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PROJECT COMPELTION REPORT FOR JP-5 FUEL SYSTEM CLOSURE AND REMEDIAITON SITE 325 NSA PANAMA CITY FL
2/1/1996
BECHTEL ENVIRONMENTAL, INC

008893

PROJECT COMPLETION REPORT

FOR

JP-5 FUEL SYSTEM CLOSURE AND REMEDIATION

UNDER DELIVERY ORDER 0007

AT SITE 325

COASTAL SYSTEMS STATION

PANAMA CITY, FLORIDA

Prepared for

DEPARTMENT OF THE NAVY
SOUTHERN DIVISION
NAVAL FACILITIES ENGINEERING COMMAND

Under Contract No. N62467-93-D-0936

By

BECHTEL ENVIRONMENTAL, INC.
OAK RIDGE, TN

FEBRUARY 1996

Bechtel Job No. 22567

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EXECUTIVE SUMMARY

This report describes the Response Action performed by Bechtel Environmental Inc. (Bechtel) to remediate Site 325 at Coastal Systems Station Panama City, Florida. The work was performed under Delivery Order 0007. The site location is shown in Figure 1. The objective of this work was to perform an Initial Remedial Action removing petroleum LNAPL and petroleum contaminated soil, plus closure of an out-of-service JP-5 tank farm and hydrant system. The JP-5 system is being replaced with an aboveground tank farm and a new double-contained pipeline system to serve the helipad. The system that was closed consisted of a pumping station and tank farm [three 20,000-gal underground storage tanks (USTs)], two fuel filter/separator systems each with 300-gal oily water USTs, and a helicopter refueling station including approximately 550-ft supply and return pipelines and a pantograph/hose reel.

Bechtel subcontracted the UST and pipeline removal work to Florida Petroleum Services. Contaminated soil was hauled to a thermal treatment unit in Pensacola operated by HUDSCO, Inc.

The remedial actions were based on a Letter Report, "Technical Memorandum for Site 325, Coastal Systems Station (CSS) Panama City, Florida," as prepared by ABB-ES, dated June 1, 1994, and a Technical Memorandum, "Draft Initial Remedial Action Sites 325 and 278, Coastal Systems Station (CSS) Panama City, Florida," as prepared by ABB-ES, dated August 26, 1994.

1.0 PROBLEM STATEMENT

Compliance monitoring wells had been installed in the four corners of the tank farm at Site 325 at the Coastal Systems Station (CSS) Panama City, Florida, in 1989, as part of the Navy Release Detection Program. Petroleum contaminated soil was found during the installation of the wells, and the resulting site investigation revealed the presence of an light non-aqueous phase liquids (LNAPL) in the vicinity of the tank farm.

The CLEAN contractor, ABB-ES, initiated a contamination assessment at the site in September 1992. Groundwater samples were found to exceed state target levels for benzene and naphthalene and tightness test were performed on the 20,000-gal underground storage tanks (USTs) and the associated piping. A leak was discovered in the underground piping associated with UST #2, which was immediately removed from service.

An Initial Remedial Action (IRA) was planned to remove the LNAPL and some of the excessively contaminated soil. Before the IRA began, the decision was made to close the JP-5 tank farm and helicopter refueling system and to replace them with new double-walled tanks and piping to be in full compliance with current regulatory requirements.

The Response Action described in this report included the removal of a JP-5 pumping station and tank farm, a pump/truck refueling station, and a helicopter refueling station. The construction zone extended from the tank farm beneath a concrete paved area for 550 ft to the helicopter refueling hydrant station, cutting across the runway between the active helicopter hangar and the flightline. The flightline was required to be operational throughout the demolition and restoration, and access from the hangar to the helipad by helicopters was to be maintained at all times. Foreign object debris (FOD) was to be controlled at all times so that flight operations could be scheduled at a moment's notice.

2.0 SCOPE OF WORK

The above-ground system components other than single wall piping were tagged and prepared for storage before transfer to the public works center (PWC) for reuse in the new JP-5 system. NAVFAC and PWC drawings showing the salvaged system components are in Appendix A of this report. The pumping station and tank farm included three 20,000-gal single-wall fiberglass USTs with vertical turbine pumps; a tank dewatering system consisting of a fuel filter/separator and a 300-gal UST for oily water from the filter/separator, a truck unloading station; and fuel transfer pumps.

A buried pipeline system connected the pump/truck refueling station across the flightline in front of the helicopter hangar to the helicopter refueling station with 4-in. supply and return lines, as shown in Figure 1. The helicopter refueling station included a filter/separator, a 300-gal oily water UST, and hose reel/pantograph system. This work is described in greater detail in the *Remediation Work Plan, Panama City Delivery Order 0007, Task 1, Site 325.*

2.1 MOBILIZATION

Mobilization activities were initiated on May 31, 1995. These activities included delivery to the job site and work areas all construction equipment, tools, materials, supplies, miscellaneous articles, office trailer, and work force. All site work was performed by Florida Petroleum Services (FPS) of Orlando, Florida.

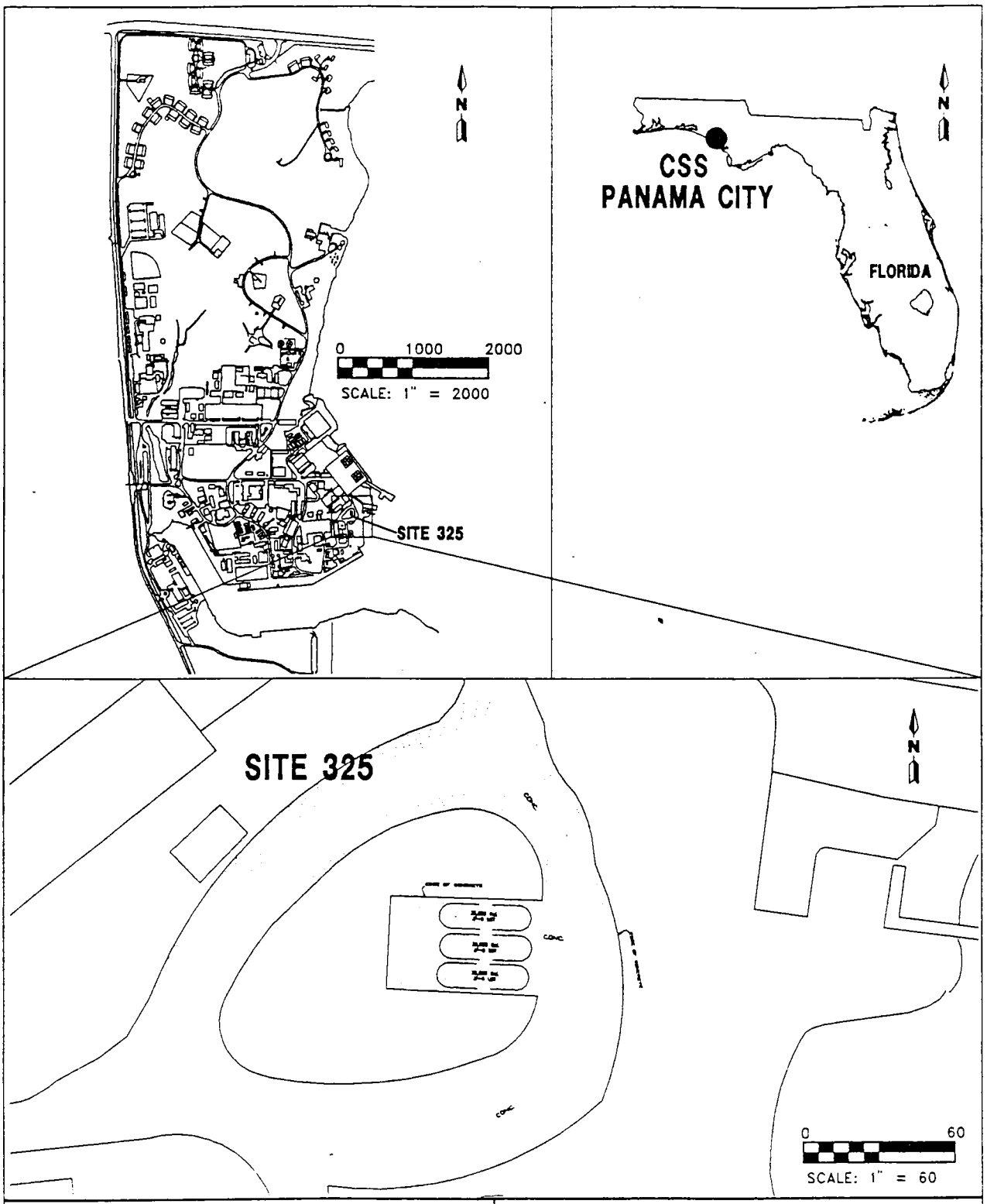

FIGURE 1
LOCATION MAP

TECHNICAL MEMORANDUM
SITE 325

COASTAL SYSTEMS CENTER
PANAMA CITY, FLORIDA

325LOC/06/01/94

2.2 QUANTITIES OF MATERIALS HANDLED/REMEDIATED

Table 1 summarizes the quantities of materials excavated, treated, disposed, or recycled and the quantities of materials procured, backfilled, and placed for site restoration

2.2.1 Waste Management

2.2.1.1 Water treatment

The best available information indicated that the three 20,000-gal USTs had been filled with water for ballast when the system was removed from service. Only about 10,500 gal of ballast water was encountered in the three tanks, however. Approximately 10,810 gal of petroleum contact water comprised of ballast water and decon water was delivered to the onsite oily water separators; none was disposed of offsite. No groundwater was removed from the excavation because there was no floating free product encountered, although the excavation was allowed to remain open for an extra day to allow free product accumulation.

2.2.1.2 Sludge removal

Only minor amounts of sludge were encountered in the tanks. This sludge was vacuumed from the tanks along with the decon water, and delivered to the onsite oily water separator for disposal.

2.2.2 Quantities of Soil Removed

The scope of the IRA for the soil associated with the JP-5 system closure and LNAPL recovery required the removal and thermal treatment of excessively contaminated soil with greater than 50 ppm VOCs as determined by flame ionization detector (FID) readings performed according to the Florida Administrative Code (FAC) 62-770.200(2). The limits of excavation were defined as only that soil which was necessary for removal of the tanks and pipelines, down to but not deeper than the water table. No over-excavation of excessively contaminated soil was to be performed because the presence of groundwater contamination dictates that further remediation of the soil and groundwater will be required at this site.

VOC readings were performed by ABB-ES concurrently with the excavation to determine which soil was excessively contaminated. Efforts were made to minimize the amount of non-excessively-contaminated soil that was stockpiled for thermal treatment.. The original estimate was for 600 yd^3 of excessively contaminated soil to be excavated and treated. Approximately 554 tons (396 yd^3) of petroleum contaminated soil with > 50 ppm VOC were excavated along the AVGAS trench and treated offsite at the HUDSCO, Inc. thermal desorption facility in Pensacola.

2.2.3 Quantity Of Backfill

Backfill material came from both offsite borrow pits and from the UST and pipeline excavations. Approximately 848 yd^3 of clean soil from offsite sources and approximately 394 yd^3 of stockpiled soil from the site excavation was backfilled and compacted.

Table 1
Summary of Quantities Excavated, Treated, or Restored

Waste Stream or Material Handled	Estimated Quantity of Material to be Excav./Removed	Actual Quantity of Material Excavated	Quantity of Material Disposed Offsite	Transporter	Thermal Treatment, Disposal Facility or Material Source	Quantity of Soil Thermally Treated	Restoration Material Quantity
Soil Excavation (Contaminated and Uncontaminated)	950 yd^3	394 yd^3					394 yd^3
Contaminated Soil	600 yd^3	396 yd^3 (554.02 tons per invoice)		GFD Inc. Pensacola, FL	HUDSCO, Pensacola, FL FDEP A017-217 356 FDEP AC17-23 7356	554.02 tons	
Ballast Water	60,000 gal		10,810 gal	Florida Petroleum Services EPA ID No. FLD 984200881 Orlando, FL	CSS Panama City PWC		
Concrete Rubble	190 yd^3	162 yd^3	162 yd^3	Hall Septic Tank Services Panama City, FL	Hall Septic Tank Services Panama City, FL		
Pipeline Debris	1,100 ft	1,045 ft	1,045 ft	Hall Septic Tank Services Panama City, FL	Hall Septic Tank Services Panama City, FL		
JP-5 Pipeline Debris	600 ft	922 ft	922 ft	Hall Septic Tank Services Panama City, FL	Hall Septic Tank Services Panama City, FL		
Free Product/Fuel Recovery and Disposal	5,000 gal	1,381 gal	1,381 gal	Florida Petroleum Services EPA ID No. FLD 984200881 Orlando, FL	CSS Panama City PWC		
Stone Placement	350 tons			Hall Septic Tank Services Panama City, FL	Hall Septic Tank Services Panama City, FL		365 tons
Backfill Placement	1,275 yd^3			Hall Septic Tank Services Panama City, FL	Hall Septic Tank Services Panama City, FL		897 yd^3
Concrete Placement	2 yd^3			Florida Mining, Panama City, FL	Florida Mining Panama City, FL		62.5 yd^3

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2.3 DEMOLITION

2.3.1 Demolition of Concrete Pavement

The pipeline demolition zone is shown in Figure 2. A 6-ft wide strip of 8- to 12-in. thick concrete pavement was removed from the pipeline trench and a 40 ft by 40 ft 6-in. thick concrete pad was removed from above the three 20,000-gal USTs. The pavement above the pipelines was cut with a concrete saw to minimize generation of construction debris and to provide a finished edge for pavement replacement. Pavement was disposed in an offsite construction debris landfill. Approximately 190 yd^3 of concrete rubble was estimated for removal, but only 162 yd^3 from the pad covering the USTs and in the pavement covering the pipelines.

2.3.2 Removal of JP-5 Pipeline

The buried 4-in. supply and return pipelines from the trench were removed and disposed as construction debris. Active utilities in the remediation zone were worked around and supported as required to maintain their integrity; these were primarily runway lighting for the helipad area. Approximately 1,045 ft of 4-in. pipeline and 922 ft of 2- and 3-in. pipeline were removed from the tank farm, pump/truck refueling station, and helipad supply and return lines.

2.3.3 Disposal of Construction Debris

Approximately 162 yd^3 of concrete and 1,967 ft of abandoned pipeline debris were transported by Hall Septic Tank Services, Panama City, Florida.

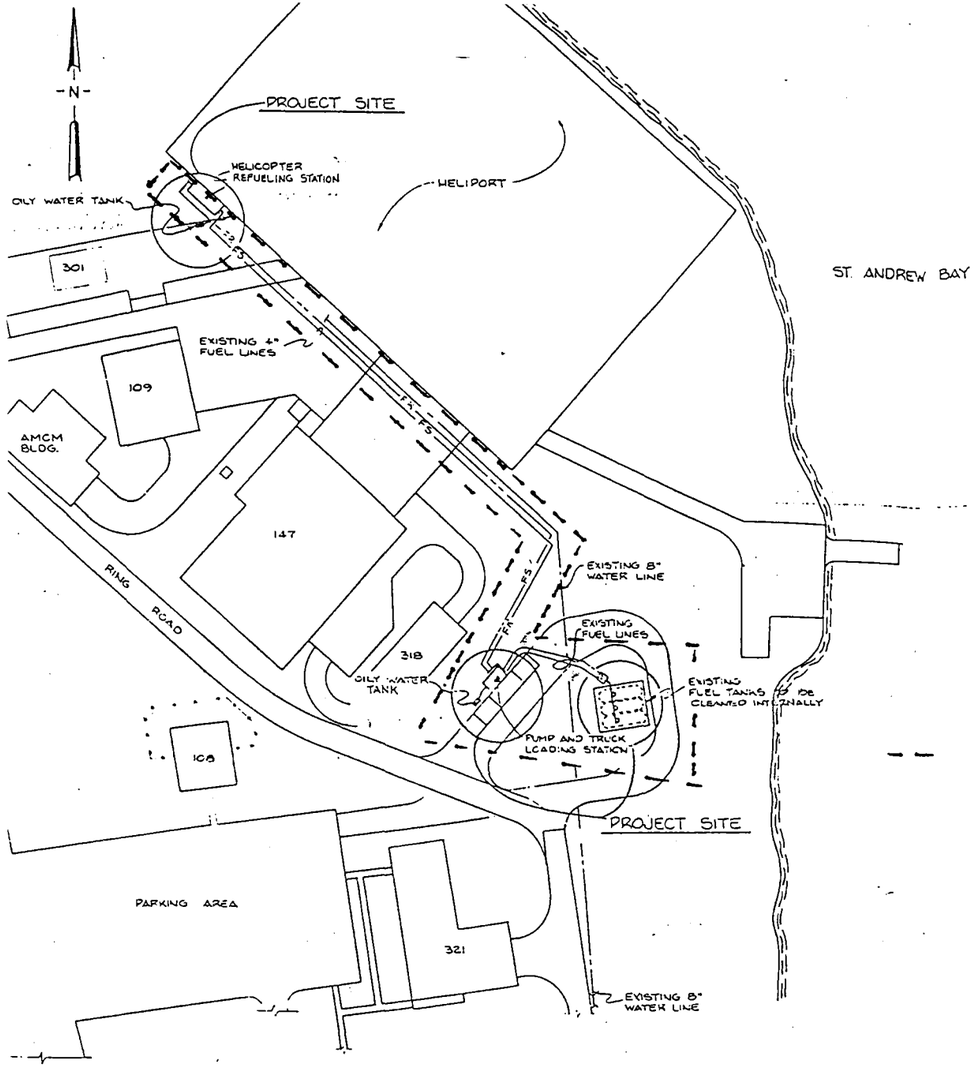
2.4 SYSTEM INSTALLATION (N/A - Interim Removal Actions Only)

2.5 REMEDIAL TECHNOLOGY DESCRIPTION

The remediation method selected for the petroleum contaminated soil excavated for the IRA was low temperature thermal desorption. FAC 62-775 provides specifications for thermal treatment of petroleum contaminated soils, which were followed as requirements for the performance of this work. The estimated quantity of soil requiring thermal desorption was 600 yd^3 (840 tons).

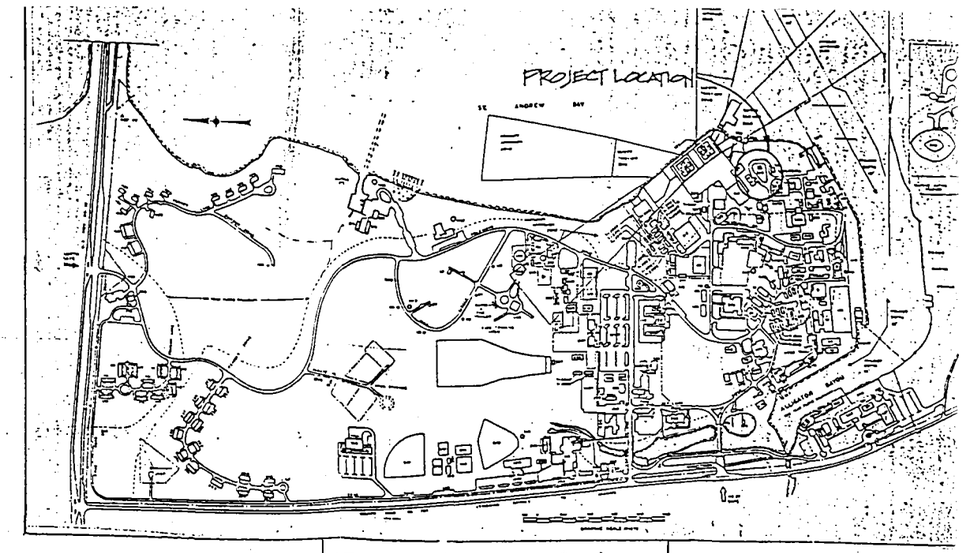
Bechtel issued a subcontract to HUDSCO, Inc. of Pensacola, Florida to provide off site low temperature thermal desorption for treatment of the soil. Approximately 554 tons of soil was transported and successfully treated by HUDSCO, Inc.

Samples were collected by ABB for headspace analysis concurrently with the progress of pipeline excavation. Soil with VOC readings > 50 ppm was excavated and stockpiled on site during the project. Contaminated soil was placed on plastic inside a bermed area and covered with plastic to prevent spread of contamination by rainwater.



SITE PLAN
SCALE: 1" = 50'

Demolition Zone



PROJECT LOCATION MAP

INDEX OF DRAWINGS		
SHEET NO	NCSC DRAWING NO.	TITLE
1	M-4330	COVER SHEET & INDEX OF DRAWINGS
2	M-4331	PIPING SCHEMATIC
3	M-4332	PUMP STA. & FUEL TANK DETAILS
4	M-4333	HELICOPTER REFUEL STA. DETAILS
5	M-4334	EXISTING CONTROL SYSTEM SCHEMATIC
6	M-4335	EXISTING CONTROL SYSTEM DETAILS

FIGURE 2: DEMOLITION ZONE

RECORD DRAWINGS
INSPECTOR: FRED PECKHAM
CHECKED BY:
INSP. DATE: 7-27-91
BLDG. NO.: FUEL SYSTEM

SATISFACTORY TO: DATE:
SATISFACTORY TO: DATE:
SATISFACTORY TO: DATE:
SATISFACTORY TO: DATE:

NCSC PW DWG. NO. M-4330
DESIGN BY C E PREBLE DATE 5/10/90
DRAWN BY B CANTRELL 7/11/90
CHECKED BY 10/9/90
APPROVED 10/11/90

DEPARTMENT OF THE NAVY
NAVAL COASTAL SYSTEMS CENT
PANAMA CITY, FLORIDA

MAINTENANCE & REPAIR
IR-5 REFUELING SYSTEM
COVER SHEET - INDEX OF DRAWINGS

SIZE F
CODE IDENT NO
NAVFAC DRAWING NO. 5188863

2.6 GENERAL SITE RESTORATION AND DEMOBILIZATION

2.6.1 Site Restoration

Crushed stone was placed in the tank pit up to an elevation above the water table. Geotechnical filter fabric was placed on top of the crushed stone before soil backfilling, to prevent subsidence in the area, since the possibility existed for installation of an aboveground storage tank system at this same location. Native soil that had been stockpiled from the excavations (not excessively contaminated) and clean granular fill was placed in the excavations and compacted. Unpaved areas were brought to grade and contoured, as directed by the Navy technical representative (NTR). Concrete pavement was replaced using construction specifications provided by the NTR. Approximately 5,063 ft^2 of concrete with an average thickness of 4 in. was replaced in the roadway and the areas where the pipeline was removed. Fiber reinforced concrete was used, and construction joints were provided to facilitate future removal of the paving when the new double walled pipelines are installed. Approximately 848 yd^3 of clean granular fill from an offsite source was backfilled and compacted.

2.6.2 Demobilization

Demobilization included decontamination of equipment, cleaning work areas, removing equipment from the work site, and removing drummed materials.

3.0 MAJOR PROBLEMS ENCOUNTERED/SOLUTIONS ADOPTED/ LESSONS LEARNED

3.1 UNMARKED UTILITIES

During the excavation of the USTs at the tank farm, several concrete-filled traffic barrier posts were removed. One of these posts was dropped intentionally onto the ground surface to break off the concrete attached around the base of the post. The impact on the ground surface caused a crack in a water supply line that had not been located and marked. Water sprayed out of the ground. This line was not shown on existing drawings, and no isolation valves could be located by base personnel at the time.

Solution: The NTR was notified first; the pipeline was excavated and found to be an 8-in. asbestos cement pipeline that supplied both potable water and fire protection. Since valves could not be located, other water mains were opened to reduce the local water pressure. The excavation beneath the pipe was enlarged to keep the water level in the excavation below the crack in the pipe, and water was pumped from the excavation as required, so that there was no possibility of contaminating the water in the pipeline. A stainless steel Dresser clamp patch was obtained from the local water utility, and installed by FPS personnel to stop the leak. Alternative methods of enhancing the repair to make it more permanent were suggested to the NTR, but the decision was made by CSS personnel to not disturb the pipeline any further, and to carefully backfill and compact soil around the repaired section of pipe.

Hand excavation was used extensively, and numerous other unidentified drain lines, pipes, and power conduits were encountered, including both active and previously abandoned utilities.

Lesson Learned: For future excavation work at similar sites, use an electonic pipe and cable locator to scan and locate utilities before digging.

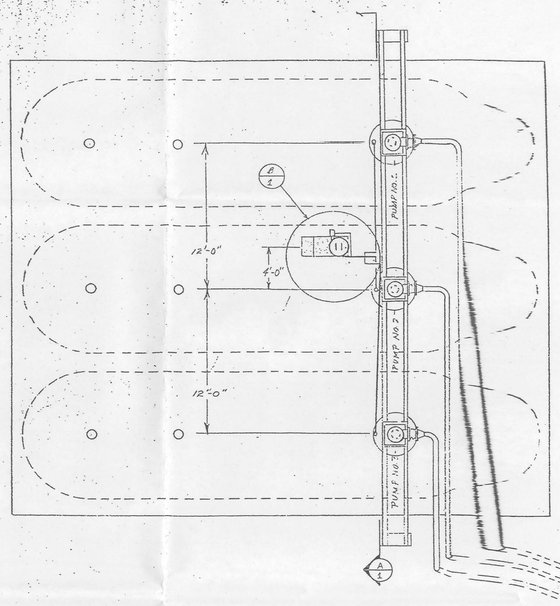
3.2 DAILY FLIGHT OPERATIONS

Because the helipad was an active facility and the possibility existed for flight operations to occur at any time around the clock, flight operations personnel insisted that access be maintained at all times for helicopters to traverse the runway from the helipad to the hangar. Also, for the same reason, the area had to be kept clean of FOD at all times because of the hurricane force winds that are produced when a helicopter takes off and lands The 6-ft wide pipeline trench to the helicopter refueling station crossed directly between the hangar and the helipad.

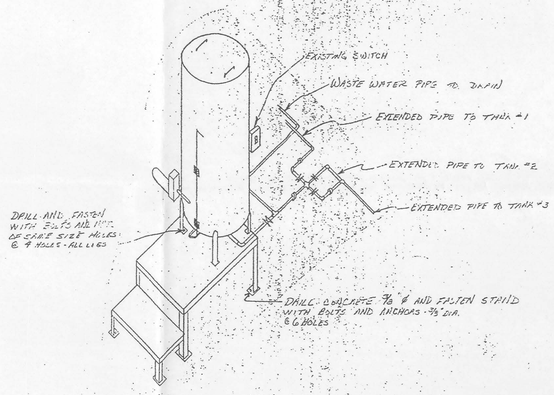
Solution: Daily coordination between Bechtel, the subcontractor, and the flight activities coordinator was mandatory. The pavement removal and replacement was coordinated to occur in sections to minimize the presence of an open trench. In the area immediately in front of the hangar, pavement replacement was scheduled and alternated so that there was always a fully competent 30-ft wide paved area for helicopter traffic to traverse. Access for helicopter traffic was successfully maintained at all times. The subcontractor was required to designate a person for continuous FOD cleanup and control, and as a result there were no instances of FOD problems.

APPENDIX A

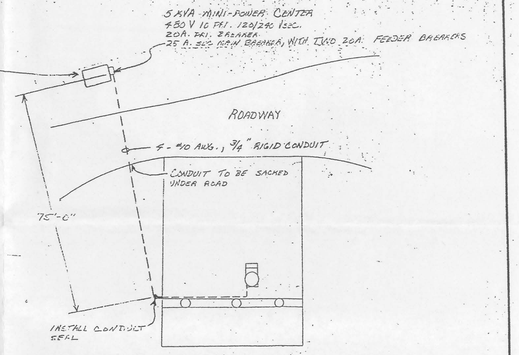
AS-BUILTS



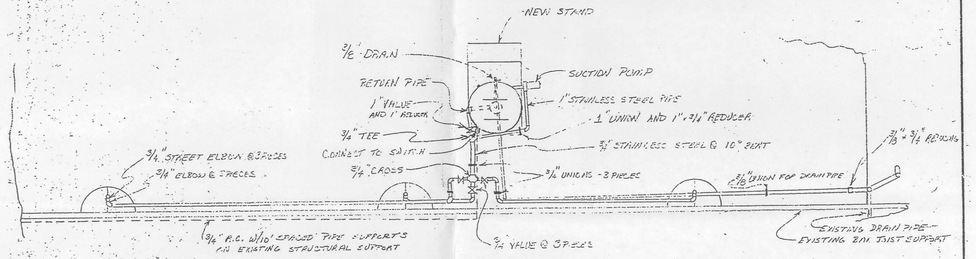
TANK PAD PLAN
NOT TO SCALE



DETAIL B/1
NOT TO SCALE

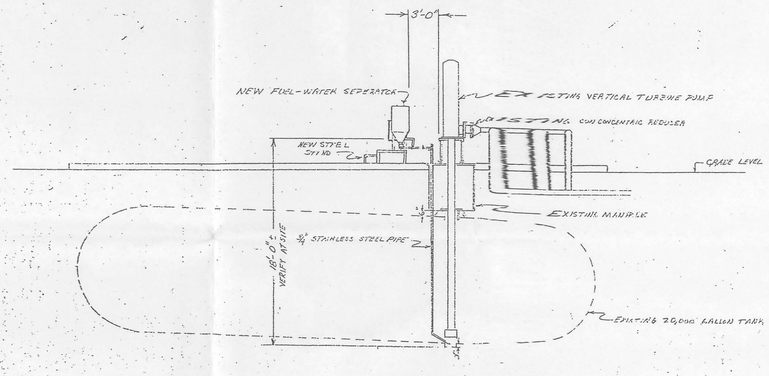


ELECTRICAL HOOK-UP
NOT TO SCALE

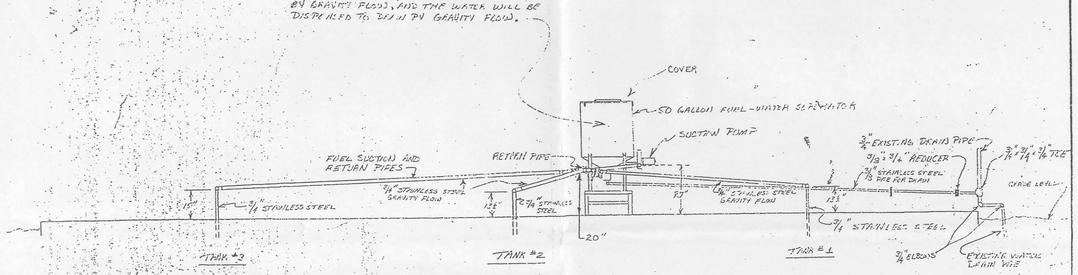


TOP VIEW
SCALE 1/2" = 1'-0"

NOTE
THE SUMP SEPERATOR REQUIRES A SUCTION PUMP WITH CAPACITY OF MINIMUM OF 10 FEET HEAD. THE FUEL WILL BE RETURNED TO TANKS BY GRAVITY FLOW, AND THE WATER WILL BE DISPENSED TO DRAIN BY GRAVITY FLOW.



TANK PAD ELEVATION
SCALE 1/4" = 1'-0"



SECTION A/1
SCALE 1/4" = 1'-0"

NCSC PW DWG. NO. M-2930		DEPARTMENT OF THE NAVY NAVAL COASTAL SYSTEMS CENTER PANAMA CITY, FLORIDA
DESIGN BY Pat Hayes	DATE 6-28-82	
DRAWN BY Pat Hayes	6-28-82	JP-5 FUEL SEPERATOR LOCATIONS AND PIPE LAYOUT AND ELECTRICAL HOOK-UP
CHECKED BY		
APPROVED Paul R. Hellier	DATE 6/28/82	SIZE F / CODE INDENT NO. / NAVFAC DRAWING NO.
OFFICER IN CHARGE		SCALE SHOWN / SPEC / CONSTR CONTR NO. / SHEET 1 OF 1

U. S. GOVERNMENT PRINTING OFFICE 1979-643-326

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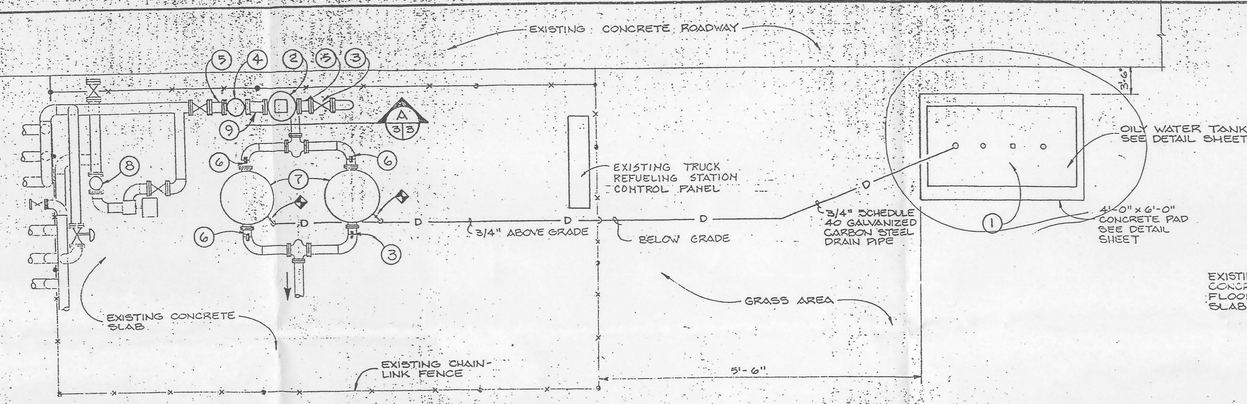
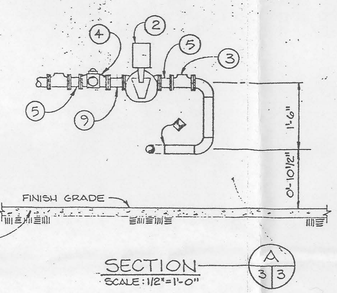


PUMP AND TRUCK REFUELING STATION PLAN

NOT TO SCALE



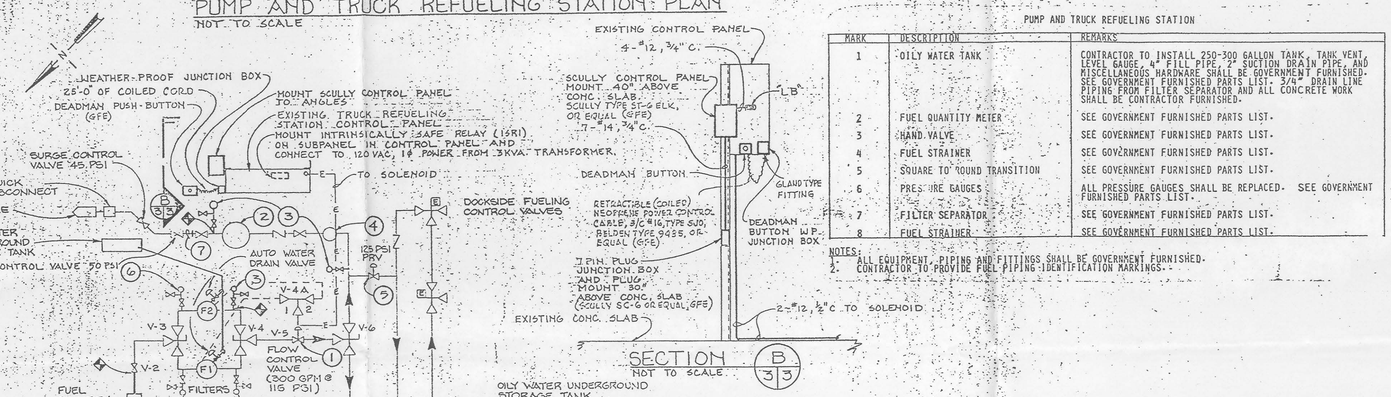
SECTION A/3 3

SCALE: 1/2" = 1'-0"

PUMP AND TRUCK REFUELING STATION

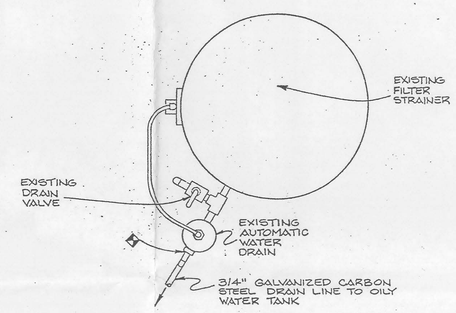
MARK	DESCRIPTION	REMARKS
1	OILY WATER TANK	CONTRACTOR TO INSTALL 250-300 GALLON TANK, TANK VENT, LEVEL GAUGE, 4" FILL PIPE, 2" SUCTION DRAIN PIPE, AND MISCELLANEOUS HARDWARE SHALL BE GOVERNMENT FURNISHED. SEE GOVERNMENT FURNISHED PARTS LIST. 3/4" DRAIN LINE PIPING FROM FILTER SEPARATOR AND ALL CONCRETE WORK SHALL BE CONTRACTOR FURNISHED.
2	FUEL QUANTITY METER	SEE GOVERNMENT FURNISHED PARTS LIST.
3	HAND VALVE	SEE GOVERNMENT FURNISHED PARTS LIST.
4	FUEL STRAINER	SEE GOVERNMENT FURNISHED PARTS LIST.
5	SQUARE TO ROUND TRANSITION	SEE GOVERNMENT FURNISHED PARTS LIST.
6	PRESSURE GAUGES	ALL PRESSURE GAUGES SHALL BE REPLACED. SEE GOVERNMENT FURNISHED PARTS LIST.
7	FILTER SEPARATOR	SEE GOVERNMENT FURNISHED PARTS LIST.
8	FUEL STRAINER	SEE GOVERNMENT FURNISHED PARTS LIST.

NOTES:
1. ALL EQUIPMENT, PIPING AND FITTINGS SHALL BE GOVERNMENT FURNISHED.
2. CONTRACTOR TO PROVIDE FUEL PIPING IDENTIFICATION MARKINGS.



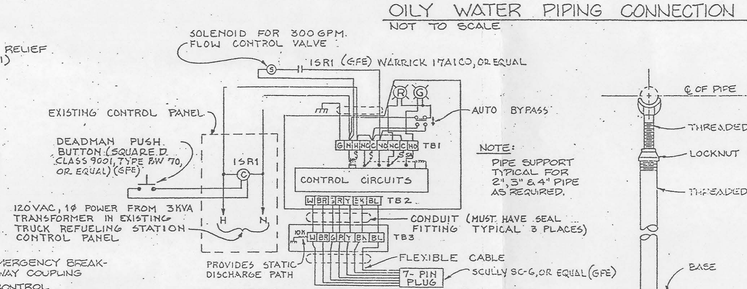
SECTION B/3 3

NOT TO SCALE

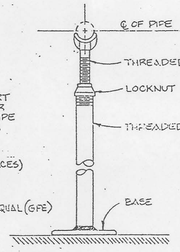


OILY WATER PIPING CONNECTION DETAIL

NOT TO SCALE



NOTE:
PIPE SUPPORT TYPICAL FOR 2", 3" & 4" PIPE AS REQUIRED.



CONTROL CIRCUIT SCHEMATIC TRUCK REFUELING STATION

NOT TO SCALE

ADJUSTABLE PIPE SUPPORT

NOT TO SCALE

GRAPHIC SCALE

1/2" = 1'-0"

2' 0 2 4'

FUEL SYSTEM PIPING SCHEMATIC JP-5 REFUELING SYSTEM

NOT TO SCALE

NOTES: 1. (GFE) = GOVERNMENT FURNISHED EQUIPMENT.
2. ALL CONDUIT CONNECTIONS BELOW 13" ABOVE GRADE SHALL BE MADE WITH EXPLOSION-PROOF FITTINGS FOR CLASS I, GROUP D, DIVISION 2 HAZARDOUS LOCATIONS.

FUEL SYSTEM PIPING SCHEMATIC JP-5 REFUELING SYSTEM

MARK	DESCRIPTION	REMARKS
1	FLOW CONTROL VALVE (V-5)	SEE GOVERNMENT FURNISHED PARTS LIST.
2	RELAXATION TANK	SEE GOVERNMENT FURNISHED PARTS LIST.
3	PRESSURE GAUGE AND SAMPLING	EXISTING PRESSURE GAUGES SHALL BE REPLACED AND NEW GAUGES GOVERNMENT FURNISHED.
4	FUEL QUALITY MONITOR	SEE GOVERNMENT FURNISHED PARTS LIST.
5	PRESSURE RELIEF VALVE	SEE GOVERNMENT FURNISHED PARTS LIST.
6	PRESSURE GAUGES	ALL PRESSURE GAUGES SHALL BE REPLACED. SEE GOVERNMENT FURNISHED PARTS LIST.
7	FLEX HOSE WITH EQUIPMENT	2-1/2" FLEX HOSE WITH END REGULATOR AND TWO SURGE CONTROL VALVES, ONE SET FOR 45 PSI MAXIMUM AT NOZZLE END AND ONE SET FOR 50 PSI MAXIMUM AT HOSE CONNECTION END. PROVIDE QUICK DISCONNECT BEFORE NOZZLE. SEE GOVERNMENT FURNISHED PARTS LIST.

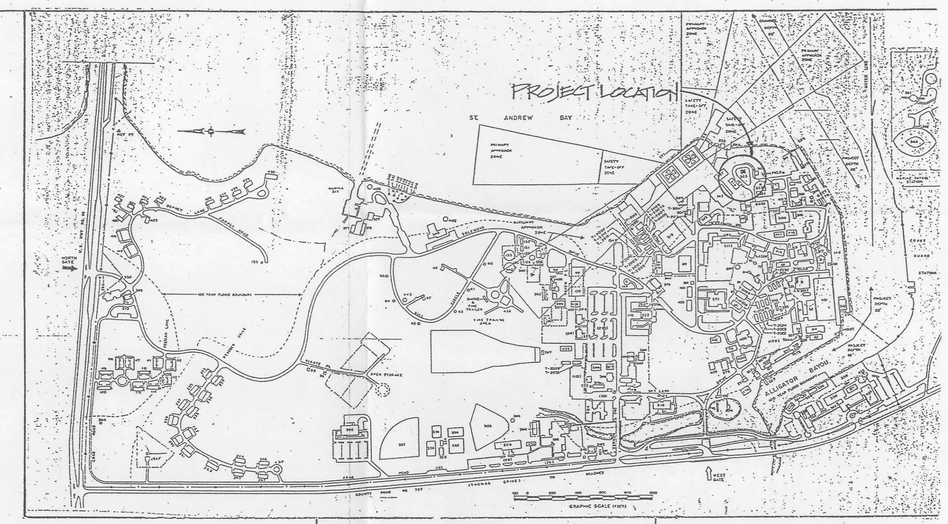
NOTES:
1. ALL EQUIPMENT, PIPING AND FITTINGS SHALL BE GOVERNMENT FURNISHED.
2. CONTRACTOR TO PROVIDE FUEL PIPING IDENTIFICATION MARKINGS.

NCSC P.W. DWG. NO. M2478		DEPARTMENT OF THE NAVY NAVAL COASTAL SYSTEMS CENTER PANAMA CITY, FLORIDA	
DESIGN BY H.M. YONGE	DATE 11/3/83		
DRAWN BY D.W. ROBINSON	11/3/83	JP-5 REFUELING SYSTEMS MODIFICATIONS PUMP/TRUCK REFUELING STATION PLAN, SECTION, SCHEMATIC & DETAILS	
CHECKED BY H.M. YONGE	11/3/83		
APPROVED	DATE	SIZE / CODE INDENT NO.	NAVFAC DRAWING NO. 5084472
OFFICER IN CHARGE		SCALE AS SHOWN	CONSTR CONTR NO. N62467-84-C-2809 SPEC 0684-2809 SHEET 3 OF 3

U.S. GOVERNMENT PRINTING OFFICE 1979-643-288

008

SITE PLAN
SCALE: 1" = 50'



PROJECT LOCATION MAP

INDEX OF DRAWINGS

SHEET No.	NCSC DRAWING No.	TITLE
1	M-4330	COVER SHEET & INDEX OF DRAWINGS
2	M-4331	PIPING SCHEMATIC
3	M-4332	PUMP STA. & FUEL TANK DETAILS
4	M-4333	HELICOPTER REFUEL STA. DETAILS
5	M-4334	EXISTING CONTROL SYSTEM SCHEMATIC
6	M-4335	EXISTING CONTROL SYSTEM DETAILS

AS-BUILT

008893

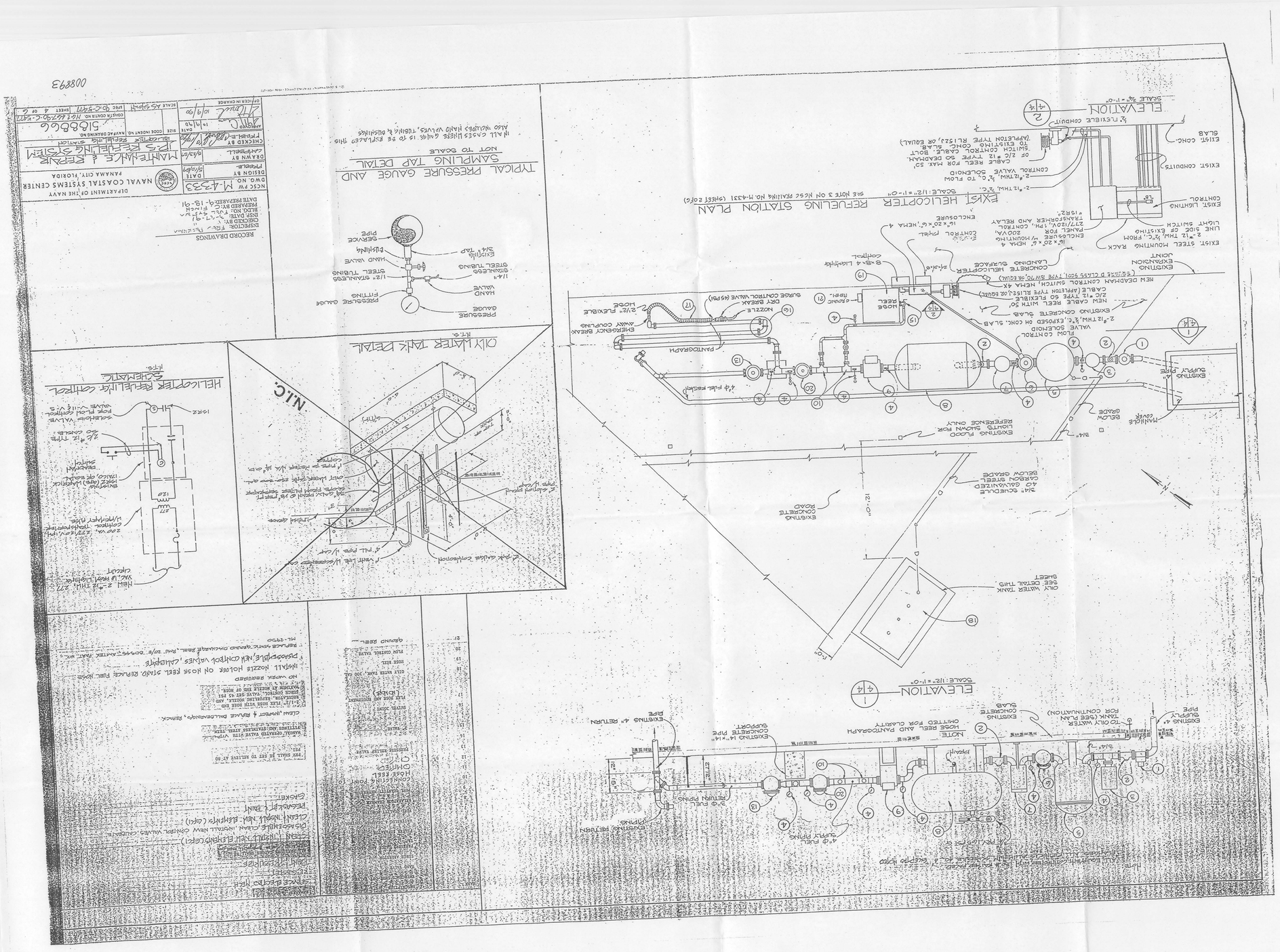
AS-BUILT OF SITE 325, CSS PANAMA CITY

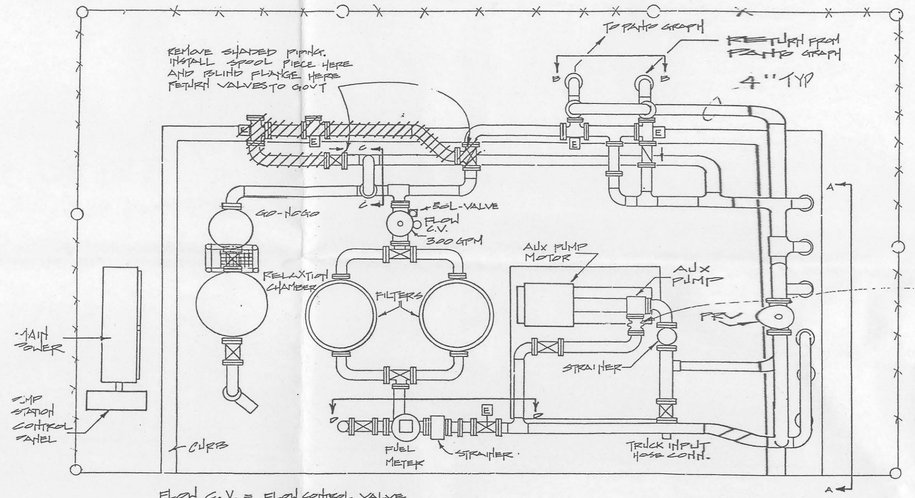
Appendix A of Project Completion Report for CSS Panama City, Florida	Prepared by Bechtel for the Department of the Navy, Southern Division	February 1996

RECORD DRAWINGS
INSPECTOR: FRED. BECKHAM
CHECKED BY: 4
INSP. DATE: 3-27-91
BLDG. NO.: FUEL SYSTEM
PREPARED BY: C. FINCH
DATE PREPARED: 9-18-91

SATISFACTORY TO: [illegible] DATE: 21 Sept 90
SATISFACTORY TO: [illegible] DATE: 21 Sept 90
SATISFACTORY TO: [illegible] DATE: 26 Sep 90
SATISFACTORY TO: [illegible] DATE: 18 Sep 90

NCSC PW DWG. NO. M-4330		DEPARTMENT OF THE NAVY NAVAL COASTAL SYSTEMS CENT PANAMA CITY, FLORIDA
DESIGN BY C B PRESBELE	DATE 5/10/89	
DRAWN BY B CAMPBELL	7/11/89	MAINTENANCE & REPAIR JP5 REFUELING SYSTEM COVER SHEET & INDEX OF DRAWING
CHECKED BY C B PRESBELE	10/9/90	
APPROVED [illegible] OFFICER IN CHARGE	DATE 10/9/90	SIZE F; CODE IDENT NO.; NAVFAC DRAWING NO. 5188863; CONSTR CONTR NO. N62467-90-C-59; SCALE AS SHOWN; SPEC 06-90-5477; SHEET 1 OF 6


EXIST HELICOPTER REFUELING STATION PLAN
SCALE: 1/2" = 1'-0"
ELEVATION
SCALE: 1/2" = 1'-0"
ELEVATION
SCALE: 1/2" = 1'-0"
TYPICAL PRESSURE GAUGE AND SAMPLING TAP DETAIL
NOT TO SCALE
OLD WATER TANK DETAIL
N.T.S.
HELICOPTER REFUELING CONTROL SCHEMATIC
N.T.S.
RECORD DATAINGS
DEPARTMENT OF THE NAVY
NAVAL COASTAL SYSTEMS CENTER
PANAMA CITY, FLORIDA
M-4333
MAINTENANCE & REPAIR
TRS REFUELING SYSTEM
51888



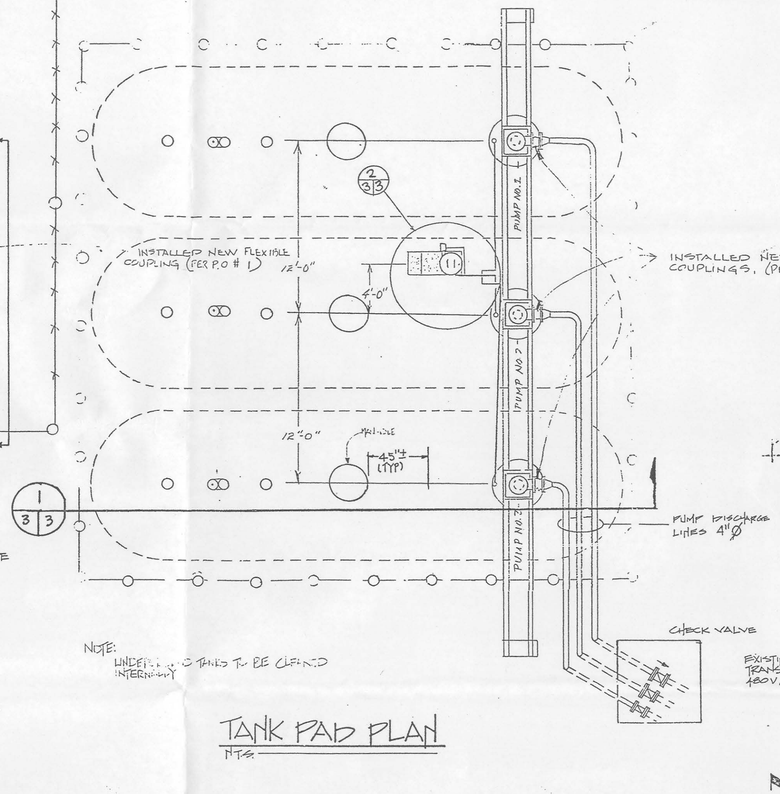
FLOW C.V. = FLOW CONTROL VALVE 300 G.P.M.

SEE NOTE 3 ON NCSC DWG M-4331 (SHEET 2)

HAND VALVE
CHECK VALVE
PRV PRESS RELIEF
ELECTRICALLY OPERATED VALVE

JP-5 PUMP STATION

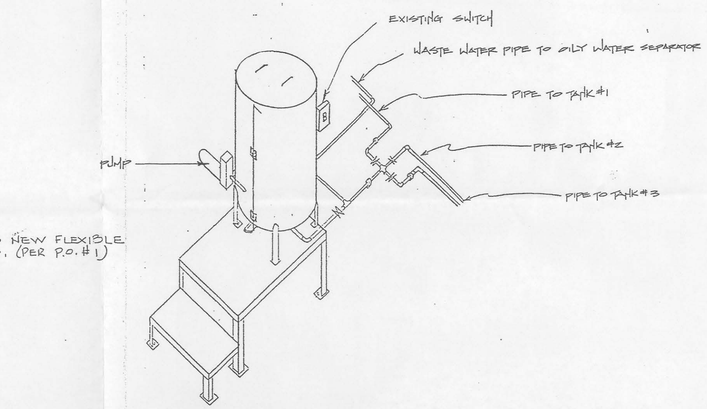
SCALE: 1/2" = 1'-0"



TANK PAD PLAN

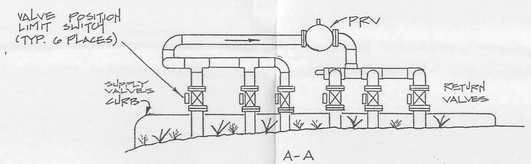
N.T.S.

NOTE:
UNDERGROUND TANKS TO BE CLEANED INTERNALLY

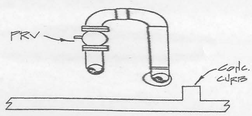


MAINT EXIST. TANK DEWATERING SYSTEM DETAIL

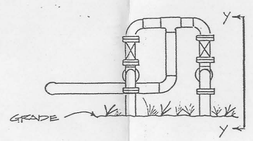
N.T.S.



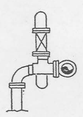
A-A



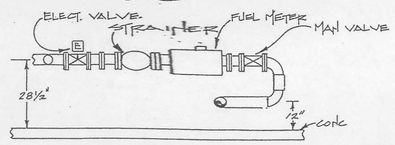
C-C



B-B



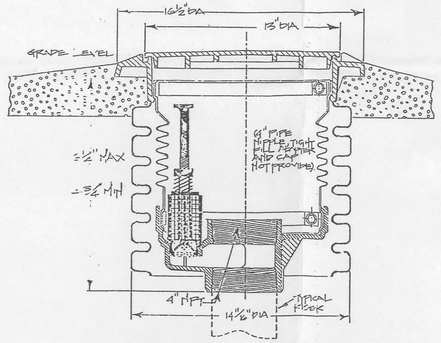
Y-Y



D-D

ELEVATIONS - PUMP STATION

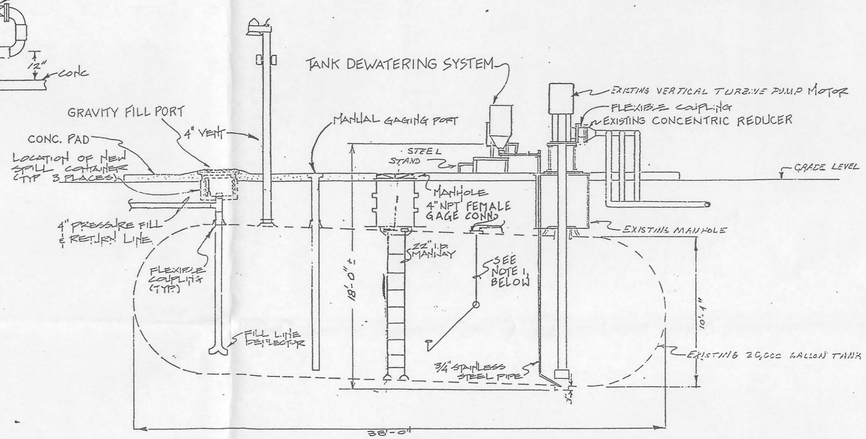
SCALE: 1/2" = 1'-0"



SPILL CONTAINER

N.T.S.

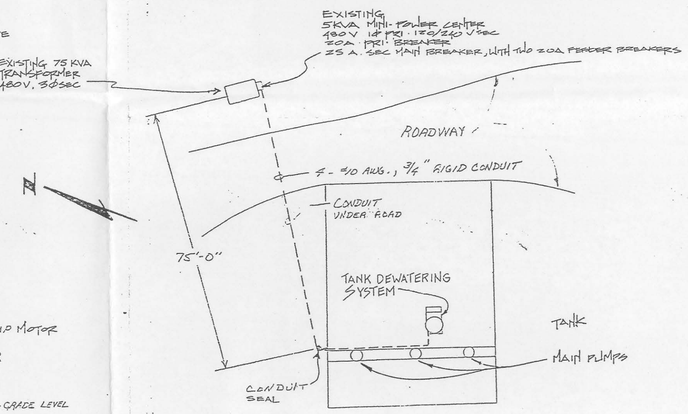
1. INSTALL EPA APPROVED SPILL CONTAINMENT DEVICE AT EACH TANK FILL CONNECTOR
2. REMOVE EXISTING FILL CONNECTION TO PRESSURE FILL LINE - INSTALL PROPERLY SIZED 4" RISER AND INSTALL SPILL CONTAINER. PROVIDE PROPERLY SIZED NIPPLE FITTED WITH EXISTING TIGHT FILL ADAPTER.



TANK PAD SECTION

N.T.S.

NOTE:
1) REMOVE HYDRO-MECHANICAL GAGE SYSTEM AND INSTALL NEW ELECTRONIC GAGE SYSTEM PER SPECIFICATIONS.



EXISTING ELECTRICAL HOOK-UP TANK DEWATERING SYSTEM

N.T.S.

RECORD DRAWINGS
INSPECTOR: FRED DECKWAY
CHECKED BY: "
INSP. DATE: 9-27-91
BLDG. NO.: F 1/2 - 5 - 9-27-91
PREPARED BY: C. FINELLI
DATE PREPARED: 9-13-91

NCSC PW DWG. NO. M-4332	DEPARTMENT OF THE NAVY — NAVAL COASTAL SYSTEMS CENTER — PANAMA CITY, FLORIDA
DESIGN BY FREEBLE — DATE 5/10/89	MAINTENANCE & REPAIR JP-5 REFUELING SYSTEM — PUMPING STATION AND FUEL TANK DETAILS
DRAWN BY CANDELL — 5/23/89	
CHECKED BY FREEBLE — 10/1/90	
APPROVED — DATE 10/9/90	SIZE F — CODE INDENT NO. — NAVFAC DRAWING NO. 5188865
10/9/90 — OFFICER IN CHARGE	SCALE AS SHOWN — SPEC 90-C-5477 — SHEET 3 OF 6 — CONSTR CONTR NO. N62467-90-C-5477

U.S. GOVERNMENT PRINTING OFFICE: 1986-624-373

008893

APPENDIX B

REGULATORY FORMS/CORRESPONDENCE

008893
~~004530~~

Bechtel

Oak Ridge Corporate Center
151 Lafayette Drive
P.O. Box 350
Oak Ridge, Tennessee 37831-0350

Facsimile: (615) 220-2100

April 18, 1995

Florida Department of Environmental Regulation
Division of Waste Management
Storage Tank Regulation Section
Room 409-A Tanks
2600 Blair Stone Road
Tallahassee, FL 32399-2400

Attention: Registration

SUBJECT: Bechtel Job No. 22567
Department of the Navy Contract No. N62467-93-D-0936
STORAGE TANK REGISTRATION FORM FOR CSS PANAMA CITY
Subject Code: 7440

To Whom It May Concern:

I am submitting to you the Storage Tank Registration Form as required by FDER 17-751 to notify you of planned removal of the listed USTs for Coastal System Station Panama City. Bechtel is a remedial action contractor for the Navy and we are going to use PSSSC certified subcontractor to remove the tanks at this facility. On the form, "TBD" (To Be Determined) is used in the blanks for the contractor name and number.

Should you have any questions concerning this registration form, please call me at (615) 220-2302 or Tom Conrad at (615) 220-2205.

Sincerely,

G. P. Crotwell
Project Manager

KKL:pw:LR0092
Enclosures
cc: Mike Clayton
Coastal Systems Station
Code 0511MC
6703 W. Hwy 98
Panama City, FL 32407-7001

Drew Pinkovsky
Bay County Health and Rehabilitation Services
Environmental Health, Storage Tank Program
619 North Cove Road
Panama City, FL 32401

008893
~~004530~~

DER Form # 17-761.900(2)
Form Title Storage Tank Registration Form
Effective Date December 10, 1990
DER Application No. _____ (Assigned by DER)

Florida Department of Environmental Regulation
Twin Towers Office Bldg. • 2600 Blair Stone Road • Tallahassee, Florida 32399-2400

Storage Tank Registration Form

Please Print or Type - Review Instructions Before Completing Form

1. DER Facility ID Number: Ø38518667 2. Facility Type: F
3. New Registration ☐ New Owner Data ☐ Facility Revision ☐ Tank(s) Revision ☒
4. County and Code of tank(s) location: BAY COUNTY / 03
5. Facility Name: Coastal Systems Station
Tank(s) Address: 6703 W. Hwy 98
City/State/Zip: Panama City FL 32407-7001
Contact Person: Mike Clayton Code 0511 MC Telephone: (904) 235-5859
6. Financial Responsibility Type: C
7a. Tank(s) Owner: US NAVY (COASTAL SYSTEMS STATION)
Owner Mailing Address: 6703 W. Hwy 98
City/State/Zip: Panama City FL 32407-7001
Contact Person: Mike Clayton Telephone: (904) 235-5859
7b. New Owner Signature/Change Date: N/A Est. Removal Date = 5/18/95
8. Location (optional) Latitude: N/A °___'___" Longitude: ___°___'___" Section____ Township____ Range____

Complete One Line For Each Tank At This Facility (Use Codes - See Instructions)

Complete 9 - 16 for tanks in use; 9 - 19 for tanks out of use

9	10	11	12	13	14	15	16	17	18	19
325-A	20,000	F	1976	U	E	D	B	T	O	5/95
325-B	20,000	F	1976	U	E	D	B	T	O	5/95
325-C	20,000	F	1976	U	E	D	B	T	O	5/95
324	300	L	1984	U	C	B	X	T	O	5/95
318-B	300	L	1984	U	C	B	X	T	O	5/95

20. Bechtel Environmental Lic. Subcontractor TBD
Certified Contractor*

DPR# Licensed Subcontractor TBD
Department of Professional Regulation License Number*

*For new tank installation or tank removal

To the best of my knowledge and belief all information submitted on this form is true, accurate and complete.

G. P. CROTWELL
Print name & title of person authorized person

G P Crotwell
Signature

4/18/95
Date

008893
~~004530~~

CODES LIST FOR DER STORAGE TANK REGISTRATION FORM 17-761.900(2)

#2 - FACILITY TYPE

A. Retail station
B. Residence
C. Fuel oil distributor
D. Inland bulk petroleum storage
E. Industrial plant
F. Federal government
G. State government
H. Local government
I. County government
J. Collection station
K. Inland bulk chemical storage
L. Chemical user
M. Agricultural
N. Indian land
T. Coastal bulk petroleum or chemical storage
V. Marine fueling facility
Z. Other; please specify

#6 - FINANCIAL RESPONSIBILITY

A. State Program - Third party liability/State contractor (FPUPA/AIG).
B. State Program - Third party liability/Self insurance with other carrier; other federal financial responsibility mechanism.
C. Other coverage meeting federal financial responsibility requirements.
D. None

#9 - TANK ID NUMBER
(number sequentially, 1,2,3; or provide specific identifying name or number, 6 characters, maximum)

#10 - TANK SIZE IN GALLONS

#11 - CONTENT

A. Leaded gasoline
B. Unleaded gasoline
C. Gasohol
D. Vehicular diesel
E. Aviation gasoline
F. Jet fuel
G. Fuel - emergency generator
H. Fuel - generator or pump
K. Kerosene
L. Waste oil
M. Fuel oil: on-site heat use only, all USTs or ASTs < 30K gals
N. Fuel oil: distribution, or on-site heat use ASTs > 30K gals
O. New & lube oil
Q. Pesticides
R. Ammonia compound
S. Chlorine compound
T. Hazardous substance (CERCLA)
U. Mineral acid
V. Grades 5 & 6, bunker "C" residual oils
W. Petroleum-base additive
X. Other, miscellaneous petroleum-base produc

#12 - INSTALLATION DATE (mm/yy)

#13 - TANK PLACEMENT
A = Aboveground tank
U = Underground tank
C = Aboveground Compression Vessel
D = Underground Compression Vessel

#14 - TANK CONSTRUCTION - choose one primary construction and all other codes that apply; primary is inner tank construction for double wall tanks

Primary Construction:
C. Steel
D. Unknown
E. Fiberglass
F. Fiberglass-clad steel
X. Concrete
Y. Polyethylene
Z. Other DER approved tank material

Overfill/Spill:
A. Ball check valve
N. Flow shut-off
O. Tight fill
M. Spill containment bucket
P. Level gauges, high-level alarms
Q. Other DER approved protection method

Corrosion Protection:
G. Cathodic protection - sacrificial anode
H. Cathodic protection - impressed current

Secondary Containment:
I. Double wall construction: single material, outer tank material same as inner tank material
R. Double wall construction: dual material; outer tank constructed of concrete, approved synthetic material or tank "jacket
J. Synthetic liner in tank excavation
K. Concrete, synthetic material, and/or offsite clays beneath AST and in containment area
S. Other DER approved secondary containment system

Miscellaneous attributes:
B. Internal lining
L. Compartmented
U. Field erected tank

#15 - PIPING CONSTRUCTION - choose one primary construction and all other codes that apply; primary is inner pipe construction for double wall piping

Primary Construction:
B. Steel or galvanized metal
C. Fiberglass
N. Approved synthetic material
Y. Unknown
Z. Other DER approved piping material

Corrosion Protection:
D. External protective coating
E. Cathodically protected with sacrificial anode or impressed current

Secondary Containment:
F. Double wall construction: single material; outer pipe material same as inner pipe material
M. Double wall construction: dual material; outer pipe constructed of approved synthetic material or pipe "jacket"
G. Synthetic liner or boxtrench liner in piping excavation or pipe containment area

Miscellaneous attributes:
A. Aboveground, no contact with soil
I. Suction piping system
J. Pressurized piping system
X. Dispenser liners
L. Bulk product system
H. Airport/seaport hydrant system

#16 - LEAK DETECTION METHODS - choose all that apply

Site/general:
A. Automatically sampled wells
C. Groundwater monitoring plan
N. Groundwater monitoring system
I. Not required - see rule for exemptions
Y. Unknown
B. Manually sampled wells
D. SPCC Plan
O. Vapor monitoring system
X. None
Z. Other DER approved monitoring method

Tank monitoring:
E. Interstitial space - tank/liner
F. Interstitial space - double wall tank
L. Automatic tank gauging
M. Manual tank gauging

Piping monitoring:
G. In-line detector, auto shut off
H. In-line flow restrictor
J. Interstitial space - piping/liner
K. Interstitial space - double wall piping

#17 - TANK STATUS &/or TANK DISPOSAL

A. Properly closed in place - UST filled with sand, concrete or other inert material; AST rendered unusable
B. Removed from the site
* A or B: Closure Assessment required after 12/10/90 (UST); 03/12/91 (AST) - EDI sites excluded
F. Unmaintained tank - not in use or to be used, and not properly disposed
T. Temporarily out-of-service
[illegible]

#18 - GALLONS LEFT in out-of-service tank

#19 - LAST USED DATE (mm/yy) or date of permanent closure

Florida Department of Environmental Regulation
Twin Towers Office Bldg. • 2600 Blair Stone Road • Tallahassee, Florida 32399-2400

DER Form # 17-761.900(8)
Form Title Closure Assessment Form
Effective Date December 10, 1990
DER Application No. _____ (Filled in by DER)

Closure Assessment Form

008893

Owners of storage tank systems that are replacing, removing or closing in place storage tanks shall use this form to demonstrate that a storage system closure assesment was performed in accordance with Rule 17-761 or 17-762, Florida Administrative Code. Eligible Early Detection Incentive (EDI) and Reimbursement Program sites do not have to perform a closure assessment.

Please Print or Type
Complete All Applicable Blanks

1. Date: 7/10/95
2. DER Facility ID Number: 038518667 3. County: Bay
4. Facility Name: Coastal Systems Station, Dahlgren Division, Naval Surface Warfare Center
5. Facility Owner: United States Navy
6. Facility Address: Commanding Officer Code 0511, Coastal Systems Station, 6703 West Hwy. 98, Panama City, FL 32407-7001
7. Mailing Address: Same
8. Telephone Number: (904) 235-5859 9. Facility Operator: United States Navy
10. Are the Storage Tank(s): **(Circle one or both)** A. Aboveground or (B) Underground
11. Type of Product(s) Stored: JP-5 jet fuel
12. Were the Tank(s): **(Circle one)** A. Replaced (B) Removed C. Closed in Place D. Upgraded (aboveground tanks only)
13. Number of Tanks Closed: 3 14. Age of Tanks: Tanks were installed in 1976

Tank # 325-A
325-B
325-C

Facility Assessment Information

Yes	No	Not Applicable	
☐	☒		1. Is the facility participating in the Florida Petroleum Liability Insurance and Restoration Program (FPLIRP)?
☐	☐		2. Was a Discharge Reporting Form submitted to the Department? If yes, When: _____ Where: _____
☒	☐		3. Is the depth to ground water less than 20 feet?
☒	☐	☐	4. Are monitoring wells present around the storage system? If yes, specify type: ☒ Water monitoring ☐ Vapor monitoring
☒	☐	☐	5. Is there free product present in the monitoring wells or within the excavation?
☐	☐	☒	6. Were the petroleum hydrocarbon vapor levels in the soils greater than 500 parts per million for gasoline? Specify sample type: ☐ Vapor Monitoring wells ☐ Soil sample(s)
☒	☐	☐	7. Were the petroleum hydrocarbon vapor levels in the soils greater than 50 parts per million for diesel/kerosene? Specify sample type: ☐ Vapor Monitoring wells ☒ Soil sample(s)
☒	☐	☐	8. Were the analytical laboratory results of the ground water sample(s) greater than the allowable state target levels? (See target levels on reverse side of this form and supply laboratory data sheets) *See note on back
☐	☐	☒	9. If a used oil storage system, did a visual inspection detect any discolored soil indicating a release?
☒	☐		10. Are any potable wells located within ¼ of a mile radius of the facility?
☒	☐		11. Is there a surface water body within ¼ mile radius of the site? If yes, indicate distance: 60 ft.

Northwest District 160 Governmental Center Pensacola, Florida 32501-5794 904-436-8300
Northeast District 7825 Baymeadows Way, Suite B-200 Jacksonville, Florida 32256 904-798-4200
Central District 3319 Maguire Blvd., Suite 232 Orlando, Florida 32803-3767 407-894-7555
Southwest District 4520 Oak Fair Blvd. Tampa, Florida 33610-7347 813-623-5561
South District 2295 Bay St. Fort Myers, Florida 33901-7696 813-332-6975
Southeast District 1900 S. Congress Ave., Suite A West Palm Beach, Florida 33406 407-433-2860

DER Form # 17-761.900(8)
Form Title Closure Assessment Form
Effective Date December 10, 1990
DER Application No. (Filled in by DER)

12. A detailed drawing or sketch of the facility that includes the storage system location, monitoring wells, buildings, storm drains, sample locations, and dispenser locations must accompany this form.
13. If a facility has a pollutant storage tank system that has both gasoline and kerosene/diesel stored on site, both EPA Method 602 and EPA Method 610 must be performed on the ground water samples obtained.
14. Amount of soils removed and receipt of proper disposal.
15. If yes is answered to any one of questions 5-9, a Discharge Reporting Form 17-761.900(1) indicating a suspected release shall be submitted to the Department within one working day.
16. A copy of this form and any attachments must be submitted to the Department's district office in your area and to the locally administered program office under contract with the Department within 60 days of completion of tank removal or filling a tank with an inert material.

Signature of Owner — Date

Jay Koch — 8/16/95
Signature of Person Performing Assessment — Date

Geologist ABB Environmental Services
Title of Person Performing Assessment

State Ground Water Target Levels That Affect A Pollutant Storage Tank System Closure Assessment

State ground water target levels are as follows:

1. For gasoline (EPA Method 602):
   a. Benzene — 1 ug/l
   b. Total VOA — 50 ug/l
      - Benzene
      - Toluene
      - Total Xylenes
      - Ethylbenzene
   c. Methyl Test-Butyl Ether (MTBE) — 50 ug/l

2. For kerosene/diesel (EPA Method 610):
   a. Polynuclear Aromatic Hydrocarbons (PAHS) (Best achievable detection limit, 10 ug/l maximum)

* Laboratory analytical results of groundwater samples collected in March 1993 from site monitoring wells indicated that concentrations of petroleum contaminants exceeded State target levels. Currently, there is free product in several monitoring wells surrounding the former UST locations. ABB Environmental Services, Inc. is making plans to return to the site to finish a contamination assessment.

008893

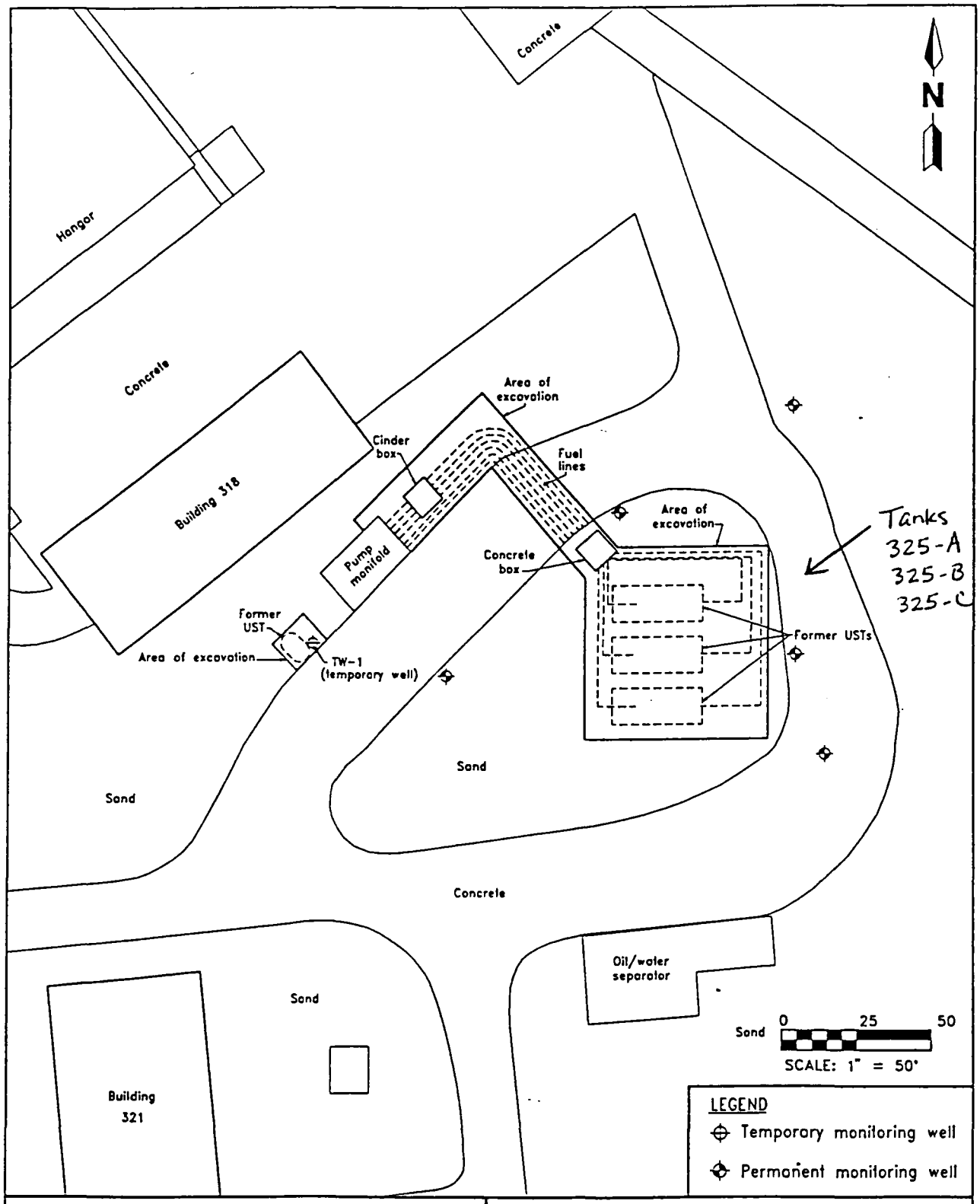


FIGURE 1
REVISED SITE SKETCH
(POST TANK REMOVAL)

UNDERGROUND STORAGE TANK CLOSURE LETTER
SITE 325

COASTAL SYSTEMS STATION
PANAMA CITY, FLORIDA

H:\PANAMA\BASE1\GLC-NP\07-18-95

Florida Department of Environmental Regulation
Twin Towers Office Bldg. • 2600 Blair Stone Road • Tallahassee, Florida 32399-2400

DER Form # 17-761.900(8)
Form Title Closure Assessment Form
Effective Date December 10, 1990
DER Application No. _____ (Filled in by DER)

Closure Assessment Form

008893

Owners of storage tank systems that are replacing, removing or closing in place storage tanks shall use this form to demonstrate that a storage system closure assesment was performed in accordance with Rule 17-761 or 17-762, Florida Administrative Code. Eligible Early Detection Incentive (EDI) and Reimbursement Program sites do not have to perform a closure assessment.

Please Print or Type
Complete All Applicable Blanks

1. Date: 7/10/95
2. DER Facility ID Number: 038518667 3. County: Bay
4. Facility Name: Coastal Systems Station, Dahlgren Division, Naval Surface Warfare Center
5. Facility Owner: United States Navy
6. Facility Address: ~~Coastal~~ Commanding Officer Code 0511, Coastal Systems Station, 6703 West Hwy. Panama City, FL 32407-7001
7. Mailing Address: Same
8. Telephone Number: (904) 235-5859 9. Facility Operator: United States Navy
10. Are the Storage Tank(s): **(Circle one or both)** A. Aboveground or (B.) Underground
11. Type of Product(s) Stored: JP-5 jet fuel
12. Were the Tank(s): **(Circle one)** A. Replaced (B.) Removed C. Closed in Place D. Upgraded (aboveground tanks only)
13. Number of Tanks Closed: 1 14. Age of Tanks: Tank was installed in 1984
Tank # 318-B

Facility Assessment Information

Yes	No	Not Applicable	
☐	☒		1. Is the facility participating in the Florida Petroleum Liability Insurance and Restoration Program (FPLIRP)?
☐	☐		2. Was a Discharge Reporting Form submitted to the Department? If yes, When: _____ Where: _____
☒	☐		3. Is the depth to ground water less than 20 feet?
☐	☒	☐	4. Are monitoring wells present around the storage system? If yes, specify type: ☐ Water monitoring ☐ Vapor monitoring
☐	☒	☐	5. Is there free product present in the monitoring wells or within the excavation?
☐	☐	☒	6. Were the petroleum hydrocarbon vapor levels in the soils greater than 500 parts per million for gasoline? Specify sample type: ☐ Vapor Monitoring wells ☐ Soil sample(s)
☒	☐	☐	7. Were the petroleum hydrocarbon vapor levels in the soils greater than 50 parts per million for diesel/kerosene? Specify sample type: ☐ Vapor Monitoring wells ☒ Soil sample(s)
☒	☐	☐	8. Were the analytical laboratory results of the ground water sample(s) greater than the allowable state target levels? (See target levels on reverse side of this form and supply laboratory data sheets)
☐	☐	☒	9. If a used oil storage system, did a visual inspection detect any discolored soil indicating a release?
☒	☐		10. Are any potable wells located within ¼ of a mile radius of the facility?
☒	☐		11. Is there a surface water body within ¼ mile radius of the site? If yes, indicate distance: 130 ft.

Northwest District 160 Governmental Center Pensacola, Florida 32501-5794 904-436-8300
Northeast District 7825 Baymeadows Way, Suite B-200 Jacksonville, Florida 32256 904-798-4200
Central District 3319 Maguire Blvd. Suite 232 Orlando, Florida 32803-3767 407-894-7555
Southwest District 4520 Oak Fair Blvd. Tampa, Florida 33610-7347 813-623-5561
South District 2295 Bay St. Fort Myers, Florida 33901-7696 813-332-6975
Southeast District 1900 S. Congress Ave., Suite A West Palm Beach, Florida 33406 407-433-7650

DER Form #	17-761.900(6)
Form Title	Closure Assessment Form
Effective Date	December 10, 1990
DER Application No.	(Fixed in by DER)

12. A detailed drawing or sketch of the facility that includes the storage system location, monitoring wells, buildings, storm drains, sample locations, and dispenser locations must accompany this form.
13. If a facility has a pollutant storage tank system that has both gasoline and kerosene/diesel stored on site, both EPA Method 602 and EPA Method 610 must be performed on the ground water samples obtained.
14. Amount of soils removed and receipt of proper disposal.
15. If yes is answered to any one of questions 5-9, a Discharge Reporting Form 17-761.900(1) indicating a suspected release shall be submitted to the Department within one working day.
16. A copy of this form and any attachments must be submitted to the Department's district office in your area and to the locally administered program office under contract with the Department within 60 days of completion of tank removal or filling a tank with an inert material.

Signature of Owner — Date

Jay Koch — 8/16/95

Signature of Person Performing Assessment — Date

Geologist, ABB Environmental Services

Title of Person Performing Assessment

State Ground Water Target Levels That Affect A Pollutant Storage Tank System Closure Assessment

State ground water target levels are as follows:

1. For gasoline (EPA Method 602):
   a. Benzene — 1 ug/l
   b. Total VOA — 50 ug/l
      - Benzene
      - Toluene
      - Total Xylenes
      - Ethylbenzene
   c. Methyl Test-Butyl Ether (MTBE) — 50 ug/l
2. For kerosene/diesel (EPA Method 610):
   a. Polynuclear Aromatic Hydrocarbons (PAHS) (Best achievable detection limit, 10 ug/l maximum)

Florida Department of Environmental Regulation
Twin Towers Office Bldg. • 2600 Blair Stone Road • Tallahassee, Florida 32399-2400

DER Form # 17-761.900(1)
Form Title Discharge Reporting Form
Effective Date December 10, 1990
DER Application No. _____ (Filled in by DER)

Discharge Reporting Form

008893

Use this form to notify the Department of Environmental Regulation of:

1. Results of tank tightness testing that exceed allowable tolerances within ten days of receipt of test result.
2. Petroleum discharges exceeding 25 gallons on pervious surfaces as described in Section 17-761.460 F.A.C. within one working day of discovery.
3. Hazardous substance (CERCLA regulated), discharges exceeding applicable reportable quantities established in 17-761.460(2) F.A.C., within one working day of the discovery.
4. Within one working day of discovery of suspected releases confirmed by: (a) released regulated substances or pollutants discovered in the surrounding area, (b) unusual and unexplained storage system operating conditions, (c) monitoring results from a leak detection method or from a tank closure assessment that indicate a release may have occurred, or (d) manual tank gauging results for tanks of 550 gallons or less, exceeding ten gallons per weekly test or five gallons averaged over four consecutive weekly tests.

Mail to the DER District Office in your area listed on the reverse side of this form

PLEASE PRINT OR TYPE

Complete all applicable blanks

1. DER Facility ID Number: 038518667 2. Tank Number: 318-B 3. Date: 7/11/95
4. Facility Name: Coastal Systems Station, Dahlgren Division, Naval Surface Warfare Center

   Facility Owner or Operator: United States Navy

   Facility Address: Commanding Officer Code 0511, Coastal Systems Station, 6703 West Hwy. 98 Panama City, FL 32407-7001

   Telephone Number: (904) 235-5859 County: Bay

   Mailing Address: Same
5. Date of receipt of test results or discovery: 7/3/95 month/day/year
6. Method of initial discovery. (circle one only)
   A. Liquid detector (automatic or manual)
   B. Vapor detector (automatic or manual)
   C. Tightness test (underground tanks only).
   D. Emptying and Inspection.
   E. Inventory control.
   F. Vapor or visible signs of a discharge in the vicinity.
   (G.) Closure: OVA measurements of soil samples collected above and below the UST were greater than 50 ppm. (explain)
   H. Other: _____
7. Estimated number of gallons discharged: —
8. What part of storage system has leaked? (circle all that apply) A. Dispenser B. Pipe C. Fitting D. Tank (E.) Unknown
9. Type of regulated substance discharged. (circle one)
   A. leaded gasoline
   B. unleaded gasoline
   C. gasohol
   D. vehicular diesel
   (E.) aviation gas
   G. jet fuel
   L. used/waste oil
   M. diesel
   O. new/lube oil
   V. hazardous substance includes pesticides, ammonia, chlorine and derivatives (write in name or Chemical Abstract Service CAS number) _____
   Z. other (write in name) _____
10. Cause of leak. (circle all that apply)
    (A.) Unknown
    B. Split
    C. Loose connection
    D. Corrosion
    E. Puncture
    F. Installation failure
    G. Spill _____
    H. Overfill
    I. Other (specify) _____
11. Type of financial responsibility. (circle one)
    A. Third party insurance provided by the state insurance contractor
    B. Self-insurance pursuant to Chapter 17-769.500 F.A.C.
    (C.) Not applicable
    D. None

To the best of my knowledge and belief all information submitted on this form is true, accurate, and complete.

_____ Printed Name of Owner, Operator or Authorized Representative

_____ Signature of Owner, Operator or Authorized Representative

008893

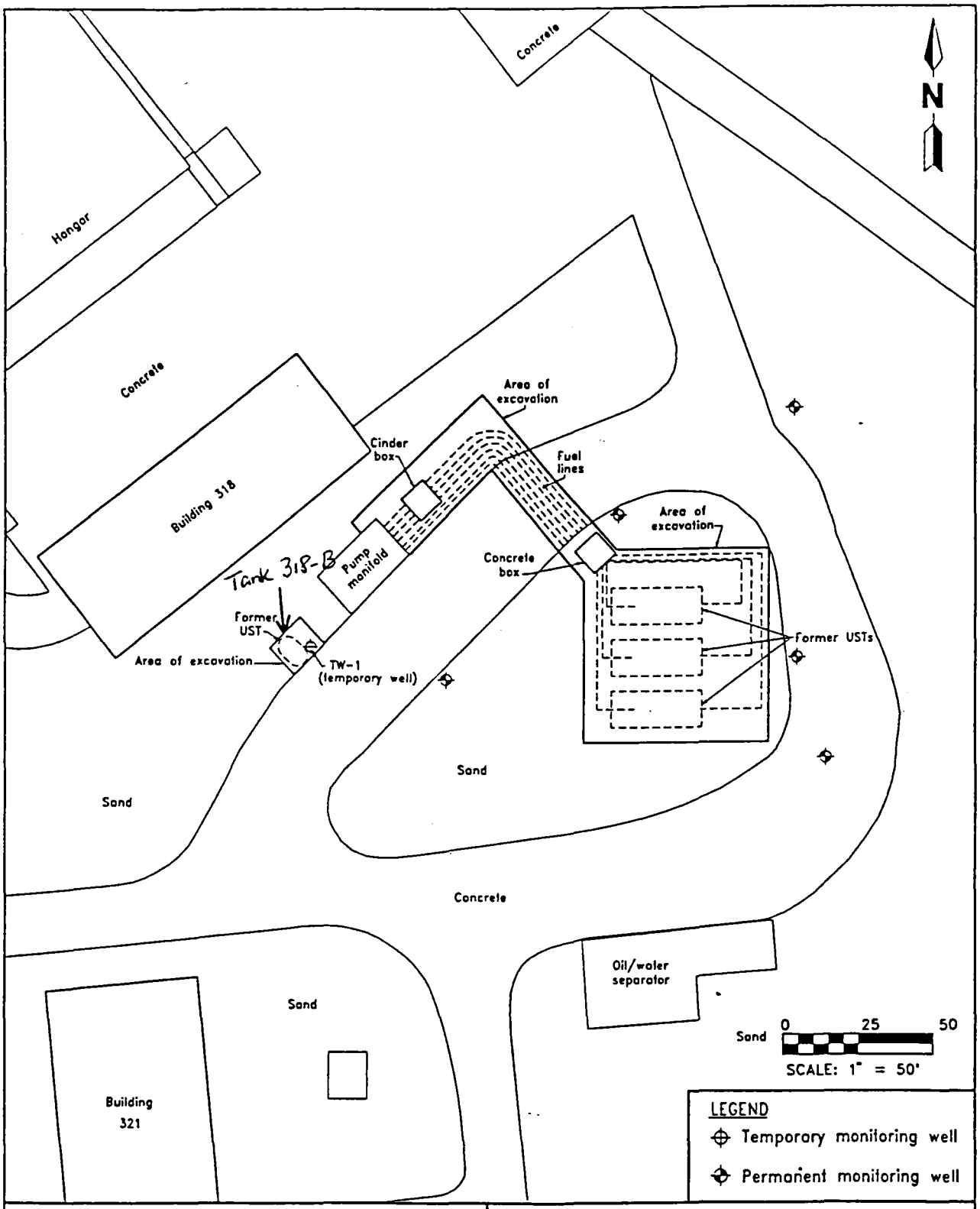


FIGURE 1
REVISED SITE SKETCH
(POST TANK REMOVAL)

H:\PANAMA\BASE1\GLC-NP\07-18-95

UNDERGROUND STORAGE TANK
CLOSURE LETTER
SITE 325

COASTAL SYSTEMS STATION
PANAMA CITY, FLORIDA

008893

APPENDIX C

ANALYTICAL RESULTS

PANAMA CITY PRE-BURN SAMPLE RESULTS

SAMPLE NUMBERS 1400501, 1400601, 1400701

SAMPLE ID	LAB CODE	SDG	LAB ID	BLANK ID	CAS NO.	ANALYTE	RESULT	UNITS	RECEIVED	PREPRED	ANALYZED	TIME	METHOD	FLAG	METHOD LIMITS	MDL UNITS	DF	MST	MATRIX	STYPE
PC1400501	ATI	506543	506543-1	KIS138	75-27-4	BROMODICHLOROMETHANE	<11	UG/KG	19-Jun-95	20-Jun-95	20-Jun-95	1601	SW8010	U	11	UG/KG	10	7%	SOL	
PC1400601	ATI	506543	506543-3	KIS138	75-27-4	BROMODICHLOROMETHANE	<11	UG/KG	19-Jun-95	20-Jun-95	20-Jun-95	1713	SW8010	U	11	UG/KG	10	6%	SOL	
PC1400701	ATI	506543	506543-5	KIS142	75-27-4	BROMODICHLOROMETHANE	<110	UG/KG	19-Jun-95	21-Jun-95	21-Jun-95	203	SW8010	U	110	UG/KG	100	8%	SOL	
PC1400501	ATI	506543	506543-1	KIS138	75-25-2	BROMOFORM	<22	UG/KG	19-Jun-95	20-Jun-95	20-Jun-95	1601	SW8010	U	22	UG/KG	10	7%	SOL	
PC1400601	ATI	506543	506543-3	KIS138	75-25-2	BROMOFORM	<21	UG/KG	19-Jun-95	20-Jun-95	20-Jun-95	1713	SW8010	U	21	UG/KG	10	6%	SOL	
PC1400701	ATI	506543	506543-5	KIS142	75-25-2	BROMOFORM	<220	UG/KG	19-Jun-95	21-Jun-95	21-Jun-95	203	SW8010	U	220	UG/KG	100	8%	SOL	
PC1400501	ATI	506543	506543-1	KIS138	74-83-9	BROMOMETHANE	<22	UG/KG	19-Jun-95	20-Jun-95	20-Jun-95	1601	SW8010	U	22	UG/KG	10	7%	SOL	
PC1400601	ATI	506543	506543-3	KIS138	74-83-9	BROMOMETHANE	<21	UG/KG	19-Jun-95	20-Jun-95	20-Jun-95	1713	SW8010	U	21	UG/KG	10	6%	SOL	
PC1400701	ATI	506543	506543-5	KIS142	74-83-9	BROMOMETHANE	<220	UG/KG	19-Jun-95	21-Jun-95	21-Jun-95	203	SW8010	U	220	UG/KG	100	8%	SOL	
PC1400501	ATI	506543	506543-1	KIS138	56-23-5	CARBON TETRACHLORIDE	<11	UG/KG	19-Jun-95	20-Jun-95	20-Jun-95	1601	SW8010	U	11	UG/KG	10	7%	SOL	
PC1400601	ATI	506543	506543-3	KIS138	56-23-5	CARBON TETRACHLORIDE	<11	UG/KG	19-Jun-95	20-Jun-95	20-Jun-95	1713	SW8010	U	11	UG/KG	10	6%	SOL	
PC1400701	ATI	506543	506543-5	KIS142	56-23-5	CARBON TETRACHLORIDE	<110	UG/KG	19-Jun-95	21-Jun-95	21-Jun-95	203	SW8010	U	110	UG/KG	100	8%	SOL	
PC1400501	ATI	506543	506543-1	KIS138	108-90-7	CHLOROBENZENE	<11	UG/KG	19-Jun-95	20-Jun-95	20-Jun-95	1601	SW8010	U	11	UG/KG	10	7%	SOL	
PC1400601	ATI	506543	506543-3	KIS138	108-90-7	CHLOROBENZENE	<11	UG/KG	19-Jun-95	20-Jun-95	20-Jun-95	1713	SW8010	U	11	UG/KG	10	6%	SOL	
PC1400701	ATI	506543	506543-5	KIS142	108-90-7	CHLOROBENZENE	<110	UG/KG	19-Jun-95	21-Jun-95	21-Jun-95	203	SW8010	U	110	UG/KG	100	8%	SOL	
PC1400501	ATI	506543	506543-1	KIS138	75-00-3	CHLOROETHANE	<54	UG/KG	19-Jun-95	20-Jun-95	20-Jun-95	1601	SW8010	U	54	UG/KG	10	7%	SOL	
PC1400601	ATI	506543	506543-3	KIS138	75-00-3	CHLOROETHANE	<53	UG/KG	19-Jun-95	20-Jun-95	20-Jun-95	1713	SW8010	U	53	UG/KG	10	6%	SOL	
PC1400701	ATI	506543	506543-5	KIS142	75-00-3	CHLOROETHANE	<540	UG/KG	19-Jun-95	21-Jun-95	21-Jun-95	203	SW8010	U	540	UG/KG	100	8%	SOL	
PC1400501	ATI	506543	506543-1	KIS138	110-75-8	2-CHLOROETHYLVINYLETHER	<54	UG/KG	19-Jun-95	20-Jun-95	20-Jun-95	1601	SW8010	U	54	UG/KG	10	7%	SOL	
PC1400601	ATI	506543	506543-3	KIS138	110-75-8	2-CHLOROETHYLVINYLETHER	<53	UG/KG	19-Jun-95	20-Jun-95	20-Jun-95	1713	SW8010	U	53	UG/KG	10	6%	SOL	
PC1400701	ATI	506543	506543-5	KIS142	110-75-8	2-CHLOROETHYLVINYLETHER	<540	UG/KG	19-Jun-95	21-Jun-95	21-Jun-95	203	SW8010	U	540	UG/KG	100	8%	SOL	
PC1400501	ATI	506543	506543-1	KIS138	67-66-3	CHLOROFORM	<22	UG/KG	19-Jun-95	20-Jun-95	20-Jun-95	1601	SW8010	U	22	UG/KG	10	7%	SOL	
PC1400601	ATI	506543	506543-3	KIS138	67-66-3	CHLOROFORM	<21	UG/KG	19-Jun-95	20-Jun-95	20-Jun-95	1713	SW8010	U	21	UG/KG	10	6%	SOL	
PC1400701	ATI	506543	506543-5	KIS142	67-66-3	CHLOROFORM	<220	UG/KG	19-Jun-95	21-Jun-95	21-Jun-95	203	SW8010	U	220	UG/KG	100	8%	SOL	
PC1400501	ATI	506543	506543-1	KIS138	74-87-3	CHLOROMETHANE	<54	UG/KG	19-Jun-95	20-Jun-95	20-Jun-95	1601	SW8010	U	54	UG/KG	10	7%	SOL	
PC1400601	ATI	506543	506543-3	KIS138	74-87-3	CHLOROMETHANE	<53	UG/KG	19-Jun-95	20-Jun-95	20-Jun-95	1713	SW8010	U	53	UG/KG	10	6%	SOL	
PC1400701	ATI	506543	506543-5	KIS142	74-87-3	CHLOROMETHANE	<540	UG/KG	19-Jun-95	21-Jun-95	21-Jun-95	203	SW8010	U	540	UG/KG	100	8%	SOL	
PC1400501	ATI	506543	506543-1	KIS138	124-48-1	DIBROMOCHLOROMETHANE	<54	UG/KG	19-Jun-95	20-Jun-95	20-Jun-95	1601	SW8010	U	54	UG/KG	10	7%	SOL	
PC1400601	ATI	506543	506543-3	KIS138	124-48-1	DIBROMOCHLOROMETHANE	<53	UG/KG	19-Jun-95	20-Jun-95	20-Jun-95	1713	SW8010	U	53	UG/KG	10	6%	SOL	
PC1400701	ATI	506543	506543-5	KIS142	124-48-1	DIBROMOCHLOROMETHANE	<540	UG/KG	19-Jun-95	21-Jun-95	21-Jun-95	203	SW8010	U	540	UG/KG	100	8%	SOL	
PC1400501	ATI	506543	506543-1	KIS138	95-50-1	1 2-DICHLOROBENZENE	<22	UG/KG	19-Jun-95	20-Jun-95	20-Jun-95	1601	SW8010	U	22	UG/KG	10	7%	SOL	
PC1400601	ATI	506543	506543-3	KIS138	95-50-1	1 2-DICHLOROBENZENE	<21	UG/KG	19-Jun-95	20-Jun-95	20-Jun-95	1713	SW8010	U	21	UG/KG	10	6%	SOL	
PC1400701	ATI	506543	506543-5	KIS142	95-50-1	1 2-DICHLOROBENZENE	<220	UG/KG	19-Jun-95	21-Jun-95	21-Jun-95	203	SW8010	U	220	UG/KG	100	8%	SOL	
PC1400501	ATI	506543	506543-1	KIS138	541-73-1	1 3-DICHLOROBENZENE	<22	UG/KG	19-Jun-95	20-Jun-95	20-Jun-95	1601	SW8010	U	22	UG/KG	10	7%	SOL	
PC1400601	ATI	506543	506543-3	KIS138	541-73-1	1 3-DICHLOROBENZENE	<21	UG/KG	19-Jun-95	20-Jun-95	20-Jun-95	1713	SW8010	U	21	UG/KG	10	6%	SOL	
PC1400701	ATI	506543	506543-5	KIS142	541-73-1	1 3-DICHLOROBENZENE	<220	UG/KG	19-Jun-95	21-Jun-95	21-Jun-95	203	SW8010	U	220	UG/KG	100	8%	SOL	
PC1400501	ATI	506543	506543-1	KIS138	106-46-7	1 4-DICHLOROBENZENE	<22	UG/KG	19-Jun-95	20-Jun-95	20-Jun-95	1601	SW8010	U	22	UG/KG	10	7%	SOL	
PC1400601	ATI	506543	506543-3	KIS138	106-46-7	1 4-DICHLOROBENZENE	<21	UG/KG	19-Jun-95	20-Jun-95	20-Jun-95	1713	SW8010	U	21	UG/KG	10	6%	SOL	
PC1400701	ATI	506543	506543-5	KIS142	106-46-7	1 4-DICHLOROBENZENE	<220	UG/KG	19-Jun-95	21-Jun-95	21-Jun-95	203	SW8010	U	220	UG/KG	100	8%	SOL	
PC1400501	ATI	506543	506543-1	KIS138	75-71-8	DICHLORODIFLUOROMETHANE	<54	UG/KG	19-Jun-95	20-Jun-95	20-Jun-95	1601	SW8010	U	54	UG/KG	10	7%	SOL	
PC1400601	ATI	506543	506543-3	KIS138	75-71-8	DICHLORODIFLUOROMETHANE	<53	UG/KG	19-Jun-95	20-Jun-95	20-Jun-95	1713	SW8010	U	53	UG/KG	10	6%	SOL	
PC1400701	ATI	506543	506543-5	KIS142	75-71-8	DICHLORODIFLUOROMETHANE	<540	UG/KG	19-Jun-95	21-Jun-95	21-Jun-95	203	SW8010	U	540	UG/KG	100	8%	SOL	
PC1400501	ATI	506543	506543-1	KIS138	75-34-3	1 1-DICHLOROETHANE	<11	UG/KG	19-Jun-95	20-Jun-95	20-Jun-95	1601	SW8010	U	11	UG/KG	10	7%	SOL	
PC1400601	ATI	506543	506543-3	KIS138	75-34-3	1 1-DICHLOROETHANE	<11	UG/KG	19-Jun-95	20-Jun-95	20-Jun-95	1713	SW8010	U	11	UG/KG	10	6%	SOL	
PC1400701	ATI	506543	506543-5	KIS142	75-34-3	1 1-DICHLOROETHANE	<110	UG/KG	19-Jun-95	21-Jun-95	21-Jun-95	203	SW8010	U	110	UG/KG	100	8%	SOL	
PC1400501	ATI	506543	506543-1	KIS138	107-06-2	1 2-DICHLOROETHANE	<11	UG/KG	19-Jun-95	20-Jun-95	20-Jun-95	1601	SW8010	U	11	UG/KG	10	7%	SOL	
PC1400601	ATI	506543	506543-3	KIS138	107-06-2	1 2-DICHLOROETHANE	<11	UG/KG	19-Jun-95	20-Jun-95	20-Jun-95	1713	SW8010	U	11	UG/KG	10	6%	SOL	
PC1400701	ATI	506543	506543-5	KIS142	107-06-2	1 2-DICHLOROETHANE	<110	UG/KG	19-Jun-95	21-Jun-95	21-Jun-95	203	SW8010	U	110	UG/KG	100	8%	SOL	
PC1400501	ATI	506543	506543-1	KIS138	75-35-4	1 1-DICHLOROETHENE	<11	UG/KG	19-Jun-95	20-Jun-95	20-Jun-95	1601	SW8010	U	11	UG/KG	10	7%	SOL	
PC1400601	ATI	506543	506543-3	KIS138	75-35-4	1 1-DICHLOROETHENE	<11	UG/KG	19-Jun-95	20-Jun-95	20-Jun-95	1713	SW8010	U	11	UG/KG	10	6%	SOL	
PC1400701	ATI	506543	506543-5	KIS142	75-35-4	1 1-DICHLOROETHENE	<110	UG/KG	19-Jun-95	21-Jun-95	21-Jun-95	203	SW8010	U	110	UG/KG	100	8%	SOL	
PC1400501	ATI	506543	506543-1	KIS138	156-60-5	TRANS 1 2 DICHLOROETHENE	<11	UG/KG	19-Jun-95	20-Jun-95	20-Jun-95	1601	SW8010	U	11	UG/KG	10	7%	SOL	
PC1400601	ATI	506543	506543-3	KIS138	156-60-5	TRANS 1 2 DICHLOROETHENE	<11	UG/KG	19-Jun-95	20-Jun-95	20-Jun-95	1713	SW8010	U	11	UG/KG	10	6%	SOL	
PC1400701	ATI	506543	506543-5	KIS142	156-60-5	TRANS 1 2 DICHLOROETHENE	<110	UG/KG	19-Jun-95	21-Jun-95	21-Jun-95	203	SW8010	U	110	UG/KG	100	8%	SOL	

D08863

PANAMA CITY PRE-BURN SAMPLE RESULTS

SAMPLE NUMBERS 1400501, 1400601, 1400701

SAMPLE ID	LAB CODE	SDG	LAB ID	BLANK ID	CAS NO.	ANALYTE	RESULT	UNITS	RECEIVED	PREPRED	ANALYZED	TIME	METHOD	FLAG	METHOD LIMITS	MDL UNITS	DF	MST	MATRIX	STYPE
PC1400501	ATI	506543	506543-1	KIS138	78-87-5	1 2-DICHLOROPROPANE	<11	UG/KG	19-Jun-95	20-Jun-95	20-Jun-95	1601	SW8010	U	11	UG/KG	10	7%	SOL	
PC1400601	ATI	506543	506543-3	KIS138	78-87-5	1 2-DICHLOROPROPANE	<11	UG/KG	19-Jun-95	20-Jun-95	20-Jun-95	1713	SW8010	U	11	UG/KG	10	6%	SOL	
PC1400701	ATI	506543	506543-5	KIS142	78-87-5	1 2-DICHLOROPROPANE	<110	UG/KG	19-Jun-95	21-Jun-95	21-Jun-95	203	SW8010	U	110	UG/KG	100	8%	SOL	
PC1400501	ATI	506543	506543-1	KIS138	10061-01-5	CIS-1 3-DICHLOROPROPENE	<11	UG/KG	19-Jun-95	20-Jun-95	20-Jun-95	1601	SW8010	U	11	UG/KG	10	7%	SOL	
PC1400601	ATI	506543	506543-3	KIS138	10061-01-5	CIS-1 3-DICHLOROPROPENE	<11	UG/KG	19-Jun-95	20-Jun-95	20-Jun-95	1713	SW8010	U	11	UG/KG	10	6%	SOL	
PC1400701	ATI	506543	506543-5	KIS142	10061-01-5	CIS-1 3-DICHLOROPROPENE	<110	UG/KG	19-Jun-95	21-Jun-95	21-Jun-95	203	SW8010	U	110	UG/KG	100	8%	SOL	
PC1400501	ATI	506543	506543-1	KIS138	10061-02-6	TRANS-1 3-DICHLOROPROPENE	<11	UG/KG	19-Jun-95	20-Jun-95	20-Jun-95	1601	SW8010	U	11	UG/KG	10	7%	SOL	
PC1400601	ATI	506543	506543-3	KIS138	10061-02-6	TRANS-1 3-DICHLOROPROPENE	<11	UG/KG	19-Jun-95	20-Jun-95	20-Jun-95	1713	SW8010	U	11	UG/KG	10	6%	SOL	
PC1400701	ATI	506543	506543-5	KIS142	10061-02-6	TRANS-1 3-DICHLOROPROPENE	<110	UG/KG	19-Jun-95	21-Jun-95	21-Jun-95	203	SW8010	U	110	UG/KG	100	8%	SOL	
PC1400501	ATI	506543	506543-1	KIS138	75-09-2	METHYLENE CHLORIDE	<54	UG/KG	19-Jun-95	20-Jun-95	20-Jun-95	1601	SW8010	U	54	UG/KG	10	7%	SOL	
PC1400601	ATI	506543	506543-3	KIS138	75-09-2	METHYLENE CHLORIDE	<53	UG/KG	19-Jun-95	20-Jun-95	20-Jun-95	1713	SW8010	U	53	UG/KG	10	6%	SOL	
PC1400701	ATI	506543	506543-5	KIS142	75-09-2	METHYLENE CHLORIDE	<540	UG/KG	19-Jun-95	21-Jun-95	21-Jun-95	203	SW8010	U	540	UG/KG	100	8%	SOL	
PC1400501	ATI	506543	506543-1	KIS138	79-34-5	1 1 2 2-TETRACHLOROETHANE	<11	UG/KG	19-Jun-95	20-Jun-95	20-Jun-95	1601	SW8010	U	11	UG/KG	10	7%	SOL	
PC1400601	ATI	506543	506543-3	KIS138	79-34-5	1 1 2 2-TETRACHLOROETHANE	<11	UG/KG	19-Jun-95	20-Jun-95	20-Jun-95	1713	SW8010	U	11	UG/KG	10	6%	SOL	
PC1400701	ATI	506543	506543-5	KIS142	79-34-5	1 1 2 2-TETRACHLOROETHANE	<110	UG/KG	19-Jun-95	21-Jun-95	21-Jun-95	203	SW8010	U	110	UG/KG	100	8%	SOL	
PC1400501	ATI	506543	506543-1	KIS138		TETRACHLOROETHENE	<32	UG/KG	19-Jun-95	20-Jun-95	20-Jun-95	1601	SW8010	U	32	UG/KG	10	7%	SOL	
PC1400601	ATI	506543	506543-3	KIS138		TETRACHLOROETHENE	<32	UG/KG	19-Jun-95	20-Jun-95	20-Jun-95	1713	SW8010	U	32	UG/KG	10	6%	SOL	
PC1400701	ATI	506543	506543-5	KIS142		TETRACHLOROETHENE	<330	UG/KG	19-Jun-95	21-Jun-95	21-Jun-95	203	SW8010	U	330	UG/KG	100	8%	SOL	
PC1400501	ATI	506543	506543-1	KIS138	71-55-6	1 1 1-TRICHLOROETHANE	<11	UG/KG	19-Jun-95	20-Jun-95	20-Jun-95	1601	SW8010	U	11	UG/KG	10	7%	SOL	
PC1400601	ATI	506543	506543-3	KIS138	71-55-6	1 1 1-TRICHLOROETHANE	<11	UG/KG	19-Jun-95	20-Jun-95	20-Jun-95	1713	SW8010	U	11	UG/KG	10	6%	SOL	
PC1400701	ATI	506543	506543-5	KIS142	71-55-6	1 1 1-TRICHLOROETHANE	<110	UG/KG	19-Jun-95	21-Jun-95	21-Jun-95	203	SW8010	U	110	UG/KG	100	8%	SOL	
PC1400501	ATI	506543	506543-1	KIS138	79-00-5	1 1 2-TRICHLOROETHANE	<22	UG/KG	19-Jun-95	20-Jun-95	20-Jun-95	1601	SW8010	U	22	UG/KG	10	7%	SOL	
PC1400601	ATI	506543	506543-3	KIS138	79-00-5	1 1 2-TRICHLOROETHANE	<21	UG/KG	19-Jun-95	20-Jun-95	20-Jun-95	1713	SW8010	U	21	UG/KG	10	6%	SOL	
PC1400701	ATI	506543	506543-5	KIS142	79-00-5	1 1 2-TRICHLOROETHANE	<220	UG/KG	19-Jun-95	21-Jun-95	21-Jun-95	203	SW8010	U	220	UG/KG	100	8%	SOL	
PC1400501	ATI	506543	506543-1	KIS138	79-01-6	TRICHLOROETHENE	<11	UG/KG	19-Jun-95	20-Jun-95	20-Jun-95	1601	SW8010	U	11	UG/KG	10	7%	SOL	
PC1400601	ATI	506543	506543-3	KIS138	79-01-6	TRICHLOROETHENE	<11	UG/KG	19-Jun-95	20-Jun-95	20-Jun-95	1713	SW8010	U	11	UG/KG	10	6%	SOL	
PC1400701	ATI	506543	506543-5	KIS142	79-01-6	TRICHLOROETHENE	<110	UG/KG	19-Jun-95	21-Jun-95	21-Jun-95	203	SW8010	U	110	UG/KG	100	8%	SOL	
PC1400501	ATI	506543	506543-1	KIS138	124-48-1	TRICHLOROFLUOROMETHANE	<22	UG/KG	19-Jun-95	20-Jun-95	20-Jun-95	1601	SW8010	U	22	UG/KG	10	7%	SOL	
PC1400601	ATI	506543	506543-3	KIS138	124-48-1	TRICHLOROFLUOROMETHANE	<21	UG/KG	19-Jun-95	20-Jun-95	20-Jun-95	1713	SW8010	U	21	UG/KG	10	6%	SOL	
PC1400701	ATI	506543	506543-5	KIS142	124-48-1	TRICHLOROFLUOROMETHANE	<220	UG/KG	19-Jun-95	21-Jun-95	21-Jun-95	203	SW8010	U	220	UG/KG	100	8%	SOL	
PC1400501	ATI	506543	506543-1	KIS138	75-01-4	VINYL CHLORIDE	<11	UG/KG	19-Jun-95	20-Jun-95	20-Jun-95	1601	SW8010	U	11	UG/KG	10	7%	SOL	
PC1400601	ATI	506543	506543-3	KIS138	75-01-4	VINYL CHLORIDE	<11	UG/KG	19-Jun-95	20-Jun-95	20-Jun-95	1713	SW8010	U	11	UG/KG	10	6%	SOL	
PC1400701	ATI	506543	506543-5	KIS142	75-01-4	VINYL CHLORIDE	<110	UG/KG	19-Jun-95	21-Jun-95	21-Jun-95	203	SW8010	U	110	UG/KG	100	8%	SOL	
PC1400501	ATI	506543	506543-1	KIS138		BENZYL CHLORIDE	<54	UG/KG**	19-Jun-95	20-Jun-95	20-Jun-95	1601	SW8010	U	54	UG/KG**	10	7%	SOL	
PC1400601	ATI	506543	506543-3	KIS138		BENZYL CHLORIDE	<53	UG/KG**	19-Jun-95	20-Jun-95	20-Jun-95	1713	SW8010	U	53	UG/KG**	10	6%	SOL	
PC1400701	ATI	506543	506543-5	KIS142		BENZYL CHLORIDE	<540	UG/KG**	19-Jun-95	21-Jun-95	21-Jun-95	203	SW8010	U	540	UG/KG**	100	8%	SOL	
PC1400501	ATI	506543	506543-1	KIS138		BROMOBENZENE	<32	UG/KG**	19-Jun-95	20-Jun-95	20-Jun-95	1601	SW8010	U	32	UG/KG**	10	7%	SOL	
PC1400601	ATI	506543	506543-3	KIS138		BROMOBENZENE	<32	UG/KG**	19-Jun-95	20-Jun-95	20-Jun-95	1713	SW8010	U	32	UG/KG**	10	6%	SOL	
PC1400701	ATI	506543	506543-5	KIS142		BROMOBENZENE	<330	UG/KG**	19-Jun-95	21-Jun-95	21-Jun-95	203	SW8010	U	330	UG/KG**	100	8%	SOL	
PC1400501	ATI	506543	506543-1	KIS138		DIBROMOMETHANE	<54	UG/KG**	19-Jun-95	20-Jun-95	20-Jun-95	1601	SW8010	U	54	UG/KG**	10	7%	SOL	
PC1400601	ATI	506543	506543-3	KIS138		DIBROMOMETHANE	<53	UG/KG**	19-Jun-95	20-Jun-95	20-Jun-95	1713	SW8010	U	53	UG/KG**	10	6%	SOL	
PC1400701	ATI	506543	506543-5	KIS142		DIBROMOMETHANE	<540	UG/KG**	19-Jun-95	21-Jun-95	21-Jun-95	203	SW8010	U	540	UG/KG**	100	8%	SOL	
PC1400501	ATI	506543	506543-1	KIS138		1 1 1 2 TETRACHLOROETHANE	<11	UG/KG**	19-Jun-95	20-Jun-95	20-Jun-95	1601	SW8010	U	11	UG/KG**	10	7%	SOL	
PC1400601	ATI	506543	506543-3	KIS138		1 1 1 2 TETRACHLOROETHANE	<11	UG/KG**	19-Jun-95	20-Jun-95	20-Jun-95	1713	SW8010	U	11	UG/KG**	10	6%	SOL	
PC1400701	ATI	506543	506543-5	KIS142		1 1 1 2 TETRACHLOROETHANE	<110	UG/KG**	19-Jun-95	21-Jun-95	21-Jun-95	203	SW8010	U	110	UG/KG**	100	8%	SOL	
PC1400501	ATI	506543	506543-1	KIS138		1 2 3 TRICHLOROPROPANE	<54	UG/KG**	19-Jun-95	20-Jun-95	20-Jun-95	1601	SW8010	U	54	UG/KG**	10	7%	SOL	
PC1400601	ATI	506543	506543-3	KIS138		1 2 3 TRICHLOROPROPANE	<53	UG/KG**	19-Jun-95	20-Jun-95	20-Jun-95	1713	SW8010	U	53	UG/KG**	10	6%	SOL	
PC1400701	ATI	506543	506543-5	KIS142		1 2 3 TRICHLOROPROPANE	<540	UG/KG**	19-Jun-95	21-Jun-95	21-Jun-95	203	SW8010	U	540	UG/KG**	100	8%	SOL	
PC1400501	ATI	506543	506543-1	KIS138		BROMOFLUOROBENZENE (ELCD)	N/A	SUR	19-Jun-95	20-Jun-95	20-Jun-95	1601	SW8010	U	69-126	SUR	1		SOL	SUR
PC1400601	ATI	506543	506543-3	KIS138		BROMOFLUOROBENZENE (ELCD)	N/A	SUR	19-Jun-95	20-Jun-95	20-Jun-95	1713	SW8010	U	69-126	SUR	1		SOL	SUR
PC1400701	ATI	506543	506543-5	KIS142		BROMOFLUOROBENZENE (ELCD)	N/A	SUR	19-Jun-95	21-Jun-95	21-Jun-95	203	SW8010	U	69-126	SUR	1		SOL	SUR
PC1400501	ATI	506543	506543-1	KIS138	71-43-2	BENZENE	<11	UG/KG	19-Jun-95	20-Jun-95	20-Jun-95	1601	SW8020	U	11	UG/KG	10	7%	SOL	
PC1400601	ATI	506543	506543-3	KIS138	71-43-2	BENZENE	<11	UG/KG	19-Jun-95	20-Jun-95	20-Jun-95	1713	SW8020	U	11	UG/KG	10	6%	SOL	
PC1400701	ATI	506543	506543-5	KIS142	71-43-2	BENZENE	<110	UG/KG	19-Jun-95	21-Jun-95	21-Jun-95	203	SW8020	U	110	UG/KG	100	8%	SOL	

008893

PANAMA CITY PRE-BURN SAMPLE RESULTS

SAMPLE NUMBERS 1400501, 1400601, 1400701

SAMPLE ID	LAB CODE	SDG	LAB ID	BLANK ID	CAS NO.	ANALYTE	RESULT	UNITS	RECEIVED	PREPRED	ANALYZED	TIME	METHOD	FLAG	METHOD LIMITS	MDL UNITS	DF	MST	MATRIX	STYPE
PC1400501	ATI	506543	506543-1	KIS138	108-90-7	CHLOROBENZENE	<11	UG/KG	19-Jun-95	20-Jun-95	20-Jun-95	1601	SW8020	U	11	UG/KG	10	7%	SOL	
PC1400601	ATI	506543	506543-3	KIS138	108-90-7	CHLOROBENZENE	<11	UG/KG	19-Jun-95	20-Jun-95	20-Jun-95	1713	SW8020	U	11	UG/KG	10	6%	SOL	
PC1400701	ATI	506543	506543-5	KIS142	108-90-7	CHLOROBENZENE	<110	UG/KG	19-Jun-95	21-Jun-95	21-Jun-95	203	SW8020	U	110	UG/KG	100	8%	SOL	
PC1400501	ATI	506543	506543-1	KIS138	95-50-1	1 2-DICHLOROBENZENE	<22	UG/KG	19-Jun-95	20-Jun-95	20-Jun-95	1601	SW8020	U	22	UG/KG	10	7%	SOL	
PC1400601	ATI	506543	506543-3	KIS138	95-50-1	1 2-DICHLOROBENZENE	<21	UG/KG	19-Jun-95	20-Jun-95	20-Jun-95	1713	SW8020	U	21	UG/KG	10	6%	SOL	
PC1400701	ATI	506543	506543-5	KIS142	95-50-1	1 2-DICHLOROBENZENE	<220	UG/KG	19-Jun-95	21-Jun-95	21-Jun-95	203	SW8020	U	220	UG/KG	100	8%	SOL	
PC1400501	ATI	506543	506543-1	KIS138	541-73-1	1 3-DICHLOROBENZENE	<22	UG/KG	19-Jun-95	20-Jun-95	20-Jun-95	1601	SW8020	U	22	UG/KG	10	7%	SOL	
PC1400601	ATI	506543	506543-3	KIS138	541-73-1	1 3-DICHLOROBENZENE	<21	UG/KG	19-Jun-95	20-Jun-95	20-Jun-95	1713	SW8020	U	21	UG/KG	10	6%	SOL	
PC1400701	ATI	506543	506543-5	KIS142	541-73-1	1 3-DICHLOROBENZENE	<220	UG/KG	19-Jun-95	21-Jun-95	21-Jun-95	203	SW8020	U	220	UG/KG	100	8%	SOL	
PC1400501	ATI	506543	506543-1	KIS138	106-46-7	1 4-DICHLOROBENZENE	<22	UG/KG	19-Jun-95	20-Jun-95	20-Jun-95	1601	SW8020	U	22	UG/KG	10	7%	SOL	
PC1400601	ATI	506543	506543-3	KIS138	106-46-7	1 4-DICHLOROBENZENE	<21	UG/KG	19-Jun-95	20-Jun-95	20-Jun-95	1713	SW8020	U	21	UG/KG	10	6%	SOL	
PC1400701	ATI	506543	506543-5	KIS142	106-46-7	1 4-DICHLOROBENZENE	<220	UG/KG	19-Jun-95	21-Jun-95	21-Jun-95	203	SW8020	U	220	UG/KG	100	8%	SOL	
PC1400501	ATI	506543	506543-1	KIS138	100-41-4	ETHYLBENZENE	290	UG/KG	19-Jun-95	20-Jun-95	20-Jun-95	1601	SW8020	U	11	UG/KG	10	7%	SOL	
PC1400601	ATI	506543	506543-3	KIS138	100-41-4	ETHYLBENZENE	160	UG/KG	19-Jun-95	20-Jun-95	20-Jun-95	1713	SW8020	U	11	UG/KG	10	6%	SOL	
PC1400701	ATI	506543	506543-5	KIS142	100-41-4	ETHYLBENZENE	2500	UG/KG	19-Jun-95	21-Jun-95	21-Jun-95	203	SW8020	U	110	UG/KG	100	8%	SOL	
PC1400501	ATI	506543	506543-1	KIS138	108-88-3	TOLUENE	<54	UG/KG	19-Jun-95	20-Jun-95	20-Jun-95	1601	SW8020	U	54	UG/KG	10	7%	SOL	
PC1400601	ATI	506543	506543-3	KIS138	108-88-3	TOLUENE	<53	UG/KG	19-Jun-95	20-Jun-95	20-Jun-95	1713	SW8020	U	53	UG/KG	10	6%	SOL	
PC1400701	ATI	506543	506543-5	KIS142	108-88-3	TOLUENE	<540	UG/KG	19-Jun-95	21-Jun-95	21-Jun-95	203	SW8020	U	540	UG/KG	100	8%	SOL	
PC1400501	ATI	506543	506543-1	KIS138	1330-20-7	XYLENES (TOTAL)	670	UG/KG	19-Jun-95	20-Jun-95	20-Jun-95	1601	SW8020	U	22	UG/KG	10	7%	SOL	
PC1400601	ATI	506543	506543-3	KIS138	1330-20-7	XYLENES (TOTAL)	320	UG/KG	19-Jun-95	20-Jun-95	20-Jun-95	1713	SW8020	U	21	UG/KG	10	6%	SOL	
PC1400701	ATI	506543	506543-5	KIS142	1330-20-7	XYLENES (TOTAL)	3900	UG/KG	19-Jun-95	21-Jun-95	21-Jun-95	203	SW8020	U	220	UG/KG	100	8%	SOL	
PC1400501	ATI	506543	506543-1	KIS138		METHYL T-BUTYL ETHER	<54	UG/KG	19-Jun-95	20-Jun-95	20-Jun-95	1601	SW8020	U	54	UG/KG	10	7%	SOL	
PC1400601	ATI	506543	506543-3	KIS138		METHYL T-BUTYL ETHER	<53	UG/KG	19-Jun-95	20-Jun-95	20-Jun-95	1713	SW8020	U	53	UG/KG	10	6%	SOL	
PC1400701	ATI	506543	506543-5	KIS142		METHYL T-BUTYL ETHER	<540	UG/KG	19-Jun-95	21-Jun-95	21-Jun-95	203	SW8020	U	540	UG/KG	100	8%	SOL	
PC1400501	ATI	506543	506543-1	KIS138		TRIFLUOROTOLUENE (PID)	111	SUR	19-Jun-95	20-Jun-95	20-Jun-95	1601	SW8020	U	73-123	SUR	1		SOL	SUR
PC1400601	ATI	506543	506543-3	KIS138		TRIFLUOROTOLUENE (PID)	107	SUR	19-Jun-95	20-Jun-95	20-Jun-95	1713	SW8020	U	73-123	SUR	1		SOL	SUR
PC1400701	ATI	506543	506543-5	KIS142		TRIFLUOROTOLUENE (PID)	D	SUR	19-Jun-95	21-Jun-95	21-Jun-95	203	SW8020	U	73-123	SUR	1		SOL	SUR
PC1400502	ATI	506543	506543-2	TPS217		TOTAL PETROLEUM HYDROCARBON	31000	MG/KG	19-Jun-95	20-Jun-95	20-Jun-95	1447	SW9073	U	1100	MG/KG	100	5%	SOL	
PC1400602	ATI	506543	506543-4	TPS217		TOTAL PETROLEUM HYDROCARBON	5200	MG/KG	19-Jun-95	20-Jun-95	20-Jun-95	1455	SW9073	U	100	MG/KG	10	4%	SOL	
PC1400702	ATI	506543	506543-6	TPS217		TOTAL PETROLEUM HYDROCARBON	7000	MG/KG	19-Jun-95	20-Jun-95	20-Jun-95	1459	SW9073	U	110	MG/KG	10	7%	SOL	
PC1400502	ATI	506543	506543-2	R6S123	7440-38-2	ARSENIC (6010)	<5	MG/KG	19-Jun-95	21-Jun-95	22-Jun-95	917	SW6010	F	5	MG/KG	1	5%	SOL	
PC1400602	ATI	506543	506543-4	R6S123	7440-38-2	ARSENIC (6010)	<5	MG/KG	19-Jun-95	21-Jun-95	22-Jun-95	917	SW6010	F	5	MG/KG	1	4%	SOL	
PC1400702	ATI	506543	506543-6	R6S123	7440-38-2	ARSENIC (6010)	<5	MG/KG	19-Jun-95	21-Jun-95	22-Jun-95	917	SW6010	F	5	MG/KG	1	7%	SOL	
PC1400502	ATI	506543	506543-2	B6S123	7440-39-3	BARIUM (6010)	<1	MG/KG	19-Jun-95	21-Jun-95	22-Jun-95	917	SW6010	F	1	MG/KG	1	5%	SOL	
PC1400602	ATI	506543	506543-4	B6S123	7440-39-3	BARIUM (6010)	1	MG/KG	19-Jun-95	21-Jun-95	22-Jun-95	917	SW6010	F	1	MG/KG	1	4%	SOL	
PC1400702	ATI	506543	506543-6	B6S123	7440-39-3	BARIUM (6010)	<1	MG/KG	19-Jun-95	21-Jun-95	22-Jun-95	917	SW6010	F	1	MG/KG	1	7%	SOL	
PC1400502	ATI	506543	506543-2	C6S123	7440-43-9	CADMIUM (6010)	<0.5	MG/KG	19-Jun-95	21-Jun-95	22-Jun-95	917	SW6010	F	0.5	MG/KG	1	5%	SOL	
PC1400602	ATI	506543	506543-4	C6S123	7440-43-9	CADMIUM (6010)	<0.5	MG/KG	19-Jun-95	21-Jun-95	22-Jun-95	917	SW6010	F	0.5	MG/KG	1	4%	SOL	
PC1400702	ATI	506543	506543-6	C6S123	7440-43-9	CADMIUM (6010)	<0.5	MG/KG	19-Jun-95	21-Jun-95	22-Jun-95	917	SW6010	F	0.5	MG/KG	1	7%	SOL	
PC1400502	ATI	506543	506543-2	H6S123	7440-47-3	CHROMIUM (6010)	2	MG/KG	19-Jun-95	21-Jun-95	22-Jun-95	917	SW6010	F	1	MG/KG	1	5%	SOL	
PC1400602	ATI	506543	506543-4	H6S123	7440-47-3	CHROMIUM (6010)	2	MG/KG	19-Jun-95	21-Jun-95	22-Jun-95	917	SW6010	F	1	MG/KG	1	4%	SOL	
PC1400702	ATI	506543	506543-6	H6S123	7440-47-3	CHROMIUM (6010)	2	MG/KG	19-Jun-95	21-Jun-95	22-Jun-95	917	SW6010	F	1	MG/KG	1	7%	SOL	
PC1400502	ATI	506543	506543-2	P6S123	7439-92-1	LEAD (6010)	<5	MG/KG	19-Jun-95	21-Jun-95	22-Jun-95	917	SW6010	F	5	MG/KG	1	5%	SOL	
PC1400602	ATI	506543	506543-4	P6S123	7439-92-1	LEAD (6010)	<5	MG/KG	19-Jun-95	21-Jun-95	22-Jun-95	917	SW6010	F	5	MG/KG	1	4%	SOL	
PC1400702	ATI	506543	506543-6	P6S123	7439-92-1	LEAD (6010)	<5	MG/KG	19-Jun-95	21-Jun-95	22-Jun-95	917	SW6010	F	5	MG/KG	1	7%	SOL	
PC1400502	ATI	506543	506543-2	M4S037	7439-97-6	MERCURY (7471)	<0.1	MG/KG	19-Jun-95	20-Jun-95	20-Jun-95	1128	SW7471	F	0.1	MG/KG	1	5%	SOL	
PC1400602	ATI	506543	506543-4	M4S037	7439-97-6	MERCURY (7471)	<0.1	MG/KG	19-Jun-95	20-Jun-95	20-Jun-95	1128	SW7471	F	0.1	MG/KG	1	4%	SOL	
PC1400702	ATI	506543	506543-6	M4S037	7439-97-6	MERCURY (7471)	<0.1	MG/KG	19-Jun-95	20-Jun-95	20-Jun-95	1128	SW7471	F	0.1	MG/KG	1	7%	SOL	
PC1400502	ATI	506543	506543-2	S6S123	7782-49-2	SELENIUM (6010)	<10	MG/KG	19-Jun-95	21-Jun-95	22-Jun-95	917	SW6010	F	10	MG/KG	1	5%	SOL	
PC1400602	ATI	506543	506543-4	S6S123	7782-49-2	SELENIUM (6010)	<10	MG/KG	19-Jun-95	21-Jun-95	22-Jun-95	917	SW6010	F	10	MG/KG	1	4%	SOL	
PC1400702	ATI	506543	506543-6	S6S123	7782-49-2	SELENIUM (6010)	<10	MG/KG	19-Jun-95	21-Jun-95	22-Jun-95	917	SW6010	F	10	MG/KG	1	7%	SOL	
PC1400502	ATI	506543	506543-2	A6S123	7440-22-4	SILVER (6010)	<1	MG/KG	19-Jun-95	21-Jun-95	22-Jun-95	917	SW6010	F	1	MG/KG	1	5%	SOL	
PC1400602	ATI	506543	506543-4	A6S123	7440-22-4	SILVER (6010)	<1	MG/KG	19-Jun-95	21-Jun-95	22-Jun-95	917	SW6010	F	1	MG/KG	1	4%	SOL	
PC1400702	ATI	506543	506543-6	A6S123	7440-22-4	SILVER (6010)	<1	MG/KG	19-Jun-95	21-Jun-95	22-Jun-95	917	SW6010	F	1	MG/KG	1	7%	SOL	

006893

PANAMA CITY PREBURN SAMPLES

SAMPLE NUMBER 1401201 AND 141202

SAMPLE ID	LAB CODE	SDG	LAB ID	BLANK ID	CAS NO.	ANALYTE	RESULT	UNITS	RECEIVED	PREPPED	ANALYZED	TIME	METHOD	FLAG	METHOD LIMIT	MDL UNITS	DF	MST	MATRIX	STYPE
PC1401201	ATI	507251	507251-1	BLANK ID	71-43-2	BENZENE	<1	UG/KG	14-Jul-95	17-Jul-95	17-Jul-95	1702	SW8020	U	1	UG/KG	1	1%	SOL	
PC1401201	ATI	507251	507251-1	BLANK ID	108-90-7	CHLOROBENZENE	<1	UG/KG	14-Jul-95	17-Jul-95	17-Jul-95	1702	SW8020	U	1	UG/KG	1	1%	SOL	
PC1401201	ATI	507251	507251-1	BLANK ID	95-50-1	1 2-DICHLOROBENZENE	<2	UG/KG	14-Jul-95	17-Jul-95	17-Jul-95	1702	SW8020	U	2	UG/KG	1	1%	SOL	
PC1401201	ATI	507251	507251-1	BLANK ID	541-73-1	1 3-DICHLOROBENZENE	<2	UG/KG	14-Jul-95	17-Jul-95	17-Jul-95	1702	SW8020	U	2	UG/KG	1	1%	SOL	
PC1401201	ATI	507251	507251-1	BLANK ID	106-46-7	1 4-DICHLOROBENZENE	<2	UG/KG	14-Jul-95	17-Jul-95	17-Jul-95	1702	SW8020	U	2	UG/KG	1	1%	SOL	
PC1401201	ATI	507251	507251-1	BLANK ID	100-41-4	ETHYLBENZENE	1	UG/KG	14-Jul-95	17-Jul-95	17-Jul-95	1702	SW8020	U	1	UG/KG	1	1%	SOL	
PC1401201	ATI	507251	507251-1	BLANK ID	108-88-3	TOLUENE	<5	UG/KG	14-Jul-95	17-Jul-95	17-Jul-95	1702	SW8020	U	5	UG/KG	1	1%	SOL	
PC1401201	ATI	507251	507251-1	BLANK ID		XYLENES (TOTAL)	4	UG/KG	14-Jul-95	17-Jul-95	17-Jul-95	1702	SW8020	U	2	UG/KG	1	1%	SOL	
PC1401201	ATI	507251	507251-1	BLANK ID		METHYL T-BUTYL ETHER	<5	UG/KG	14-Jul-95	17-Jul-95	17-Jul-95	1702	SW8020	U	5	UG/KG	1	1%	SOL	
PC1401201	ATI	507251	507251-1	BLANK ID		BROMOFLUOROBENZENE (PID)	103	SUR	14-Jul-95	17-Jul-95	17-Jul-95	1702	SW8020	U	65-130	SUR	1		SOL	SUR
PC1401202	ATI	507251	507251-2	BLANK ID	83-32-9	ACENAPHTHENE	<330	UG/KG	14-Jul-95	14-Jul-95	17-Jul-95	2113	SW8270	U	330	UG/KG	1	0%	SOL	
PC1401202	ATI	507251	507251-2	BLANK ID	208-96-8	ACENAPHTHYLENE	<330	UG/KG	14-Jul-95	14-Jul-95	17-Jul-95	2113	SW8270	U	330	UG/KG	1	0%	SOL	
PC1401202	ATI	507251	507251-2	BLANK ID	120-12-7	ANTHRACENE	<330	UG/KG	14-Jul-95	14-Jul-95	17-Jul-95	2113	SW8270	U	330	UG/KG	1	0%	SOL	
PC1401202	ATI	507251	507251-2	BLANK ID	56-55-3	BENZO(a)ANTHRACENE	<330	UG/KG	14-Jul-95	14-Jul-95	17-Jul-95	2113	SW8270	U	330	UG/KG	1	0%	SOL	
PC1401202	ATI	507251	507251-2	BLANK ID	50-32-8	BENZO(a)PYRENE	<330	UG/KG	14-Jul-95	14-Jul-95	17-Jul-95	2113	SW8270	U	330	UG/KG	1	0%	SOL	
PC1401202	ATI	507251	507251-2	BLANK ID	205-99-2	BENZO(b)FLUORANTHENE	<330	UG/KG	14-Jul-95	14-Jul-95	17-Jul-95	2113	SW8270	U	330	UG/KG	1	0%	SOL	
PC1401202	ATI	507251	507251-2	BLANK ID	191-24-2	BENZO(g h i)PERYLENE	<330	UG/KG	14-Jul-95	14-Jul-95	17-Jul-95	2113	SW8270	U	330	UG/KG	1	0%	SOL	
PC1401202	ATI	507251	507251-2	BLANK ID	207-08-9	BENZO(k)FLUORANTHENE	<330	UG/KG	14-Jul-95	14-Jul-95	17-Jul-95	2113	SW8270	U	330	UG/KG	1	0%	SOL	
PC1401202	ATI	507251	507251-2	BLANK ID	218-01-9	CHRYSENE	<330	UG/KG	14-Jul-95	14-Jul-95	17-Jul-95	2113	SW8270	U	330	UG/KG	1	0%	SOL	
PC1401202	ATI	507251	507251-2	BLANK ID	53-70-3	DIBENZO(a h)ANTHRACENE	<330	UG/KG	14-Jul-95	14-Jul-95	17-Jul-95	2113	SW8270	U	330	UG/KG	1	0%	SOL	
PC1401202	ATI	507251	507251-2	BLANK ID	206-44-0	FLUORANTHENE	<330	UG/KG	14-Jul-95	14-Jul-95	17-Jul-95	2113	SW8270	U	330	UG/KG	1	0%	SOL	
PC1401202	ATI	507251	507251-2	BLANK ID	86-73-7	FLUORENE	<330	UG/KG	14-Jul-95	14-Jul-95	17-Jul-95	2113	SW8270	U	330	UG/KG	1	0%	SOL	
PC1401202	ATI	507251	507251-2	BLANK ID	193-39-5	INDENO(1 2 3-cd)PYRENE	<330	UG/KG	14-Jul-95	14-Jul-95	17-Jul-95	2113	SW8270	U	330	UG/KG	1	0%	SOL	
PC1401202	ATI	507251	507251-2	BLANK ID	91-20-3	NAPHTHALENE	<330	UG/KG	14-Jul-95	14-Jul-95	17-Jul-95	2113	SW8270	U	330	UG/KG	1	0%	SOL	
PC1401202	ATI	507251	507251-2	BLANK ID	85-01-8	PHENANTHRENE	<330	UG/KG	14-Jul-95	14-Jul-95	17-Jul-95	2113	SW8270	U	330	UG/KG	1	0%	SOL	
PC1401202	ATI	507251	507251-2	BLANK ID	129-00-0	PYRENE	<330	UG/KG	14-Jul-95	14-Jul-95	17-Jul-95	2113	SW8270	U	330	UG/KG	1	0%	SOL	
PC1401202	ATI	507251	507251-2	BLANK ID	90-12-0	1-METHYLNAPHTHALENE	<330	UG/KG	14-Jul-95	14-Jul-95	17-Jul-95	2113	SW8270	U	330	UG/KG	1	0%	SOL	
PC1401202	ATI	507251	507251-2	BLANK ID	91-57-6	2-METHYLNAPHTHALENE	<330	UG/KG	14-Jul-95	14-Jul-95	17-Jul-95	2113	SW8270	U	330	UG/KG	1	0%	SOL	
PC1401202	ATI	507251	507251-2	BLANK ID	321-60-8	2-FLUOROBIPHENYL	92	SUR	14-Jul-95	14-Jul-95	17-Jul-95	2113	SW8270	U	30-115	EC/SUR	1		SOL	SUR
PC1401202	ATI	507251	507251-2	BLANK ID	4165-60-0	NITROBENZENE-D5	85	SUR	14-Jul-95	14-Jul-95	17-Jul-95	2113	SW8270	U	23-120	EC/SUR	1		SOL	SUR
PC1401202	ATI	507251	507251-2	BLANK ID	1718-5-0	TERPHENYL-D14	83	SUR	14-Jul-95	14-Jul-95	17-Jul-95	2113	SW8270	U	18-137	EC/SUR	1		SOL	SUR
PC1401202	ATI	507251	507251-2	BLANK ID		TOTAL PETROLEUM HYDROCARBON	26	MG/KG	14-Jul-95	14-Jul-95	14-Jul-95	1606	SW9073	U	10	MG/KG	1	0%	SOL	
PC1401202	ATI	507251	507251-2	BLANK ID	7440-38-2	ARSENIC (6010)	<5	MG/KG	14-Jul-95	14-Jul-95	17-Jul-95	1007	SW6010	U	5	MG/KG	1	0%	SOL	
PC1401202	ATI	507251	507251-2	BLANK ID	7440-39-3	BARIUM (6010)	1	MG/KG	14-Jul-95	14-Jul-95	17-Jul-95	1007	SW6010	U	1	MG/KG	1	0%	SOL	
PC1401202	ATI	507251	507251-2	BLANK ID	7440-43-9	CADMIUM (6010)	<0.5	MG/KG	14-Jul-95	14-Jul-95	17-Jul-95	1007	SW6010	U	0.5	MG/KG	1	0%	SOL	
PC1401202	ATI	507251	507251-2	BLANK ID	7440-47-3	CHROMIUM (6010)	2	MG/KG	14-Jul-95	14-Jul-95	17-Jul-95	1007	SW6010	U	1	MG/KG	1	0%	SOL	
PC1401202	ATI	507251	507251-2	BLANK ID	7439-92-1	LEAD (6010)	<5	MG/KG	14-Jul-95	14-Jul-95	17-Jul-95	1007	SW6010	U	5	MG/KG	1	0%	SOL	
PC1401202	ATI	507251	507251-2	BLANK ID	7439-97-6	MERCURY (7471)	<0.1	MG/KG	14-Jul-95	18-Jul-95	18-Jul-95	1030	SW7471	U	0.1	MG/KG	1	0%	SOL	
PC1401202	ATI	507251	507251-2	BLANK ID	7782-49-2	SELENIUM (6010)	<10	MG/KG	14-Jul-95	14-Jul-95	17-Jul-95	1007	SW6010	U	10	MG/KG	1	0%	SOL	
PC1401202	ATI	507251	507251-2	BLANK ID	7440-22-4	SILVER (6010)	<1	MG/KG	14-Jul-95	14-Jul-95	17-Jul-95	1007	SW6010	U	1	MG/KG	1	0%	SOL	

008893

PANAMA CITY PREBURN SAMPLE RESULTS

SAMPLE NUMBERS 1400801, 1400802, 1400901 AND 1400902

SAMPLE ID	LAB CODE	SDG	LAB ID	BLANK ID	CAS NO.	ANALYTE	RESULT	UNITS	RECEIVED	PREPRED	ANALYZED	TIME	METHOD	FLAG	METHOD LIMIT	MDL UNITS	DF	MST	MATRIX	STYPE
PC1400801&2	ATI	507066	507066-1	LUS117	75-27-4	BROMODICHLOROMETHANE	<1	UG/KG	6-Jul-95	11-Jul-95	11-Jul-95	909	SW8010	U	1	UG/KG	1	4%	SOL	
PC1400901&2	ATI	507066	507066-2	LUS117	75-27-4	BROMODICHLOROMETHANE	<1	UG/KG	6-Jul-95	11-Jul-95	11-Jul-95	1018	SW8010	U	1	UG/KG	1	9%	SOL	
PC1400801&2	ATI	507066	507066-1	LUS117	75-25-2	BROMOFORM	<2	UG/KG	6-Jul-95	11-Jul-95	11-Jul-95	909	SW8010	U	2	UG/KG	1	4%	SOL	
PC1400901&2	ATI	507066	507066-2	LUS117	75-25-2	BROMOFORM	<2	UG/KG	6-Jul-95	11-Jul-95	11-Jul-95	1018	SW8010	U	2	UG/KG	1	9%	SOL	
PC1400801&2	ATI	507066	507066-1	LUS117	74-83-9	BROMOMETHANE	<2	UG/KG	6-Jul-95	11-Jul-95	11-Jul-95	909	SW8010	U	2	UG/KG	1	4%	SOL	
PC1400901&2	ATI	507066	507066-2	LUS117	74-83-9	BROMOMETHANE	<2	UG/KG	6-Jul-95	11-Jul-95	11-Jul-95	1018	SW8010	U	2	UG/KG	1	9%	SOL	
PC1400801&2	ATI	507066	507066-1	LUS117	56-23-5	CARBON TETRACHLORIDE	<1	UG/KG	6-Jul-95	11-Jul-95	11-Jul-95	909	SW8010	U	1	UG/KG	1	4%	SOL	
PC1400901&2	ATI	507066	507066-2	LUS117	56-23-5	CARBON TETRACHLORIDE	<1	UG/KG	6-Jul-95	11-Jul-95	11-Jul-95	1018	SW8010	U	1	UG/KG	1	9%	SOL	
PC1400801&2	ATI	507066	507066-1	LUS117	108-90-7	CHLOROBENZENE	<1	UG/KG	6-Jul-95	11-Jul-95	11-Jul-95	909	SW8010	U	1	UG/KG	1	4%	SOL	
PC1400901&2	ATI	507066	507066-2	LUS117	108-90-7	CHLOROBENZENE	<1	UG/KG	6-Jul-95	11-Jul-95	11-Jul-95	1018	SW8010	U	1	UG/KG	1	9%	SOL	
PC1400801&2	ATI	507066	507066-1	LUS117	75-00-3	CHLOROETHANE	<5	UG/KG	6-Jul-95	11-Jul-95	11-Jul-95	909	SW8010	U	5	UG/KG	1	4%	SOL	
PC1400901&2	ATI	507066	507066-2	LUS117	75-00-3	CHLOROETHANE	<5	UG/KG	6-Jul-95	11-Jul-95	11-Jul-95	1018	SW8010	U	5	UG/KG	1	9%	SOL	
PC1400801&2	ATI	507066	507066-1	LUS117	110-75-8	2-CHLOROETHYLVINYLETHER	<5	UG/KG	6-Jul-95	11-Jul-95	11-Jul-95	909	SW8010	U	5	UG/KG	1	4%	SOL	
PC1400901&2	ATI	507066	507066-2	LUS117	110-75-8	2-CHLOROETHYLVINYLETHER	<5	UG/KG	6-Jul-95	11-Jul-95	11-Jul-95	1018	SW8010	U	5	UG/KG	1	9%	SOL	
PC1400801&2	ATI	507066	507066-1	LUS117	67-66-3	CHLOROFORM	<2	UG/KG	6-Jul-95	11-Jul-95	11-Jul-95	909	SW8010	U	2	UG/KG	1	4%	SOL	
PC1400901&2	ATI	507066	507066-2	LUS117	67-66-3	CHLOROFORM	<2	UG/KG	6-Jul-95	11-Jul-95	11-Jul-95	1018	SW8010	U	2	UG/KG	1	9%	SOL	
PC1400801&2	ATI	507066	507066-1	LUS117	74-87-3	CHLOROMETHANE	<5	UG/KG	6-Jul-95	11-Jul-95	11-Jul-95	909	SW8010	U	5	UG/KG	1	4%	SOL	
PC1400901&2	ATI	507066	507066-2	LUS117	74-87-3	CHLOROMETHANE	<5	UG/KG	6-Jul-95	11-Jul-95	11-Jul-95	1018	SW8010	U	5	UG/KG	1	9%	SOL	
PC1400801&2	ATI	507066	507066-1	LUS117	124-48-1	DIBROMOCHLOROMETHANE	<5	UG/KG	6-Jul-95	11-Jul-95	11-Jul-95	909	SW8010	U	5	UG/KG	1	4%	SOL	
PC1400901&2	ATI	507066	507066-2	LUS117	124-48-1	DIBROMOCHLOROMETHANE	<5	UG/KG	6-Jul-95	11-Jul-95	11-Jul-95	1018	SW8010	U	5	UG/KG	1	9%	SOL	
PC1400801&2	ATI	507066	507066-1	LUS117	95-50-1	1 2-DICHLOROBENZENE	<2	UG/KG	6-Jul-95	11-Jul-95	11-Jul-95	909	SW8010	U	2	UG/KG	1	4%	SOL	
PC1400901&2	ATI	507066	507066-2	LUS117	95-50-1	1 2-DICHLOROBENZENE	<2	UG/KG	6-Jul-95	11-Jul-95	11-Jul-95	1018	SW8010	U	2	UG/KG	1	9%	SOL	
PC1400801&2	ATI	507066	507066-1	LUS117	541-73-1	1 3-DICHLOROBENZENE	<2	UG/KG	6-Jul-95	11-Jul-95	11-Jul-95	909	SW8010	U	2	UG/KG	1	4%	SOL	
PC1400901&2	ATI	507066	507066-2	LUS117	541-73-1	1 3-DICHLOROBENZENE	<2	UG/KG	6-Jul-95	11-Jul-95	11-Jul-95	1018	SW8010	U	2	UG/KG	1	9%	SOL	
PC1400801&2	ATI	507066	507066-1	LUS117	106-46-7	1 4-DICHLOROBENZENE	<2	UG/KG	6-Jul-95	11-Jul-95	11-Jul-95	909	SW8010	U	2	UG/KG	1	4%	SOL	
PC1400901&2	ATI	507066	507066-2	LUS117	106-46-7	1 4-DICHLOROBENZENE	<2	UG/KG	6-Jul-95	11-Jul-95	11-Jul-95	1018	SW8010	U	2	UG/KG	1	9%	SOL	
PC1400801&2	ATI	507066	507066-1	LUS117	75-71-8	DICHLORODIFLUOROMETHANE	<5	UG/KG	6-Jul-95	11-Jul-95	11-Jul-95	909	SW8010	U	5	UG/KG	1	4%	SOL	
PC1400901&2	ATI	507066	507066-2	LUS117	75-71-8	DICHLORODIFLUOROMETHANE	<5	UG/KG	6-Jul-95	11-Jul-95	11-Jul-95	1018	SW8010	U	5	UG/KG	1	9%	SOL	
PC1400801&2	ATI	507066	507066-1	LUS117	75-34-3	1 1-DICHLOROETHANE	<1	UG/KG	6-Jul-95	11-Jul-95	11-Jul-95	909	SW8010	U	1	UG/KG	1	4%	SOL	
PC1400901&2	ATI	507066	507066-2	LUS117	75-34-3	1 1-DICHLOROETHANE	<1	UG/KG	6-Jul-95	11-Jul-95	11-Jul-95	1018	SW8010	U	1	UG/KG	1	9%	SOL	
PC1400801&2	ATI	507066	507066-1	LUS117	107-06-2	1 2-DICHLOROETHANE	<1	UG/KG	6-Jul-95	11-Jul-95	11-Jul-95	909	SW8010	U	1	UG/KG	1	4%	SOL	
PC1400901&2	ATI	507066	507066-2	LUS117	107-06-2	1 2-DICHLOROETHANE	<1	UG/KG	6-Jul-95	11-Jul-95	11-Jul-95	1018	SW8010	U	1	UG/KG	1	9%	SOL	
PC1400801&2	ATI	507066	507066-1	LUS117	75-35-4	1 1-DICHLOROETHENE	<1	UG/KG	6-Jul-95	11-Jul-95	11-Jul-95	909	SW8010	U	1	UG/KG	1	4%	SOL	
PC1400901&2	ATI	507066	507066-2	LUS117	75-35-4	1 1-DICHLOROETHENE	<1	UG/KG	6-Jul-95	11-Jul-95	11-Jul-95	1018	SW8010	U	1	UG/KG	1	9%	SOL	
PC1400801&2	ATI	507066	507066-1	LUS117	156-60-5	TRANS 1 2 DICHLOROETHENE	<1	UG/KG	6-Jul-95	11-Jul-95	11-Jul-95	909	SW8010	U	1	UG/KG	1	4%	SOL	
PC1400901&2	ATI	507066	507066-2	LUS117	156-60-5	TRANS 1 2 DICHLOROETHENE	<1	UG/KG	6-Jul-95	11-Jul-95	11-Jul-95	1018	SW8010	U	1	UG/KG	1	9%	SOL	
PC1400801&2	ATI	507066	507066-1	LUS117	78-87-5	1 2-DICHLOROPROPANE	<1	UG/KG	6-Jul-95	11-Jul-95	11-Jul-95	909	SW8010	U	1	UG/KG	1	4%	SOL	
PC1400901&2	ATI	507066	507066-2	LUS117	78-87-5	1 2-DICHLOROPROPANE	<1	UG/KG	6-Jul-95	11-Jul-95	11-Jul-95	1018	SW8010	U	1	UG/KG	1	9%	SOL	
PC1400801&2	ATI	507066	507066-1	LUS117	10061-01-5	CIS-1 3-DICHLOROPROPENE	<1	UG/KG	6-Jul-95	11-Jul-95	11-Jul-95	909	SW8010	U	1	UG/KG	1	4%	SOL	
PC1400901&2	ATI	507066	507066-2	LUS117	10061-01-5	CIS-1 3-DICHLOROPROPENE	<1	UG/KG	6-Jul-95	11-Jul-95	11-Jul-95	1018	SW8010	U	1	UG/KG	1	9%	SOL	
PC1400801&2	ATI	507066	507066-1	LUS117	10061-02-6	TRANS-1 3-DICHLOROPROPENE	<1	UG/KG	6-Jul-95	11-Jul-95	11-Jul-95	909	SW8010	U	1	UG/KG	1	4%	SOL	
PC1400901&2	ATI	507066	507066-2	LUS117	10061-02-6	TRANS-1 3-DICHLOROPROPENE	<1	UG/KG	6-Jul-95	11-Jul-95	11-Jul-95	1018	SW8010	U	1	UG/KG	1	9%	SOL	
PC1400801&2	ATI	507066	507066-1	LUS117	75-09-2	METHYLENE CHLORIDE	<5	UG/KG	6-Jul-95	11-Jul-95	11-Jul-95	909	SW8010	U	5	UG/KG	1	4%	SOL	

008893

PANAMA CITY PREBURN SAMPLE RESULTS

SAMPLE NUMBERS 1400801, 1400802, 1400901 AND 1400902

SAMPLE ID	LAB CODE	SDG	LAB ID	BLANK ID	CAS NO.	ANALYTE	RESULT	UNITS	RECEIVED	PREPRED	ANALYZED	TIME	METHOD	FLAG	METHOD LIMIT	MDL UNITS	DF	MST	MATRIX	STYPE
PC1400901&2	ATI	507066	507066-2	LUS117	75-09-2	METHYLENE CHLORIDE	<5	UG/KG	6-Jul-95	11-Jul-95	11-Jul-95	1018	SW8010	U	5	UG/KG	1	9%	SOL	
PC1400801&2	ATI	507066	507066-1	LUS117	79-34-5	1 1 2 2-TETRACHLOROETHANE	<1	UG/KG	6-Jul-95	11-Jul-95	11-Jul-95	909	SW8010	U	1	UG/KG	1	4%	SOL	
PC1400901&2	ATI	507066	507066-2	LUS117	79-34-5	1 1 2 2-TETRACHLOROETHANE	<1	UG/KG	6-Jul-95	11-Jul-95	11-Jul-95	1018	SW8010	U	1	UG/KG	1	9%	SOL	
PC1400801&2	ATI	507066	507066-1	LUS117		TETRACHLOROETHENE	<3	UG/KG	6-Jul-95	11-Jul-95	11-Jul-95	909	SW8010	U	3	UG/KG	1	4%	SOL	
PC1400901&2	ATI	507066	507066-2	LUS117		TETRACHLOROETHENE	<3	UG/KG	6-Jul-95	11-Jul-95	11-Jul-95	1018	SW8010	U	3	UG/KG	1	9%	SOL	
PC1400801&2	ATI	507066	507066-1	LUS117	71-55-6	1 1 1-TRICHLOROETHANE	<1	UG/KG	6-Jul-95	11-Jul-95	11-Jul-95	909	SW8010	U	1	UG/KG	1	4%	SOL	
PC1400901&2	ATI	507066	507066-2	LUS117	71-55-6	1 1 1-TRICHLOROETHANE	<1	UG/KG	6-Jul-95	11-Jul-95	11-Jul-95	1018	SW8010	U	1	UG/KG	1	9%	SOL	
PC1400801&2	ATI	507066	507066-1	LUS117	79-00-5	1 1 2-TRICHLOROETHANE	<2	UG/KG	6-Jul-95	11-Jul-95	11-Jul-95	909	SW8010	U	2	UG/KG	1	4%	SOL	
PC1400901&2	ATI	507066	507066-2	LUS117	79-00-5	1 1 2-TRICHLOROETHANE	<2	UG/KG	6-Jul-95	11-Jul-95	11-Jul-95	1018	SW8010	U	2	UG/KG	1	9%	SOL	
PC1400801&2	ATI	507066	507066-1	LUS117	79-01-6	TRICHLOROETHENE	<1	UG/KG	6-Jul-95	11-Jul-95	11-Jul-95	909	SW8010	U	1	UG/KG	1	4%	SOL	
PC1400901&2	ATI	507066	507066-2	LUS117	79-01-6	TRICHLOROETHENE	<1	UG/KG	6-Jul-95	11-Jul-95	11-Jul-95	1018	SW8010	U	1	UG/KG	1	9%	SOL	
PC1400801&2	ATI	507066	507066-1	LUS117	124-48-1	TRICHLOROFLUOROMETHANE	<2	UG/KG	6-Jul-95	11-Jul-95	11-Jul-95	909	SW8010	U	2	UG/KG	1	4%	SOL	
PC1400901&2	ATI	507066	507066-2	LUS117	124-48-1	TRICHLOROFLUOROMETHANE	<2	UG/KG	6-Jul-95	11-Jul-95	11-Jul-95	1018	SW8010	U	2	UG/KG	1	9%	SOL	
PC1400801&2	ATI	507066	507066-1	LUS117	75-01-4	VINYL CHLORIDE	<1	UG/KG	6-Jul-95	11-Jul-95	11-Jul-95	909	SW8010	U	1	UG/KG	1	4%	SOL	
PC1400901&2	ATI	507066	507066-2	LUS117	75-01-4	VINYL CHLORIDE	<1	UG/KG	6-Jul-95	11-Jul-95	11-Jul-95	1018	SW8010	U	1	UG/KG	1	9%	SOL	
PC1400801&2	ATI	507066	507066-1	LUS117		BENZYL CHLORIDE	<5	G/KG*	6-Jul-95	11-Jul-95	11-Jul-95	909	SW8010	U	5	G/KG*	1	4%	SOL	
PC1400901&2	ATI	507066	507066-2	LUS117		BENZYL CHLORIDE	<5	G/KG*	6-Jul-95	11-Jul-95	11-Jul-95	1018	SW8010	U	5	G/KG*	1	9%	SOL	
PC1400801&2	ATI	507066	507066-1	LUS117		BROMOBENZENE	<3	G/KG*	6-Jul-95	11-Jul-95	11-Jul-95	909	SW8010	U	3	G/KG*	1	4%	SOL	
PC1400901&2	ATI	507066	507066-2	LUS117		BROMOBENZENE	<3	G/KG*	6-Jul-95	11-Jul-95	11-Jul-95	1018	SW8010	U	3	G/KG*	1	9%	SOL	
PC1400801&2	ATI	507066	507066-1	LUS117		DIBROMOMETHANE	<5	G/KG*	6-Jul-95	11-Jul-95	11-Jul-95	909	SW8010	U	5	G/KG*	1	4%	SOL	
PC1400901&2	ATI	507066	507066-2	LUS117		DIBROMOMETHANE	<5	G/KG*	6-Jul-95	11-Jul-95	11-Jul-95	1018	SW8010	U	5	G/KG*	1	9%	SOL	
PC1400801&2	ATI	507066	507066-1	LUS117		1 1 1 2 TETRACHLOROETHANE	<1	G/KG*	6-Jul-95	11-Jul-95	11-Jul-95	909	SW8010	U	1	G/KG*	1	4%	SOL	
PC1400901&2	ATI	507066	507066-2	LUS117		1 1 1 2 TETRACHLOROETHANE	<1	G/KG*	6-Jul-95	11-Jul-95	11-Jul-95	1018	SW8010	U	1	G/KG*	1	9%	SOL	
PC1400801&2	ATI	507066	507066-1	LUS117		1 2 3 TRICHLOROPROPANE	<5	G/KG*	6-Jul-95	11-Jul-95	11-Jul-95	909	SW8010	U	5	G/KG*	1	4%	SOL	
PC1400901&2	ATI	507066	507066-2	LUS117		1 2 3 TRICHLOROPROPANE	<5	G/KG*	6-Jul-95	11-Jul-95	11-Jul-95	1018	SW8010	U	5	G/KG*	1	9%	SOL	
PC1400801&2	ATI	507066	507066-1	LUS117		BROMOFLUOROBENZENE (ELCD)	77	EC/SU	6-Jul-95	11-Jul-95	11-Jul-95	909	SW8010	U	69-126	SUR	1		SOL	SUR
PC1400901&2	ATI	507066	507066-2	LUS117		BROMOFLUOROBENZENE (ELCD)	69	EC/SU	6-Jul-95	11-Jul-95	11-Jul-95	1018	SW8010	U	69-126	SUR	1		SOL	SUR
PC1400801&2	ATI	507066	507066-1	LUS117	71-43-2	BENZENE	<1	UG/KG	6-Jul-95	11-Jul-95	11-Jul-95	909	SW8020	U	1	UG/KG	1	4%	SOL	
PC1400901&2	ATI	507066	507066-2	KIS158	71-43-2	BENZENE	<11	UG/KG	6-Jul-95	11-Jul-95	11-Jul-95	1403	SW8020	U	11	UG/KG	10	9%	SOL	
PC1400801&2	ATI	507066	507066-1	LUS117	108-90-7	CHLOROBENZENE	<1	UG/KG	6-Jul-95	11-Jul-95	11-Jul-95	909	SW8020	U	1	UG/KG	1	4%	SOL	
PC1400901&2	ATI	507066	507066-2	KIS158	108-90-7	CHLOROBENZENE	<11	UG/KG	6-Jul-95	11-Jul-95	11-Jul-95	1403	SW8020	U	11	UG/KG	10	9%	SOL	
PC1400801&2	ATI	507066	507066-1	LUS117	95-50-1	1 2-DICHLOROBENZENE	<2	UG/KG	6-Jul-95	11-Jul-95	11-Jul-95	909	SW8020	U	2	UG/KG	1	4%	SOL	
PC1400901&2	ATI	507066	507066-2	KIS158	95-50-1	1 2-DICHLOROBENZENE	<22	UG/KG	6-Jul-95	11-Jul-95	11-Jul-95	1403	SW8020	U	22	UG/KG	10	9%	SOL	
PC1400801&2	ATI	507066	507066-1	LUS117	541-73-1	1 3-DICHLOROBENZENE	<2	UG/KG	6-Jul-95	11-Jul-95	11-Jul-95	909	SW8020	U	2	UG/KG	1	4%	SOL	
PC1400901&2	ATI	507066	507066-2	KIS158	541-73-1	1 3-DICHLOROBENZENE	<22	UG/KG	6-Jul-95	11-Jul-95	11-Jul-95	1403	SW8020	U	22	UG/KG	10	9%	SOL	
PC1400801&2	ATI	507066	507066-1	LUS117	106-46-7	1 4-DICHLOROBENZENE	<2	UG/KG	6-Jul-95	11-Jul-95	11-Jul-95	909	SW8020	U	2	UG/KG	1	4%	SOL	
PC1400901&2	ATI	507066	507066-2	KIS158	106-46-7	1 4-DICHLOROBENZENE	<22	UG/KG	6-Jul-95	11-Jul-95	11-Jul-95	1403	SW8020	U	22	UG/KG	10	9%	SOL	
PC1400801&2	ATI	507066	507066-1	LUS117	100-41-4	ETHYLBENZENE	<1	UG/KG	6-Jul-95	11-Jul-95	11-Jul-95	909	SW8020	U	1	UG/KG	1	4%	SOL	
PC1400901&2	ATI	507066	507066-2	KIS158	100-41-4	ETHYLBENZENE	1400	UG/KG	6-Jul-95	11-Jul-95	11-Jul-95	1403	SW8020	U	11	UG/KG	10	9%	SOL	
PC1400801&2	ATI	507066	507066-1	LUS117	108-88-3	TOLUENE	<5	UG/KG	6-Jul-95	11-Jul-95	11-Jul-95	909	SW8020	U	5	UG/KG	1	4%	SOL	
PC1400901&2	ATI	507066	507066-2	KIS158	108-88-3	TOLUENE	<55	UG/KG	6-Jul-95	11-Jul-95	11-Jul-95	1403	SW8020	U	55	UG/KG	10	9%	SOL	
PC1400801&2	ATI	507066	507066-1	LUS117	1330-20-7	XYLENES (TOTAL)	<2	UG/KG	6-Jul-95	11-Jul-95	11-Jul-95	909	SW8020	U	2	UG/KG	1	4%	SOL	
PC1400901&2	ATI	507066	507066-2	KIS158	1330-20-7	XYLENES (TOTAL)	3700	UG/KG	6-Jul-95	11-Jul-95	11-Jul-95	1403	SW8020	U	22	UG/KG	10	9%	SOL	

PANAMA CITY PREBURN SAMPLE RESULTS

SAMPLE NUMBERS 1400801, 1400802, 1400901 AND 1400902

SAMPLE ID	LAB CODE	SDG	LAB ID	BLANK ID	CAS NO.	ANALYTE	RESULT	UNITS	RECEIVED	PREPRED	ANALYZED	TIME	METHOD	FLAG	METHOD LIMIT	MDL UNITS	DF	MST	MATRIX	STYPE
PC1400801&2	ATI	507066	507066-1	LUS117		METHYL T-BUTYL ETHER	<5	UG/KG	6-Jul-95	11-Jul-95	11-Jul-95	909	SW8020	U	5	UG/KG	1	4%	SOL	
PC1400901&2	ATI	507066	507066-2	KIS158		METHYL T-BUTYL ETHER	<55	UG/KG	6-Jul-95	11-Jul-95	11-Jul-95	1403	SW8020	U	55	UG/KG	10	9%	SOL	
PC1400801&2	ATI	507066	507066-1	LUS117		BROMOFLUOROBENZENE (PID)	89	EC/SU	6-Jul-95	11-Jul-95	11-Jul-95	909	SW8020	U	65-130	SUR	1		SOL	SUR
PC1400901&2	ATI	507066	507066-2	KIS158		TRIFLUOROTOLUENE (PID)	105	EC/SU	6-Jul-95	11-Jul-95	11-Jul-95	1403	SW8020	U	73-123	SUR	1		SOL	SUR
PC1400801&2	ATI	507066	507066-1	TPS225		TOTAL PETROLEUM HYDROCARBON	510	MG/KG	6-Jul-95	7-Jul-95	10-Jul-95	1627	SW9073	U	10	MG/KG	1	4%	SOL	
PC1400901&2	ATI	507066	507066-2	TPS225		TOTAL PETROLEUM HYDROCARBON	2700	MG/KG	6-Jul-95	7-Jul-95	10-Jul-95	1630	SW9073	U	110	MG/KG	10	9%	SOL	
PC1400801&2	ATI	507066	507066-1	R6S137	7440-38-2	ARSENIC (6010)	<5	MG/KG	6-Jul-95	7-Jul-95	10-Jul-95	1026	SW6010	U	5	MG/KG	1	4%	SOL	
PC1400901&2	ATI	507066	507066-2	R6S137	7440-38-2	ARSENIC (6010)	<5	MG/KG	6-Jul-95	7-Jul-95	10-Jul-95	1026	SW6010	U	5	MG/KG	1	9%	SOL	
PC1400801&2	ATI	507066	507066-1	B6S137	7440-39-3	BARIUM (6010)	1	MG/KG	6-Jul-95	7-Jul-95	10-Jul-95	1026	SW6010	U	1	MG/KG	1	4%	SOL	
PC1400901&2	ATI	507066	507066-2	B6S137	7440-39-3	BARIUM (6010)	1	MG/KG	6-Jul-95	7-Jul-95	10-Jul-95	1026	SW6010	U	1	MG/KG	1	9%	SOL	
PC1400801&2	ATI	507066	507066-1	C6S137	7440-43-9	CADMIUM (6010)	<0.5	MG/KG	6-Jul-95	7-Jul-95	10-Jul-95	1026	SW6010	U	0.5	MG/KG	1	4%	SOL	
PC1400901&2	ATI	507066	507066-2	C6S137	7440-43-9	CADMIUM (6010)	<0.5	MG/KG	6-Jul-95	7-Jul-95	10-Jul-95	1026	SW6010	U	0.5	MG/KG	1	9%	SOL	
PC1400801&2	ATI	507066	507066-1	H6S137	7440-47-3	CHROMIUM (6010)	3	MG/KG	6-Jul-95	7-Jul-95	10-Jul-95	1026	SW6010	U	1	MG/KG	1	4%	SOL	
PC1400901&2	ATI	507066	507066-2	H6S137	7440-47-3	CHROMIUM (6010)	2	MG/KG	6-Jul-95	7-Jul-95	10-Jul-95	1026	SW6010	U	1	MG/KG	1	9%	SOL	
PC1400801&2	ATI	507066	507066-1	P6S137	7439-92-1	LEAD (6010)	<5	MG/KG	6-Jul-95	7-Jul-95	10-Jul-95	1026	SW6010	U	5	MG/KG	1	4%	SOL	
PC1400901&2	ATI	507066	507066-2	P6S137	7439-92-1	LEAD (6010)	<5	MG/KG	6-Jul-95	7-Jul-95	10-Jul-95	1026	SW6010	U	5	MG/KG	1	9%	SOL	
PC1400801&2	ATI	507066	507066-1	M4S041	7439-97-6	MERCURY (7471)	<0.1	MG/KG	6-Jul-95	10-Jul-95	10-Jul-95	1117	SW7471	U	0.1	MG/KG	1	4%	SOL	
PC1400901&2	ATI	507066	507066-2	M4S041	7439-97-6	MERCURY (7471)	<0.1	MG/KG	6-Jul-95	10-Jul-95	10-Jul-95	1117	SW7471	U	0.1	MG/KG	1	9%	SOL	
PC1400801&2	ATI	507066	507066-1	S6S137	7782-49-2	SELENIUM (6010)	<10	MG/KG	6-Jul-95	7-Jul-95	10-Jul-95	1026	SW6010	U	10	MG/KG	1	4%	SOL	
PC1400901&2	ATI	507066	507066-2	S6S137	7782-49-2	SELENIUM (6010)	<10	MG/KG	6-Jul-95	7-Jul-95	10-Jul-95	1026	SW6010	U	10	MG/KG	1	9%	SOL	
PC1400801&2	ATI	507066	507066-1	A6S137	7440-22-4	SILVER (6010)	<1	MG/KG	6-Jul-95	7-Jul-95	10-Jul-95	1026	SW6010	U	1	MG/KG	1	4%	SOL	
PC1400901&2	ATI	507066	507066-2	A6S137	7440-22-4	SILVER (6010)	<1	MG/KG	6-Jul-95	7-Jul-95	10-Jul-95	1026	SW6010	U	1	MG/KG	1	9%	SOL	

PANAMA CITY POST BURN SAMPLE RESULTS

SAMPLE NUMBERS 1401001 AND 1401002

SAMPLE ID	LAB CODE	SDG	LAB ID	BLANK ID	CAS NO.	ANALYTE	RESULT	UNITS	RECEIVED	PREPARED	ANALYZED	TIME	METHOD	FLAG	METHOD LIMIT	MDL UNITS	DF	MST	MATRIX	STYPE
PC1401001	ATI	507075	507075-1	TRS139	71-43-2	BENZENE	5	UG/KG	7-Jul-95	8-Jul-95	8-Jul-95	825	SW8020	U	1	UG/KG	1	1%	SOL	
PC1401001	ATI	507075	507075-1	TRS139	108-90-7	CHLOROBENZENE	<1	UG/KG	7-Jul-95	8-Jul-95	8-Jul-95	825	SW8020	U	1	UG/KG	1	1%	SOL	
PC1401001	ATI	507075	507075-1	TRS139	95-50-1	1 2-DICHLOROBENZENE	<2	UG/KG	7-Jul-95	8-Jul-95	8-Jul-95	825	SW8020	U	2	UG/KG	1	1%	SOL	
PC1401001	ATI	507075	507075-1	TRS139	541-73-1	1 3-DICHLOROBENZENE	<2	UG/KG	7-Jul-95	8-Jul-95	8-Jul-95	825	SW8020	U	2	UG/KG	1	1%	SOL	
PC1401001	ATI	507075	507075-1	TRS139	106-46-7	1 4-DICHLOROBENZENE	<2	UG/KG	7-Jul-95	8-Jul-95	8-Jul-95	825	SW8020	U	2	UG/KG	1	1%	SOL	
PC1401001	ATI	507075	507075-1	TRS139	100-41-4	ETHYLBENZENE	<1	UG/KG	7-Jul-95	8-Jul-95	8-Jul-95	825	SW8020	U	1	UG/KG	1	1%	SOL	
PC1401001	ATI	507075	507075-1	TRS139	108-88-3	TOLUENE	7	UG/KG	7-Jul-95	8-Jul-95	8-Jul-95	825	SW8020	U	5	UG/KG	1	1%	SOL	
PC1401001	ATI	507075	507075-1	TRS139		XYLENES (TOTAL)	6	UG/KG	7-Jul-95	8-Jul-95	8-Jul-95	825	SW8020	U	2	UG/KG	1	1%	SOL	
PC1401001	ATI	507075	507075-1	TRS139		METHYL T-BUTYL ETHER	<5	UG/KG	7-Jul-95	8-Jul-95	8-Jul-95	825	SW8020	U	5	UG/KG	1	1%	SOL	
PC1401001	ATI	507075	507075-1	TRS139		TRIFLUOROTOLUENE (PID)	75	SUR	7-Jul-95	8-Jul-95	8-Jul-95	825	SW8020	U	73-123	SUR	1		SOL	SUR
PC1401002	ATI	507075	507075-2	ALS103	83-32-9	ACENAPHTHENE	<330	UG/KG	7-Jul-95	7-Jul-95	10-Jul-95	1139	SW8270	U	330	UG/KG	1	1%	SOL	
PC1401002	ATI	507075	507075-2	ALS103	208-96-8	ACENAPHTHYLENE	<330	UG/KG	7-Jul-95	7-Jul-95	10-Jul-95	1139	SW8270	U	330	UG/KG	1	1%	SOL	
PC1401002	ATI	507075	507075-2	ALS103	120-12-7	ANTHRACENE	<330	UG/KG	7-Jul-95	7-Jul-95	10-Jul-95	1139	SW8270	U	330	UG/KG	1	1%	SOL	
PC1401002	ATI	507075	507075-2	ALS103	56-55-3	BENZO(a)ANTHRACENE	<330	UG/KG	7-Jul-95	7-Jul-95	10-Jul-95	1139	SW8270	U	330	UG/KG	1	1%	SOL	
PC1401002	ATI	507075	507075-2	ALS103	50-32-8	BENZO(a)PYRENE	<330	UG/KG	7-Jul-95	7-Jul-95	10-Jul-95	1139	SW8270	U	330	UG/KG	1	1%	SOL	
PC1401002	ATI	507075	507075-2	ALS103	205-99-2	BENZO(b)FLUORANTHENE	<330	UG/KG	7-Jul-95	7-Jul-95	10-Jul-95	1139	SW8270	U	330	UG/KG	1	1%	SOL	
PC1401002	ATI	507075	507075-2	ALS103	191-24-2	BENZO(g h i)PERYLENE	<330	UG/KG	7-Jul-95	7-Jul-95	10-Jul-95	1139	SW8270	U	330	UG/KG	1	1%	SOL	
PC1401002	ATI	507075	507075-2	ALS103	207-08-9	BENZO(k)FLUORANTHENE	<330	UG/KG	7-Jul-95	7-Jul-95	10-Jul-95	1139	SW8270	U	330	UG/KG	1	1%	SOL	
PC1401002	ATI	507075	507075-2	ALS103	218-01-9	CHRYSENE	<330	UG/KG	7-Jul-95	7-Jul-95	10-Jul-95	1139	SW8270	U	330	UG/KG	1	1%	SOL	
PC1401002	ATI	507075	507075-2	ALS103	53-70-3	DIBENZO(a h)ANTHRACENE	<330	UG/KG	7-Jul-95	7-Jul-95	10-Jul-95	1139	SW8270	U	330	UG/KG	1	1%	SOL	
PC1401002	ATI	507075	507075-2	ALS103	206-44-0	FLUORANTHENE	<330	UG/KG	7-Jul-95	7-Jul-95	10-Jul-95	1139	SW8270	U	330	UG/KG	1	1%	SOL	
PC1401002	ATI	507075	507075-2	ALS103	86-73-7	FLUORENE	<330	UG/KG	7-Jul-95	7-Jul-95	10-Jul-95	1139	SW8270	U	330	UG/KG	1	1%	SOL	
PC1401002	ATI	507075	507075-2	ALS103	193-39-5	INDENO(1 2 3-cd)PYRENE	<330	UG/KG	7-Jul-95	7-Jul-95	10-Jul-95	1139	SW8270	U	330	UG/KG	1	1%	SOL	
PC1401002	ATI	507075	507075-2	ALS103	91-20-3	NAPHTHALENE	<330	UG/KG	7-Jul-95	7-Jul-95	10-Jul-95	1139	SW8270	U	330	UG/KG	1	1%	SOL	
PC1401002	ATI	507075	507075-2	ALS103	85-01-8	PHENANTHRENE	<330	UG/KG	7-Jul-95	7-Jul-95	10-Jul-95	1139	SW8270	U	330	UG/KG	1	1%	SOL	
PC1401002	ATI	507075	507075-2	ALS103	129-00-0	PYRENE	<330	UG/KG	7-Jul-95	7-Jul-95	10-Jul-95	1139	SW8270	U	330	UG/KG	1	1%	SOL	
PC1401002	ATI	507075	507075-2	ALS103	90-12-0	1-METHYLNAPHTHALENE	<330	UG/KG	7-Jul-95	7-Jul-95	10-Jul-95	1139	SW8270	U	330	UG/KG	1	1%	SOL	
PC1401002	ATI	507075	507075-2	ALS103	91-57-6	2-METHYLNAPHTHALENE	<330	UG/KG	7-Jul-95	7-Jul-95	10-Jul-95	1139	SW8270	U	330	UG/KG	1	1%	SOL	
PC1401002	ATI	507075	507075-2	ALS103	321-60-8	2-FLUOROBIPHENYL	82	SUR	7-Jul-95	7-Jul-95	10-Jul-95	1139	SW8270	U	30-115	SUR	1		SOL	SUR
PC1401002	ATI	507075	507075-2	ALS103	4165-60-0	NITROBENZENE-D5	79	SUR	7-Jul-95	7-Jul-95	10-Jul-95	1139	SW8270	U	23-120	SUR	1		SOL	SUR
PC1401002	ATI	507075	507075-2	ALS103	1718-5-0	TERPHENYL-D14	78	SUR	7-Jul-95	7-Jul-95	10-Jul-95	1139	SW8270	U	18-137	SUR	1		SOL	SUR
PC1401002	ATI	507075	507075-2	TPS225		TOTAL PETROLEUM HYDROCARBON	<10	MG/KG	7-Jul-95	7-Jul-95	11-Jul-95	824	SW9073	U	10	MG/KG	1	1%	SOL	
PC1401002	ATI	507075	507075-2	R6S139	7440-38-2	ARSENIC (6010)	<5	MG/KG	7-Jul-95	10-Jul-95	11-Jul-95	1242	SW6010	U	5	MG/KG	1	1%	SOL	
PC1401002	ATI	507075	507075-2	B6S139	7440-39-3	BARIUM (6010)	2	MG/KG	7-Jul-95	10-Jul-95	11-Jul-95	1242	SW6010	U	1	MG/KG	1	1%	SOL	
PC1401002	ATI	507075	507075-2	C6S139	7440-43-9	CADMIUM (6010)	<0.5	MG/KG	7-Jul-95	10-Jul-95	11-Jul-95	1242	SW6010	U	0.5	MG/KG	1	1%	SOL	
PC1401002	ATI	507075	507075-2	H6S139	7440-47-3	CHROMIUM (6010)	2	MG/KG	7-Jul-95	10-Jul-95	11-Jul-95	1242	SW6010	U	1	MG/KG	1	1%	SOL	
PC1401002	ATI	507075	507075-2	P6S139	7439-92-1	LEAD (6010)	<5	MG/KG	7-Jul-95	10-Jul-95	11-Jul-95	1242	SW6010	U	5	MG/KG	1	1%	SOL	
PC1401002	ATI	507075	507075-2	M4S041	7439-97-6	MERCURY (7471)	<0 1	MG/KG	7-Jul-95	10-Jul-95	10-Jul-95	1117	SW7471	U	0.1	MG/KG	1	1%	SOL	
PC1401002	ATI	507075	507075-2	S6S139	7782-49-2	SELENIUM (6010)	<10	MG/KG	7-Jul-95	10-Jul-95	11-Jul-95	1242	SW6010	U	10	MG/KG	1	1%	SOL	
PC1401002	ATI	507075	507075-2	A6S139	7440-22-4	SILVER (6010)	<1	MG/KG	7-Jul-95	10-Jul-95	11-Jul-95	1242	SW6010	U	1	MG/KG	1	1%	SOL	

PANAMA CITY PREBURN SAMPLE RESULTS

SAMPLE NUMBERS 1401101 AND 1401102

SAMPLE ID	LAB CODE	SDG	LAB ID	BLANK ID	CAS NO.	ANALYTE	RESULT	UNITS	RECEIVED	PREPARED	ANALYZED	TIME	METHOD	FLAG	METHOD LIMIT	MDL UNITS	DF	MST	MATRIX	STYPE
PC1401101	ATI	507145	507145-1	KIS158	71-43-2	BENZENE	<1	UG/KG	10-Jul-1995	12-Jul-1995	12-Jul-1995	1330	SW8020	U	1	UG/KG	1	5%	SOL	
PC1401101	ATI	507145	507145-1	KIS158	108-90-7	CHLOROBENZENE	<1	UG/KG	10-Jul-1995	12-Jul-1995	12-Jul-1995	1330	SW8020	U	1	UG/KG	1	5%	SOL	
PC1401101	ATI	507145	507145-1	KIS158	95-50-1	1 2-DICHLOROBENZENE	<2	UG/KG	10-Jul-1995	12-Jul-1995	12-Jul-1995	1330	SW8020	U	2	UG/KG	1	5%	SOL	
PC1401101	ATI	507145	507145-1	KIS158	541-73-1	1 3-DICHLOROBENZENE	<2	UG/KG	10-Jul-1995	12-Jul-1995	12-Jul-1995	1330	SW8020	U	2	UG/KG	1	5%	SOL	
PC1401101	ATI	507145	507145-1	KIS158	106-46-7	1 4-DICHLOROBENZENE	<2	UG/KG	10-Jul-1995	12-Jul-1995	12-Jul-1995	1330	SW8020	U	2	UG/KG	1	5%	SOL	
PC1401101	ATI	507145	507145-1	KIS158	100-41-4	ETHYLBENZENE	<1	UG/KG	10-Jul-1995	12-Jul-1995	12-Jul-1995	1330	SW8020	U	1	UG/KG	1	5%	SOL	
PC1401101	ATI	507145	507145-1	KIS158	108-88-3	TOLUENE	<5	UG/KG	10-Jul-1995	12-Jul-1995	12-Jul-1995	1330	SW8020	U	5	UG/KG	1	5%	SOL	
PC1401101	ATI	507145	507145-1	KIS158		XYLENES (TOTAL)	<2	UG/KG	10-Jul-1995	12-Jul-1995	12-Jul-1995	1330	SW8020	U	2	UG/KG	1	5%	SOL	
PC1401101	ATI	507145	507145-1	KIS158		METHYL T-BUTYL ETHER	<5	UG/KG	10-Jul-1995	12-Jul-1995	12-Jul-1995	1330	SW8020	U	5	UG/KG	1	5%	SOL	
PC1401101	ATI	507145	507145-1	KIS158		TRIFLUOROTOLUENE (PID)	109	SUR	10-Jul-1995	12-Jul-1995	12-Jul-1995	1330	SW8020	U	73-123	SUR	1		SOL	SUR
PC1401102	ATI	507145	507145-2	ALS104	83-32-9	ACENAPHTHENE	<350	UG/KG	10-Jul-1995	10-Jul-1995	11-Jul-1995	2306	SW8270	U	350	UG/KG	1	5%	SOL	
PC1401102	ATI	507145	507145-2	ALS104	208-96-8	ACENAPHTHYLENE	<350	UG/KG	10-Jul-1995	10-Jul-1995	11-Jul-1995	2306	SW8270	U	350	UG/KG	1	5%	SOL	
PC1401102	ATI	507145	507145-2	ALS104	120-12-7	ANTHRACENE	<350	UG/KG	10-Jul-1995	10-Jul-1995	11-Jul-1995	2306	SW8270	U	350	UG/KG	1	5%	SOL	
PC1401102	ATI	507145	507145-2	ALS104	56-55-3	BENZO(a)ANTHRACENE	<350	UG/KG	10-Jul-1995	10-Jul-1995	11-Jul-1995	2306	SW8270	U	350	UG/KG	1	5%	SOL	
PC1401102	ATI	507145	507145-2	ALS104	50-32-8	BENZO(a)PYRENE	<350	UG/KG	10-Jul-1995	10-Jul-1995	11-Jul-1995	2306	SW8270	U	350	UG/KG	1	5%	SOL	
PC1401102	ATI	507145	507145-2	ALS104	205-99-2	BENZO(b)FLUORANTHENE	<350	UG/KG	10-Jul-1995	10-Jul-1995	11-Jul-1995	2306	SW8270	U	350	UG/KG	1	5%	SOL	
PC1401102	ATI	507145	507145-2	ALS104	191-24-2	BENZO(g h i)PERYLENE	<350	UG/KG	10-Jul-1995	10-Jul-1995	11-Jul-1995	2306	SW8270	U	350	UG/KG	1	5%	SOL	
PC1401102	ATI	507145	507145-2	ALS104	207-08-9	BENZO(k)FLUORANTHENE	<350	UG/KG	10-Jul-1995	10-Jul-1995	11-Jul-1995	2306	SW8270	U	350	UG/KG	1	5%	SOL	
PC1401102	ATI	507145	507145-2	ALS104	218-01-9	CHRYSENE	<350	UG/KG	10-Jul-1995	10-Jul-1995	11-Jul-1995	2306	SW8270	U	350	UG/KG	1	5%	SOL	
PC1401102	ATI	507145	507145-2	ALS104	53-70-3	DIBENZO(a h)ANTHRACENE	<350	UG/KG	10-Jul-1995	10-Jul-1995	11-Jul-1995	2306	SW8270	U	350	UG/KG	1	5%	SOL	
PC1401102	ATI	507145	507145-2	ALS104	206-44-0	FLUORANTHENE	<350	UG/KG	10-Jul-1995	10-Jul-1995	11-Jul-1995	2306	SW8270	U	350	UG/KG	1	5%	SOL	
PC1401102	ATI	507145	507145-2	ALS104	86-73-7	FLUORENE	<350	UG/KG	10-Jul-1995	10-Jul-1995	11-Jul-1995	2306	SW8270	U	350	UG/KG	1	5%	SOL	
PC1401102	ATI	507145	507145-2	ALS104	193-39-5	INDENO(1 2 3-cd)PYRENE	<350	UG/KG	10-Jul-1995	10-Jul-1995	11-Jul-1995	2306	SW8270	U	350	UG/KG	1	5%	SOL	
PC1401102	ATI	507145	507145-2	ALS104	91-20-3	NAPHTHALENE	<350	UG/KG	10-Jul-1995	10-Jul-1995	11-Jul-1995	2306	SW8270	U	350	UG/KG	1	5%	SOL	
PC1401102	ATI	507145	507145-2	ALS104	85-01-8	PHENANTHRENE	<350	UG/KG	10-Jul-1995	10-Jul-1995	11-Jul-1995	2306	SW8270	U	350	UG/KG	1	5%	SOL	
PC1401102	ATI	507145	507145-2	ALS104	129-00-0	PYRENE	<350	UG/KG	10-Jul-1995	10-Jul-1995	11-Jul-1995	2306	SW8270	U	350	UG/KG	1	5%	SOL	
PC1401102	ATI	507145	507145-2	ALS104	90-12-0	1-METHYLNAPHTHALENE	<350	UG/KG	10-Jul-1995	10-Jul-1995	11-Jul-1995	2306	SW8270	U	350	UG/KG	1	5%	SOL	
PC1401102	ATI	507145	507145-2	ALS104	91-57-6	2-METHYLNAPHTHALENE	<350	UG/KG	10-Jul-1995	10-Jul-1995	11-Jul-1995	2306	SW8270	U	350	UG/KG	1	5%	SOL	
PC1401102	ATI	507145	507145-2	ALS104	321-60-8	2-FLUOROBIPHENYL	79	EC/SUR	10-Jul-1995	10-Jul-1995	11-Jul-1995	2306	SW8270	U	30-115	SUR	1		SOL	SUR
PC1401102	ATI	507145	507145-2	ALS104	4165-60-0	NITROBENZENE-D5	72	EC/SUR	10-Jul-1995	10-Jul-1995	11-Jul-1995	2306	SW8270	U	23-120	SUR	1		SOL	SUR
PC1401102	ATI	507145	507145-2	ALS104	1718-5-0	TERPHENYL-D14	84	EC/SUR	10-Jul-1995	10-Jul-1995	11-Jul-1995	2306	SW8270	U	18-137	SUR	1		SOL	SUR
PC1401102	ATI	507145	507145-2	TPS227		TOTAL PETROLEUM HYDROCARBON	28	MG/KG	10-Jul-1995	10-Jul-1995	11-Jul-1995	0943	SW9073	U	11	MG/KG	1	5%	SOL	
PC1401102	ATI	507145	507145-2	R6S140	7440-38-2	ARSENIC	<5	MG/KG	10-Jul-1995	11-Jul-1995	11-Jul-1995	1343	SW6010	U	5	MG/KG	1	5%	SOL	
PC1401102	ATI	507145	507145-2	B6S140	7440-39-3	BARIUM	2	MG/KG	10-Jul-1995	11-Jul-1995	11-Jul-1995	1343	SW6010	U	1	MG/KG	1	5%	SOL	
PC1401102	ATI	507145	507145-2	C6S140	7440-43-9	CADMIUM	<0.5	MG/KG	10-Jul-1995	11-Jul-1995	11-Jul-1995	1343	SW6010	U	0.5	MG/KG	1	5%	SOL	
PC1401102	ATI	507145	507145-2	H6S140	7440-47-3	CHROMIUM	3	MG/KG	10-Jul-1995	11-Jul-1995	11-Jul-1995	1343	SW6010	U	1	MG/KG	1	5%	SOL	
PC1401102	ATI	507145	507145-2	P6S140	7439-92-1	LEAD	<5	MG/KG	10-Jul-1995	11-Jul-1995	11-Jul-1995	1343	SW6010	U	5	MG/KG	1	5%	SOL	
PC1401102	ATI	507145	507145-2	M4S042	7439-97-6	MERCURY	<0.1	MG/KG	10-Jul-1995	11-Jul-1995	11-Jul-1995	1028	SW7471	U	0.1	MG/KG	1	5%	SOL	
PC1401102	ATI	507145	507145-2	S6S140	7782-49-2	SELENIUM	<10	MG/KG	10-Jul-1995	11-Jul-1995	11-Jul-1995	1343	SW6010	U	10	MG/KG	1	5%	SOL	
PC1401102	ATI	507145	507145-2	A6S140	7440-22-4	SILVER	<1	MG/KG	10-Jul-1995	11-Jul-1995	11-Jul-1995	1343	SW6010	U	1	MG/KG	1	5%	SOL	

PANAMA CITY PREBURN SAMPLE RESULTS

SAMPLE NUMBERS 1401201 AND 1401202

SAMPLE ID	LAB CODE	SDG	LAB ID	BLANK ID	CAS NO	ANALYTE	RESULT	UNITS	RECEIVED	PREPARED	ANALYZED	TIME	METHOD	FLAG	METHOD LIMIT	MDL UNITS	DF	MST	MATRIX	STYPE
PC1401201	ATI	507251	507251-1	LUS121	71-43-2	BENZENE	<1	UG/KG	14-Jul-95	17-Jul-95	17-Jul-95	1702	SW8020	U	1	UG/KG	1	1%	SOL	
PC1401201	ATI	507251	507251-1	LUS121	108-90-7	CHLOROBENZENE	<1	UG/KG	14-Jul-95	17-Jul-95	17-Jul-95	1702	SW8020	U	1	UG/KG	1	1%	SOL	
PC1401201	ATI	507251	507251-1	LUS121	95-50-1	1 2-DICHLOROBENZENE	<2	UG/KG	14-Jul-95	17-Jul-95	17-Jul-95	1702	SW8020	U	2	UG/KG	1	1%	SOL	
PC1401201	ATI	507251	507251-1	LUS121	541-73-1	1 3-DICHLOROBENZENE	<2	UG/KG	14-Jul-95	17-Jul-95	17-Jul-95	1702	SW8020	U	2	UG/KG	1	1%	SOL	
PC1401201	ATI	507251	507251-1	LUS121	106-46-7	1 4-DICHLOROBENZENE	<2	UG/KG	14-Jul-95	17-Jul-95	17-Jul-95	1702	SW8020	U	2	UG/KG	1	1%	SOL	
PC1401201	ATI	507251	507251-1	LUS121	100-41-4	ETHYLBENZENE	1	UG/KG	14-Jul-95	17-Jul-95	17-Jul-95	1702	SW8020	U	1	UG/KG	1	1%	SOL	
PC1401201	ATI	507251	507251-1	LUS121	108-88-3	TOLUENE	<5	UG/KG	14-Jul-95	17-Jul-95	17-Jul-95	1702	SW8020	U	5	UG/KG	1	1%	SOL	
PC1401201	ATI	507251	507251-1	LUS121		XYLENES (TOTAL)	4	UG/KG	14-Jul-95	17-Jul-95	17-Jul-95	1702	SW8020	U	2	UG/KG	1	1%	SOL	
PC1401201	ATI	507251	507251-1	LUS121		METHYL T-BUTYL ETHER	<5	UG/KG	14-Jul-95	17-Jul-95	17-Jul-95	1702	SW8020	U	5	UG/KG	1	1%	SOL	
PC1401201	ATI	507251	507251-1	LUS121		BROMOFLUOROBENZENE (PID)	103	SUR	14-Jul-95	17-Jul-95	17-Jul-95	1702	SW8020	U	65-130	SUR	1		SOL	SUR
PC1401202	ATI	507251	507251-2	ALS105	83-32-9	ACENAPHTHENE	<330	UG/KG	14-Jul-95	14-Jul-95	17-Jul-95	2113	SW8270	U	330	UG/KG	1	0%	SOL	
PC1401202	ATI	507251	507251-2	ALS105	208-96-8	ACENAPHTHYLENE	<330	UG/KG	14-Jul-95	14-Jul-95	17-Jul-95	2113	SW8270	U	330	UG/KG	1	0%	SOL	
PC1401202	ATI	507251	507251-2	ALS105	120-12-7	ANTHRACENE	<330	UG/KG	14-Jul-95	14-Jul-95	17-Jul-95	2113	SW8270	U	330	UG/KG	1	0%	SOL	
PC1401202	ATI	507251	507251-2	ALS105	56-55-3	BENZO(a)ANTHRACENE	<330	UG/KG	14-Jul-95	14-Jul-95	17-Jul-95	2113	SW8270	U	330	UG/KG	1	0%	SOL	
PC1401202	ATI	507251	507251-2	ALS105	50-32-8	BENZO(a)PYRENE	<330	UG/KG	14-Jul-95	14-Jul-95	17-Jul-95	2113	SW8270	U	330	UG/KG	1	0%	SOL	
PC1401202	ATI	507251	507251-2	ALS105	205-99-2	BENZO(b)FLUORANTHENE	<330	UG/KG	14-Jul-95	14-Jul-95	17-Jul-95	2113	SW8270	U	330	UG/KG	1	0%	SOL	
PC1401202	ATI	507251	507251-2	ALS105	191-24-2	BENZO(g h i)PERYLENE	<330	UG/KG	14-Jul-95	14-Jul-95	17-Jul-95	2113	SW8270	U	330	UG/KG	1	0%	SOL	
PC1401202	ATI	507251	507251-2	ALS105	207-08-9	BENZO(k)FLUORANTHENE	<330	UG/KG	14-Jul-95	14-Jul-95	17-Jul-95	2113	SW8270	U	330	UG/KG	1	0%	SOL	
PC1401202	ATI	507251	507251-2	ALS105	218-01-9	CHRYSENE	<330	UG/KG	14-Jul-95	14-Jul-95	17-Jul-95	2113	SW8270	U	330	UG/KG	1	0%	SOL	
PC1401202	ATI	507251	507251-2	ALS105	53-70-3	DIBENZO(a h)ANTHRACENE	<330	UG/KG	14-Jul-95	14-Jul-95	17-Jul-95	2113	SW8270	U	330	UG/KG	1	0%	SOL	
PC1401202	ATI	507251	507251-2	ALS105	206-44-0	FLUORANTHENE	<330	UG/KG	14-Jul-95	14-Jul-95	17-Jul-95	2113	SW8270	U	330	UG/KG	1	0%	SOL	
PC1401202	ATI	507251	507251-2	ALS105	86-73-7	FLUORENE	<330	UG/KG	14-Jul-95	14-Jul-95	17-Jul-95	2113	SW8270	U	330	UG/KG	1	0%	SOL	
PC1401202	ATI	507251	507251-2	ALS105	193-39-5	INDENO(1 2 3-cd)PYRENE	<330	UG/KG	14-Jul-95	14-Jul-95	17-Jul-95	2113	SW8270	U	330	UG/KG	1	0%	SOL	
PC1401202	ATI	507251	507251-2	ALS105	91-20-3	NAPHTHALENE	<330	UG/KG	14-Jul-95	14-Jul-95	17-Jul-95	2113	SW8270	U	330	UG/KG	1	0%	SOL	
PC1401202	ATI	507251	507251-2	ALS105	85-01-8	PHENANTHRENE	<330	UG/KG	14-Jul-95	14-Jul-95	17-Jul-95	2113	SW8270	U	330	UG/KG	1	0%	SOL	
PC1401202	ATI	507251	507251-2	ALS105	129-00-0	PYRENE	<330	UG/KG	14-Jul-95	14-Jul-95	17-Jul-95	2113	SW8270	U	330	UG/KG	1	0%	SOL	
PC1401202	ATI	507251	507251-2	ALS105	90-12-0	1-METHYLNAPHTHALENE	<330	UG/KG	14-Jul-95	14-Jul-95	17-Jul-95	2113	SW8270	U	330	UG/KG	1	0%	SOL	
PC1401202	ATI	507251	507251-2	ALS105	91-57-6	2-METHYLNAPHTHALENE	<330	UG/KG	14-Jul-95	14-Jul-95	17-Jul-95	2113	SW8270	U	330	UG/KG	1	0%	SOL	
PC1401202	ATI	507251	507251-2	ALS105	321-60-8	2-FLUOROBIPHENYL	92	SUR	14-Jul-95	14-Jul-95	17-Jul-95	2113	SW8270	U	30-115	REC/SUR	1		SOL	SUR
PC1401202	ATI	507251	507251-2	ALS105	4165-60-0	NITROBENZENE-D5	85	SUR	14-Jul-95	14-Jul-95	17-Jul-95	2113	SW8270	U	23-120	REC/SUR	1		SOL	SUR
PC1401202	ATI	507251	507251-2	ALS105	1718-5-0	TERPHENYL-D14	83	SUR	14-Jul-95	14-Jul-95	17-Jul-95	2113	SW8270	U	18-137	REC/SUR	1		SOL	SUR
PC1401202	ATI	507251	507251-2	TPS229		TOTAL PETROLEUM HYDROCARBON	26	MG/KG	14-Jul-95	14-Jul-95	14-Jul-95	1606	SW9073	U	10	MG/KG	1	0%	SOL	
PC1401202	ATI	507251	507251-2	R6S144	7440-38-2	ARSENIC (6010)	<5	MG/KG	14-Jul-95	14-Jul-95	17-Jul-95	1007	SW6010	U	5	MG/KG	1	0%	SOL	
PC1401202	ATI	507251	507251-2	B6S144	7440-39-3	BARIUM (6010)	1	MG/KG	14-Jul-95	14-Jul-95	17-Jul-95	1007	SW6010	U	1	MG/KG	1	0%	SOL	
PC1401202	ATI	507251	507251-2	C6S144	7440-43-9	CADMIUM (6010)	<0.5	MG/KG	14-Jul-95	14-Jul-95	17-Jul-95	1007	SW6010	U	0.5	MG/KG	1	0%	SOL	
PC1401202	ATI	507251	507251-2	R6S144	7440-47-3	CHROMIUM (6010)	2	MG/KG	14-Jul-95	14-Jul-95	17-Jul-95	1007	SW6010	U	1	MG/KG	1	0%	SOL	
PC1401202	ATI	507251	507251-2	P6S144	7439-92-1	LEAD (6010)	<5	MG/KG	14-Jul-95	14-Jul-95	17-Jul-95	1007	SW6010	U	5	MG/KG	1	0%	SOL	
PC1401202	ATI	507251	507251-2	M4S043	7439-97-6	MERCURY (7471)	<0.1	MG/KG	14-Jul-95	18-Jul-95	18-Jul-95	1030	SW7471	U	0.1	MG/KG	1	0%	SOL	
PC1401202	ATI	507251	507251-2	S6S144	7782-49-2	SELENIUM (6010)	<10	MG/KG	14-Jul-95	14-Jul-95	17-Jul-95	1007	SW6010	U	10	MG/KG	1	0%	SOL	
PC1401202	ATI	507251	507251-2	A6S144	7440-22-4	SILVER (6010)	<1	MG/KG	14-Jul-95	14-Jul-95	17-Jul-95	1007	SW6010	U	1	MG/KG	1	0%	SOL	

PANAMA CITY PREBURN SAMPLE RESULTS

SAMPLE NUMBERS 1401301 AND 1401302

SAMPLE ID	LAB CODE	SDG	LAB ID	BLANK ID	CAS NO.	ANALYTE	RESULT	UNITS	RECEIVED	PREPARED	ANALYZED	TIME	METHOD	FLAG	METHOD LIMIT	MDL UNITS	DF	MST	MATRIX	STYPE
PC1401301	ATI	507272	507272-1	KIS167	71-43-2	BENZENE	<1	UG/KG	14-Jul-95	18-Jul-95	18-Jul-95	1351	SW8020	U	1	UG/KG	1	1%	SOL	
PC1401301	ATI	507272	507272-1	KIS167	108-90-7	CHLOROBENZENE	<1	UG/KG	14-Jul-95	18-Jul-95	18-Jul-95	1351	SW8020	U	1	UG/KG	1	1%	SOL	
PC1401301	ATI	507272	507272-1	KIS167	95-50-1	1 2-DICHLOROBENZENE	<2	UG/KG	14-Jul-95	18-Jul-95	18-Jul-95	1351	SW8020	U	2	UG/KG	1	1%	SOL	
PC1401301	ATI	507272	507272-1	KIS167	541-73-1	1 3-DICHLOROBENZENE	<2	UG/KG	14-Jul-95	18-Jul-95	18-Jul-95	1351	SW8020	U	2	UG/KG	1	1%	SOL	
PC1401301	ATI	507272	507272-1	KIS167	106-46-7	1 4-DICHLOROBENZENE	<2	UG/KG	14-Jul-95	18-Jul-95	18-Jul-95	1351	SW8020	U	2	UG/KG	1	1%	SOL	
PC1401301	ATI	507272	507272-1	KIS167	100-41-4	ETHYLBENZENE	<1	UG/KG	14-Jul-95	18-Jul-95	18-Jul-95	1351	SW8020	U	1	UG/KG	1	1%	SOL	
PC1401301	ATI	507272	507272-1	KIS167	108-88-3	TOLUENE	<5	UG/KG	14-Jul-95	18-Jul-95	18-Jul-95	1351	SW8020	U	5	UG/KG	1	1%	SOL	
PC1401301	ATI	507272	507272-1	KIS167		XYLENES (TOTAL)	<4	UG/KG	14-Jul-95	18-Jul-95	18-Jul-95	1351	SW8020	U	2	UG/KG	1	1%	SOL	
PC1401301	ATI	507272	507272-1	KIS167		METHYL T-BUTYL ETHER	<5	UG/KG	14-Jul-95	18-Jul-95	18-Jul-95	1351	SW8020	U	5	UG/KG	1	1%	SOL	
PC1401301	ATI	507272	507272-1	KIS167		TRIFLUOROTOLUENE (PID)	106	SUR	14-Jul-95	18-Jul-95	18-Jul-95	1351	SW8020	U	73-123	SUR	1		SOL	SUR
PC1401302	ATI	507272	507272-2	ALS105	83-32-9	ACENAPHTHENE	<330	UG/KG	14-Jul-95	15-Jul-95	18-Jul-95	1236	SW8270	U	330	UG/KG	1	0%	SOL	
PC1401302	ATI	507272	507272-2	ALS105	208-96-8	ACENAPHTHYLENE	<330	UG/KG	14-Jul-95	15-Jul-95	18-Jul-95	1236	SW8270	U	330	UG/KG	1	0%	SOL	
PC1401302	ATI	507272	507272-2	ALS105	120-12-7	ANTHRACENE	<330	UG/KG	14-Jul-95	15-Jul-95	18-Jul-95	1236	SW8270	U	330	UG/KG	1	0%	SOL	
PC1401302	ATI	507272	507272-2	ALS105	56-55-3	BENZO(a)ANTHRACENE	<330	UG/KG	14-Jul-95	15-Jul-95	18-Jul-95	1236	SW8270	U	330	UG/KG	1	0%	SOL	
PC1401302	ATI	507272	507272-2	ALS105	50-32-8	BENZO(a)PYRENE	<330	UG/KG	14-Jul-95	15-Jul-95	18-Jul-95	1236	SW8270	U	330	UG/KG	1	0%	SOL	
PC1401302	ATI	507272	507272-2	ALS105	205-99-2	BENZO(b)FLUORANTHENE	<330	UG/KG	14-Jul-95	15-Jul-95	18-Jul-95	1236	SW8270	U	330	UG/KG	1	0%	SOL	
PC1401302	ATI	507272	507272-2	ALS105	191-24-2	BENZO(g h i)PERYLENE	<330	UG/KG	14-Jul-95	15-Jul-95	18-Jul-95	1236	SW8270	U	330	UG/KG	1	0%	SOL	
PC1401302	ATI	507272	507272-2	ALS105	207-08-9	BENZO(k)FLUORANTHENE	<330	UG/KG	14-Jul-95	15-Jul-95	18-Jul-95	1236	SW8270	U	330	UG/KG	1	0%	SOL	
PC1401302	ATI	507272	507272-2	ALS105	218-01-9	CHRYSENE	<330	UG/KG	14-Jul-95	15-Jul-95	18-Jul-95	1236	SW8270	U	330	UG/KG	1	0%	SOL	
PC1401302	ATI	507272	507272-2	ALS105	53-70-3	DIBENZO(a h)ANTHRACENE	<330	UG/KG	14-Jul-95	15-Jul-95	18-Jul-95	1236	SW8270	U	330	UG/KG	1	0%	SOL	
PC1401302	ATI	507272	507272-2	ALS105	206-44-0	FLUORANTHENE	<330	UG/KG	14-Jul-95	15-Jul-95	18-Jul-95	1236	SW8270	U	330	UG/KG	1	0%	SOL	
PC1401302	ATI	507272	507272-2	ALS105	86-73-7	FLUORENE	<330	UG/KG	14-Jul-95	15-Jul-95	18-Jul-95	1236	SW8270	U	330	UG/KG	1	0%	SOL	
PC1401302	ATI	507272	507272-2	ALS105	193-39-5	INDENO(1 2 3-cd)PYRENE	<330	UG/KG	14-Jul-95	15-Jul-95	18-Jul-95	1236	SW8270	U	330	UG/KG	1	0%	SOL	
PC1401302	ATI	507272	507272-2	ALS105	91-20-3	NAPHTHALENE	<330	UG/KG	14-Jul-95	15-Jul-95	18-Jul-95	1236	SW8270	U	330	UG/KG	1	0%	SOL	
PC1401302	ATI	507272	507272-2	ALS105	85-01-8	PHENANTHRENE	<330	UG/KG	14-Jul-95	15-Jul-95	18-Jul-95	1236	SW8270	U	330	UG/KG	1	0%	SOL	
PC1401302	ATI	507272	507272-2	ALS105	129-00-0	PYRENE	<330	UG/KG	14-Jul-95	15-Jul-95	18-Jul-95	1236	SW8270	U	330	UG/KG	1	0%	SOL	
PC1401302	ATI	507272	507272-2	ALS105	90-12-0	1-METHYLNAPHTHALENE	<330	UG/KG	14-Jul-95	15-Jul-95	18-Jul-95	1236	SW8270	U	330	UG/KG	1	0%	SOL	
PC1401302	ATI	507272	507272-2	ALS105	91-57-6	2-METHYLNAPHTHALENE	<330	UG/KG	14-Jul-95	15-Jul-95	18-Jul-95	1236	SW8270	U	330	UG/KG	1	0%	SOL	
PC1401302	ATI	507272	507272-2	ALS105	321-60-8	2-FLUOROBIPHENYL	70	SUR	14-Jul-95	15-Jul-95	18-Jul-95	1236	SW8270	U	30-115	SUR	1		SOL	SUR
PC1401302	ATI	507272	507272-2	ALS105	4165-60-0	NITROBENZENE-D5	52	SUR	14-Jul-95	15-Jul-95	18-Jul-95	1236	SW8270	U	23-120	SUR	1		SOL	SUR
PC1401302	ATI	507272	507272-2	ALS105	1718-5-0	TERPHENYL-D14	80	SUR	14-Jul-95	15-Jul-95	18-Jul-95	1236	SW8270	U	18-137	SUR	1		SOL	SUR
PC1401302	ATI	507272	507272-2	TPS229		TOTAL PETROLEUM HYDROCARBON	37	MG/KG	14-Jul-95	15-Jul-95	17-Jul-95	1651	SW9073	U	10	MG/KG	1	0%	SOL	
PC1401302	ATI	507272	507272-2	R6S147	7440-38-2	ARSENIC	<5	MG/KG	14-Jul-95	19-Jul-95	19-Jul-95	1238	SW6010	U	5	MG/KG	1	0%	SOL	
PC1401302	ATI	507272	507272-2	B6S147	7440-39-3	BARIUM	1	MG/KG	14-Jul-95	19-Jul-95	19-Jul-95	1238	SW6010	U	1	MG/KG	1	0%	SOL	
PC1401302	ATI	507272	507272-2	C6S147	7440-43-9	CADMIUM	<0.5	MG/KG	14-Jul-95	19-Jul-95	19-Jul-95	1238	SW6010	U	0.5	MG/KG	1	0%	SOL	
PC1401302	ATI	507272	507272-2	H6S147	7440-47-3	CHROMIUM	2	MG/KG	14-Jul-95	19-Jul-95	19-Jul-95	1238	SW6010	U	1	MG/KG	1	0%	SOL	
PC1401302	ATI	507272	507272-2	P6S147	7439-92-1	LEAD	<5	MG/KG	14-Jul-95	19-Jul-95	19-Jul-95	1238	SW6010	U	5	MG/KG	1	0%	SOL	
PC1401302	ATI	507272	507272-2	M4S043	7439-97-6	MERCURY	<0.1	MG/KG	14-Jul-95	18-Jul-95	18-Jul-95	1030	SW7471	U	0.1	MG/KG	1	0%	SOL	
PC1401302	ATI	507272	507272-2	S6S147	7782-49-2	SELENIUM	<10	MG/KG	14-Jul-95	19-Jul-95	19-Jul-95	1238	SW6010	U	10	MG/KG	1	0%	SOL	
PC1401302	ATI	507272	507272-2	A6S147	7440-22-4	SILVER	<1	MG/KG	14-Jul-95	19-Jul-95	19-Jul-95	1238	SW6010	U	1	MG/KG	1	0%	SOL	

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Quanterra
Environmental Services

008893

ANALYTICAL REPORT

PROJECT NO. 7520.51

CSS PANAMA CITY SITE 325

MS KAREN HARTNETT

ABB ENVIRONMENTAL SERVICES

QUANTERRA INCORPORATED
Certification Numbers: E84059,HRS84297
FDEP CompQAP: 870270G

Steve Tafuni
Project Manager

July 20, 1995

Quanterra
Environmental Services

EXECUTIVE SUMMARY - Detection Highlights

B5G060105

PARAMETER	RESULT	REPORTING LIMIT	UNIT	METHOD
PCY-325-TW1				
Ethylbenzene	16	2.0	ug/L	CFR136A 602
Xylenes (total)	41	2.0	ug/L	CFR136A 602
1-Methylnaphthalene	58	2.0	ug/L	CFR136A 610
2-Methylnaphthalene	45	2.0	ug/L	CFR136A 610
Naphthalene	30	2.0	ug/L	CFR136A 610

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Quanterra Environmental Services

ANALYTICAL METHODS SUMMARY

Parameters	Methods
Purgeable Aromatics	CFR136A 602
Polynuclear Aromatic Hydrocarbons	CFR136A 610

References:

CFR136A "Methods for Organic Chemical Analysis of Municipal and Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

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SAMPLE SUMMARY

The analytical results of the samples listed below are presented on the following pages.

WO #	LABORATORY ID	SAMPLE IDENTIFICATION
C04Q7	B5G060105-001	PCY-325-EB1
C04Q8	B5G060105-002	PCY-325-TW1
C04Q9	B5G060105-003	TRIP BLANK

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Quanterra Environmental Services

ABB ENVIRONMENTAL SERVICES

PCY-325-EB1

WO #: C04Q7101
LAB #: B5G060105-001
MATRIX: WATER

DATE SAMPLED: 7/05/95
DATE RECEIVED: 7/06/95

GC Volatiles

PARAMETER	RESULT (ug/L)	REPORTING LIMIT	METHOD	EXTRACTION-ANALYSIS DATE	QC BATCH
Benzene	ND	1.0	CFR136A 602	07/17/95	519903
Chlorobenzene	ND	1.0	CFR136A 602	07/17/95	519903
1,2-Dichlorobenzene	ND	1.0	CFR136A 602	07/17/95	519903
1,3-Dichlorobenzene	ND	1.0	CFR136A 602	07/17/95	519903
1,4-Dichlorobenzene	ND	1.0	CFR136A 602	07/17/95	519903
Ethylbenzene	ND	1.0	CFR136A 602	07/17/95	519903
Toluene	ND	1.0	CFR136A 602	07/17/95	519903
Methyl tert-butyl ether	ND	1.0	CFR136A 602	07/17/95	519903
Xylenes (total)	ND	1.0	CFR136A 602	07/17/95	519903

SURROGATE RECOVERY	%	ACCEPTABLE LIMITS
Trifluorotoluene	99	(73 - 131)

NOTE: AS RECEIVED
ND NOT DETECTED AT THE STATED REPORTING LIMIT

Quanterra Environmental Services

ABB ENVIRONMENTAL SERVICES

PCY-325-EB1

WO #: C04Q7102
LAB #: B5G060105-001
MATRIX: WATER

DATE SAMPLED: 7/05/95
DATE RECEIVED: 7/06/95

- - - - - - - - - - - - - - - - - - REQUESTED PARAMETERS - - - - - - - - - - - - - - - - - -

PARAMETER	RESULT (ug/L)	REPORTING LIMIT	METHOD	EXTRACTION-ANALYSIS DATE	QC BATCH
Acenaphthene	ND	2.0	CFR136A 610	07/07-07/12/95	5188030
Acenaphthylene	ND	2.0	CFR136A 610	07/07-07/12/95	5188030
Anthracene	ND	2.0	CFR136A 610	07/07-07/12/95	5188030
Benzo(a)anthracene	ND	0.10	CFR136A 610	07/07-07/12/95	5188030
Benzo(a)pyrene	ND	0.10	CFR136A 610	07/07-07/12/95	5188030
Benzo(b)fluoranthene	ND	0.10	CFR136A 610	07/07-07/12/95	5188030
Benzo(ghi)perylene	ND	0.10	CFR136A 610	07/07-07/12/95	5188030
Benzo(k)fluoranthene	ND	0.15	CFR136A 610	07/07-07/12/95	5188030
Chrysene	ND	0.10	CFR136A 610	07/07-07/12/95	5188030
Dibenz(a,h)anthracene	ND	0.10	CFR136A 610	07/07-07/12/95	5188030
Fluoranthene	ND	0.20	CFR136A 610	07/07-07/12/95	5188030
Fluorene	ND	2.0	CFR136A 610	07/07-07/12/95	5188030
Indeno(1,2,3-cd)pyrene	ND	0.10	CFR136A 610	07/07-07/12/95	5188030
1-Methylnaphthalene	ND	2.0	CFR136A 610	07/07-07/12/95	5188030
2-Methylnaphthalene	ND	2.0	CFR136A 610	07/07-07/12/95	5188030
Naphthalene	ND	2.0	CFR136A 610	07/07-07/12/95	5188030
Phenanthrene	ND	2.0	CFR136A 610	07/07-07/12/95	5188030
Pyrene	ND	0.20	CFR136A 610	07/07-07/12/95	5188030

SURROGATE RECOVERY	%	ACCEPTABLE LIMITS
Carbazole	84	(30 - 130)

NOTE: AS RECEIVED
ND NOT DETECTED AT THE STATED REPORTING LIMIT

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Quanterra Environmental Services

ABB ENVIRONMENTAL SERVICES

PCY-325-TW1

WO #: C04Q8101
LAB #: B5G060105-002
MATRIX: WATER

DATE SAMPLED: 7/05/95
DATE RECEIVED: 7/06/95

- GC Volatiles -

PARAMETER	RESULT (ug/L)	REPORTING LIMIT	METHOD	EXTRACTION-ANALYSIS DATE	QC BATCH
Benzene	ND	2.0	CFR136A 602	07/17/95	5199038
Chlorobenzene	ND	2.0	CFR136A 602	07/17/95	5199038
1,2-Dichlorobenzene	ND	2.0	CFR136A 602	07/17/95	5199038
1,3-Dichlorobenzene	ND	2.0	CFR136A 602	07/17/95	5199038
1,4-Dichlorobenzene	ND	2.0	CFR136A 602	07/17/95	5199038
Ethylbenzene	16	2.0	CFR136A 602	07/17/95	5199038
Toluene	ND	2.0	CFR136A 602	07/17/95	5199038
Methyl tert-butyl ether	ND	2.0	CFR136A 602	07/17/95	5199038
Xylenes (total)	41	2.0	CFR136A 602	07/17/95	5199038

SURROGATE RECOVERY	%	ACCEPTABLE LIMITS
Trifluorotoluene	102	(73 - 131)

NOTE: AS RECEIVED
ND NOT DETECTED AT THE STATED REPORTING LIMIT

Quanterra
Environmental Services

ABB ENVIRONMENTAL SERVICES

PCY-325-TW1

WO #: C04Q8102
LAB #: B5G060105-002
MATRIX: WATER

DATE SAMPLED: 7/05/95
DATE RECEIVED: 7/06/95

- - - - - - - - - - - - - - - - - - REQUESTED PARAMETERS - - - - - - - - - - - - - - - - - -

PARAMETER	RESULT (ug/L)	REPORTING LIMIT	METHOD	EXTRACTION-ANALYSIS DATE	QC BATCH
Acenaphthene	ND	2.0	CFR136A 610	07/07-07/12/95	5188030
Acenaphthylene	ND	2.0	CFR136A 610	07/07-07/12/95	5188030
Anthracene	ND	2.0	CFR136A 610	07/07-07/12/95	5188030
Benzo(a)anthracene	ND	0.10	CFR136A 610	07/07-07/12/95	5188030
Benzo(a)pyrene	ND	0.10	CFR136A 610	07/07-07/12/95	5188030
Benzo(b)fluoranthene	ND	0.10	CFR136A 610	07/07-07/12/95	5188030
Benzo(ghi)perylene	ND	0.10	CFR136A 610	07/07-07/12/95	5188030
Benzo(k)fluoranthene	ND	0.15	CFR136A 610	07/07-07/12/95	5188030
Chrysene	ND	0.10	CFR136A 610	07/07-07/12/95	5188030
Dibenz(a,h)anthracene	ND	0.10	CFR136A 610	07/07-07/12/95	5188030
Fluoranthene	ND	0.20	CFR136A 610	07/07-07/12/95	5188030
Fluorene	ND	2.0	CFR136A 610	07/07-07/12/95	5188030
Indeno(1,2,3-cd)pyrene	ND	0.10	CFR136A 610	07/07-07/12/95	5188
1-Methylnaphthalene	58	2.0	CFR136A 610	07/07-07/12/95	5188030
2-Methylnaphthalene	45	2.0	CFR136A 610	07/07-07/12/95	5188030
Naphthalene	30	2.0	CFR136A 610	07/07-07/12/95	5188030
Phenanthrene	ND	2.0	CFR136A 610	07/07-07/12/95	5188030
Pyrene	ND	0.20	CFR136A 610	07/07-07/12/95	5188030

SURROGATE RECOVERY	%	ACCEPTABLE LIMITS
Carbazole	58	(30 - 130)

NOTE: AS RECEIVED
ND NOT DETECTED AT THE STATED REPORTING LIMIT

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Quanterra Environmental Services

ABB ENVIRONMENTAL SERVICES

TRIP BLANK

WO #: C04Q9101
LAB #: B5G060105-003
MATRIX: WATER

DATE SAMPLED: 7/05/95
DATE RECEIVED: 7/06/95

- GC Volatiles -

PARAMETER	RESULT (ug/L)	REPORTING LIMIT	METHOD	EXTRACTION-ANALYSIS DATE	QC BATCH
Benzene	ND	1.0	CFR136A 602	07/17/95	5199038
Chlorobenzene	ND	1.0	CFR136A 602	07/17/95	5199038
1,2-Dichlorobenzene	ND	1.0	CFR136A 602	07/17/95	5199038
1,3-Dichlorobenzene	ND	1.0	CFR136A 602	07/17/95	5199038
1,4-Dichlorobenzene	ND	1.0	CFR136A 602	07/17/95	5199038
Ethylbenzene	ND	1.0	CFR136A 602	07/17/95	5199038
Toluene	ND	1.0	CFR136A 602	07/17/95	5199038
Methyl tert-butyl ether	ND	1.0	CFR136A 602	07/17/95	5199038
Xylenes (total)	ND	1.0	CFR136A 602	07/17/95	5199038

SURROGATE RECOVERY	%	ACCEPTABLE LIMITS
Trifluorotoluene	103	(73 - 131)

NOTE: AS RECEIVED
ND NOT DETECTED AT THE STATED REPORTING LIMIT

Quanterra
Environmental Services

Quality Control Summary

Quanterra QC Program Summary

Method Blanks

Laboratory Control Samples

Matrix Spike/Matrix Spike Duplicates

Chain-of-Custody

008893

Quanterra Environmental Services

Quanterra Quality Control Program Summary

Quanterra Environmental Services considers continuous analytical method performance evaluations to be an integral portion of the data package, and routinely includes the pertinent QA/QC data associated with analytical results. Brief discussions of the various QA/QC procedures utilized to measure acceptable method and matrix performance follow. Further documentation of specific policies and procedures in use are available, upon request, from the Quanterra Quality Control Department.

The program described below provides Quanterra's interpretation of QC requirements described in SW-846, 3rd edition -Final Update II. Additional interpretations specific to other aspects of methods performed, such as instrument calibration and bench procedures, are described in program-specific documents (e.g. US Corps of Engineers, AFCEE, etc.) and associated method standard operating procedures. Where explicit program requirements or project requirements exist, certain elements of the Quanterra QC Program may be superseded by these requirements.

Elements of the Quanterra QC Program

Where other clear regulatory guidance, contract specifications, or client requirements are not available, the Quanterra QC Program provides guidance for Batch QC requirements. The Quality Control Batch is a set of up to 20 field samples of similar matrix, which are processed together under the same conditions, within the same time frame. Included in each Quality Control Batch is a Method Blank, Laboratory Control Sample, and Matrix Spike Duplicate. For methods that require independent sample preparation prior to analysis, the QC Batch is defined at the preparation stage. For methods that do not require independent sample preparation, the QC Batch is defined at the instrument. The QC Batch Number is provided on each result page in association with the parameter(s) presented, and may be used to cross-reference sample results with the associated QC data.

Method Blank Evaluations

Laboratory analytical method blanks are systematically prepared and analyzed in order to continuously evaluate the system interference and background contamination levels associated with each applicable analytical method. Method blanks include all aspects of actual laboratory procedures involving sample preparation and analysis, substituting analyte-free water or solid for the actual sample. Under normal circumstances, the Method Blank should not exhibit analytes of interest above the reported detection limit. Due to the presence of some analytes in a typical laboratory setting, the following common laboratory contaminants are exceptions to this rule, provided they are not present in the method blank at greater than five times the reporting limit.

Volatiles	Semi-Volatiles	Metals
Methylene chloride	Dimethyl phthalate	Calcium
Toluene	Diethyl phthalate	Magnesium
2-Butanone	Di-n-butyl-phthalate	Sodium
Acetone	Butyl benzyl phthalate	
	Bis (2-ethylhexyl) phthalate	

A method blank is performed with each analytical batch. A minimum of 5% of all laboratory analyses are method blanks.

Laboratory Control Sample (LCS) Evaluations

Known concentrations of designated matrix spike (target analyte) compounds are added to a method blank prior to extraction and analysis. Percent recovery determinations of individual target analytes in the LCS demonstrate the laboratory's method performance for the QC Batch relative to these target analytes (or other individual components represented by a subset of control analytes). Percent recovery data is displayed alongside acceptance criteria, that is typically derived from laboratory historical data. Failure of a Laboratory Control Sample to meet established recovery criteria for control analytes is cause for corrective actions to occur, which typically includes re-extraction and re-analysis of all samples associated with the QC Batch. An LCS is performed with each analytical batch. A minimum of 5% of all laboratory analyses are laboratory control samples.

Quanterra Quality Control Program Summary (continued)

Surrogate Spike Recovery Evaluations

For GC and GC/MS analyses, known concentrations of designated surrogate spikes, consisting of a number of similar, non-method compounds or method compound analogues, are added to sample fractions prior to sample extraction and analysis. The percent recovery determinations calculated from the subsequent analysis is one indication of the overall method efficiency for the individual sample. The surrogate spike recovery data is displayed alongside acceptance limits at the bottom of each applicable analytical result report page. Where sufficient laboratory-generated data does not yet exist to determine appropriate control limits, advisory limits may be enacted until sufficient data is collected to allow implementation of control limits.

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Evaluations

In conjunction with the analysis of a client-provided field sample, a known concentration of designated matrix spike compounds (target analytes) are added to two aliquots of the actual sample. Percent recovery determinations are calculated from both spiked aliquots, using target analyte concentrations already present in the actual sample as a baseline. The percent recovery determinations indicate the accuracy of the method specific to the target analytes (or other individual components represented by a subset of control analytes) in the individual sample matrix. Comparison of the percent recoveries in the two spiked aliquots yields a relative percent difference (RPD). Percent recovery and relative percent difference data is displayed alongside historical criteria, that may be used to judge individual sample matrix effects for specific analytes. MS/MSD data is evaluated by the laboratory with respect to the individual sample matrix. In cases where MS/MSD data indicate sample method performance outside of historical criteria, the laboratory control sample results are referenced to ensure acceptable method performance by the laboratory for the sample batch. For analyses which are inappropriately suited for matrix spikes (e.g. pH), non-spiked duplicate analyses are performed to generate precision data. Matrix spike duplicates are typically performed on at least one sample within each analytical batch. A minimum of 10% of all laboratory analyses are matrix spikes or duplicates.

Corrective Action Evaluations

The goal of the Quanterra Quality Control Program is to generate data that demonstrates process control, and allows for client usability of data. Where the analytical process is demonstrated to vary from established criteria, or client requirements have not been met, data evaluation resulting in corrective action may be required. Corrective action may include re-preparation and/or reanalysis of field samples and QC samples. Where appropriate or necessary to allow proper interpretation of results presented in the final report, details of corrective actions taken during the laboratory processing of samples are presented as a case narrative at the front of the report. Alternatively, routine corrective action, such as reanalysis, may be footnoted on individual sample result pages.

Analytical Result Qualifier Flags

Where applicable , data qualifiers may be appended to analytical results in order to allow for proper interpretation of the result presented. Typically, the presence of data qualifier flag on an analytical result page is accompanied by a footnote explaining the qualifier. Common data qualifiers include, but are no limited to the following:

J -indicates an estimated concentration is reported due to method limitations such as matrix interference or instrumental detection limitations.

B -indicates the presence of a particular analyte in the associated laboratory method blank.

DIL -indicates percent recovery determination was not possible due to dilution associated with the sample matrix conditions or high target analyte concentrations.

X -indicates internal standards used for a GC or GC/MS analysis did not meet established criteria, typically due to a sample matrix effect.

E -indicates an estimated concentration is reported due to analyte response beyond the established instrumental calibration range, typically due to presence of a wide range of target analyte concentrations.

Quanterra Environmental Services

METHOD BLANK REPORT

LAB #: B5G180000-038

- GC VOLATILES -

PARAMETER	RESULT (ug/L)	REPORTING LIMIT	EXTRACTION-ANALYSIS DATE	QC BATCH
Benzene	ND	1.0	7/17/95	5199038
Chlorobenzene	ND	1.0	7/17/95	5199038
1,2-Dichlorobenzene	ND	1.0	7/17/95	5199038
1,3-Dichlorobenzene	ND	1.0	7/17/95	5199038
1,4-Dichlorobenzene	ND	1.0	7/17/95	5199038
Ethylbenzene	ND	1.0	7/17/95	5199038
Toluene	ND	1.0	7/17/95	5199038
Xylenes (total)	ND	1.0	7/17/95	5199038
Methyl tert-butyl ether	ND	1.0	7/17/95	5199038

NOTE:

ND NOT DETECTED AT THE STATED REPORTING LIMIT

Quanterra Environmental Services

METHOD BLANK REPORT

LAB #: B5G070000-030

- - - - - - - - - - - - - - POLYNUCLEAR AROMATIC HYDROCARBONS - - - - - - - - - - - - - - -

PARAMETER	RESULT (ug/L)	REPORTING LIMIT	EXTRACTION-ANALYSIS DATE	QC BATCH
Acenaphthene	ND	2.0	7/07- 7/12/95	5188030
Acenaphthylene	ND	2.0	7/07- 7/12/95	5188030
Anthracene	ND	2.0	7/07- 7/12/95	5188030
Benzo(a)anthracene	ND	0.10	7/07- 7/12/95	5188030
Benzo(b)fluoranthene	ND	0.10	7/07- 7/12/95	5188030
Benzo(k)fluoranthene	ND	0.15	7/07- 7/12/95	5188030
Benzo(ghi)perylene	ND	0.10	7/07- 7/12/95	5188030
Benzo(a)pyrene	ND	0.10	7/07- 7/12/95	5188030
Chrysene	ND	0.10	7/07- 7/12/95	5188030
Dibenz(a,h)anthracene	ND	0.10	7/07- 7/12/95	5188030
Fluoranthene	ND	0.20	7/07- 7/12/95	5188030
Fluorene	ND	2.0	7/07- 7/12/95	5188030
Indeno(1,2,3-cd)pyrene	ND	0.10	7/07- 7/12/95	5188030
2-Methylnaphthalene	ND	2.0	7/07- 7/12/95	5188030
Naphthalene	ND	2.0	7/07- 7/12/95	518[illegible]
Phenanthrene	ND	2.0	7/07- 7/12/95	5188030
Pyrene	ND	0.20	7/07- 7/12/95	5188030
1-Methylnaphthalene	ND	2.0	7/07- 7/12/95	5188030

NOTE:

ND NOT DETECTED AT THE STATED REPORTING LIMIT

008893

Quanterra Environmental Services

CHECK SAMPLE REPORT

QC BATCH: 5199038
LAB #: B5G180000-038 C

PREPARATION DATE: 7/17/95
DATE ANALYZED: 7/17/95

- GC Volatiles -

COMPOUND	SPIKE PERCENT RECOVERY	Q/C LIMITS
Benzene	115	(39-150)
Toluene	115	(46-148)
Chlorobenzene	114	(55-135)
Ethylbenzene	114	(32-160)
1,3-Dichlorobenzene	110	(50-141)
1,4-Dichlorobenzene	110	(42-143)
1,2-Dichlorobenzene	107	(37-154)

Quanterra Environmental Services

CHECK SAMPLE REPORT

QC BATCH: 5188030
LAB #: B5G070000-030 C

PREPARATION DATE: 7/07/95
DATE ANALYZED: 7/12/95

- - - - - - - - - - - - - - - Polynuclear Aromatic Hydrocarbons - - - - - - - - - - - - - -

COMPOUND	SPIKE PERCENT RECOVERY	Q/C LIMITS
Naphthalene	61	(10-122)
1-Methylnaphthalene	65	(30-130)
Acenaphthene	75	(10-124)
Fluorene	65	(10-142)
Pyrene	83	(10-140)
Chrysene	86	(10-199)

008893

Quanterra Environmental Services

MATRIX SPIKE REPORT

QC BATCH: 5199038
LAB #: B5G140101-001 S
MATRIX: WATER

WO #: C0767
PREPARATION DATE: 7/17/95
DATE ANALYZED: 7/17/95

GC Volatiles

COMPOUND	SPIKE PERCENT RECOVERY	Q/C LIMITS
Benzene	114	(70-117)
Toluene	112	(70-117)
Chlorobenzene	113	(58-133)
Ethylbenzene	109	(84-106)
1,3-Dichlorobenzene	111	(81-115)
1,4-Dichlorobenzene	115	(84-115)
1,2-Dichlorobenzene	111	(85-119)

Calculations are performed before rounding to avoid round-off errors in calculated results

Quanterra
Environmental Services

MATRIX SPIKE REPORT

QC BATCH: 5188030
LAB #: B5G060104-001 S
MATRIX: WATER

WO #: C04PT
PREPARATION DATE: 7/07/95
DATE ANALYZED: 7/13/95

- - - - - - - - - - - - - - - Polynuclear Aromatic Hydrocarbons - - - - - - - - - - - - - -

COMPOUND	SPIKE PERCENT RECOVERY	SPIKE/DUP PERCENT RECOVERY	Q/C LIMITS	RPD	RPD LIMIT
Naphthalene	41	34	(10-122)	19	(0-50)
1-Methylnaphthalene	54	52	(30-130)	3.4	(0-30)
Acenaphthene	70	50	(10-124)	33	(0-50)
Fluorene	51	33	(10-142)	45	(0-50)
Pyrene	94	86	(10-140)	9.3	(0-50)
Chrysene	87	85	(10-199)	1.6	(0-50)

Calculations are performed before rounding to avoid round-off errors in calculated results

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Quanterra Environmental Services, Tampa
Sample Shipper Evaluation and Receipt Form

Client: ABB-ES

Project Name/Number: GSS PANAMA CITY SITE 32

Samples Received by: [signature] Date Received: 7.6.95
Signature

Sample Evaluation Form by: [signature]
Signature

Type of shipping containers samples received in:

Quanterra cooler: ✓ Client cooler: ____

Quanterra shipper ____ Box ____ Other ____

Any "NO" responses or discrepancies should be explained in the "Comments" section.

		Yes	No
1)	Were custody seals on shipping container(s) intact?	✓	
2)	Were custody papers properly included with samples?	✓	
3)	Were custody papers properly filled out (ink, signed, match labels)?	✓	
4)	Did all bottles arrive in good condition (unbroken)?	✓	
5)	Were all bottle labels complete (sample no., date, signed, analysis preservatives)?	✓	
6)	Were correct bottles used for the tests indicated?	✓	
7)	Were proper sample preservativion techniques indicated?	✓	
8)	Were samples received within adequate holding times?	✓	
9)	Were all VOA bottles checked for the presence of air bubbles? (If air bubbles were found, indicate in comment section)	✓	
10)	Were samples in direct contact with wet ice? NOTE TEMPERATURE BELOW	✓	
11)	Were samples accepted into the laboratory? (If "No", see comments)	✓	

Cooler # ____ Temp 4 C Cooler # ____ Temp. ____ C

Comments: ____

Interlaboratory Chain of Custody

BRECKENRIDGE PKWY., STE. H
TAMPA, FL 33610
PHONE (813) 621-0784 FAX (813) 623-6021

Quanterra Environmental Services

CLIENT CODE _____

QUOTE / SAR NUMBER 101316

Chain-of Custody Record

77920

PROJ. NO. 7520-51

PROJECT NAME/LOCATION: CSS PANAMA CITY SITE 325

SAMPLERS: (Signature) Jay Koch

STA. NO.	DATE	TIME	COMP.	GRAB.	STATION LOCATION	NO. OF CONTAINERS	PARAMETER: 602 w/HCl	PARAMETER: 610 No Preservative						REMARKS
	7/5/95	0730		X	PCY-325-EB1	5	3	2						
	7/5/95	0730		X	PCY-325-TW1	5	3	2						
				X	TRIP BLANK	3	3							

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Jay Koch	7/5/95 1200	7.6.95 9:30			
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks	

Distribution Original Accompanies Shipment. Copy returned with Report.

008893

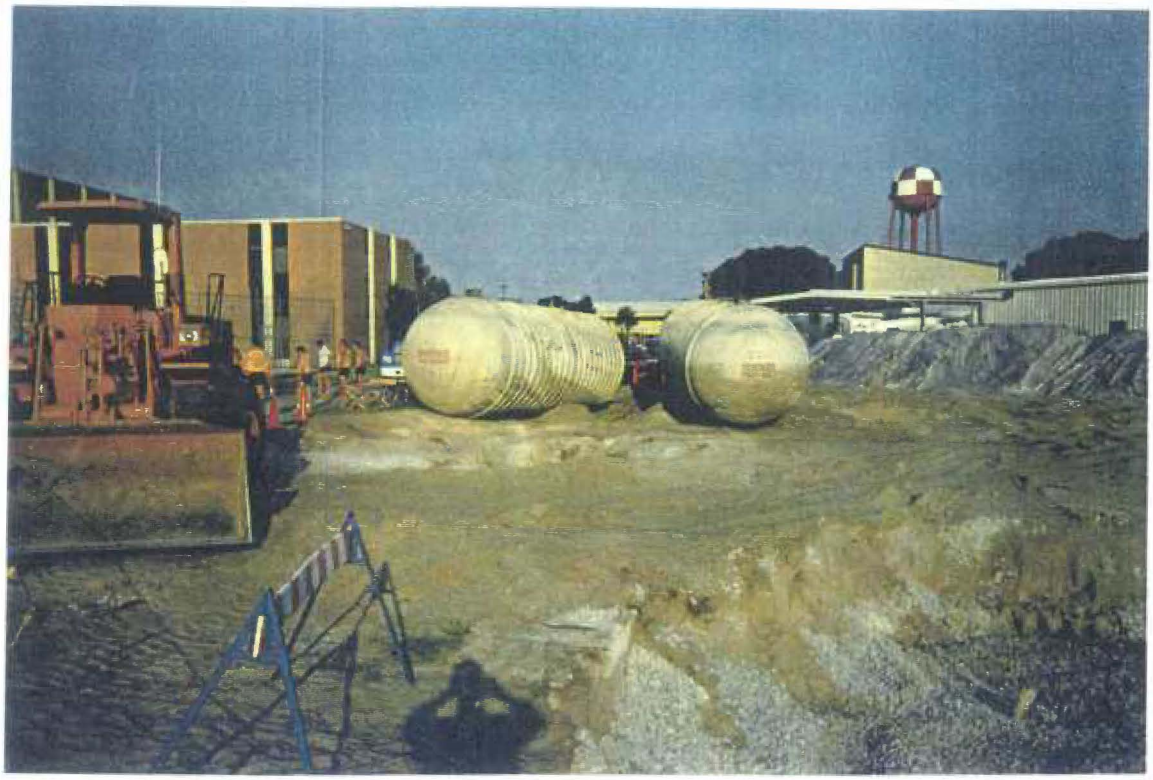
APPENDIX D

PHOTOGRAPHS

008893

CONTENTS

Photograph No.	Title
1	Two-20,000 gallon tanks. Temporary storage prior to demolition.
2	Decontamination of 20,000 gallon tank.
3	Demolition of 20,000 gallon tanks.
4	#4 stone in place at tank excavation.
5	Backfill and compacted soil over #4 stone in tank excavation.
6	Finished backfill of storage tank excavation.
7	Subcontractor loading contaminated soil for hauling to thermal treatment facility.
8	Removing south oily waste tank.
9	Sawcutting concrete on north end of panograph.
10	Tarmac lighting and utility crossing (duct bank).
11	Excavation of JP-5 pipelines to tank and tarmac.
12	Pull JP-5 pipelines.
13	North end of JP-5 pipelines at panograph. Removing concrete at valve box.
14	Backfill trench.
15	Compacted sand at valve box area.
16	Demolish north end 300 gallon oily waste tank.
17	Placing concrete at filter/valve box road crossing area.
18	Placing concrete at north end of panograph area.
19	Finishing concrete at panograph area.
20	Excavate for and pull JP-5 pipeline (end of line).
21	Concrete cured. Cleanup ongoing (Final).



1	06/95	Two-20,000 gallon tanks. Temporary storage prior to demolition	Site 325, Panama City, Florida

2	06/95	Decontamination of 20,000 gallon tank.	Site 325, Panama City, Florida

3	06/95	Demolition of 20,000 gallon tanks.	Site 325, Panama City, Florida

4	06/95	#4 stone in place at tank excavation.	Site 325, Panama City, Florida

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Project: 22567-421

5	06/95	Backfill and compacted soil over #4 stone in tank excavation.	Site 325, Panama City, Florida

6	06/95	Finished backfill of storage tank excavation	Site 325, Panama City, Florida

7	06/95	Subcontractor loading contaminated soil for hauling to thermal treatment facility.	Site 325, Panama City, Florida

8	06/95	Removing south oily waste tank.	Site 325, Panama City, Florida

9	07/95	Sawcutting concrete on north end of panograph.	Site 325, Panama City, Florida

10	07/95	Tarmac lighting and utility crossing (duct bank).	Site 325, Panama City, Florida

11	07/95	Excavation of JP-5 pipelines to tank and tarmac	Site 325, Panama City, Florida

12	07/95	Pull JP-5 pipelines..	Site 325, Panama City, Florida

13	07/95	North end of JP-5 pipeline at panograph. Removing concrete at valve box.	Site 325, Panama City, Florida

14	07/95	Backfill trench.	Site 325, Panama City, Florida

15	07/95	Compacted sand at valve box area.	Site 325, Panama City, Florida

16	07/95	Demolish north end 300 gallon oily waste tank.	Site 325, Panama City, Florida

17	07/95	Placing concrete at filter/valve box road crossing area.	Site 325, Panama City, Florida

18	07/95	Placing concrete at north end of panograph area.	Site 325, Panama City, Florida

19	07/95	Finishing concrete at panograph area.	Site 325, Panama City, Florida

20	07/95	Excavate for and pull JP-5 pipeline (end of line).	Site 325, Panama City, Florida

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Project: 22567-421

21	07/95	Concrete cured. Cleanup ongoing. (Final)	Site 325, Panama City, Florida

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APPENDIX E

SUMMARY OF MANIFESTS

008893

Weight Manifests for Petroleum Contaminated Soil
Offsite Thermal Treatment – HUDSCO, Inc.
Naval Coastal Systems
Panama City
Site 325

DATE		TONS
06/23/95		18.06
06/23/95		26.68
06/23/95		17.59
06/23/95		19.11
06/23/95		20.32
06/23/95		19.16
06/23/95		18.79
06/23/95		19.64
06/23/95		22.00
06/23/95		19.19
06/23/95		25.10
06/23/95		19.02
06/23/95		19.64
06/23/95		17.13
06/23/95		20.92
06/23/95		22.80
06/23/95		32.24
06/23/95		17.50
06/24/95		20.55
	Subtotal	395.44
07/12/95		15.65
07/12/95		18.03
07/12/95		16.21
07/12/95		13.98
07/12/95		14.00
07/12/95		14.63
07/12/95		16.51
07/12/95		15.94
07/12/95		15.52
07/12/95		18.11
07/12/95	Subtotal	158.58
	Grand Total	554.02

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APPENDIX F

DATA SHEET AND POSTERETTE

008893

PROJECT DATA SHEET
NAVFAC SOUTHDIV

Project: Site 325

Location:
CSS Panama City, Florida

Navy Contact: Van Smith
Phone: (904) 234-4762

Bechtel Contact: Steve Cowan
Phone: (423) 220-2603

Project Description:

Site 325 was a JP-5 helicopter fueling system consisting of three 20,000-gal USTs; a fuel distribution system with two fuel filtration systems, each having a 300-gal waste UST; and 550 ft of pipeline trench containing multiple pipelines leading to a pantograph/fuel hydrant system at the helicopter flight line. Free product had been discovered during installation of monitoring wells for a site remedial investigation. Testing performed at the direction of CSS had revealed a leaking pipeline, which was removed from service. Remediation activities included removal of free product and contaminated soil for offsite disposal, and closure of the tanks and fuel system by complete excavation and removal. Some components of the fueling system were salvaged and turned over to the Navy for use in a new helicopter fueling system to be installed using above ground storage tanks.

TFMR - Project Controls
Project Innovations and Cost Savings:

Because a new hydrant pipeline system was planned for installation in the same trench in the near future, backfill and pavement designs were adjusted to use fiber-reinforced concrete as a temporary pavement material. This provided satisfactory integrity for heavy helicopter traffic, while facilitating future pavement removal for installation of the future fuel system. The fiber-reinforced concrete was more economical than asphalt when placed in small quantities, and it is easy to demolish in order to place new pipeline.

To maintain the flight line area in a clean and debris-free condition during removal of the hydrant pipeline, work was performed in discrete segments. Compaction and repaving were also performed in segments to minimize open excavations and to avoid interruptions to use of the helipad.

Scheduled Completion: July 1995 **Actual Completion**: July 1995

Budget: Phase 3 $460,945 **Cost**: Phase 3 $295,000

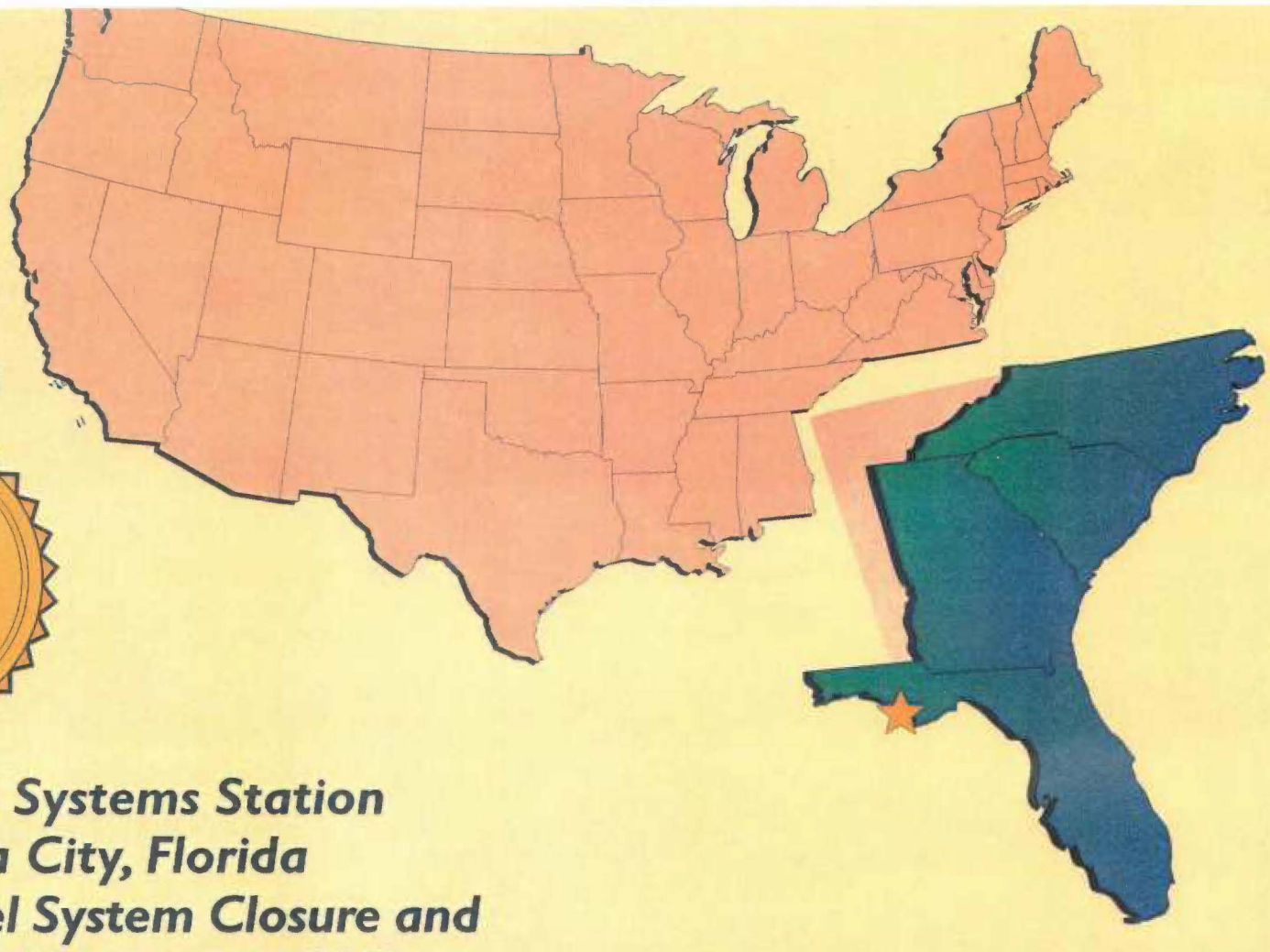
Scope Additions:

Original scope included the removal of three 20,000-gal JP-5 USTs, pumping station, truck refueling station, fuel filtration system, and a 300-gal waste UST. An additional 550 ft trench containing 4-in. supply and return pipeline from the truck refueling area to the pantograph was removed, plus the pantograph and a second fuel filtration system with another 300-gal waste UST.

Southern Division
Naval Facilities Engineering Command

NAVY REGIONAL Completed Sites

17th Completed Site



Coastal Systems Station Panama City, Florida JP-5 Fuel System Closure and Remediation at Site 325

Starting as an Initial Removal Action (IRA) for recovery of JP-5 free product at Site 325, this task was expanded to include complete closure of the tank farm and JP-5 distribution system. Consisting of three 20,000 gallon fiberglass USTs, the tank farm served truck and helicopter refueling stations each having a dedicated fuel filter/separator system. Two 300 gallon oily water USTs were also removed, along with 2,067 feet of 2 to 4 inch JP-5 pipeline. The source of the fuel release was found in the buried piping between the tank farm and truck refueling station.

Following sludge removal and cleaning, fiberglass USTs were demolished onsite prior to offsite disposal.

Demolition of 300 gallon UST; vacuum truck in background.

Concrete pavement removal at the helicopter refueling station.

Sawcutting pavement for pipeline removal across the helipad flightline area.

Oily water UST from the tank farm fuel dewatering system.

Concrete was replaced in increments to enable flightline to remain operational and to minimize foreign object debris (FOD) during demolition of the JP-5 pipeline.

BECHTEL

Z10.4 9204.2

SECTION 1

TREATMENT CERTIFICATES

AND

MANIFESTS

Treatment Certificate

Be it Known on this 13th *day of* July, *1995*

Hudsco, Inc.

On Behalf of

Bechtel Environmental, Inc (Naval Coastal Systems, Panama City, FL)

Did Thermally Treat 160 *Tons of Petroleum Contaminated Soil in Accordance with FAC 62-775.*
The results of the post treatment analysis performed on this soil by an Independent Testing Laboratory are as follows:

Metals

As ND ppm	Ba 1 ppm	Cd ND ppm	Cr 2 ppm
Pb ND ppm	Hg ND ppm	Se ND ppm	Ag ND ppm

TRPH's 26 ppm	VOH's * ppm
PAH's ND ppm	BTEX 5 ppb

**FDEP Job Specific Exemption*

Douglas Studer
Operations Director

Sol Studer
~~Technical Director~~
President

008893

Treatment Certificate

Be it Known on this 14th *day of* July *, 1995*

Hudsco, Inc.

On Behalf of

Bechtel Environmental, Inc (Naval Coastal Systems, Panama City, FL)

Did Thermally Treat 74.02 *Tons of Petroleum Contaminated Soil in Accordance with FAC 62-775.*
The results of the post treatment analysis performed on this soil by an Independent Testing Laboratory are as follows:

Metals

As ND *ppm*	*Ba* 1 *ppm*	*Cd* ND *ppm*	*Cr* 2 *ppm*
Pb ND *ppm*	*Hg* ND *ppm*	*Se* ND *ppm*	*Ag* ND *ppm*

TRPH's 37 *ppm*	*VOH's* * *ppm*
PAH's ND *ppm*	*BTEX* 4 *ppb*

**FDEP Job Specific Exemption*

Operations Director

~~*Technical Director*~~
President

008893

Treatment Certificate

Be it Known on this 26th *day of* June *, 1995*

Hudsco, Inc.

On Behalf of

Bechtel Environmental, Inc (Naval Coastal Systems, Panama City, FL)

Did Thermally Treat 160 *Tons of Petroleum Contaminated Soil in Accordance with FAC 62-775.*
The results of the post treatment analysis performed on this soil by an Independent Testing Laboratory are as follows:

Metals

As ND *ppm*	*Ba* 2 *ppm*	*Cd* ND *ppm*	*Cr* 2 *ppm*
Pb ND *ppm*	*Hg* ND *ppm*	*Se* ND *ppm*	*Ag* ND *ppm*

TRPH's ND *ppm*	*VOH's* * *ppm*
PAH's ND *ppm*	*BTEX* 18 *ppb*

**FDEP Job Specific Exemption*

Douglas Hudson
Operations Director

Hal Hudson
~~*Technical Director*~~
President

008893

Treatment Certificate

Be it Known on this 27th *day of* June, *1995*

Hudsco, Inc.

On Behalf of

Bechtel Environmental, Inc (Naval Coastal Systems, Panama City, FL)

Did Thermally Treat 160 *Tons of Petroleum Contaminated Soil in Accordance with FAC 62-775.*
The results of the post treatment analysis performed on this soil by an Independent Testing Laboratory are as follows:

Metals

As ND *ppm*	*Ba* 2 *ppm*	*Cd* ND *ppm*	*Cr* 3 *ppm*
Pb ND *ppm*	*Hg* ND *ppm*	*Se* ND *ppm*	*Ag* ND *ppm*

TRPH's 28 *ppm*	*VOH's* * *ppm*
PAH's ND *ppm*	*BTEX* ND *ppb*

**FDEP Job Specific Exemption*

Operations Director

~~*Technical Director*~~
President

008893

008893

elite (12-pitch) typewriter.)

-HAZARDOUS
TE MANIFEST

1. Generator's US EPA ID No.: na

Manifest Document No.: 0001

2. Page 1 of

ıme and Mailing Address

:oastal Systems Center
City, FL
one ( )

ompany Name | 6. US EPA ID Number

ompany Name | 8. US EPA ID Number

ility Name and Site Address | 10. US EPA ID Number

nc
Starr Dr
Fl

A. Transporter's Phone

B. Transporter's Phone

C. Facility's Phone: 904-477-7088

g Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
Regulated Material			1.7	yd
62240GR				
26120TR 36120NT				

ptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

ı Instructions and Additional Information

ERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

me: HELMBRECHT | Signature: Ernest Helmbrecht | Month 10.6 | Day 23 | Year 95

ıowledgement of Receipt of Materials

me: uy Green | Signature: Anthony J. Green II | Month | Day | Year

ıowledgement of Receipt of Materials

me | Signature | Month | Day | Year

tion Space

18.06 Tons

perator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

SCO, Inc

ıe: Hudson | Signature | Month 6 | Day 23 | Year 95

14. Unit Wt/Vol

ove

rdous Waste.

Day 23 | Year 95

Day 15 | Year 95

Day | Year

Day 23 | Year 95

008893

Please print or type.
(Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: na

Manifest Document No.: 0002

2. Page 1 of

3. Generator's Name and Mailing Address
Naval Coastal Systems Center
Panama City, FL

4. Generator's Phone ( )

5. Transporter 1 Company Name: GFD

6. US EPA ID Number

7. Transporter 2 Company Name

8. US EPA ID Number

9. Designated Facility Name and Site Address
HUDSCO, Inc
8810 Paul Starr Dr
Pensacola, Fl

10. US EPA ID Number

A. Transporter's Phone

B. Transporter's Phone

C. Facility's Phone: 904-477-7088

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. Non-DOT Regulated Material				
b.				
c.				

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above
88900GR
35540TR
~~53360NT~~

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: ERNEST HELMBRECHT
Signature: Ernest Helmbrecht
Month 06 Day 23 Year 95

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: ROBERT BALDWIN
Signature: Robert Baldwin
Month 6 Day 23 Year 95

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name
Signature
Month Day Year

19. Discrepancy Indication Space
26.68 tons

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.
Hudsco, Inc

Printed/Typed Name: HAL HUDSON
Signature: Hal Hudson
Month 6 Day 23 Year 95

GENERATOR
TRANSPORTER
FACILITY

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NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: na

Manifest Document No.: 0003

2. Page 1 of

3. Generator's Name and Mailing Address
Naval Coastal Systems Center
Panama City, FL

4. Generator's Phone ( )

5. Transporter 1 Company Name: GFD

6. US EPA ID Number

7. Transporter 2 Company Name

8. US EPA ID Number

9. Designated Facility Name and Site Address
HUDSCO, Inc
8810 Paul Starr Dr
Pensacola, Fl

10. US EPA ID Number

A. Transporter's Phone

B. Transporter's Phone

C. Facility's Phone: 904-477-7088

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. Non-DOT Regulated Material				
b.				
c.				

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above
22380TR
35180NT

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: ERNEST HELMBRECHT
Signature: Ernest Helmbrecht
Month 06 Day 23 Year 95

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: LAMBERT J BOGGAN
Signature: Lambert J Boggan
Month 06 Day 23 Year 95

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name
Signature
Month Day Year

19. Discrepancy Indication Space
17.59 tons

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.
HUDSCO, INC

Printed/Typed Name: Hal Hudson
Signature: Hal Hudson
Month 06 Day 23 Year 95

GENERATOR
TRANSPORTER
FACILITY

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NON-HAZARDOUS WASTE MANIFEST	1. Generator's US EPA ID No. na	Manifest Document No. 0004	2. Page 1 of

3. Generator's Name and Mailing Address
Naval Coastal Systems Center
Panama City, FL
4. Generator's Phone ( )

5. Transporter 1 Company Name: GFD
6. US EPA ID Number

7. Transporter 2 Company Name
8. US EPA ID Number

9. Designated Facility Name and Site Address
HUDSCO, Inc
8810 Paul Starr Dr
Pensacola, Fl
10. US EPA ID Number

A. Transporter's Phone
B. Transporter's Phone
C. Facility's Phone 904-477-7088

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. Non-DOT Regulated Material				
b.				
c.				

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above
62820GR
24600TR
38220NT

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name	Signature	Month	Day	Year
ERNEST HELMBRECHT	Ernest Helmbrecht	06	23	95

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
OLIVER FILLMORE	Oliver Fillmore	06	23	95

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

19. Discrepancy Indication Space
19.11 tons

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.
Hudsco, Inc

Printed/Typed Name	Signature	Month	Day	Year
Hal Hudsco, Inc	[illegible]	6	23	95

GENERATOR
TRANSPORTER
FACILITY

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NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: na

Manifest Document No.: 0005

2. Page 1 of

3. Generator's Name and Mailing Address
Naval Coastal Systems Center
Panama City, FL

4. Generator's Phone ( )

5. Transporter 1 Company Name: GFD

6. US EPA ID Number

7. Transporter 2 Company Name

8. US EPA ID Number

9. Designated Facility Name and Site Address
HUDSCO, Inc
8810 Paul Starr Dr
Pensacola, Fl

10. US EPA ID Number

A. Transporter's Phone

B. Transporter's Phone

C. Facility's Phone: 904 477 7088

11. Waste Shipping Name and Description	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt/Vol
a. Non-DOT Regulated Material			17	TN
b.				
c.				

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

61740GR
21400TR
40640NT

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: Michael D. Clayton
Signature: Michael D. Clayton
Month 06 Day 23 Year 95

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Charles Rivers
Signature: Charles Rivers
Month 06 Day 23 Year 95

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name
Signature
Month Day Year

19. Discrepancy Indication Space

20.32 tons

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.
Hudsco, Inc

Printed/Typed Name: Hal Hudson
Signature: Hal Hudson
Month 6 Day 23 Year 95

GENERATOR
TRANSPORTER
FACILITY

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NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: na.
Manifest Document No.: 0008
2. Page 1 of

3. Generator's Name and Mailing Address
Naval Coastal Systems Center
Panama City, FL
4. Generator's Phone ( )

5. Transporter 1 Company Name: GFD
6. US EPA ID Number

7. Transporter 2 Company Name
8. US EPA ID Number

9. Designated Facility Name and Site Address
HUDSCO, Inc
8810 Paul Starr Dr
Pensacola, Fl
10. US EPA ID Number

A. Transporter's Phone
B. Transporter's Phone
C. Facility's Phone 904-477-7088

11. Waste Shipping Name and Description	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt/Vol
a. Non-DOT Regulated Material			17	LU
b.				
c.				

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
59120GR
20800TR
38320NT

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: Michael D. Clayton
Signature: Michael D. Clayton
Month 06 Day 23 Year 85

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Herbert L. Brown
Signature: Herbert L. Brown
Month 06 Day 23 Year 85

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name
Signature
Month Day Year

19. Discrepancy Indication Space
19.16 tons

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in item 19.
Hudsco, Inc

Printed/Typed Name: Hal Hudson
Signature: Hal Hudson
Month 06 Day 23 Year 85

008893

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NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: na

Manifest Document No.: 0007

2. Page 1 of

3. Generator's Name and Mailing Address
Naval Coastal Systems Center
Panama City, FL

4. Generator's Phone ( )

5. Transporter 1 Company Name: GFD

6. US EPA ID Number

7. Transporter 2 Company Name

8. US EPA ID Number

9. Designated Facility Name and Site Address
HUDSCO, Inc
8810 Paul Starr Dr
Pensacola, Fl

10. US EPA ID Number

A. Transporter's Phone

B. Transporter's Phone

C. Facility's Phone: 904-477-7088

11. Waste Shipping Name and Description	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt/Vol
a. Non-DOT Regulated Material			17	411
b.				
c.				

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

60520GR
22940TR
37580NT

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: Michael D. Clayton
Signature: Michael D. Clayton
Month 06 Day 23 Year 95

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Jeff Gilbert
Signature:
Month 06 Day 23 Year 95

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name
Signature
Month Day Year

19. Discrepancy Indication Space

18.79

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.
Hudsco, Inc

Printed/Typed Name: Hal Hudson
Signature:
Month 06 Day 23 Year 95

GENERATOR
TRANSPORTER
FACILITY

008893 #8

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NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: na
Manifest Document No.: 0008
2. Page 1 of

3. Generator's Name and Mailing Address
Naval Coastal Systems Center
Panama City, FL
4. Generator's Phone ( )

5. Transporter 1 Company Name: GFD
6. US EPA ID Number:

7. Transporter 2 Company Name:
8. US EPA ID Number:

9. Designated Facility Name and Site Address
HUDSCO, Inc
8810 Paul Starr Dr
Pensacola, Fl
10. US EPA ID Number:

A. Transporter's Phone
B. Transporter's Phone
C. Facility's Phone: 904-477-7088

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. Non-DOT Regulated Material			17	10
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

62140GR
22860TR
39280NT

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name	Signature	Month	Day	Year
ARTURO McDONALD	[signature]	06	23	95

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
Jeff Wright	Jeff Wright	06	23	95

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

19. Discrepancy Indication Space

19.64

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.
Hudsco, Inc

Printed/Typed Name	Signature	Month	Day	Year
Hal Hudson	[signature]	06	23	95

GENERATOR

TRANSPORTER

FACILITY

008893 #9

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NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: na

Manifest Document No.: 0009

2. Page 1 of

3. Generator's Name and Mailing Address
Naval Coastal Systems Center
Panama City, FL

4. Generator's Phone ( )

5. Transporter 1 Company Name: GFD

6. US EPA ID Number

7. Transporter 2 Company Name

8. US EPA ID Number

9. Designated Facility Name and Site Address
HUDSCO, Inc
8810 Paul Starr Dr
Pensacola, Fl

10. US EPA ID Number

A. Transporter's Phone

B. Transporter's Phone

C. Facility's Phone: 904-477-7088

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. Non-DOT Regulated Material			17	yd³
b.				
c.				

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
68300GR
24300TR
44000NT

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: ARTURO McDONALD | Signature | Month 06 Day 23 Year 95

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: OLIVER FILLMORE | Signature: Oliver Fillmore | Month 06 Day 23 Year 95

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Month Day Year

19. Discrepancy Indication Space
2200 tons

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.
Hudsco, Inc

Printed/Typed Name: HAL Hudson | Signature | Month 06 Day 23 Year 95

GENERATOR

TRANSPORTER

FACILITY

Rev. 9/82

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NON-HAZARDOUS WASTE MANIFEST	1. Generator's US EPA ID No. na	Manifest Document No. 0010	2. Page 1 of

3. Generator's Name and Mailing Address
Naval Coastal Systems Center
Panama City, FL
4. Generator's Phone ( )

5. Transporter 1 Company Name: GFD
6. US EPA ID Number

7. Transporter 2 Company Name
8. US EPA ID Number

9. Designated Facility Name and Site Address
HUDSCO, Inc
8810 Paul Starr Dr
Pensacola, Fl
10. US EPA ID Number

A. Transporter's Phone
B. Transporter's Phone
C. Facility's Phone 904-477-7088

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. Non-DOT Regulated Material			17	yd³
b.				
c.				

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
59440GR
21060TR
38380NT

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name	Signature	Month	Day	Year
ARVIRO McDONALD	[signature]	06	23	95

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
CHARLES RIVERS	Charles Rivers	06	23	95

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

19. Discrepancy Indication Space
19.19 tons

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.
HudSCO, Inc

Printed/Typed Name	Signature	Month	Day	Year
HAL Hudson	[signature]	06	23	95

GENERATOR
TRANSPORTER
FACILITY

#12

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NON-HAZARDOUS WASTE MANIFEST	1. Generator's US EPA ID No. na	Manifest Document No. 0011	2. Page 1 of

3. Generator's Name and Mailing Address
Naval Coastal Systems Center
Panama City, FL
4. Generator's Phone ( )

5. Transporter 1 Company Name: GFD — 6. US EPA ID Number

7. Transporter 2 Company Name — 8. US EPA ID Number

9. Designated Facility Name and Site Address: HUDSCO, Inc, 8810 Paul Starr Dr, Pensacola, Fl — 10. US EPA ID Number

A. Transporter's Phone
B. Transporter's Phone
C. Facility's Phone 904 477-7088

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. Non-DOT Regulated Material			17	yd³
b.				
c.				

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
85740GR
35540TR
50200NT

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name	Signature	Month	Day	Year
ARTURO McDONALD	[signature]	06	23	95

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
	[signature]	06	23	95

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

19. Discrepancy Indication Space
25.10 tons

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.
Hudsco, Inc

Printed/Typed Name	Signature	Month	Day	Year
Hal Hudson	[signature]	06	23	95

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NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: na

Manifest Document No.: 0012

2. Page 1 of

3. Generator's Name and Mailing Address
Naval Coastal Systems Center
Panama City, FL

4. Generator's Phone ( )

5. Transporter 1 Company Name: GFD

6. US EPA ID Number

7. Transporter 2 Company Name

8. US EPA ID Number

9. Designated Facility Name and Site Address
HUDSCO, Inc
8810 Paul Starr Dr
Pensacola, Fl

10. US EPA ID Number

A. Transporter's Phone

B. Transporter's Phone

C. Facility's Phone: 904-477-7088

11. Waste Shipping Name and Description	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt/Vol
a. Non-DOT Regulated Material			17	13
b.				
c.				
d				

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

63280GR
25240TR
38040NT

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: ARTURO McDONALD
Signature
Month Day Year: 06 23 95

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name
Signature
Month Day Year: 06 23 95

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name: Herbert L. Brown
Signature: Herbert L. Brown
Month Day Year

19. Discrepancy Indication Space

19.02 tons

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in item 19.
Hudsco, Inc

Printed/Typed Name: Hal Hudson
Signature
Month Day Year: 06 23 95

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NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: na

Manifest Document No.: 0013

2. Page 1 of

3. Generator's Name and Mailing Address
Naval Coastal Systems Center
Panama City, FL

4. Generator's Phone ( )

5. Transporter 1 Company Name: GFD

6. US EPA ID Number

7. Transporter 2 Company Name

8. US EPA ID Number

9. Designated Facility Name and Site Address
HUDSCO, Inc
8810 Paul Starr Dr
Pensacola, Fl

10. US EPA ID Number

A. Transporter's Phone

B. Transporter's Phone

C. Facility's Phone: 904-477-7088

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. Non-DOT Regulated Material			17	
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

59600GR
20320TR
39280NT

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: ARTURO McDONALD | Signature | Month 06 Day 23 Year 95

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: ROBERT BILLUIS | Signature | Month 06 Day 23 Year 95

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Month | Day | Year

FACILITY

19. Discrepancy Indication Space

19.64 tons

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Hudsco, Inc

Printed/Typed Name: HAL Hudson | Signature | Month 06 Day 23 Year 95

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NON-HAZARDOUS WASTE MANIFEST	1. Generator's US EPA ID No. na	Manifest Document No. 0014	2. Page 1 of

3. Generator's Name and Mailing Address
Naval Coastal Systems Center
Panama City, FL

4. Generator's Phone ( )

5. Transporter 1 Company Name: GFD
6. US EPA ID Number

7. Transporter 2 Company Name
8. US EPA ID Number

9. Designated Facility Name and Site Address
HUDSCO, Inc
8810 Paul Starr Dr
Pensacola, Fl
10. US EPA ID Number

A. Transporter's Phone
B. Transporter's Phone
C. Facility's Phone 904-477-7088

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. Non-DOT Regulated Material				
b.				
c.				

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
56340GR
22080TR
34260NT

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name	Signature	Month	Day	Year
ARTURO McDONALD		06	23	95

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
Lambert J Boggus		06	23	95

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

19. Discrepancy Indication Space
17.13 tons

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.
HudSCO, Inc

Printed/Typed Name	Signature	Month	Day	Year
Hal Hudson		06	23	95

GENERATOR
TRANSPORTER
FACILITY

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NON-HAZARDOUS WASTE MANIFEST	1. Generator's US EPA ID No. na	Manifest Document No. 0015	2. Page 1 of

3. Generator's Name and Mailing Address
Naval Coastal Systems Center
Panama City, FL
4. Generator's Phone ( )

5. Transporter 1 Company Name: GFD
6. US EPA ID Number

7. Transporter 2 Company Name
8. US EPA ID Number

9. Designated Facility Name and Site Address
HUDSCO, Inc
8810 Paul Starr Dr
Pensacola, Fl
10. US EPA ID Number

A. Transporter's Phone
B. Transporter's Phone
C. Facility's Phone 904-477-7088

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. Non-DOT Regulated Material			17	yd³
b.				
c.				

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
62600GR
20760TR
41840NT

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.
Printed/Typed Name: Arturo McDonald | Signature | Month 06 Day 23 Year 95

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Herbert L. Brown | Signature | Month 06 Day 23 Year 95

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name | Signature | Month Day Year

19. Discrepancy Indication Space
20.92 tons

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.
Hudsco, Inc
Printed/Typed Name: Hal Hudson | Signature | Month 06 Day 23 Year 95

GENERATOR
TRANSPORTER
FACILITY

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NON-HAZARDOUS WASTE MANIFEST	1. Generator's US EPA ID No. na	Manifest Document No. 0018	2. Page 1 of	

3. Generator's Name and Mailing Address
Naval Coastal Systems Center
Panama City, FL
4. Generator's Phone ( )

5. Transporter 1 Company Name: GFD
6. US EPA ID Number

7. Transporter 2 Company Name
8. US EPA ID Number

9. Designated Facility Name and Site Address
HUDSCO, Inc
8810 Paul Starr Dr
Pensacola, Fl
10. US EPA ID Number

A. Transporter's Phone
B. Transporter's Phone
C. Facility's Phone 904-477-7088

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. Non-DOT Regulated Material			17	03
b.				
c.				

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
61120GR
26120TR
35000NT

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.
Printed/Typed Name: ARTURO McDONALD
Signature
Month Day Year: 06 23 95

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name
Signature: Anthony J. Hearn II
Month Day Year: 06 23 95

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name
Signature
Month Day Year

19. Discrepancy Indication Space
17.50 tons

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.
HudSCO, Inc
Printed/Typed Name: Hal Hudson
Signature
Month Day Year: 06 23 95

GENERATOR
TRANSPORTER
FACILITY

12-BLS-C5 Rev. 9/92

Tr #10 008893 MAN 16

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orm designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS WASTE MANIFEST	1. Generator's US EPA ID No. na	Manifest Document No. 0016	2. Page 1 of

3. Generator's Name and Mailing Address
Naval Coastal Systems Center
Panama City, FL
4. Generator's Phone ( )

5. Transporter 1 Company Name: GFD — 6. US EPA ID Number

7. Transporter 2 Company Name — 8. US EPA ID Number

9. Designated Facility Name and Site Address: HUDSCO, Inc, 8810 Paul Starr Dr, Pensacola, Fl — 10. US EPA ID Number

A. Transporter's Phone
B. Transporter's Phone
C. Facility's Phone: 904-477-7088

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. Non-DOT Regulated Material			17	yd³
b.				
c.				

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

68740GR ~~100000GR~~
23140TR ~~35520TR~~
45600NT ~~64480NT~~

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: ARTURO McDONALD — Signature — Month 10 Day 23 Year 95

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Jeff Wright — Signature — Month 10 Day 23 Year 95

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name — Signature — Month Day Year

19. Discrepancy Indication Space

22.80 tons

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.
Hudsco, Inc

Printed/Typed Name: Hal Hudson — Signature — Month 10 Day 23 Year 95

GENERATOR
TRANSPORTER
FACILITY

008893

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m designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: na

Manifest Document No.: 0017

2. Page 1 of

3. Generator's Name and Mailing Address

Naval Coastal Systems Center
Panama City, FL

4. Generator's Phone ( )

5. Transporter 1 Company Name: GFD

6. US EPA ID Number

7. Transporter 2 Company Name

8. US EPA ID Number

9. Designated Facility Name and Site Address

HUDSCO, Inc
8810 Paul Starr Dr
Pensacola, Fl

10. US EPA ID Number

A. Transporter's Phone

B. Transporter's Phone

C. Facility's Phone: 904-477-7088

11. Waste Shipping Name and Description	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt/Vol
a. Non-DOT Regulated Material			17	60
b.				
c.				
d				

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

100000GR
35520TR
64480NT

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: ARTHUR McDONALD | Signature: [signature] | Month 06 Day 23 Year 95

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Robert Baldwin | Signature: [signature] | Month 06 Day 23 Year 95

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Month | Day | Year

19. Discrepancy Indication Space

32.24 tons

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Hudsco, Inc

Printed/Typed Name: Hal Hudson | Signature: [signature] | Month 06 Day 23 Year 95

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m designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Document No. 0019

2. Page 1 of

3. Generator's Name and Mailing Address
NAVAL Coastal System Center
Panama City FL 32

4. Generator's Phone ( )

5. Transporter 1 Company Name
GFD

6. US EPA ID Number

479-3554

7. Transporter 2 Company Name

8. US EPA ID Number

9. Designated Facility Name and Site Address
HUDSCO INC
8410 Paul Stark Dr
Pensacola FL

10. US EPA ID Number

A. Transporter's Phone

B. Transporter's Phone

C. Facility's Phone

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. NON-Regulated material			17	lid
b.				
c.				

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

62120GR
21020TR
41100NT

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: Michael D. Clayton
Signature: Michael D. Clayton
Month 06 Day 24 Year 95

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: CHARLES RIVERS
Signature: Charles Rivers
Month 06 Day 24 Year 95

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name
Signature
Month Day Year

19. Discrepancy Indication Space

20-55 tons

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.
Hudsco, Inc.

Printed/Typed Name: HAL Hudson
Signature
Month 06 Day 24 Year 95

GENERATOR
TRANSPORTER
FACILITY

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: na

Manifest Document No.: 0020.

2. Page 1 of 1

3. Generator's Name and Mailing Address
Naval Coastal Systems Center
Panama City, FL

4. Generator's Phone ( )

5. Transporter 1 Company Name: GFD

6. US EPA ID Number

7. Transporter 2 Company Name

8. US EPA ID Number

9. Designated Facility Name and Site Address
HUDSCO, Inc
8810 Paul Starr Dr
Pensacola, Fl

10. US EPA ID Number

A. Transporter's Phone

B. Transporter's Phone

C. Facility's Phone: 904-477-7088

11. Waste Shipping Name and Description	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt/Vol
a. Non-DOT Regulated Material			1.7	yd³
b.				
c.				

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: Michael D. Clayton
Signature: Michael D. Clayton
Month 07 Day 12 Year 95

17. Transporter 1 Acknowledgement of Receipt of Materials
20 ID. NO. 56820 LB GR

Printed/Typed Name: Robert Baldwin
Signature: Robert Baldwin
Month 07 Day 12 Year 95

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name
Signature
Month Day Year

19. Discrepancy Indication Space

15.65

20 ID. NO.
56820 LB GR RECALLED
25500 LB TR
31300 LB NT

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in

Hudsco, Inc.

Printed/Typed Name: Hal Hudson
Signature: Hal Hudson
Month 7 Day 12 Year 95

GENERATOR

TRANSPORTER

FACILITY

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: na

Manifest Document No.: 0021

2. Page 1 of 1

3. Generator's Name and Mailing Address
Naval Coastal Systems Center
Panama City, FL

4. Generator's Phone ( )

5. Transporter 1 Company Name: GFD

6. US EPA ID Number

7. Transporter 2 Company Name

8. US EPA ID Number

9. Designated Facility Name and Site Address
HUDSCO, Inc
8810 Paul Starr Dr
Pensacola, Fl

10. US EPA ID Number

A. Transporter's Phone

B. Transporter's Phone

C. Facility's Phone 904-477-7088

11. Waste Shipping Name and Description	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt/Vol
a. Non-DOT Regulated Material			17	
b.				
c.				

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above
21 ID. NO.
60500 LB GR

15. Special Handling Instructions and Additional Information
21 ID. NO.
60500 LB GR RECALLED
~~24440~~ LB TR
36060 LB NT

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: Michael D. Clayton
Signature: Michael D. Clayton
Month Day Year: 07/12/95

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Oliver Fillmore
Signature: Oliver Fillmore
Month Day Year: 07/12/95

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name
Signature
Month Day Year

19. Discrepancy Indication Space
18.03

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.
Hudsco, Inc

Printed/Typed Name: Hal Hudson
Signature: Hal Hudson
Month Day Year: 7/12/95

GENERATOR

TRANSPORTER

FACILITY

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: na

Manifest Document No.: 0022

2. Page 1 of 1

3. Generator's Name and Mailing Address

Naval Coastal Systems Center
Panama City, FL

4. Generator's Phone ( )

5. Transporter 1 Company Name: GFD

6. US EPA ID Number

7. Transporter 2 Company Name

8. US EPA ID Number

9. Designated Facility Name and Site Address

HUDSCO, Inc
8810 Paul Starr Dr
Pensacola, Fl

10. US EPA ID Number

A. Transporter's Phone

B. Transporter's Phone

C. Facility's Phone: 904-477-7088

11. Waste Shipping Name and Description	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt/Vol
a. Non-DOT Regulated Material			17	UO
b.				
c.				

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

22 ID. NO.
55420 LB GR

15. Special Handling Instructions and Additional Information

22 ID. NO.
55420 LB GR RECALLED
23000 LB TR
32420 LB HT

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: Michael D. Clayton
Signature: Michael D. Clayton
Month Day Year: 07 12 95

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Jeff Wright
Signature: Jeff Wright
Month Day Year: 07 12 95

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name
Signature
Month Day Year

19. Discrepancy Indication Space

16, 21

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Hudsco, Inc

Printed/Typed Name: Hal Hudson
Signature: Hal Hudson
Month Day Year: 7 12 95

GENERATOR

TRANSPORTER

FACILITY

008893

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: na

Manifest Document No.: 0023

2. Page 1 of 1

3. Generator's Name and Mailing Address
Naval Coastal Systems Center
Panama City, FL

4. Generator's Phone ( )

5. Transporter 1 Company Name: GFD

6. US EPA ID Number

7. Transporter 2 Company Name

8. US EPA ID Number

9. Designated Facility Name and Site Address
HUDSCO, Inc
8810 Paul Starr Dr
Pensacola, FL

10. US EPA ID Number

A. Transporter's Phone

B. Transporter's Phone

C. Facility's Phone 904 477 7999

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. Non-DOT Regulated Material			17	13
b.				
c.				

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above
23 ID. NO.
51260 LB GR

15. Special Handling Instructions and Additional Information
23 ID. NO.
51260 LB GR RECALLED
23300 LB TR
27960 LB HT

GENERATOR

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: Michael D. Clayton
Signature: Michael D. Clayton
Month Day Year: 07 12 95

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Sandy McLaughlin
Signature: Sandy McLaughlin
Month Day Year: 07 12 95

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name
Signature
Month Day Year

FACILITY

19. Discrepancy Indication Space
13.98

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.
Hudsco, Inc

Printed/Typed Name: Al Hudson
Signature: Al Hudson
Month Day Year: 07 12 95

008893 ~~000004~~

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: na

Manifest Document No.: 0021

2. Page 1 of 1

GENERATOR

3. Generator's Name and Mailing Address
Naval Coastal Systems Center
Panama City, FL

4. Generator's Phone ( )

5. Transporter 1 Company Name: GFD

6. US EPA ID Number

7. Transporter 2 Company Name

8. US EPA ID Number

9. Designated Facility Name and Site Address
HUDSCO, Inc
8810 Paul Starr Dr
Pensacola, Fl

10. US EPA ID Number

A. Transporter's Phone

B. Transporter's Phone

C. Facility's Phone: 904-477-7088

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. Non-DOT Regulated Material			17	
b.				
c.				

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above
24 ID. NO.
50340 LB GR

15. Special Handling Instructions and Additional Information
24 ID. NO.
50340 LB GR RECALLED
22340 LB TR
28000 LB NT

TRANSPORTER

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: Michael D. Clayton
Signature: Michael D. Clayton
Month 07 Day 12 Year 95

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: [illegible]
Signature: [illegible]
Month 07 Day 12 Year 95

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name
Signature
Month Day Year

FACILITY

19. Discrepancy Indication Space
14.00

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.
Hudsco, Inc

Printed/Typed Name: Hal Hudson
Signature: [illegible]
Month 07 Day 12 Year 95

[redacted]

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: na

Manifest Document No.: 0025

2. Page 1 of 1

3. Generator's Name and Mailing Address
Naval Coastal Systems Center
Panama City, FL

4. Generator's Phone ( )

5. Transporter 1 Company Name: GFD

6. US EPA ID Number:

7. Transporter 2 Company Name:

8. US EPA ID Number:

9. Designated Facility Name and Site Address
HUDSCO, Inc
8810 Paul Starr Dr
Pensacola, Fl

10. US EPA ID Number:

A. Transporter's Phone:

B. Transporter's Phone:

C. Facility's Phone: 904-477-7088

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. Non-DOT Regulated Material			17	3
b.				
c.				

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above
25 ID. NO.
50960 LB GR

15. Special Handling Instructions and Additional Information
25 ID. NO.
50960 LB GR RECALLED
21700 LB TR
29260 LB NT

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: Michael D. Clayton
Signature: Michael D. Clayton
Month 07 Day 12 Year 95

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Herbert L. Brown
Signature: Herbert L. Brown
Month 07 Day 12 Year 95

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name:
Signature:
Month Day Year

19. Discrepancy Indication Space
14.63

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.
Hudsco, Inc

Printed/Typed Name: Hal Hudson
Signature: [signature]
Month 7 Day 12 Year 95

GENERATOR

TRANSPORTER

FACILITY

[redacted]

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: na

Manifest Document No.: 0025

2. Page 1 of 1

3. Generator's Name and Mailing Address
Naval Coastal Systems Center
Panama City, FL

4. Generator's Phone ( )

5. Transporter 1 Company Name: GFD

6. US EPA ID Number

7. Transporter 2 Company Name

8. US EPA ID Number

9. Designated Facility Name and Site Address
HUDSCO, Inc
8810 Paul Starr Dr
Pensacola, Fl

10. US EPA ID Number

A. Transporter's Phone

B. Transporter's Phone

C. Facility's Phone 904-477-7088

11. Waste Shipping Name and Description	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt/Vol
a. Non-DOT Regulated Material			17	5
b.				
c.				

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above
26 ID. NO.
53840 LB GR

15. Special Handling Instructions and Additional Information
26 ID. NO.
53840 LB GR RECALLED
20820 LB TR
33020 LB NT

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: Michael D. Clayton
Signature: Michael D. Clayton
Month 07 Day 17 Year 95

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Charles Fuers
Signature: Charles Fuers
Month 07 Day 17 Year 95

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name
Signature
Month Day Year

19. Discrepancy Indication Space
16.51

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name: Hudson
Signature
Month 07 Day 17 Year 95

GENERATOR

TRANSPORTER

FACILITY

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: na

Manifest Document No.: 0027

2. Page 1 of 1

3. Generator's Name and Mailing Address

Naval Coastal Systems Center
Panama City, FL

4. Generator's Phone ( )

5. Transporter 1 Company Name: GFD

6. US EPA ID Number

7. Transporter 2 Company Name

8. US EPA ID Number

9. Designated Facility Name and Site Address

HUDSCO, Inc
8810 Paul Starr Dr
Pensacola, FL

10. US EPA ID Number

A. Transporter's Phone

B. Transporter's Phone

C. Facility's Phone: 904-477-7938

11. Waste Shipping Name and Description	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt/Vol
a. Non-DOT Regulated Material			1.7	4/5
b.				
c.				

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

27 ID. NO.
57300 LB GR

15. Special Handling Instructions and Additional Information

27 ID. NO.
57300 LB GR RECALLED
25420 LB TR
31380 LB NT

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: Michael D. Clayton
Signature: Michael D. Clayton
Month 07 Day 12 Year 95

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Anthony Ryan II
Signature: Anthony Ryan II
Month 07 Day 12 Year 95

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name
Signature
Month Day Year

19. Discrepancy Indication Space

15.94

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Hudsco, Inc

Printed/Typed Name: Hal Hudson
Signature
Month 7 Day 12 Year 95

GENERATOR

TRANSPORTER

FACILITY

008893 ~~006604~~

Please print or type
Form designed for use on elite (12-pitch) typewriter

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: na
Manifest Document No.: 0028
2. Page 1 of 1

3. Generator's Name and Mailing Address
Naval Coastal Systems Center
Panama City, FL
4. Generator's Phone ( )

5. Transporter 1 Company Name: GFD
6. US EPA ID Number:

7. Transporter 2 Company Name:
8. US EPA ID Number:

9. Designated Facility Name and Site Address
HUDSCO, Inc
8810 Paul Starr Dr
Pensacola, Fl
10. US EPA ID Number:

A. Transporter's Phone:
B. Transporter's Phone:
C. Facility's Phone: 904-477-7088

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. Non-DOT Regulated Material			17	
b.				
c.				

D. Additional Descriptions for Materials Listed Above:

E. Handling Codes for Wastes Listed Above:
28 ID. NO.
56400 LB GR

15. Special Handling Instructions and Additional Information:
28 ID. NO.
56400 LB GR RECALLED
25360 LB TR
31040 LB NT

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name	Signature	Month	Day	Year
ARTURO McDONALD	[signature]	07	12	95

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
ROBERT B Baldwin	Robert Baldwin	7	12	95

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

19. Discrepancy Indication Space

15.52

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.
Hudsco, Inc

Printed/Typed Name	Signature	Month	Day	Year
Hal Hudson	[signature]	7	12	95

GENERATOR

TRANSPORTER

FACILITY

12-BLS-C5 Rev 9/92

008893 006604

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: na

Manifest Document No.: 0029

2. Page 1 of 1

3. Generator's Name and Mailing Address

Naval Coastal Systems Center
Panama City, FL

4. Generator's Phone ( )

5. Transporter 1 Company Name: GFD

6. US EPA ID Number:

7. Transporter 2 Company Name:

8. US EPA ID Number:

9. Designated Facility Name and Site Address

HUDSCO, Inc
8810 Paul Starr Dr
Pensacola, Fl

10. US EPA ID Number:

A. Transporter's Phone:
B. Transporter's Phone:
C. Facility's Phone: 904-477-7088

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. Non-DOT Regulated Material			17	3
b.				
c.				

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

29 ID No
57780 GT
21560 TR
36220 NLT

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name	Signature	Month	Day	Year
ARTURO McDONALD	[signature]	07	12	95

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
Herbert L. Brown	Herbert L. Brown	07	12	95

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

19. Discrepancy Indication Space

[signature]

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Hudsco, Inc

Printed/Typed Name	Signature	Month	Day	Year
Hal Hudson	[signature]			

GENERATOR

TRANSPORTER

CILITY

RUS GR Rev 9/92

SECTION 2

CONFIRMATORY SAMPLE RESULTS

~~008877~~
008893

Hudsco, Inc.

Contaminated Soil Specialists

August 23, 1995

Laurie Keller
Bechtel Environmental
151 Lafayette Dr
Oak Ridge, TN

Dear Laurie:

Here are the analysis reports you requested. Hope this is everything you need. If not, please do not hesitate to call Hal Hudson or me if you need more information. Thank you.

Sincerely,

Ellen

Ellen K. Saucer
Executive Coordinator

RECEIVED
SEP 1 5 1995
BECHTEL 22567

Pensacola, Florida 32501 (904) 438-7959 Fax (904) 432-3272

AnalyticalTechnologies,Inc. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

008893 ~~000877~~

SIGNATURE PAGE

Reviewed by: _____
ATI Project Manager

Client:	HUDSCO PENSACOLA, FLORIDA
Project Name:	BECHTEL
Project Number:	N/S
Project Location:	NCSC/HUDSCO
Accession Number:	507272
Project Manager:	RICK SINGER
Sampled By:	SINGER/HUDSON

008893

ANALYTICAL TECHNOLOGIES, INC. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1

Analysis Report

Analysis: RCRA METALS

Accession:	507272
Client:	HUDSCO
Project Number:	N/S
Project Name:	BECHTEL
Project Location:	NCSC/HUDSCO
Department:	METALS

✓ 008893

ANALYTICAL TECHNOLOGIES, INC. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"FINAL REPORT FORMAT - SINGLE"

Accession: 507272
Client: HUDSCO
Project Number: N/S
Project Name: BECHTEL
Project Location: NCSC/HUDSCO
Test: RCRA METALS
Matrix: SOIL
QC Level: I

Lab Id: 002
Client Sample Id: PC1401302
Sample Date/Time: 14-JUL-95 COMP
Received Date: 14-JUL-95

Parameters:	Units:	Results:	Rpt Lmts:	Q:	Batch:	Analyst:
SILVER (6010)	MG/KG	ND	1		A6S147	JRR
ARSENIC (6010)	MG/KG	ND	5		R6S147	JRR
BARIUM (6010)	MG/KG	1	1		B6S147	JRR
CADMIUM (6010)	MG/KG	ND	0.5		C6S147	JRR
CHROMIUM (6010)	MG/KG	2	1		H6S147	JRR
MERCURY (7471)	MG/KG	ND	0.1		M4S043	JP
LEAD (6010)	MG/KG	ND	5		P6S147	JRR
SELENIUM (6010)	MG/KG	ND	10		S6S147	JRR

Comments:

ANALYTICAL TECHNOLOGIES, INC. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"Method Report Summary"

Accession Number: 507272
Client: HUDSCO
Project Number: N/S
Project Name: BECHTEL
Project Location: NCSC/HUDSCO
Test: RCRA METALS

Client Sample Id:	Parameter:	Unit:	Result:
PC1401302	BARIUM (6010)	MG/KG	1
	CHROMIUM (6010)	MG/KG	2

ANALYTICAL TECHNOLOGIES, INC. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Analysis Report

Analysis: TOTAL PETROLEUM HYDROCARBONS (9073)

Accession:	507272
Client:	HUDSCO
Project Number:	N/S
Project Name:	BECHTEL
Project Location:	NCSC/HUDSCO
Department:	SEMI-VOLATILE FUELS

ANALYTICAL TECHNOLOGIES, INC. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"FINAL REPORT FORMAT - SINGLE"

Accession: 507272
Client: HUDSCO
Project Number: N/S
Project Name: BECHTEL
Project Location: NCSC/HUDSCO
Test: TOTAL PETROLEUM HYDROCARBONS (9073)
Analysis Method: 9073 / SW 846, 3rd Edition, September 1986 and Revision 1, July 1992
Extraction Method: 9073 / SW 846, 3rd Edition, September 1986 and Revision 1, July 1992
Matrix: SOIL
QC Level: I

Lab Id: 002 Sample Date/Time: 14-JUL-95 COMP
Client Sample Id: PC1401302 Received Date: 14-JUL-95

Batch: TPS229 Extraction Date: 15-JUL-95
Blank: A Dry Weight %: 100 Analysis Date: 17-JUL-95

Parameter:	Units:	Results:	Rpt Lmts:	Q:
TOTAL PETROLEUM HYDROCARBON	MG/KG	37	10	
ANALYST	INITIALS	STG		

Comments:

ANALYTICAL TECHNOLOGIES, INC. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"Method Report Summary"

Accession Number: 507272
Client: HUDSCO
Project Number: N/S
Project Name: BECHTEL
Project Location: NCSC/HUDSCO
Test: TOTAL PETROLEUM HYDROCARBONS (9073)

Client Sample Id:	Parameter:	Unit:	Result:
PC1401302	TOTAL PETROLEUM HYDROCARBON	MG/KG	37

ANALYTICAL TECHNOLOGIES, INC. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Analysis Report

Analysis: POLYNUCLEAR AROMATICS BY 8270

Accession:	507272
Client:	HUDSCO
Project Number:	N/S
Project Name:	BECHTEL
Project Location:	NCSC/HUDSCO
Department:	ORGANIC/MS

ANALYTICAL TECHNOLOGIES, INC. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"FINAL REPORT FORMAT - SINGLE"

Accession: 507272
Client: HUDSCO
Project Number: N/S
Project Name: BECHTEL
Project Location: NCSC/HUDSCO
Test: POLYNUCLEAR AROMATICS BY 8270
Analysis Method: 8270 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Extraction Method: 3550 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Matrix: SOIL
QC Level: I

Lab Id: 002
Client Sample Id: PC1401302
Sample Date/Time: 14-JUL-95 COMP
Received Date: 14-JUL-95

Batch: ALS105
Blank: B
Dry Weight %: 100
Extraction Date: 15-JUL-95
Analysis Date: 18-JUL-95

Parameter:	Units:	Results:	Rpt Lmts:	Q:
ACENAPHTHENE	UG/KG	ND	330	
ACENAPHTHYLENE	UG/KG	ND	330	
ANTHRACENE	UG/KG	ND	330	
BENZO(a)ANTHRACENE	UG/KG	ND	330	
BENZO(a)PYRENE	UG/KG	ND	330	
BENZO(b)FLUORANTHENE	UG/KG	ND	330	
BENZO(g,h,i)PERYLENE	UG/KG	ND	330	
BENZO(k)FLUORANTHENE	UG/KG	ND	330	
CHRYSENE	UG/KG	ND	330	
DIBENZO(a,h)ANTHRACENE	UG/KG	ND	330	
FLUORANTHENE	UG/KG	ND	330	
FLUORENE	UG/KG	ND	330	
INDENO(1,2,3-cd)PYRENE	UG/KG	ND	330	
NAPHTHALENE	UG/KG	ND	330	
PHENANTHRENE	UG/KG	ND	330	
PYRENE	UG/KG	ND	330	
1-METHYLNAPHTHALENE	UG/KG	ND	330	
2-METHYLNAPHTHALENE	UG/KG	ND	330	
2-FLUOROBIPHENYL	REC/SURR	70	30-115	
NITROBENZENE-D5	REC/SURR	52	23-120	
TERPHENYL-D14	REC/SURR	80	18-137	
ANALYST	INITIALS	RW		

Comments:

008893

ANALYTICAL TECHNOLOGIES, INC. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Analysis Report

Analysis: AROMATIC VOLATILES (8020)

Accession:	507272
Client:	HUDSCO
Project Number:	N/S
Project Name:	BECHTEL
Project Location:	NCSC/HUDSCO
Department:	GC/VOA

008893

ANALYTICAL TECHNOLOGIES, INC. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"FINAL REPORT FORMAT - SINGLE"

Accession: 507272
Client: HUDSCO
Project Number: N/S
Project Name: BECHTEL
Project Location: NCSC/HUDSCO
Test: AROMATIC VOLATILES (8020)
Analysis Method: 8020 / SW 846, 3rd Edition, September 1986 and Revision 1, July 1992
Extraction Method: N/A
Matrix: SOIL
QC Level: I

Lab Id: 001
Client Sample Id: PC1401301
Sample Date/Time: 14-JUL-95 COMP
Received Date: 14-JUL-95

Batch: KIS167
Blank: B
Dry Weight %: 99
Extraction Date: N/A
Analysis Date: 18-JUL-95

Parameter:	Units:	Results:	Rpt Lmts:	Q:
BENZENE	UG/KG	ND	1	
CHLOROBENZENE	UG/KG	ND	1	
1,2-DICHLOROBENZENE	UG/KG	ND	2	
1,3-DICHLOROBENZENE	UG/KG	ND	2	
1,4-DICHLOROBENZENE	UG/KG	ND	2	
ETHYLBENZENE	UG/KG	ND	1	
TOLUENE	UG/KG	ND	5	
XYLENES (TOTAL)	UG/KG	4	2	
METHYL T-BUTYL ETHER	UG/KG	ND	5	
TRIFLUOROTOLUENE (PID)	%REC/SURR	106	73-123	
ANALYST	INITIALS	DC		

Comments:

008893

ANALYTICAL TECHNOLOGIES, INC. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Quality Control Report

Analysis: RCRA METALS

Accession:	507272
Client:	HUDSCO
Project Number:	N/S
Project Name:	BECHTEL
Project Location:	NCSC/HUDSCO
Department:	METALS

008893

ANALYTICAL TECHNOLOGIES, INC. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Date 20-Jul-95

"Metals Quality Control Report"

Parameter:	SILVER	ARSENIC	BARIUM	CADMIUM	CHROMIUM	MERCURY
Batch Id:	A6S147	R6S147	B6S147	C6S147	H6S147	M4S043
Blank Result:	<1	<5	<1	<0.5	<1	<0.1
Anal. Method:	6010	6010	6010	6010	6010	7471
Prep. Method:	3050	3050	3050	3050	3050	7471
Analysis Date:	19-JUL-95	19-JUL-95	19-JUL-95	19-JUL-95	19-JUL-95	18-JUL-95
Prep. Date:	19-JUL-95	19-JUL-95	19-JUL-95	19-JUL-95	19-JUL-95	18-JUL-95
Sample Duplication						
Sample Dup:	507299-7	507299-7	507299-7	507299-7	507299-7	507081-3
Rept Limit:	<1	<5	<1	<0.5	<1	<0.1
Sample Result:	200	210	310	200	240	2.5
Dup Result:	200	210	330	200	250	2.6
Sample RPD:	0	0	6	0	4	4
Max RPD:	20	20	20	20	20	20
Dry Weight%	N/A	N/A	N/A	N/A	N/A	N/A
Matrix Spike						
Sample Spiked:	507299-7	507299-7	507299-7	507299-7	507299-7	507081-3
Rept Limit:	<1	<5	<1	<0.5	<1	<0.1
Sample Result:	<1	5	73	<0.5	24	<0.1
Spiked Result:	200	210	310	200	240	2.5
Spike Added:	200	200	200	200	200	2.5
% Recovery:	100	103	119	100	108	100
% Rec Limits:	75-125	75-125	75-125	75-125	75-125	75-125
Dry Weight%	N/A	N/A	N/A	N/A	N/A	N/A
ICV						
ICV Result:	4.8	5.0	5.0	4.8	5.0	0.0044
True Result:	5.0	5.0	5.0	5.0	5.0	0.0040
% Recovery:	96	100	100	96	100	110
% Rec Limits:	90-110	90-110	90-110	90-110	90-110	80-120
LCS						
LCS Result:	100	79	250	100	68	22.1
True Result:	85	65.1	238	81.5	57.4	23.7
% Recovery:	118	121	105	123	118	93
% Rec Limits:	40-147	49-149	58-131	50-140	59-140	42-155

ANALYTICAL TECHNOLOGIES, INC 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"Metals Quality Control Report"

Parameter:	LEAD	SELENIUM
Batch Id:	P6S147	S6S147
Blank Result:	<5	<10
Anal. Method:	6010	6010
Prep. Method:	3050	3050
Analysis Date:	19-JUL-95	19-JUL-95
Prep. Date:	19-JUL-95	19-JUL-95

Sample Duplication

Sample Dup:	507299-7	507299-7
Rept Limit:	<5	<10
Sample Result:	220	220
Dup Result:	220	230
Sample RPD:	0	4
Max RPD:	20	20
Dry Weight%	N/A	N/A

Matrix Spike

Sample Spiked:	507299-7	507299-7
Rept Limit:	<5	<10
Sample Result:	11	<10
Spiked Result:	220	220
Spike Added:	200	200
% Recovery:	105	110
% Rec Limits:	75-125	75-125
Dry Weight%	N/A	N/A

ICV

ICV Result:	4.9	4.9
True Result:	5.0	5.0
% Recovery:	98	98
% Rec Limits:	90-110	90-110

LCS

LCS Result:	150	52
True Result:	128	47.6
% Recovery:	117	109
% Rec Limits:	54-140	51-146

"Quality Control Comments"

Batch Id:	Comments:
A6S147	ANALYST: JRR
A6S147	The results reported under "Sample Duplication" are the MS/MSD.
R6S147	ANALYST: JRR
R6S147	The results reported under "Sample Duplication" are the MS/MSD.
B6S147	ANALYST: JRR
B6S147	The results reported under "Sample Duplication" are the MS/MSD.
C6S147	ANALYST: JRR
C6S147	The results reported under "Sample Duplication" are the MS/MSD.
H6S147	ANALYST: JRR
H6S147	The results reported under "Sample Duplication" are the MS/MSD.
M4S043	ANALYST: JP
M4S043	The results reported under "Sample Duplication" are the MS/MSD.
P6S147	ANALYST: JRR
P6S147	The results reported under "Sample Duplication" are the MS/MSD.
S6S147	ANALYST: JRR
S6S147	The results reported under "Sample Duplication" are the MS/MSD.

----- Common Footnotes Metals -----

N/A = NOT APPLICABLE.
N/S = NOT SUBMITTED.
N/C = SAMPLE AND DUPLICATE RESULTS ARE AT OR BELOW ATI REPORTING LIMIT; THEREFORE, THE RPD IS "NOT CALCULABLE" AND NO CONTROL LIMITS APPLY.
N/D = NOT DETECTED.
DISS. OR D = DISSOLVED
T & D = TOTAL AND DISSOLVED
R = REACTIVE
T = TOTAL
G = SAMPLE AND/OR DUPLICATE RESULT IS BELOW 5 X ATI REPORTING LIMIT AND THE ABSOLUTE DIFFERENCE BETWEEN THE SAMPLE AND DUPLICATE RESULT IS AT OR BELOW ATI REPORTING LIMIT; THEREFORE, THE RESULTS ARE "IN CONTROL".
Q = THE ANALYTICAL (POST-DIGESTION) SPIKE IS REPORTED DUE TO PERCENT RECOVERY BEING OUTSIDE ACCEPTANCE LIMITS ON THE MATRIX (PRE-DIGESTION) SPIKE.
# = ELEVATED REPORTING LIMIT DUE TO INSUFFICIENT SAMPLE.
+ = ELEVATED REPORTING LIMIT DUE TO DILUTION INTO CALIBRATION RANGE.
* = ELEVATED REPORTING LIMIT DUE TO MATRIX INTERFERENCE. (DILUTION PRIOR TO ANALYSIS)
@ = ADJUSTED REPORTING LIMIT DUE TO SAMPLE MATRIX. (DILUTION PRIOR TO DIGESTION)
P = ANALYTICAL (POST DIGESTION) SPIKE.
I = DUPLICATE INJECTION.
& = AUTOMATED
F = SAMPLE SPIKED > 4 X SPIKE CONCENTRATION.
N/C+ = NOT CALCULABLE
N/C* = NOT CALCULABLE; SAMPLE SPIKED > 4 X SPIKE CONCENTRATION.
H = SAMPLE AND/OR DUPLICATE RESULT IS BELOW 5 X ATI REPORTING LIMIT AND THE ABSOLUTE DIFFERENCE BETWEEN THE RESULTS EXCEEDS THE ATI REPORTING LIMIT; THEREFORE, THE RESULTS ARE "OUT OF CONTROL".
A = SAMPLE AND DUPLICATE RESULTS ARE "OUT OF CONTROL".
Z = THE SAMPLE RESULT FOR THE SPIKE IS BELOW THE REPORTING LIMIT. HOWEVER, THIS RESULT IS REPORTED FOR ACCURATE QC CALCULATIONS.
NH= SAMPLE AND / OR DUPLICATE RESULT IS BELOW 5 X ATI REPORTING LIMIT AND THE ABSOLUTE DIFFERENCE BETWEEN THE RESULTS EXCEEDS THE ATI REPORTING LIMIT; THEREFORE, THE RESULTS ARE "OUT OF CONTROL". SAMPLE IS NON-HOMOGENEOUS.
J = (FLORIDA DEP 'J' FLAG) - MATRIX SPIKE AND POST SPIKE RECOVERY IS OUT OF THE ACCEPTABLE RANGE. SEE OUT OF CONTROL EVENTS FORM.
S = METHOD OF STANDARD ADDITIONS (MSA) WAS PERFORMED ON THIS SAMPLE.

FROM ANALYSIS REPORT:
RL= REPORTING LIMIT BASED ON METHOD DETECTION LIMIT STUDIES.
Q= QUALIFIER (FOOTNOTE)

FROM QUALITY CONTROL REPORT:
RPD= RELATIVE PERCENT DEVIATION.
RPT LIMIT= REPORTING LIMIT BASED ON METHOD DETECTION LIMIT STUDIES.

NOTE: THE UNITS REPORTED ON THE QUALITY CONTROL REPORT ARE REPORTED ON AN AS RUN BASIS.

SW-846, 3rd Edition, September 1986 and Revision 1, July 1992.
EPA 600/4-79-020, Revised March 1983.
NIOSH Manual of Analytical Methods, 3rd Edition.

P = JAY PEREZ
JJ = GARY JACOBS
JLH = JAMES L. HERED
JRR = JOHN R. ROWE
JR = JOHN REED

ANALYTICAL TECHNOLOGIES, INC. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Quality Control Report

Analysis: TOTAL PETROLEUM HYDROCARBONS (9073)

Accession:	507272
Client:	HUDSCO
Project Number:	N/S
Project Name:	BECHTEL
Project Location:	NCSC/HUDSCO
Department:	SEMI-VOLATILE FUELS

ANALYTICAL TECHNOLOGIES, INC. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Date 18-Jul-95

"QC Report"

Title: Soil Blank
Batch: TPS229
Analysis Method: 9073 / SW 846, 3rd Edition, September 1986 and Revision 1, July 1992
Extraction Method: 9073 / SW 846, 3rd Edition, September 1986 and Revision 1, July 1992

Blank Id: A Date Analyzed: 14-JUL-95 Date Extracted: 14-JUL-95

Parameters:	Units:	Results:	Reporting Limits:
TOTAL PETROLEUM HYDROCARBON	MG/KG	ND	10
ANALYST	INITIALS	SJF	

Comments:

ANALYTICAL TECHNOLOGIES, INC. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Date 18-Jul-95

"QC Report"

Title: Soil Reagent
Batch: TPS229
Analysis Method: 9073 / SW 846, 3rd Edition, September 1986 and Revision 1, July 1992
Extraction Method: 9073 / SW 846, 3rd Edition, September 1986 and Revision 1, July 1992

RS Date Analyzed: 14-JUL-95
RSD Date Analyzed: 14-JUL-95

RS Date Extracted: 14-JUL-95
RSD Date Extracted: 14-JUL-95

Parameters:	Spike Added	Sample Conc	RS Conc	RS %Rec	RSD Conc	RSD %Rec	RPD	RPD Lmts	Rec Lmts
PETROLEUM HYDROCARBON	285	<10	322	113	323	113	0	30	59-144

Surrogates:

Comments:

Notes:
N/S = NOT SUBMITTED N/A = NOT APPLICABLE D = DILUTED OUT
MG/KG = PARTS PER MILLION. < = LESS THAN REPORTING LIMIT.
* = VALUES OUTSIDE OF QUALITY CONTROL LIMITS.
SOURCES FOR CONTROL LIMITS ARE INTERNAL LABORATORY QUALITY ASSURANCE PROGRAM AND REFERENCED METHOD.

ANALYTICAL TECHNOLOGIES, INC. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Common notation for Organic reporting

N/S = NOT SUBMITTED
N/A = NOT APPLICABLE
D = DILUTED OUT
UG = MICROGRAMS
UG/L = PARTS PER BILLION.
UG/KG = PARTS PER BILLION.
MG/M3 = MILLIGRAM PER CUBIC METER.
PPMV = PART PER MILLION BY VOLUME.
MG/KG = PARTS PER MILLION.
MG/L = PARTS PER MILLION.
< = LESS THAN DETECTION LIMIT.
* = VALUES OUTSIDE OF QUALITY CONTROL LIMITS

SOURCES FOR CONTROL LIMITS ARE INTERNAL LABORATORY QUALITY ASSURANCE PROGRAM AND REFERENCED METHOD.

ORGANIC SOILS ARE REPORTED ON A DRYWEIGHT BASIS.

ND = NOT DETECTED ABOVE REPORTING LIMIT.

RPT LIMIT = REPORTING LIMITS BASED ON METHOD DETECTION LIMIT STUDIES.

RPD = RELATIVE PERCENT DIFFERENCE (OR DEVIATION)

ATI/GC/FID
ATI GAS CHROMATOGRAPHIC METHOD EMPLOYING DIRECT INJECTION ON COLUMN WITH FLAME IONIZATION DETECTOR (FID).

ATI/GC/FIX
ATI GAS CHROMATOGRAPHIC METHOD FOR ANALYSIS OF FIXED GASES EMPLOYING DIRECT INJECTION ON COLUMN WITH THERMAL CONDUCTIVITY DETECTOR (TCD) AND FLAME IONIZATION DETECTOR (FID).

ATI/GC/FPD
ATI GAS CHROMATOGRAPHIC METHOD EMPLOYING DIRECT INJECTION ON COLUMN WITH FLAME PHOTOMETRIC DETECTOR (FPD) IN SULFUR-SPECIFIC MODE.

ATI/GC/PID
ATI GAS CHROMATOGRAPHIC METHOD EMPLOYING DIRECT INJECTION ON COLUMN WITH PHOTOIONIZATION DETECTOR (PID).

ATI/GC/TCD
ATI GAS CHROMATOGRAPHIC METHOD EMPLOYING DIRECT INJECTION ON COLUMN WITH THERMAL CONDUCTIVITY DETECTOR (TCD).

LJT = LISA THOMASON
KW = KAREN WADSWORTH
SW = STEVE WILHITE
SJF = STEVE FILOROMO
PL = PAUL LESCHENSKY
RW = ROBERT WOLFE
BV = BEN VAUGHN
KS = KENDALL SMITH
KK = KERRY KUST
STG = SCOTT T. GRESHAM

008893

ANALYTICAL TECHNOLOGIES, INC. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Quality Control Report

Analysis: POLYNUCLEAR AROMATICS BY 8270

Accession:	507272
Client:	HUDSCO
Project Number:	N/S
Project Name:	BECHTEL
Project Location:	NCSC/HUDSCO
Department:	ORGANIC/MS

008893

ANALYTICAL TECHNOLOGIES, INC. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"QC Report"

Title: Soil Blank
Batch: ALS105
Analysis Method: 8270 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Extraction Method: 3550 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.

Blank Id: B Date Analyzed: 18-JUL-95 Date Extracted: 15-JUL-95

Parameters:	Units:	Results:	Reporting Limits:
P-CHLORO-M-CRESOL	UG/KG	ND	10
2-CHLOROPHENOL	UG/KG	ND	10
O-CRESOL	UG/KG	ND	10
M,P CRESOL	UG/KG	ND	10
2,4-DICHLOROPHENOL	UG/KG	ND	10
2,6-DICHLOROPHENOL	UG/KG	ND	10
2,4-DIMETHYLPHENOL	UG/KG	ND	10
4,6-DINITRO-O-CRESOL	UG/KG	ND	50
2,4-DINITROPHENOL	UG/KG	ND	10
2-NITROPHENOL	UG/KG	ND	10
4-NITROPHENOL	UG/KG	ND	50
PENTACHLOROPHENOL	UG/KG	ND	50
PHENOL	UG/KG	ND	10
2,3,4,6-TETRACHLOROPHENOL	UG/KG	ND	10
2,4,5-TRICHLOROPHENOL	UG/KG	ND	50
2,4,6-TRICHLOROPHENOL	UG/KG	ND	10
ACENAPHTHENE	UG/KG	ND	10
ACENAPHTHYLENE	UG/KG	ND	10
ACETOPHENONE	UG/KG	ND	10
2-ACETYLAMINOFLUORENE	UG/KG	ND	10
4-AMINOBIPHENYL	UG/KG	ND	10
ANILINE	UG/KG	ND	10
ANTHRACENE	UG/KG	ND	10
ARAMITE	UG/KG	ND	10
BENZO (A) ANTHRACENE	UG/KG	ND	10
BENZO (A) PYRENE	UG/KG	ND	10
BENZO (B) FLUORANTHENE	UG/KG	ND	10
BENZO (G,H,I) PERYLENE	UG/KG	ND	10
BENZO (K) FLUORANTHENE	UG/KG	ND	10
BENZYL ALCOHOL	UG/KG	ND	10
BIS(2-CHLORO-1-METHYLETHYL)ETHER	UG/KG	ND	10
BIS(2-CHLOROETHOXY)METHANE	UG/KG	ND	10
BIS(2-CHLOROETHYL)ETHER	UG/KG	ND	10
BIS(2-ETHYLHEXYL)PHTHALATE	UG/KG	ND	10
4-BROMOPHENYL PHENYL ETHER	UG/KG	ND	10
BUTYLBENZYL PHTHALATE	UG/KG	ND	10
P-CHLOROANILINE	UG/KG	ND	10
CHLOROBENZILATE	UG/KG	ND	10
2-CHLORONAPHTHALENE	UG/KG	ND	10
4-CHLOROPHENYL PHENYL ETHER	UG/KG	ND	10
CHRYSENE	UG/KG	ND	10
DIALLATE	UG/KG	ND	10
DIBENZO (A,H) ANTHRACENE	UG/KG	ND	10
DIBENZOFURAN	UG/KG	ND	10
1,2-DICHLOROBENZENE	UG/KG	ND	10
1,3-DICHLOROBENZENE	UG/KG	ND	10

008893

ANALYTICAL TECHNOLOGIES, INC. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"QC Report"

Title: Soil Blank
Batch: ALS105
Analysis Method: 8270 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Extraction Method: 3550 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.

Parameters:	Units:	Results:	Reporting Limits:
1,4-DICHLOROBENZENE	UG/KG	ND	10
3,3'-DICHLOROBENZIDINE	UG/KG	ND	50
DIETHYLPHTHALATE	UG/KG	ND	10
DIMETHOATE	UG/KG	ND	10
P-DIMETHYLAMINOAZOBENZENE	UG/KG	ND	10
7,12-DIMETHYLBENZ(A)ANTHRACENE	UG/KG	ND	10
3,3'-DIMETHYLBENZIDINE	UG/KG	ND	10
A,A-DIMETHYLPHENETHYLAMINE	UG/KG	ND	10
DIMETHYLPHTHALATE	UG/KG	ND	10
DI-N-BUTYLPHTHALATE	UG/KG	ND	10
M-DINITROBENZENE	UG/KG	ND	10
2,4-DINITROTOLUENE	UG/KG	ND	10
2,6-DINITROTOLUENE	UG/KG	ND	10
DI-N-OCTYLPHTHALATE	UG/KG	ND	10
DIPHENYLAMINE	UG/KG	ND	10
ETHYL METHANESULFONATE	UG/KG	ND	10
FAMPHUR	UG/KG	ND	10
FLUORANTHENE	UG/KG	ND	10
FLUORENE	UG/KG	ND	10
HEXACHLOROBENZENE	UG/KG	ND	10
HEXACHLOROBUTADIENE	UG/KG	ND	10
HEXACHLOROCYCLOPENTADIENE	UG/KG	ND	10
HEXACHLOROETHANE	UG/KG	ND	10
HEXACHLOROPHENE	UG/KG	ND	10
HEXACHLOROPROPENE	UG/KG	ND	10
INDENO (1,2,3-CD) PYRENE	UG/KG	ND	10
ISODRIN	UG/KG	ND	10
ISOPHORONE	UG/KG	ND	10
ISOSAFROLE	UG/KG	ND	10
KEPONE	UG/KG	ND	10
METHAPYRILENE	UG/KG	ND	10
3-METHYLCHOLANTHRENE	UG/KG	ND	10
METHYL METHANESULFONATE	UG/KG	ND	10
1-METHYLNAPHTHALENE	UG/KG	ND	10
2-METHYLNAPHTHALENE	UG/KG	ND	10
NAPHTHALENE	UG/KG	ND	10
1,4-NAPHTHOQUINONE	UG/KG	ND	10
1-NAPHTHYLAMINE	UG/KG	ND	10
2-NAPHTHYLAMINE	UG/KG	ND	10
2-NITROANILINE	UG/KG	ND	50
3-NITROANILINE	UG/KG	ND	50
4-NITROANILINE	UG/KG	ND	50
NITROBENZENE	UG/KG	ND	10
5-NITRO-O-TOLUIDINE	UG/KG	ND	10
4-NITROQUINOLINE-1-OXIDE	UG/KG	ND	10
N-NITROSODIETHYLAMINE	UG/KG	ND	10
N-NITROSODIMETHYLAMINE	UG/KG	ND	10

ANALYTICAL TECHNOLOGIES, INC. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"QC Report"

Title: Soil Blank
Batch: ALS105
Analysis Method: 8270 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Extraction Method: 3550 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.

Parameters:	Units:	Results:	Reporting Limits:
N-NITROSODI-N-BUTYLAMINE	UG/KG	ND	10
N-NITROSODIPHENYLAMINE	UG/KG	ND	10
N-NITROSOMETHYLETHYLAMINE	UG/KG	ND	10
N-NITROSOMORPHOLINE	UG/KG	ND	10
N-NITROSOPIPERIDINE	UG/KG	ND	10
N-NITROSOPYRROLIDINE	UG/KG	ND	10
PARATHION	UG/KG	ND	10
PENTACHLOROBENZENE	UG/KG	ND	10
PENTACHLOROETHANE	UG/KG	ND	10
PENTACHLORONITROBENZENE	UG/KG	ND	10
PHENACETIN	UG/KG	ND	10
PHENANTHRENE	UG/KG	ND	10
2-PICOLINE	UG/KG	ND	10
P-PHENYLENEDIAMINE	UG/KG	ND	10
PRONAMIDE	UG/KG	ND	10
PYRENE	UG/KG	ND	10
PYRIDINE	UG/KG	ND	10
SAFROLE	UG/KG	ND	10
SULFOTEPP	UG/KG	ND	10
,2,4,5-TETRACHLOROBENZENE	UG/KG	ND	10
THIONAZIN	UG/KG	ND	10
O-TOLUIDINE	UG/KG	ND	10
1,2,4 TRICHLOROBENZENE	UG/KG	ND	10
SYM-TRINITROBENZENE	UG/KG	ND	10
O,O,O-TRIETHYL PHOSPHOROTHIATE	UG/KG	ND	10
BENZIDINE	UG/KG	ND	10
BIS(2-CHLOROISOPROPYL)ETHER	UG/KG	ND	10
2-(SEC BUTYL)4,6-DINITRO-PHENOL(DINOSEB)	UG/KG	ND	10
N-NITROSO-DI-N-PROPYLAMINE	UG/KG	ND	10
2-FLUOROBIPHENYL	%REC/SURR	59	30-115
TERPHENYL-D14	%REC/SURR	101	18-137
NITROBENZENE-D5	%REC/SURR	53	23-120
2-FLUOROPHENOL	%REC/SURR	67	25-121
PHENOL-D6	%REC/SURR	63	24-113
2,4,6-TRIBROMOPHENOL	%REC/SURR	70	19-122
ANALYST	INITIALS	RW	

Comments:

ANALYTICAL TECHNOLOGIES, INC. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"QC Report"

Title: Soil Reagent
Batch: ALS105
Analysis Method: 8270 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Extraction Method: 3550 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.

RS Date Analyzed: 17-JUL-95
RSD Date Analyzed: 17-JUL-95

RS Date Extracted: 14-JUL-95
RSD Date Extracted: 14-JUL-95

Parameters:	Spike Added	Sample Conc	RS Conc	RS %Rec	RSD Conc	RSD %Rec	RPD	RPD Lmts	Rec Lmts
PHENOL	3333	<330	2633	79	2500	75	5	27	5-112
2-CHLOROPHENOL	3333	<330	2467	74	2400	72	3	32	38-123
1,4-DICHLOROBENZENE	1667	<330	1367	82	1233	74	10	25	50-111
N-NITRO-DI-N-PROPYLAMINE	1667	<330	1267	76	1233	74	3	25	39-121
1,2,4 TRICHLOROBENZENE	1667	<330	1333	80	1267	76	5	24	49-115
4-CHLORO-3-METHYLPHENOL	3333	<330	2600	78	2600	78	0	26	37-128
ACENAPHTHENE	1667	<330	1433	86	1300	78	10	19	53-115
4-NITROPHENOL	3333	<1700	2700	81	2633	79	3	50	32-126
2,4-DINITROTOLUENE	1667	<330	1433	86	1333	80	7	21	56-118
PENTACHLOROPHENOL	3333	<1700	2500	75	2400	72	4	20	31-146
PYRENE	1667	<330	1333	80	1367	82	2	23	52-115
Surrogates:									
NITROBENZENE-D5				82		79			23-120
2-FLUOROBIPHENYL				91		82			30-115
TERPHENYL-D14				82		81			18-137
PHENOL-D6				94		89			24-113
2-FLUOROPHENOL				90		83			25-121
2,4,6-TRIBROMOPHENOL				94		85			19-122

Comments:

Notes:
N/S = NOT SUBMITTED N/A = NOT APPLICABLE D = DILUTED OUT
UG/KG = PARTS PER BILLION. < = LESS THAN REPORTING LIMIT.
* = VALUES OUTSIDE OF QUALITY CONTROL LIMITS.
SOURCES FOR CONTROL LIMITS ARE INTERNAL LABORATORY QUALITY ASSURANCE PROGRAM AND REFERENCED METHOD.

Common notation for Organic reporting

N/S = NOT SUBMITTED
N/A = NOT APPLICABLE
D = DILUTED OUT
UG/L = PARTS PER BILLION.
UG/KG = PARTS PER BILLION.
MG/KG = PARTS PER MILLION.
MG/L = PARTS PER MILLION.
MG/M3 = MILLIGRAMS PER CUBIC METER.
NG = NANOGRAMS.
UG = MICROGRAMS.
PPBV = PARTS PER BILLION/VOLUME.
< = LESS THAN DETECTION LIMIT.
* = VALUES OUTSIDE OF QUALITY CONTROL LIMITS
J = THE REPORTED VALUE IS EITHER LESS THAN THE REPORTING LIMIT BUT GREATER THAN ZERO, OR QUANTITATED AS A TIC; THEREFORE, IT IS ESTIMATED.
JJ = REPORTED VALUE IS ESTIMATED DUE TO MATRIX INTERFERENCE.
ND = NOT DETECTED ABOVE REPORT LIMIT.
RPT LIMIT = REPORTING LIMITS BASED ON METHOD DETECTION LIMIT STUDIES.
RPD = RELATIVE PERCENT DIFFERENCE (OR DEVIATION)

SOURCES FOR CONTROL LIMITS ARE INTERNAL LABORATORY QUALITY ASSURANCE PROGRAM AND REFERENCED METHOD.

ORGANIC SOILS ARE REPORTED ON A DRY WEIGHT BASIS.

DUE TO THE NATURE OF THE SAMPLE MATRIX, MATRIX SPIKE/MATRIX SPIKE DUPLICATE ANALYSIS CANNOT BE PERFORMED FOR AIR ANALYSIS.

LP = LEVERNE PETERSON
DWB = DAVID BOWERS
DB = DENNIS BESON
LL = LANCE LARSON
JA = JENNIFER ALEXANDER
RW = RITA WINGO
LD = LARRY DILMORE
DC = DAVID CELESTIAL
RB = RAFAEL BARRAZA

008893

ANALYTICAL TECHNOLOGIES, INC. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Quality Control Report

Analysis: AROMATIC VOLATILES (8020)

Accession:	507272
Client:	HUDSCO
Project Number:	N/S
Project Name:	BECHTEL
Project Location:	NCSC/HUDSCO
Department:	GC/VOA

008893

AnalyticalTechnologies,Inc.
11 East Olive Road • Pensacola, Florida 32514 • (904) 474-1001

CHAIN OF CUSTODY

PART 1 - Bottle Shipment Information

ATI ACCESSION #: 507272

CLIENT:	CLIENT PROJECT NUMBER:

QUANTITY OF SAMPLE CONTAINERS SHIPPED	PRESERVATIVE							PLASTIC CONTAINERS							GLASS CONTAINERS									NOTES
	H_2SO_4	HNO3	HCL	Zn Acetate	$Na_2S_2O_3$	Unpreserved	NaOH	8 oz.	16 oz.	32 oz.	½ gallon	1 gallon	Whirl-pak	100-ML Cup	120 ml (A)	1 liter (A)	1 liter (C)	40 ml Vial	4 oz. wm	8 oz. wm	16 oz. wm	32 oz. wm	D.I. Trip Blank	

Relinquished By:	Time	Date	Received By:	Time	Date

PART 2 - Sample/Project Information

SAMPLE MATRIX CODES

DW	DRINKING WATER	AI	AIR	SW	SURFACE WATER
WW	WASTEWATER	SO	SOIL	SL	SLUDGE
GW	GROUNDWATER	OI	OIL	ST	STORMWATER

PARAMETERS AND PRESERVATIVES REQUESTED

SAMPLE I.D.	SAMPLE DATE	SAMPLE TIME	MATRIX	8020	8270	8073	TOX/TOC/Zn/Cl/Kar											TOTAL # OF BOTTLES
PC1401301	7/14/15	Comp	Soil	X														1
PC1401302	7/14/15	Comp	Soil		X	X	X											1

Total Number of Bottles/Containers: 2

Relinquished By	Date	Time	Received By	Date	Time
[illegible]	7/14/15	1500	[illegible]	7/14/15	1500

Client HUDSCO			Purchase Order Number NA
Address 5810 Paul Stewart Rd			Project Number NA
City Pensacola	State FL	Zip 32514	Project Name Rickell
Phone Number ( ) 477-2098	Fax Number ( ) 477-7011		Project Location NASC HUDSCO
Project Manager [illegible]			Sampled By [illegible]

TURNAROUND TIMES	check below	SPECIAL INSTRUCTIONS
ard - 14-21 days		Economic Walk
RUSH (must be approved in advance)		
<- 48 hours - 2x standard price	X	
3-7 days - 1.5x standard price		
TCLP - 1 week rush 1.5x standard price		

QC Level none I II III IV (circle one) Copies of report needed _____

008893

DATA ASSESSMENT SUMMARY

PROJECT: Navy RAC Panama City
DATE: 9/12/95
REVIEWER: L. J. Keller
LABORATORY: Analytical Technologies
SUPPLIER DOCUMENT NO. VA
SAMPLE ID's: PC 1401301, PC 1401302

DATE OF SAMPLE COLLECTION: 7-14-95

I. VOLATILE ORGANICS BY GC/MS

1. Were samples analyzed within technical holding times?

____ Yes ____ No

Comments: _____

2. Were all surrogate recoveries compliant?

____ Yes ____ No

Comments: _____

3. Were internal standards compliant?

____ Yes ____ No

Comments: _____

4. Were target compounds detected in the method blank(s)?

____ Yes ____ No

Comments: _____

5. Were compounds detected in the method blank also detected in the associated samples at levels less than 5 times the blank concentration (for non-common lab contaminants) or less than 10 times the blank concentration (for common lab contaminants)?

____ Yes ____ No

Comments: _____

6. Were matrix spike recoveries and RPD's within the recommended quality control limits?

____ Yes ____ No

Comments: _____

7. Were LCS recoveries within the recommended recovery windows?

____ Yes ____ No ____ N/A

Comments: _____

Additional Comments: _____

II. ORGANICS BY GC

Analytes Evaluated: 8020

1. Were samples analyzed within technical holding times?

✓ Yes ____ No ____ N/A

Comments: _____

2. Were all surrogate recoveries compliant?

✓ Yes ___ No ___ N/A

Comments: _____

3. Were internal standards compliant?

___ Yes ___ No ✓ N/A

Comments: This information was not supplied.

4. Were target compounds detected in the method blank(s)?

___ Yes ___ No ✓ NA

Comments: No blanks was reported for BTEX

5. Were compounds detected in the method blank also detected in the associated samples at levels less than 5 times the blank concentration (for non-common lab contaminants) or less than 10 times the blank concentration (for common lab contaminants)?

___ Yes ✓ No

Comments: _____

6. Were matrix spike recoveries and RPD's within the recommended quality control limits?

___ Yes ___ No ✓ NA

Comments: No MS/MSD was reported

7. Were LCS recoveries within the recommended recovery windows?

___ Yes ___ No ✓ N/A

Comments: No LCS was reported

Additional Comments: No blank analysis or quality control was submitted for this analysis.

III. SEMIVOLATILES BY GC/MS (PAH)

1. Were samples extracted and/or analyzed within technical holding times?

✓ Yes ___ No

Comments: Extracted 7-15-95 Analyzed 7-18-95

2. Were all surrogate recoveries compliant?

✓ Yes ___ No

Comments:

3. Were internal standards compliant?

___ Yes ___ No ✓ NA

Comments: Internal Standard areas and retention time were not reported.

4. Were target compounds detected in the method blank(s)?

____ Yes ✓ No

Comments: _____

5. Were compounds detected in the method blank also detected in the associated samples at levels less than 5 times the blank concentration (for non-common lab contaminants) or less than 10 times the blank concentration (for common lab contaminants)?

____ Yes ✓ No

Comments: _____

6. Were matrix spike recoveries and RPD's within the recommended quality control limits?

____ Yes ____ No ✓ NA

Comments: _____

7. Were LCS recoveries within the recommended recovery windows?

✓ Yes ____ No ____ N/A

Comments: A reagent spike and reagent spike duplicate were performed. RPD's were acceptable.

Additional Comments: _____

IV. PEST/PCB'S BY GC

1. Were samples extracted and/or analyzed within technical holding times?

____ Yes ____ No

Comments: _____

2. Were all surrogate recoveries compliant?

____ Yes ____ No

Comments: _____

3. Were target compounds detected in the method blank(s)?

____ Yes ____ No

Comments: _____

4. Were compounds detected in the method blank also detected in the associated samples at levels less than 5 times the blank concentration?

____ Yes ____ No

Comments: _____

5. Were matrix spike recoveries and RPD's within the recommended quality control limits?

____ Yes ____ No

Comments: _____

6. Were LCS recoveries within the recommended recovery windows?

____ Yes ____ No ____ N/A

Comments: _____

Additional Comments: _____

V. METALS AND MERCURY TCLP Metals

1. Were samples prepared and/or analyzed within technical holding times?

____ Yes ____ No ✓ NA

Comments: No prep and analysis date was given for the samples. The TCLP blank was prepared on 7-19-95 and analyzed on 7-19-95.

2. Were target compounds detected in the method blank(s) at levels greater than the IDL?

____ Yes ✓ No

Comments: _____

3. Were compounds detected in the method blank also detected in the associated samples at levels less than 5 times the blank concentration?

____ Yes ✓ No

Comments: _____

4. Were matrix spike recoveries and duplicate RPD's within the recommended quality control limits?

✓ Yes ____ No

Comments: _____

5. Were LCS recoveries within the recommended recovery windows?

✓ Yes ____ No

Comments: _____

Additional Comments: _____

VI. CYANIDE AND MISCELLANEOUS WET CHEMISTRY ANALYSES

Analyses Evaluated:
TPH (9073)

1. Were samples prepared and/or analyzed within technical holding times?

✓ Yes ____ No

Comments: Prep 7-15 Analysis 7-17

2. Were all surrogate recoveries compliant?

____ Yes ____ No ✓ NA

Comments: _____

3. Were target compounds detected in the method blank(s)?

___ Yes ✓ No

Comments: The blank was prepped on 7-14-95 and analyzed on 7-14-95. The sample was prepped on 7-25-95.

4. Were compounds detected in the method blank also detected in the associated samples(s) at a concentration less than 5 times the blank concentration?

___ Yes ✓ No

Comments: _____

5. Were matrix spike recoveries and RPD's within the recommended quality control limits?

✓ ~~N/A~~ Yes ___ No ___ N/A

Comments: As RS and RSD were analyzed for TPH. It is unclear whether this is a sample or blank soil. The sample [ ] does not match the reported sample in this package. Called lab - RS + RSD are reagent spike and reagent spike duplicate.

6. Were duplicate RPD's within the recommended quality control limits?

___ Yes ___ No ✓ NA

Comments: _____

7. Were LCS recoveries within the recommended recovery limits?

___ Yes ___ No ✓ N/A

Comments: _____

Additional Comments: Samples do not appear to have been corrected for moisture (100% Dry Weight). Lab was called and I was assured by Micky Cobre @ ATI that a percent moisture analysis was performed.

VII. OVERALL DATA ASSESSMENT: From the items examined the data appears to be compliant. There are several items that could not be evaluated based on the limited deliverable.

SECTION 3

SOIL TESTING RESULTS

J & M TESTING LAB, INC.
Consulting Geotechnical & Materials Engineers
MATERIALS TESTING
Main Office — State Rd. 280 East • Chipley, Fla. 32428

BRYAN

Bechtel Task # 22567
Navy Rac. S. Div.

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22567-421-0329-0011-001-02

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J & M TESTING LAB, INC.

LABORATORY COMPACTION TEST

Bechtel Task #22567 Navy Rac, South Division

PROJECT: FPS Proj.No.I95-777

CLIENT: Florida Petroleum Services

JOB LOCATION: Panama City, Fl.

DATE TESTED: 6/21/95

SAMPLE NO.: 1

SAMPLE LOCATION: Hall Pit

MOISTURE DENSITY RELATIONSHIP

PROCTOR DESCRIPTION: Modified

TEST METHOD: ASTM D 1557

MAXIMUM DRY DENSITY: 102.1 PCF

OPT. MOISTURE CONTENT: 10.5 %

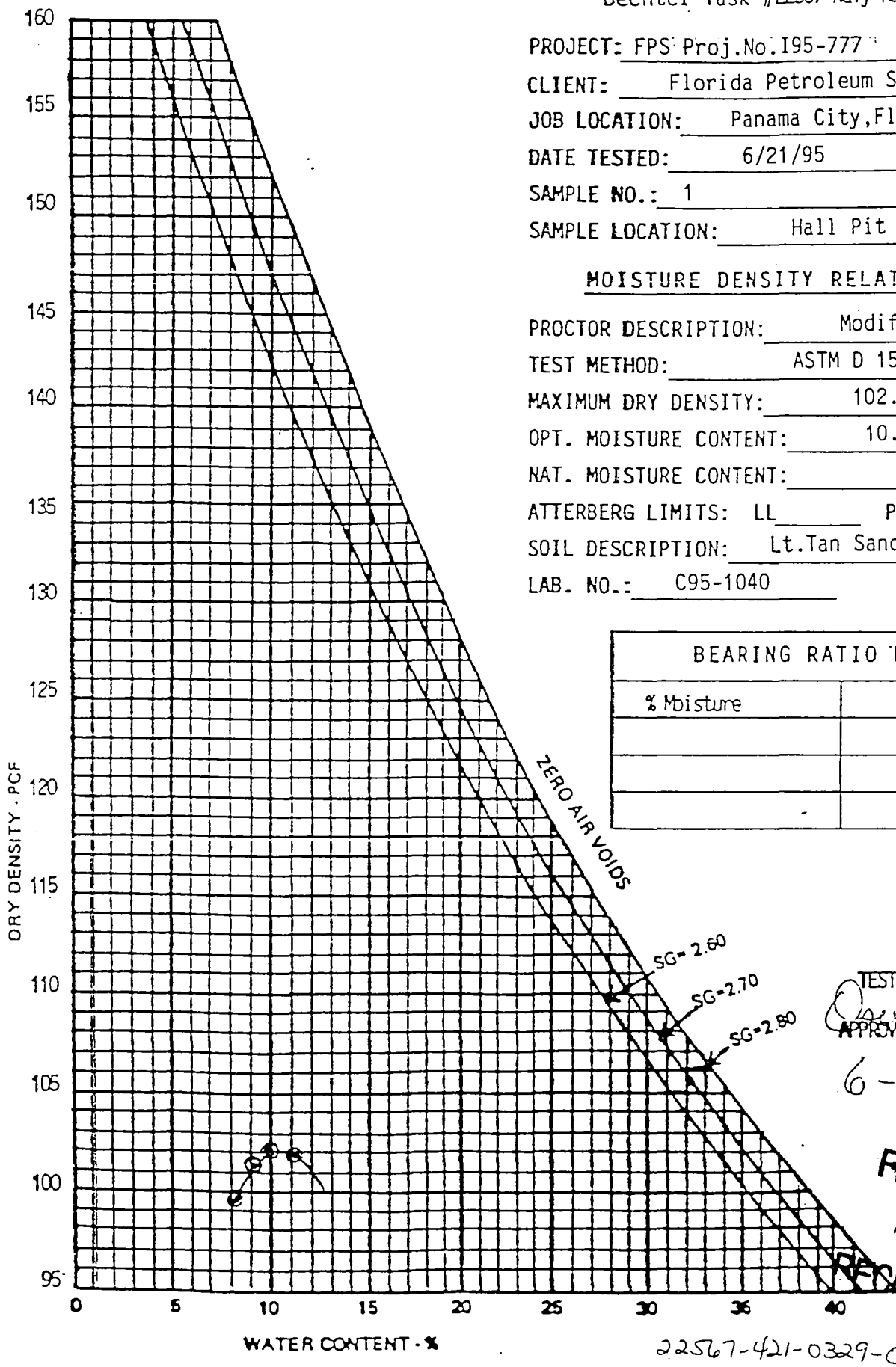
NAT. MOISTURE CONTENT: %

ATTERBERG LIMITS: LL PI

SOIL DESCRIPTION: Lt.Tan Sand

LAB. NO.: C95-1040

BEARING RATIO RESULTS	
% Moisture	Value



TESTED BY: Jorge

APPROVED BY: W. Peter

6-23-95

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AUG 14 1995
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22567-421-0329-0011-001-02

J & M TESTING LAB., INC.

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FIELD DENSITY REPORT

Contractor: Florida Petroleum Services
Type Construction: Backfill Tank Removal
Project: Bechtel Tank #22567, Navy Rac, S.Div.
Copy To: Florida Petroleum
Location: Panama City, Florida
Material: Lt. Tan Sand
Lab No.: C-95-1074
Date Tested: 6/21/95
Date Reported: 7/5/95
MAXIMUM DENSITY DETERMINED IN ACCORDANCE WITH: ASTM D 1557
METHOD: Modified
FIELD DENSITY DETERMINED IN ACCORDANCE WITH: ASTM D 2922
METHOD: Nuclear

TEST DATA

Location of Test	Test No.	Lift or Layer	Maximum Density (PCF)	Opt. Moisture %	Field Moisture %	Field Density Dry (PCF)	% Of Max.Den.	Job Spec.
Southwest Corner, 1st. Lift	1	6"	102.1	10.5	5.8	105.3	103.1	85.0
Southeast Corner, 1st. Lift	2	"	"	"	4.1	104.1	102.0	85.0
Northeast Corner, 1st. Lift	3	"	"	"	4.8	106.3	104.1	85.0
Northwest Corner, 1st. Lift	4	"	"	"	5.0	104.3	102.2	85.0
Northeast Corner, 2nd. Lift	5	"	"	"	5.8	105.3	103.2	85.0
Southwest Corner, 2nd. Lift	6	"	"	"	5.9	103.0	100.9	85.0
Southeast Corner, 3rd. Lift	7	"	"	"	6.3	103.4	101.2	85.0
Southwest Corner, 3rd. Lift	8	"	"	"	6.8	102.2	100.1	85.0

NOTE : * IN-PLACE DENSITY DOES NOT MEET REQUIREMENTS, ** RETEST DENSITY MEETS OR EXCEEDS REQUIREMENTS

Respectfully submitted,

J & M TESTING LAB., INC.

TESTED BY: Bryan Conroy

APPROVED BY: [signature] P.E.

7-6-95

22567-421-0329-0011-001-02

J & M TESTING LAB., INC. 008893

FIELD DENSITY REPORT

Contractor: Florida Petroleum Services | Type Construction: Backfill Tank Removal

Project: Bechtel Tank #22567, Navy Rac. S.Div. | Copy To: Florida Petroleum Services

Location: Panama City, Florida | Material: Lt. Tan Sand

Lab No. C-95-1076 | Date Tested 6/22/95 | Date Reported 7/5/95

MAXIMUM DENSITY DETERMINED IN ACCORDANCE WITH ASTM D 1557 METHOD Modified

FIELD DENSITY DETERMINED IN ACCORDANCE WITH ASTM D 2922 METHOD Nuclear

TEST DATA

Location of Test	Test No.	Lift or Layer	Maximum Density (PCF)	Opt. Moisture %	Field Moisture %	Field Density Dry (PCF)	% Of Max.Den.	Job Spec.
Center of Pad, 4th. Lift, 12" Test	9	6"	102.1	10.5	10.3	106.3	104.1	85.0
Center of Pad, 5th. Lift, 6" Test	10	"	"	"	10.3	104.6	102.4	85.0
Westside Pad Center, 5th. Lift, 6" Test	11	"	"	"	9.3	105.4	103.2	85.0
Westside Pad Center, 4th. Lift, 12" Test	12	"	"	"	9.2	104.7	102.6	85.0
Southeast Corner, 6th. Lift, 12" Test	13	"	"	"	9.7	103.4	101.3	85.0
Southeast Corner, 7th. Lift, 6" Test	14	"	"	"	8.9	102.2	100.1	85.0
Northwest Corner, 7th.Lift, 6" Test	15	"	"	"	10.3	102.7	100.6	85.0
Northwest Corner, 6th. Lift, 12" Test	16	"	"	"	9.4	106.3	104.1	85.0
Northeast Corner, 8th. Lift, 6" Test	17	"	"	"	11.1	100.4	98.3	85.0
Southwest Corner, 8th. Lift, 6" Test	18	"	"	"	8.7	101.2	99.1	85.0
Northwest Corner, 9th. Lift, 12" Test	19	"	"	"	11.8	106.2	104.0	85.0
Northwest Corner, 10th. Lift, 6" Test	20	"	"	"	12.1	104.0	101.9	85.0
Southeast Corner, 10th. Lift, 6" Test	21	"	"	"	14.1	103.6	101.5	85.0
Southeast Corner, 9th. Lift, 12" Test	22	"	"	"	13.0	101.9	99.8	85.0

NOTE : * IN-PLACE DENSITY DOES NOT MEET REQUIREMENTS, ** RETEST DENSITY MEETS OR EXCEEDS REQUIREMENTS

Respectfully submitted,

J & M TESTING LAB., INC.

TESTED BY Bryan Conroy

APPROVED BY [signature] P.E.

7-6-95

22567-421-0329-0011-001-02

J & M TESTING LAB., INC.

008893

FIELD DENSITY REPORT

Contractor: Florida Petroleum Services — Type Construction: Pipe Backfill

Project: Bechtel Task #22567, Navy Rac. South — Copy To: Florida Petroleum Services

Location: Panama City, Florida — Material: Lt. Tan Sand

Lab No.: C-95-1122 — Date Tested: 7/6/95 — Date Reported: 7/10/95

MAXIMUM DENSITY DETERMINED IN ACCORDANCE WITH: ASTM D 1557 — METHOD: Modified

FIELD DENSITY DETERMINED IN ACCORDANCE WITH: ASTM D 2922 — METHOD: Nuclear

TEST DATA

Location of Test	Test No.	Lift or Layer	Maximum Density (PCF)	Opt. Moisture %	Field Moisture %	Field Density Dry (PCF)	% Of Max.Den.	Job Spec.
South 300 Tank - 12"	23	12"	102.2	10.5	4.8	105.9	103.7	98.0
Filter to Tanmac Center - 12"	24	"	"	"	14.9	99.0	96.9	95.0
Filter to Tanmac Center - 6"	25	6"	"	"	6.2	102.2	100.0	98.0

NOTE : * IN-PLACE DENSITY DOES NOT MEET REQUIREMENTS, ** RETEST DENSITY MEETS OR EXCEEDS REQUIREMENTS

Respectfully submitted,

J & M TESTING LAB., INC.

TESTED BY: Bryan Conroy

APPROVED BY: Donald W. [illegible] P.E.

7-11-95

22567-421-0329-0011-001-02

J & M TESTING LAB., INC.

FIELD DENSITY REPORT

Contractor: Florida Petroleum Services | Type Construction: Pipe Backfill

Project: Bechtel Tank #22567,Navy Rac.South Div. | Copy To: Florida Petroleum Services

Location: Panama City, FLorida | Material: Lt. Tan Sand

Lab No.: C-95-1133 | Date Tested: 7/10/95 | Date Reported: 7/11/95

MAXIMUM DENSITY DETERMINED IN ACCORDANCE WITH: ASTM D 1557 | METHOD: Modified

FIELD DENSITY DETERMINED IN ACCORDANCE WITH: ASTM D 2922 | METHOD: Nuclear

TEST DATA

Location of Test	Test No.	Lift or Layer	Maximum Density (PCF)	Opt. Moisture %	Field Moisture %	Field Density Dry (PCF)	% Of Max.Den.	Job Spec.
Filter to Tarmac Corner, 1st. Lift, Southeast	26	12"	102.2	10.5	4.9	109.7	107.3	95.0
Filter To Tarmac Corner, 2nd. Lift, Southeast	27	6"	"	"	5.3	106.5	104.2	98.0
15' From Corner on Tarmac, 1st. Lift, North	28	12"	"	"	5.2	100.4	98.3	95.0
15' From Corner on Tarmac, 2nd. Lift, North	29	6"	"	"	5.2	102.3	100.1	98.0
40' From Corner on Tarmac, 1st. Lift, North	30	12"	"	"	5.4	100.8	98.6	95.0
40' From Corner on Tarmac, 2nd. Lift, North	31	6"	"	"	7.2	100.7	98.5	98.0
North 300 Tank, 12" Test	32	12"	"	"	7.2	100.8	98.6	98.0
Bottom of Cut 60 From Corner on Tarmac, North	33	6"	"	"	7.3	97.2	95.1	95.0
100' From Corner on Tarmac, 1st. Lift, North	34	12"	"	"	17.1	97.8	95.7	95.0
100' From Corner on Tarmac, 2nd. Lift, North	35	6"	"	"	9.3	105.0	102.7	98.0

NOTE : * IN-PLACE DENSITY DOES NOT MEET REQUIREMENTS, ** RETEST DENSITY MEETS OR EXCEEDS REQUIREMENTS

Respectfully submitted,

J & M TESTING LAB., INC.

TESTED BY: Bryan Conroy

APPROVED BY: Donald W. [illegible] P.E.

7-11-95

22867-421-0329-0011-001-02

J & M TESTING LAB., INC.

STANDARD COUNT LOG

GAUGE SERIAL NUMBER _____

DATE	MOISTURE - MS	DENSITY - DS	OPERATOR	
6/1	618	[illegible]	Good	B. Conroy
6/2	613	[illegible]	Good	B. Conroy
6/5	617	3325	Good	B. Conroy
6/6	619	3329	Good	B. Conroy
6/7	616	3347	Good	B. Conroy
6/8	616	3351	Good	B. Conroy
6/11	616	3363	Good	B. Conroy
6/12	621	3334	Good	B. Conroy
6/13	616	3345	Good	B. Conroy
6/14	619	3374	Good	B. Conroy
6/15	620	3310	Good	B. Conroy
6/16	620	3318	Good	B. Conroy
6/19	620	3349	Good	B. Conroy
6/20	606	3310	Good	B. Conroy
6/21	617	3320	Good	B. Conroy

COMMENTS: These records must be maintained by any person using this gauge. This record must be with machine at all times.

22567-421-0329-0018-001-01

CUSTOMER COPY

Troxler Electronic Laboratories, Inc.

Gauge model - 3430A
Serial- 22966

Ref standard count:density - 3378
moisture- 619
Calib date: 2- 2-1994 Bay- 1
Print date: 02-02-1994

*** Density calibration count data ***

Depth (in)	Magnes 1789.0	Mag/Al 2210.0	Alumin 2715.0
BS	1520	1007	701
2	4999	3261	2053
4	5040	3106	1817
6	4064	2322	1259
8	2816	1466	729
10	1794	847	389
12	1041	447	198

*** Density performance parameters ***

Pos	A	B*1000	C	'Y'	Slope	Prec
BS	6.191	1.67755	-0.13079	2210.0	1.2	7.01
2	13.164	1.31044	-0.18131	2210.0	4.2	3.66
4	16.541	1.41099	-0.12604	2210.0	4.7	3.27
6	19.544	1.62283	-0.09319	2210.0	4.2	3.23
8	21.860	1.89102	-0.06085	2210.0	3.2	3.42
10	23.404	2.18391	-0.03808	2210.0	2.2	3.85
12	24.762	2.53100	-0.02574	2210.0	1.3	4.65

*** Moisture calibration count data ***

Mag 0.0	Mag/poly 578.0	S R
21	386	375

*** Moisture performance parameters ***

E	F*1000	Rat	Prec	S R	Exerr
0.03393	1.02017	3.12	5.29	-17.4	14.7

22567-421-0329-0018-001-01

CUSTOMER COPY

Troxler Electronic Laboratories, Inc.

***** Density Standard Decay Sheet *****

Gauge model - 3430A
Serial- 22966

Calib date: 2- 2-1994
Print date: 02-02-1994

Ref. std. cnt. = 3378

Range of projected density standard counts at future dates

Date	Lower Limit of Projected density Standard Count	Upper Limit of Projected density Standard Count
03-01-1994	3339	3406
04-01-1994	3332	3399
05-01-1994	3326	3393
06-01-1994	3319	3386
07-01-1994	3313	3380
08-01-1994	3307	3373
09-01-1994	3300	3367
10-01-1994	3294	3361
11-01-1994	3288	3354
12-01-1994	3281	3348
01-01-1995	3275	3341
02-01-1995	3269	3335
03-01-1995	3263	3329

22567-421-0329-0018-001-01

TROXLER NUCLEAR GAUGE EMERGENCY RESPONSE INFORMATION REQUIRED FOR TRANSPORTATION

(Reference DOT P 5800.5 ERG93, and 49CFR)

1) PROPER SHIPPING NAME:

- RADIOACTIVE MATERIAL, SPECIAL FORM, NOS, 7, UN2974

POTENTIAL HAZARDS

2) HEALTH HAZARDS

- Radiation presents minimal risk to lives of persons during transportation accidents.
- Undamaged packages are safe; damaged packages or materials released from packages can cause external radiation hazards. Contamination is not suspected.
- Packages (cartons, boxes, drums, articles, etc.) identified as "Type A" by marking on packages or by shipping papers contain non-life endangering amounts. Radioactive sources may be released if packages are damaged in moderately severe accidents.
- Packages (large and small, usually metal) identified as "Type B" by marking on packages or by shipping papers contain potentially life endangering amounts. Because of design, evaluation, and testing of packages, life endangering releases are not expected in accidents except those of utmost severity.
- Commonly available instruments can detect most of these materials.
- Water from cargo fire control is not expected to cause pollution.

3) FIRE OR EXPLOSION

- Packagings can be consumed without content loss from sealed source capsule.
- Radioactive source capsules and Type B packages are designed to withstand temperatures of 1475°F (800°C)

EMERGENCY ACTION

4) IMMEDIATE PRECAUTIONS

- **Priority response actions may be performed before taking radiation measurements.**
- **Priorities are life saving, control of fire and other hazards, and first aid.**
- Isolate hazard area and deny entry. Notify Radiation Authority of accident conditions.
- Delay final cleanup until instruction or advice of Radiation Authority.
- Positive pressure self-contained breathing apparatus (SCBA) and structural firefighter's protective clothing will provide adequate protection against internal radiation exposure, but not external exposure.
- CALL TROXLER ELECTRONIC LABORATORIES AT (919) 839-2676 FOR EMERGENCY ASSISTANCE.

5) FIRE

- Do not move damaged packages; move undamaged packages out of fire zone.
- **Small Fires:** Dry chemical, CO_2 water spray or regular foam.
- **Large Fires:** Water spray, fog (flooding amounts)

6) SPILL OR LEAK

- **Do not touch damaged packages or spilled material.**
- Slightly damaged or damp outer surfaces seldom indicate failure of inner container.
- If source is identifed as being out of package; stay away and await advice from Radiation Authority.

7) FIRST AID

- Use first aid treatment according to the nature of the injury.
- Persons exposed to special form sources are not likely to be contaminated with radioactive material.

P/T NO: 127748 PACKING LIST DATE 3/23/94 PAGE 1

SHIP-TO ADDRESS: ORIGINAL

J & M TESTING LAB, INC
STATE ROAD 280 E
CHIPLEY FL 32428

CUSTOMER 1- 640200

ORDER NUMBER: 22374 ORDER DATE: 3/22/94

P/O NO: 32294

** ACCEPTS BACKORDER
** ACCEPTS PARTIAL SHIPMENTS

SPLIT SHIP ITEMS WILL BE SHIPPED AT A LATER DATE.

SHIP INSTRUCTIONS: P1 AIR

ORDER COMMENTS: SHELDON PEEL 904-638-1506
ESTABLISHED CUSTOMER
****
SPECIAL PRICE APPOVED BY
BILL WALKER INCLUDES TRADE IN
OF (1) 3411,S/N 4983.
****

JR 3-23-94

DC.	ITEM NUMBER	ITEM DESCRIPTION	QTY ORDERED	U/M	QTY SHIPPED	U/M
	105296.1202	3430 GAUGE 12/2 S/N 22906	1	EA	1	✓
	105305	3430 OPERATORS MANUAL	1	EA	1	✓
	104156	DC CHARGER	1	EA	1	✓
	104148	ACCESSORY BATTERY CASE ASSY	1	EA	1	✓
	104410	AC CHARGER, 12 VDC 500MA	1	EA	1	✓
	100421	DRILL ROD	1	EA	1	✓
	102111	3400 SCRAPER PLATE	1	EA	1	✓
	103680.1000	EXTRACTIONTOOL 1 EA	1		✓	
	103623.3430	3430 SHIPPING CASE/CARTON ASSY	1	EA	1	✓
	900000	SOURCE CERTIF CALIB	1	EA	1	✓
	900003	80 MCI CS137 S/N 75-4769	1	EA	1	✓
	900004	40 MCI AM241:BE S/N 47-18157	1	EA	1	✓
	012176	LOCK WITH 2 KEYS	1	EA	1	✓
	899998.3411	SPECIAL 3411-B TRADE-IN DEFER			1	

P/T NO: 127748 PACKING LIST DATE 3/23/94 PAGE 2

SHIP-TO ADDRESS: ORIGINAL

J & M TESTING LAB, INC
STATE ROAD 280 E
CHIPLEY FL 32428

CUSTOMER 1- 640200

ORDER NUMBER: 22374 ORDER DATE: 3/22/94

P/O NO: 32294

** ACCEPTS BACKORDER
** ACCEPTS PARTIAL SHIPMENTS

SPLIT SHIP ITEMS WILL BE SHIPPED AT A LATER DATE.

SHIP INSTRUCTIONS: P1 AIR

SEQ.	ITEM NUMBER	ITEM DESCRIPTION	QTY ORDERED	U/M	QTY SHIPPED	U/M
	899998.0001	STD ADDT CHG AIR SHIP-GAUGES	1	EA	1	✓

TROXLER NUCLEAR GAUGE EMERGENCY RESPONSE INFORMATION REQUIRED FOR TRANSPORTATION

(Reference DOT P 5800.5 ERG93, and 49CFR)

1) PROPER SHIPPING NAME:

- RADIOACTIVE MATERIAL, SPECIAL FORM, NOS, 7, UN2974

POTENTIAL HAZARDS

2) HEALTH HAZARDS

- Radiation presents minimal risk to lives of persons during transportation accidents.
- Undamaged packages are safe; damaged packages or materials released from packages can cause external radiation hazards. Contamination is not suspected.
- Packages (cartons, boxes, drums, articles, etc.) identified as "Type A" by marking on packages or by shipping papers contain non-life endangering amounts. Radioactive sources may be released if packages are damaged in moderately severe accidents.
- Packages (large and small, usually metal) identified as "Type B" by marking on packages or by shipping papers contain potentially life endangering amounts. Because of design, evaluation, and testing of packages, life endangering releases are not expected in accidents except those of utmost severity.
- Commonly available instruments can detect most of these materials.
- Water from cargo fire control is not expected to cause pollution.

3) FIRE OR EXPLOSION

- Packagings can be consumed without content loss from sealed source capsule.
- Radioactive source capsules and Type B packages are designed to withstand temperatures of 1475°F (800°C)

EMERGENCY ACTION

4) IMMEDIATE PRECAUTIONS

- **Priority response actions may be performed before taking radiation measurements.**
- **Priorities are life saving, control of fire and other hazards, and first aid.**
- Isolate hazard area and deny entry. Notify Radiation Authority of accident conditions.
- Delay final cleanup until instruction or advice of Radiation Authority.
- Positive pressure self-contained breathing apparatus (SCBA) and structural firefighter's protective clothing will provide adequate protection against internal radiation exposure, but not external exposure.
- CALL TROXLER ELECTRONIC LABORATORIES AT (919) 839-2676 FOR EMERGENCY ASSISTANCE.

5) FIRE

- Do not move damaged packages; move undamaged packages out of fire zone.
- **Small Fires:** Dry chemical, CO2 water spray or regular foam.
- **Large Fires:** Water spray, fog (flooding amounts)

6) SPILL OR LEAK

- **Do not touch damaged packages or spilled material.**
- Slightly damaged or damp outer surfaces seldom indicate failure of inner container.
- If source is identifed as being out of package; stay away and await advice from Radiation Authority.

7) FIRST AID

- Use first aid treatment according to the nature of the injury.
- Persons exposed to special form sources are not likely to be contaminated with radioactive material.

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*************************************************
*      TROXLER ELECTRONIC LABORATORIES, INC.    *
*                GAUGE CERTIFICATE              *
*                    ORIGINAL                   *
*************************************************
```

TROXLER GAUGE MODEL: 3430
GAUGE SERIAL NUMBER: 22966

TRANSFERRED ON: 23 MARCH, 1994
SALES ORDER NUMBER: 22374

TO

DE : 6402000
ICENSE: 1763-1
ME : J & M TESTING LAB, INC.
STATE ROAD 280 EAST

CHIPLEY, FL 32428

FROM

32-182-1
TROXLER ELECT. LABORATORIES, INC.
P O BOX 12057
RESEARCH TRIANGLE PARK, NC 27709

SEALED SOURCE		SEALED SOURCE
CS-137	RADIOACTIVE MATERIAL	AM-241:BE
75- 4769	SOURCE SERIAL NUMBER	47-18157
.30 GBQ(8.0 MCI)	ACTIVITY	1.48 GBQ(40 MCI)
10 DEC , 1993	DATE OF MEASUREMENT	10 DEC , 1993
102112	TROXLER DRAWING NUMBER	102451
GB/353/S85	SPECIAL FORM CERTIFICATE	GB/7/S-85
C64444	ANSI SPECIFICATION	C66544
23 MARCH, 1994	****DATE OF LEAK TEST****	23 MARCH, 1994

ETAIN THIS DOCUMENT IN YOUR GAUGE RECORDS AS A RECORD OF RECEIPT.
LEASE NOTE THAT THIS INFORMATION IS PROVIDED TO ASSIST IN COMPLIANCE OF
PPLICABLE RULES AND REGULATIONS AND MIGHT NOT ALWAYS BE COMPLETE AND/OR
URRENT. ALWAYS CONSULT YOUR LICENSING AGENCY IF YOU HAVE ANY QUESTIONS
EGARDING THE AUTHORIZED POSSESSION, USE, OR TRANSPORTATION OF THIS GAUGE.
COPY OF EACH APPLICABLE SPECIAL FORM CERTIFICATE AND US DOT 7A TYPE A
ACKAGE TESTING RESULTS REFERENCED BELOW ARE AVAILABLE UPON REQUEST TO
ROXLER ELECTRONIC LABORATORIES ,INC.

. SPECIAL FORM CERTIFICATE(S)- RADIOACTIVE MATERIALS USED IN THIS GAUGE
AVE BEEN CERTIFIED AS "SPECIAL FORM" BY A RECOGNIZED "COMPETENT AUTHORITY".
OU ARE REQUIRED TO POSSESS A CURRENT COPY OF THE APPLICABLE SPECIAL FORM
ERTIFICATE(S) TO TRANSPORT OR SHIP THIS GAUGE. A RECOMMENDED SOURCE
ORKING LIFE IS 15 YEARS, BASED ON A SOURCE MANUFACTURER STUDY AND CAPSULE
ESIGN.

. LEAK TEST - THE ABOVE REFERENCED LEAK TEST REVEALED THE REMOVABLE
CTIVITY TO BE LESS THAN 0.005 MICROCURIE.

. SHIPPING INFORMATION - BOTH THE ABOVE LISTED NUCLEAR GAUGE AND/OR THE
ELATIVE SHIPPING CASE MET THE APPLICABLE US DOT AND IAEA REQUIREMENTS AT
HE TIME OF PACKAGE CERTIFICATION. THE GAUGE SHOULD ALWAYS BE TRANSPORTED
N THE RELATIVE SHIPPING CASE TO ENSURE COMPLIANCE WITH LABELING
UIREMENTS. YOU ARE REQUIRED TO POSSESS A CURRENT COPY OF THE RESULTS
APPLICABLE PACKAGE TESTING FOR US DOT 7A TYPE A IN ORDER TO TRANSPORT
R SHIP THIS GAUGE.

ROPER SHIPPING NAME, CLASSIFICATION, LABELING AND MARKING -
, RADIOACTIVE MATERIAL, SPECIAL FORM, N.O.S., UN2974, US DOT 7A TYPE A
PACKAGE, CLASS 7, RADIOACTIVE YELLOW II, TI = 0.3 (WATER RESISTANT)

```
*****************************************************
*      TROXLER ELECTRONIC LABORATORIES, INC.        *
*                GAUGE CERTIFICATE                  *
*                    ORIGINAL                       *
*****************************************************
```

TROXLER GAUGE MODEL: 3430
GAUGE SERIAL NUMBER: 22966

TRANSFERRED ON: 23 MARCH, 1994
SALES ORDER NUMBER: 22374

TO

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CENSE: 1763-1
ME : J & M TESTING LAB, INC.
STATE ROAD 280 EAST

CHIPLEY, FL 32428

FROM

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TROXLER ELECT. LABORATORIES, INC.
P O BOX 12057
RESEARCH TRIANGLE PARK, NC 27709

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75- 4769	SOURCE SERIAL NUMBER	47-18157
,30 GBQ(8.0 MCI)	ACTIVITY	1.48 GBQ(40 MCI)
10 DEC , 1993	DATE OF MEASUREMENT	10 DEC , 1993
102112	TROXLER DRAWING NUMBER	102451
GB/353/S85	SPECIAL FORM CERTIFICATE	GB/7/S-85
C64444	ANSI SPECIFICATION	C66544
3 MARCH, 1994	****DATE OF LEAK TEST****	23 MARCH, 1994

TAIN THIS DOCUMENT IN YOUR GAUGE RECORDS AS A RECORD OF RECEIPT.
LEASE NOTE THAT THIS INFORMATION IS PROVIDED TO ASSIST IN COMPLIANCE OF
PLICABLE RULES AND REGULATIONS AND MIGHT NOT ALWAYS BE COMPLETE AND/OR
URRENT. ALWAYS CONSULT YOUR LICENSING AGENCY IF YOU HAVE ANY QUESTIONS
GARDING THE AUTHORIZED POSSESSION, USE, OR TRANSPORTATION OF THIS GAUGE.
COPY OF EACH APPLICABLE SPECIAL FORM CERTIFICATE AND US DOT 7A TYPE A
CKAGE TESTING RESULTS REFERENCED BELOW ARE AVAILABLE UPON REQUEST TO
OXLER ELECTRONIC LABORATORIES ,INC.

SPECIAL FORM CERTIFICATE(S)- RADIOACTIVE MATERIALS USED IN THIS GAUGE
VE BEEN CERTIFIED AS "SPECIAL FORM" BY A RECOGNIZED "COMPETENT AUTHORITY".
U ARE REQUIRED TO POSSESS A CURRENT COPY OF THE APPLICABLE SPECIAL FORM
RTIFICATE(S) TO TRANSPORT OR SHIP THIS GAUGE. A RECOMMENDED SOURCE
RKING LIFE IS 15 YEARS, BASED ON A SOURCE MANUFACTURER STUDY AND CAPSULE
SIGN.

LEAK TEST - THE ABOVE REFERENCED LEAK TEST REVEALED THE REMOVABLE
TIVITY TO BE LESS THAN 0.005 MICROCURIE.

SHIPPING INFORMATION - BOTH THE ABOVE LISTED NUCLEAR GAUGE AND/OR THE
LATIVE SHIPPING CASE MET THE APPLICABLE US DOT AND IAEA REQUIREMENTS AT
TIME OF PACKAGE CERTIFICATION. THE GAUGE SHOULD ALWAYS BE TRANSPORTED
HE RELATIVE SHIPPING CASE TO ENSURE COMPLIANCE WITH LABELING
REMENTS. YOU ARE REQUIRED TO POSSESS A CURRENT COPY OF THE RESULTS
APPLICABLE PACKAGE TESTING FOR US DOT 7A TYPE A IN ORDER TO TRANSPORT
SHIP THIS GAUGE.

PER SHIPPING NAME, CLASSIFICATION, LABELING AND MARKING -
RADIOACTIVE MATERIAL, SPECIAL FORM, N.O.S., UN2974, US DOT 7A TYPE A
PACKAGE, CLASS 7, RADIOACTIVE YELLOW II

008893

TROXLER REGULATORY UPDATE

Amendments to Title 49 of the US Code of Federal Regulations

Revision 1: December, 1991

The following information is applicable to all users of Nuclear Gauges in the United States.

Troxler Electronic Laboratories, Inc.
Research Triangle Park, NC 27709
(919) 549-8661

REGULATIONS UPDATE

Title 49 of the United States Code of Federal Regulations (49 CFR) pertaining to the transportation of portable nuclear gauges has been amended over the past several years to include new requirements for gauge users. In addition, new regulations have been added by the EPA that impact the proper transportation of nuclear gauges. This article addresses these rules as they pertain to you, the transporter/shipper of Troxler portable nuclear gauges. Please note that this article applies to US domestic shipments only. Other requirements apply to international shipments. Additional documentation and package labeling is required for transportation by air. Contact your common carrier for further assistance in both shipping by air and international shipping. This article does not cover all regulatory requirements for shipment of radioactive material. The following is required by regulation for the legal transportation of a nuclear gauge, as of August 26, 1991:

- A current copy of the "IAEA Certificate of Competent Authority" for each source in the gauge (Special Form Source Certificate) must be on file.
- A copy of the results of the "TYPE A" package testing must be on file.
- An "Emergency Response Information" document must be in the vehicle and immediately accessible to the driver.
- "RQ" (Reportable Quantities) designation on applicable documents and packages.
- A properly completed "Bill of Lading" must be in the vehicle and immediately accessible to the driver. This document must include an "Emergency Response Telephone Number".
- The package must be locked or otherwise sealed.
- The package must be inspected (QC) prior to each shipment.

We will discuss each of these documents and requirements in this article.

General Transportation Requirements Discussion:

There is a common misconception throughout our industry that there is one set of requirements for shipment via a common carrier and another set of requirements for a gauge user who is transporting his gauge from the storage location to the work location. The rules of 49 CFR actually apply any time a nuclear gauge used in commerce is being transported by motor vehicle on a public highway, regardless of the carrier.

Certificate of Competent Authority (special form source certificate):

49 CFR {173.476(a)} requires that a shipper keep a copy of the IAEA Certificate of Competent Authority for each source in a gauge on file "for at least one year after the latest shipment". However, please note that this certification does expire. You must have a current copy in your possession before you can legally ship. Troxler will attempt to keep current copies available for our gauge customers. Refer to your gauge certificate for the required certificate identification numbers (Example: GB/7/S). Troxler has provided copies of current certificates with this article. We recommend that you place a copy of the applicable certificate(s) in each of your gauge files.

A certificate issued by Troxler with each gauge gives the gauge model and serial number, along with relative source and ownership information. The Troxler certificate has been confused with the certificate required above. The Troxler issued certificate is not a legally required document for purposes of shipment. However, it is a desirable document to possess when being inspected by either your licensing agency or USDOT, as it does give relevant gauge information.

Results of Type A Package Testing:

49 CFR {173.415(a)} requires that each shipper of a (Specification 7A) Type A package must maintain on file "for at least one year after the latest shipment," testing methods and results for the Type A package. Troxler has provided a document entitled "Testing Results for Type A Packages for Troxler Gauges/Cases..." which meets the requirement for all Troxler gauges under current manufacture.

Emergency Response Sheet:

49 CFR {172, Subpart G} requires that emergency response information (Emergency Response Sheet) accompany the shipment of a nuclear gauge. This document must be in the transport vehicle and immediately accessible to the driver during transportation on a public highway.

Emergency Response Telephone Number:

49 CFR {172, Subpart G} also requires that a 24-hour emergency response telephone number be provided on a shipping paper. This number must be manned continuously, while your gauge is in transportation, by personnel who are "knowledgeable of the hazards and characteristics of the hazardous material being shipped, has comprehensive emergency response and accident mitigation information for that material, or has immediate access to a person who possesses such knowledge and information." Troxler currently provides this service to Troxler gauge users at no charge (919-839-2676).

RQ Labeling Requirements:

The EPA has added a rule to 49 CFR {172.203(c)(2)(ii) and 172.324(b)} that requires that "RQ" (Reportable Quantities) be added to the proper shipping name on the shipping documents and on the shipping package for the materials listed in Table 2 of 49 CFR 172.101 if their value is greater than or equal to the value listed in column 3 of that table. The following are Reportable Quantities:

^{137}Cesium	1,000 mCi
^{60}Cobalt	10,000 mCi
^{241}Americium:Beryllium	10 mCi
^{252}Californium	100 mCi
^{226}Radium	53 mCi

The shipper must put "RQ" on the shipping papers and shipping package, in association with the proper shipping name, for any Troxler gauge that contains amounts equal to or exceeding the above listed radioactive material.

For example, the proper shipping name for a 3400 Series gauge, which contains 8 mCi of ^{137}Cesium and 40 mCi of ^{241}Americium:Beryllium would be:

"RQ, Radioactive Materials, Special Form, NOS, UN2974"

"Bill of Lading" (Shipping Papers) Requirements:

49 CFR {172, Subpart C} specifies the requirements for the "Bill of Lading." The "Bill of Lading" must accompany the driver of the vehicle during the transportation of the gauge upon a public highway. This document must have the following (An example is furnished to assist in the preparation of a bill of lading for intra-company gauge transportation):

- Name of shipper
- Description of the shipment (proper shipping name, material identification number, hazard class, type of package, name and activity of each nuclide, category of labeling, and transport index).
- Emergency Response Telephone Number
- Shipper's Certification {49 CFR 172.204(a)(1) or (2)}
- Document must be signed by shipper {49 CFR 172.204(d)}

Locking or Sealing of Package:

49 CFR 173.412 requires for Type A packages that "the outside of the packaging incorporate a feature, such as a seal, that is not readily breakable, and that, while intact, is evidence that the package has not been opened." This requirement can be satisfied by the use of a padlock.

Inspection of Package Prior to Shipment:

49 CFR 173.475 requires the shipper to inspect each package before shipment to ensure that the package is physically sound and that each closure device (hinges, hasps, latches, etc.) "is properly installed, secured, and free of defects."

Accident Notification Requirements:

Notify your licensing agency as soon as practical after a gauge accident has occurred. You are also required by 49 CFR 171.15 to notify, "at the earliest practical moment," the USDOT at 1-800-424-8802 of an accident "that occurs during the course of transportation (including loading, unloading, and temporary storage) in which fire, breakage, spillage, or suspected contamination occurs involving shipment of radioactive materials."

Please feel free to contact Troxler Electronic Laboratories should you require assistance in locating test documentation for your Troxler gauge.

008893

Troxler Electronic Laboratories, Inc.
Testing results for Type A Packages for Troxler Gauges/Cases as required by USDOT and IAEA

INSTRUCTIONS FOR FINDING YOUR 7A TYPE A TESTING RESULTS:

- Determine which gauge/case combination you possess by first looking at the case drawings (below) to determine the correct case.
- Look down the first column (on next page) and find the applicable column for your gauge.
- Find the corresponding case in the second column (next page) adjacent to the first column.
- Gauges that are no longer in production may not be listed. Please contact your Troxler representative or the Troxler home office if you need any assistance.

TESTING PERFORMED & RESULTS (unless otherwise indicated in footnotes):

Water Spray: Subjected the package to a water spray simulating rainfall of approximately two (2) inches per hour for one continuous hour.
Results: No physical damage to the package was observed, unless otherwise noted in footnotes.

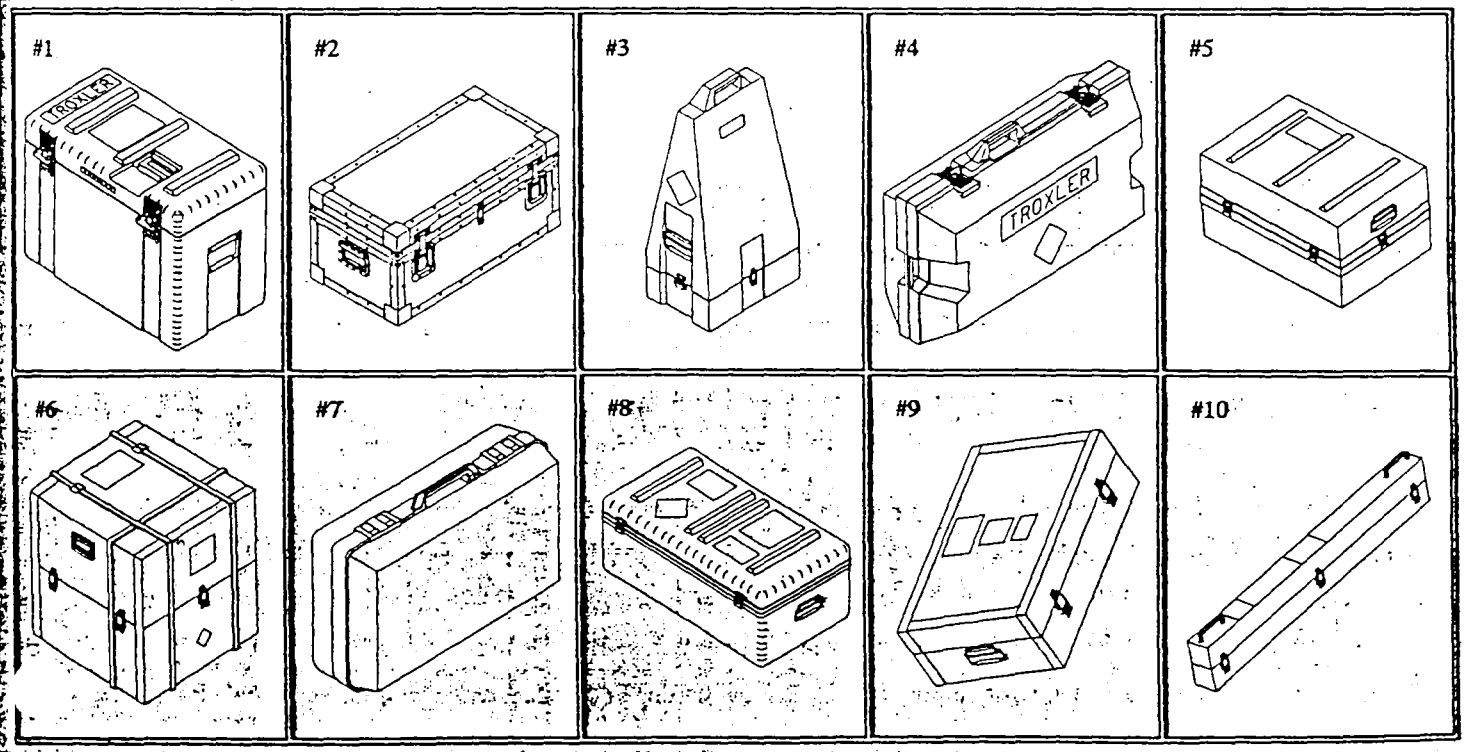
Vibration: The package was vibrated with a displacement of 0.1" at approximately 12 Hz for a period of 24 continuous hours.
Results: No physical damage to the package was observed, unless otherwise noted in footnotes.

Free Drop: The package was dropped from a height of four (4) feet onto a non-yielding surface from a position to cause maximum damage to the package.
Results: The case was scratched due to the abrasiveness of the concrete, but no other physical damage to the package was observed, unless otherwise noted in footnotes.

Penetration: The package was placed on a non-yielding surface. A 1 1/4" diameter, 13 pounds steel cylinder with a hemispherical end was dropped in the vertical position from a height of 40" onto the package to a point to cause maximum damage to the package.
Results: No physical damage to the package was observed, unless otherwise noted in footnotes.

pression: Package was placed on a non-yielding surface and subjected to a compressive load of 265 pounds per square foot multiplied by the vertically projected area of the package, in square feet, for 24 continuous hours.
Results: No physical damage to the package was observed, unless otherwise noted in footnotes.

ACKAGE DRAWINGS:



TROXLER

008893

ESULTS OF TESTING:

Consult the table below for applicable testing results, following the instructions on the previous page.

' in the table below indicates the applicable test was performed, with the results as stated on previous the page of this document, , otherwise stated in the referenced footnotes.

GAUGE MODEL	CASE/ DRAWING #	WATER SPRAY	Vibration	FREE DROP	Penetration	Compression	PACKAGE Weight (lbs)	DATE TEST COMPLETED
400 SERIES- 3401, 3401-B 3411, 3411-B 3430, 3430-M 3440, 3440-M	WATER RES/#1	(1)	✓	✓	✓	✓	110, (5)	9/91
	TRUNK/#2	(1)	✓	✓	✓	✓	115, (5)	9/91
	PYRAMID/#3	(1)	✓	✓	✓	✓, (7)	93, (5)	9/91
	BLOWMOLD/#4	(1)	✓	✓	✓	✓, (2)	81	5/85
	ABS/#5	(1)	✓	✓	✓	✓	105, (5)	9/91
241 SERIES- 3241-A, 3241-B 3241-C, 3241-M 3242	WATER RES/#1	(1)	✓	✓	✓	✓	103, (5)	9/91
	PLYWOOD/#6	(4)	✓	(4)	✓, (3)	✓	(6)	3/81
	GAUGE ONLY	(1)	✓	✓, (3)	✓, (3)	✓, (2)	55	1/83
3216, 3217, 3218	PLASTIC/#7	(1)	✓	✓	✓	✓	70, (5)	6/91
	PYRAMID/#3	(1)	✓	✓	✓	✓, (7)	93, (5)	9/91
	PLAST(OLD)/#8	(4)	✓	(4)	✓, (3)	✓	(6)	4/80
1545	TRUNK/#2	(1)	✓	✓	✓	✓	145, (5)	9/91
1640	WATER RES/#1	(1)	✓	✓	✓	✓	110, (5)	9/91
	TRUNK/#2	(1)	✓	✓	✓	✓, (2)	93	6/84
3376	WOODEN/#9	(4)	✓	(4)	✓, (3)	✓, (2)	77	3/81
1565	ALUMINUM/#10	(4)	✓	(4)	✓, (3)	✓, (2)	85	3/81
4301 & 4302	PLASTIC/#7	(1)	✓	✓	✓	✓	70, (5)	6/91
4440 SERIES	WATER RES/#1	(1)	✓	✓	✓	✓	120, (5)	9/91

OTNOTES:

1) Engineering Evaluation - Water exposure of the magnitude required by regulations would not affect the shielding or containment integrity.

2) Compressive load at date of test was specified as being derived using the "maximum horizontal cross-section of the package," in place of the "vertically projected area of the package."

3) Cosmetic damage was observed.

4) Package material was exempt from this test per regulations at the time of testing.

5) Package tested with full weight plus 20 pounds added.

6) Package weight not available (case is no longer in production).

7) Engineering Evaluation - Test not practical due to case geometry.

Tes ults were obtained from the most current Type A Package testing and evaluation documentation.

Revision 1, 12/91

TROXLER

Reference GB/7/S-85

Certificate Issue 1

Certificate of Approval of Design for Special Form Radioactive Material

Title
Neutron Source Capsules X.1 & X.1/2
Drawing Nos and Specification Reference
X.1 Assembly: 3A 10880 Issue E, X1/2 Assembly: 3A 62339 Issue A Details: 3A 10623 Issue H; 3A 10939 Issue G; 3A 11042 Issue D; 3A 61781 Issue C; 3A 62338 Issue A BS 5002/2/SPC 38 - 41 (UKAEA AH & SB) September 1969
C. A. Programme Reference IPQAM

Radioactive Material	Maximum Activity
Americium 241, Curium 242, Radium 226, Californium 252, Thorium 228, Plutonium 238, Actinium 227	37 GBq

THIS IS TO CERTIFY that the Secretary of State for Transport being, for the purposes of the Regulations of the International Atomic Energy Agency, the Competent Authority of Great Britain in respect of inland surface transport and of the United Kingdom of Great Britain and Northern Ireland in respect of sea and air transport and the Department of the Environment for Northern Ireland being the Competent Authority of Northern Ireland in respect of inland surface transport, have approved the above-mentioned Special Form Design. Radioactive material manufactured to the above-mentioned design qualifies as special form radioactive material and as such will meet the requirements of the regulations overleaf.

This Certificate of Approval applies only to the design as set out in the above named drawings and specifications submitted by Amersham International plc

In the event of any alteration to the above mentioned drawings and specifications or in any of the facts stated in the application for approval, this certificate will cease to have effect unless the Competent Authority is notified of the alteration and the Competent Authority confirms the certificate notwithstanding the alteration.

This Certificate Cancels all Previous Issues and is valid until 31 July 1994

Competent Authority Identification Mark:

GB/7/S-85

UNITED KINGDOM COMPETENT AUTHORITY FOR THE TRANSPORT
- 5 JUL 1991
OF RADIOACTIVE MATERIALS

for Transport Radiological Adviser
Department of Transport
2 Marsham Street
London SW1P 3EB

On behalf of the Secretary of State for Transport and the Department of the Environment for Northern Ireland

Reference GB/353/S-85

Certificate Issue 1

Certificate of Approval of Design for Special Form Radioactive Material

Title
Capsule X.1218
Drawing Nos and Specification Reference
Assembly 3A 62269 Issue A Details 3A 62268 Issue A SM/GB/353/S-85 Dated 21 February 1991
C. A. Programme Reference IPQAM

Radioactive Material	Maximum Activity
Caesium 137	555 MBq

THIS IS TO CERTIFY that the Secretary of State for Transport being, for the purposes of the Regulations of the International Atomic Energy Agency, the Competent Authority of Great Britain in respect of inland surface transport and of the United Kingdom of Great Britain and Northern Ireland in respect of sea and air transport and the Department of the Environment for Northern Ireland being the Competent Authority of Northern Ireland in respect of inland surface transport, have approved the above-mentioned Special Form Design. Radioactive material manufactured to the above-mentioned design qualifies as special form radioactive material and as such will meet the requirements of the regulations overleaf.

This Certificate of Approval applies only to the design as set out in the above named drawings and specifications submitted by Amersham International plc

In the event of any alteration to the above mentioned drawings and specifications or in any of the facts stated in the application for approval, this certificate will cease to have effect unless the Competent Authority is notified of the alteration and the Competent Authority confirms the certificate notwithstanding the alteration

This Certificate Cancels all Previous Issues and is valid until 28 February 1994

Competent Authority Identification Mark:

GB/353/S-85

UNITED KINGDOM COMPETENT AUTHORITY FOR THE TRANSPORT
28 FEB 1991
OF RADIOACTIVE

Transport Radiological Adviser
Department of Transport
2 Marsham Street
London SW1P 3EB

Reference GB/149/S

Certificate Issue 4

Certificate of Approval
of Design for Special Form Radioactive Material

Title
Neutron Source Capsule XN.41
Drawing Nos and Specification Reference
Assembly BRC 10368/S Issue C Details ARC 10366/S Issue B ARC 10367/S Issue B RSD/CTR/131 Dated 24 July 1981

Radioactive Material	Maximum Activity
Americium 241/Beryllium	74 GBq (2 Ci)

THIS IS TO CERTIFY that the Secretary of State for Transport being, for the purposes of the Regulations of the International Atomic Energy Agency, the Competent Authority of Great Britain in respect of inland surface transport and of the United Kingdom of Great Britain and Northern Ireland in respect of sea and air transport and the Department of the Environment for Northern Ireland being the Competent Authority of Northern Ireland in respect of inland surface transport, have approved the above-mentioned Special Form Design. Radioactive material manufactured to the above-mentioned design qualifies as special form radioactive material and as such will meet the requirements of the regulations overleaf.

This Certificate of Approval applies only to the design as set out in the above named drawings and specifications submitted by Amersham International plc

In the event of any alteration to the above mentioned drawings and specifications or in any of the facts stated in the application for approval, this certificate will cease to have effect unless the Competent Authority is notified of the alteration and the Competent Authority confirms the certificate notwithstanding the alteration.

This Certificate Cancels all Previous Issues and is valid until 31 December 1992 with effect from 26 October 1990

Competent Authority Identification Mark:

GB/149/S

UNITED KINGDOM COMPETENT AUTHORITY FOR THE TRANSPORT
- 4 OCT 1990
OF RADIOACTIVE MATERIALS

Transport Radiological Adviser
Department of Transport
2 Marsham Street
London SW1P 3EB

On behalf of the Secretary of State for Transport and the Department of

Reference GB/210/S

Certificate Issue 5

Certificate of Approval
of Design for Special Form Radioactive Material

Title
Neutron Capsules XN.142 and XN.146
Drawing Nos and Specification Reference
Assembly ARC 10714/S Issue C (XN.142) 3RC 10623/S Issue F (XN.146) Details 4RC 10938/S Issue E 4RC 10939/S Issue E RSD/CTR/91 Dated 14 October 1980

Radioactive Material	Maximum Activity
Californium 252	18.5 GBq (500 mCi)
Americium 241	3.7 GBq (100 mCi)

THIS IS TO CERTIFY that the Secretary of State for Transport being, for the purposes of the Regulations of the International Atomic Energy Agency, the Competent Authority of Great Britain in respect of inland surface transport and of the United Kingdom of Great Britain and Northern Ireland in respect of sea and air transport and the Department of the Environment for Northern Ireland being the Competent Authority of Northern Ireland in respect of inland surface transport, have approved the above-mentioned Special Form Design. Radioactive material manufactured to the above-mentioned design qualifies as special form radioactive material and as such will meet the requirements of the regulations overleaf.

This Certificate of Approval applies only to the design as set out in the above named drawings and specifications submitted by Amersham International plc

In the event of any alteration to the above mentioned drawings and specifications or in any of the facts stated in the application for approval, this certificate will cease to have effect unless the Competent Authority is notified of the alteration and the Competent Authority confirms the certificate notwithstanding the alteration.

This Certificate Cancels all Previous Issues and is valid until 31 December 1992

Competent Authority Identification Mark:

GB/210/S

UNITED KINGDOM COMPETENT AUTHORITY FOR THE TRANSPORT
10 APR 1990
OF RADIOACTIVE MATERIALS

Transport Radiological Adviser
Department of Transport
2 Marsham Street
London SW1P 3EB

On behalf of the Secretary of State for Transport and the Department of the Environment for Northern Ireland

Reference GB/113/S

Certificate Issue 4

Certificate of Approval
of Design for Special Form Radioactive Material

Title
Neutron Plus Gamma Source Capsule X.220
Drawing Nos and Specification Reference
Assembly: 3A 10036 Issue E Details: 3A 10039 Issue E 3A 10038 Issue D RSD/CTR/102 Dated 14 January 1981

Radioactive Material	Maximum Activity
Americium 241/Beryllium	4.6 GBq (120 mCi)
and Caesium 137	4.6 GBq (120 mCi)

THIS IS TO CERTIFY that the Secretary of State for Transport being, for the purposes of the Regulations of the International Atomic Energy Agency, the Competent Authority of Great Britain in respect of inland surface transport and of the United Kingdom of Great Britain and Northern Ireland in respect of sea and air transport and the Department of the Environment for Northern Ireland being the Competent Authority of Northern Ireland in respect of inland surface transport, have approved the above-mentioned Special Form Design. Radioactive material manufactured to the above-mentioned design qualifies as special form radioactive material and as such will meet the requirements of the regulations overleaf.

This Certificate of Approval applies only to the design as set out in the above named drawings and specifications submitted by Amersham International plc

In the event of any alteration to the above mentioned drawings and specifications or in any of the facts stated in the application for approval, this certificate will cease to have effect unless the Competent Authority is notified of the alteration and the Competent Authority confirms the certificate notwithstanding the alteration.

This Certificate Cancels all Previous Issues and is valid until 31 December 1992

Competent Authority Identification Mark:

GB/113/S

UNITED KINGDOM COMPETENT AUTHORITY FOR THE TRANSPORT
10 MAY 1990
OF RADIOACTIVE MATERIALS

Transport Radiological Adviser
Department of Transport
2 Marsham Street
London SW1P 3EB

On behalf of the Secretary of State

Reference GB/140/S

Certificate Issue 4

Certificate of Approval
of Design for Special Form Radioactive Material

Title
High Energy Gamma Source Type XU 30/0 or Neutron Source Type XU 30/1
Drawing Nos and Specification Reference
Gamma Source Assembly ARC 10249/S Issue B Neutron Source Assembly ARC 10250/S Issue C Details ARC 10251/S Issue C RSD/CTR/88 - 15.4.1980 Details ARC 10252/S Issue C

Radioactive Material	Maximum Activity
Gamma - Caesium 137	4.44 GBq (120 mCi)
Neutron - Americium 241/Be	18.5 GBq (500 mCi)

THIS IS TO CERTIFY that the Secretary of State for Transport being, for the purposes of the Regulations of the International Atomic Energy Agency, the Competent Authority of Great Britain in respect of inland surface transport and of the United Kingdom of Great Britain and Northern Ireland in respect of sea and air transport and the Department of the Environment for Northern Ireland being the Competent Authority of Northern Ireland in respect of inland surface transport, have approved the above-mentioned Special Form Design. Radioactive material manufactured to the above-mentioned design qualifies as special form radioactive material and as such will meet the requirements of the regulations overleaf.

This Certificate of Approval applies only to the design as set out in the above named drawings and specifications submitted by Amersham International plc

In the event of any alteration to the above mentioned drawings and specifications or in any of the facts stated in the application for approval, this certificate will cease to have effect unless the Competent Authority is notified of the alteration and the Competent Authority confirms the certificate notwithstanding the alteration.

This Certificate Cancels all Previous Issues and is valid until 31 July 1992

Competent Authority Identification Mark:

GB/140/S

UNITED KINGDOM COMPETENT AUTHORITY FOR THE TRANSPORT
31 JUL 1989
OF RADIOACTIVE MATERIALS

Transport Radiological Adviser
Department of Transport
2 Marsham Street
London SW1P 3EB

On behalf of the Secretary of State for Transport and the Department of the Environment for Northern Ireland

Reference GB/193/S

Certificate Issue 5

Certificate of Approval
of Design for Special Form Radioactive Material

Title
Capsule X.540
Drawing Nos and Specification Reference
Assembly 3RC 10642/S Issue E Details 3RC 10636/S Issue B 3RC 10641/S Issue C SFA/IPU/4 Dated 27 March 1980

Radioactive Material	Maximum Activity
Iridium 192	11 TBq (295 Ci)
Cobalt 60	11 TBq (295 Ci)

THIS IS TO CERTIFY that the Secretary of State for Transport being, for the purposes of the Regulations of the International Atomic Energy Agency, the Competent Authority of Great Britain in respect of inland surface transport and of the United Kingdom of Great Britain and Northern Ireland in respect of sea and air transport and the Department of the Environment for Northern Ireland being the Competent Authority of Northern Ireland in respect of inland surface transport, have approved the above-mentioned Special Form Design. Radioactive material manufactured to the above-mentioned design qualifies as special form radioactive material and as such will meet the requirements of the regulations overleaf.

This Certificate of Approval applies only to the design as set out in the above named drawings and specifications submitted by Amersham International plc

In the event of any alteration to the above mentioned drawings and specifications or in any of the facts stated in the application for approval, this certificate will cease to have effect unless the Competent Authority is notified of the alteration and the Competent Authority confirms the certificate notwithstanding the alteratio

This Certificate Cancels all Previous Issues and is valid until 31 December 1992

Competent Authority
Identification Mark:

GB/193/S

UNITED KINGDOM COMPETENT AUTHORITY FOR THE TRANSPORT
26 FEB 1990
OF RADIOACTIVE MATERIALS

Transport Radiological Adviser
Department of Transport
2 Marsham Street
London SW1P 3EB

On behalf of the Secretary of State for Transport and the Department of the Environment for Northern Ireland

TROXLER

Example of an Intra-company "Bill of Lading" for a 3400 Series Gauge

A bill of lading is to be used for gauge transportation by private carrier (i.e. transportation by employee of a company in a privately-owned vehicle). Note that "Class 7" is specified on the "Bill of Lading." This is an international specification for the hazard class of radioactive materials and is not currently a requirement in the United States. We recommend that you complete a bill of lading for each gauge that you possess, and that you type this document on your company letterhead.

Please note that this document is not required to be dated.

BILL OF LADING

Shipper: ABC Paving Company
0000 Road Drive
Anywhere, USA

RQ, RADIOACTIVE MATERIAL, SPECIAL FORM, NOS, UN2974,
CLASS 7, TYPE "A" PACKAGE, CONTAINING:

Cs-137, 8 mCi
Am-241:Be, 40 mCi

RADIOACTIVE YELLOW II LABEL, TI = 0.5

**** EMERGENCY CONTACT: (919) 839-2676 ****

This is to certify that the above-named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

(Signature)
SHIPPER_____

TROXLER

Reference GB/353/S-85
Certificate Issue 2

Certificate of Approval of Design for Special Form Radioactive Material

Title
Capsule X.1218
Drawing Nos and Specification References
Assembly 3A 62269 Issue B Details 3A 62268 Issue C SM/GB/353/S-85 Dated 21 February 1991: QARS/MPW/353/0294 dated 16 Feb 1994
Q.A. Programme Ref: I P Q A M

Radioactive Material	Maximum Activity
Caesium 137	555MBq

THIS IS TO CERTIFY that the Secretary of State for Transport being, for the purposes of the Regulations of the International Atomic Energy Agency, the Competent Authority of Great Britain in respect of inland surface transport and of the United Kingdom of Great Britain and Northern Ireland in respect of sea and air transport and the Department of the Environment for Northern Ireland being the Competent Authority of Northern Ireland in respect of inland surface transport, have approved the above mentioned Special Form Design. Radioactive material manufactured to the above-mentioned design qualifies as special form radioactive material and as such will meet the requirements of the regulations overleaf.

This Certificate of Approval applies only to the design as set out in the above named drawings and specifications submitted by Amersham International plc

In the event of any alteration in the composition of the package, the package design or in any of the facts stated in the application for approval, this certificate will cease to have effect unless the Competent Authority is notified of the alteration and the Competent Authority confirms the certificate notwithstanding the alteration.

This Certificate Cancels all Previous Issues and is valid until 28 February 1997

COMPETENT AUTHORITY
IDENTIFICATION MARK:

GB/353/S-85

UNITED KINGDOM COMPETENT AUTHORITY FOR THE TRANSPORT
02 MAR 1994
OF RADIOACTIVE MATERIALS

D. J. Blackburn

Transport Radiological Adviser
Department of Transport
2 Marsham Street
London SW1P 3EB

On behalf of the Secretary of State for Transport and the Department of the Environment for Northern Ireland

008893

TROXLER

3008 Cornwallis Rd. P.O. Box 12057 Research Triangle Park, North Carolina 27709, U.S.A.

Device - Model # 3430, Serial # 22966

Source(s) - Serial # 754769, Serial # 4718157

Date of Test: 6-30-94

Please print legibly and firmly. This is your return address label.

J & M TESTING LAB INC.
100 Co. Rd. 200 East
CHIPLEY FL 32828

Your Name: JAMES DEEL

Telephone: (904) 638-1506

LEAK TEST ANALYSIS

This certifies that the sample accompanying this form has been analyzed using an approved monitoring method that measures both beta/gamma & alpha contamination; and, that the results of this analysis shows the removable activity to be less than 0.005 microcuries.

7-19-94

TROXLER

3008 Cornwallis Rd. P.O. Box 12057 Research Triangle Park, North Carolina 27709, U.S.A.

Device - Model # 3430, Serial # 22966

Source(s) - Serial # 754769, Serial # 4718157

Date of Test: 1-12-95

Please print legibly and firmly. This is your return address label.

J & M TESTING L[illegible]
100 [illegible]
CHIPLEY, FL

Your Name: JAMES R. DEEL

Telephone: (904) 638-1506

ORIGINAL COPY

LEAK TEST ANALYSIS

This certifies that the sample accompanying this form has been analyzed using an approved monitoring method that measures both beta/gamma & alpha contamination; and, that the results of this analysis shows the removable activity to be less than 0.005 microcuries.

1-23-95

008893

6-10-95
22567-421-SC-0329

QUANTITIES 6/5/95 THRU 6/10/95

WBS NO.	PAY ITEM	QUANTITY
33.19.02	4.2	50 CY
33.19.03	3.1	1561 GAL.
33.19.03	5.4	1000 GAL.

PLS. PUT THIS IN THE RIGHT HANDS

THS.
DICK

6/12/95

FLORIDA DEPARTMENT OF TRANSPORTATION

COARSE AGGREGATE – GRADATION

Amounts Finer than Each Laboratory Sieve (Square Openings), mass percent

Size Number	Nominal Size Square Openings	4" (100-mm)	3½" (90-mm)	3" (75-mm)	2½" (63-mm)	2" (50-mm)	1½" (37.5-mm)	1" (25.0-mm)	¾" (19.0-mm)	½" (12.5-mm)	⅜" (9.5-mm)	No. 4 (4.75-mm)	No. 8 (2.36-mm)	No. 16 (2.0-mm)	No. 16 (1.18-mm)	No. 50 (0.300-mm)	No. 100 (0.150-mm)	No. 200 (0.075-mm)
1	3½" to 1½" (90 to 37.5-mm)	100	90-100		25-60		0-15		0-5									
2	2½" to 1½" (63 to 37.5-mm)			100	90-100	35-70	0-15		0-5									
24	2½" to ¾" (63 to 19.0-mm)			100	90-100		25-60		0-10	0-5								
3	2" to 1" (50 to 25.0-mm)				100	90-100	35-70	0-15		0-5								
357	2" to No. 4 (50 to 4.75-mm)				100	95-100		35-70		10-30		0-5						
4	1½" to ¾" (37.5 to 19.0-mm)					100	90-100	20-55	0-15		0-5							
467	1½" to No. 4 (37.5 to 4.75-mm)					100	95-100		35-70		10-30	0-5						
5	1" to ½" (25.0 to 12.5-mm)						100	90-100	20-55	0-10	0-5	—						
56	1" to ¾" (25.0 to 9.5-mm)						100	90-100	40-85	10-40	0-15	0-5						
57	1" to No. 4 (25.0 to 4.75-mm)						100	95-100		25-60		0-10	0-5					
6	¾" to ⅜" (19.0 to 9.5-mm)							100	90-100	20-55	0-15	0-5						
67	¾" to No. 4 (19.0 to 4.75-mm)							100	90-100		20-55	0-10	0-5					
68	¾" to No. 8 (19.0 to 2.36-mm)							100	90-100		30-65	5-25	0-10		0-5			
7	½" to No. 4 (12.5 to 4.75-mm)								100	90-100	40-70	0-15	0-5					
78	½" to No. 8 (12.5 to 2.36-mm)								100	90-100	40-75	5-25	0-10		0-5			
8	⅜" to No. 8 (9.5 to 2.36-mm)									100	85-100	10-30	0-10		0-5			
89	⅜" to No. 16 (9.5 to 1.18-mm)									100	90-100	20-55	5-30		0-10	0-5		
9	No. 4 to No. 16 (4.75 to 1.18-mm)										100	85-100	10-40		0-10	0-5		
10	No. 4 to No. 0 (4.75-mm)										100	85-100					10-30	
Screenings						100	95-100		65-90		45-75	35-60		25-45		5-25		0-10
Screenings											100	85-100						0-15

GEORGIA DEPARTMENT OF TRANSPORTATION

STANDARD SIZES OF COARSE AGGREGATE

Size No.	(1) Nominal Size Sq. Openings	Amounts Finer Than Each Laboratory Sieve (Square Openings), Percentage by Weight														
		2½"	2"	1½"	1"	¾"	½"	⅜"	No. 4	No. 8	No. 10	No. 16	No. 50	No. 100	No. 200
3	2"-1"	100	90-100	35-70	0-15		0-5								
357	2"-No. 4	100	95-100		35-70		10-30		0-5						
4	1½"-¾"		100	90-100	20-55	0-15		0-5							
467	1½"-No. 4		100	95-100		35-70		10-30	0-5						
5	1"-½"			100	90-100	20-55	0-10	0-5							
56	1"-⅜"			100	90-100	40-75	15-35	0-15	0-5						
57	1"-No. 4			100	95-100		25-60		0-10	0-5					
6	¾"-⅜"				100	90-100	20-55	0-15	0-5						
67	¾"-No. 4				100	90-100		20-55	0-10	0-5					
68	¾"-No. 8				100	90-100		30-65	5-25	0-10		0-5			
7	½"-No. 4					100	90-100	40-70	0-15	0-5					
78	½"-No. 8					100	90-100	40-75	5-25	0-10		0-5			
8	⅜"-No. 8						100	85-100	10-30	0-10		0-5			
89	⅜"-No. 16						100	90-100	20-55	5-15		0-10	0-5		
9	No. 4-No. 16							100	85-100	10-40		0-10	0-5		
1½" Crushed Stone Base				100		60-90					25-45		5-30*		0-15
Backfill Type II				100	80-100					0-5					
*Aggregate for Drainage				100		60-85		10-40		5-25				0-7	
Concrete Sand								100	95-100			45-85	8-30	1-10	0-4
Stab. Aggregate Type I				100	80-100					0-5					
Stab. Aggregate Type II				100							15-45				0-12
#10 Screenings ⅜" Down								100							
#4-10 Screenings 3/16" Down									100						

*#60 Sieve

#57 Stone
Closest

SHIPPER'S DECLARATION FOR DANGEROUS GOODS

Shipper

TROXLER INTERNATIONAL LTD.
3008 CORNWALLIS ROAD
RESEARCH TRIANGLE PARK, NC 27709 USA

Air Waybill No. 008893

Page 1 of 1 Pages

Shipper's Reference Number *(optional)* 47916

Consignee

J & M TESTING LAB INC
STATE ROAD 280 E
PO BOX 100
CHIPLEY FL 32428

Two completed and signed copies of this Declaration must be handed to the operator.

WARNING

Failure to comply in all respects with the applicable Dangerous Goods Regulations may be in breach of the applicable law, subject to legal penalties. This Declaration must not, in any circumstances, be completed and/or signed by a consolidator, a forwarder or an IATA cargo agent.

TRANSPORT DETAILS

This shipment is within the limitations prescribed for: *(delete non-applicable)*

~~PASSENGER, AND CARGO, AIRCRAFT~~	CARGO AIRCRAFT ONLY

Airport of Departure:

Airport of Destination:

Shipment type: *(delete non-applicable)*

~~NON-RADIOACTIVE~~	RADIOACTIVE

NATURE AND QUANTITY OF DANGEROUS GOODS (see sub-Section 8.1 of IATA Dangerous Goods Declaration)

Dangerous Goods Identification							
Proper Shipping Name	Class or Division	UN or ID No.	Packing Group	Subsidiary Risk	Quantity and type of packing	Packing Inst.	Authorization
RQ, RADIOACTIVE MATERIAL SPECIAL FORM, N.O.S.	7	UN 2974			[illegible]	[illegible]	[illegible]

Additional Handling Information

THIS SHIPMENT MAY BE CARRIED ON PASSENGER AIRCRAFT OUTSIDE U.S. JURISDICTION
ICAO EMERGENCY RESPONSE SHEET ATTACHED TO DANGEROUS GOODS DECLARATION
EMERGENCY CONTACT: (01) 1-919-839-2676

I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labelled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Name/Title of Signatory

[illegible] SHIPPING [illegible]

Place and Date

RTP, NC [illegible]

Signature *(see warning above)*

Form 30-065 Printed and Sold by UNIGO 190 Baldwin Ave., Jersey City, NJ 07306 • (800) 631-3098

5.4, 5.5

008893

southern earth sciences, inc.
Consulting Geotechnical
and Testing Engineers

Hall Septic Tank Service, Inc.
3634 Highway 231
Panama City, FL 32404

June 8, 1995
File No.: F-95-241

ATTENTION: Mr. Jimmy Petty

SUBJECT: Grain Size Analysis and Inspection of a Sample of Soil for General Backfill for use by Florida Petroleum at Coastal Systems Station, Bay County, Florida

Dear Mr. Petty:

As requested, Southern Earth Sciences, Inc. has performed a grain size analysis and inspection of a sample of soil to be used as general backfill at Coastal Systems Station in Bay County, Florida. A grain size distribution test report is attached. The gradation of the material is presented below:

SIEVE SIZE	PERCENT PASSING
10	100
20	98.7
40	84.1
60	53.8
100	9.8
200	3.1

Based upon the results of the grain size analysis, the soil sample is classified as SP in accordance with the Unified Soil Classification System. A general description of the soil sample is a tan fine sand with some medium sand.

A visual and olfactory inspection of the soil sample revealed no appreciable amounts of trash, debris, roots or other organic matter, frozen material, and contamination.

NAVY RAC PROJECT 22537
SECRETARY NUMBER
329 - 0011 - 001 - 01
SC/PC SEC SHT SUBMIT

416 Jenks Avenue • P.O. Box 816 • Panama City, Florida 32402-0816 • 904/769-4773 • FAX 904/785-0564

008893

We appreciate the opportunity to be of service to you on this project. Should additional information be required, please advise.

Yours Very Truly,

SOUTHERN EARTH SCIENCES, INC.

Shane George/RTG
Shane George
Junior Engineering Technician

Michael K. Varner/RTG
Michael K. Varner, P.E.
Eng. Reg. No.: 15037 6-8-95
State of Florida

SG/RTG/fp

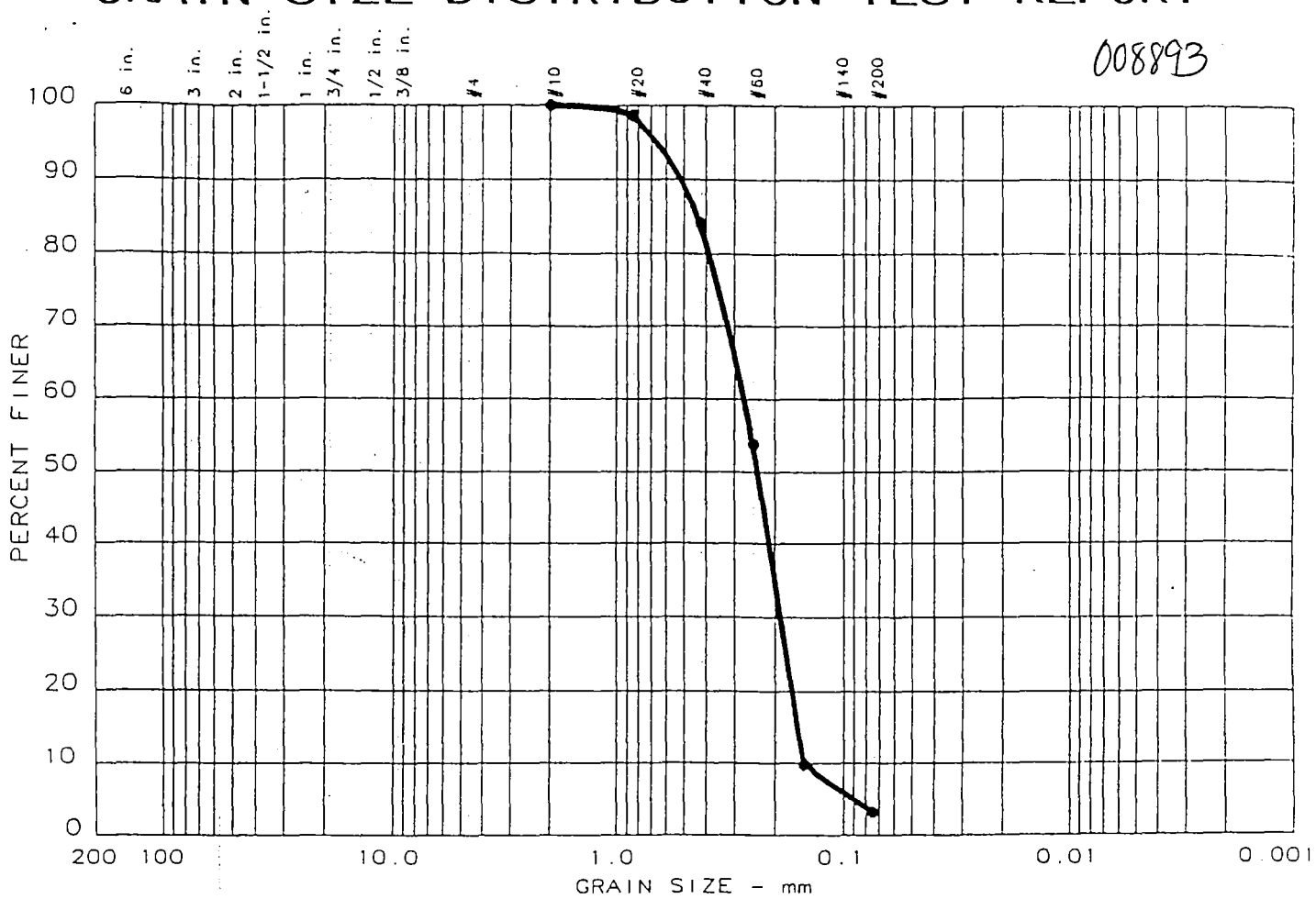
1 Septic Tank

NAVY RAC PROJECT 22567
BECHTEL ID NUMBER:

329	0011	001	01
SC/PO	SEQ	SHT	SUBMTL

GRAIN SIZE DISTRIBUTION TEST REPORT

008893



	Test	% +3"	% GRAVEL	% SAND	% SILT	% CLAY
•	15	0.0	0.0	96.9	3.1	

	LL	PI	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
•			0.44	0.27	0.24	0.189	0.1592	0.1503	0.87	1.8

MATERIAL DESCRIPTION	USCS	AASHTO
• Tan Fine SAND with some medium sand	SP	

Project No.: F-95-241

Project: Halls Septic Tank Backfill Sample

• Location:

Date: 06-08-95

Remarks:

GRAIN SIZE DISTRIBUTION TEST REPORT

SOUTHERN EARTH SCIENCES, INC.

Figure No. 22587

329 - 0011 - 001 - 01

SECTION 4

DESTRUCTION CERTIFICATES

AND

PSSSC LICENSE

(X) ~~005638~~
008893

FLORIDA PETROLEUM SERVICES, INC.

BALANCING NATURE AND INDUSTRY

June 20, 1995

Bechtel Environmental
151 Lafayette Drive
P.O. Box 350
Oak Ridge, TN 37831-0350

ATTN.: Mr. Gaines Smith
Projects Superintendent

Subject: **Bechtel Subcontract No. 22567-421-SC-0329**
Navy Rac, South Division
UST/AvGas Line Removal
CSS, Panama City, Florida;
20,000 Gallon Fiberglass UST's(Tanks No.'s 1 & 3)
Destruction Certification
FPS Project No. I95-777

Dear Mr. Smith:

Please accept this letter as formal certification that the above referenced tanks were properly devaporized and pressure cleaned and are appropriately designated for construction debris landfill. The excavated tanks were monitored for Total Petroleum Hydrocarbons and explosivity. The tanks registered less than 1ppm utilizing a flame ionization OVA and the LEL was reported at less than 1%. Following degassing operations, the tanks were crushed for transport utilizing the on site track hoe. This information is based on FPS field reports generated on site by supervisory personnel.

It should be noted that all closure activities will be performed in compliance with Chapter 62-761.800 of the FAC and API publication 1604 concerning the proper cleaning and disposal of underground storage tanks. This information is also referenced and summarized in FPS's UST Excavation And Disposal Plan, prepared for Bechtel and the Navy, dated April 1995.

RECEIVED
JUN 26 1995
BECHTEL 22567

2078 South Orange Blossom Trail • Apopka, FL 32703 • (407) 886-8050 • FAX (407) 886-6534

(X) ~~005638~~ 008893

If you should need further explanation or require any additional information concerning this matter, please do not hesitate to contact me at your convenience.

Respectfully Submitted,

FLORIDA PETROLEUM SERVICES, INC.

Adam A. Dionna
Vice President

cc: Mr. Tom Conrad, Bechtel
Mr. Dick Geer, Bechtel
Hall Septic Tank Service

(X)

~~005904~~ 008893

FLORIDA PETROLEUM SERVICES, INC.

BALANCING NATURE AND INDUSTRY

Post-It® Fax Note 7671	Date	# of pages ▶
To Terry D.	From Adam	
Co./Dept.	Co.	
Phone #	Phone #	
Fax # 904 784-2654	Fax #	

Discussed previous

June 20, 1995

Bechtel Environmental
151 Lafayette Drive
P.O. Box 350
Oak Ridge, TN 37831-0350

ATTN.: Mr. Gaines Smith
Projects Superintendent

Subject: **Bechtel Subcontract No. 22567-421-SC-0329**
Navy Rac, South Division
UST/AvGas Line Removal
CSS, Panama City, Florida;
20,0000 Gallon Fiberglass UST (Tank No. 2 of 3)
Destruction Certification
FPS Project No. I95-777

Dear Mr. Smith:

Please accept this letter as formal certification that the above referenced tank was properly cleaned and is appropriately designated for construction debris landfill. Due to circumstance during removal, the tank was split and was subsequently removed in sections. Once these sections were removed from the excavation, the materials, resembling larger shards, were pressure cleaned and crushed utilizing the on site track hoe. This information is based on FPS field reports generated on site by supervisory personnel.

It should be noted that all closure activities will be performed in compliance with Chapter 62-761.800 of the FAC and API publication 1604 concerning the proper cleaning and disposal of underground storage tanks. This information is also referenced and summarized in FPS's UST Excavation And Disposal Plan, prepared for Bechtel and the Navy, dated April 1995.

2078 South Orange Blossom Trail • Apopka, FL 32703 • (407) 886-8050 • FAX (407) 886-6584

~~005904~~
008893

If you should need further explanation or require any additional information concerning this matter, please do not hesitate to contact me at your convenience.

Respectfully Submitted,

FLORIDA PETROLEUM SERVICES, INC.

Adam A. Dionna
Vice President

cc: Mr. Dick Geer
Hall Septic Tank Service

0088935.13

AC# 2907969 STATE OF FLORIDA

DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION

CONST INDUSTRY LICENSING BOARD

DATE	LICENSE NO.	BATCH NO.
09/23/94	CB C036541	94006658

THE CERTIFIED BUILDING CONTRACTOR
NAMED BELOW IS CERTIFIED
UNDER THE PROVISIONS OF CHAPTER 489 F.S., FOR THE YEAR
EXPIRING AUG 31, 1996

WOOD, KENNETH L
FLORIDA PETROLEUM SERVICES INC
2078 S ORANGE BLOSSOM TRAIL
P O BOX
APOPKA FL 32703

LAWTON CHILES
GOVERNOR

DISPLAY IN A CONSPICUOUS PLACE

GEORGE STUART, JR.
SECRETARY, D.B.P.R.

AC# 2907997 STATE OF FLORIDA

DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION

CONST INDUSTRY LICENSING BOARD

DATE	LICENSE NO.	BATCH NO.
09/23/94	PC C045046	94006658

THE CERT POLLUTANT STORAGE SYS CONTR
NAMED BELOW IS CERTIFIED
UNDER THE PROVISIONS OF CHAPTER 489 F.S., FOR THE YEAR
EXPIRING AUG 31, 1996

WOOD, KENNETH LEONARD
FLORIDA PETROLEUM SERVICES INC
2078 S ORANGE BLOSSOM TRL
APOPKA FL 32703-7759

LAWTON CHILES
GOVERNOR

DISPLAY IN A CONSPICUOUS PLACE

GEORGE STUART, JR.
SECRETARY, D.B.P.R.

008890

SECTION 5

WELL ABANDONMENT CERTIFICATE

FLORIDA PETROLEUM SERVICES, INC.

008893

November 21, 1995

Bechtel Environmental
151 Lafayette Drive
P.O. Box 350
Oak Ridge, TN 37831-0350

ATTN.: Mr. Tom Conrad
Senior Engineer

Subject: **Bechtel Subcontract No. 22567-421-SC-0329**
Navy Rac, South Division
UST/AvGas Line Removal
CSS, Panama City, Florida;
Well Abandonment Certification
FPS Project No. I95-777

Dear Mr. Conrad:

Please accept this letter as certification that the monitoring well removed within the tank excavation were properly removed and abandoned. The removal was incidental to tank removal activities and is common during UST removals.

In support of our certification, please find attached a certification from the licensed well driller responsible for obtaining the required permit. If you should need further explanation or require any additional information concerning this matter, please do not hesitate to contact me at your convenience.

Respectfully Submitted,
FLORIDA PETROLEUM SERVICES, INC.

Kenneth L. Wood
President

cc: Mr. Rick Palmer

enclosure: Well Driller Certification Letter

2078 South Orange Blossom Trail • Apopka, FL 32703 • (407) 886-8050 • FAX (407) 886-6584

22567-421-0329-0019-001-01

008893

November 19, 1995

Mr. Ken Wood
Florida Petroleum Services, Inc.
2078 South Orange Blossom Trail
Apopka, Florida 32703

RE: Certification of Well Abandonment;
NFWMD Permit No. 9502277
Florida Petroleum Services, Inc. Project #195-777;
Panama City, Florida

Dear Mr. Wood:

Pursuant to Chapter 40A-3 and your request, I have prepared this certification letter in regard to the abandonment of monitor well #6, which was formerly located at the referenced site.

According to the information provided, monitor well #6 was inadvertently destroyed during excavation operations at the subject facility, and the remaining portion of said well was subsequently pulled from the ground. The well annulus was allowed to collapse and the remaining void was filled with natural sediment material.

With this, it is acknowledged that the well was satisfactorily abandoned, and by copy of this letter to the Northwest Florida Water Management District, all affected parties will have been notified.

It is hoped this information will satisfy the requirements of the District and your client, however, if you should have any questions or require any additional information, please do not hesitate to contact me at your convenience.

Respectfully submitted,

Rick A. Palmer
Certified Well Driller
License No. 7024

22567-921-0329-0019-001-01

FLORIDA PETROLEUM SERVICES, INC.

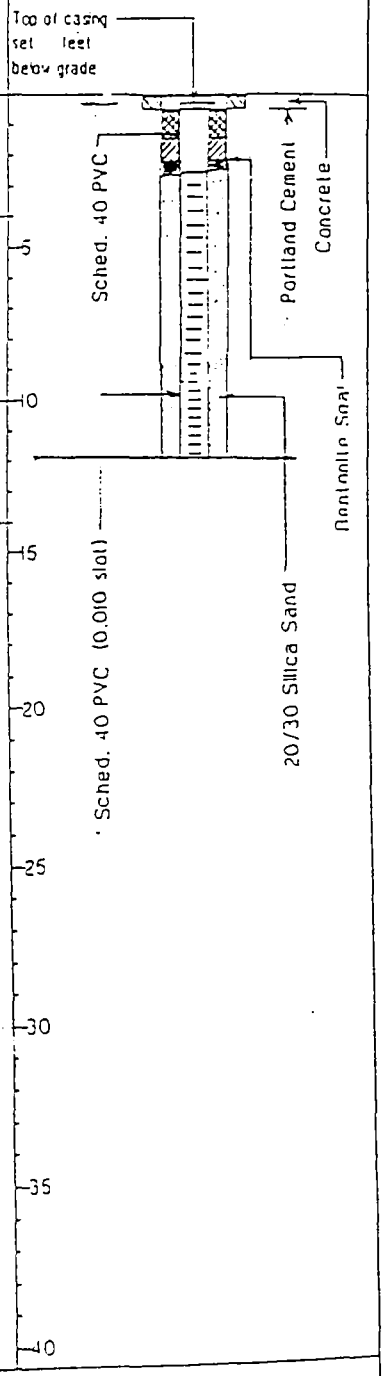
WELL ABANDONMENT LOG / MW 1

008893

Permit #: NA	Drill Date: N/A	Use: UST Compliance
Location: Panama City, FL.		Owner Loc #: CSS Pan.
Owner: U.S. Navy		FPS Loc #: 780
Owner Address: So. Div.	BORING - Depth: 14'	Diameter: N/A
Drilling Method: N/A	CASING - Length: 2'	Type: PVC
Sampling Method: N/A	SCREEN - Length: 10'	
Static Water Level: 6'	WELL - Depth: 12'	

Depth (ft.)	Sample ID	Sample Depth	Blows/6 in.	Hydrocarbon	Graphic Log	Geologic Description
						Asphalt
						Limerock
5						Light Brown Quartz Sand
10						Brown Quartz Sand
15						
20						
25						
30						
35						
40						

Well Diagram



22567-421-0329-0019-001-01

Geologist: N/A | Driller: N/A

FLORIDA PETROLEUM SERVICES, INC.

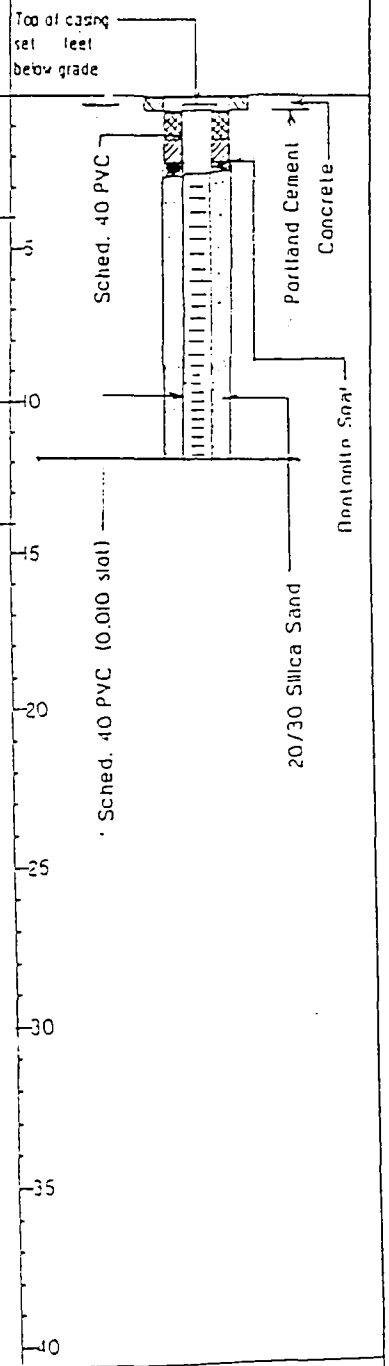
WELL ABANDONMENT LOG / MW 2

008893

Permit #: NA	Drill Date: N/A	Use: UST Compliance
Location: Panama City, FL.		Owner Loc #: CSS Pan.
Owner: U.S. Navy		FPS Loc #: 780
Owner Address: So. Div.	BORING - Depth: 14'	Diameter: N/A
Drilling Method: N/A	CASING - Length: 2'	Type: PVC
Sampling Method: N/A	SCREEN - Length: 10'	
Static Water Level: 6'	WELL - Depth: 12'	

Depth (ft.)	Sample ID	Sample Depth	Blows/6 in.	Hydrocarbon	Graphic Log	Geologic Description
						Asphalt
						Limerock
5						Light Brown Quartz Sand
10						Brown Quartz Sand
15						
20						
25						
30						
35						
40						

Well Diagram



22567-421-0329-0019-001-01

Geologist: N/A | Driller: N/A

NAVY RAC PROJECT, JOB# 22567 ## 421 CCN: 008937
DATE RECEIVED: MAR 5 1996

UPDATE COMMUNICATIONS CONTROL REGISTER
22567 LADEIKE

CCN-Item No. 008937-1 Rec Type BT Comm Date 05-MAR-96 Admin Record N

Subject PAN - TRANSMITTAL OF TITLE PAGE & INDEX TO PROJ COMPLETION REPT SUPPLEMENT FOR SITE 325, CSS PANAMA CITY, FL

From	Org	To	Org	File Loc	Closes CCN	-1
MCNEIL, O.	BEI	DIST	VAR	M		

Comm Reference Published?

Cross Ref (Affected Doc) Field CCN -1
DO#0007 008893

Site Codes: 421
Subject Codes: 1250
Film Reel

TRACKING

Owed By Org. Due Date Closing CCN -1

Owed To Org. Forecast Date Compl Date

Comment/Action

[redacted]

DISTRIBUTION		WA	WO	DISTRIBUTION		WA	WO	DISTRIBUTION		WA	WO
PROGRAM MGR	L. J. TRAUTNER			ACCTNG	E. FARMER/D. GORDON			NAVY SouthDiv:			
ACTING PROG MGR	P. W. TOMICZEK			DATA MGMT	L. J. KELLER				R.J. MEDDICK		
PROJ MGRS {CHS/PEN}	K. ATCHLEY			PROG MGR SCTY	D. MOORE				E.G. BALL		
{CF/JAX}	V. H. BAUER			RCDS MGMT	BJ STOUT/L DEIKE				M.E. HERRON		
{ALB/ATH}	R. J. COHOSE								K. LOTT		
{KW/ORL}	O. N. McNEIL								G.R. TURNER		
{CF/JAX}	L. M. SIMS			J. Mitchell (~~EM~~ FDEP)		1			D. PATRICK		
									G. PEARSON		
SITE SUPERINTENDENTS	G. C. SMITH								S. BERRY		
{KW}	R. AKERS								B. GLOVER		
	W. Hevrdeys								N. UGOLINI	Sent	
{JAX}	E. NAJMOLA										
{ALB/ATH}	W. F. NORTON										
{CF}	F. SEALE							ROICCs	V. Smith	1	
{JAX/CF/MP - PDCC}	T. JENKINS								M. Scott	1	
PROJECT ENGINEER	J. R. MANNING							ABB-ES	M. Dililin	1	
P.E. {CF/JAX}	F. CATER							ENSAFE			
P.E. {ORL}	T. M. CONRAD	1									
P.E. {KW}	R. HOEKSTRA										
ENVIR COMPLIANCE	R. ATWOOD							SUBCONTRACTORS:			
S&H MANAGER	R. W. THOMPSON										
PROCUREMENT	G. M. FRANKLIN								ASSOC ENVIR		
{CF} PROCUREMENT	N. CASHMAN								AES		
CONTRACT ADM MGR	D. S. HEIM								FPS		
ACTING PROJ CTRLS MGR	C. J. PERRY				REFERENCE LIBRARY				GEL		
{CF} PROJ CTRLS	G.S. OSTROSKY				SUBMITTAL FILE						
FIELD QC MGR	J. A. GRISSETT				SENSITIVE FILE				INCHCAPE		
PROJ ADMINISTRATOR	A. THOMPSON				PDCC FILE	1			MEI		

SOUTHERN DIVISION
NAVAL FACILITIES ENGINEERING COMMAND
NORTH CHARLESTON, SOUTH CAROLINA

Navy Rac Project #22567

TRANSMIT DATE 05-MAR-96

TRANSMITTAL FORM

TO: Mr. Nick Ugolini

Attached is a copy of the Title Page and Index which was inadvertently omitted from the "Project Completion Report Supplement for JP-5 Fuel System Closure and Remediation at Site 325, Coastal Systems Station, Panama City, FL." Please insert this into the front of your "Project Completion Report Supplement" notebook.

Thank you.

Navy Rac Project #22567

TRANSMIT DATE 05-MAR-96

TRANSMITTAL FORM

TO: Mr. William V. Smith

Attached is a copy of the Title Page and Index which was inadvertently omitted from the "Project Completion Report Supplement for JP-5 Fuel System Closure and Remediation at Site 325, Coastal Systems Station, Panama City, FL." Please insert this into the front of your "Project Completion Report Supplement" notebook.

Thank you.

Navy Rac Project #22567

PAGE 1 OF 1
TRANSMIT DATE 05-MAR-96

TRANSMITTAL FORM

TO: Mr. Michael Scott

Attached is a copy of the Title Page and Index which was inadvertently omitted from the "Project Completion Report Supplement for JP-5 Fuel System Closure and Remediation at Site 325, Coastal Systems Station, Panama City, FL." Please insert this into the front of your "Project Completion Report Supplement" notebook.

Thank you.

Navy Rac Project #22567

TRANSMIT DATE 05-MAR-96

TRANSMITTAL FORM

TO: Mr. Mark Diblin

Attached is a copy of the Title Page and Index which was inadvertently omitted from the "Project Completion Report Supplement for JP-5 Fuel System Closure and Remediation at Site 325, Coastal Systems Station, Panama City, FL." Please insert this into the front of your "Project Completion Report Supplement" notebook.

Thank you.

Navy Rac Project #22567

TRANSMIT DATE 05-MAR-96

TRANSMITTAL FORM

TO: Mr. John Mitchell

Attached is a copy of the Title Page and Index which was inadvertently omitted from the "Project Completion Report Supplement for JP-5 Fuel System Closure and Remediation at Site 325, Coastal Systems Station, Panama City, FL." Please insert this into the front of your "Project Completion Report Supplement" notebook.

Thank you.

Navy Rac Project #22567

TRANSMIT DATE 05-MAR-96

TRANSMITTAL FORM

TO: Tom Conrad

Attached is a copy of the Title Page and Index which was inadvertently omitted from the "Project Completion Report Supplement for JP-5 Fuel System Closure and Remediation at Site 325, Coastal Systems Station, Panama City, FL." Please insert this into the front of your "Project Completion Report Supplement" notebook.

Thank you.

008937

PROJECT COMPLETION REPORT SUPPLEMENT

FOR

JP-5 FUEL SYSTEM CLOSURE AND REMEDIATION

UNDER DELIVERY ORDER 0007

AT SITE 325

COASTAL SYSTEMS STATION

PANAMA CITY, FLORIDA

Prepared for

DEPARTMENT OF THE NAVY
SOUTHERN DIVISION
NAVAL FACILITIES ENGINEERING COMMAND

Under Contract No. N62467-93-D-0936

By

BECHTEL ENVIRONMENTAL, INC.
OAK RIDGE, TN

FEBRUARY 1996

Bechtel Job No. 22567

008937

INDEX

Section 1	Treatment Certificates and Manifests
Section 2	Confirmatory Sample Results
Section 3	Soil Testing Results
Section 4	Destruction Certificates/PSSSC License
Section 5	Well Abandonment Certificate