United States Army

Fort Monmouth, New Jersey

Underground Storage Tank Closure and Site Investigation Report

Building 1075 Main Post-West Area

COPY NJDEP UST Registration No. 0081533-206

December 1997

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UNDERGROUND STORAGE TANK CLOSURE AND SITE INVESTIGATION REPORT

BUILDING 1075

MAIN POST-WEST AREA NJDEP UST REGISTRATION NO. 0081533-206

DECEMBER 1997

PREPARED FOR:

UNITED STATES ARMY, FORT MONMOUTH, NEW JERSEY DIRECTORATE OF PUBLIC WORKS BUILDING 167 FORT MONMOUTH, NJ 07703

PREPARED BY:

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PROJECT NO. 2429-3080

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EXECUTIVE SUMMARY

UST Closure

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On June 11, 1996, a steel underground storage tank (UST) was closed by removal in accordance with New Jersey Department of Environmental Protection (NJDEP) approved closure procedures at the Main Post-West area of the U.S. Army Fort Monmouth, Fort Monmouth, New Jersey. The UST, NJDEP Registration No. 0081533-206 (Fort Monmouth ID No. 1075), was located east of Building 1075. UST No. 0081533-206 was an 1,000-gallon No. 2 fuel oil UST.

Site Assessment

The site assessment was performed by U.S. Army personnel in accordance with the NJDEP *Technical Requirements for Site Remediation* (N.J.A.C. 7:26E) and the NJDEP *Field Sampling Procedures Manual*. The sampling and laboratory analysis conducted during the site assessment were performed in accordance with Section 7:26E-2.1 of the *Technical Requirements for Site Remediation*. Soils surrounding the tank were screened visually and with air monitoring equipment for evidence of contamination. Following removal, the UST was inspected for corrosion holes. No holes were noted in the UST and no evidence of potentially contaminated soils was observed surrounding the tank. Samples contained non-detectable concentrations of TPHC.

Site Restoration

Following receipt of all post-excavation soil sampling results, the excavation was backfilled to grade with native backfill and topsoil and restored to its original condition.

Conclusions and Recommendations

Based on the post-excavation soil sampling results, soils with TPHC concentrations exceeding the NJDEP soil cleanup criteria for total organic contaminants of 10,000 mg/kg, do not exist in the former location of the UST or associated piping.

No further action is proposed in regard to the closure and site assessment of UST No. 0081533-206 at Building 1075.

1.0 UNDERGROUND STORAGE TANK DECOMMISSIONING ACTIVITIES

1.1 OVERVIEW

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One underground storage tank (UST), New Jersey Department of Environmental Protection (NJDEP) Registration No. 0081533-206, was closed at Building 1075 at the Main Post-West area of U.S. Army Fort Monmouth, Fort Monmouth, New Jersey on June 11, 1996. Refer to site location map on Figure 1. This report presents the results of the Department of Public Works' (DPW) implementation of the UST Decommissioning/Closure Plan approved by the NJDEP. The UST was a steel 1,000-gallon tank containing No. 2 fuel oil.

Decommissioning activities for UST No. 0081533-206 complied with all applicable Federal, State and Local laws and ordinances in effect at the date of decommissioning. These laws included but were not limited to N.J.A.C. 7:14B-1 et seq., N.J.A.C. 5:23-1 et seq., and Occupational Safety and Health Administration (OSHA) 1910.146 & 1910.120. All permits were posted onsite for inspection. The decommissioning activities were conducted by DPW personnel who are registered and certified by the NJDEP for performing UST closure activities. Closure of UST No. 0081533-206 proceeded under the approval of the NJDEP Bureau of Underground Storage Tanks (NJDEP-BUST). The Standard Reporting Form and signed Site Assessment Summary form for UST No. 0081533-206 are included in Appendices A and B, respectively.

Based on inspecting the UST, field screening of subsurface soils, and reviewing analytical results of collected samples, the DPW has concluded that no significant historical discharges are associated with the UST or associated piping.

This UST Closure and Site Investigation Report has been prepared by SMC Environmental Services Group, to assist the U.S. Army DPW in complying with the NJDEP-BUST regulations. The applicable NJDEP-BUST regulations at the date of closure were the *Interim Closure Requirements for Underground Storage Tank Systems* (N.J.A.C. 7:14B-1 et seq. October 1990 and revisions dated November 1, 1991).

This report was prepared using information collected at the time of closure. Section 1 of this UST Closure and Site Investigation Report provides a summary of the UST decommissioning activities. Section 2 of this report describes the site investigation activities. Conclusions and recommendations, including the results of the soil sampling investigation, are presented in the final section of this report.

1.2 SITE DESCRIPTION

Building 1075 is located in the Main Post-West area of the Fort Monmouth Army Base, as shown on Figure 1. UST No. 0081533-206 was located east of Building 1075 and appurtenant steel piping ran in two different directions. One set of piping was approximately sixty-two (62) feet in length and ran from the north end of the excavation to a 550 gallon AST which is situated next to Building 1075. The other set of piping was approximately forty-one (41) feet and ran from the south end of the excavation to the mechanical room next to the Emergency Room entrance. A site map is provided on Figure 2.

1.2.1 Geological/Hydrogeological Setting

The following is a description of the geological/hydrogeological setting of the area surrounding Building 1075. Included is a description of the regional geology of the area surrounding Fort Monmouth as well as descriptions of the local geology and hydrogeology of the Main Post area.

Regional Geology

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Monmouth County lies within the New Jersey Section of the Atlantic Coastal Plain physiographic province. The Main Post, Charles Wood, and the Evans areas are located in what may be referred to as the Outer Coastal Plain subprovince, or the Outer Lowlands.

In general, New Jersey Coastal Plain formations consist of a seaward-dipping wedge of unconsolidated deposits of clay, silt, and gravel. These formations typically strike northeast-southwest with a dip ranging from 10 to 60 feet per mile and were deposited on Precambrian and lower Paleozoic rocks (Zapecza, 1989). These sediments, predominantly derived from deltaic, shallow marine, and continental shelf environments, date from Cretaceous through the Quaternary Periods. The mineralogy ranges from quartz to glauconite.

The formations record several major transgressive/regressive cycles and contain units which are generally thicker to the southeast and reflect a deeper water environment. Over 20 regional geologic units are present within the sediments of the Coastal Plain. Regressive, upward coarsening deposits are usually aquifers (e.g., Englishtown and Kirkwood Formations, and the Cohansey Sand) while the transgressive deposits act as confining units (e.g., the Merchantville, Marshalltown, and Navesink Formations). The individual thicknesses for these units vary greatly (i.e., from several feet to several hundred feet). The Coastal Plain deposits thicken to the southeast from the Fall Line to greater than 6,500 feet in Cape May County (Brown and Zapecza, 1990).

Local Geology

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Based on the regional geologic map (Jablonski, 1968), the Cretaceous age Red Bank and Tinton Sands outcrop at the Main Post area. The Red Bank sand conformably overlies the Navesink Formation and dips to the southeast at 35 feet per mile. The upper member (Shrewsbury) of the Red Bank sand is a yellowish-gray to reddish brown clayey, medium-to-coarse-grained sand that contains abundant rock fragments, minor mica and glauconite (Jablonski). The lower member (Sandy Hook) is a dark gray to black, medium-to-fine grained sand with abundant clay, mica, and glauconite.

The Tinton sand conformably overlies the Red Bank Sand and ranges from a clayey medium to very coarse grained feldspathic quartz and glauconite sand to a glauconitic coarse sand. The color varies from dark yellowish orange or light brown to moderate brown and from light olive to grayish olive. Glauconite may constitute 60 to 80 percent of the sand fraction in the upper part of the unit (Minard, 1969). The upper part of the Tinton is often highly oxidized and iron oxide encrusted (Minard).

Hydrogeology

The water table aquifer in the Main Post area is identified as part of the "composite confining units", or minor aquifers. The minor aquifers include the Navesink formation, Red Bank Sand, Tinton Sand, Hornerstown Sand, Vincentown Formation, Manasquan Formation, Shark River Formation, Piney Point Formation, and the basal clay of the Kirkwood Formation.

Based on records of wells drilled in the Main Post area, water is typically encountered at depths of 2 to 9 feet below ground surface (bgs). According to Jablonski, wells drilled in the Red Bank and Tinton Sands may produce 2 to 25 gallons per minute (gpm). Some well owners have reported acidic water that requires treatment to remove iron.

Due to the proximity of the Atlantic Ocean to Fort Monmouth, shallow groundwater may be tidally influenced and may flow toward creeks and brooks as the tide goes out, and away from creeks and brooks as the tide comes in. However, an abundance of clay lenses and sand deposits were noted in borings installed throughout Fort Monmouth. Therefore, the direction of shallow groundwater should be determined on a case-by-case basis.

Shallow groundwater is locally influenced within the Main Post area by the following factors:

- tidal influence (based on proximity to the Atlantic Ocean, rivers, and tributaries)
- topography
- nature of the fill material within the Main Post area
- presence of clay and silt lenses in the natural overburden deposits
- local groundwater recharge areas (i.e., streams, lakes)

Due to the fluvial nature of the overburden deposits (i.e., sand and clay lenses), shallow groundwater flow direction is best determined on a case-by-case basis. This is consistent with lithologies observed in borings installed within the Main Post area, which primarily consisted of fine-to-medium grained sands, with occasional lenses or laminations of gravel silt and/or clay.

Building 1075 located approximately 600 feet southeast of Husky Brook Lake, the nearest water body. Based on the Main Post topography, the groundwater flow in the area of Building 1075 is anticipated to be to the northeast.

1.3 HEALTH AND SAFETY

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Before, during, and after all decommissioning activities, hazards at the work site which may have posed a threat to the Health and Safety of all personnel who were involved with, or were affected by, the decommissioning of the UST system were minimized. All areas, which posed, or may have been suspected to pose a vapor hazard were monitored by a qualified individual utilizing an organic vapor analyzer (OVA). The individual ascertained if the area was properly vented to render the area safe, as defined by OSHA.

1.4 REMOVAL OF UNDERGROUND STORAGE TANK

1.4.1 General Procedures

- All underground obstructions (utilities, etc.) were identified by the contractor performing the closure prior to excavation activities.
- All activities were carried out with the greatest regard to safety and health and the safeguarding of the environment.
- All excavated soils were visually examined and screened with an OVA for evidence of contamination. Potentially contaminated soils were identified and logged during closure activities.
- Surface materials (i.e., asphalt, concrete, etc.) were excavated and staged separately from all soil and recycled in accordance with all applicable regulations and laws.
- A Sub-Surface Evaluator from the DPW was present during all site assessment activities.

1.4.2 Underground Storage Tank Excavation and Cleaning

Prior to UST decommissioning activities, surficial soil was removed to expose the UST and associated piping. All free product present in the piping was drained into the UST, and the UST was purged to remove vapors prior to cutting and removal of the piping. After removal of the associated piping, a hole was made in the UST to allow for proper cleaning. The UST was completely emptied of all liquids prior to removal from the ground. Approximately 35 gallons of liquid from the UST and its associated piping were transported to the Fort Monmouth waste oil holding facility. Refer to Appendix C for a copy of the waste manifest.

The UST was cleaned prior to removal from the excavation in accordance with the NJDEP-BUST regulations. After the UST was removed from the excavation, it was staged on polyethylene sheeting and examined for holes. No holes or punctures were observed during the inspection by the Sub-Surface Evaluator. Soils surrounding the UST were screened visually and with an OVA for evidence of contamination. No evidence of contamination was observed. Soil screening and pressure tests were also performed along the two different piping runs associated with the UST closure. Although one piping run failed a pressure test, no contamination was noted anywhere along the piping length. See Figure 3 for a cross-sectional view of the excavated area.

1.5 UNDERGROUND STORAGE TANK TRANSPORTATION AND DISPOSAL

The tank was transported to Mazza and Sons, Inc., Recycling Division. The UST disposal certificate is included as Appendix D. The transportation of the UST was in compliance with all applicable regulations and laws. Refer to Appendix F for photographs of the UST.

The UST was labeled prior to transport with the following information:

- Site of origin
- Contact person
- NJDEP UST Facility ID number
- Former contents
- Destination site
- Date

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1.6 MANAGEMENT OF EXCAVATED SOILS

Based on OVA air monitoring and TPHC analysis results from the post-excavation soil samples, no soils exhibited signs of contamination. Therefore, the excavated soils were used as backfill following removal of the UST.

2.0 SITE INVESTIGATION ACTIVITIES

2.1 OVERVIEW

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The Site Investigation was managed and carried out by U.S. Army DPW personnel. All analyses were performed and reported by U.S. Army Fort Monmouth Environmental Laboratory, a NJDEP-certified testing laboratory. All sampling was performed under the direct supervision of a NJDEP Certified Sub-Surface Evaluator according to the methods described in the NJDEP *Field Sampling Procedures Manual* (1992). Sampling frequency and parameters analyzed complied with the NJDEP-BUST document *Interim Closure Requirements for Underground Storage Tank Systems* (October 1990 and revisions dated November 1, 1991) which was the applicable regulation at the date of the closure. All records of the Site Investigation activities are maintained by the Fort Monmouth DPW Environmental Office.

The following Parties participated in Closure and Site Investigation Activities:

- Subsurface Evaluator: Eugene W. Lesinski Employer: U.S. Army, Fort Monmouth Phone Number: (908) 532-0989
 NJDEP Certification No.: 0014537
- Analytical Laboratory: U.S. Army Fort Monmouth Environmental Laboratory Contact Person: Brian K. McKee and Daniel K. Wright Phone Number: (908) 532-4359
 NJDEP Company Certification No.: 13461

2.2 FIELD SCREENING/MONITORING

Field screening was performed by a NJDEP Certified Sub-Surface Evaluator using an OVA and visual observations to identify potentially contaminated material. Soil excavated from around the tank and appurtenant piping did not exhibit any evidence of potential contamination.

2.3 SOIL SAMPLING

Soil samples were collected on two separate occasions from the excavation. The first sampling event was June 11 and 12, 1996 and the second event was July 9, 1996. On June 11, 1996, following the removal of the UST, post-excavation soil samples A, B, C, D, and DUP A were collected from a total of four (4) locations at the UST excavation. Samples A, B, and DUP A were collected along the centerline of the excavation floor at a depth of 9.0 feet bgs. Sidewall samples C and D were collected at a depth of 8.5 feet bgs. All samples were analyzed for total petroleum hydrocarbons (TPHC) and total solids.

On June 12, 1996, the piping trench which connected to the 550 gallon AST was uncovered and soil samples E, F, G, H, and I were collected at a depth of 4.0 feet bgs. The entire piping run was 62 feet in length. Sample E was collected along the former piping trench, approximately five (5) feet from the northern side of the excavation. Sample F was collected 12 feet from the excavation at the location of a former pipe coupling. Sample G was collected 22 feet from the excavation. Sample H was collected 34 feet from the excavation at the location of a former pipe coupling. Sample I was collected 48 feet from the excavation at the location of a former 90 degree elbow. All samples were analyzed for TPHC and total solids.

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On July 9, 1996, approximately 41 feet of piping were uncovered on the southern side of the excavation. Soil samples A, B, C, and DUP A were collected from the piping run which upon inspection, was determined to be unused. Samples A and DUP A were collected at a depth of 3.0 feet bgs. Samples B and C were collected at a depth of 2.5 feet bgs. All samples were analyzed for TPHC and total solids.

U.S. Army personnel in accordance with the NJDEP Technical Requirements and the NJDEP Field Sampling Procedures Manual performed the site assessment. A summary of sampling activities including parameters analyzed is provided in Table 1. The post-excavation soil samples were collected using NJDEP *Field Sampling Procedures Manual* (1992) standard sampling procedures. Following soil sampling activities, the samples were chilled and delivered to U.S. Army Fort Monmouth Environmental Laboratory located in Fort Monmouth, New Jersey, for analysis.

3.0 CONCLUSIONS AND RECOMMENDATIONS

3.1 SOIL SAMPLING RESULTS

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To evaluate soil conditions following removal of the UST and associated piping, post-excavation soil samples were collected on two separate occasions (June 11 and 12, and July 9, 1996) from a total of twelve (12) locations. All samples were analyzed for TPHC and total solids. The post-excavation sampling results were compared to the NJDEP residential direct contact total organic contaminants soil cleanup criteria of 10,000 mg/kg (N.J.A.C. 7:26D and revisions dated February 3, 1994). A summary of the analytical results and comparison to the NJDEP soil cleanup criteria is provided in Table 2 and the soil sampling locations are shown on Figure 4. The analytical data package is provided in Appendix E.

All post-excavation soil samples collected on June 11 and 12, and July 9, 1996, from the UST excavation and from below piping associated with the UST contained concentrations of TPHC below the NJDEP soil cleanup criteria. Samples contained non-detectable levels of TPHC.

3.2 CONCLUSIONS AND RECOMMENDATIONS

The analytical results for all post-excavation soil samples collected from the UST closure excavation at Building 1075 were below the NJDEP soil cleanup criteria for total organic contaminants.

Based on the post-excavation sampling results, soils with TPHC concentrations exceeding the NJDEP soil cleanup criteria for total organic contaminants of 10,000 mg/kg, do not exist in the former location of the UST or associated piping.

No further action is proposed in regard to the closure and site assessment of UST No. 0081533-206 at Building 1075.

TABLES

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TABLE 1

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SUMMARY OF POST-EXCAVATION SAMPLING ACTIVITIES BUILDING 1075, MAIN POST-WEST AREA FORT MONMOUTH, NEW JERSEY

Sample ID	Date of Collection	Date Analysis Started	Matrix	Sample Type	Analytical Parameters*	NJDEP Method
Α	6/11/96	6/14/96	Soil	Post-Excavation	TPHC	OQA - <u>Q</u> AM - 025
В	6/11/96	6/14/96	Soil	Post-Excavation	TPHC	OQA - QAM - 025
С	6/11/96	6/14/96	Soil	Post-Excavation	TPHC	OQA - QAM - 025
D	6/11/96	6/14/96	Soil	Post-Excavation	TPHC	OQA - QAM - 025
Ε	6/12/96	6/14/96	Soil	Post-Excavation	TPHC	OQA - QAM - 025
F	6/12/96	6/14/96	Soil	Post-Excavation	TPHC	OQA - QAM - 025
G	6/12/96	6/14/96	Soil	Post-Excavation	TPHC	OQA - QAM - 025
Н	6/12/96	6/14/96	Soil	Post-Excavation	TPHC	OQA - QAM - 025
Ι	6/12/96	6/14/96	Soil	Post-Excavation	TPHC	OQA - QAM - 025
J (DUP A)	6/11/96	6/14/96	Soil	Post-Excavation	TPHC	OQA - QAM - 025
Α	7/09/96	7/12/96	Soil	Post-Excavation	TPHC	OQA - QAM - 025
В	7/09/96	7/12/96	Soil	Post-Excavation	TPHC	OQA - QAM - 025
С	7/09/96	7/12/96	Soil	Post-Excavation	TPHC	OQA - QAM - 025
DUP A	7/09/96	7/12/96	Soil	Post-Excavation	TPHC	OQA - QAM - 025

Note:

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Page 1 of 1

TPHC Total Petroleum Hydrocarbons

TABLE 2

POST-EXCAVATION SOIL SAMPLING RESULTS BUILDING 1075, MAIN POST-WEST AREA FORT MONMOUTH, NEW JERSEY

Page 1 of 2

Sample ID/ Depth	Sample Laboratory ID	Sample Date	Analysis Date	Analytical Parameters	Method Detection Limit (mg/kg)	Compound of Concern	Results (mg/kg) *	NJDEP Soil Cleanup Criteria ** (mg/kg)	Exceeds Cleanup Criteria
A/9.0'	2089.1	6/11/96	6/14/96	Total Solid			89.2 %		
				TPHC	200	yes	ND	10,000	No
B/9.0'	2089.2	6/11/96	6/14/96	Total Solid			72.4 %		
				TPHC	200	yes	ND	10,000	No
C/8.5'	2089.3	6/11/96	6/14/96	Total Solid			88.5 %		
				TPHC	200	yes	ND	10,000	No
D/8.5'	2089.4	6/11/96	6/14/96	Total Solid			89.9 %		
				TPHC	200	yes	ND	10,000	No
E/4.0'	2089.5	6/12/96	6/14/96	Total Solid			87.5 %		
				TPHC	200	yes	ND	10,000	No
F/4.0'	2089.6	6/12/96	6/14/96	Total Solid			78.9 %		
				TPHC	200	yes	ND	10,000	No
G/4.0'	2089.7	6/12/96	6/14/96	Total Solid			89.1 %		
				TPHC	200	yes	ND	10,000	No
H/4.0'	2089.8	6/12/96	6/14/96	Total Solid			90. %		
				TPHC	200	yes	ND	10,000	No
I/4.0'	2089.9	6/12/96	6/14/96	Total Solid			89.5 %		
				TPHC	200	yes	ND	10,000	No
J(DUP A)/9.0'	2089.10	6/11/96	6/14/96	Total Solid			89.1 %		
				TPHC	200	yes	ND	10,000	No

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Note:

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Total Solid results are expressed as a percentage. NJDEP Residential Direct Contact soil cleanup criteria for total organics **

Not detected above stated method detection limit ND

TPHC Total Petroleum Hydrocarbons

Not applicable --

TABLE 2 (C'ntd)

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POST-EXCAVATION SOIL SAMPLING RESULTS BUILDING 1075, MAIN POST-WEST AREA FORT MONMOUTH, NEW JERSEY

Page 2 of 2

Sample ID/ Depth	Sample Laboratory ID	Sample Date	Analysis Date	Analytical Parameters	Method Detection Limit	Compound of Concern	Results (mg/kg) *	NJDEP Soil Cleanup Criteria **	Exceeds Cleanup Criteria
					(mg/kg)			(mg/kg)	
A/3.0'	2114.1	7/09/96	7/12/96	Total Solid			91.7 %		
				TPHC	200	yes	ND	10,000	No
B/2.5'	2114.2	7/09/96	7/12/96	Total Solid			93.9 %		
				TPHC	200	yes	ND	10,000	No
C/2.5'	2114.3	7/09/96	7/12/96	Total Solid			91.4 %		
				TPHC	200	yes	ND	10,000	No
DUP A/3.0'	2114.4	7/09/96	7/12/96	Total Solid			92.3 %		
				TPHC	200	yes	ND	10,000	No

Note:

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Total Solid results are expressed as a percentage. NJDEP Residential Direct Contact soil cleanup criteria for total organics **

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Not detected above stated method detection limit ND

TPHC Total Petroleum Hydrocarbons

Not Applicable ---

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REPORTS FLOOR AND A DESCRIPTION

APPENDIX A

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NJDEP-BUST STANDARD REPORTING FORM

Division of Responsible Party Site Remediation CX 028 Division of Responsible Party Site Remediation CX 028 ATTN: UST Program (609) 984-3156 Data Ref di Arth. ATTN: UST Program (609) 984-3156 Division of Responsibility Party Site Remediation (509) 984-3156 STANDARD REPORTING FORM (609) 984-3156 Sale of Transfer Substantial Modification (509) 984-3156 Standard Report Closure (Abandonment or Removal) Sale of Transfer Substantial Modification (700) 700 (700) Change In Service Substantial Modification (700) 700 (700) Change In Service Substantial Modification (700) 700 (700) Change In Service Substantial Modification (700) 700 (700) 700 (700) Change In Service Substantial Modification (700) 700 (700) 70	State Department of Enviro	of New Jersey Inmental Protection and Energy	For State Use Only
Attr. Attr. Attr. No. Attr. No. Attr. No. Attr. No. Attr. No. Attr. No. StanDARD REPORTING FORM for reporting activities at an UST facility. Sale or Transfer Cleasure (Abancommer to Removal) Substantial Modification Temporary Cosure Sale or Transfer Change in Service Sale or Transfer Change in Service Sale or Transfer Change in Service Address Change Chip (More than one tank can be listed per activity) **** NOTE ************************************	Division of Response	nsible Party Site Remediation	Date Rec'd.
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(DUB) SDATING STANDARD REPORTING FORM for reporting activities at an UST facility:	ATTN	N: UST Program	
STANDARD REFORTING FORM for reporting activities at an UST facility:	b)	303) 364-3130	· · · · · · · · · · · · · · · · · · ·
General Facility Information Changes Sole or Transfer Gosure (Abandonment or Removal) Temporary Closure Change in Service Change in Service Gameral Facility Check ONLY One Type of Activity - Complete Form For That Activity (More than one tank can be listed per activity) "*** NOTE *** ALL NEW tank Installations at existing registered facilities must submit a Registration Questionnaire for the new tanks. Answer questions 1 through 5 and others as applicable. Company name and address (as 8 U.S. ARAY - FORT MONMOUTH appears on registration questionnaire): DPU - BUILD (MG 1773 TOTT 007703 ATTTN 2 EUGGEUE'W. LESINSK/ 2. Facility name and location (f different from above): GENEE LESINSK/ 3. Contact person for this activity: UST	ST for re	TANDARD REPORTING FORM porting activities at an UST facility:	÷.
	General Facility Informa	lion Changes Sale or	Transfer
		or Removal) Substat	ntial Modification
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	8	ibandonment p	er N.J.A.C. 7:148-	9.1 (d).		· ·		
	b. Ø	K Removal 1	Date: <u>(0</u> 7_	1_76	Case No.		- 2	
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APPENDIX B

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SITE ASSESSMENT SUMMARY

FOR STATE USE ONLY UST# Date Rec'd TMS # Staff

STATE OF NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION Division of Responsible Party Site Remediation CN 029 TRENTON, N.J. 08625-0028 Tel. # 609-984-3156 Fax.# 609-292-5604

Karl J. Delaney Director

UNDERGROUND STORAGE TANK SITE ASSESSMENT SUMMARY

Under the provisions of the Underground Storage of Hazardous Substances Act in accordance with N.J.A.C. 7:14B

This Summary form shall be used by all owners and operators of Underground Storage Tank Systems (USTS) who have either reported a release and are subject to the site assessment requirements of N.J.A.C. 7:14B-8.2 or who have closed USTS pursuant to N.J.A.C. 7:14B-9.1 et seq. and are subject to the site assessment requirements of N.J.A.C. 7:14B-9.2 and 9.3.

INSTRUCTIONS:

- Please print legibly or type.
- Fill in all applicable blanks. This form will require various <u>attachments</u> in order to complete the Summary. The technical guidance document, <u>Interim Closure Requirements for USTs</u>, explains the regulatory (and technical) requirements for closure and the <u>Scope of Work. Investigation and Corrective Action Requirements for Discharges from Underground Storage Tanks and Piping Systems</u> explains the regulatory (and technical) requirements for corrective action.
- Return one original of the form and all required attachments to the above address.
- Attach a scaled site diagram of the subject facility which shows the information specified in Item IV B of this form.
- Explain any "No" or "N/A" response on a separate sheet.

Date of Submission:

1. FACILITY NAME AND ADDRESS:

Building No. 1075 UST No. 81533-206

U.S. Army Fort Monmouth New Jersey		
Directorate of Engineering and Housing	Building 167	
Fort Monmouth New Jersey 07703	County Monmouth	
Telephone No. 908-532-6224	· · · · · · · · · · · · · · · · · · ·	

OWNER'S NAME AND ADDRESS, if different from above.

Telephone No.

Scott A. Weiner Commisioner

UST-014 2/91

0192477-1 Facility Registration # UST-014 2/91

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II. DISCHARGE REPORTING REQUIREMENTS

A. Was contamination found ?Yes (Note: All discharges must be reported to the En	<u>X</u> No vironmental	If Yes, Ca Action Hotli	ase No ine (609) 293	2-7172)	
B. The substance(s) discharged was (were)	N/A				
C. Have any vapor hazards been mitigated?	Yes	No	<u> </u>	N/A	
	~				

DECOMMISSIONING OF TANK SYSTEMS Closure approval No. <u>NJDEP "Blanket Closure"</u>

The site assessment requirements associated with <u>tank decommissioning</u> are explained in the Technical Guidance Document, Interim Closure Requirements for UST's, Section V. A.-D. <u>Attach</u> complete documentation of the methods used and the results obtained for each of the steps of <u>tank decommissioning</u> used. Please include a <u>site</u> map which shows the locations of all samples and borings, the location of all tanks and piping runs at the facility at the beginning of the tank closure operation and annotated to differentiate the status <u>of all tanks and piping</u> (e.g., removed, abandoned, temporarily closed, etc.). The same site map can be used to document other parts of the site assessment requirements, if it is properly and legibly annotated.

IV. SITE ASSESSMENT REQUIREMENTS

A. Excavated Soil

Any evidence of contamination in excavated soil will require that the soil be classified as either Hazardous Waste or Non-Hazardous Waste. Please include all required documentation of compliance with the requirements for handling contaminated excavated soil (if any was present) as explained in the technical guidance documents for closure and corrective action. Describe amount of soil removed, its classification and disposal location.

B. Scaled Site Diagrams

1. Scaled site diagrams must be attached which include the following information:

- a. North arrow and scale
- b. The locations of the ground water monitoring wells
- c. Location and depth of each soil sample and boring
- d. All major surface and subsurface structures and utilities
- e. Approximate property boundaries
- f. All existing or closed underground storage tank systems, including appurtenant piping
- g. A cross-sectional view indicating depth of tank, stratigraphy and location of water table
- h. Locations of surface water bodies
- C. Soil samples and borings (check appropriate answer)
 - 1. Were soil samples taken from the excavation as prescribed? X_Yes _____ No _____ N/A
 - 2. Were soil borings taken at the tank system closure site as prescribed? _____Yes ____No __X_ N/A
 - 3. Attach the analytical results in tabular form and include the following information about each sample
 - a. Customer sample number (keyed to the site map)
 - b. The depth of the soil sample
 - c. Soil boring logs
 - d. Method detection limit of the method used
 - e. QA/QC Information as required

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D. Ground Water Monitoring

1. Number of ground water monitoring wells installed _____0

- 2. Attach the analytical results of the ground water samples in tabular form. Include the following information for each sample from each well:
 - a. Site diagram number for each well installed
 - b. Depth of ground water surface
 - c. Depth of screened interval
 - d. Method detection limit of the method used
 - e. Well logs
 - f. Well permit numbers
 - g. QA/QC Information as required

V. SOIL CONTAMINATION

- A. Was soil contamination found? _____Yes __X__ No If "Yes", please answer Question B-E If "No", please answer Question B
- B. The highest soil contamination still remaining in the ground has been determined to be:
 - 1.
 N/A
 ppb total BTEX,
 N/A
 ppb total non-targeted VOC

 2.
 N/A
 ppb total B/N,
 N/A
 ppb total non-targeted B/N
 - 3. ND ppm TPHC
 - 4. <u>N/A</u> ppb <u>N/A</u> (for non-petroleum substance)
- C. Remediation of free product contaminated soils
 - 1. All free product contaminated soil on the property boundaries and above the water table are believed to have been removed from the subsurface. _____ Yes _____ No
- 2. Free product contaminated soils are suspected to exist below the water table. _____ Yes _____ No
- 3. Free product contaminated soils are suspected to exist off the property boundaries. _____Yes _____No
- D. Was the vertical and horizontal extent of contamination determined? _____Yes _____No _____N/A
- E. Does soil contamination intersect ground water? _____Yes _____No _____N/A

VI. GROUND WATER CONTAMINATION

- A. Was ground water contamination found? _____ Yes ____ No If "Yes", please answer Questions B-G. If "No", please answer only Question B.
- B. The highest ground water contamination at any 1 sampling location and at any 1 sampling event to date has been determined to be: N/A

1	ppb total BTEX	ppb	total non-targe	ted VOC
2	ppb total B/N	p	ob total non-targ	geted B/N
3	ppb total MTBE	opb	total TBA	-
4	ppb	(fo	or non-petroleu	m substance)
5.	greatest thickness of separate phase product found _			
6.	separate phase product has been delineated	Yes	No	N/A

UST-014 2/91

VIII. <u>TANK DECOMMISSIONING CERTIFICATION</u> [person performing tank decommissioning portion of closure plan - N.J.A.C. 7:14B-9.5(a)4]

"I certify under penalty of law that tank decommissioning activities were performed in compliance with N.J.A.C. 7:14B-9.2(b)3. I am aware that there are significant penalties for submitting false, inaccurate, or incomplete information, including fines and/or imprisonment."

NAME (Print or Type) SAME AS SITE ASSESSMENT SIGNATURE

COMPANY NAME

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(Peformer of Tank Decommissioning)

DATE _____

IX. CERTIFICATIONS BY THE RESPONSIBLE PARTY(IES) OF THE FACILITIES

A. The following certification shall be signed by the highest ranking individual with overall responsibility for that facility [N.J.A.C. 7:14B-2.3(c)1I].

"I certify under penalty of law that the information provided in this document is true, accurate, and complete. I am aware that there are significant penalties for submitting false, inaccurate, or incomplete information, including fines and/or imprisonment."

NAME (Print or Type)	James Ott	nus Olt
COMPANY NAME	U.S. Army Fort Monmouth	3/25/98_

B. The following certification shall be signed as follows [according to the requirements of N.J.A.C. 7:14B-2.3(C)2I]:

1. For a corporation, by a principal executive officer of at least the level of vice president.

- 2. For a partnership or sole proprietorship, by a general partner or the proprietor, respectively; or
- 3. For a municipality, State, Federal or other public agency by either the principal executive officer or ranking elected official.
- 4. In cases where the highest ranking corporate partnership. governmental officer or official at the facility as required in A above is the same person as the official required to certify in B, only the certification in A need to be made. In all other cases, the certifications of A and B shall be made.

"I certify under penalty of law that I have personally examined and am familiar with the information submitted in this application and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false, inaccurate, or incomplete information, including fines and/or imprisonment."

NAME (Print or Type)	_SIGNATURE
COMPANY NAME	DATE

i i	<u>'S ARMY, SELFM-PW-</u>	
i∟ ;-1	DAILY UST SUBSURFACE REMOVAL LOG	
Γ - 1 	BLDG.#: 1075 REG.#: 008/533 - 246 CLOSURE#: NA DATE: 6-1/96 TOA: */100 TOD: 1500 GOV. SSE: LES(NSK/ NJDEP CERT.#: 0014537 REMOVAL CONTRACTOR: SHE TWO.TVS CLOSURE SUPERVISOR: 6. DEMONTMUC NJDEP CERT.#: WEATHER: furthy Cloudy - 85°F Humid)
ir i	ACTIVITY	YES/ NO
L ris	THE SUPERVISOR (CLOSURE CERT.) WAS ON-SITE DURING ALL CLOSURE RELATED ACTIVITIES	Y
1.1	THE SSE WAS ON-SITE DURING UST REMOVAL AND SITE SCREENING AND SAMPLING ACTIVITIES	Ý
L	ALL ON-SITE PERSONNEL HAD TRAINING IAW ALL SAFETY REQUIREMENTS (E.G. 29CFR)	Ý
г 1	A CONFINED ENTRY PERMIT WAS COMPLETED AND POSTED ON-SITE BY THE CONTRACTOR	У
سب	THE UST WAS PLACED ONTO PLASTIC, SCRAPED OFF, INSPECTED FOR HOLES AND PHOTOGRAPHED	Y.
i n	A DISCHARGE WAS REPORTED TO THE NJDEP (609-292-7172), CASE#	$\overline{\mathcal{N}}$
i 11	PHOTOS HAVE UST#, BLDG. #, DATE, TIME, NAME OF SSE AND DESCR. WRITTEN ON BACK	Y
E H	GROUNDWATER WAS ENCOUNTERED AT FEET BG, A SHEEN (WAS/WAS NOT) OBSERVED ON GW	NA
L	IF OVA/Hnu WAS USED: WAS IT CAL. AND FOUND TO BE OPERATIONAL (cal. data on COC)	×
"`(IF SAMPLES WERE TAKEN: COC, SCALED SITE MAP (VERT. SOIL HORIZONS AND PLOT PLAN)	\mathcal{A}
ы.ы	ALL SAMPLE COLLECTION ACTIVITIES WERE AS DESCRIBED IN THE NJDEP FSPM, 1992	Ý
Г "I	ALL SAMPLING WAS BIASED TOWARD HIGHEST OVA/FID RECORDED SITES IAW 7:26E-3.6 et seq.	Y
ka 22	ALL PETROL. CONT. SOILS WERE SECURED FROM THE WEATHER BY CLOSE OF BUSINESS TODAY	NA
r s	THE SSE AUTHORIZED BACKFILLING THE EXCAVATION (STONE TO 1" ABOVE GROUNDWATER)	N,
<u>س:</u> تا	ADDITIONAL NOTES WERE TAKEN AND ARE RECORDED ON THE BACK OF THIS FORM	\overline{N}
с э	THE FOLLOWING DOCUMENTS WERE ADDED TO THE PROJECT FOLDER TODAY: (CIRCLE EACH)	1.
ы-ы Г.Э.	SCRAP TICKET, CSE PERMIT, ACCIDENT REPORT, HAZ. WASTE MANIFEST, DAILY UST CLOSURE LOG, SCALED SITE MAP (SAMPLING), SRF-CLOSURE, CHAIN OF CUSTODY, SOIL ANALYTICAL RESULTS, CLEAN FILL TICKETS(IN YDS ³), PHOTOGRAPHS (UST, EXCAVATION, SAMPLING POINTS)	M
I c berf that inco	CHECK ALL BOXES. LEAVE ertify under penalty of law that tank decommissioning activitie formed in compliance with N.J.A.C. 7:14B-9.2(b)3 and 7:26 <u>et seq</u> I and there are significant penalties for submitting false, inaccura complete information, including fines and/or imprisonment.	<u>NO BLANKS</u> S Were n aware te, or
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UST DISPOSAL CERTIFICATE

TOTAL OF INVOICES	PAY TO THE ORDER OF THE ORDER OF THE THE ORDER OF THE THE THE THE ORDER OF THE THE THE THE THE THE THE THE THE THE	& SONS, INC. BUDG CLING DIVISION R IN POSSESSION O SHAFTO RD. FALLS, NJ 07753 MINNELL MINNELL AUGULO	$\frac{0081535-206}{1075}$ $\frac{1075}{1075}$ $\frac{10196}{10}$ $\frac{55-33}{212}$ $\frac{55-33}{212}$ $\frac{553\cdot90}{10}$ $\frac{1000}{10}$
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	MAZZA 8	k SONS, INC.	NO
	Metal Auto	Recyclers and Truck	DATE 14 June 96
	3230 S Tinto (908)	Snaπo Rd. n Falls, NJ 922-9292	
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APPENDIX E

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SOIL ANALYTICAL DATA PACKAGE
Client:	U.S. Army DPW, SELFM-PW-EV Bldg. 173 Ft. Monmouth, NJ 07703	Lab. ID #: 2089.110 Sample Rec'd: 06/12/96 Analysis Start: 06/14/96 Analysis Comp: 06/24/96
Noolust.		

Analysis: OQA-QAM-025 Matrix: Soil Analyst: B.McKee Ext. Meth: Shake

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NJDEP UST Reg.#: Closure #: DICAR #: Location #: Bldg. 1075

Lab ID.	Description	OVA	%Solid	MDL	Surrogate	Result
				(mg/Kg)	%	(mg/Kg)
					Recovery	
2089.1	1075-A (Exc. Floor @ 9')	ND	89.2	200	118.5	ND
2089.2	1075-B (Exc. Floor @ 9')	ND	72.4	200	96.7	ND
2089.3	1075-C (Sidewall @ 8.5')	ND	88.5	200	116.3	ND
2089.4	1075-D (Sidewall @ 8.5')	ND	89.9	200	129.2	ND
2089.5	1075-E (Piping Run @ 4')	ND	87.5	200	91.8	ND
2089.6	1075-F (Piping Run @ 4')	ND	78.9	200	86.2	ND
2089.7	1075-G (Piping Run @ 4')	ND	89.1	200	134.2	ND
2089.8	1075-H (Piping Run @ 4')	ND	90	200	89.7	ND
2089.9	1075-I (Piping Run @ 4')	ND	89.5	200	125.8	ND
2089.10	1075-J (Field Duplicate)	NA	89.1	200	83.0	ND
M. BI.	Method Blank	NA	100	200	91.3	ND

QC:

2089.95= 89%, 2089.95D=107%, RPD=18.0%, 2089.9dup=104% Surrogate: 50% - 165% QC Limits: MS/MSD: not established RPD: not established

Notes:

ND = Not Detected, MDL = Method Detection Limit ١ NA = Not Applicable * = Matrix Interference

MK_ Durane K.

Brian K. McKee Laboratory Director

Report of Analysis U.S. Army, Fort Monmouth Environmental Laboratory NJDEP Certification # 13461

Report of Analysis U.S. Army, Fort Monmouth Environmental Laboratory NJDEP Certification # 13461

Client: U.S. Army DPW, SELFM-PW-EV Bldg. 173 Ft. Monmouth, NJ 07703 Lab. ID #: 2089.1-.10 Sample Rec'd: 06/12/96 Analysis Start: 06/14/96 Analysis Comp: 06/24/96

Analysis: Munsel

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Lab ID#	Soil Color
2089.1	10YR 3/4 Dark Yellow Brown
2089.2	10YR 5/6 Yellow Brown
2089.3	10YR 4/6 Dark Yellow Brown
2089.4	10YR 4/4 Dark Yellow Brown
2089.5	10YR 4/6 Dark Yellow Brown
2089.6	10YR 4/6 Dark Yellow Brown
2089.7	10YR 4/3 Brown
2089.8	10YR 4/4 Dark Yellow Brown
2089.9	10YR 4/6 Dark Yellow Brown
2089.10	10YR 4/4 Dark Yellow Brown

MK

Brian K. McKee Laboratory Director

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Project 11:	· · · ·	•	Samp	ler:		TIS	Date	/ Tim	e	 A Pa	naly	sis Ince		<u>.</u>		Star	t:	·
Customer:	Sins	Kİ	<u>(70</u>	Name:	arlinis -	<u>IVJ</u>		V30	2			7	17	17	77	Finis	sh:"	
SET FM-P	<i>አት-ዞ</i> ና	/	B	ILDING	a, #10	75				•		$\sqrt{2}$	/ /	[]]		a direk	<u>- 19</u> †	R.P.
Phone: (9)8)	532-	0989	7			•	•	•	•		15ÿ			/ / .	- F	resei	rvat Mel	ion
Lab Sample			Cu	stomer 9	iampte	Sample	.ll of]	K	X	Ŵ	¥ /	//	<u></u> '	Pant		1	
10 11011001	1.119	1227	1/170	AG				\vdash	\bigstar	太	7	-		<u></u>				<u> </u>
<u>_dogy 0/</u>	5-11-16	134/3	1175	B	1.00000	1 2012		2	X	X	7 -	-	<u></u> IN		SAMO	155		$\overline{1}$
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		1338	1075	-D	1.	1		·			-	-	. N		<u> </u>	<u> </u>		
.5	6-12-8	1041	1075	-ElPining	Rin Q4)						-[)	· ·			
16		1048	1075	- <i>F</i> -			-				-		N	0	· · · · · · · · ·			
7		1051	1075-	G			-				-		N	5.	1	• -		·
		1053	1075-	H				·					N	D	• •			. :
•• .9	1	1124	1075	I "								ŀ	·N	2		5.45		
	<u>> 6-11-96</u>	1	1075	DURFIEL	O DUPLIC,			L	1	<u>_</u> _				-	· · · · · · · · · · · · · · · · · · ·			<u>,</u>
NOTELOV	<u>§ CA</u>	<u>ISR Fi</u>	FOR	<u>95 PPM</u>	METER.	READIN	X- W/45	XIN/C		<u>/Z</u>	<u>Til</u>	1.A	C By	1 G. D.	Mie tinis	@/:	<u> </u>	• Ring E
Relinguished		s grat	ure)	Dale /	Time Re	ceived	Uy (sign	ature		Sh	ippe U	d Uy Ø <i>a i</i> l	:	00	SERIA SERIA	-78. _#19.	52/1	そ)
Relinguished	By (:	signati) Jre)	Date /	Time Re	ceived	for Lab	by (s	 i gna	atul	//// Fé):		Dat	e / Ti	me			
0			1.	I	·	ric	Č	1,1	5	•			6-12	-96 115	3	•		
Note; A draw	ing d	epicti	ng sam	ple loca	tion sho	uld be	attached	or di	า อพเ	n oi	n th	e re	verse	side	of thi	s cha	uin (F
SAI-ENU COC	form		CATED	SAMPL	NG TOOL	<u>is used</u>	<u>SEE I</u>	RUJE	<u>CT</u>	F	<u>LE</u>	FOR	<u>San</u>	PLING	LOCA	TION	<u>s</u>	· · ·
		ang Printing		ALATE	ALA CA	+ "	+ an) CHECK	En (0) ~ (722	and a	1.1	191	6	D-MA	nat		۲. ۲. ا

	·	Sample	Receipt Form		•	
Date Received	1: <u>6-12-9</u>	16	Lab Pr	roject ID #:	2089	
Site/Project N	ame: <u>B.10</u>	75	Cooler	r Temp: 🗹	yoc	<u> </u>
Received by:	- 	The G.	Dh.			
		Circle the	appropriate answer		• •	
 Did the sample Were chain of Did you sign t Was the project Did all bottles Did all labels a Were correct c Were bubbles Fill out the follow 	es come in a cool custody papers f he chain of custo ct identifiable fro arrive unbroken agree with the chi- containers and/or absent from aque wing for each san	er? illed out correctl dy in the approp m the chain of c and were labels ain of custody? preservatives us ous VOC sampl	y and legibly? riate place? ustody? in good condition? ed for the tests indjca e containers?	ated?	no yes no	NA
Sample ID	Preservative	I pH	Sample ID	Preservative	nH	1
		F			P~~	
ALL SAMPLES	<4°c	NA				
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Comments:	IONE	•			····-	•
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Samples Accept	ed By:	ne G.	/ptr		•	

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Data File : C:\HPCHEM\6\DATA\0 Acq On : 22 Jun 96 06:26 A Sample : 2089.1 Misc : Quant Time: Jun 24 10:23 1996	6219640.D M		Vial: Operator: Inst : Multiplr:	7 FID/ECD 1.00
Method : C:\HPCHEM\5\MET Title : #2 Fuel Oil Last Update : Mon Jun 24 09:5 Response via : Multiple Level	HODS\TPH3A.M 2:32 1996 Calibration	I		
Volume Inj. : Signal Phase : Signal Info :				·
Compound	R.T.	Response	Conc Uni	its
System Monitoring Compounds 2) S o-Terphenyl	7.80 Recove	3105 ry =	0.711 mc 177.75%	g/L 118.5
Target Compounds 1) h #2 Fuel Oil	10.00	61734	18.806 mg	g/L

Data File : C:\HPCHEM\6\DATA\06219640.D Acg On : 22 Jun 96_06:26 AM Sample : 2089.1 Misc : Ouant Time: Jun 24 10:23 1996 : C:\HPCHEM\5\METHODS\TPH3A.M Method Title : #2 Fuel Oil Last Update : Mon Jun 24 09:52:32 1996 Response via : Multiple Level Calibration Volume Inj. : Signal Phase : Signal Info :

Vial: 7 Operator: Inst : FID/ECD Multiplr: 1.00



SEMI

Mon Jun 24 10:23:29 1996

06219640.D TPH3A.M

Quantitation Report

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· · ·	Data File : C:\HPCHEM\6\DATA\0621 Acq On : 22 Jun 96 07:01 AM Sample : 2089.2 Misc : Quant Time: Jun 28 10:23 1996	9641.D	Vial Operator Inst Multiplr	: 8 : : FID/ECD : 1.00
· ·	Method : C:\HPCHEM\5\METHOD Title : #2 Fuel Oil Last Update : Mon Jun 24 09:52:3 Response via : Multiple Level Cal	S\TPH3A.M 2 1996 ibration		
7 X	Volume Inj. : Signal Phase : Signal Info :			
	Compound	R.T.	Response (Conc Units
• • •	System Monitoring Compounds 2) S o-Terphenyl	7.80 Recove	2530 (ery = 96	0.580 mg/L m
í Ta	arget Compounds 1) h #2 Fuel Oil	10.00	9355 2	2.850 mg/L
) 16 ~	(f)=RT Delta > 1/2 Window 06219641.D TPH3A.M Fri Ju	un 28 10:23:39	(m)= 1996 SEMI	-manual int.

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Quantitation Report

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Data File : C:\HPCHEM\6\DATA\06219641.D Vial: 8 Operator: Acg On : 22 Jun 96 07:01 AM Inst : FID/ECD Sample : 2089.2 Multiplr: 1.00 Misc : Ouant Time: Jun 28 10:23 1996 : C:\HPCHEM\5\METHODS\TPH3A.M Method : #2 Fuel Oil Title Last Update : Mon Jun 24 09:52:32 1996 Response via : Multiple Level Calibration Volume Inj. : Signal Phase : Signal Info :



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Data File : C:\HPCHEM\6\DATA\ Acq On : 22 Jun 96 07:35 Sample : 2089.3 Misc : Quant Time: Jun 24 10:23 1996	06219642.D AM		Vial: 9 Operator: Inst : FI Multiplr: 1.	D/ECD 00
Method : C:\HPCHEM\5\ME Title : #2 Fuel Oil Last Update : Mon Jun 24 09 Response via : Multiple Level	ETHODS\TPH3A.M :52:32 1996 l Calibration	I		
Volume Inj. : Signal Phase : Signal Info :				
Compound	R.T.	Response	Conc Units	3
System Monitoring Compounds 2) S o-Terphenyl	7.80 Recove	3050 ery =	0.698 mg/I 174.50%	116.3
Target Compounds 1) h #2 Fuel Oil	10.00	53210	16.209 mg/I	







Quantitation Report

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Data File : C:\HPCHEM\6\DATA\0 Acq On : 22 Jun 96 08:10 A Sample : 2089.4 Misc : Quant Time: Jun 24 10:24 1996	D6219643.D AM		Vial: 1 Operator: Inst : 1 Multiplr: 1	10 FID/ECD 1.00	•
Method : C:\HPCHEM\5\ME Title : #2 Fuel Oil Last Update : Mon Jun 24 09: Response via : Multiple Level	THODS\TPH3A.M 52:32 1996 Calibration				
Volume Inj. : Signal Phase : Signal Info :					
Compound	R.T. R	esponse	Conc Uni	ts	
System Monitoring Compounds 2) S o-Terphenyl	7.80 Recovery	3385 	0.775 mg	/L 12 ^{9.7}	2-
Target Compounds 1) h #2 Fuel Oil	10.00	47047	14.332 mg	/ь	•

(f)=RT Delta > 1/2 Window (m)=manual int. 06219643.D TPH3A.M Mon Jun 24 10:24:16 1996 SEMI Page 1 Data File : C:\HPCHEM\6\DATA\06219643.D Vial: 10 : 22 Jun 96 08:10 AM Operator: Aca On : FID/ECD : 2089.4 Inst Sample Multiplr: 1.00 Misc : Ouant Time: Jun 24 10:24 1996 : C:\HPCHEM\5\METHODS\TPH3A.M Method : #2 Fuel Oil Title Last Update : Mon Jun 24 09:52:32 1996 Response via : Multiple Level Calibration Volume Inj. : Signal Phase : Signal Info :



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Data File : C Acq On : 2 Sample : 2 Misc : Quant Time: J	C:\HPCHEM\6\DATA\06 2 Jun 96 08:44 AM 2089.5 Jun 24 10:24 1996	5219644.D 4		Vial: Operator: Inst : Multiplr:	11 FID/ECD 1.00
Method Title Last Update Response via	: C:\HPCHEM\5\METH : #2 Fuel Oil : Mon Jun 24 09:52 : Multiple Level (HODS\TPH3A.M 2:32 1996 Calibration			
Volume Inj. Signal Phase Signal Info	: : :				
Compound		R.T.	Response	Conc Uni	lts
System Monitori 2) S o-Terpheny	ng Compounds 1	7.80 Recover	2409 Ty =	0.551 mg 137.75%	1/L 9:5
Target Compound 1) h #2 Fuel Oi	ls 1	10.00	47854	14.578 mg	g/L





Vial: 12 Data File : C:\HPCHEM\6\DATA\06219645.D Acq On : 22 Jun 96 09:19 AM Operator: Inst : FID/ECD Sample : 2089.6 Multiplr: 1.00 Misc : Ouant Time: Jun 24 10:24 1996 : C:\HPCHEM\5\METHODS\TPH3A.M Method : #2 Fuel Oil Title Last Update : Mon Jun 24 09:52:32 1996 Response via : Multiple Level Calibration Volume Inj. : Signal Phase : Signal Info :



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· · ·	Data File : C:\HPCHEM\6\DATA\0621 Acq On : 22 Jun 96 09:54 AM Sample : 2089.7 Misc : Quant Time: Jun 28 10:30 1996	9646.D	Opera Inst Mult:	Vial: 13 ator: : FID/ECD iplr: 1.00	•
x i x i x j	Method : C:\HPCHEM\5\METHOD Title : #2 Fuel Oil Last Update : Mon Jun 24 09:52:3 Response via : Multiple Level Cal	S\TPH3A.M 2 1996 ibration			
1994 1 1	Volume Inj. : Signal Phase : Signal Info :				
1. P	Compound	R.T.	Response	Conc Units	
· 1	System Monitoring Compounds 2) S o-Terphenyl	7.80 Reco	3519 very =	0.805 ^{/k²} 201.25%	311.7
Î.	arget Compounds 1) h #2 Fuel Oil	10.00	74172	22.595 mg/L	
1 : :	(f)=RT Delta > 1/2 Window 06219646.D TPH3A.M Fri Ju	n 28 10:32:0	6 1996 SI	(m)=manual int. EMI	,



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Data File : C:\HPCHEM\6\DATA\0 Acq On : 22 Jun 96 10:28 A Sample : 2089.8 Misc : Quant Time: Jun 24 10:25 1996	6219647.D M		Vial: Operator: Inst : Multiplr:	14 FID/ECD 1.00
Method : C:\HPCHEM\5\MET Title : #2 Fuel Oil Last Update : Mon Jun 24 09:5 Response via : Multiple Level (HODS\TPH3A.M 2:32 1996 Calibration			
Volume Inj. : Signal Phase : Signal Info :				
Compound	R.T.	Response	Conc Un:	its
System Monitoring Compounds 2) S o-Terphenyl	7.80 Recover	4699 ry =	1.076 mg 269.00%	^{1/L} 5+.7
Target Compounds 1) h #2 Fuel Oil	10.00	88570	26.981 mg	g/L

Data File : C:\HPCHEM\6\DATA\06219647.D Acq On : 22 Jun 96 10:28 AM : 2089.8 Sample Misc : Ouant Time: Jun 24 10:25 1996 : C:\HPCHEM\5\METHODS\TPH3A.M Method : #2 Fuel Oil Title Last Update : Mon Jun 24 09:52:32 1996 Response via : Multiple Level Calibration Volume Inj. : Signal Phase : Signal Info :

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Vial: 14 Operator: Inst : FID/ECD Multiplr: 1.00

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Data File : C:\HPCHEM\6\DATA Acq On : 22 Jun 96 11:03 Sample : 2089.9 Misc : Quant Time: Jun 24 10:25 1990	\06219648.D AM		Vial: 1 Operator: Inst : H Multiplr: 1	.5 MID/ECD
Method : C:\HPCHEM\5\MI Title : #2 Fuel Oil Last Update : Mon Jun 24 09 Response via : Multiple Leve	ETHODS\TPH3A.M :52:32 1996 l Calibration	1		
Volume Inj. : Signal Phase : Signal Info :				
Compound	R.T.	Response	Conc Unit	:s
System Monitoring Compounds 2) S o-Terphenyl	7.81 Recove	3297 ery =	0.755 mg, 188.75%	۲۲ ¹³ ٤:
Target Compounds 1) h #2 Fuel Oil	10.00	48290	14.711 mg,	/L





Quantitation Report Data File : C:\HPCHEM\6\DATA\06219649.D Vial: 16 Acq On : 22 Jun 96 11:38 AM Sample : 2089.9 dup Operator: Inst : FID/ECD Misc Multiplr: 1.00 : Quant Time: Jun 24 10:25 1996 Method : C:\HPCHEM\5\METHODS\TPH3A.M Title : #2 Fuel Oil Last Update : Mon Jun 24 09:52:32 1996 Response via : Multiple Level Calibration Volume Inj. : Signal Phase : Signal Info : Compound R.T. Response Conc Units Compound _____ System Monitoring Compounds 7.81 2409 0.551 mg/L a) 2) S o-Terphenyl Recovery = 137.75% Target Compounds 46376 14.128 mg/L 1) h #2 Fuel Oil 10.00

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Quantitation Report Data File : C:\HPCHEM\6\DATA\06219650.D Vial: 17 Acq On : 22 Jun 96 12:12 PM Sample : 2089.9 spk Misc : Operator: Inst : FID/ECD Multiplr: 1.00 Quant Time: Jun 24 10:26 1996 Method : C:\HPCHEM\5\METHODS\TPH3A.M Title : #2 Fuel Oil Last Update : Mon Jun 24 09:52:32 1996 Response via : Multiple Level Calibration Volume Inj. : Signal Phase : Signal Info : R.T. Response Conc Units Compound _____ System Monitoring Compounds 7.80 4887 1.119 mg/L q3.32) S o-Terphenyl Recovery _ = 279.75% Target Compounds 1) h #2 Fuel Oil 10.00 704925 214.743 mg/L 245 × 1971

: FID/ECD





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Data File : C:\HPCHEM\6\DATA\0 Acq On : 22 Jun 96 12:47 H Sample : 2089.9 skp dup Misc : Quant Time: Jun 24 10:26 1996	06219651.D PM		Vial: Operator: Inst : Multiplr:	18 FID/ECD 1.00
Method : C:\HPCHEM\5\ME Title : #2 Fuel Oil Last Update : Mon Jun 24 09: Response via : Multiple Level	THODS\TPH3A.M 52:32 1996 Calibration	I		
Volume Inj. : Signal Phase : Signal Info :				
Compound	R.T.	Response	Conc Un	its
System Monitoring Compounds 2) S o-Terphenyl	7.81 Recove	5733 ery =	1.312 mg 328.00%	9/L ,09,5
Target Compounds 1) h #2 Fuel Oil	10.00	840816	256.140 mg	g/L

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(f)=RT Delta	a > 1/2 Window	W				(m)=manual	int.	
06219651.D	TPH3A.M	Mon Jun	24	10:26:35	1996	SEMI	Page	1

Data File : C:\HPCHEM Acq On : 22 Jun 96 Sample : 2089.9 sk Misc : Quant Time: Jun 24 10	\6\DATA\06219651.D 12:47 PM p dup :26 1996	Vial: Operator: Inst : Multiplr:	18 FID/ECD 1.00
Method : C:\HPC Title : #2 Fue Last Update : Mon Ju Response via : Multip	HEM\5\METHODS\TPH3A.M l Oil n 24 09:52:32 1996 le Level Calibration		
Volume Inj. : Signal Phase : Signal Info :			



06219651.D TPH3A.M

Quant	itation Repor	t		
Data File : C:\HPCHEM\6\DATA\ Acq On : 22 Jun 96 01:22 Sample : 2089.10 Misc : Quant Time: Jun 24 10:26 1996	06219652.D PM	·	Vial: 19 Operator: Inst : FI Multiplr: 1.	D/ECD 00
Method : C:\HPCHEM\5\ME Title : #2 Fuel Oil Last Update : Mon Jun 24 09: Response via : Multiple Level Volume Inj. : Signal Phase : Signal Info :	THODS\TPH3A.M 52:32 1996 Calibration			
Compound	R.T.	Response	Conc Units	
System Monitoring Compounds 2) S o-Terphenyl	7.81 Recove	2176 ry =	0.498 mg/L 124.50%	y3
Target Compounds 1) h #2 Fuel Oil	10.00	49012	14.931 mg/L	- I

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(f)=RT Delta	a > 1/2 Window	M				(n
06219652.D	TPH3A.M	Mon Jun	24	10:26:51	1996	SE

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<i>i</i>])	R	esponse F	actor 1	Report	FID/H	ECD		
	Method : C:\HPCHEM\5	\methods\	ТРНЗА.	M				
	Last Update : Mon Jun 24 Response via : Initial Cal	09:43:58 ibration	1996					
(p	Calibration Files	-062196	02 D	2	-062	19604	Л	
	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	=062196	06.D	3	=002.	19604.	ע	
1	Compound	1.	2	3	4	5	Avg	%RSD
ч I. Г	1) h #2 Fuel Oil 2) S o-Terphenyl	3.1 4.4	3.4 4.5	3.4 4.2	3.2 4.3	3.3 4.5	3.3 E3 4.4 E3	4.59 2.15
. .	(#) = Out of Range							
	TPH3A.M	Mon Jun	24 09:	46:15	L996	SEMI		

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Quantitation Report Data File : C:\HPCHEM\6\DATA\06219601.D Vial: 95 Acq On : 21 Jun 96 07:59 AM Sample : Blank Operator: Inst : FID/ECD Misc Multiplr: 1.00 : Quant Time: Jun 24 10:02 1996 Method : C:\HPCHEM\5\METHODS\TPH3A.M Title : #2 Fuel Oil Last Update : Mon Jun 24 09:52:32 1996 Response via : Multiple Level Calibration Volume Inj. : Signal Phase : Signal Info : Compound R.T. Response Conc Units System Monitoring Compounds 7.79 77135 17.655 mg/L Recovery = 4413.75% 2) S o-Terphenyl Target Compounds 1) h #2 Fuel Oil 10.00 57005 17.366 mg/L

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Acq On : 21 Jun 96 07:59 AM Sample : Blank	
Sample : Blank	
Misc :	
Quant Time: Jun 24 10:02 1996	
Method : C:\HPCHEM\5\METHODS\TPH3A.M	
Title : #2 Fuel Oil	
Last Update : Mon Jun 24 09:52:32 1996	
Response via : Multiple Level Calibration	
-	
Volume Inj. :	
Signal Phase :	
Signal Info :	

Vial: 95 Operator: Inst : FID/ECD Multiplr: 1.00



06219601.D TPH3A.M

SEMI

Quantitation Report

Data File : C:\HPCHEM\6\ Acq On : 21 Jun 96 (Sample : std 1 Misc : Quant Time: Jun 24 10:02	\DATA\06219602.D 08:33 AM 2 1996	Vial: 96 Operator: Inst : FID/ECD Multiplr: 1.00
Method : C:\HPCHEM Title : #2 Fuel O Last Update : Mon Jun 2 Response via : Multiple	M\5\METHODS\TPH3A.M Dil 24 09:52:32 1996 Level Calibration	
Volume Inj. : Signal Phase : Signal Info :		.
Compound	R.T. Respons	se Conc Units
System Monitoring Compound 2) S o-Terphenyl	ls 7.79 8713 Recovery	36 19.944 mg/L = 4986.00%
Target Compounds 1) h #2 Fuel Oil	10.00 24826	61 75.628 mg/L

(f)=RT Delta > 1/2 Window (m)=manual int. 06219602.D TPH3A.M Mon Jun 24 10:02:58 1996 SEMI Page 1

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Data File : C:\HPCHEM\6\DATA\06219602.D : 21 Jun 96 08:33 AM Acg On Sample : std 1 Misc : Ouant Time: Jun 24 10:02 1996 : C:\HPCHEM\5\METHODS\TPH3A.M Method : #2 Fuel Oil Title Last Update : Mon Jun 24 09:52:32 1996 Response via : Multiple Level Calibration Volume Inj. : Signal Phase : Signal Info :

Vial: 96 Operator: Inst : FID/ECD Multiplr: 1.00





SEMI

Quantitation Report Data File : C:\HPCHEM\6\DATA\06219603.D Vial: 97 Acq On : 21 Jun 96 09:08 AM Sample : std 2 Operator: Inst : FID/ECD Misc : Multiplr: 1.00 Ouant Time: Jun 24 10:03 1996 Method : C:\HPCHEM\5\METHODS\TPH3A.M Title : #2 Fuel Oil Last Update : Mon Jun 24 09:52:32 1996 Response via : Multiple Level Calibration Volume Inj. : Signal Phase : Signal Info : Compound R.T. Response Conc Units ____ System Monitoring Compounds 7.79 89291 20.437 mg/L 2) S o-Terphenyl Recovery = 5109.25% Target Compounds

1) h #2 Fuel Oil

10.00 411589 125.383 mg/L

(m) = manual int. (f) = RT Delta > 1/2 Window 06219603.D TPH3A.M Mon Jun 24 10:03:13 1996 SEMI Page 1





SEMI
Quantitation Report Data File : C:\HPCHEM\6\DATA\06219604.D Acq On : 21 Jun 96 09:42 AM Sample : std 3 Misc : Vial: 98 Operator: Inst : FID/ECD Multiplr: 1.00 Quant Time: Jun 24 10:03 1996 Method : C:\HPCHEM\5\METHODS\TPH3A.M Title : #2 Fuel Oil Last Update : Mon Jun 24 09:52:32 1996 Response via : Multiple Level Calibration Volume Inj. : Signal Phase : Signal Info : R.T. Response Conc Units Compound _____ System Monitoring Compounds 7.79 84917 19.436 mg/L 2) S o-Terphenyl Recovery = 4859.00% Target Compounds 1) h #2 Fuel Oil 10.00 819551 249.662 mg/L

-- Quintitunion ---- por--

Vial: 98

Data File : C:\HPCHEM\6\DATA\06219604.D	Vial:	98
Sample : std 3	Inst :	FID/ECD
Quant Time: Jun 24 10:03 1996	Mulcipit:	1.00
Method : C:\HPCHEM\5\METHODS\TPH3A.M Title : #2 Fuel Oil Last Update : Mon Jun 24 09:52:32 1996 Response via : Multiple Level Calibration		
Volume Inj. : Signal Phage :		
Signal Info :		



Page 2

Quantitation Report

Data File : C:\HPCHEM\6\DATA\06219605.D Vial: 99 Acq On : 21 Jun 96 10:17 AM Sample : std 4 Misc : Operator: Inst : FID/ECD Multiplr: 1.00 Quant Time: Jun 24 10:03 1996 Method : C:\HPCHEM\5\METHODS\TPH3A.M Title : #2 Fuel Oil Last Update : Mon Jun 24 09:52:32 1996 Response via : Multiple Level Calibration Volume Inj. : Signal Phase : Signal Info : Compound R.T. Response Conc Units System Monitoring Compounds 7.79 86376 19.770 mg/L 2) S o-Terphenyl Recovery = 4942.50% Target Compounds 1) h #2 Fuel Oil 10.00 1545964 470.950 mg/L · · · .

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(f)=RT Delta > 1/2 Window (m)=manual int. 06219605.D TPH3A.M Mon Jun 24 10:03:48 1996 SEMI Page 1 C___itit__on__por__

Data File : C:\HPCHEM\6\DATA\06219605.D : 21 Jun 96 10:17 AM Acq On Sample : std 4 Misc : Quant Time: Jun 24 10:03 1996 : C:\HPCHEM\5\METHODS\TPH3A.M Method Title : #2 Fuel Oil Last Update : Mon Jun 24 09:52:32 1996 Response via : Multiple Level Calibration Volume Inj. : Signal Phase : Signal Info :

Vial: 99 Operator: Inst : FID/ECD Multiplr: 1.00



Page 2

Quantitation Report Data File : C:\HPCHEM\6\DATA\06219606.D Acq On : 21 Jun 96 10:51 AM Sample : std5 Misc Vial: 100 Operator: Inst : FID/ECD Misc Multiplr: 1.00 Quant Time: Jun 24 10:03 1996 Method : C:\HPCHEM\5\METHODS\TPH3A.M Title : #2 Fuel Oil Last Update : Mon Jun 24 09:52:32 1996 Response via : Multiple Level Calibration Volume Inj. : Signal Phase : Signal Info : R.T. Response Conc Units Compound System Monitoring Compounds 7.79 89188 20.413 mg/L Recovery = 5103.25% 2) S o-Terphenyl Target Compounds 1) h #2 Fuel Oil 10.00 3152874 960.467 mg/L

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Vial: 100

Multiplr: 1.00

: FID/ECD

Operator:

Inst

Data File : C:\HPCHEM\6\DATA\06219606.D : 21 Jun 96 10:51 AM Acg On Sample : std5 Misc : Quant Time: Jun 24 10:03 1996 : C:\HPCHEM\5\METHODS\TPH3A.M Method : #2 Fuel Oil Title Last Update : Mon Jun 24 09:52:32 1996 Response via : Multiple Level Calibration Volume Inj. : Signal Phase : Signal Info :



Quanti	tation Report	5		
Data File : C:\HPCHEM\6\DATA\0 Acq On : 21 Jun 96 11:26 A Sample : Blank Misc : Quant Time: Jun 24 10:04 1996	6219607.D M		Vial: Operator: Inst : Multiplr:	95 FID/ECD 1.00
Method : C:\HPCHEM\5\MET Title : #2 Fuel Oil Last Update : Mon Jun 24 09:5 Response via : Multiple Level	HODS\TPH3A.M 2:32 1996 Calibration			
Volume Inj. : Signal Phase : Signal Info :				
Compound	R.T.	Response	Conc Uni	lts
System Monitoring Compounds S o-Terphenyl	7.79 Recover	79851 ry =	18.276 mg 4569.00%	g/L
Target Compounds h #2 Fuel Oil	10.00	49987	15.228 mg	g/L

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Data File : C	C:\HPCHEM\6\DATA\06219607.D
Acq On : 2	21 Jun 96 11:26 AM
Sample : E	Blank
Misc :	
Quant Time: 3	Jun 24 10:04 1996
Mathad	
Methou minle	
TILLE	= #2 Fuel OII
Last Update	: Mon Jun 24 09:52:32 1996
Response via	: Multiple Level Calibration
Volume Inj.	•
Signal Phase	:
Signal Info	:

Vial: 95 Operator: Inst : FID/ECD Multiplr: 1.00



Page 2

PHC Conformance/Non-conformance Summary Report

	<u>No Yes</u>
1. Method Detection Limits provided.	
2. Method Blank Contamination - If yes, list the sample and the corresponding concentrations in each blank.	∠_
	÷
3. Matrix Spike Results Summary Meet Criteria. (If not met, list the sample and corresponding recovery which falls outside the acceptable range).	
4. Duplicate Results Summary Meet Criteria. (If not met, list the sample and corresponding recovery which falls outside the acceptable range).	_ ∠
	1/2
5. IR Spectra submitted for standards, blanks, & samples	<u> </u>
 Chromatograms submitted for standards, blanks, and samples if GC fingerprinting was conducted. 	
7. Analysis holding time met. (If not met, list number of days exceeded for each sample)	
Additional Comments: None	

Laboratory Authentication Statement

I certify under penalty of law, where applicable, that this laboratory meets the Laboratory Performance Standards and Quality Control requirements specified in N.J.A.C. 7:18 and 40 CFR Part 136 for Water and Wastewater Analyses and SW 846 for Solid Waste Analysis. I have personally examined the information contained in this report, and to the best of my knowledge, I believe that the submitted information is true, accurate, complete, and meets the above referenced standards where applicable. I am aware that there are significant penalties for purposefully submitting falsified information, including the possibility of a fine and imprisonment.

Project #2089

Brian K. McKee

Laboratory Manager

U.S. Army	, Fort Ma NJDEP (onmouth E Certifica	invironmention # 13	ntal Labora 3461	atory
Client: U.S. Army DPW, SELFM-PW-EV Bldg. 173 Ft. Monmouth, NJ	07703	An A	Lab. I Sample Re alysis St nalysis C	D #: 2114. c'd: 07/09 cart: 07/12 Comp: 07/16	14 /96 /96 /96
Analysis: OQA-QAM-025 Matrix: Soil Analyst: D. Wright Ext. Meth: Shake	NJDEP	UST Reg. Closure DICAR Location	#: #: #: Bldg.	1075	
Description	OVA	%Solid	MDL (mg/Kg)	Surrogate % Recovery	Result (mg/Kg)
1075-A (Piping Run@3')	ND	91.7	200	113.5	ND
1075-B (PipingRun@2.5')	ND	93.9	200	116.2	ND
1075-C (PipingRun@2.5')	ND	91.4	200	111.0	ND
1075-DUP (Field Dup.)	-	92.3	200	104.0	ND
					ļ
Method Blank	NA	100	200	97.5	ND

Report of Analysis

QC: 2114.1S=120%, 2114.1SD=110%, RPD=8.7%, 2114.1dup=100% @ ND QC Limits: Surrogate: 50% - 165% MS/MSD: not established RPD: not established

Notes:

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ND = Not Detected, MDL = Method Detection Limit NA = Not Applicable

* = Matrix Interference

 \sim Daniel K. Wright Laboratory Director

Report of Analysis U.S. Army, Fort Monmouth Environmental Laboratory NJDEP Certification # 13461

Client: U.S. Army DPW, SELFM-PW-EV Bldg. 173 Ft. Monmouth, NJ 07703 Lab. ID #: 2114.1-.4 Sample Rec'd: 07/09/96 Analysis Start: 07/12/96 Analysis Comp: 07/12/96

Analysis: Munsel

Lab ID#	Soil Color
2114.1	10YR 5/6 Yellowish brown
2114.2	10YR 5/6 Yellowish brown
2114.3	10YR 4/4 Dark yellowish brown
2114.4	10YR 5/6 Yellowish brown

Daniel K. Wright Laboratory Director

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•	••••			P.0.	#: 7	202	-07				•]					 				~
Project #:			Sam	pler:		 L	TIS	Date	1	Time	Τ	An	aly	sis	<u></u>				Sta	rt:	
Customer: GENE, LE SELFM-P	: ::::::::::::::::::::::::::::::::::::	< 1 %	B B	e Name UILDI	1 <u>11(6,</u> = 1,~(G, =	1115- #:10	75		<u>{</u>]/	300	2			7		7/	[]	7	Fin	ish:	P
Phone 978 Lab Sample 1D Number	532-(1111 Date/	0989 11111 Time	C Loc	ustome ation/	r Samp ID Nur	le ber	Sample Matrix	.# of Bottle	5	/	Ŕ		NU	J J				R	Pres emarks	erva Me	tio
2114.1	7-9-96	1446	1075-	APipina	Runa	31)	SOIL	1			ÍX	X				ND					*
	┥╌┥╸	1408	1875	-B(Pipi	my Rin	@2.5']		_							ND	*	= S'A1	MPLES	_	
-3	- <mark>├</mark> ┤-	<u>1413</u>	1075	- q Pipir	1 <u>g Rin</u>	<u>0,2.5'</u>				_			•	•		ND	KEP	TBE	LOW	_ ·	<u> </u> .
			1075	Dup(Fil	zo Du	PLICATĘ	<u>v</u>			1	4					. _	4	<u>C</u> .		_ <u>_``</u>	
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NOTET: OU	CA.	ERET	ED R	1:50	Pm MF	TER	FADIN	5114S	¥11	Ci		7.57		jA	÷Ę.	34	G.D.	Med	115001	300	3 MR
Relinguished		gelaku	re	Dale 7-9-96	/ Tim /53	e Rec	eived D	ly isigr	atu	re>	S	ihip /	ped 11p		:	↓ _₹ −. ↓		<u>Z</u> Ser,	-7-94 19:27	9579	20.7)
Relinquished	ៀៀ (នរំ	gnatu	re)	Date	/ Tim	e Rec	eived f	or Lab	by	(sig	nat	.uré): ·) ate , 4 0	/ ті 12 () 5	me BC	•		42
Note; A draw of cus	ing dep body.	DEDI	g sam ATEC	ple lo SAM	Cation CING	n shou TOOL	I'd be a S (ASED	Lached Ste	or FR.L	dra JE(iwn T f	on =[([the F	re OR	ver 5/	se Ami	side LING	of t	his ch CATION	ain 15	
SRI-ENV, COC	form Dl				Page	e	of		 '	Page	5		Re	v. '	A	Dat	e: 02	Rpr	93		63

Methodology Summary

Aqueous Methodologies:	<u>Ref 1</u>	<u>Ref 2</u>	<u>Ref 3</u>	<u>Ref 5</u>
BNA, Pesticides/PCB's Extraction		3510/3520		
AA/ICP Sample Preparation	200.7			
Furnace Sample Preparation	200.0			
Mercury Sample Preparation	245.1			
Haxavalent Chromium Sample Preparation	218.5			۰.
Clean-up		3610/3620/3630		
		3640/3660		
Organochlorine Pesticide and PCB by GC			608	505
Herbicides by GC			362	515.1
Purgeable Organics by GC/MS			624	524.2
Base/Neutral, Acids by GC/MS			625	525
2,3,7,8-TCDD by GC/MS			613/625	
BTEX			602	502.2
EDB/DBCP by Microextraction				504.1
Non-Aqueous Methodologies:				
BNA, Pesticides/PCB's Extraction		3550		
AA/ICP Sample Preparation		3050		
Furnace Sample Preparation		3020/3030/3050		
Mercury Sample Preparation		7471		
Clean-up		3610/3620/3630		
		3640/3660		
GC, GC/MS:				
Purgeable Organics		8240/8021		
Base/Neutral and Acid Extractables		8270		
Organophosphorus Pesticides		8140		
Organochlorine Pesticide and PCB by GC		8080		
BTEX		8020		
Halogenated Purgeable Organics		8010		
Total Petroleum Hydrocarbon **				

Ref 1. USEPA-600/4-79-020, Methods for Chemical Analysis of Water and Waste

Ref 2. USEPA SW846, Test Methods for Evaluating Solid Waste, Third Edition

Ref 3. Federal Register 40 CFR Part 136, Vol. 49, No. 209: Test Parameters for the Analysis of Pollutants.

Ref 4. Federal Register Vol. 51, No. 216, Friday, 11/7/86, pp. 40643-40652

- Ref 5. Method for the Determination of Organic Compounds in Drinking Water, EPA 500/4-88/039, Dec. 1988.
- Ref 6. Standard Methods for the Examination of Water and Wastewater, 18th Ed.
- ** NJDEP OQA-QAM-025-10/91: Quantitation of Semi-Volatile Petroleum Products in Water, Soil, Sediment and Sludge



 $\{\{_{i,j}^{R_i}\}_{i=1}^{R_i},\ldots,\ell\}$

Data File : C:\HPCHEM\6\DATA\07129603.D : 12 Jul 96 10:57 AM Aca On : EX BLANK (7/11) Sample Misc : Ouant Time: Jul 18 13:16 1996 : C:\HPCHEM\5\METHODS\TPH3.M Method Title : TPH Last Update : Thu Jul 11 08:21:17 1996 Response via : Multiple Level Calibration Volume Inj. : Signal Phase : Signal Info :

Vial: 3 Operator: Inst : FID/ECD Multiplr: 1.00



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Page 2

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Data File : C:\HPCHEM\6\DATA\07129610.D Operator: Acq On : 12 Jul 96 03:11 PM Inst Sample : 2114.4 Multiplr: 1.00 Misc : Ouant Time: Jul 18 13:34 1996 : C:\HPCHEM\5\METHODS\TPH3.M Method : TPH Title Last Update : Thu Jul 11 08:21:17 1996 Response via : Multiple Level Calibration Volume Inj. : Signal Phase : Signal Info :



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Vial: 10

: FID/ECD

PHC Conformance/Non-conformance Summary Report

	<u>No</u> Yes
1. Method Detection Limits provided.	
2. Method Blank Contamination - If yes, list the sample and the corresponding concentrations in each blank.	
3. Matrix Spike Results Summary Meet Criteria. (If not met, list the sample and corresponding recovery which falls outside the acceptable range).	
4. Duplicate Results Summary Meet Criteria. (If not met, list the sample and corresponding recovery which falls outside the acceptable range).	·
5. IR Spectra submitted for standards, blanks, & samples	<u>_NA</u>
6. Chromatograms submitted for standards, blanks, and samples if GC fingerprinting was conducted.	
7. Analysis holding time met. (If not met, list number of days exceeded for each sample)	
Additional Comments.	

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Project #2089

0 Daniel K. Wright Laboratory Manager

APPENDIX F

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PHOTOGRAPHS





December 1997

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PHOTOGRAPHIC LOG UST No. 81533-206

Building 1075 Main Post-West Fort Monmouth



SMC Environmental Services Group Engineers, Managers, Scientists, & Planners Valley Forge, Pennsylvania