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PETROLEUM STORAGE TANK REMOVAL AND SITE ASSESSMENT BUILDING 1215 NAS FORT WORTH TX
9/22/1994
WC ENVIRONMENTAL GROUP

File: 17G
A.F.

NAVAL AIR STATION
FORT WORTH JRB
CARSWELL FIELD
TEXAS

ADMINISTRATIVE RECORD
COVER SHEET

AR File Number 351

File:
A.F. 17A-58

ENVIRONMENTAL GROUP*
* A Division of Perry Williams, Inc.

PETROLEUM STORAGE TANK REMOVAL AND SITE ASSESSMENT

4150, 4152, 4154

Carswell Air Force Base
AFBCA/OHL, Building 1215
Fort Worth (Tarrant County), Texas

TNRCC #9696
Owner ID #4532

Zone 3
Contract #DACA63-92-D-0046
Delivery Order #0013

Prepared for:

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September 22, 1994

P.O. Box 30206 • Amarillo, Texas 79120

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Report Summary

REPORT SUMMARY

On May 17, 1994 Perry Williams Inc. (PWI) was given notice to proceed with Delivery Order No. 0013 under Contract No. DACA63-92-D-0046. The three sites included in this delivery order consist of Sites 4150, 4152, and 4154 all of which are located at Carswell AFB, Fort Worth (Tarrant County), Texas. The scope of this report covers the removal of the underground storage tanks (UST's) and the analytical results of sample collection. No remedial activities were authorized or performed under this delivery order.

Each of the three sites consisted of six (6) 25,000 gallon capacity UST's and associated piping. The systems were reportedly used to dispense JP-4 fuel and the installation dates were unknown. The tanks were of steel construction and were reported to be in good condition. No underground product piping was removed from outside the excavation areas required for UST removal, therefore the condition of the piping was not available.

On June 27, 1994 PWI personnel mobilized to the site and prepared the sites for demolition and excavation activities. The UST's at each site were situated below a structure which housed the system appurtenances. These structures and associated piping were demolished and removed from each site allowing access to the underlying tank repositories. The UST's were excavated, removed, and the associated underground product piping was cut adjacent to the wall of each excavation. Excavated soil was temporarily placed on a plastic barrier on-site pending the completion of excavation activities. Soil samples were collected from appropriate locations in the excavations and were submitted to the laboratory for the analysis of TRPH, BTEX, and Total Pb (lead).

Analytical results of the samples collected from the excavations indicated TRPH concentrations above USACE ID/IQ contract action levels in numerous locations at all three

sites. Sample locations and supporting analytical data are presented in the Site Soil Assessment, Section VI of this report.

At the direction of the Contracting Officer and in accordance the terms of the delivery order, no over-excavation was performed at these release locations. The excavations were backfilled, compacted, and returned to original grade utilizing the excavated soil in addition to imported fill material.

TAB

Chronology of events

CHRONOLOGY OF EVENTS

27 Jun 94	PWI personnel review site and prepare for demolition and excavation activities.
28 Jun 94	Began demolition of structure at Site 4152.
30 Jun 94	Six (6) 25,000 gallon UST's were removed from Site 4152. Samples were collected.
5 Jul 94	Began demolition of structure at Site 4154. Initiated backfilling activities at Site 4152.
7 Jul 94	Six (6) 25,000 gallon UST's were removed from Site 4154.
8 Jul 94	Collection of samples at Site 4154. Began demolition of structure at Site 4150.
9 Jul 94	Began excavation and removal of UST's at Site 4150. Initiated backfilling at Site 4154.
10 Jul 94	Completed removal of UST's at Site 4150.
11 Jul 94	Collection of samples and initiation of backfilling activities at Site 4150.
29 Jul 94	Completed backfilling and removal of debris at all sites.
30 Jul 94	Demobilize equipment from site.

TAB

Site Characterization and field investigation.

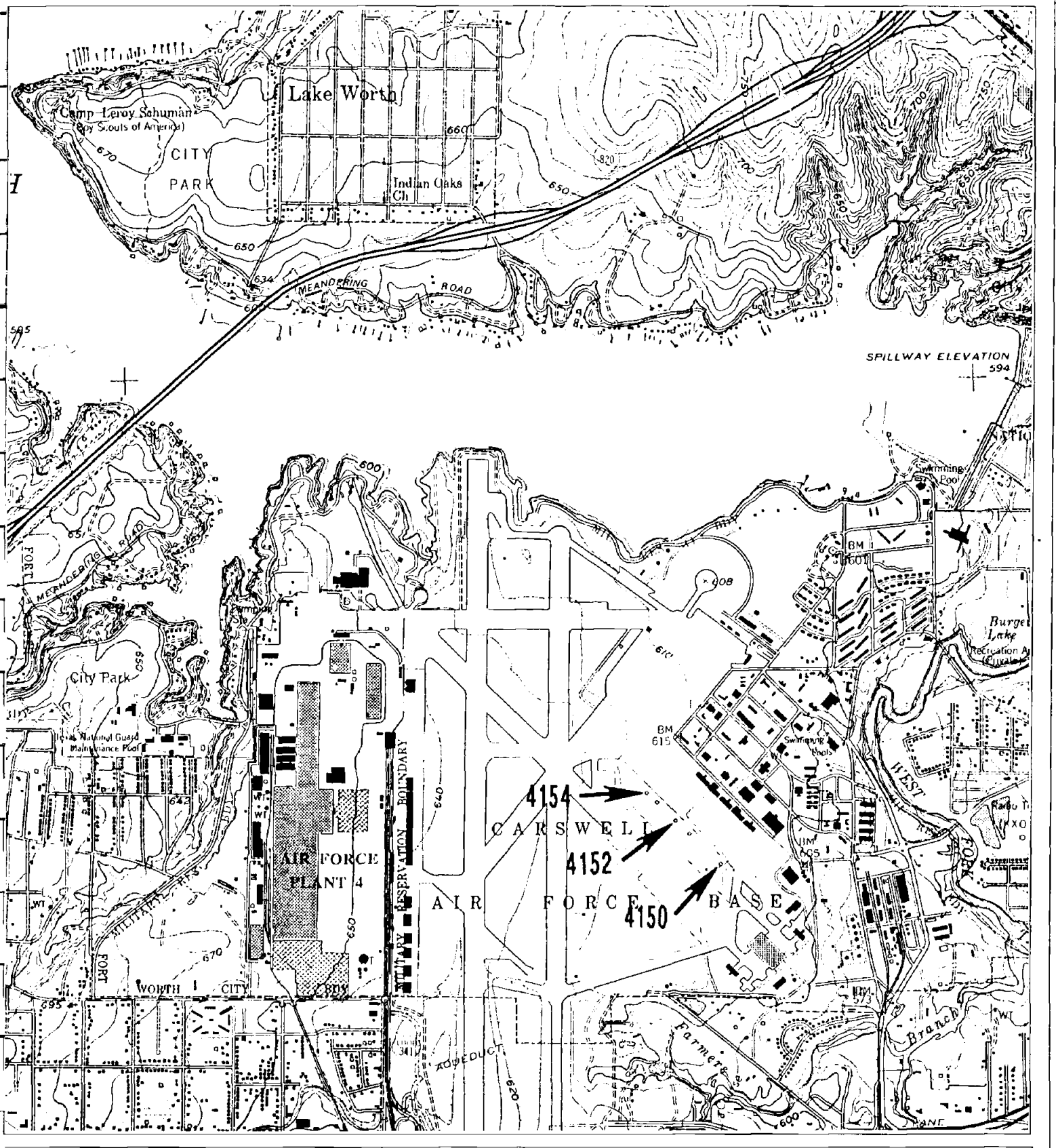
SITE CHARACTERIZATION AND FIELD INVESTIGATION

The UST systems at Sites 4152, 4154, and 4150 were located at Carswell AFB, Fort Worth (Tarrant County), Texas. Each of the three systems consisted of six (6) 25,000 gallon capacity UST's and associated piping. The systems were reportedly used to dispense JP-4 fuel and the installation dates were unknown. The tanks were of steel construction and were reported to be in good condition. No underground product piping was removed from outside the area of excavation required for UST removal, therefore the condition of the piping was not available.

On June 27, 1994 PWI personnel mobilized to the site and prepared for demolition and excavation activities. The UST's at each site were situated below a structure which housed the system appurtenances. These structures and associated piping were demolished and removed from each site allowing access to the underlying tank repositories. The UST's were excavated, removed, and the associated underground product piping was cut adjacent to the wall of each excavation. Excavated soil was temporarily placed on a plastic barrier on-site pending the completion of excavation activities. Soil samples were collected from the appropriate locations and were submitted to the laboratory for the analysis of TRPH, BTEX, and Total Pb (lead).

Analytical results of the samples collected from the excavations indicated TRPH concentrations above USACE ID/IQ contract action levels in numerous locations at all three sites. Sample locations and supporting analytical data are presented in the Site Soil Assessment, Section VI of this report.

At the direction of the Contracting Officer and in accordance the terms of the delivery order, no over-excavation was performed at these release locations. The excavations were backfilled, compacted, and returned to original grade utilizing the excavated soil in addition to imported fill material.



PORTION OF
LAKE WORTH, TEXAS
QUADRANGLE
7.5 Minute Topographic Map
Scale 1:24000

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P.O. BOX 30206, AMARILLO, TX. 79120

Carswell AFB
Sites 4150, 4152, 4154
Delivery Order #0013

TAB

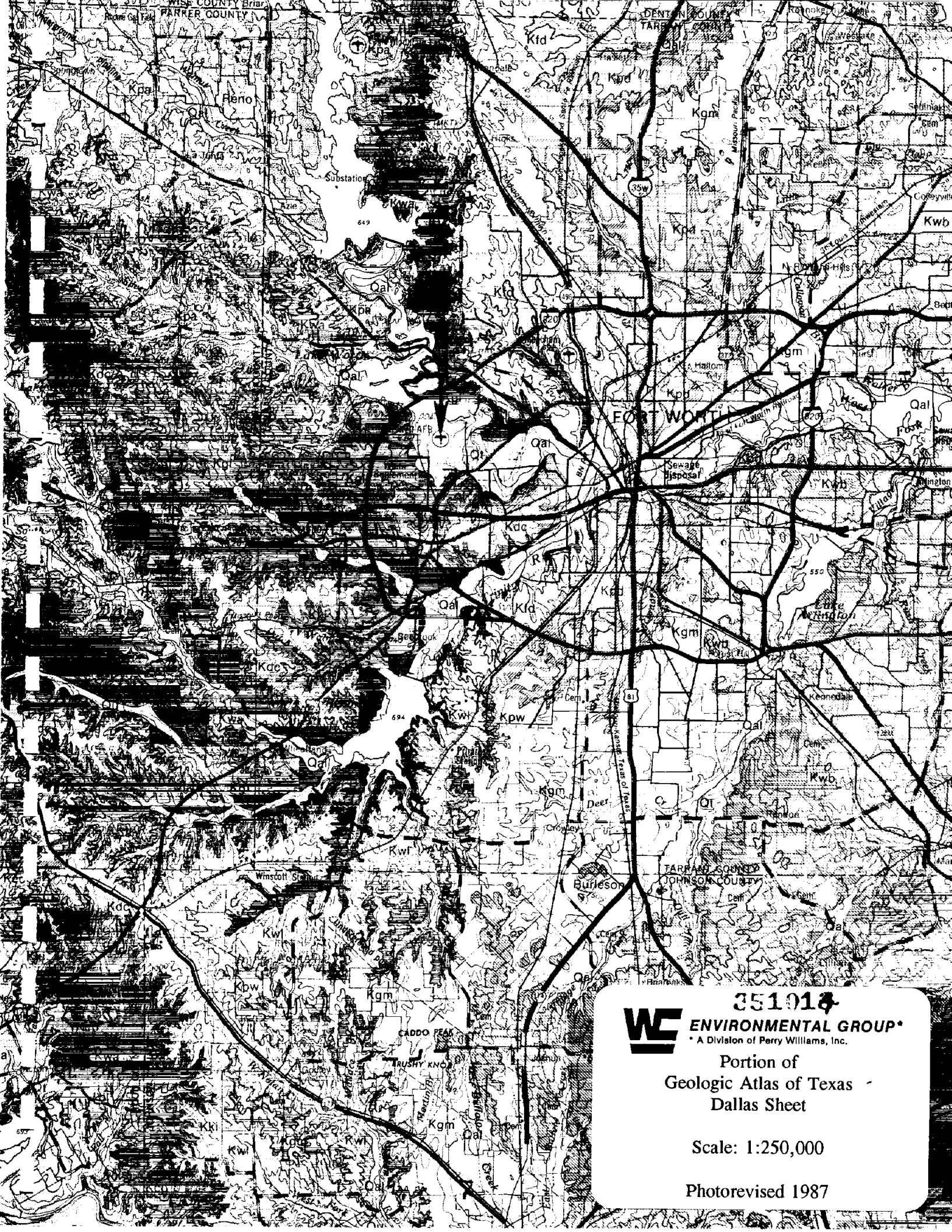
Regional Geology and Hydrogeology

REGIONAL GEOLOGY / HYDROGEOLOGY

The city of Fort Worth, Texas is centrally located in Tarrant County, a county of the north central part of the State. Tarrant County is situated on the eastern shelf of the Fort Worth basin, west of the Ouachita Fold Belt. The oldest stratigraphic units within the county are found exposed in the northwest corner with progressively younger strata to the southeast, toward the Gulf of Mexico. The rock units are representative of the late Cretaceous Age (see enclosed geologic map) and are composed of sandstone, marl, shale and fossilferous limestones.

During the late Cretaceous, deeper marine seas covered north central Texas, than had been present during the early Cretaceous. Large deposits of marine sediment created massive units of limestone and shale which can be seen cropping out in this part of the State. These formations have largely determined the type of soil exposed at the surface and have influenced the kind and quality of the underlying aquifers.

The primary aquifers for Tarrant County are part of the important Trinity Group, the principal water-bearing group of rocks in the region. The group is divided into three main units, the Paluxy, Glen Rose, and the Travis Peak. The Paluxy, the youngest water-bearing formation, crops out in the northwestern part of Tarrant County. It is generally, a sandstone, a secondary aquifer, and capable of furnishing water to households, small cities, and various industries. Below the Paluxy lies the Glen Rose formation. It is generally a poorer reservoir, because of its calcareous nature. The next older unit, the Travis Peak is the primary aquifer for the region. It is generally composed of cretaceous-age deposits of sand and gravel with interbedded clay. Water from the Travis Peak is a very good quality and can be produced in sufficient quantities to supply large agricultural and urban needs.



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Portion of
Geologic Atlas of Texas
Dallas Sheet

Scale: 1:250,000

Photorevised 1987

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TAB

Site Geology and Hydrogeology

SITE GEOLOGY AND HYDROGEOLOGY

The three sites are located east of runway 18-36 at Carswell AFB, Fort Worth (Tarrant County), Texas. The sites are located on the Fort Worth Limestone of the lower Cretaceous. The site is west of the subsurface Ouachita Fold Belt. No known faults are present in the site area.

The hydraulic gradient in this area is believed to be toward the east. Depth to groundwater was not determined and no groundwater was encountered during the excavation and removal of the UST systems.

The "Soil Survey of Tarrant County" produced by the United States Department of Agriculture's Soil Conservation Service, indicated the soil present on-site belongs to the Frio Urban association. This association makes up about 25 percent of Tarrant County. Typically, the surface layer of the Frio soil is moderately alkaline, very dark grayish brown silty clay about 15 inches thick. Underlying this horizon from 15 to 24 inches is a moderately alkaline dark grayish brown silty clay loam. The Frio soil is well drained. Permeability is moderately slow and available water capacity is high. The soils in this area are moderately suited to urban uses. The hazard of flooding, low strength affecting streets and roads, and corrosivity to uncoated steel are the main limitations associated with this soil group.

351017

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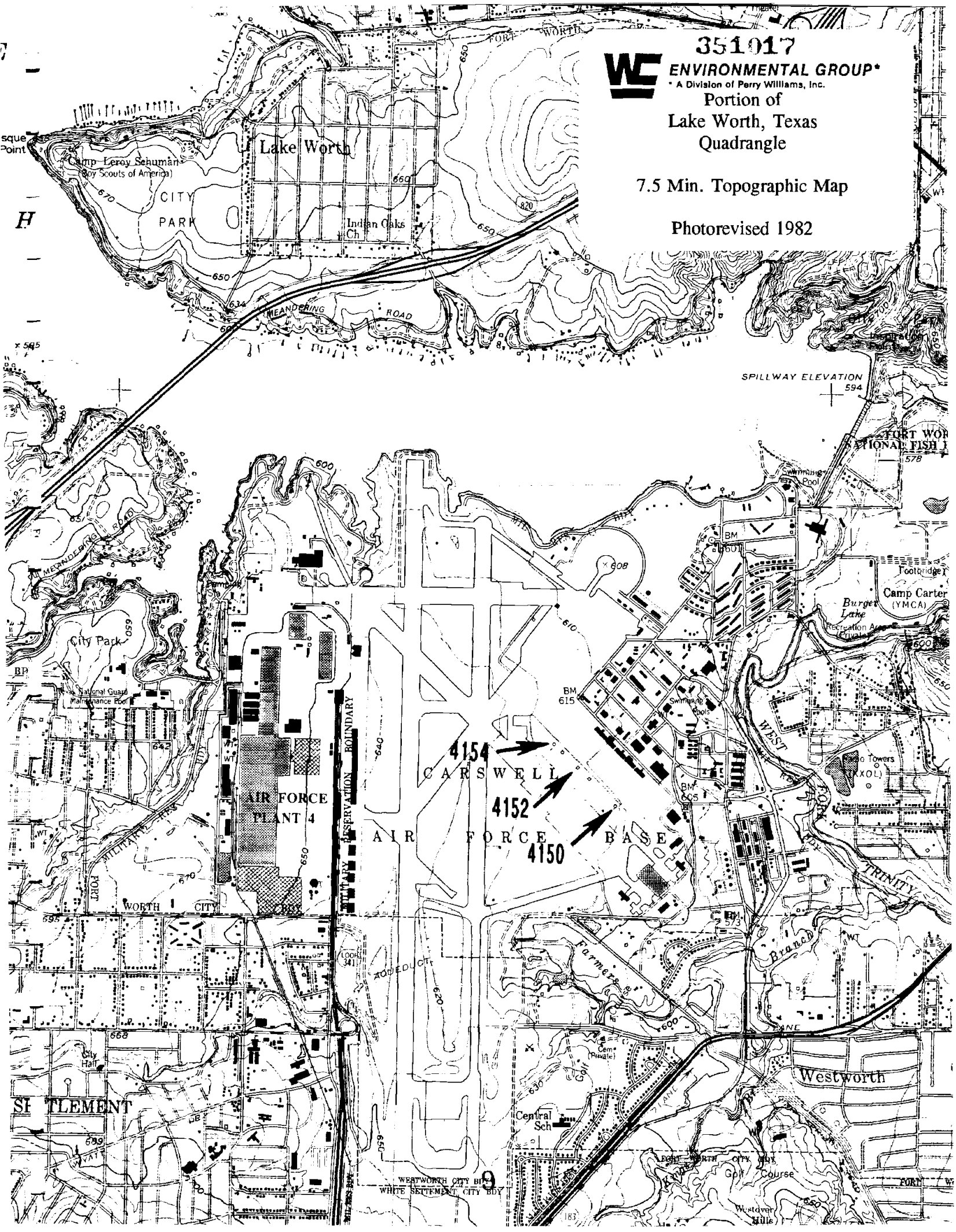
Portion of Lake Worth, Texas Quadrangle

7.5 Min. Topographic Map

Photorevised 1982



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Site Soil Assessment and Remedial Operations

SITE SOIL ASSESSMENT

The UST systems at Sites 4152, 4154, and 4150 are located at Carswell AFB, Fort Worth (Tarrant County), Texas. Each of the three systems consisted of six (6) 25,000 gallon capacity UST's and associated piping. The systems were reportedly used to dispense JP-4 fuel and the installation dates were unknown. The tanks were of steel construction and were reported to be in good condition. No underground product piping was removed from outside the excavation required for UST removal, therefore the condition of the piping was not available. As previously referenced, no remedial activities were authorized or performed under this delivery order.

Site 4152

On June 27, 1994 PWI personnel mobilized to Site 4152 and prepared the site for demolition and excavation activities. Six (6) 25,000 gallon capacity UST's were situated below a structure which housed the system appurtenances. The structure and associated piping were demolished and removed from the site allowing access to the underlying UST's. The UST's were excavated and removed and the associated underground product piping was cut adjacent to the wall of the excavation. Approximately 2700 gallons of fuel was removed from the remaining underground piping and was transported off-site for recycling. All excavated soil was temporarily placed on a plastic barrier on-site pending the completion of excavation activities. Soil samples were collected from the appropriate locations and were submitted to the laboratory for the analysis of TRPH, BTEX, and Total Pb (lead).

Eleven (11) of the twenty (20) samples collected from the excavation at Site 4152 exhibited TRPH concentrations above the USACE ID/IQ contract action levels. The following table lists the samples and locations exhibiting TRPH concentrations above the contract action level of 100 ppm.

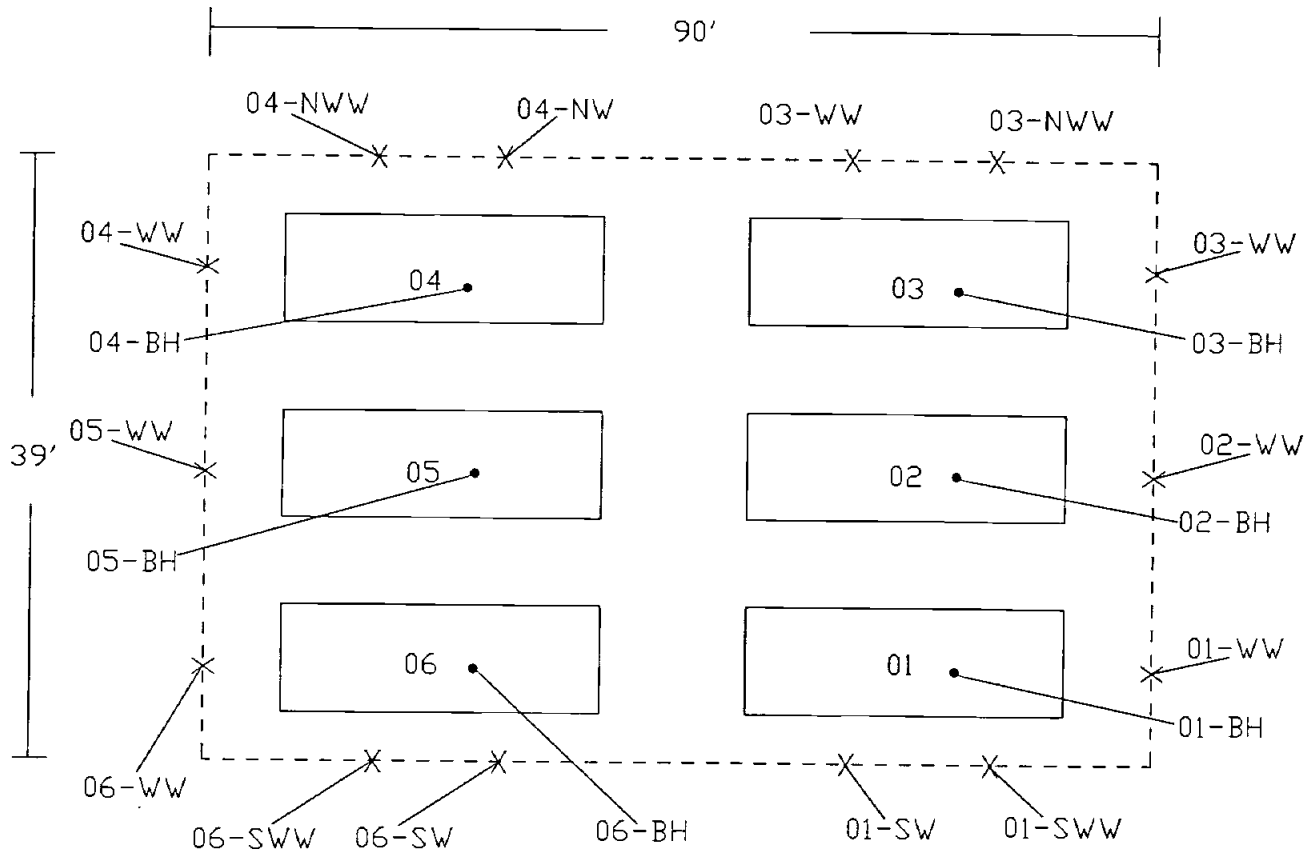
Site 4152

EXCAVATION LOCATION	FIELD DESCRIPTION	TRPH CONCENTRATION (ppm)
North Wall	CAFB-4152-04-NWW	585
"	CAFB-4152-04-NW	540
"	CAFB-4152-03-WW	625
"	CAFB-4152-03-NEW	435
South Wall	CAFB-4152-01-SW	595
Bottom Hole Subsamples	CAFB-4152-01-BH	710
"	CAFB-4152-02-BH	1775
"	CAFB-4152-03-BH	1725
"	CAFB-4152-04-BH	190
"	CAFB-4152-05-BH	1035
"	CAFB-4152-06-BH	530

The samples collected exhibited BTEX concentrations below the method detection limits (MDL) and total Pb concentrations ranged from below detection limits to 18.3 ppm (see following sample locations and analytical data).

At the direction of the Contracting Officer and in accordance the terms of the delivery order, no over-excavation was performed at these release locations. The excavations were backfilled, compacted, and returned to original grade utilizing the excavated soil in addition to imported fill material.

SITE: 4152



TANKHOLE = 90'x39'x14'

PROJECT NAME: CARSWELL AFB SITE: 4152	N	SITE MAP PERRY WILLIAMS, INC. P. O. BOX 30206 AMARILLO, TEXAS 79120
		NOT TO SCALE

SAMPLE TESTING RESULTS

Contract No: DACA63-92-D-0046 Site No: Carswell AFB #4152 Ft. Worth, TX Zone: 3

Order No: 0013 Sampler: John Stevenson

Date Sampled	Lab ID#	Field Description	Matrix	TRPH	BTEX	Lead
6/30/94	4712	CAFB-4152-01-BH	Soil	710 ppm	<19.85 ppm	9.0 ppm
6/30/94	4713	CAFB-4152-01-EW	Soil	<5 ppm	<4.60 ppm	5.0 ppm
6/30/94	4714	CAFB-4152-01-SEW	Soil	50 ppm	<0.6 ppm	6.9 ppm
6/30/94	4715	CAFB-4152-01-SW	Soil	595 ppm	<0.6 ppm	8.4 ppm

SAMPLE TESTING RESULTS

Contract No: DACA63-92-D-0046 Site No: Carswell AFB #4152 Ft. Worth, TX Zone: 3

Order No: 0013 Sampler: John Stevenson

Date Sampled	Lab ID#	Field Description	Matrix	TRPH	BTEX	Lead
6/30/94	4708	CAFB-4152-02-BH	Soil	1775 ppm	<70.73 ppm	6.7 ppm
6/30/94	4711	CAFB-4152-02-EW	Soil	<5 ppm	<0.6 ppm	<5 ppm

SAMPLE TESTING RESULTS

Contract No: DACA63-92-D-0046 Site No: Carswell AFB #4152 Ft. Worth, TX Zone: 3

Order No: 0013 Sampler: John Stevenson

Date Sampled	Lab ID#	Field Description	Matrix	TRPH	BTEX	Lead
6/30/94	4703	CAFB-4152-03-BH	Soil	1725 ppm	<55.66 ppm	<5 ppm
6/30/94	4704	CAFB-4152-03-WW	Soil	625 ppm	<7.83 ppm	10.2 ppm
6/30/94	4709	CAFB-4152-03-EW	Soil	<5 ppm	<0.6 ppm	5.3 ppm
6/30/94	4710	CAFB-4152-03-NEW	Soil	435 ppm	<0.6 ppm	5.1 ppm
6/30/94	4701	TRIP BLANK	Water	N/A	<0.030 ppm	N/A
6/30/94	4702	CAFB-4152-03-BH/RB	Water	<0.200 ppm	<0.030 ppm	<0.1 ppm

SAMPLE TESTING RESULTS

Contract No: DACA63-92-D-0046 Site No: Carswell AFB #4152 Ft. Worth, TX Zone: 3

Order No: 0013 Sampler: John Stevenson

Date Sampled	Lab ID#	Field Description	Matrix	TRPH	BTEX	Lead
6/30/94	4705	CAFB-4152-04-BH	Soil	190 ppm	<13.15 ppm	<5 ppm
6/30/94	4707	CAFB-4152-04-WW	Soil	35 ppm	<0.6 ppm	<5 ppm
6/30/94	4723	CAFB-4152-04-NW	Soil	540 ppm	<0.6 ppm	6.7 ppm
6/30/94	4724	CAFB-4152-04-NWW	Soil	585 ppm	<0.6 ppm	7.9 ppm
6/30/94	4706	CAFB-4152-04-BH/QC	Soil	245 ppm	<13.41 ppm	<5 ppm

SAMPLE TESTING RESULTS

Contract No: DACA63-92-D-0046 Site No: Carswell AFB #4152 Ft. Worth, TX Zone: 3

Order No: 0013 Sampler: John Stevenson

Date Sampled	Lab ID#	Field Description	Matrix	TRPH	BTEX	Lead
6/30/94	4720	CAFB-4152-05-BH	Soil	1035 ppm	<0.6 ppm	7.9 ppm
6/30/94	4721	CAFB-4152-05-WW	Soil	95 ppm	<0.6 ppm	6.5 ppm
6/30/94	4722	CAFB-4152-05-WW/QC	Soil	100 ppm	<0.6 ppm	5.6 ppm

SAMPLE TESTING RESULTS

Contract No: DACA63-92-D-0046 Site No: Carswell AFB #4152 Ft. Worth, TX Zone: 3

Order No: 0013 Sampler: John Stevenson

Date Sampled	Lab ID#	Field Description	Matrix	TRPH	BTEX	Lead
6/30/94	4716	CAFB-4152-06-BH	Soil	530 ppm	<0.6 ppm	18.3 ppm
6/30/94	4717	CAFB-4152-06-SWW	Soil	40 ppm	<0.6 ppm	11.4 ppm
6/30/94	4718	CAFB-4152-06-SW	Soil	<5 ppm	<0.6 ppm	5.5 ppm
6/30/94	4719	CAFB-4152-06-WW	Soil	<5 ppm	<1.56 ppm	6.1 ppm

Site 4154

On July 6, 1994 PWI personnel mobilized to Site 4154 and prepared the site for demolition and excavation activities. Six (6) 25,000 gallon capacity UST's were situated below a structure which housed the system appurtenances. The structure and associated piping were demolished and removed allowing access to the underlying UST's. The overlying soil was removed, the tanks were rinsed, and the rinsate was transported off-site for treatment. The UST's were removed and the associated underground product piping was cut adjacent to the wall of the excavation. No additional fuel was encountered in the remaining underground piping which was left in-place. All excavated soil was temporarily placed on a plastic barrier on-site pending the completion of excavation activities. Soil samples were collected from the appropriate locations and were submitted to the laboratory for the analysis of TRPH, BTEX, and total Pb (lead).

Thirteen (13) of the twenty (20) samples collected from the excavation at Site 4154 exhibited TRPH concentrations above the USACE ID/IQ contract action levels. The following table lists the samples and locations exhibiting TRPH concentrations above the contract action level of 100 ppm.

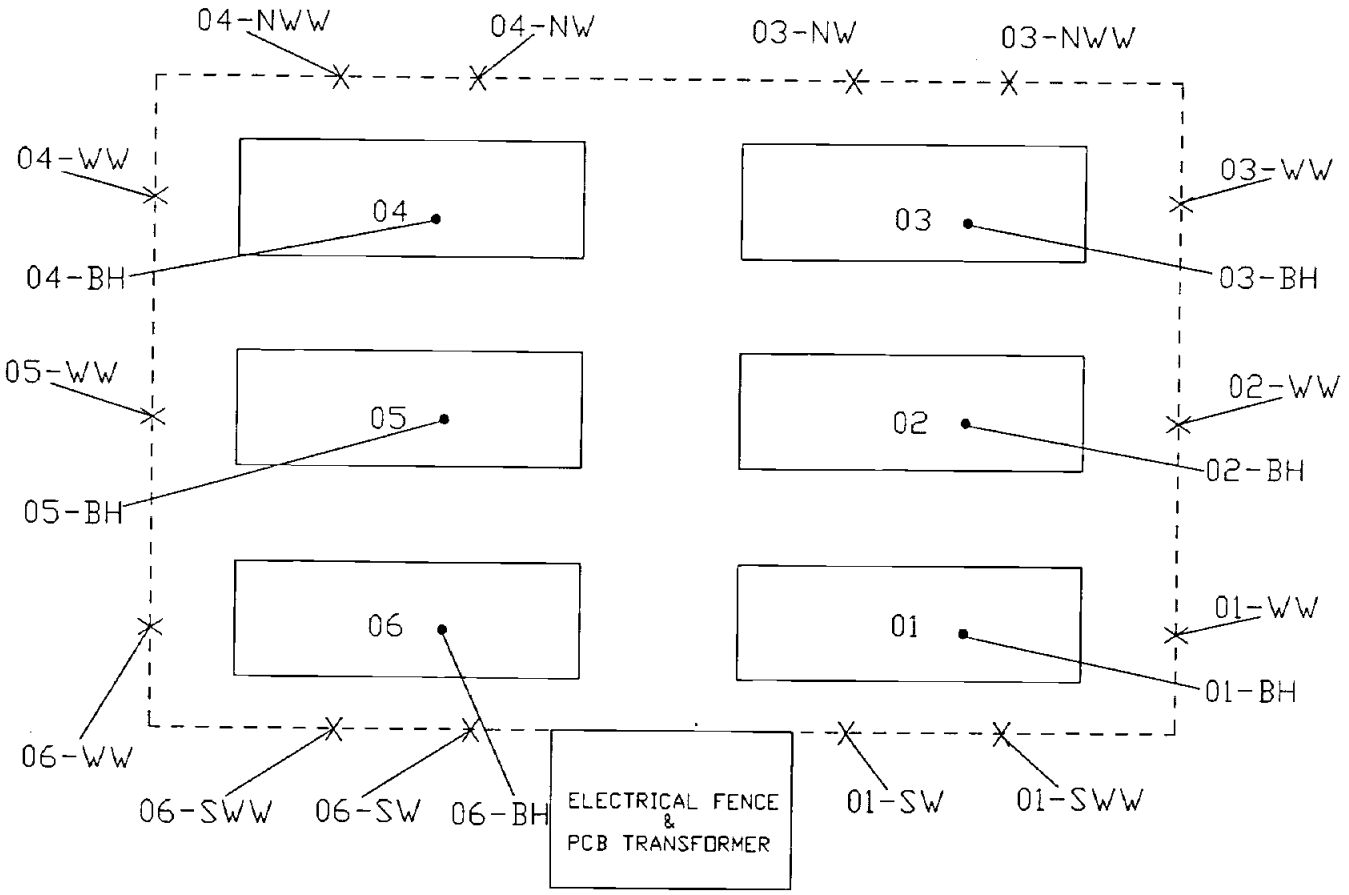
Site 4154

EXCAVATION LOCATION	FIELD DESCRIPTION	TRPH CONCENTRATION (ppm)
North Wall	CAFB-4154-04-NWW	455
East Wall	CAFB-4154-03-EW	3945
"	CAFB-4154-02-EW	1040
"	CAFB-4154-01-EW	1695
South Wall	CAFB-4154-01-SEW	1065
West Wall	CAFB-4154-06-WW	1330
"	CAFB-4154-05-WW	145
"	CAFB-4154-04-WW	605
Bottom Hole Subsamples	CAFB-4154-01-BH	1025
"	CAFB-4154-02-BH	1270
"	CAFB-4154-03-BH	280
"	CAFB-4154-04-BH	595
"	CAFB-4154-05-BH	235

All of the samples collected from the excavation exhibited BTEX concentrations below the method detection limits (MDL) and total Pb concentrations ranged from <5 to 21.5 ppm (see following sample locations and analytical data).

As previously directed, no over-excavation was performed at these release locations. The excavation was backfilled, compacted, and returned to original grade utilizing the excavated soil in addition to imported fill material.

SITE: 4154



PROJECT NAME: CARSWELL AFB
SITE: 4154

SITE MAP

PERRY WILLIAMS, INC.
P. O. BOX 30206
AMARILLO, TEXAS 79120

NOT TO SCALE

SAMPLE TESTING RESULTS

Contract No: DACA63-92-D-0046 Site No: Carswell AFB #4154 Ft. Worth, TX Zone: 3

Order No: 0013 Sampler: Donnie White/John Stevenson

Date Sampled	Lab ID#	Field Description	Matrix	TRPH	BTEX	Lead
7/8/94	6104	CAFB-4154-01-SEW	Soil	1065 ppm	<0.6 ppm	9.4 ppm
7/8/94	6105	CAFB-4154-01-SW	Soil	<5 ppm	<0.6 ppm	<5 ppm
7/8/94	6106	CAFB-4154-01-EW	Soil	1695 ppm	<94.46 ppm	9.4 ppm
7/8/94	6119	CAFB-4154-01-BH	Soil	1025 ppm	<12.38 ppm	18.1 ppm
7/8/94	6103	CAFB-4154-01-SEW/RB	Water	<0.200 ppm	<0.030 ppm	<0.1 ppm

SAMPLE TESTING RESULTS

Contract No: DACA63-92-D-0046 Site No: Carswell AFB #4154 Ft. Worth, TX Zone: 3

Order No: 0013 Sampler: Donnie White/John Stevenson

Date Sampled	Lab ID#	Field Description	Matrix	TRPH	BTEX	Lead
7/8/94	6107	CAFB-4154-02-EW	Soil	1040 ppm	<18.18 ppm	9.5 ppm
7/8/94	6120	CAFB-4154-02-BH	Soil	1270 ppm	<9.15 ppm	<5 ppm

SAMPLE TESTING RESULTS

Contract No: DACA63-92-D-0046 Site No: Carswell AFB #4154 Ft. Worth, TX Zone: 3

Order No: 0013 Sampler: Donnie White/John Stevenson

Date Sampled	Lab ID#	Field Description	Matrix	TRPH	BTEX	Lead
7/8/94	6108	CAFB-4154-03-EW	Soil	3945 ppm	<57.67 ppm	<5 ppm
7/8/94	6109	CAFB-4154-03-NEW	Soil	<5 ppm	<0.6 ppm	<5 ppm
7/8/94	6110	CAFB-4154-03-NW	Soil	<5 ppm	<0.6 ppm	<5 ppm
7/8/94	6121	CAFB-4154-03-BH	Soil	280 ppm	<3.62 ppm	<5 ppm

SAMPLE TESTING RESULTS

Contract No: DACA63-92-D-0046 Site No: Carswell AFB #4154 Ft. Worth, TX Zone: 3

Order No: 0013 Sampler: Donnie White/John Stevenson

Date Sampled	Lab ID#	Field Description	Matrix	TRPH	BTEX	Lead
7/8/94	6111	CAFB-4154-04-NW	Soil	85 ppm	<0.6 ppm	5.0 ppm
7/8/94	6112	CAFB-4154-04-NWW	Soil	455 ppm	<3.92 ppm	<5 ppm
7/8/94	6113	CAFB-4154-04-WW	Soil	605 ppm	<24.45 ppm	<5 ppm
7/8/94	6122	CAFB-4154-04-BH	Soil	595 ppm	<13.93 ppm	21.5 ppm
7/8/94	6123	CAFB-4154-04-BH/QC	Soil	845 ppm	<10.88 ppm	21.6 ppm

SAMPLE TESTING RESULTS

Contract No: DACA63-92-D-0046 Site No: Carswell AFB #4154 Ft. Worth, TX Zone: 3

Order No: 0013 Sampler: Donnie White/John Stevenson

Date Sampled	Lab ID#	Field Description	Matrix	TRPH	BTEX	Lead
7/8/94	6114	CAFB-4154-05-WW	Soil	145 ppm	<2.45 ppm	10.4 ppm
7/8/94	6124	CAFB-4154-05-BH	Soil	235 ppm	<5.20 ppm	<5 ppm
7/8/94	6115	CAFB-4154-05-WW/QC	Soil	135 ppm	<1.67 ppm	8.0 ppm

SAMPLE TESTING RESULTS

Contract No: DACA63-92-D-0046 Site No: Carswell AFB #4154 Ft. Worth, TX Zone: 3

Order No: 0013 Sampler: Donnie White/John Stevenson

Date Sampled	Lab ID#	Field Description	Matrix	TRPH	BTEX	Lead
7/8/94	6116	CAFB-4154-06-WW	Soil	1330 ppm	<4.69 ppm	5.6 ppm
7/8/94	6117	CAFB-4154-06-SWW	Soil	<5 ppm	<0.6 ppm	<5 ppm
7/8/94	6118	CAFB-4154-06-SW	Soil	65 ppm	<0.6 ppm	<5 ppm
7/8/94	6125	CAFB-4154-06-BH	Soil	85 ppm	<2.02 ppm	<5 ppm

Site 4150

On July 8, 1994 PWI personnel mobilized to Site 4150 and prepared the site for demolition and excavation activities. Six (6) 25,000 gallon capacity UST's were situated below a structure which housed the system appurtenances. The structure and associated piping were demolished and removed allowing access to the underlying UST's. During the removal of aboveground piping, two (2) 8″ defueling lines were discovered to contain fuel. Approximately 2400 gallons of fuel was evacuated from the lines and transported off-site for recycling prior to the continuation of activities. The soil overlying the tank repository was then removed, the tanks were rinsed, and the rinsate was also transported off-site for recycling. The UST's were removed and the associated underground fuel piping was cut adjacent to the wall of the excavation. All excavated soil was temporarily placed on a plastic barrier on-site pending the completion of excavation activities. Soil samples were collected from the appropriate locations and were submitted to the laboratory for the analysis of TRPH, BTEX, and total Pb (lead).

Fifteen (15) of the twenty (20) samples collected from the excavation exhibited TRPH concentrations above the USACE ID/IQ contract action levels. The following table lists the samples and locations exhibiting TRPH concentrations above the contract action level of 100 ppm TRPH:

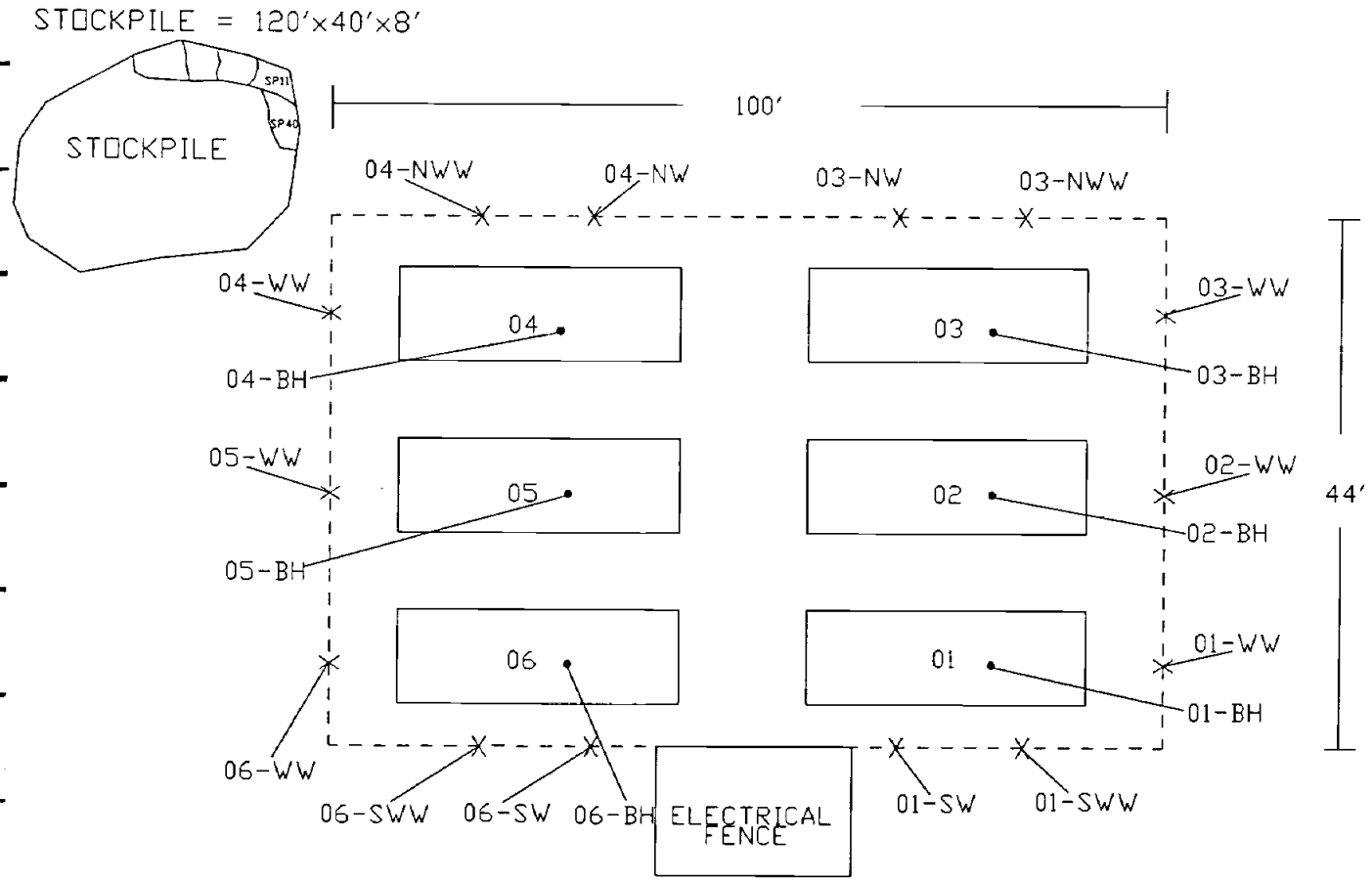
Site 4150

EXCAVATION LOCATION	FIELD DESCRIPTION	TRPH CONCENTRATION (ppm)
North Wall	CAFB-4150-03-NEW	1015
"	CAFB-4150-04-NW	1095
"	CAFB-4150-04-NWW	760
East Wall	CAFB-4150-01-EW	505
South Wall	CAFB-4150-01-SEW	1035
"	CAFB-4150-06-SW	150
"	CAFB-4150-06-SWW	525
West Wall	CAFB-4150-06-WW	665
"	CAFB-4150-05-WW	1475
"	CAFB-4150-04-WW	2495
Bottom Hole Subsamples	CAFB-4150-01-BH	735
"	CAFB-4150-02-BH	490
"	CAFB-4150-03-BH	650
"	CAFB-4150-04-BH	3025
"	CAFB-4150-05-BH	1975

The samples collected exhibited BTEX concentrations below the MDL and total Pb concentrations ranged from <5 to 25.4 ppm with the exception of the bottom hole subsample (CAFB-4150-03-BH) collected from below tank 03 which exhibited a total Pb concentration of 602.8 ppm.

As previously directed, no over-excavation was performed at these release locations. The excavation was backfilled, compacted, and returned to original grade utilizing the excavated soil in addition to imported fill material.

SITE: 4150



PROJECT NAME: CARSWELL AFB
SITE: 4150

SITE MAP

PERRY WILLIAMS, INC.
P. O. BOX 30206
AMARILLO, TEXAS 79120

NOT TO SCALE

SAMPLE TESTING RESULTS

Contract No: DACA63-92-D-0046 Site No: Carswell AFB #4150 Ft. Worth, TX Zone: 3

Order No: 0013 Sampler: Donnie White

Date Sampled	Lab ID#	Field Description	Matrix	TRPH	BTEX	Lead
7/11/94	6303	CAFB-4150-01-SEW	Soil	1035 ppm	<16.47 ppm	<5 ppm
7/11/94	6304	CAFB-4150-01-SW	Soil	<5 ppm	<0.6 ppm	<5 ppm
7/11/94	6305	CAFB-4150-01-EW	Soil	505 ppm	<2.63 ppm	11.8 ppm
7/11/94	6318	CAFB-4150-01-BH	Soil	735 ppm	<45.53 ppm	<5 ppm
7/11/94	6302	CAFB-4150-01-SEW/RB	Water	<0.200 ppm	<0.030 ppm	<0.1 ppm
7/11/94	6301	TRIP BLANK	Water	N/A	<0.030 ppm	N/A

SAMPLE TESTING RESULTS

Contract No: DACA63-92-D-0046 Site No: Carswell AFB #4150 Ft. Worth, TX Zone: 3

Order No: 0013 Sampler: Donnie White

Date Sampled	Lab ID#	Field Description	Matrix	TRPH	BTEX	Lead
7/11/94	6306	CAFB-4150-02-EW	Soil	95 ppm	<0.6 ppm	6.5 ppm
7/11/94	6319	CAFB-4150-02-BH	Soil	490 ppm	<1.82 ppm	10.6 ppm

SAMPLE TESTING RESULTS

Contract No: DACA63-92-D-0046 Site No: Carswell AFB #4150 Ft. Worth, TX Zone: 3

Order No: 0013 Sampler: Donnie White

Date Sampled	Lab ID#	Field Description	Matrix	TRPH	BTEX	Lead
7/11/94	6307	CAFB-4150-03-EW	Soil	<5 ppm	<0.6 ppm	13.7 ppm
7/11/94	6308	CAFB-4150-03-NEW	Soil	1015 ppm	<37.86 ppm	7.7 ppm
7/11/94	6309	CAFB-4150-03-NW	Soil	<5 ppm	<0.6 ppm	9.4 ppm
7/11/94	6320	CAFB-4150-03-BH	Soil	650 ppm	<2.83 ppm	602.8 ppm

SAMPLE TESTING RESULTS

Contract No: DACA63-92-D-0046 Site No: Carswell AFB #4150 Ft. Worth, TX Zone: 3

Order No: 0013 Sampler: Donnie White

Date Sampled	Lab ID#	Field Description	Matrix	TRPH	BTEX	Lead
7/11/94	6310	CAFB-4150-04-NW	Soil	1095 ppm	<8.47 ppm	6.3 ppm
7/11/94	6311	CAFB-4150-04-NWW	Soil	760 ppm	<5.73 ppm	<5 ppm
7/11/94	6312	CAFB-4150-04-WW	Soil	2495 ppm	<57.64 ppm	14.3 ppm
7/11/94	6321	CAFB-4150-04-BH	Soil	3025 ppm	<114.46 ppm	25.4 ppm
7/11/94	6322	CAFB-4150-04-BH/QC	Soil	2865 ppm	<111.26 ppm	23.3 ppm

SAMPLE TESTING RESULTS

Contract No: DACA63-92-D-0046 Site No: Carswell AFB #4150 Ft. Worth, TX Zone: 3

Order No: 0013 Sampler: Donnie White

Date Sampled	Lab ID#	Field Description	Matrix	TRPH	BTEX	Lead
7/11/94	6313	CAFB-4150-05-WW	Soil	1475 ppm	<32.36 ppm	<5 ppm
7/11/94	6323	CAFB-4150-05-BH	Soil	1975 ppm	<126.13 ppm	<5 ppm
7/11/94	6314	CAFB-4150-05-WW/QC	Soil	1420 ppm	<34.89 ppm	<5 ppm

SAMPLE TESTING RESULTS

Contract No: DACA63-92-D-0046 Site No: Carswell AFB #4150 Ft. Worth, TX Zone: 3

Order No: 0013 Sampler: Donnie White

Date Sampled	Lab ID#	Field Description	Matrix	TRPH	BTEX	Lead
7/11/94	6315	CAFB-4150-06-WW	Soil	665 ppm	<5.29 ppm	9.6 ppm
7/11/94	6316	CAFB-4150-06-SWW	Soil	525 ppm	<4.53 ppm	6.7 ppm
7/11/94	6317	CAFB-4150-06-SW	Soil	150 ppm	<3.12 ppm	6.5 ppm
7/11/94	6324	CAFB-4150-06-BH	Soil	<5 ppm	<1.30 ppm	24.1 ppm

TAB

Site Excavated Soil Assessment and Disposition

SITE EXCAVATED SOIL ASSESSMENT AND DISPOSITION

Site 4152

Approximately 800 cubic yards of soil material was generated during the excavation and removal of the UST system at Site 4152. The material was temporarily stockpiled on a plastic barrier on-site pending the completion of excavation activities. The material was sampled on a 50 cubic yard basis and analytical results of the samples (CAFB-4152-SPA...SPP) exhibited TRPH concentrations ranging from <5 to 1625 ppm. BTEX concentrations were below the MDL and total Pb concentrations ranged from <5 to 25.2 ppm (see following analytical data).

At the direction of the Contracting Officer and in accordance the terms of the delivery order, the excavations at Sites 4152, 4154, and 4150 were backfilled, compacted, and returned to original grade utilizing the excavated soil in addition to imported fill material.

SAMPLE TESTING RESULTS

Contract No: DACA63-92-D-0046 Site No: Carswell AFB #4152 Ft. Worth, TX Zone: 3

Order No: 0013 Sampler: John Stevenson

Date Sampled	Lab ID#	Field Description	Matrix	TRPH	BTEX	Lead
6/30/94	4801	CAFB-4152-SPA	Soil	575 ppm	<1.86 ppm	10.2 ppm
6/30/94	4803	CAFB-4152-SPB	Soil	340 ppm	<4.50 ppm	<5 ppm
6/30/94	4804	CAFB-4152-SPC	Soil	<5 ppm	<1.32 ppm	<5 ppm
6/30/94	4805	CAFB-4152-SPD	Soil	<5 ppm	<4.00 ppm	<5 ppm
6/30/94	4806	CAFB-4152-SPE	Soil	1205 ppm	<4.15 ppm	14.4 ppm
6/30/94	4807	CAFB-4152-SPF	Soil	625 ppm	<2.80 ppm	5.8 ppm
6/30/94	4808	CAFB-4152-SPG	Soil	1625 ppm	<51.29 ppm	25.2 ppm
6/30/94	4809	CAFB-4152-SPH	Soil	545 ppm	<8.96 ppm	11.8 ppm
6/30/94	4810	CAFB-4152-SPI	Soil	1495 ppm	<3.01 ppm	13.9 ppm
6/30/94	4811	CAFB-4152-SPJ	Soil	1005 ppm	<59.33 ppm	<5 ppm
6/30/94	4812	CAFB-4152-SPK	Soil	655 ppm	<2.74 ppm	8.8 ppm
6/30/94	4814	CAFB-4152-SPL	Soil	345 ppm	<2.23 ppm	6.9 ppm
6/30/94	4815	CAFB-4152-SPM	Soil	515 ppm	<1.61 ppm	6.0 ppm
6/30/94	4816	CAFB-4152-SPN	Soil	575 ppm	<2.40 ppm	<5 ppm

SAMPLE TESTING RESULTS

Contract No: DACA63-92-D-0046 Site No: Carswell AFB #4152 Ft. Worth, TX Zone: 3

Order No: 0013 Sampler: John Stevenson

Date Sampled	Lab ID#	Field Description	Matrix	TRPH	BTEX	Lead
6/30/94	4817	CAFB-4152-SPO	Soil	<5 ppm	<0.6 ppm	6.1 ppm
6/30/94	4818	CAFB-4152-SPP	Soil	<5 ppm	<2.35 ppm	6.2 ppm
6/30/94	4802	CAFB-4152-SPA/QC	Soil	595 ppm	<1.73 ppm	9.9 ppm
6/30/94	4813	CAFB-4152-SPK/QC	Soil	540 ppm	<4.84 ppm	8.7 ppm

SITE EXCAVATED SOIL ASSESSMENT AND DISPOSITION

Site 4154

Approximately 1000 cubic yards of soil material was generated during the excavation and removal of the UST system at Site 4154. The material was temporarily stockpiled on a plastic barrier pending the completion of excavation activities. The material was sampled on a 50 cubic yard basis and analytical results of the samples (CAFB-4154-SP1...SP20) exhibited TRPH concentrations ranging from <5 to 1605 ppm. BTEX concentration were below the MDL and total Pb concentrations ranged from <5 to 74.2 ppm (see following analytical data).

At the direction of the Contracting Officer and in accordance the terms of the delivery order, the excavations at Sites 4152, 4154, and 4150 were backfilled, compacted, and returned to original grade utilizing the excavated soil in addition to imported fill material.

SAMPLE TESTING RESULTS

Contract No: DACA63-92-D-0046 Site No: Carswell AFB #4154 Ft. Worth, TX Zone: 3

Order No: 0013 Sampler: Donnie White/John Stevenson

Date Sampled	Lab ID#	Field Description	Matrix	TRPH	BTEX	Lead
7/8/94	6126	CAFB-4154-SP1	Soil	725 ppm	<1.91 ppm	<5 ppm
7/8/94	6127	CAFB-4154-SP2	Soil	520 ppm	<2.00 ppm	21.0 ppm
7/8/94	6128	CAFB-4154-SP3	Soil	700 ppm	<2.31 ppm	36.2 ppm
7/8/94	6129	CAFB-4154-SP4	Soil	195 ppm	<1.60 ppm	<5 ppm
7/8/94	6130	CAFB-4154-SP5	Soil	970 ppm	<12.99 ppm	15.7 ppm
7/8/94	6131	CAFB-4154-SP6	Soil	435 ppm	<2.59 ppm	74.2 ppm
7/8/94	6132	CAFB-4154-SP7	Soil	80 ppm	<0.6 ppm	12.3 ppm
7/8/94	6133	CAFB-4154-SP8	Soil	<5 ppm	<0.6 ppm	7.2 ppm
7/8/94	6134	CAFB-4154-SP9	Soil	255 ppm	<0.6 ppm	10.7 ppm
7/8/94	6135	CAFB-4154-SP10	Soil	1605 ppm	<9.24 ppm	9.4 ppm
7/8/94	6136	CAFB-4154-SP11	Soil	610 ppm	<0.61 ppm	50.8 ppm
7/8/94	6137	CAFB-4154-SP12	Soil	1295 ppm	<16.52 ppm	22.2 ppm
7/8/94	6139	CAFB-4154-SP13	Soil	500 ppm	<2.91 ppm	10.1 ppm
7/8/94	6140	CAFB-4154-SP14	Soil	1255 ppm	<3.99 ppm	10.9 ppm
7/8/94	6141	CAFB-4154-SP15	Soil	1055 ppm	<8.46 ppm	<5 ppm
7/8/94	6142	CAFB-4154-SP16	Soil	<5 ppm	<0.6 ppm	<5 ppm

SAMPLE TESTING RESULTS

Contract No: DACA63-92-D-0046 Site No: Carswell AFB #4154 Ft. Worth, TX Zone: 3

Order No: 0013 Sampler: Donnie White/John Stevenson

Date Sampled	Lab ID#	Field Description	Matrix	TRPH	BTEX	Lead
7/8/94	6143	CAFB-4154-SP17	Soil	1095 ppm	<50.30 ppm	16.4 ppm
7/8/94	6144	CAFB-4154-SP18	Soil	555 ppm	<0.6 ppm	<5 ppm
7/8/94	6145	CAFB-4154-SP19	Soil	<5 ppm	<0.6 ppm	8.2 ppm
7/8/94	6146	CAFB-4154-SP20	Soil	100 ppm	<0.6 ppm	<5 ppm
7/8/94	6101	CAFB-4154-SP1/TB	Water	N/A	<0.030 ppm	N/A
7/8/94	6102	CAFB-4154-SP1/RB	Water	<0.200 ppm	<0.030 ppm	<0.1 ppm
7/8/94	6138	CAFB-4154-SP3/QC	Soil	660 ppm	<2.15 ppm	38.8 ppm
7/8/94	6147	CAFB-4154-SP19/QC	Soil	<5 ppm	<0.6 ppm	8.1 ppm

SITE EXCAVATED SOIL ASSESSMENT AND DISPOSITION

Site 4150

Approximately 2000 cubic yards of soil material was generated during the excavation and removal of the UST system at Site 4150. More extensive excavation was necessary due to the appurtenances and the depth of tank 03 at this location (bottom of tank 03 was approximately 17.5′ below surface grade). The material was temporarily stockpiled on a plastic barrier pending the completion of excavation activities. The material was sampled on a 50 cubic yard basis and analytical results of the samples (CAFB-4154-SP1...SP40) exhibited TRPH concentrations ranging from <5 to 3495 ppm. BTEX concentration were below the MDL and total Pb concentrations ranged from <5 to 43.6 ppm (See following analytical data).

At the direction of the Contracting Officer and in accordance the terms of the delivery order, the excavations at Sites 4152, 4154, and 4150 were backfilled, compacted, and returned to original grade utilizing the excavated soil in addition to imported fill material.

SAMPLE TESTING RESULTS

Contract No: DACA63-92-D-0046 Site No: Carswell AFB #4150 Ft. Worth, TX Zone: 3

Order No: 0013 Sampler: Donnie White

Date Sampled	Lab ID#	Field Description	Matrix	TRPH	BTEX	Lead
7/11/94	6403	CAFB-4150-SP1	Soil	345 ppm	<0.6 ppm	14.4 ppm
7/11/94	6405	CAFB-4150-SP2	Soil	1195 ppm	<1.47 ppm	15.2 ppm
7/11/94	6406	CAFB-4150-SP3	Soil	600 ppm	<0.6 ppm	8.8 ppm
7/11/94	6407	CAFB-4150-SP4	Soil	630 ppm	<0.6 ppm	7.6 ppm
7/11/94	6408	CAFB-4150-SP5	Soil	<5 ppm	<0.6 ppm	6.6 ppm
7/11/94	6409	CAFB-4150-SP6	Soil	<5 ppm	<0.6 ppm	8.5 ppm
7/11/94	6410	CAFB-4150-SP7	Soil	805 ppm	<5.22 ppm	9.8 ppm
7/11/94	6411	CAFB-4150-SP8	Soil	1620 ppm	<9.75 ppm	43.6 ppm
7/11/94	6412	CAFB-4150-SP9	Soil	<5 ppm	<0.6 ppm	14.2 ppm
7/11/94	6413	CAFB-4150-SP10	Soil	<5 ppm	<0.6 ppm	5.5 ppm
7/11/94	6414	CAFB-4150-SP11	Soil	2110 ppm	<65.57 ppm	12.9 ppm
7/11/94	6416	CAFB-4150-SP12	Soil	340 ppm	<0.6 ppm	10.9 ppm
7/11/94	6417	CAFB-4150-SP13	Soil	<5 ppm	<0.6 ppm	12.4 ppm
7/11/94	6418	CAFB-4150-SP14	Soil	240 ppm	<0.6 ppm	<5 ppm
7/11/94	6419	CAFB-4150-SP15	Soil	<5 ppm	<1.24 ppm	<5 ppm
7/11/94	6420	CAFB-4150-SP16	Soil	<5 ppm	<0.6 ppm	<5 ppm

SAMPLE TESTING RESULTS

Contract No: DACA63-92-D-0046 Site No: Carswell AFB #4150 Ft. Worth, TX Zone: 3

Order No: 0013 Sampler: Donnie White

Date Sampled	Lab ID#	Field Description	Matrix	TRPH	BTEX	Lead
7/11/94	6421	CAFB-4150-SP17	Soil	<5 ppm	<0.6 ppm	<5 ppm
7/11/94	6422	CAFB-4150-SP18	Soil	<5 ppm	<0.6 ppm	<5 ppm
7/11/94	6423	CAFB-4150-SP19	Soil	170 ppm	<0.6 ppm	6.9 ppm
7/11/94	6424	CAFB-4150-SP20	Soil	265 ppm	<0.6 ppm	<5 ppm
7/11/94	6426	CAFB-4150-SP21	Soil	30 ppm	<0.6 ppm	<5 ppm
7/11/94	6428	CAFB-4150-SP22	Soil	<5 ppm	<0.6 ppm	<5 ppm
7/11/94	6429	CAFB-4150-SP23	Soil	<5 ppm	<0.6 ppm	<5 ppm
7/11/94	6430	CAFB-4150-SP24	Soil	145 ppm	<0.6 ppm	9.3 ppm
7/11/94	6431	CAFB-4150-SP25	Soil	35 ppm	<0.6 ppm	5.8 ppm
7/11/94	6432	CAFB-4150-SP26	Soil	<5 ppm	<0.6 ppm	<5 ppm
7/11/94	6433	CAFB-4150-SP27	Soil	<5 ppm	<0.6 ppm	<5 ppm
7/11/94	6434	CAFB-4150-SP28	Soil	305 ppm	<0.6 ppm	7.0 ppm
7/11/94	6435	CAFB-4150-SP29	Soil	<5 ppm	<0.6 ppm	16.9 ppm
7/11/94	6436	CAFB-4150-SP30	Soil	510 ppm	<2.76 ppm	17.4 ppm
7/11/94	6437	CAFB-4150-SP31	Soil	85 ppm	<0.6 ppm	10.6 ppm
7/11/94	6439	CAFB-4150-SP32	Soil	<5 ppm	<0.6 ppm	8.2 ppm

SAMPLE TESTING RESULTS

Contract No: DACA63-92-D-0046 Site No: Carswell AFB #4150 Ft. Worth, TX Zone: 3

Order No: 0013 Sampler: Donnie White

Date Sampled	Lab ID#	Field Description	Matrix	TRPH	BTEX	Lead
7/11/94	6440	CAFB-4150-SP33	Soil	3495 ppm	<0.96 ppm	14.5 ppm
7/11/94	6441	CAFB-4150-SP34	Soil	165 ppm	<0.6 ppm	<5 ppm
7/11/94	6442	CAFB-4150-SP35	Soil	1690 ppm	<9.47 ppm	27.3 ppm
7/11/94	6443	CAFB-4150-SP36	Soil	965 ppm	<4.44 ppm	34.9 ppm
7/11/94	6444	CAFB-4150-SP37	Soil	650 ppm	<4.98 ppm	28.2 ppm
7/11/94	6445	CAFB-4150-SP38	Soil	15 ppm	<0.6 ppm	<5 ppm
7/11/94	6446	CAFB-4150-SP39	Soil	235 ppm	<0.62 ppm	7.9 ppm
7/11/94	6447	CAFB-4150-SP40	Soil	<5 ppm	<0.6 ppm	9.3 ppm
7/11/94	6401	TRIP BLANK	Water	N/A	<0.030 ppm	N/A
7/11/94	6402	CAFB-4150-SP1/RB	Water	<0.200 ppm	<0.030 ppm	<0.1 ppm
7/11/94	6404	CAFB-4150-SP1/QC	Soil	285 ppm	<0.6 ppm	15.3 ppm
7/11/94	6415	CAFB-4150-SP11/QC	Soil	1400 ppm	<39.68 ppm	11.1 ppm
7/11/94	6425	CAFB-4150-SP20/RB	Water	<0.200 ppm	<0.030 ppm	<0.1 ppm
7/11/94	6427	CAFB-4150-SP21/QC	Soil	125 ppm	<0.6 ppm	<5 ppm
7/11/94	6438	CAFB-4150-SP31/QC	Soil	70 ppm	<0.6 ppm	10.8 ppm

TAB

Site Groundwater/Surface water Assessment

SITE GROUNDWATER/SURFACE WATER ASSESSMENT

No surface or groundwater was encountered during these activities, however, a leaking water valve was discovered in near the south side of the excavation at Site 4154. PWI personnel contacted base operations and the leaking valve was repaired.

TAB

Free Phase Hydrocarbon/Tank Contents Assessment

FREE PHASE HYDROCARBON/TANK CONTENTS

Site 4152

Approximately 2700 gallons of fuel was removed from an 8″ defueling line at site 4152. Approximately 900 gallons of rinsate was generated during the cleaning of the tanks. The fuel and rinsate was transported off-site for recycling by Mobley Company, Corsicana Fuel Facility, Corsicana, Texas.

Site 4154

No fuel was encountered in tanks or piping at Site 4154. Approximately 1033 gallons of rinsate was generated during the cleaning of the tanks prior to removal. The rinsate transported off-site for recycling by Mobley Company, Corsicana Fuel Facility, Corsicana, Texas.

Site 4150

Approximately 3383 gallons of fuel was removed from two (2) 8″ defueling lines located at Site 4150. Approximately 450 gallons of rinsate was generated during the cleaning of the tanks. The fuel and rinsate was transported off-site for recycling by Mobley Company, Corsicana Fuel Facility, Corsicana, Texas.

TAB

Photographic Documentation

SITE 4152

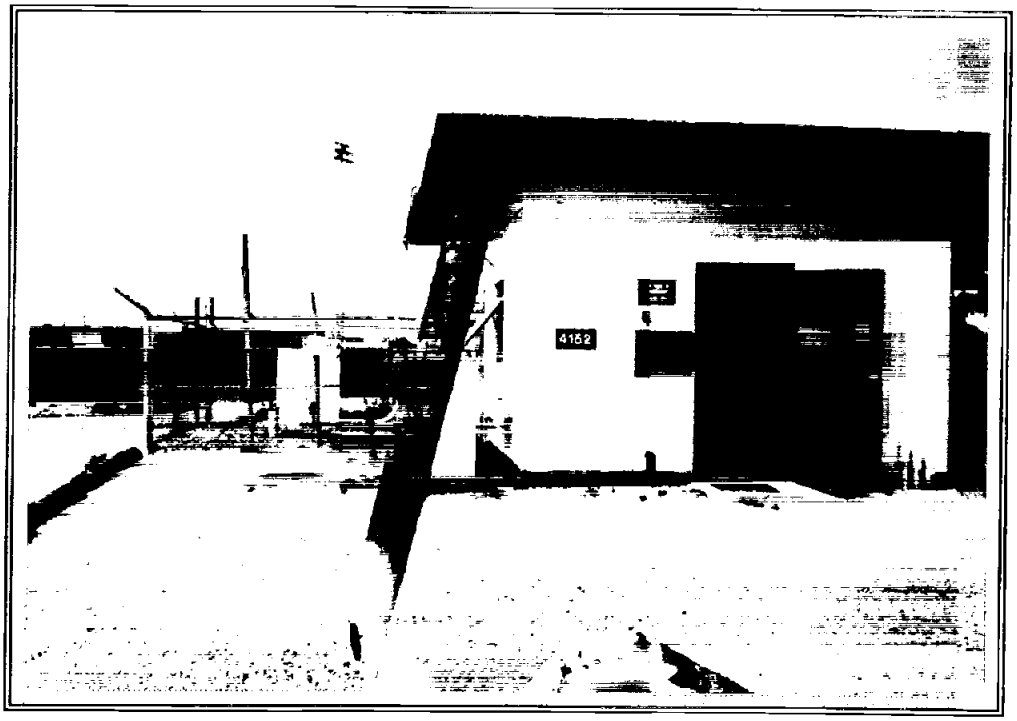


Photo 1: Pump house at Site 4152. Looking west.

Photo 2: Site 4152, looking northeast.

Photo 3: Tank 01 exposed.

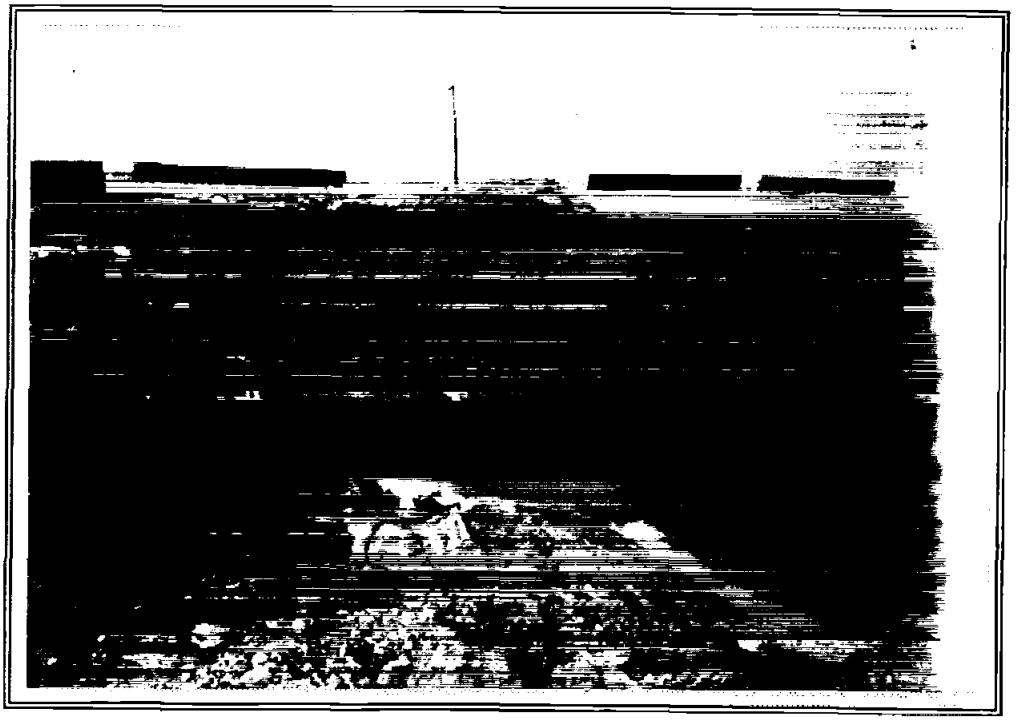


Photo 4: Backfilling at Site 4152.

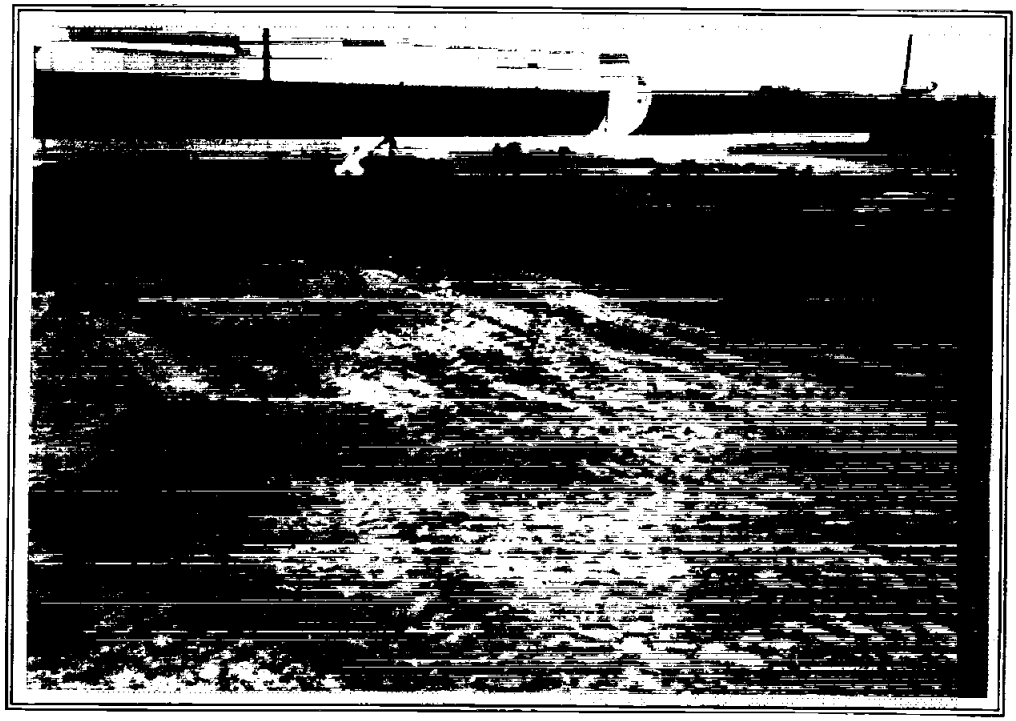


Photo 5: Backfilling at Site 4152.

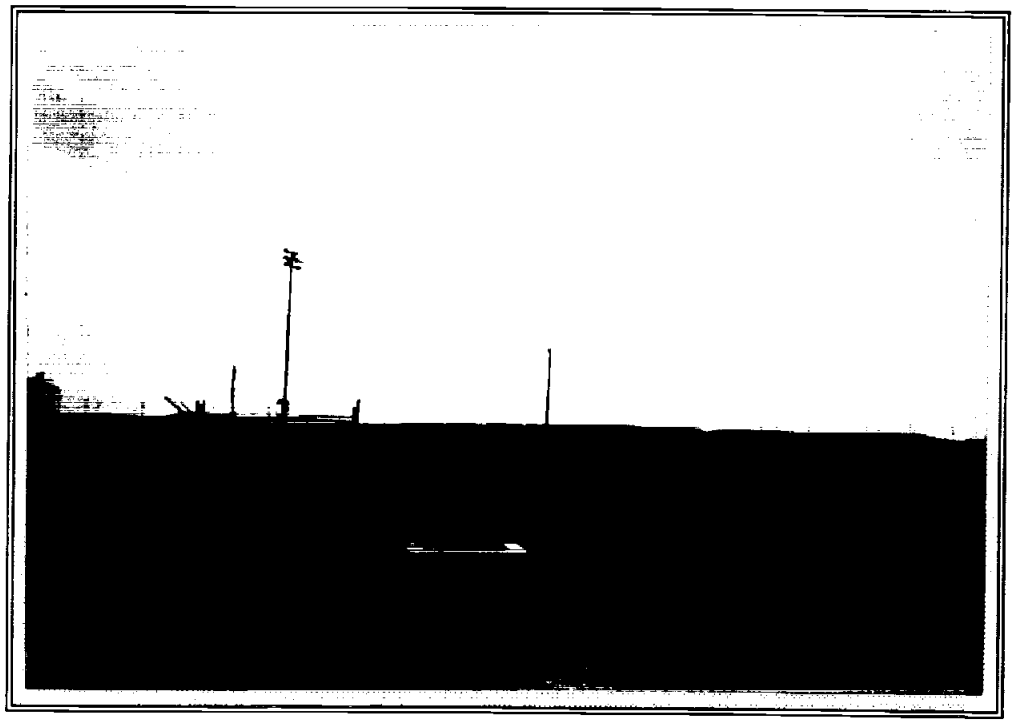


Photo 6: Site 4152 restored site.

SITE 4154

Photo 1: Site 4154, looking southwest.

Photo 2: Concrete removal at Site 4154. Looking west.

Photo 3: Tank 06 on ground after pull.

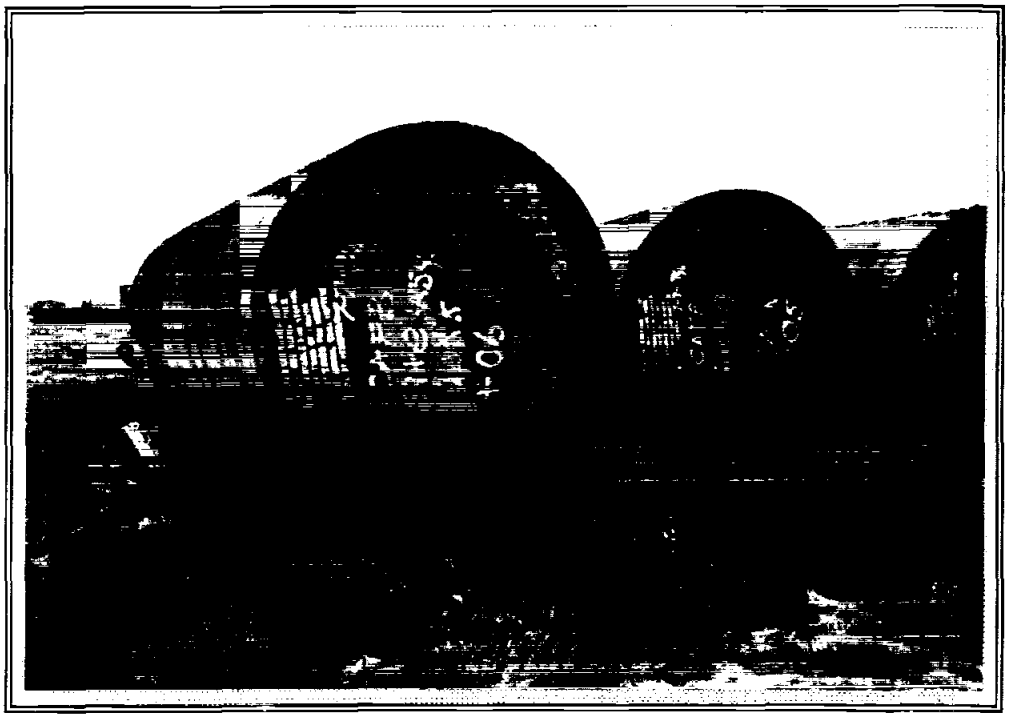


Photo 4: Tanks 06 and 05.

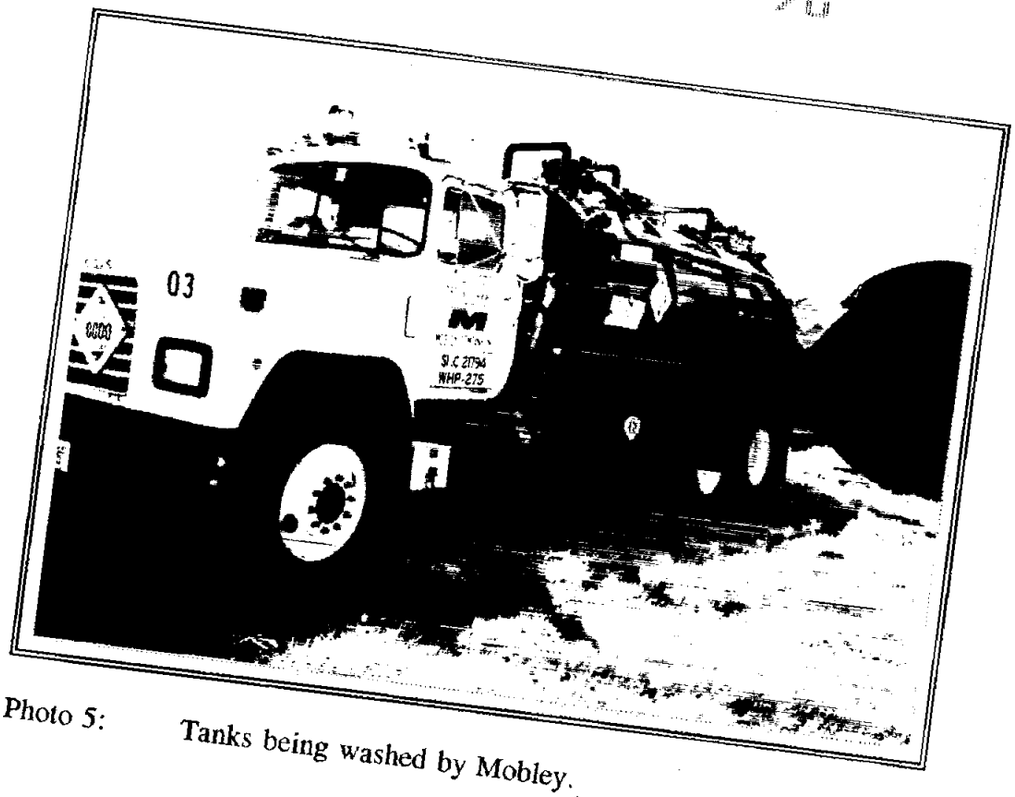


Photo 5: Tanks being washed by Mobley.

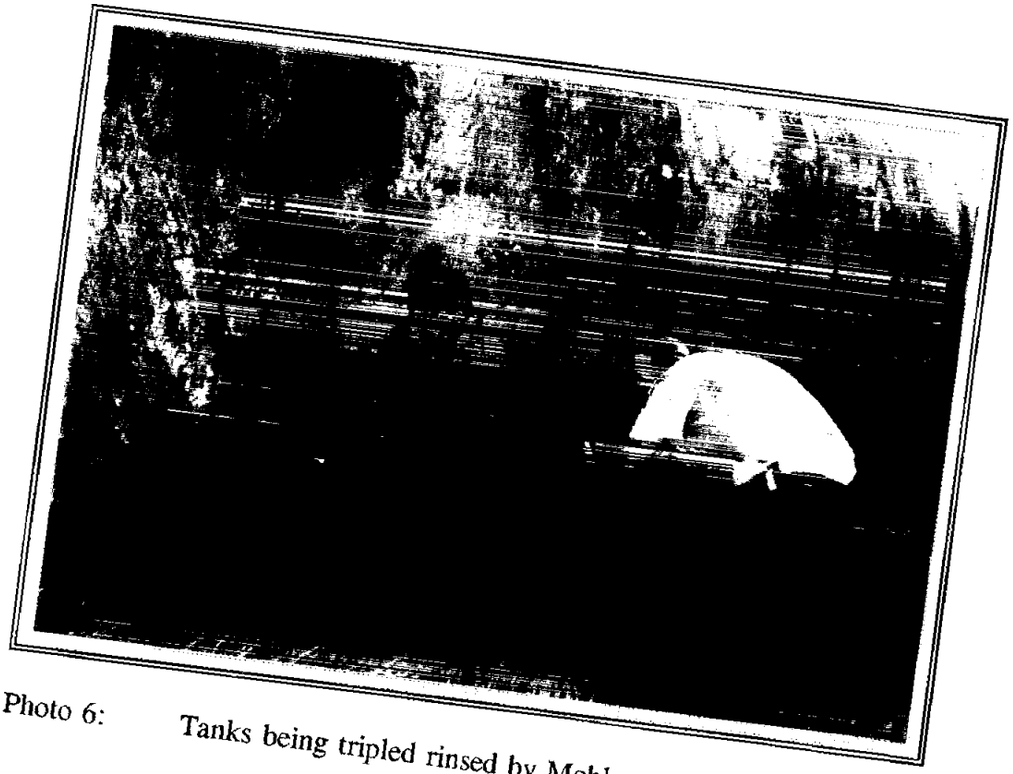


Photo 6: Tanks being tripled rinsed by Mobley.

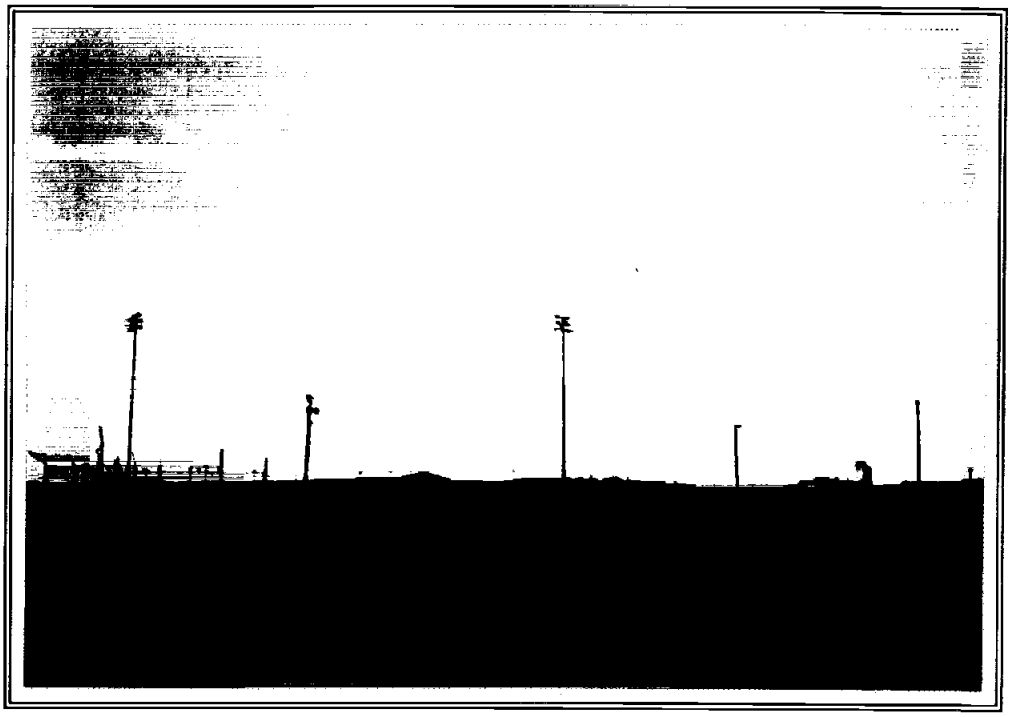


Photo 7: Site 4154 restored site.

SITE 4150

Photo 1: Site 4150, looking northwest.

Photo 2: Looking north on Site 4150.

Photo 3: Mobley removing fluids from concrete vaults.

Photo 4: Tanks 04, 05 and 06 being uncovered. Looking west.

Photo 5: Initial pull of Tank 05.

Photo 6: View of bottom hole after removal of Tanks 06, 05 and 04. Looking East.

Photo 7: Tanks 04 and 05 labeled.

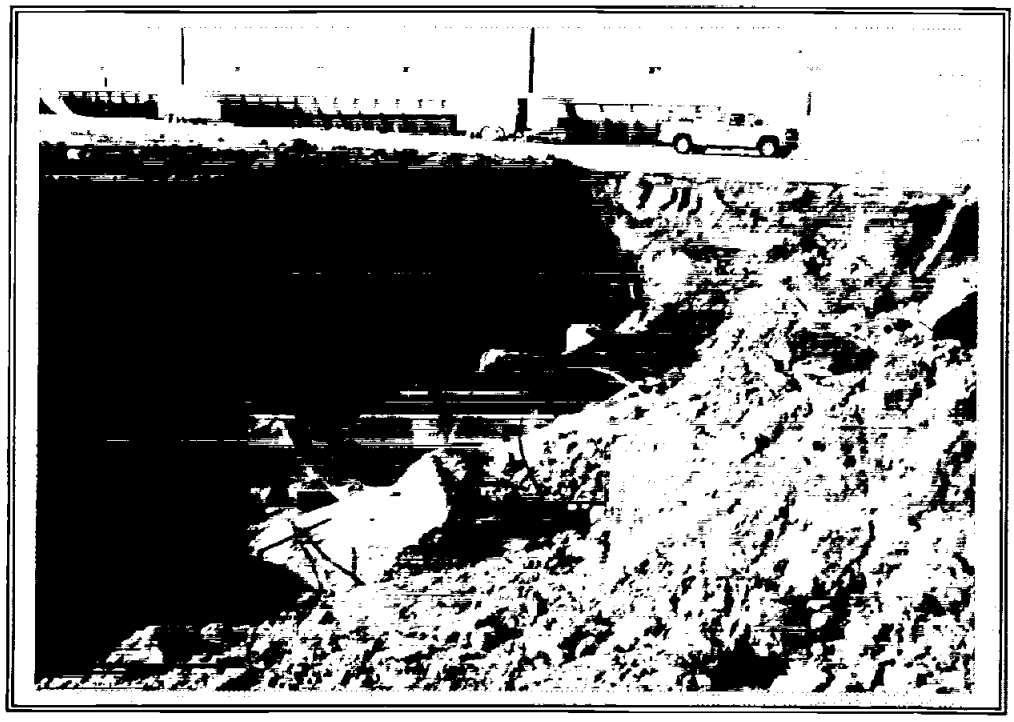


Photo 8: Tank hole, looking northeast.

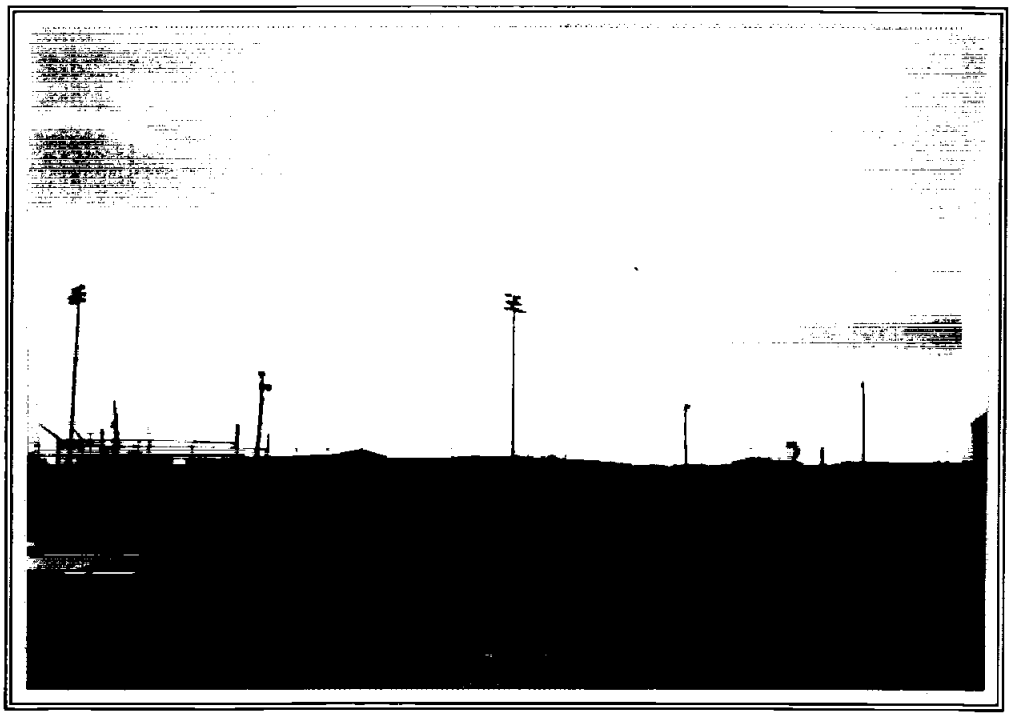


Photo 9: Site 4150 restored site. Looking west.

TAB

Waste Management and Disposition

WASTE MANAGEMENT AND DISPOSITION

Tanks and Piping

Eighteen (18) approximately 25,000 gallon capacity steel tanks were removed from Sites 4152, 4154, and 4150. The tanks were destroyed on-site and transported along with associated aboveground piping to Commercial Metals Co., Fort Worth, Texas for scrap iron.

Soils

At the direction of the Contracting Officer and in accordance with the terms of the delivery order all excavated soil was utilized in addition to imported fill to backfill the excavations.

Waters

No groundwater or surface water was encountered during these activities.

Phase Separated Product Sludge and Tank Contents

Fuels and rinsate water were transported off-site for recycling by Mobley Company, Corsicana Fuel Facility, Corsicana, Texas.

Treatment Waters

Not Applicable.

TAB

Appendices / Supporting Data

APPENDIX A:

UST/AST CERTIFICATES OF DESTRUCTION

CERTIFICATE OF DESTRUCTION

Date: 7-10-94

SCRAPPING/DISPOSAL COMPANY:	SITE OF DESTRUCTION:
Commercial Metals Co.	Building: 4150
601 N. Throckmorton	Carswell Air Force Base
Fort Worth, Texas	Fort Worth, Texas

TANK REMOVAL CONTRACTOR:

Perry Williams, Inc.
P.O. Box 30206
Amarillo, Texas 70120

TANK IDENTIFICATION:

Tank No:	4150-01
Size:	25,000 Gallon Steel

LOCATION:

Hydrant Fueling Station "B"
Site # 4150
Carswell Air Force Base.

DATE OF DESTRUCTION: 7-12-94

I certify that the above described tank has been rendered unsusable for the storage of fluids, and that all removed fluids, sludges, and the tanks, were disposed of in accordance with all applicable local, state, and federal regulations.

BY: [signature]

TITLE: Field Superintendent

CERTIFICATE OF DESTRUCTION

Date: 7-9-94

SCRAPPING/DISPOSAL COMPANY:	SITE OF DESTRUCTION:
Commercial Metals Co	Building: 4150
601 N. Throckmorton	Carswell Air Force Base
Fort Worth, Texas 76106	Fort Worth, Texas

TANK REMOVAL CONTRACTOR:

Perry Williams, Inc.
P.O. Box 30206
Amarillo, Texas 70120

TANK IDENTIFICATION:

Tank No: 4150-06
Size: 25,000 Gallon Steel

LOCATION:

Hydrant Fueling Stations "B"
Site # 4150
Carswell Air Force Base

DATE OF DESTRUCTION: 7-12-94

I certify that the above described tank has been rendered unsusable for the storage of fluids, and that all removed fluids, sludges, and the tanks, were disposed of in accordance with all applicable local, state, and federal regulations.

BY: [signature]

TITLE: Field Superintendent

CERTIFICATE OF DESTRUCTION

Date: 7-10-94

SCRAPPING/DISPOSAL COMPANY:	SITE OF DESTRUCTION:
Commercial Metals Co	Building: 4150
601 N. Throckmorton	Carswell Airforce Base
Fort Worth, Texas, 76106.	Fort Worth, Texas

TANK REMOVAL CONTRACTOR:

Perry Williams, Inc.
P.O. Box 30206
Amarillo, Texas 70120

TANK IDENTIFICATION:

Tank No:	4150-02
Size:	25,000 Gallon Steel

LOCATION:

Hydrant Fueling Stations "B"
Site # 4150
Carswell Airforce Base

DATE OF DESTRUCTION: 7-12-94

I certify that the above described tank has been rendered unsusable for the storage of fluids, and that all removed fluids, sludges, and the tanks, were disposed of in accordance with all applicable local, state, and federal regulations.

BY: [signature]

TITLE: Field Superintendent

CERTIFICATE OF DESTRUCTION

Date: 7-10-94

SCRAPPING/DISPOSAL COMPANY:

Commercial Metals Co.
601 N. Throckmorton
Fort Worth, Texas 76106

SITE OF DESTRUCTION:

Building: 4150
Carswell Airforce Base
Fort Worth, Texas

TANK REMOVAL CONTRACTOR:

Perry Williams, Inc.
P.O. Box 30206
Amarillo, Texas 70120

TANK IDENTIFICATION:

Tank No: 4150-04
Size: 25,000 Gallon Steel

LOCATION:

Hydrant Fueling Stations "B"
Site # 4150
Carswell Air Force Base.

DATE OF DESTRUCTION: 7-12-94

I certify that the above described tank has been rendered unusable for the storage of fluids, and that all removed fluids, sludges, and the tanks, were disposed of in accordance with all applicable local, state, and federal regulations.

BY: [signature]

TITLE: Field Superintendent

CERTIFICATE OF DESTRUCTION

Date: 7-10-94

SCRAPPING/DISPOSAL COMPANY:	SITE OF DESTRUCTION:
Commercial Metals Co.	Building: 4150
601 N. Throckmorton	Carswell Air Force Base
Fort Worth, Texas 76106	Fort Worth, Texas

TANK REMOVAL CONTRACTOR:

Perry Williams, Inc.
P.O. Box 30206
Amarillo, Texas 70120

TANK IDENTIFICATION:

Tank No: 4150-03
Size: 25,000 Gallon Steel

LOCATION:

Hydrant Fueling Stations "B"
Site # 4150
Carswell Air Force Base.

DATE OF DESTRUCTION: 7-12-94

I certify that the above described tank has been rendered unsusable for the storage of fluids, and that all removed fluids, sludges, and the tanks, were disposed of in accordance with all applicable local, state, and federal regulations.

BY: [signature]

TITLE: Field Superintendent

CERTIFICATE OF DESTRUCTION

Date: 7-10-94

SCRAPPING/DISPOSAL COMPANY:	SITE OF DESTRUCTION:
Commercial Metals Co.	Building: 4150
601 N. Throckmorton	Carswell Airforce Base
Fort Worth, Texas 76106	Fort Worth, Texas

TANK REMOVAL CONTRACTOR:

Perry Williams, Inc.
P.O. Box 30206
Amarillo, Texas 70120

TANK IDENTIFICATION:

Tank No: 4150-05
Size: 25,000 Gallon Steel

LOCATION:

Hydrant Fueling Station "B"
Site # 4150
Carswell Airforce Base

DATE OF DESTRUCTION: 7-12-94

I certify that the above described tank has been rendered unsusable for the storage of fluids, and that all removed fluids, sludges, and the tanks, were disposed of in accordance with all applicable local, state, and federal regulations.

BY: [signature]

TITLE: Field Superintendent

CERTIFICATE OF DESTRUCTION

Date: 6-30-94

SCRAPPING/DISPOSAL COMPANY:	SITE OF DESTRUCTION:
Commercial metals Co.	Building: 4152
601 N. Throckmorton	Carswell AFB
Fort Worth, Texas 76106	Fort Worth Texas

TANK REMOVAL CONTRACTOR:

Perry Williams, Inc.
P.O. Box 30206
Amarillo, Texas 70120

TANK IDENTIFICATION:

Tank No: 4152-01
Size: 25,000 Gallon Steel

LOCATION:

Hydrant Fueling Station "B"
Site 4152
Carswell Air Force Base

DATE OF DESTRUCTION: 7-13-94

I certify that the above described tank has been rendered unsusable for the storage of fluids, and that all removed fluids, sludges, and the tanks, were disposed of in accordance with all applicable local, state, and federal regulations.

BY: [signature]

TITLE: Field Superintendent

CERTIFICATE OF DESTRUCTION

Date: 6-30-94

SCRAPPING/DISPOSAL COMPANY:	SITE OF DESTRUCTION:
Commercial Metals Co.	Building: 4152
601 N. Throckmorton	Carswell AFB
Fort Worth, Texas 76106	Fort Worth, Texas

TANK REMOVAL CONTRACTOR:

Perry Williams, Inc.
P.O. Box 30206
Amarillo, Texas 70120

TANK IDENTIFICATION:

Tank No: 4152-02
Size: 25,000 Gallon Steel

LOCATION:

Hydrant Fueling Station "B"
Site 4152
Carswell AFB

DATE OF DESTRUCTION: 7-13-94

I certify that the above described tank has been rendered unsusable for the storage of fluids, and that all removed fluids, sludges, and the tanks, were disposed of in accordance with all applicable local, state, and federal regulations.

BY: [signature]

TITLE: Field Superintendent

CERTIFICATE OF DESTRUCTION

Date: 6-30-94

SCRAPPING/DISPOSAL COMPANY:	SITE OF DESTRUCTION:
Commercial Metals Co.	Building: 4152
601 N. Throckmorton	Carswell AFB
Fort Worth, Texas 76106	Fort Worth Texas

TANK REMOVAL CONTRACTOR:

Perry Williams, Inc.
P.O. Box 30206
Amarillo, Texas 70120

TANK IDENTIFICATION:

Tank No: 4152-03
Size: 25,000 Gallon Steel

LOCATION:

Hydrant Fueling Station "B"
Site 4152
Carswell Air Force Base.

DATE OF DESTRUCTION: 7-13-94

I certify that the above described tank has been rendered unsusable for the storage of fluids, and that all removed fluids, sludges, and the tanks, were disposed of in accordance with all applicable local, state, and federal regulations.

BY: [signature]

TITLE: Field Superintendent

CERTIFICATE OF DESTRUCTION

Date: 6-30-94

SCRAPPING/DISPOSAL COMPANY:	SITE OF DESTRUCTION:
Commercial Metals Co.	Building: 4152
601 N. Throckmorton	Carswell Air Force Base
Fort Worth, Texas 76106	Fort Worth, Texas

TANK REMOVAL CONTRACTOR:

Perry Williams, Inc.
P.O. Box 30206
Amarillo, Texas 70120

TANK IDENTIFICATION:

Tank No: 4152-04
Size: 25,000 Gallon Steel

LOCATION:

Hydrant Fueling Station "B"
Site 4152
Carswell Air Force Base.

DATE OF DESTRUCTION: 7-13-94

I certify that the above described tank has been rendered unsusable for the storage of fluids, and that all removed fluids, sludges, and the tanks, were disposed of in accordance with all applicable local, state, and federal regulations.

BY: [signature]

TITLE: Field Superintendent

CERTIFICATE OF DESTRUCTION

Date: 6-30-94

SCRAPPING/DISPOSAL COMPANY:

Commercial Metals Co.
601 N. Throckmorton
Fort Worth, Texas 76106

SITE OF DESTRUCTION:

Building: 4152
Carswell Air Force Base
Fort Worth, Texas

TANK REMOVAL CONTRACTOR:

Perry Williams, Inc.
P.O. Box 30206
Amarillo, Texas 70120

TANK IDENTIFICATION:

Tank No: ~~25,000~~ 4152-05
Size: 25,000 Gallon Steel

LOCATION:

Hydrant Fueling Station "B"
Site 4152
Carswell AFB

DATE OF DESTRUCTION: 7-13-94

I certify that the above described tank has been rendered unsusable for the storage of fluids, and that all removed fluids, sludges, and the tanks, were disposed of in accordance with all applicable local, state, and federal regulations.

BY: [signature]

TITLE: Field Superintendent

CERTIFICATE OF DESTRUCTION

Date: 6-30-94

SCRAPPING/DISPOSAL COMPANY:	SITE OF DESTRUCTION:
Commercial Metals Co.	Building: 4152
601 N. Throckmorton	Carswell Air Force Base
Fort Worth, Texas 76106	Fort Worth, Texas

TANK REMOVAL CONTRACTOR:

Perry Williams, Inc.
P.O. Box 30206
Amarillo, Texas 70120

TANK IDENTIFICATION:

Tank No:	4152-06
Size:	25,000 Gallon Steel

LOCATION:

Hydrant Fueling Station "B"
Site 4152
Carswell Air Force Base

DATE OF DESTRUCTION: 7-13-94

I certify that the above described tank has been rendered unusable for the storage of fluids, and that all removed fluids, sludges, and the tanks, were disposed of in accordance with all applicable local, state, and federal regulations.

BY: [signature]

TITLE: Field Superintendent

CERTIFICATE OF DESTRUCTION

Date: 7-7-94

SCRAPPING/DISPOSAL COMPANY:	SITE OF DESTRUCTION:
Commercial Metals Co.	Building: 4154
601 N. Throckmorton	Carswell AFB.
Fort Worth, Texas 76106	Fort Worth, Texas

TANK REMOVAL CONTRACTOR:

Perry Williams, Inc.
P.O. Box 30206
Amarillo, Texas 70120

TANK IDENTIFICATION:

Tank No:	4154-01
Size:	25,000 Gallon Steel

LOCATION:

Hydrant Fueling Station "B"
Site 4154
Carswell, Air Force Base.

DATE OF DESTRUCTION: 7-14-94

I certify that the above described tank has been rendered unusable for the storage of fluids, and that all removed fluids, sludges, and the tanks, were disposed of in accordance with all applicable local, state, and federal regulations.

BY: [signature]

TITLE: Field Superintendent

CERTIFICATE OF DESTRUCTION

Date: 7-7-94

SCRAPPING/DISPOSAL COMPANY:

Commercial metals Co
601 N. Throckmorton
Fort Worth, Texas 76106

SITE OF DESTRUCTION:

Building: 4154
Carswell AFB
Fort Worth, Texas

TANK REMOVAL CONTRACTOR:

Perry Williams, Inc.
P.O. Box 30206
Amarillo, Texas 70120

TANK IDENTIFICATION:

Tank No: 4154-02
Size: 25,000 Gallon Steel

LOCATION:

Hydrant Fueling Station "B"
Site # 4154
Carswell Airforce Base.

DATE OF DESTRUCTION: 7-14-94

I certify that the above described tank has been rendered unusable for the storage of fluids, and that all removed fluids, sludges, and the tanks, were disposed of in accordance with all applicable local, state, and federal regulations.

BY: [signature]

TITLE: Field Superintendent

CERTIFICATE OF DESTRUCTION

Date: 7-7-94

SCRAPPING/DISPOSAL COMPANY:	SITE OF DESTRUCTION:
Commercial Metals Co.	Building: 4154
601 N. Throckmorton	Carswell AFB
Fort Worth, Texas 76106	Fort Worth, Texas

TANK REMOVAL CONTRACTOR:

Perry Williams, Inc.
P.O. Box 30206
Amarillo, Texas 70120

TANK IDENTIFICATION:

Tank No: 4154-03
Size: 25,000 Gallon Steel

LOCATION:

Hydrant Fueling Station "B"
Site # 4154
Carswell Airforce Base

DATE OF DESTRUCTION: 7-14-94

I certify that the above described tank has been rendered unusable for the storage of fluids, and that all removed fluids, sludges, and the tanks, were disposed of in accordance with all applicable local, state, and federal regulations.

BY: [signature]

TITLE: Field Superintendent

CERTIFICATE OF DESTRUCTION

Date: 7-7-94

SCRAPPING/DISPOSAL COMPANY:	SITE OF DESTRUCTION:
Commercial Metals Co	Building: 4154
601 N. Throckmorton	Carswell Airforce Base
Fort Worth, Texas 76106	Fort Worth, Texas

TANK REMOVAL CONTRACTOR:

Perry Williams, Inc.
P.O. Box 30206
Amarillo, Texas 70120

TANK IDENTIFICATION:

Tank No:	4154-04
Size:	25,000 ~~[illegible]~~ Gallon Steel

LOCATION:

Hydrant Fueling Station "B"
Site # 4154
Carswell Air Force Base.

DATE OF DESTRUCTION: 7-14-94

I certify that the above described tank has been rendered unsusable for the storage of fluids, and that all removed fluids, sludges, and the tanks, were disposed of in accordance with all applicable local, state, and federal regulations.

BY: [signature]

TITLE: Field Superintendent

CERTIFICATE OF DESTRUCTION

Date: 7-7-94

SCRAPPING/DISPOSAL COMPANY:	SITE OF DESTRUCTION:
Commercial Metals Co.	Building: 4154
601 N. Throckmorton	Carswell Airforce Base
Fort Worth, Texas 76106	Fort Worth, Texas

TANK REMOVAL CONTRACTOR:

Perry Williams, Inc.
P.O. Box 30206
Amarillo, Texas 70120

TANK IDENTIFICATION:

Tank No: 4154-05
Size: 25,000 Gallon Steel

LOCATION:

Hydrant Fueling Station "B"
Site # 4154
Carswell Airforce Base.

DATE OF DESTRUCTION: 7-14-94

I certify that the above described tank has been rendered unsusable for the storage of fluids, and that all removed fluids, sludges, and the tanks, were disposed of in accordance with all applicable local, state, and federal regulations.

BY: [signature]

TITLE: Field Superintendent

CERTIFICATE OF DESTRUCTION

Date: 7-7-94

SCRAPPING/DISPOSAL COMPANY:	SITE OF DESTRUCTION:
Commercial metals Co.	Building: 4154
601 N. Throckmorton	Carswell Airforce Base
Fort Worth, Texas 76106	Fort Worth, Texas

TANK REMOVAL CONTRACTOR:

Perry Williams, Inc.
P.O. Box 30206
Amarillo, Texas 70120

TANK IDENTIFICATION:

Tank No: 4154-06
Size: 25,000 Gallon Steel

LOCATION:

Hydrant Fueling Station "B"
Site # 4154
Carswell Airforce Base

DATE OF DESTRUCTION: 7-14-94

I certify that the above described tank has been rendered unsusable for the storage of fluids, and that all removed fluids, sludges, and the tanks, were disposed of in accordance with all applicable local, state, and federal regulations.

BY: [signature]

TITLE: Field Superintendent

APPENDIX B:

TANK CONTENTS MANIFEST

MOBLEY COMPANY 351101
UST REMEDIATION FLUID / OFF-SPECIFICATION PRODUCT MANIFEST

№ 67476

CHARACTERIZATION INFORMATION

Generating Facility Name: Carswell AFB USAF

Generating Facility Address: Hydrant Fueling Stations "B" Site 4152

Business Name: Carswell Airforce Base

Mailing Address: Chief Environmental Engineer AFBCA/OLH Bldg 1215 Carswell AFB Fort Worth TX 76127-5000

Telephone (817) 731-8758

Contractor Name/Contact: Perry Williams Inc / John Stevenso

Process Generating the Fluid (Check the Appropriate Process/Fluid Type):

Underground Storage Tank Remediation/Corrective Action
- ☐ Unleaded Gasoline
- ☐ Diesel
- ☒ Aviation Fuel Defueling Line 8"
- ☐ Tank Hold Evacuation
- ☐ UST Monitoring Well Fluid

Maintenance of PST
- ☐ Unleaded Gasoline
- ☐ Diesel
- ☐ Aviation Fuel
- ☐ Fuel Oil

Total Quantity (Gallons): Bulk (✓) 2700 Drum Evacuation ( )

I certify that the material removed from the above premises is not hazardous waste as identified in 40 CFR Part 261, and does not contain spent solvents or PCBs as identified in 40 CFR Part 761.

Generator Representative (Print): Frank Gary Title: Chief Environmental Engnr

Signature: Donnie B White / on Behalf of Date of Service: 7-8-94

TRANSPORTER INFORMATION

Name Mobley Co., Inc. Telephone 800-999-8628

EPA Transporter ID TXD000807925 State ID 40303 Truck No. 79

Driver's Name (Print) Dwyn Trucked Direct to Plant? Y / N

7-8-94 Date

Driver's Signature

MOBLEY COMPANY CORSICANA FUEL FACILITY

Address: 2124 Highway 31 East

City/State: Corsicana, TX 75110

Telephone: 903-874-1188

EPA ID TXD988059291 TWC Reg. No. 20095

I certify that I have received into this facility the above listed product.

Facility Operator's Name (Print) Billy Payne

7-8-94 Date Received

Facility Operator's Signature

White - Generator - Original Canary - TSD Pink - Transporter Gold - Generator's 1st Copy

THE PRINT SHOP-MARSHALL
REV. 9-92

MOBLEY COMPANY
UST REMEDIATION FLUID / OFF-SPECIFICATION PRODUCT MANIFEST

351102

№ 67726

CHARACTERIZATION INFORMATION

Generating Facility Name: U.S. Air Force

Generating Facility Address: Hydrant Fueling Stations "B" Site 4150

Business Name: Carswell Air Force Base

Mailing Address: Chief Environmental Engineer AFBCA/OLH Bldg 1215 Carswell AFB Fort Worth TX 76127-5000

Telephone (817) 731-8758

Contractor Name/Contact: Perry Williams Inc./John Stevenson

Process Generating the Fluid (Check the Appropriate Process/Fluid Type):

Underground Storage Tank Remediation/Corrective Action
- ☐ Unleaded Gasoline
- ☐ Diesel
- ☒ Aviation Fuel
- ☐ Tank Hold Evacuation
- ☐ UST Monitoring Well Fluid

Maintenance of PST
- ☐ Unleaded Gasoline
- ☐ Diesel
- ☐ Aviation Fuel
- ☐ Fuel Oil

Total Quantity (Gallons): Bulk (✓ 1364 Drum Evacuation ( )

I certify that the material removed from the above premises is not hazardous waste as identified in 40 CFR Part 261, and does not contain spent solvents or PCBs as identified in 40 CFR Part 761.

Generator Representative (Print): Frank Gary Title: Chief Environmental Engr

Signature: Donna B. White /on Behalf of Date of Service: 7-9-94

TRANSPORTER INFORMATION

Name Mobley Co., Inc. Telephone 800-999-8628

EPA Transporter ID TXD000807925 State ID 40303 Truck No. 62

Driver's Name (Print) Doug Nelson Trucked Direct to Plant? Y / (N)

7/9/94 Date

Doug Nelson Driver's Signature

MOBLEY COMPANY CORSICANA FUEL FACILITY

Address: 2124 Highway 31 East

City/State: Corsicana, TX 75110

Telephone: 903-874-1188

EPA ID TXD988059291 TWC Reg. No. 20095

I certify that I have received into this facility the above listed product.

Facility Operator's Name (Print) Paul Stewart

7-11-94 Date Received

Facility Operator's Signature

White - Generator - Original Canary - TSD Pink - Transporter Gold - Generator's 1st Copy

THE PRINT SHOP-MARSHALL
REV. 9-92

MOBLEY COMPANY
UST REMEDIATION FLUID / OFF-SPECIFICATION PRODUCT MANIFEST

351193

№ 66674

CHARACTERIZATION INFORMATION

Generating Facility Name: USAF AFB Carswell

Generating Facility Address: Hydrant Fueling Stations "B" Site 4150

Business Name: Carswell AFB

Mailing Address: Chief Environmental Engineer AFBCA/OLH Bldg 1215 Carswell AFB Fort Worth Tx 76127-5000

Telephone (817) 731-8758

Contractor Name/Contact: Perry Williams Inc / John Stevenson

Process Generating the Fluid (Check the Appropriate Process/Fluid Type):

Underground Storage Tank Remediation/Corrective Action
- ☐ Unleaded Gasoline
- ☐ Diesel
- ☒ Aviation Fuel
- ☐ Tank Hold Evacuation
- ☐ UST Monitoring Well Fluid

Maintenance of PST
- ☐ Unleaded Gasoline
- ☐ Diesel
- ☒ Aviation Fuel
- ☐ Fuel Oil

Total Quantity (Gallons): Bulk (X) 2019 Gals Drum Evacuation ( )

I certify that the material removed from the above premises is not hazardous waste as identified in 40 CFR Part 261, and does not contain spent solvents or PCBs as identified in 40 CFR Part 761.

Generator Representative (Print): Frank Gary Title: Chief Environmental Engr.

Signature: Donnie B. White / on Behalf of Date of Service: 7-8-94

TRANSPORTER INFORMATION

Name Mobley Co., Inc. DALLAS Telephone 800-999-8628

EPA Transporter ID TXD000807925 State ID 40303 Truck No. 03

Driver's Name (Print) JACK POWERS Trucked Direct to Plant? (Y) / N

7-8-94 Date

Jack Powers Driver's Signature

MOBLEY COMPANY CORSICANA FUEL FACILITY

Address: 2124 Highway 31 East

City/State: Corsicana, TX 75110

Telephone: 903-874-1188

EPA ID TXD988059291 TWC Reg. No. 20095

I certify that I have received into this facility the above listed product.

Facility Operator's Name (Print) DANNY GIBSON

7-9-94 Date Received

Danny Gibson Facility Operator's Signature

White - Generator - Original Canary - TSD Pink - Transporter Gold - Generator's 1st Copy

THE PRINT SHOP-MARSHALL
REV. 9-92

351194

APPENDIX G:

TANK RESIDUES

351105

MOBLEY COMPANY
UST REMEDIATION FLUID / OFF-SPECIFICATION PRODUCT MANIFEST

№ 66539

CHARACTERIZATION INFORMATION

Generating Facility Name: U.S. Air Force

Generating Facility Address: Hydrant Fueling Stations 'B' Site 4152

Business Name: Carswell Air Force Base

Mailing Address: Chief Environmental Engineer, AFBCA/OLH Bldg 1215 Carswell AFB Ft Worth Tx 76127-5000

Telephone (817) 731-8758

Contractor Name/Contact: Perry Williams Inc / John Stevenson

Process Generating the Fluid (Check the Appropriate Process/Fluid Type):

Underground Storage Tank Remediation/Corrective Action
- ☐ Unleaded Gasoline
- ☒ Diesel — wash out 6 - 25,000 Gals Tanks
- ☐ Aviation Fuel
- ☐ Tank Hold Evacuation
- ☐ UST Monitoring Well Fluid

Maintenance of PST
- ☐ Unleaded Gasoline
- ☐ Diesel
- ☐ Aviation Fuel
- ☐ Fuel Oil

Total Quantity (Gallons): Bulk (✓ 900 gal Drum Evacuation ( )

I certify that the material removed from the above premises is not hazardous waste as identified in 40 CFR Part 261, and does not contain spent solvents or PCBs as identified in 40 CFR Part 761.

Generator Representative (Print): Frank Gary Title: Chief Environment Eng.

Signature: Walter L. Carlock / On Behalf of Date of Service: 6-30-94

TRANSPORTER INFORMATION

Name Mobley Co., Inc. Telephone 800-999-8628

EPA Transporter ID TXD000807925 State ID 40303 Truck No. 79

Driver's Name (Print) Deyon Trucked Direct to Plant? Y / (N)

6-30-94 Date

Driver's Signature

MOBLEY COMPANY CORSICANA FUEL FACILITY

Address: 2124 Highway 31 East

City/State: Corsicana, TX 75110

Telephone: 903-874-1188

EPA ID TXD988059291 TWC Reg. No. 20095

I certify that I have received into this facility the above listed product.

Facility Operator's Name (Print) Paul Stewart

6-30-94 Date Received

Facility Operator's Signature

White - Generator - Original Canary - TSD Pink - Transporter Gold - Generator's 1st Copy

THE PRINT SHOP-MARSHALL
REV. 9-92

MOBLEY COMPANY 351196
UST REMEDIATION FLUID / OFF-SPECIFICATION PRODUCT MANIFEST

№ 66671

CHARACTERIZATION INFORMATION

Generating Facility Name: U.S. Air Force

Generating Facility Address: Hydrant Fueling Stations "B" Site 4152A

Business Name: Carswell Air Force Base

Mailing Address: Chief Environmental Engineer, AFBCA/OLH Bldg. 1215 Carswell AFB Fort Worth TX 76127-5000

Telephone (817-) 731- 8758

Contractor Name/Contact: Perry Williams Inc / John Stevenson Project Mangr.

Process Generating the Fluid (Check the Appropriate Process/Fluid Type):

Underground Storage Tank Remediation/Corrective Action
- ☐ Unleaded Gasoline
- ☒ Diesel wash out 6-25000 Gal. UST's
- ☐ Aviation Fuel
- ☐ Tank Hold Evacuation
- ☐ UST Monitoring Well Fluid

Maintenance of PST
- ☐ Unleaded Gasoline
- ☐ Diesel
- ☐ Aviation Fuel
- ☐ Fuel Oil

Total Quantity (Gallons): Bulk (x) 1033 GALS Drum Evacuation ( )

I certify that the material removed from the above premises is not hazardous waste as identified in 40 CFR Part 261, and does not contain spent solvents or PCBs as identified in 40 CFR Part 761.

Generator Representative (Print): Frank Gary Title: Chief Environmental Engr.

Signature: Donnie B White / ON Behalf OF USACE Date of Service: 7-7-94

TRANSPORTER INFORMATION

Name Mobley Co., Inc. DALLAS Telephone 800-999-8628

EPA Transporter ID TXD000807925 State ID 40303 Truck No. 63

Driver's Name (Print) JACK POWERS Trucked Direct to Plant? Y / (N)

7-7-94 Date

Jack Powers Driver's Signature

MOBLEY COMPANY CORSICANA FUEL FACILITY

Address: 2124 Highway 31 East

City/State: Corsicana, TX 75110

Telephone: 903-874-1188

EPA ID TXD988059291 TWC Reg. No. 20095

I certify that I have received into this facility the above listed product.

Facility Operator's Name (Print) Paul Stewart

7-11-94 Date Received

Facility Operator's Signature

White - Generator - Original Canary - TSD Pink - Transporter Gold - Generator's 1st Copy

THE PRINT SHOP-MARSHALL
REV. 9-92

351107

MOBLEY COMPANY
UST REMEDIATION FLUID / OFF-SPECIFICATION PRODUCT MANIFEST

№ 67477

CHARACTERIZATION INFORMATION

Generating Facility Name: U.S. Air Force

Generating Facility Address: Hydrant fueling Stations "B" Site 4150

Business Name: Carswell Air Force Base

Mailing Address: Cheif Environmental Engineer AFBCA/OLH Bldg 1215 Carswell AFB Fort Worth TX 76127-500

Telephone (817) 731-8758

Contractor Name/Contact: Perry Williams Inc./John Stevenson

Process Generating the Fluid (Check the Appropriate Process/Fluid Type):

Underground Storage Tank Remediation/Corrective Action
- ☐ Unleaded Gasoline
- ☐ Diesel
- ☑ Aviation Fuel Triple Rinse Tank #'s 1, 2, 3, 4, 5, 6,
- ☐ Tank Hold Evacuation
- ☐ UST Monitoring Well Fluid

Maintenance of PST
- ☐ Unleaded Gasoline
- ☐ Diesel
- ☐ Aviation Fuel
- ☐ Fuel Oil

Total Quantity (Gallons): Bulk (✓) 450 Drum Evacuation ( )

I certify that the material removed from the above premises is not hazardous waste as identified in 40 CFR Part 261, and does not contain spent solvents or PCBs as identified in 40 CFR Part 761.

Generator Representative (Print): Frank Gary Title: Cheif Environmental Engnr.

Signature: Donnie B White / ON Behalf OF Date of Service: 7-11-94

TRANSPORTER INFORMATION

Name Mobley Co., Inc. Telephone 800-999-8628

EPA Transporter ID TXD000807925 State ID 40303 Truck No. 79

Driver's Name (Print) Dryon Trucked Direct to Plant? Y / N

7-11-94 [signature]

Date Driver's Signature

MOBLEY COMPANY CORSICANA FUEL FACILITY

Address: 2124 Highway 31 East

City/State: Corsicana, TX 75110

Telephone: 903-874-1188

EPA ID TXD988059291 TWC Reg. No. 20095

I certify that I have received into this facility the above listed product.

Facility Operator's Name (Print) Paul Stewart

7-11-94 [signature]

Date Received Facility Operator's Signature

White - Generator - Original Canary - TSD Pink - Transporter Gold - Generator's 1st Copy

THE PRINT SHOP-MARSHALL
REV. 9-92

351198

APPENDIX H:

TEXAS NATURAL RESOURCES CONSERVATION COMMISSION

TEXAS WATER COMMISSION 351109

UNDERGROUND STORAGE TANK (UST) CONSTRUCTION NOTIFICATION FORM

This form is provided to assist UST owners in complying with the construction notification requirements of TWC Rules, 31 TAC Chapter 334. The completion and filing of this form within the prescribed time would satisfy these requirements.

TYPE OF CONSTRUCTION: (Indicate all that apply.)

___ Installation ___ Addition X Removal ___ Other (Specify) _____

___ Replacement ___ Improvement ___ Abandonment _____

FACILITY LOCATION INFORMATION:

Facility Name: Hydrant Fueling Stations 'A','B' & 'D'

Address/Location: Carswell Air Force Base

County: Tarrant City: Ft. Worth

UST Facility No. (If Known): _____

Telephone: No phone

3. OWNER INFORMATION:

Owner: U.S. Air Force

Representative: Frank Grey

Title: Chief Environmental Engineer

Address: AFBCA/OLH Building 1215

City/State/Zip: Carswell AFB, Ft. Worth, Tx. 76127-5000

Telephone: (817) 731-8758

4. UST CONSULTANT INFORMATION:

Company: U.S.Army Corps of Engineers

Representative: Todd Smith

Address: 701 Camp Wisdom Rd.

City/State/Zip: Grand Prairie, Tx. 75052-2404

Telephone: (214) 264-0291

5. UST CONTRACTOR INFORMATION:

Company: Perry Williams, Inc.

Representative: Perry Williams

Address: P.O. Box 30206

City/State/Zip: Amarillo, Texas 79120

Telephone: (806) 373-5820

6. GENERAL DESCRIPTION OF PROPOSED UST ACTIVITY: (Describe all new or replacement tanks and other UST system components. Include closure procedures for UST abandonments or removals. Attach information as appropriate.)

*In addition to the 30-day written notification required by 334.6(b)(2), the owner shall contact the appropriate district office 24 - 72 hours prior to the start of construction activity 334.6(b)(2)(C).

Removal and disposal of 18 UST's at Building numbers 4150, 4152 and 4154

Located at Carswell Air Force Base, Ft. Worth, Texas

7. SCHEDULE/DATES FOR PROPOSED CONSTRUCTION:

5-12-94

8. SUBMITTED BY: Perry Williams DATE: 4-12-94

Title & Company: President of Perry Williams, Inc.

9. MAIL COMPLETED FORM TO:

Texas Water Commission
Underground Storage Tank Section
P.O. Box 13087, Capitol Station
Austin, Texas 78711-3087

FOR TWC STAFF USE ONLY

Date Rec'd _____ Type Notice: _____

District _____ Dist. Rep. _____

Remarks _____

Logged by: _____ Date: _____

351110

Perry Williams, Inc.

P.O. Box 30206 • Amarillo, Texas 79120

WC Environmental Group
Williams Contracting
Williams Ditching

April 18, 1994

Texas Natural Resource Conservation Commission
Attn: Jim Hussey
1019 N. Duncanville Rd.
Duncanville, Texas 75116-2201

Dear Mr. Hussey,

We would like to have the 30 day notification for the tank removals waived so that we can start the removal of the storage tanks at Buildings 4150, 4152 & 4154 at Carswell Air Force Base located in Ft. Worth, Texas. We would like to proceed with the removal immediately.

Thank you,

Perry Williams

Perry Williams, President
Perry Williams, Inc.

Office (806) 373-5820 • Toll Free 1-800-445-1249 • FAX (806) 371-0340

351111

APPENDIX I:

U.S. CORPS OF ENGINEERS

DEPARTMENT OF THE ARMY
FORT WORTH DISTRICT, CORPS OF ENGINEERS
701 CAMP WISDOM ROAD
GRAND PRAIRIE, TEXAS 75052-2404

REPLY TO
ATTENTION OF:

May 17, 1994

North Texas Area Office

SUBJECT: Contract No. DACW63-92-D-0046, Delivery Order #013, Indefinite Quantity Contract for Removal and Disposal of Underground Storage Tanks, Various Locations in Texas and Louisiana (Zone 3).

Perry Williams, Incorporated
Post Office Box 30206
Amarillo, Texas 79120

Gentlemen:

This letter serves as your authorization to begin work on Delivery Order No. 13. You are requested to acknowledge receipt of this letter in the space provided below and return an acknowledged copy of this letter to me at the following address:

Area Engineer
North Texas Area Office
701 Camp Wisdom Road
Grand Prairie, Texas 75052-2404

You are reminded that, in accordance with the terms of Delivery Order No. 13 you have one hundred and twenty (120) calendar days from receipt of this letter to complete this work.

Sincerely,

Kent C. Hatcher, P.E.
Area Engineer

Receipt is acknowledged:

NAME _____ DATE _____

TITLE _____

ORDER FOR SUPPLIES OR SERVICES

(Contractor must submit four copies of invoice.)

Form Approved
OMB No. 0704-0187
Expires Aug 31, 1992

ublic reporting burden for this collection of information is estimated to average 1 hour per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information including suggestions for reducing this burden, to Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0187), Washington, DC 20503. Please DO NOT RETURN your form to either of these addresses. Send your completed form to the procurement official identified in item 8.

1. CONTRACT / PURCH ORDER NO: DACA63-92-D-0046
2. DELIVERY ORDER NO.: 0013
3. DATE OF ORDER: 04/05/94
4. REQUISITION / PURCH REQUEST NO.: A6392D-0046-0013
5. PRIORITY:

6. ISSUED BY — CODE DACA63
US ARMY ENGINEER DISTRICT, FTW
P O BOX 17300
819 TAYLOR ST
FT. WORTH TX 76102-0300
PHIL GREEN C28 (817) 334-3352

7. ADMINISTERED BY (If other than 6) — CODE DACA63
See Block 6

8. DELIVERY FOB
☐ DEST
☒ OTHER
(See Schedule if other)

9. CONTRACTOR — CODE 0T5N3 — FACILITY CODE
Vendor Id: 20011276
NAME AND ADDRESS
PERRY WILLIAMS, INC.
P.O. BOX 30206
AMARILLO TX 79120

DUPLICATE ORIGINAL

10. DELIVER TO FOB POINT BY (Date): 08/09/94
11. MARK IF BUSINESS IS
☒ SMALL
☐ SMALL DISADVANTAGED
☐ WOMEN-OWNED
12. DISCOUNT TERMS: 0% 00 Days Net 030
13. MAIL INVOICES TO: See Block 14

14. SHIP TO — CODE fao-nt
US ARMY ENGINEER DISTRICT, FTW
NORTH TEXAS AREA OFFICE
701 CAMP WISDOM ROAD
GRAND PRAIRIE TX 75052-2404
DACA6392D0046

15. PAYMENT WILL BE MADE BY — CODE PAYOFF
DISBURSING OFFICER/CESWF-RM-FE
US ARMY ENGINEER DISTRICT, FTW
P O BOX 17300
FT. WORTH TX 76102-0300

MARK ALL PACKAGES AND PAPERS WITH CONTRACT OR ORDER NUMBER

16. TYPE OF ORDER

DELIVERY	X	This delivery order is issued on another Government agency or in accordance with and subject to terms and conditions of above numbered contract.
PURCHASE		Reference your furnish the following on terms specified herein. ACCEPTANCE. THE CONTRACTOR HEREBY ACCEPTS THE OFFER REPRESENTED BY THE NUMBERED PURCHASE ORDER AS IT MAY PREVIOUSLY HAVE BEEN OR IS NOW MODIFIED, SUBJECT TO ALL OF THE TERMS AND CONDITIONS SET FORTH, AND AGREES TO PERFORM THE SAME.

NAME OF CONTRACTOR | SIGNATURE | TYPED NAME AND TITLE | DATE SIGNED

☐ If this box is marked, supplier must sign Acceptance and return the following number of copies:

17. ACCOUNTING AND APPROPRIATION DATA / LOCAL USE
2142050 08-8073 P7000 S41443 HC/RK45034250CS046 3210-284 — Award Oblig Amt US$ 574,357.15

18. ITEM NO.	19. SCHEDULE OF SUPPLIES / SERVICE	20. QUANTITY ORDERED/ ACCEPTED*	21. UNIT	22. UNIT PRICE	23. AMOUNT
	8013-UST Removal, removal and disposal of eighteen (18) underground petroleum storage tanks, including tank contents, related aboveground piping and structures, backfilling, site restoration and all required testing and reports at Building Nos. 4150, 4152, and 4154 (Hydrant Fueling Station 'A', 'B', and 'D' respectively), Carswell Air	1.00	EA	574357.150000	574357.15

FUNDS ARE AVAILABLE
APR - 5 1994
For R. T. Geiger, F&A Officer

*If quantity accepted by the Government is same as quantity ordered, indicate by X. If different, enter actual quantity accepted below quantity ordered and encircle.

24. UNITED STATES OF AMERICA
BY: LESLIE E GUY K25 4/5/94
CONTRACTING/ORDERING OFFICER

25. TOTAL $ 574357.15
26. DIFFERENCES

26. QUANTITY IN COLUMN 20 HAS BEEN
☐ INSPECTED ☐ RECEIVED ☐ ACCEPTED, AND CONFORMS TO THE CONTRACT EXCEPT AS NOTED
DATE | SIGNATURE OF AUTHORIZED GOVERNMENT REPRESENTATIVE

27. SHIP. NO.
☐ PARTIAL
☐ FINAL

28. D.O. VOUCHER NO.

30. INITIALS

32. PAID BY

33. AMOUNT VERIFIED CORRECT FOR

36. I certify this account is correct and proper for payment.
DATE | SIGNATURE AND TITLE OF CERTIFYING OFFICER

31. PAYMENT
☐ COMPLETE
☐ PARTIAL
☐ FINAL

34. CHECK NUMBER

35. BILL OF LADING NO.

37. RECEIVED AT | 38. RECEIVED BY | 39. DATE RECEIVED | 40. TOT. CONTAINERS | 41. S/R ACCOUNT NUMBER | 42. S/R VOUCHER NO.

APPENDIX K:

XEROX COPIES OF FIELD SITE BOOK

CARSWELL AFB

REMOVE 18 25,000 GAL TANKS @ 4150, 4152 & 4154

6-27-94

- MOBILIZED EQUIPMENT TO JOB SITE
- CONTACTED RON SHARBER @ TNRCC (214) 298-6171 & INFORMED HIM OF PROJECT STARTING. HE REQUESTED THAT WE NOTIFY HIM WHEN TANKS WERE GOING TO BE REMOVED SO THEY COULD HAVE SOMEBODY ON SITE TO INSPECT.
- REQUESTED CARSWELL TO DISCONNECT ELECTRICITY FROM BUILDINGS 4150, 4152 & 4154
- SECURED PERSONNEL BADGES & VEHICLE PASSES

6-28-94

- BEGAN DEMOLITION OF BUILDING 4150. VERIFIED WITH ALAN FLOLO THAT ALL EQUIPMENT ASSOCIATED WITH UST SYSTEMS WAS TO BE DEMOLISHED & NONE SAVED AS SALVAGE.
- BEGAN EXCAVATION OF TANKS AT BLDG 4152
- ALAN FLOLO INFORMED US THAT JET FUEL TRANSFER LINE FROM AST'S HAD BEEN DISCONNECTED & VACUUMED OUT.

6-29-94

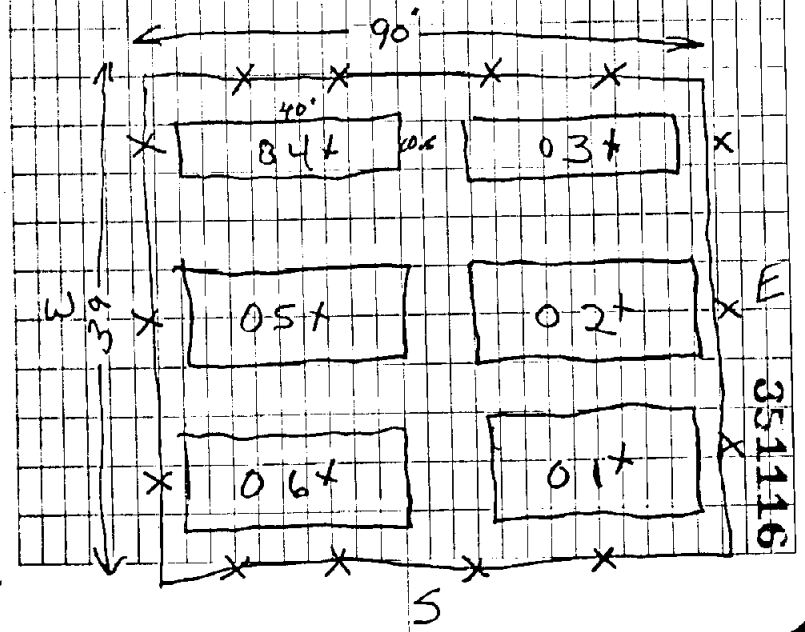
- CONTINUED CONCRETE DEMOLITION ON SLAB OVER TANKS AT BLDG 4152
- CONTINUED EXCAVATION OF TANKS AT BUILDING 4152

95

6-30-94

- REMOVED 6 25,000 GALLON TANKS AT BLDG 4152 AFTER MOBLEY REMOVED RESIDUAL FLUIDS AND RINSED TANKS. SAMPLED STOCKPILE AND TANKHOLD. Removed TANK # 06 at 13:00 TANK 05 at 14:30 TANK 04 at 15:20 TANK 01 at 16:00 TANK 02 at 16:45 TANK 03 at 17:15 after mobley Removed 900 gallons of fluids from all TANKS. Sampled TANK hole and Stock Pile

TANK Hole: 90'x39'x14'



351116

6-30-94	Time	Jar Serial #
CAFB·4152·01·SEW		B886473
CAFB-4152·01·SW		B886458
CAFB·4152·01·EW		B886457
CAFB·4152·02·EW		B886472
CAFB·4152·03·EW		B886475
CAFB·4152·03·NEW		B886462
CAFB·4152·03·NW		B886461
CAFB·4152·04 NW		B886474
CAFB·4152·04 NWW		B886484
CAFB·4152·04 WW		B886450
CAFB·415205· WW		B886465
CAFB·4152·05· WW/QC		B886480
CAFB·4152·06 WW		B886477
CAFB·4152·06 SWW		B886487
CAFB·4152·06 SW		B886468
CAFB·4152·01·BH		B886490
CAFB·4152·02·BH		B886442
CAFB·4152·03·BH		B886470
CAFB·4152·04·BH		B886489
CAFB·4152·04·BH/QC		B886460
CAFB·4152·05·BH		B886486
CAFB·4152·06 BH		B886493
CAFB·4152·05 WW/QA		A2924536
CAFB·4152·04 BH/QA		A2924538

96

6-30-94

Stockpile measured	X	X
CAFB·4152·SPA		
CAFB·4152·SPB		
CAFB·4152·SPC		
CAFB·4152·SPD		
CAFB·4152·SPE		
CAFB·4152SPF		
CAFB·4152·SPG		
CAFB·4152·SPH		
CAFB·4152·SPI		
CAFB·4152·SPJ		
CAFB·4152·SPK		
CAFB·4152·SPA/QC		
CAFB·4152·SPK/QA/QC		

Secured Site with Barricades Left for day.

351117

7-5-94 Temp 97° Rainfall Ø
Sunny Hot + Windy
Walter Carlock — Supervisor
Donnie White — Safety Officer
Jose Villione — Laborer

Begin to Back Fill Site 4152 and
removing Concrete From Site
Delivered QA Samples to
Corps QA Lab at 14:45

97

7-6-94 Temp 74/95° Rainfall .75
Cloudy, Windy, Raining
Walter Carlock Supervisor
Donnie White Safety Officer
Jose Villione Laborer/Equip Operator
Sites 4152, 4154
Continued to Back Fill Site # 4152
unable to bring in any more back fill
or haul off any concrete do to Rain
Conditions, Begin to Demo building
4154. Had water Supply Shut off to
Building 4154 by CAFB Utility OP's
Personnel Phone # (377-9811 Jeff)
Buiding Demolished at 10:45 Am
begin busting of concrete slab over
tanks at Site 4152 all concrete
and Piping stock piled begin
tank excavation, Had to shut
off water Supply at main by
Caping and plugging water had
been leaking into tank hole for
Quite a while all excavated
material came out Soupy. on
South Side of tank hole where water line
been leaking

351118

7-7-94 Temp 77/97° Rainfall 0

Clear, Hot, Humid

Walter Carlock - Supervisor

Donnie White - Safety Officer

Jose Villalon - Equipment Operator

Sites 4152, 4154 Tank #6 was checked with a CGI L.E.L. was 1% Tox was 1% Ox was 20.9% Tank 6 was Pulled at 11:20 Arr Notified mobley to be on site at 1500 to remove 703 gallons of fluid from tank # 2 and tank # 3 wash and rinse all tanks See manifest # 66671 fluids 703 wash 330

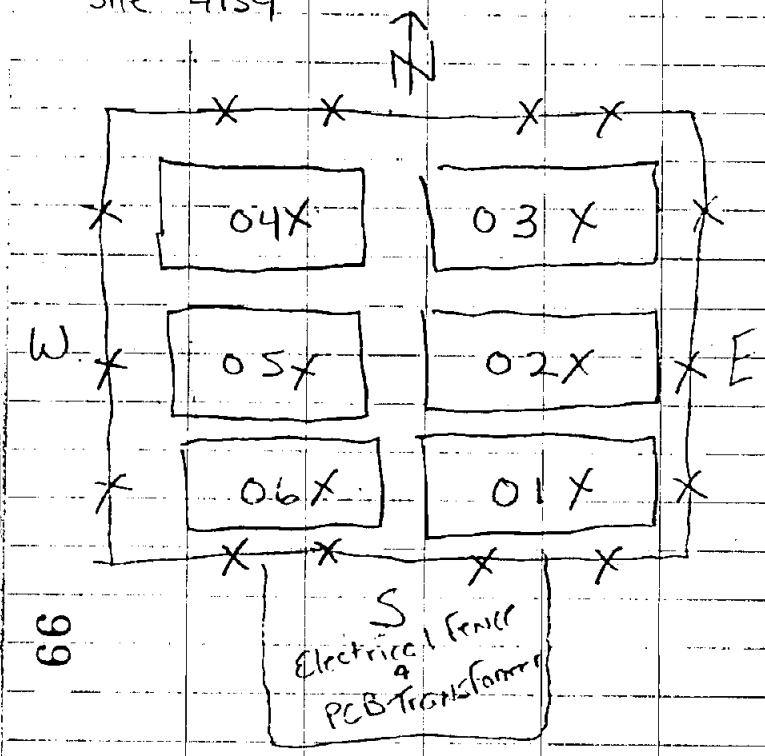
Tank # 5 was ck with CGI L.E.L. 0% TOX 2% OX 20.9% Tank # 5 was Pulled at 13:38

Tank # 4 was ck with CGI L.E.L 0% TOX 0% OX 20.9% Tank # 4 was Pulled at 15:00

mobley Arrive on Site begin washing and Rinsing tanks 4, 5, 6, Continued to excavate tanks 1, 2, 3, Used 330 Gallons of Water and BioSolve to wash and Rinse Tanks Tank # 1 Pulled at 18:30 L.E.L 0% TOX 0% OX 20.9%

Tank # 2 Pulled at 19:30 L.E.L 0% TOX 0% OX 20.9% Tank # 3 Pulled at 20:15

Site 4154



Tox 0% L.E.L 0% Ox 20.9%

Begin Sampling Event.

7-8-94

Sample #	Time	Nomenclature	Jar id #
Trip Blank	8:00	CAFB	B176676
4154-01-SEW/RB	8:05		B176684
4154-01-SEW/RB	8:05		B176641
4154-01-SEW/RB	8:05		B176701
			A3210567
		See label	

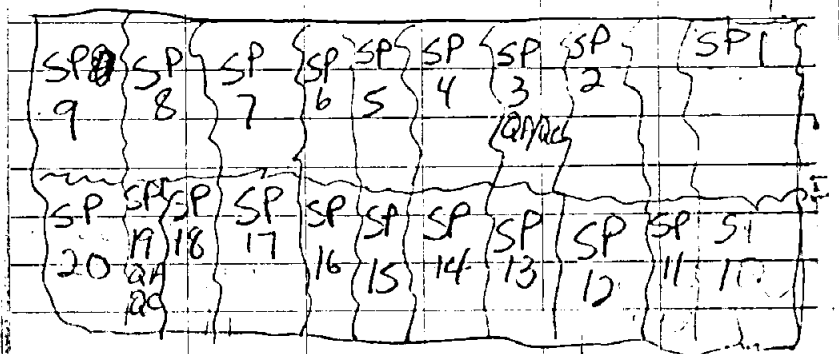
Sample #	Time	Nomenclature	Jar ID#
4154-01-SEW	8:05	CAFB	D292255
4154-01-SW	8:10	CAFB	D292259
4154-01-EW	8:15	CAFB	D292264
4154-02-SW	8:15	CAFB	D292267
4154-03-EW	8:20	CAFB	D292278
4154-03-NEW	8:25	CAFB	D292280
4154-03-NW	8:30	CAFB	D292256
4154-04-NW	8:35	CAFB	D292260
4154-04-NWW	8:40	CAFB	D292263
4154-04-WW	8:45	CAFB	D292245
4154-05-WW	8:50	CAFB	D292248
4154-05-WW/QC	8:50	CAFB	D292252
4154-05WW/QA	8:50	CAFB	A2924466
4154-06-WW	8:55	CAFB	D292254
4154-06SWW	9:00	CAFB	D292258
4154-06-SW	9:05	CAFB	D292262
4154-01-BH	9:10	CAFB	D292266
4154-02-BH	9:15	CAFB	D292247
4154-03-BH	9:20	CAFB	D292251
4154-04-BH	9:25	CAFB	D292250
4154-04-BH/QC	9:25	CAFB	D292257
4154-04-BH/QA	9:25	CAFB	A2924526
4154-05-BH	9:30	CAFB	D292261
4154-06-BH	9:35	CAFB	D292265

351120

Site 4154 Stock Pile 7-8-94

90 X 35 X 6 ÷ 27 X 1.35 1000 yds

N



Sample #	Time	Nomenclature	Jar ID#
4154·SP 1	10:15	CAFB	C066292
4154·SP 2	10:20		C066321
4154·SP 3	10:25		C066286
4154·SP 4	10:30		C066325
4154·SP 5	10:35		C066[illegible]
4154·SP 6	10:40		C066[illegible]
4154·SP 7	10:45		C066317
4154·SP 8	10:50		C066306
4154SP 9	10:55		C066308
4154·SP 10	11:00		C066313
4154·SP 11	11:05		C066302
4154SP12	11:10		C066304
4154·SP3 QC	10:25		C066320
4154SP3 QA	10:25		A2924508

7-8-94

Sample #	Time	Nomenclature	Jar ID#
4154·SP13	11:15	CAFB	C066314
4154SP14	11:20		C066216
4154·SP15	11:25		C066278
4154·SP16	11:30		C066184
4154·SP17	11:35		C066300
4154SP18	11:40		C066294
4154SP19	11:45		C066318
4154SP20	11:50		C066209
4154S19 QC	11:45		C066295
4154SP19 QA	11:45		A2924493
4154SP1/TB	9:55		B176651
4154SP1/RB	10:00		B176668
4154SP1/RB	10:00		B176626
4154SP1/RB	10:00		B176662
			A3210601

351121

7-8-94 Temp 77/98 Rainfall/trace
Partly Cloudy Hot Humid
Walter Carlock - Supervisor
Donnie White Safety Officer
Jose Villalone Equipment Operator
Sites 4152, 4154, 4150
Arrived on Site 0700 Am Sampled site 4154. Continued to Back fill Site # 4152 and Haul Debris from Sites 4152 & 4154, mobilize Equipment from Site 4154 to Site 4150 and begin to Demo Building 4150 Delivered QA Samples to QA Lab, USACE Representives on Site 4154 today Stuart Polley and Todd Smith along with Alan Flolow Both said that work met their Approval, They were present on Site for Sampling Event. Comercial metals came and Swaped out Scrap Box Captian Pierce from Fort Worth Fire Dept contected Amarillo Office and said that He wanted to Inspect tanks before they are removed the Site.

During the Demolishing of Build 4150 a 8" Defueling line was broke Had mobley come on site to suck out fuel in the line this required 2 vac trucks the first left with 2700 Gallons of Aviation Fuel See Manifest #87476 of 7-8-94 the second truck left with 2019 Gallons of Aviation fuel See manifest #66674 a total of 4719 Gallons of JP4 was remove from 8" defueling line continued with concrete and above ground piping removal left Site at 2100 hours.

101

551422

7-9-94 Temp 76/94 Rainfall .75
Cloudy Humid Hot
Walter Carlock - Supervisor
Donnie White - Safety Officer
Jose Villalone - Equipment Operator
Sites 4150, 4152, 4154
Continued with Concrete removal over top of tanks and continued to remove above ground piping site 4150. Began excavation of soil of tops of tanks Site 4150 Laid down 10mil visqueen 40X100 for the stockpiling of Soils. a thunder storm came up about 10:00 Am work was stopped due to strong winds Heavey Rain and Sever lightning untill about 12:30 pm tanks were checked at Site 4150 early this Am and all six were found to be dry. During Removal of above ground piping over tank #3 a 8" Flow Line was found to be full of Fluid JP-4 Fluid was running into a concrete vault Mobley was called on to Site 4150 to remove 1364 gallons of JP-4 From 8" Flow this product was transported off site under mobley manifest # 67726 Tank #6 was excavated and uncovered L.E.L. readings were taken prior to removal L.E.L. was 4% TOX was 1% Oxygen was 20.9. Tank #06 was exhumed at 18:30 on site ~~#~~ 4150 Site was secured for the evening.

7-10-94 Temp 70/80 Rainfall .20

Cloudy, Humid

Walter Carlock - Supervisor

Donnie White - Safety Officer

Jose Villalone - Equipment Operator

Sites 4150, 4152, 4154

Arrived on site, prepared for equipment for the removal of soil covering the tops of tanks #4 and #5 Began to uncover tanks 4, and 5, at Site 4150 reading for tank exhumation. Tank #5 was pulled at 1300pm with Test readings of 2% L.E.L 0% TOX 20.9% OX. Tank #4 was pulled at 1410 pm Test readings were L.E.L. 2% TOX 2% OX. 20.9. Tank #3 was extra Deep 17½' Feet to bottom of Tank, Tank #3 was pulled at 1900 with L.E.L readings of 8% L.E.L TOX 4% Oxygen was 20.0 Continued to uncover tanks #2 and #1 Tank #2 was Pulled at 20:35 Test readings were L.E.L 3% TOX 1% Oxygen 20.9% Tank #1 was Pulled at 21:15 Test readings were. L.E.L 9% TOX 4% Oxygen 19.9%

Site was secured for the evening Left Site at 1000pm

103

351124

7-11-94 Temp 71/88 Rainfall Trace

Partly Cloudy Hot

Walter Carlock - Supervisor

Donnie White - Safety Officer

Jose Villalone - Equipment Operator

Sites 4150, 4152, 4154

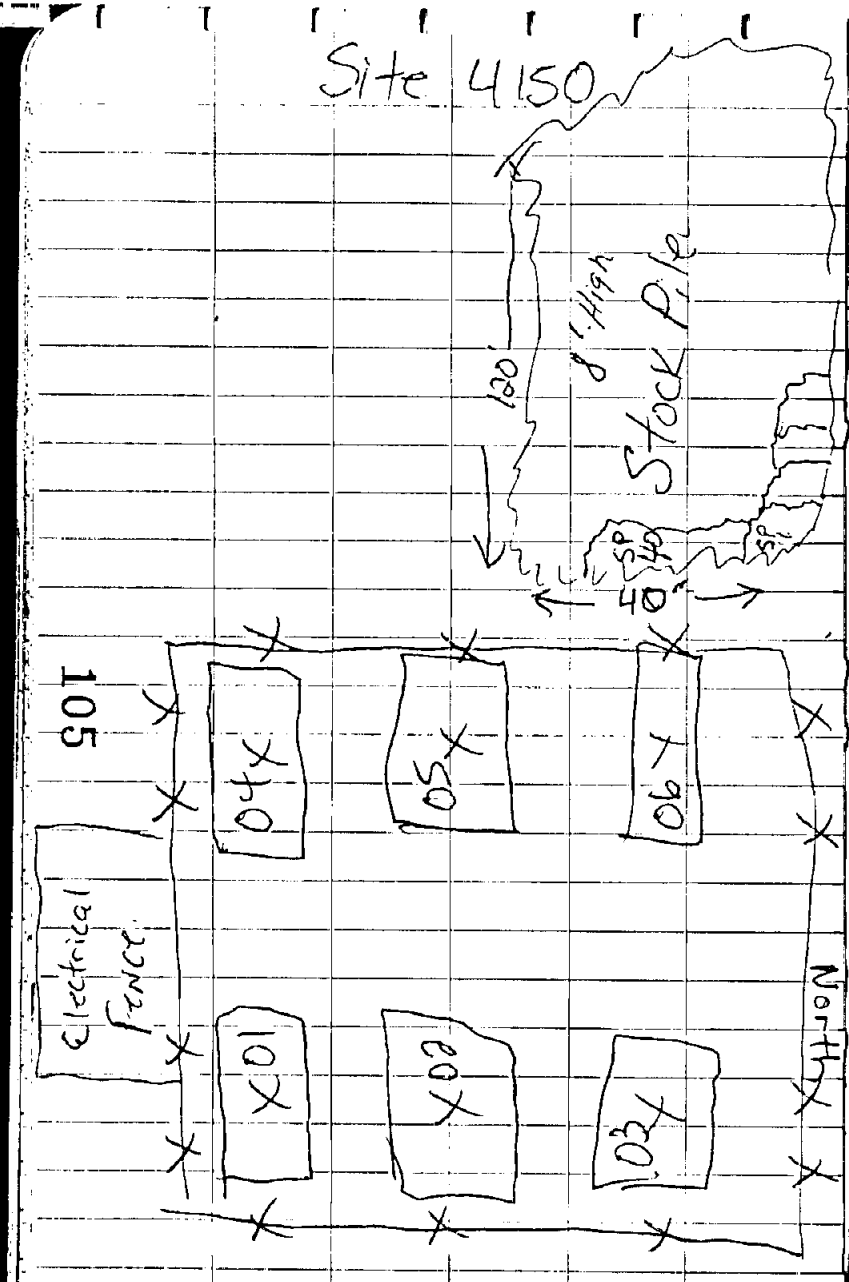
Arrived on Site # 4150 0800 Am prepared Jars and Coolers for Sampling Event Site 4150. Continued to Back fill Sites 4152, 4154 and remove concrete and Salvaged steel. Tank Hole Deminisons For Site # 4150 are 44'x100'x13'

Stock Pile Deminisons are 40 x 100 x 8.5 = 158 yds / 40x100x8.5x27x1.3 = 2039 yds. Begin Sampling Event at 0945.

Sample #	Time	Nomenclater	Jar ID#
Trip Blank	9:50	CAFB	B176680 B176645
4150.01 SEW/RB	9:55		B176623 B176663
4150.01 SEW/RB	9:55		A3210595
4150.01 SEW/RB	9:55		LEAD
4150.01 SEW	10:00		5924
4150.01 SW	10:05		5910
4150.01 EW	10:10		5923
4150.02 EW	10:15		5926

Sample #	Time	Nomenclature	Jar ID#
4150.03 EW	10:20	CAFB	5911
4150.03 NEW	10:25		5916
4150.03 NW	10:30		5917
4150.04 NW	10:35		5928
4150.04 NWW	10:40		5919
4150.04 WW	10:45		5906
4152.05 WW	10:50		5920
4150.05 WW/QC	10:50		5929
4150.05 WW/QA	10:50		N/A
4150.06 WW	10:55		5909
4150.06 SWW	11:00		5914
4150.06 SW	11:05		5931
4150.01 BH	11:10		5922
4150.02 BH	11:15		5912
4150.03 BH	11:20		5925
4150.04 BH	11:25		5907
4150.04 BH/QC	11:25		5921
4150.04 BH/QA	11:25		N/A
4150.05 BH	11:30		5930
4150.06 BH	11:35		6044

104



Sample #	Time	Nomenclature	Jar ID#
Trip Blank	1140	CAFB	B176628
			B176659
4150:SP1/RB	11:45		B176678
			B176660
4150:SP1/RB	11:45		A3210596
			~~[illegible]~~
4150:SP1/RB	11:45		LEAD
4150:SP1	11:50		6261
4150:SP1/QC	11:50		6245
4150:SP1/QA	11:50	N/A	~~[illegible]~~
4150:SP2	11:55		6246
4150:SP3	12:00		6262
4150:SP4	12:05		6257
4150:SP5	12:10		6242
4150:SP6	12:15		6243
4150:SP7	12:20		6258
4150:SP8	12:25		6253
4150:SP9	12:30		6227
4150:SP10	12:35		6228
4150:SP11	12:40		6254
4150:SP11/QC	12:40		6228
4150:SP11/QA	12:40	N/A	6204
4150:SP12	12:45		6163
4150:SP13	12:50		6206
4150:SP14	12:55		6250
4150:SP15	13:00		
4150:SP16	13:05		6197

351126

Sample #	Time	Nomenclature	Jar ID#
4150-SP17	13:10	CAFB	6191
4150-SP18	13:15		6174
4150-SP19 RB	13:20		5913
4150-SP20	13:25		2140
4150-SP21	13:30		6219
4150-SP21/QC	13:30		6249
4150-SP21/QA	13:30		N/A
4150-SP22	13:35		6102
4150-SP23	13:40		6118
4150-SP24	13:45		6101
4150-SP25	13:50		6117
4150-SP26	13:55		6144
4150-SP27	14:00		6120
4150-SP28	14:05		6119
4150-SP29	14:10		6143
4150-SP30	14:15		6145
4150-SP31	14:20		6110
4150-SP31/QC	14:20		5984
4150-SP31/QA	14:20		N/A
4150-SP32	14:25		6149
4150-SP33	14:30		6146
4150-SP34	14:35		6112
4150-SP35	14:40		6141
4150-SP36	14:45		6111
4150-SP37	14:50		6147
4150-SP38	14:55		6113
4150-SP39	15:00		6036
4150-SP40	15:05		6016
4150-SP20/RB	13:35		B176661
4150-SP20/RB	13:25		B176658
4150-SP20/RB	13:25		D323306
4150-SP20/RB	13:25		Lead

Electrical

Called mobley on site # 4150 to wash & rinse tanks 1, 2, 3, 4, 5, 6, mobley removed all rinse fluids 450 gallons under manifest # 67477 300 gallons was used to rinse tanks 150 gallons was Product in tank, Continue to haul and back fill holes remove concrete and debris From sites 4150, 4152, 4154 Obtaine a fire permitt from CAFB Fire Dept To Cut tanks Permitt # 94-0071 permitt effective 7-11-94 to 7-16-94 Begin Cutting tanks to meet Scrap yard requirements also all man ways on all tanks Had to be removed account they were 32" tall.

106

35 1127

7-12-94 Temp 73/94 Rainfall
Partly Cloudy Hot 2"
Walter Carlock Field Superintendent
Jose Villalone - Equip. Operator
Casey Tebo - Equip. operator
site 4150, 4152
arived on site 07:15 Continued
to prepare Tank for disposal
at site 4150 Rechecked LEL's
in all six tank before cutting
on them. Hauled tanks 01 thru
06 to CMC scrap yard.
Casey arived on site approx. 6:00pm
to help final hauling on this
day. Back Material Continued
to haul imported backfill in to
site 4152 and haul off concrete
from site 4150. It started Rain-
ing about 1300 and had to shut-
down the hauling. C.M.C. came
and pick up a scrap box from
site 4152. Day End at 830 pm.
Note: Capt. Pierce from the Ft. Worth
called and requested that PWI mail
him all tank destruction form and
LEL. Reading form. Walter Carlock

351123

107

Initial

Rainfall
7-13-94 Temp. 77/95 None
Partly Cloudy Hot muddy
Walter Carlock site condition
Jose Villalon
Mike Coffey
arived on site 7:15AM
Prepared UST's at site 4152
for disposal to the CMC
scrap yard. Checked all UST's
befor cutting on them. All O.E.L.
reading was 0 L.E.L. Hauled
UST's from site 4152 to C.M.C.
Scrap yard in Ft. Worth. Completed
hauling UST's on site 4152.
Aprox 1645 Alan Flolo arrived
on site. Just prior aprox 1630
PWI personnel was loading the
last UST on site 4152 and it
Rolled off the offside of the trailer
and hit a Runway light pole.
There were two 1000 watt lights
was broke and the pole was knot
out of line. Alan Flolo contacted
Security and arrived on site 4152.
over →

621129

108

7-13-94

Alan and I (Walter) gave a statement and barricaded the damage pole off. I (Walter) contacted John Stevenson at the main office in Amarillo. I (Walter) told Alan Flolo that PWI will contact the Corps. of Eng. tomorrow. Scanned the work area and Shutdown 1900.

Walter Carlock

351130

7-14-94 Temp 74/95 Rain [redacted] muddy site condition

Party Cloudy
Walter Carlock
Jose Villalon
Mike Coffey
Arived on site 07:30
Moved Equip. to site 4154 for Tank disposal prosess. Check all UST's L.E.L. Defor cutting man ways off. All UST L.E.L. are below action limits. Loaded UST's onto the Sem. Tek. and hauled them to C.M.C. scrap yard in Ft. Worth. All sites are still to muddy to haul in Imported Material. Arrov. 10:30 Stewart Polley with the Corps of Eng. arived on the Jobsite. I (Walter) went over the Act. Quan. of job for pay request. with him. I showed him the light pole that was damaged on 7-13-94. Stewart said PWI would to get with Base Oper. about it. PWI finish hauling off all ust's from Carswell AFB. We continued to load scrap metal in scrap box's. over →

7-14-94

Steewart Polley said that Todd Smith and John Stevenson would have to agree onpon line Item 0253 befor paymant. It started raining about 15.00 and it rain aprox. 1". Alan Flola around on site and I (Walter) ask him to get in contact of parson about the damage light pole.

Day End 20.00 hrs.

7-15 thru 17

NO work Preformed due to Muddy site Condition

351132

7-18-94

STEWART POLLEY, IN A CONVERSATION WITH WALTER CARLOCK, QUESTIONED WHY WE WERE BACKFILLING THE TANKHOLES WITHOUT LABORATORY ANALYTICAL RESULTS IN HAND. PWI DID THIS IN ACCORDANCE WITH ORIGINAL INSTRUCTIONS RECEIVED FROM TODD SMITH. ALL EXCAVATED MATERIAL WAS TO BE PUSH BACK IN HOLE, REGARDLESS OF CONTAMINATION. PIPING WAS ONLY TO BE REMOVED TO THE EDGE OF THE EXCAVATION.

7-19-94

JOHN STEVENSON 95°F
PERRY WILLIAMS NO RAIN
CHRIS GOMES

PHONED COE TO TELL THEM WE WERE ON SITE. HAULED IN 96 CY BACKFILL MATERIAL TO SITE 4150. CONTINUED TO LOAD UP SCRAP METAL IN BIG BOX @ 4150. COULD NOT GET MORE TRUCK OR MORE METAL BOXES UNTIL TOMORROW. HAULED 3 LOADS CONCRETE (BACK MATERIALS) OFF SITE 4150. ALAN FLOLO BROUGHT UP QUESTION ABOUT LINING HOLES WITH PLASTIC & WAS TOLD THAT WE WERE INSTRUCTED NOT TO BY TODD SMITH & MIKE DOTWIN

7-20-94

PERRY WILLIAMS 100°F
JOHN STEVENSON NO RAIN
CHRIS GOMES

HAULING BACKFILL MATERIAL @ SITES 4150 & 4154. HAULING CONCRETE OFF SITES 4150, 4152 & 4154. BACK MATERIALS AND HOLDER TRUCKING BRINGING MATERIAL & HAULING OFF CONCRETE. VERIFIED WITH MIKE BOTWIN THE HE DID NOT WANT HOLES LINED WITH PLASTIC.

METAL BOXES REMOVED - 1 SMALL BOX FROM SITE 4150
LOADS OF CONCRETE HAULED OFF - 8
LOADS OF DIRT HAULED IN TO SITE 4150 - 18 (444 CY)

7-21-94

PERRY WILLIAMS 105
JOHN STEVENSON NO RAIN
CHRIS GOMES

CONTINUED TO HAUL IN AND PLACE BACKFILL AT SITE 4150. CONTINUED TO LOAD SCRAP METAL AT ALL SITES & CONCRETE AT ALL SITES.

1-32' ~~A~~ SCRAP METAL BOX HAULED OFF FROM SITE 4150
1-32' SCRAP METAL BOX HAULED IN TO SITE 4154
1- SMALL SCRAP METAL BOX OF ALUMINUM HAULED OUT
19 LOADS BACKFILL MATERIAL HAULED IN TO SITE 4150 (420 CY)
3 LOADS CONCRETE HAULED OUT FROM ALL SITES

114

3C-1-35

7-22-94

PERRY WILLIAMS
JOHN STEVENSON
CHRIS GOMES
CASEY TEDO

CONTINUED TO HAUL BACKFILL MATERIAL IN TO SITE 4150. HAD COMMERCIAL METALS BRING ANOTHER SMALL BOX FOR ALUMINUM PLATE AND HAUL OFF FULL BOX (SMALL) @ SITE 4150. Hauled in 43½ yd of material on this day.

7-23 & 24-94

NO WORK preformed at CAFB

7-25-94 Temp 75/95 Rain NONE

Walter Carlock
Casey Tebo

arrived on site 3:00 pm

Holder Trucking was hauling in Imported backfill material Continued backfilling site 4154 hauled in 451 yd on this day I(W.C.) talk with Stewart Polley (COE) on the phone about work sch. this week and I(W.C.) Stewart Polley (COE) if the pay Request has been aproved He said that it was aproved & sent in for payment.

Walt

116

C51137

7-26-94 69/95 Rain none

Walter L. Carlock
~~Donnie~~ ~~White~~
arived on site 7:15
Continued to Haul in and
backfill 4154 with clean
Inported Material. Holder
Trucking Haul in 74 yds to
site 4154 and 24 yd to site
4152 & 24 yds at 4150.
I called Southwestern Lab
to come out to take
density test on each site.
We took 5 test at 5 different
Levels at each site.
see Report for results. I met
with Lone Star Ele. on site
about repairing the lights &
pole.

Walter

7-27-94 67/92 Rain None

Walter L. Carlock
Donnie White

arived on site 7:10
Continued to backfill site 4154 and Holder Trucking hauled in 336 yds and 48 yds to site 4152 & 24 yds at 4150. Finish backfilling all site and Started cleaning up the area. a water leak developed at site 4154 and call Base Oper. Walt

7-28-94 69/94 Rain None
Walter Carlock
arived on site 7:00
Continued to clean up all site at CAFB Base Oper. arived on site and fix the water leak at site 4154.

351139

7-29-94 69/94 Rain None

Walter Carlock

arrived on site 7:30

Finish cleaning up all site at CAFB move the ben. back on to the pad at site 4152.

7 30-94 70/95 Rain None

Walter L. Carlock

Demob equipment out of CAFB.

551140

APPENDIX L:

ORIGINAL LAB RESULTS / CHAINS OF CUSTODY

ENVIRON

Environmental Laboratories, Inc.
812 W. 9TH
Amarillo, Texas 79101
806-376-7004

Client: Perry Williams Inc.
P.O. Box 30206
Amarillo, TX 79120

Project Name: Carswell AFB
Location: Site#: 4152
DO#: 0013
Date Sampled: 6/30/94
Date Received: 7/1/94
Sample Type: Soil/Water*
Sample Condition: Intact-Chilled
Sample Rec'd By: CR
C-O-C# 270, 271, 272

Lab ID#	Field Code Description	TRPH Analysis Date	TRPH ppm	BTEX Analysis Date	Benzene ppm	Toluene ppm	Ethyl Benzene ppm	Xylenes ppm	TOTAL BTEX	Total Lead Analysis Date	Total Lead ppm
4701*	TRIP BLANK			7/8/94	<0.005	<0.005	<0.005	<0.015	<0.030		
4702*	CAFB-4152-03-BH/RB	7/8/94	<0.200	7/8/94	<0.005	<0.005	<0.005	<0.015	<0.030	7/9/94	<0.1
4703	CAFB-4152-03-BH	7/8/94	1725	7/8/94	<0.1	<0.1	1.75	53.71	<55.66	7/9/94	<5
4704	CAFB-4152-03-WW	7/8/94	625	7/8/94	0.48	<0.1	1.16	6.09	<7.83	7/9/94	10.2
4705	CAFB-4152-04-BH	7/8/94	190	7/8/94	0.48	<0.1	1.30	11.27	<13.15	7/9/94	<5
4706	CAFB-4152-04-BH/QC	7/8/94	245	7/8/94	1.39	<0.1	1.31	10.61	<13.41	7/9/94	<5
4707	CAFB-4152-04-WW	7/8/94	35	7/12/94	<0.1	<0.1	<0.1	<0.3	<0.6	7/9/94	<5
4708	CAFB-4152-02-BH	7/8/94	1775	7/12/94	0.50	<0.1	2.54	67.59	<70.73	7/9/94	6.7
4709	CAFB-4152-03-EW	7/8/94	<5	7/12/94	<0.1	<0.1	<0.1	<0.3	<0.6	7/9/94	5.3
4710	CAFB-4152-03-NEW	7/8/94	435	7/12/94	<0.1	<0.1	<0.1	<0.3	<0.6	7/9/94	5.1

TRPH QC:

Standard Recovery(%)	100
Spike Recovery(%)	95
Duplicate(%Diff)	20
Blank(Soil)	<5
Blank(Water)	<0.200

BTEX QC:

	Std Rec(%)	Spike Rec(%)
Benzene	111	109
Toluene	106	97
Ethyl Benzene	101	102
Xylenes	101	100

Duplicate(%Diff)	Blank
0	<0.005

LEAD QC:

Standard Recovery(%)	114
Spike Recovery(%)	101
Duplicate(%Diff)	3
Blank(Soil)	<5
Blank(Water)	<0.1

METHODS: BTEX-EPA SW 846-8020 with EPA Method 5030, TRPH-EPA SW 846-418.1 with EPA Method 9071, LEAD-EPA SW 846-7421 with 3020/3050

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Rick Baker
Rick Baker Lab Director

7/15/94
Date

ENVIRON

Client: Perry Williams Inc.
P.O. Box 30206
Amarillo, TX 79120

Project Name: Carswell AFB
Location: Site#: 4152
DO#: 0013
Date Sampled: 6/30/94
Date Received: 7/1/94
Sample Type: Soil/Water
Sample Condition: Intact-Chilled
Sample Rec'd By: CR
C-O-C# 270, 271, 272

Environmental Laboratories, Inc.
812 W. 9TH
Amarillo, Texas 79101
806-376-7004

Lab ID#	Field Code Description	TRPH Analysis Date	TRPH ppm	BTEX Analysis Date	Benzene ppm	Toluene ppm	Ethyl Benzene ppm	Xylenes ppm	TOTAL BTEX	Total Lead Analysis Date	Total Lead ppm
4711	CAFB-4152-02-EW	7/8/94	<5	7/12/94	<0.1	<0.1	<0.1	<0.3	<0.6	7/9/94	<5
4712	CAFB-4152-01-BH	7/8/94	710	7/12/94	0.51	<0.1	1.25	17.99	<19.85	7/9/94	9.0
4713	CAFB-4152-01-EW	7/8/94	<5	7/12/94	<0.1	<0.1	0.19	4.21	<4.60	7/9/94	5.0
4714	CAFB-4152-01-SEW	7/10/94	50	7/12/94	<0.1	<0.1	<0.1	<0.3	<0.6	7/9/94	6.9
4715	CAFB-4152-01-SW	7/10/94	595	7/12/94	<0.1	<0.1	<0.1	<0.3	<0.6	7/9/94	8.4
4716	CAFB-4152-06-BH	7/10/94	530	7/12/94	<0.1	<0.1	<0.1	<0.3	<0.6	7/9/94	18.3
4717	CAFB-4152-06-SWW	7/10/94	40	7/12/94	<0.1	<0.1	<0.1	<0.3	<0.6	7/9/94	11.4
4718	CAFB-4152-06-SW	7/10/94	<5	7/12/94	<0.1	<0.1	<0.1	<0.3	<0.6	7/9/94	5.5
4719	CAFB-4152-06-WW	7/10/94	<5	7/13/94	<0.1	<0.1	<0.1	1.26	<1.56	7/9/94	6.1
4720	CAFB-4152-05-BH	7/10/94	1035	7/13/94	<0.1	<0.1	<0.1	<0.3	<0.6	7/9/94	7.9

TRPH QC:

Standard Recovery(%)	102
Spike Recovery(%)	81
Duplicate(%Diff)	20
Blank(Soil)	<5

BTEX QC:

	Std Rec(%)	Spike Rec(%)
Benzene	97	90
Toluene	92	94
Ethyl Benzene	103	92
Xylenes	110	100

Duplicate(%Diff)	Blank
0	<0.005

LEAD QC:

Standard Recovery(%)	111
Spike Recovery(%)	110
Duplicate(%Diff)	2
Blank(Soil)	<5

METHODS: BTEX-EPA SW 846-8020 with EPA Method 5030, TRPH-EPA SW 846-418.1 with EPA Method 9071, LEAD-EPA SW 846-7421 with 3020/3050

1211

Rick Baker
Rick Baker Lab Director

7/15/94
Date

ENVIRON

Environmental Laboratories, Inc.
812 W. 9TH
Amarillo, Texas 79101
806-376-7004

Client: Perry Williams Inc.
P.O. Box 30206
Amarillo, TX 79120

Project Name: Carswell AFB
Location: Site#: 4152
DO#: 0013
Date Sampled: 6/30/94
Date Received: 7/1/94
Sample Type: Soil/Water
Sample Condition: Intact-Chilled
Sample Rec'd By: CR
C-O-C# 270, 271, 272

Lab ID#	Field Code Description	TRPH Analysis Date	TRPH ppm	BTEX Analysis Date	Benzene ppm	Toluene ppm	Ethyl Benzene ppm	Xylenes ppm	TOTAL BTEX	Total Lead Analysis Date	Total Lead ppm
4721	CAFB-4152-05-WW	7/10/94	95	7/8/94	<0.1	<0.1	<0.1	<0.3	<0.6	7/9/94	6.5
4722	CAFB-4152-05-WW/QC	7/10/94	100	7/8/94	<0.1	<0.1	<0.1	<0.3	<0.6	7/9/94	5.6
4723	CAFB-4152-04-NW	7/10/94	540	7/8/94	<0.1	<0.1	<0.1	<0.3	<0.6	7/9/94	6.7
4724	CAFB-4152-04-NWW	7/10/94	585	7/8/94	<0.1	<0.1	<0.1	<0.3	<0.6	7/9/94	7.9

TRPH QC:

Standard Recovery(%)	100
Spike Recovery(%)	95
Duplicate(%Diff)	5
Blank(Soil)	<5

BTEX QC:

	Std Rec(%)	Spike Rec(%)
Benzene	99	81
Toluene	109	80
Ethyl Benzene	106	77
Xylenes	111	91

Duplicate(%Diff)	Blank
0	<0.005

LEAD QC:

Standard Recovery(%)	110
Spike Recovery(%)	109
Duplicate(%Diff)	2
Blank(Soil)	<5

METHODS: BTEX-EPA SW 846-8020 with EPA Method 5030, TRPH-EPA SW 846-418.1 with EPA Method 9071, LEAD-EPA SW 846-7421 with 3020/3050

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Rick Baker
Rick Baker Lab Director

7/15/94
Date

ENVIRON
ENVIRONMENTAL LABORATORIES, INC.
812 W. 9TH
Amarillo, Texas 79101
(806) 376-7004

CHAIN OF CUSTODY RECORD

Project Manager: Perry Williams, Inc.	Phone #: (806) 373-5820
Address: 2700 S. Wilson, Ama TX 79103	FAX #: (806) 371-0340
Project Number: D.O.# 0013	Project Name: Carswell AFB
Project Location: Site: 4152	Sampler Signature: John Stevenson

ID# Lab Use Only	Sampling Date	Sampling Time	Matrix (s,w,f)	Composite	Grab	Boring	Field ID #	Field Description	No. of Containers	Analysis: BTEX	Analysis: TRPH	Analysis: Lead				Remarks (Preservation, Size/Amount, etc.)	
4701	6/30/94	1800	w		✓			Trip	2	✓						HCl	40 mil VOA's
02		1815	w	✓				CAFB·4152·03·BH/RB	2	✓						HCl	40 mil VOA's
			w	✓				CAFB·4152·03 BH/RB	1		✓					HCl	1 Lite. Amber
			w	✓				CAFB·4152·03·BH/RB	1			✓				HNO_3	250 mil Plast.
03		1830	S		✓		6470	CAFB·4152·03·BH	1	✓	✓	✓					4oz WAR
04		1835					6461	·03·WW	1								
05		1840					6459	·04·BH	1								
06		1840					6460	·04·BH/QC	1								
07		1845					6450	·04·WW	1								
08		1850					6442	·02·BH	1	✓	✓	✓					

Relinquished by: (Signature)	Date	Time	Received by: (Signature)
John Stevenson	6/30/94	2015	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)
Relinquished by: (Signature)	Date	Time	Received by: (Signature)
Relinquished by: (Signature)	Date	Time	Received by: (Signature)
Relinquished by: (Signature)	Date 7/1/94	Time 11:50AM	Received for Laboratory by: Signature

Remarks:

	Yes	No
Headspace		✓
Properly Sealed	✓	
Chilled to 40°F	✓	

If Yes, Amt. _____
If No, Explain _____
If No, Temp _____

Type of Container 4oz sealed

Additional comments: Hand delivered by Walter Carlock 7/1/94

ENVIRONMENTAL LABORATORIES, INC.
812 W. 9TH
Amarillo, Texas 79101
(806) 376-7004

CHAIN OF CUSTODY RECORD

Project Manager: Perry Williams, Inc.	Phone # (806) 373-5820
Address: 2700 S. Wilson, Ama TX 79103	FAX #: (806) 371-0340
Project Number: D.O.# 0013	Project Name: Carswell AFB
Project Location: Site: 4152	Sampler Signature: John Stevenson

ID# Lab Use Only	Sampling Date	Sampling Time	Matrix (s,w,f)	Composite	Grab	Boring	Field ID #	Field Description	No. of Containers	Analysis: BTEX	Analysis: TRPH	Analysis: Lead					Remarks (Preservation, Size/Amount, etc.)
4709	6/30/94	1855	S		✓		6475	CAFB·4152·03·EW	1	✓	✓	✓					4oz JAR
10		1900					6462	·03·NEW	1								
11		1905					6472	·02·EW	1								
12		1910					6490	·01·BH	1								
13		1915					6457	·01·EW	1								
14		1920					6473	·01·SEW	1								
15		1925					6458	·01·SW	1								
16		1930					6493	·06·BH	1								
17		1935					6487	·06·SWW	1								
18	✓	1940	✓		✓		6468	·06·SW	1	✓	✓	✓					✓

Relinquished by: (Signature)	Date	Time	Received by: (Signature)
John Stevenson	6/30/94	2015	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)
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
	7/1/94	11:50AM	

Remarks:

	Yes	No
Headspace		✓
Properly Sealed	✓	
Chilled to 40°F	✓	

If Yes, Amt. _____
If No, Explain _____
If No, Temp _____

Type of Container 4oz Sealed

Additional comments: Hand delivered by Walter Carlock 7/1/94

ENVIRONMENTAL LABORATORIES, INC.
812 W. 9TH
Amarillo, Texas 79101
(806) 376-7004

CHAIN OF CUSTODY RECORD

Project Manager: Perry Williams, Inc.	Phone # (806) 373-5820
Address: 2700 S. Wilson, Ama TX 79103	FAX #: (806) 371-0340
Project Number: D.O.# 0013	Project Name: Carswell AFB
Project Location: Site: 4152	Sampler Signature: John Stevenson

ID# Lab Use Only	Sampling Date	Sampling Time	Matrix (s,w,f)	Composite	Grab	Boring	Field ID #	Field Description	No. of Containers	Analysis: BTEX	Analysis: TRPH	Analysis: Lead					Remarks (Preservation, Size/Amount, etc.)
4719	6/30/94	1945	S		✓		6477	CAFB.4152.06.WW	1	✓	✓	✓					4 oz Jars
20		1950					6486	.05.BH	1								
21		1955					6465	.05.WW	1								
22		1955					6480	.05.WW/QC	1								
23		2000					6474	.04.NW	1								
24		2005					6484	.04.WW	1								

Relinquished by: (Signature)	Date	Time	Received by: (Signature)
[signature]	6/30/94	2015	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)
Relinquished by: (Signature)	Date	Time	Received by: (Signature)
Relinquished by: (Signature)	Date	Time	Received by: (Signature)
Relinquished by: (Signature)	Date 7/1/94	Time 11:50AM	Received for Laboratory by: Signature [signature]

Remarks:

	Yes	No
Headspace		✓
Properly Sealed	✓	
Chilled to 40°F	✓	

If Yes, Amt. _____
If No, Explain _____
If No, Temp _____

Type of Container 4oz sealed

Additional comments: Hand delivered by Walter Carlock 7/1/94

ENVIRON

Environmental Laboratories, Inc.
812 W. 9TH
Amarillo, Texas 79101
806-376-7004

Client: Perry Williams Inc.
P.O. Box 30206
Amarillo, TX 79120

Project Name: Carswell AFB
Location: Site#: 4152
DO#: 0013
Date Sampled: 6/30/94
Date Received: 7/1/94
Sample Type: Soil
Sample Condition: Intact-Chilled
Sample Rec'd By: CR
C-O-C# 268, 269

Lab ID#	Field Code Description	TRPH Analysis Date	TRPH ppm	BTEX Analysis Date	Benzene ppm	Toluene ppm	Ethyl Benzene ppm	Xylenes ppm	TOTAL BTEX	Total Lead Analysis Date	Total Lead ppm
4801	CAFB-4152-SPA	7/8/94	575	7/9/94	<0.1	<0.1	<0.1	1.56	<1.86	7/9/94	10.2
4802	CAFB-4152-SPA/QC	7/8/94	595	7/9/94	0.48	<0.1	0.55	0.60	<1.73	7/9/94	9.9
4803	CAFB-4152-SPB	7/8/94	340	7/9/94	0.48	<0.1	1.03	2.89	<4.50	7/9/94	<5
4804	CAFB-4152-SPC	7/8/94	<5	7/9/94	<0.1	<0.1	0.12	1.32	<1.32	7/9/94	<5
4805	CAFB-4152-SPD	7/10/94	<5	7/9/94	0.48	<0.1	0.94	2.48	<4.00	7/9/94	<5
4806	CAFB-4152-SPE	7/8/94	1205	7/9/94	0.52	<0.1	0.89	2.64	<4.15	7/9/94	14.4
4807	CAFB-4152-SPF	7/8/94	625	7/9/94	0.49	<0.1	0.73	1.48	<2.80	7/9/94	5.8
4808	CAFB-4152-SPG	7/9/94	1625	7/9/94	0.51	<0.1	1.64	49.04	<51.29	7/9/94	25.2
4809	CAFB-4152-SPH	7/8/94	545	7/9/94	0.50	<0.1	1.29	7.07	<8.96	7/9/94	11.8
4810	CAFB-4152-SPI	7/10/94	1495	7/9/94	0.50	<0.1	0.82	1.59	<3.01	7/9/94	13.9

TRPH QC:

Standard Recovery(%)	100
Spike Recovery(%)	99
Duplicate(%Diff)	20
Blank(Soil)	<5

BTEX QC:

	Std Rec(%)	Spike Rec(%)
Benzene	101	109
Toluene	98	97
Ethyl Benzene	96	102
Xylenes	103	100

Duplicate(%Diff)	Blank
1	<0.005

LEAD QC:

Standard Recovery(%)	112
Spike Recovery(%)	106
Duplicate(%Diff)	0
Blank(Soil)	<5

METHODS: BTEX-EPA SW 846-8020 with EPA Method 5030, TRPH-EPA SW 846-418.1 with EPA Method 9071, LEAD-EPA SW 846-7421 with 3020/3050

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Rick Baker
Rick Baker Lab Director

7/15/94
Date

ENVIRON

Environmental Laboratories, Inc.
812 W. 9TH
Amarillo, Texas 79101
806-376-7004

Client: Perry Williams Inc.
P.O. Box 30206
Amarillo, TX 79120

Project Name: Carswell AFB
Location: Site#: 4152
DO#: 0013
Date Sampled: 6/30/94
Date Received: 7/1/94
Sample Type: Soil
Sample Condition: Intact-Chilled
Sample Rec'd By: CR
C-O-C# 268, 269

Lab ID#	Field Code Description	TRPH Analysis Date	TRPH ppm	BTEX Analysis Date	Benzene ppm	Toluene ppm	Ethyl Benzene ppm	Xylenes ppm	TOTAL BTEX	Total Lead Analysis Date	Total Lead ppm
4811	CAFB-4152-SPJ	7/10/94	1005	7/9/94	0.49	<0.1	3.20	55.54	<59.33	7/9/94	<5
4812	CAFB-4152-SPK	7/10/94	655	7/9/94	0.49	<0.1	0.76	1.39	<2.74	7/9/94	8.8
4813	CAFB-4152-SPK/QC	7/10/94	540	7/9/94	0.50	<0.1	0.99	3.25	<4.84	7/9/94	8.7
4814	CAFB-4152-SPL	7/10/94	345	7/9/94	0.48	<0.1	0.67	0.98	<2.23	7/9/94	6.9
4815	CAFB-4152-SPM	7/10/94	515	7/9/94	0.50	<0.1	0.53	0.48	<1.61	7/9/94	6.0
4816	CAFB-4152-SPN	7/10/94	575	7/9/94	<0.1	<0.1	0.37	1.83	<2.40	7/9/94	<5
4817	CAFB-4152-SPO	7/10/94	<5	7/9/94	<0.1	<0.1	<0.1	<0.3	<0.6	7/9/94	6.1
4818	CAFB-4152-SPP	7/10/94	<5	7/9/94	0.49	<0.1	0.66	1.10	<2.35	7/9/94	6.2

TRPH QC:

Standard Recovery(%)	106
Spike Recovery(%)	90
Duplicate(%Diff)	5
Blank(Soil)	<5

BTEX QC:

	Std Rec(%)	Spike Rec(%)
Benzene	97	81
Toluene	92	80
Ethyl Benzene	103	77
Xylenes	110	91

Duplicate(%Diff)	Blank
0	<0.005

LEAD QC:

Standard Recovery(%)	100
Spike Recovery(%)	116
Duplicate(%Diff)	0
Blank(Soil)	<5

METHODS: BTEX-EPA SW 846-8020 with EPA Method 5030, TRPH-EPA SW 846-418.1 with EPA Method 9071, LEAD-EPA SW 846-7421 with 3020/3050

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Rick Baker
Rick Baker Lab Director

7/15/94
Date

ENVIRONMENTAL LABORATORIES, INC.
812 W. 9TH
Amarillo, Texas 79101
(806) 376-7004

CHAIN OF CUSTODY RECORD

Project Manager: Perry Williams, Inc.	Phone # (806) 373-5820
Address: 2700 S. Wilson, Ama TX 79103	FAX #: (806) 371-0340
Project Number: D.O.# 0013	Project Name: CARSWELL AFB
Project Location: Site: 4152	Sampler Signature: Walter L. Carlock

ID# Lab Use Only	Sampling Date	Sampling Time	Matrix (s,w,f)	Composite	Grab	Boring	Field ID #	Field Description	No. of Containers	Analysis BTEX	Analysis TRPH	Analysis each					Remarks (Preservation, Size/Amount, etc.)
4801	6/30/94	1830	S	✓			6639	CAFB·4152·SPA	1	✓	✓	✓					4oz Jar's
02		1830					6637	·SPA/QC	1								
03		1835					6626	·SPB	1								
04		1840					6633	·SPC	1								
05		1845					6449	·SPD	1								
06		1850					6629	·SPE	1								
07		1855					6640	·SPF	1								
08		1900					6428	·SPG	1								
09		1905					6455	·SPH									
10		1910					6634	·SPI									

Relinquished by: (Signature)	Date	Time	Received by: (Signature)
Walter L. Carlock	6/30/94	2000	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)
Relinquished by: (Signature)	Date	Time	Received by: (Signature)
Relinquished by: (Signature)	Date	Time	Received by: (Signature)
Relinquished by: (Signature)	Date 7/1/94	Time 11:50 AM	Received for Laboratory by: Signature

Remarks:

	Yes	No
Headspace		✓
Properly Sealed	✓	
Chilled to 40°F	✓	

If Yes, Amt. _____
If No, Explain _____
If No, Temp _____

Type of Container 4oz Sealed

Additional comments: Hand Delivered by Walter Carlock 7/1/94

ENVIRONMENTAL LABORATORIES, INC.
812 W. 9TH
Amarillo, Texas 79101
(806) 376-7004

CHAIN OF CUSTODY RECORD

Project Manager: Perry Williams, Inc.	Phone # (806) 373-5820
Address: 2700 S. Wilson, Ama TX 79103	FAX #: (806) 371-0340
Project Number: D.O.# 0013	Project Name: Carswell AFB
Project Location: Site: 4152	Sampler Signature: Walton L. Carlock

ID# Lab Use Only	Sampling Date	Sampling Time	Matrix (s,w,f)	Composite	Grab	Boring	Field ID #	Field Description	No. of Containers	Analysis BTEX	Analysis TRPH	Analysis Lead				Remarks (Preservation, Size/Amount, etc.)
4811	6/30/94	1915	S	✓			6436	CAFB · 4152 · SPJ	1	✓	✓	✓				4oz Jar's
12		1920					6430	· SPK	1							
13		1920					6547	· SPK/QC	1							
14		1925					6437	· SPL	1							
15		1930					6443	· SPM	1							
16		1935					6636	· SPN	1							
17		1940					6632	· SPO	1							
18		1945					6627	· SPP	1							
									4							

Relinquished by: (Signature)	Date	Time	Received by: (Signature)
Walton L. Carlock	6/30/94	2000	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)
Relinquished by: (Signature)	Date	Time	Received by: (Signature)
Relinquished by: (Signature)	Date	Time	Received by: (Signature)
Relinquished by: (Signature)	Date 7/1/94	Time 11:50AM	Received for Laboratory by: Signature

Remarks:

	Yes	No
Headspace		✓
Properly Sealed	✓	
Chilled to 40°F	✓	

If Yes, Amt. _____
If No, Explain _____
If No, Temp _____

Type of Container 4oz Sealed

Additional comments: Hand delivered by Walter Carlock 7/1/94

ENVIRON

Environmental Laboratories, Inc.
812 W. 9TH
Amarillo, Texas 79101
806-376-7004

Client: Perry Williams Inc.
P.O. Box 30206
Amarillo, TX 79120

Project Name: Carswell AFB
Location: Site#: 4154
DO#: 0046 #13
Date Sampled: 7/8/94
Date Received: 7/10/94
Sample Type: Soil/Water*
Sample Condition: Intact-Chilled
Sample Rec'd By: CR
C-O-C# 295, 296, 297 298, 299, 300

Lab ID#	Field Code Description	TRPH Analysis Date	TRPH ppm	BTEX Analysis Date	Benzene ppm	Toluene ppm	Ethyl Benzene ppm	Xylenes ppm	TOTAL BTEX	Total Lead Analysis Date	Total Lead ppm
6101*	CAFB-4154-SP1/TB			7/22/94	<0.005	<0.005	<0.005	<0.015	<0.030		
6102*	CAFB-4154-SP1/RB	7/14/94	<0.200	7/22/94	<0.005	<0.005	<0.005	<0.015	<0.030	7/14/94	<0.1
6103*	CAFB-4154-01-SEW/RB	7/14/94	<0.200	7/22/94	<0.005	<0.005	<0.005	<0.015	<0.030	7/14/94	<0.1
6104	CAFB-4154-01-SEW	7/14/94	1065	7/22/94	<0.1	<0.1	<0.1	<0.3	<0.6	7/14/94	9.4
6105	CAFB-4154-01-SW	7/14/94	<5	7/22/94	<0.1	<0.1	<0.1	<0.3	<0.6	7/14/94	<5
6106	CAFB-4154-01-EW	7/14/94	1695	7/22/94	<0.1	<0.1	4.59	89.67	<94.46	7/14/94	9.4
6107	CAFB-4154-02-EW	7/14/94	1040	7/22/94	0.12	<0.1	1.73	16.23	<18.18	7/14/94	9.5
6108	CAFB-4154-03-EW	7/15/94	3945	7/22/94	<0.1	<0.1	2.33	55.14	<57.67	7/14/94	<5
6109	CAFB-4154-03-NEW	7/14/94	<5	7/22/94	<0.1	<0.1	<0.1	<0.3	<0.6	7/14/94	<5
6110	CAFB-4154-03-NW	7/14/94	<5	7/22/94	<0.1	<0.1	<0.1	<0.3	<0.6	7/14/94	<5

TRPH QC:

Standard Recovery(%)	93
Spike Recovery(%)	118
Duplicate(%Diff)	10
Blank(Soil)	<5
Blank(Water)	<0.200

BTEX QC:

	Std Rec(%)	Spike Rec(%)
Benzene	99	97
Toluene	114	113
Ethyl Benzene	96	97
Xylenes	111	111

Duplicate(%Diff)	Blank
12	<0.005

LEAD QC:

Standard Recovery(%)	102
Spike Recovery(%)	88
Duplicate(%Diff)	17
Blank(Soil)	<5
Blank(Water)	<0.1

METHODS: BTEX-EPA SW 846-8020 with EPA Method 5030, TRPH-EPA SW 846-418.1 with EPA Method 9071, LEAD-EPA SW 846-7421 with 3020/3050

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Rick Baker
Rick Baker Lab Director

7/24/94
Date

ENVIRON

Environmental Laboratories, Inc.
812 W. 9TH
Amarillo, Texas 79101
806-376-7004

Client: Perry Williams Inc.
P.O. Box 30206
Amarillo, TX 79120

Project Name: Carswell AFB
Location: Site#: 4154
DO#: 0046 #13
Date Sampled: 7/8/94
Date Received: 7/10/94
Sample Type: Soil/Water*
Sample Condition: Intact-Chilled
Sample Rec'd By: CR
C-O-C# 295, 296, 297 298, 299, 300

Lab ID#	Field Code Description	TRPH Analysis Date	TRPH ppm	BTEX Analysis Date	Benzene ppm	Toluene ppm	Ethyl Benzene ppm	Xylenes ppm	TOTAL BTEX	Total Lead Analysis Date	Total Lead ppm
6111	CAFB-4154-04-NW	7/15/94	85	7/15/94	<0.1	<0.1	<0.1	<0.3	<0.6	7/14/94	5.0
6112	CAFB-4154-04-NWW	7/15/94	455	7/22/94	<0.1	0.63	0.94	2.25	<3.92	7/14/94	<5
6113	CAFB-4154-04-WW	7/15/94	605	7/22/94	<0.1	<0.1	1.79	22.46	<24.45	7/14/94	<5
6114	CAFB-4154-05-WW	7/15/94	145	7/15/94	<0.1	<0.1	0.82	1.43	<2.45	7/14/94	10.4
6115	CAFB-4154-05-WW/QC	7/15/94	135	7/22/94	<0.1	<0.1	0.16	1.31	<1.67	7/14/94	8.0
6116	CAFB-4154-06-WW	7/15/94	1330	7/15/94	<0.1	<0.1	1.09	3.40	<4.69	7/14/94	5.6
6117	CAFB-4154-06-SWW	7/15/94	<5	7/15/94	<0.1	<0.1	<0.1	<0.3	<0.6	7/14/94	<5
6118	CAFB-4154-06-SW	7/15/94	65	7/15/94	<0.1	<0.1	<0.1	<0.3	<0.6	7/14/94	<5
6119	CAFB-4154-01-BH	7/15/94	1025	7/15/94	<0.1	<0.1	1.81	10.37	<12.38	7/14/94	18.1
6120	CAFB-4154-02-BH	7/15/94	1270	7/15/94	<0.1	<0.1	1.53	7.42	<9.15	7/14/94	<5

TRPH QC:

Standard Recovery(%)	99
Spike Recovery(%)	116
Duplicate(%Diff)	19
Blank(Soil)	<5

BTEX QC:

	Std Rec(%)	Spike Rec(%)
Benzene	94	87
Toluene	111	105
Ethyl Benzene	92	102
Xylenes	105	90

Duplicate(%Diff)	Blank
0	<0.005

LEAD QC:

Standard Recovery(%)	101
Spike Recovery(%)	118
Duplicate(%Diff)	10
Blank(Soil)	<5

METHODS: BTEX-EPA SW 846-8020 with EPA Method 5030, TRPH-EPA SW 846-418.1 with EPA Method 9071, LEAD-EPA SW 846-7421 with 3020/3050

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Rick Baker
Rick Baker Lab Director

7/24/94
Date

ENVIRON

Environmental Laboratories, Inc.
812 W. 9TH
Amarillo, Texas 79101
806-376-7004

Client: Perry Williams Inc.
P.O. Box 30206
Amarillo, TX 79120

Project Name: Carswell AFB
Location: Site#: 4154
DO#: 0046 #13
Date Sampled: 7/8/94
Date Received: 7/10/94
Sample Type: Soil/Water*
Sample Condition: Intact-Chilled
Sample Rec'd By: CR
C-O-C# 295, 296, 297 298, 299, 300

Lab ID#	Field Code Description	TRPH Analysis Date	TRPH ppm	BTEX Analysis Date	Benzene ppm	Toluene ppm	Ethyl Benzene ppm	Xylenes ppm	TOTAL BTEX	Total Lead Analysis Date	Total Lead ppm
6121	CAFB-4154-03-BH	7/15/94	280	7/15/94	<0.1	<0.1	1.10	2.32	<3.62	7/14/94	<5
6122	CAFB-4154-04-BH	7/15/94	595	7/15/94	<0.1	<0.1	3.35	10.38	<13.93	7/14/94	21.5
6123	CAFB-4154-04-BH/QC	7/15/94	845	7/15/94	<0.1	<0.1	2.92	7.76	<10.88	7/14/94	21.6
6124	CAFB-4154-05-BH	7/15/94	235	7/15/94	<0.1	<0.1	1.21	3.79	<5.20	7/14/94	<5
6125	CAFB-4154-06-BH	7/15/94	85	7/15/94	<0.1	<0.1	0.80	1.02	<2.02	7/14/94	<5
6126	CAFB-4154-SP1	7/15/94	725	7/15/94	<0.1	<0.1	0.77	0.94	<1.91	7/14/94	<5
6127	CAFB-4154-SP2	7/15/94	520	7/16/94	<0.1	<0.1	0.73	1.07	<2.00	7/14/94	21.0
6128	CAFB-4154-SP3	7/15/94	700	7/16/94	<0.1	0.62	0.72	0.87	<2.31	7/14/94	36.2
6129	CAFB-4154-SP4	7/15/94	195	7/16/94	<0.1	<0.1	0.68	0.72	<1.60	7/14/94	<5
6130	CAFB-4154-SP5	7/15/94	970	7/16/94	<0.1	<0.1	1.59	11.20	<12.99	7/14/94	15.7

TRPH QC:

Standard Recovery(%)	102
Spike Recovery(%)	90
Duplicate(%Diff)	7
Blank(Soil)	<5

BTEX QC:

	Std Rec(%)	Spike Rec(%)
Benzene	86	98
Toluene	98	121
Ethyl Benzene	85	118
Xylenes	93	100

Duplicate(%Diff)	Blank
7	<0.005

LEAD QC:

Standard Recovery(%)	105
Spike Recovery(%)	106
Duplicate(%Diff)	14
Blank(Soil)	<5

METHODS: BTEX-EPA SW 846-8020 with EPA Method 5030, TRPH-EPA SW 846-418.1 with EPA Method 9071, LEAD-EPA SW 846-7421 with 3020/3050

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Rick Baker
Rick Baker Lab Director

7/24/94
Date

ENVIRON

Environmental Laboratories, Inc.
812 W. 9TH
Amarillo, Texas 79101
806-376-7004

Client: Perry Williams Inc.
P.O. Box 30206
Amarillo, TX 79120

Project Name: Carswell AFB
Location: Site#: 4154
DO#: 0046 #13
Date Sampled: 7/8/94
Date Received: 7/10/94
Sample Type: Soil/Water*
Sample Condition: Intact-Chilled
Sample Rec'd By: CR
C-O-C# 295, 296, 297 298, 299, 300

Lab ID#	Field Code Description	TRPH Analysis Date	TRPH ppm	BTEX Analysis Date	Benzene ppm	Toluene ppm	Ethyl Benzene ppm	Xylenes ppm	TOTAL BTEX	Total Lead Analysis Date	Total Lead ppm
6131	CAFB-4154-SP6	7/15/94	435	7/16/94	<0.1	<0.1	0.21	2.18	<2.59	7/14/94	74.2
6132	CAFB-4154-SP7	7/15/94	80	7/16/94	<0.1	<0.1	<0.1	<0.3	<0.6	7/14/94	12.3
6133	CAFB-4154-SP8	7/15/94	<5	7/16/94	<0.1	<0.1	<0.1	<0.3	<0.6	7/14/94	7.2
6134	CAFB-4154-SP9	7/15/94	255	7/16/94	<0.1	<0.1	<0.1	<0.3	<0.6	7/14/94	10.7
6135	CAFB-4154-SP10	7/15/94	1605	7/16/94	<0.1	0.65	1.42	7.07	<9.24	7/14/94	9.4
6136	CAFB-4154-SP11	7/15/94	610	7/16/94	<0.1	<0.1	<0.1	0.31	<0.61	7/14/94	50.8
6137	CAFB-4154-SP12	7/15/94	1295	7/16/94	0.55	<0.1	1.50	14.37	<16.52	7/14/94	22.2
6138	CAFB-4154-SP3/QC	7/15/94	660	7/16/94	<0.1	<0.1	0.79	1.16	<2.15	7/14/94	38.8
6139	CAFB-4154-SP13	7/15/94	500	7/16/94	<0.1	<0.1	0.86	1.85	<2.91	7/14/94	10.1
6140	CAFB-4154-SP14	7/15/94	1255	7/16/94	<0.1	<0.1	1.16	2.63	<3.99	7/14/94	10.9

TRPH QC:

Standard Recovery(%)	101
Spike Recovery(%)	108
Duplicate(%Diff)	5
Blank(Soil)	<5

BTEX QC:

	Std Rec(%)	Spike Rec(%)
Benzene	92	91
Toluene	107	104
Ethyl Benzene	91	89
Xylenes	105	101

Duplicate(%Diff)	Blank
6	<0.005

LEAD QC:

Standard Recovery(%)	114
Spike Recovery(%)	110
Duplicate(%Diff)	6
Blank(Soil)	<5

METHODS: BTEX-EPA SW 846-8020 with EPA Method 5030, TRPH-EPA SW 846-418.1 with EPA Method 9071, LEAD-EPA SW 846-7421 with 3020/3050

Rick Baker
Rick Baker Lab Director

7/24/94
Date

ENVIRON

Environmental Laboratories, Inc.
812 W. 9TH
Amarillo, Texas 79101
806-376-7004

Client: Perry Williams Inc.
P.O. Box 30206
Amarillo, TX 79120

Project Name: Carswell AFB
Location: Site#: 4154
DO#: 0046 #13
Date Sampled: 7/8/94
Date Received: 7/10/94
Sample Type: Soil/Water*
Sample Condition: Intact-Chilled
Sample Rec'd By: CR
C-O-C# 295, 296, 297 298, 299, 300

Lab ID#	Field Code Description	TRPH Analysis Date	TRPH ppm	BTEX Analysis Date	Benzene ppm	Toluene ppm	Ethyl Benzene ppm	Xylenes ppm	TOTAL BTEX	Total Lead Analysis Date	Total Lead ppm
6141	CAFB-4154-SP15	7/15/94	1055	7/16/94	<0.1	<0.1	1.39	6.87	<8.46	7/14/94	<5
6142	CAFB-4154-SP16	7/15/94	<5	7/16/94	<0.1	<0.1	<0.1	<0.3	<0.6	7/14/94	<5
6143	CAFB-4154-SP17	7/19/94	1095	7/16/94	0.35	<0.1	2.62	47.23	<50.30	7/14/94	16.4
6144	CAFB-4154-SP18	7/19/94	555	7/16/94	<0.1	<0.1	<0.1	<0.3	<0.6	7/14/94	<5
6145	CAFB-4154-SP19	7/19/94	<5	7/17/94	<0.1	<0.1	<0.1	<0.3	<0.6	7/14/94	8.2
6146	CAFB-4154-SP20	7/19/94	100	7/17/94	<0.1	<0.1	<0.1	<0.3	<0.6	7/14/94	<5
6147	CAFB-4154-SP19/QC	7/19/94	<5	7/17/94	<0.1	<0.1	<0.1	<0.3	<0.6	7/14/94	8.1

TRPH QC:

Standard Recovery(%)	101
Spike Recovery(%)	108
Duplicate(%Diff)	5
Blank(Soil)	<5

BTEX QC:

	Std Rec(%)	Spike Rec(%)
Benzene	94	87
Toluene	111	105
Ethyl Benzene	92	102
Xylenes	105	90

Duplicate(%Diff)	Blank
0	<0.005

LEAD QC:

Standard Recovery(%)	110
Spike Recovery(%)	112
Duplicate(%Diff)	0
Blank(Soil)	<5

METHODS: BTEX-EPA SW 846-8020 with EPA Method 5030, TRPH-EPA SW 846-418.1 with EPA Method 9071, LEAD-EPA SW 846-7421 with 3020/3050

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Rick Baker
Rick Baker Lab Director

7/24/94
Date

ENVIRONMENTAL LABORATORIES, INC.
812 W. 9TH
Amarillo, Texas 79101
(806) 376-7004

CHAIN OF CUSTODY RECORD

Project Manager: Perry Williams, Inc.	Phone #: (806) 373-5820
Address: 2700 S. Wilson, Ama TX 79103	FAX #: (806) 371-0340
Project Number: D.O.# 0046 #13	Project Name: CARSWELL AFB
Project Location: Site: 4154	Sampler Signature: Donnie B White

ID# Lab Use Only	Sampling Date	Sampling Time	Matrix (s,w,f)	Composite	Grab	Boring	Field ID #	Field Description	No. of Containers	Analysis: BTEX	Analysis: TRPH	Analysis: TOT. LEAD				Remarks (Preservation, Size/Amount, etc.)
6101	7/8/94	9:55A	W				B176651 B176648	CAFB.4154.SP1/TB	2	X						HCl
6102	↓	10:00A	W	✓			B176626 B176662	CAFB.4154.SP1/RB	2	X						HCl 40 mil VOA's
↓	↓	10:00A	W	✓			A3210601	CAFB.4154.SP1/RB	1		X					HCl / Liter Amber
↓	↓	10:00A	W	✓				CAFB.4154.SP1/RB	1			X				HNO_3 250 ml Plast.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)
Donnie B. White	7-9-94	15:00	John Stevenson
John Stevenson	7-10-94	13:00	
	7/10/94	1:00p	Received for Laboratory by: Signature

Remarks:

	Yes	No
Headspace		✓
Properly Sealed	✓	
Chilled to 40°F		

If Yes, Amt. _____
If No, Explain _____
If No, Temp _____

Type of Container _____

Additional comments: Hand delivered

ENVIRON
ENVIRONMENTAL LABORATORIES, INC.
812 W. 9TH
Amarillo, Texas 79101
(806) 376-7004

CHAIN OF CUSTODY RECORD

Project Manager: Perry Williams, Inc.	Phone #: (806) 373-5820
Address: 2700 S. Wilson, Ama TX 79103	FAX #: (806) 371-0340
Project Number: D.O.# 0046 #13	Project Name: CARSWELL AFB
Project Location: Site: 4154	Sampler Signature: Donnie B. White

ID# Lab Use Only	Sampling Date	Sampling Time	Matrix (s,w,f)	Composite	Grab	Boring	Field ID #	Field Description	No. of Containers	Analysis: BTEX	Analysis: TRPH	Analysis: TOTAL LEAD				Remarks (Preservation, Size/Amount, etc.)	
—	7/8/94	8:00AM	W		✓		~~B176684 B176681~~	~~CAFB TRIP BLANK~~	~~2~~	~~X~~						~~HCl 40mil VOAS~~	
6103		8:05AM	W	✓			B176644 B176701	CAFB-4154-01-SEW/RB	2	X						HCl	40mil VOA's
↓		8:05AM	W	✓			A3210567	CAFB-4154.01.SEW/RB	1		X					HCl	1 Liter Amber
		8:05AM	W	✓				CAFB-4154-01-SEW/RB	1			X				HNO_3	250mil Plast.
6104		8:05AM	S		X		D292255	CAFB-4154.01.SEW	1	X	X	X				ICE	4 oz JAR
6105		8:10AM	S		X		D292259	CAFB-4154.01.SW	1	X	X	X					
06		8:15AM	S		X		D292264	CAFB.4154.01.EW	1	X	X	X					
07		8:15AM	S		X		D292267	CAFB.4154.02.EW	1	X	X	X					
08		8:20AM	S		X		D292278	CAFB.4154.03.EW	1	X	X	X					
09	↓	8:25AM	S		X		D292280	CAFB.4154.03.NEW	1	X	X	X				↓	↓

Relinquished by: (Signature)	Date	Time	Received by: (Signature)
Donnie B White	7-8-94	15:00	[signature] 7-9-94
[signature]	7-10-94	13:00	
	7/10/94	1:00p	Received for Laboratory by: Signature [signature]

Remarks:

	Yes	No
Headspace		✓
Properly Sealed	✓	
Chilled to 40°F	✓	

If Yes, Amt. _____
If No, Explain _____
If No, Temp _____

Type of Container _____

Additional comments: Hand delivered

ENVIRON
ENVIRONMENTAL LABORATORIES, INC.
812 W. 9TH
Amarillo, Texas 79101
(806) 376-7004

CHAIN OF CUSTODY RECORD

Project Manager: Perry Williams, Inc.	Phone #: (806) 373-5820
Address: 2700 S. Wilson, Ama TX 79103	FAX #: (806) 371-0340
Project Number: D.O.# 0046 #13	Project Name: CARSWELL AFB
Project Location: Site: 4154	Sampler Signature: Donna B White

ID# Lab Use Only	Sampling Date	Sampling Time	Matrix (s,w,f)	Composite	Grab	Boring	Field ID #	Field Description	No. of Containers	Analysis: BTEX	Analysis: TRPH	Analysis: TOT. LEAD				Remarks (Preservation, Size/Amount, etc.)	
6110	7/8/94	8:30AM	S		X		D292256	CAFB.4154.03.NW	1	X	X	X				ICE	4 oz Jar
6111		8:35A	S		X		D292260	CAFB.4154.04.NW	1	X	X	X					
12		8:40A	S		X		D292263	CAFB.4154.04.NWW	1	X	X	X					
13		8:45A	S		X		D292245	CAFB.4154.04.WW	1	X	X	X					
14		8:50A	S		✓		D292248	CAFB.4154.05.WW	1	X	X	X					
15		8:50A	S		✓		D292252	CAFB.4154.05.WW/qc	1	X	X	X					
16		8:55A	S		X		D292254	CAFB.4154.06.WW	1	X	X	X					
17		9:00A	S		X		D292258	CAFB.4154.06.SWW	1	X	X	X					
18		9:05A	S		X		D292262	CAFB.4154.06.SW	1	X	X	X					
6119		9:10A	S		X		D292266	CAFB.4154.01.BH	1	X	X	X					

Relinquished by: (Signature)	Date	Time	Received by: (Signature)
Donna B White	7-8-94	15:00	John Stevenson
John Stevenson	7-10-94	13:00	
	7/10/94	1:00p	Received for Laboratory by: Signature

Remarks:

	Yes	No
Headspace		✓
Properly Sealed	✓	
Chilled to 40°F	✓	

If Yes, Amt. _____
If No, Explain _____
If No, Temp _____

Type of Container 4oz

Additional comments: Hand delivered

ENVIRON
ENVIRONMENTAL LABORATORIES, INC.
812 W. 9TH
Amarillo, Texas 79101
(806) 376-7004

CHAIN OF CUSTODY RECORD

Project Manager: Perry Williams, Inc.	Phone #: (806) 373-5820
Address: 2700 S. Wilson, Ama TX 79103	FAX #: (806) 371-0340
Project Number: D.O.# 0046 #13	Project Name: CARSWELL AFB
Project Location: Site: 4154	Sampler Signature: Donnie B White

ID# Lab Use Only	Sampling Date	Sampling Time	Matrix (s,w,f)	Composite	Grab	Boring	Field ID #	Field Description	No. of Containers	Analysis: BTEX	Analysis: TRPH	Analysis: TOT. LEAD				Remarks (Preservation, Size/Amount, etc.)	
6120	7/8/94	9:15A	S		X		D292247	CAFB·4154·02·BH	1	X	X	X				ICE	4oz JAR
21		9:20A	S		X		D292251	CAFB·4154·03·BH	1	X	X	X					
22		9:25A	S	✓	✓		D292250	CAFB·4154·04·BH	1	X	X	X					
23		9:25A	S	✓	✓		D292257	CAFB·4154·04·BH/qc	1	X	X	X					
24		9:30A	S		X		D292261	CAFB·4154·05·BH	1	X	X	X					
25		9:35A	S		X		D292265	CAFB·4154·06·BH	1	X	X	X					
26		10:15A	S	✓	✓		C066292	CAFB·4154·SP1	1	X	X	X					
27		10:20A	S	✓	✓		C066324	CAFB·4154·SP2	1	X	X	X					
28		10:25A	S	X			C066286	CAFB·4154·SP3	1	X	X	X					
6129		10:30A	S	✓	✓		C066325	CAFB·4154·SP4	1	X	X	X				✓	✓

Relinquished by: (Signature)	Date	Time	Received by: (Signature)
Donnie B White	7-8-94	15:00	John Stevenson
John Stevenson	7-10-94	13:00	
	7/10/94	1:00p	Received for Laboratory by: Signature

Remarks:

	Yes	No
Headspace		✓
Properly Sealed	✓	
Chilled to 40°F	✓	

If Yes, Amt. _____
If No, Explain _____
If No, Temp _____

Type of Container 4oz

Additional comments: Hand Delivered

ENVIRONMENTAL LABORATORIES, INC.
812 W. 9TH
Amarillo, Texas 79101
(806) 376-7004

CHAIN OF CUSTODY RECORD

Project Manager: Perry Williams, Inc.	Phone # (806) 373-5820
Address: 2700 S. Wilson, Ama TX 79103	FAX #: (806) 371-0340
Project Number: D.O.# 0046 #13	Project Name: CARSWELL AFB
Project Location: Site: 4154	Sampler Signature: Dommie B White

ID# Lab Use Only	Sampling Date	Sampling Time	Matrix (s,w,f)	Composite	Grab	Boring	Field ID #	Field Description	No. of Containers	Analysis: BTEX	Analysis: TRPH	Analysis: TOT. LEAD				Remarks (Preservation, Size/Amount, etc.)	
6130	7/8/94	10:35A	S	✓			C066291	CAFB.4154.SP5	1	X	X	X				KE	4oz JAR
31		10:40A	S	✓			C066322	CAFB.4154.SP6	1	X	X	X					
32		10:45A	S	✓			C066317	CAFB.4154.SP7	1	X	X	X					
33		10:50A	S	✓			C066306	CAFB.4154.SP8	1	X	X	X					
34		10:55A	S	✓			C066308	CAFB.4154.SP9	1	X	X	X					
35		11:00A	S	✓			C066313	CAFB.4154.SP10	1	X	X	X					
36		11:05A	S	✓			C066302	CAFB.4154.SP11	1	X	X	X					
37		11:10A	S	✓			C066304	CAFB.4154.SP12	1	X	X	X					
38		10:25A	S	X			C066320	CAFB.4154.SP3/QC	1	X	X	X					
6139		11:15A	S	✓			C066314	CAFB.4154.SP13	1	X	X	X				✓	✓

Relinquished by: (Signature)	Date	Time	Received by: (Signature)
Dommie B. White	7-9-94	15:00	John Stevenson
John Stevenson	7-10-94	13:00	
	7/12/94	1:00P	

Remarks:

	Yes	No
Headspace		✓
Properly Sealed	✓	
Chilled to 40°F	✓	

If Yes, Amt. _____
If No, Explain _____
If No, Temp _____

Type of Container 4oz

Additional comments: Hand delivered

ENVIRONMENTAL LABORATORIES, INC.
812 W. 9TH
Amarillo, Texas 79101
(806) 376-7004

CHAIN OF CUSTODY RECORD

Project Manager: Perry Williams, Inc.	Phone # (806) 373-5820
Address: 2700 S. Wilson, Ama TX 79103	FAX #: (806) 371-0340
Project Number: D.O.# 0046 #13	Project Name: CARSWELL AFB
Project Location: Site: 4154	Sampler Signature: Dannie B White

ID# Lab Use Only	Sampling Date	Sampling Time	Matrix (s,w,f)	Composite	Grab	Boring	Field ID #	Field Description	No. of Containers	Analysis: BTEX	Analysis: TRPH	Analysis: TOT. LEAD				Remarks (Preservation, Size/Amount, etc.)	
6140	7/8/94	11:20A	S	✓	✓		C066216	CAFB·4154·SP14	1	X	X	X				ICE	4oz Jar
41		11:25A	S	✓	✓		C066278	CAFB·4154·SP15	1	X	X	X					
42		11:30A	S	✓	✓		C066184	CAFB·4154·SP16	1	X	X	X					
43		11:35A	S	✓	✓		C066300	CAFB·4154·SP17	1	X	X	X					
44		11:40A	S	✓	✓		C066294	CAFB·4154·SP18	1	X	X	X					
45		11:45A	S	X			C066318	CAFB·4154·SP19	1	X	X	X					
46		11:50A	S	✓	✓		C066209	CAFB·4154·SP20	1	X	X	X					
6147		11:45A	S	X			C066295	CAFB·4154·SP19/QC	1	X	X	X					

Relinquished by: (Signature)	Date	Time	Received by: (Signature)
Dannie B White	7-8-94	15:00	John Stevenson
John Stevenson	7-10-94	15:00	
	7/10/94	1:00p	Received for Laboratory by: Signature

Remarks:

	Yes	No
Headspace		✓
Properly Sealed	✓	
Chilled to 40°F	✓	

If Yes, Amt. _____
If No, Explain _____
If No, Temp _____

Type of Container 4oz

Additional comments: Hand delivered

ENVIRON

Environmental Laboratories, Inc.
812 W. 9TH
Amarillo, Texas 79101
806-376-7004

Client: Perry Williams Inc.
P.O. Box 30206
Amarillo, TX 79120

Project Name: Carswell AFB
Location: Site#: 4150
DO#: 0013
Date Sampled: 7/11/94
Date Received: 7/12/94
Sample Type: Soil/Water*
Sample Condition: Intact-Chilled
Sample Rec'd By: TD
C-O-C# 294, 301, 310

Lab ID#	Field Code Description	TRPH Analysis Date	TRPH ppm	BTEX Analysis Date	Benzene ppm	Toluene ppm	Ethyl Benzene ppm	Xylenes ppm	TOTAL BTEX	Total Lead Analysis Date	Total Lead ppm
6301*	TRIP BLANK			7/20/94	<0.005	<0.005	<0.005	<0.015	<0.030		
6302*	CAFB-4150-01-SEW/RB	7/19/94	<0.200	7/20/94	<0.005	<0.005	<0.005	<0.015	<0.030	7/21/94	<0.1
6303	CAFB-4150-01-SEW	7/19/94	1035	7/21/94	0.23	<0.1	1.39	14.75	<16.47	7/21/94	<5
6304	CAFB-4150-01-SW	7/19/94	<5	7/19/94	<0.1	<0.1	<0.1	<0.3	<0.6	7/21/94	<5
6305	CAFB-4150-01-EW	7/22/94	505	7/19/94	<0.1	<0.1	<0.1	2.33	<2.63	7/21/94	11.8
6306	CAFB-4150-02-EW	7/22/94	95	7/20/94	<0.1	<0.1	<0.1	<0.3	<0.6	7/21/94	6.5
6307	CAFB-4150-03-EW	7/22/94	<5	7/20/94	<0.1	<0.1	<0.1	<0.3	<0.6	7/21/94	13.7
6308	CAFB-4150-03-NEW	7/22/94	1015	7/20/94	<0.1	<0.1	1.19	36.47	<37.86	7/21/94	7.7
6309	CAFB-4150-03-NW	7/22/94	<5	7/20/94	<0.1	<0.1	<0.1	<0.3	<0.6	7/21/94	9.4
6310	CAFB-4150-04-NW	7/22/94	1095	7/21/94	<0.1	<0.1	1.80	6.47	<8.47	7/21/94	6.3

TRPH QC:

Standard Recovery(%)	93
Spike Recovery(%)	98
Duplicate(%Diff)	0
Blank(Soil)	<5
Blank(Water)	<0.200

BTEX QC:

	Std Rec(%)	Spike Rec(%)
Benzene	106	116
Toluene	107	116
Ethyl Benzene	107	116
Xylenes	103	124

Duplicate(%Diff)	Blank
0	<0.005

LEAD QC:

Standard Recovery(%)	111
Spike Recovery(%)	95
Duplicate(%Diff)	5
Blank(Soil)	<5
Blank(Water)	<0.1

METHODS: BTEX-EPA SW 846-8020 with EPA Method 5030, TRPH-EPA SW 846-418.1 with EPA Method 9071, LEAD-EPA SW 846-7421 with 3020/3050

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Rick Baker
Rick Baker Lab Director

7/24/94
Date

ENVIRON

Environmental Laboratories, Inc.
812 W. 9TH
Amarillo, Texas 79101
806-376-7004

Client: Perry Williams Inc.
P.O. Box 30206
Amarillo, TX 79120

Project Name: Carswell AFB
Location: Site#: 4150
DO#: 0013
Date Sampled: 7/11/94
Date Received: 7/12/94
Sample Type: Soil/Water*
Sample Condition: Intact-Chilled
Sample Rec'd By: TD
C-O-C# 294, 301, 310

Lab ID#	Field Code Description	TRPH Analysis Date	TRPH ppm	BTEX Analysis Date	Benzene ppm	Toluene ppm	Ethyl Benzene ppm	Xylenes ppm	TOTAL BTEX	Total Lead Analysis Date	Total Lead ppm
6311	CAFB-4150-04-NWW	7/22/94	760	7/21/94	<0.1	<0.1	1.00	4.53	<5.73	7/21/94	<5
6312	CAFB-4150-04-WW	7/22/94	2495	7/20/94	<0.1	<0.1	2.10	55.34	<57.64	7/21/94	14.3
6313	CAFB-4150-05-WW	7/22/94	1475	7/20/94	0.12	<0.1	1.73	30.41	<32.36	7/21/94	<5
6314	CAFB-4150-05-WW/QC	7/22/94	1420	7/16/94	<0.1	<0.1	1.25	33.44	<34.89	7/21/94	<5
6315	CAFB-4150-06-WW	7/22/94	665	7/20/94	<0.1	<0.1	1.16	3.93	<5.29	7/21/94	9.6
6316	CAFB-4150-06-SWW	7/22/94	525	7/20/94	<0.1	<0.1	1.03	3.30	<4.53	7/21/94	6.7
6317	CAFB-4150-06-SW	7/22/94	150	7/20/94	<0.1	<0.1	0.95	1.97	<3.12	7/21/94	6.5
6318	CAFB-4150-01-BH	7/22/94	735	7/20/94	<0.1	<0.1	1.46	43.87	<45.53	7/21/94	<5
6319	CAFB-4150-02-BH	7/22/94	490	7/20/94	<0.1	<0.1	0.74	0.88	<1.82	7/21/94	10.6
6320	CAFB-4150-03-BH	7/22/94	650	7/17/94	<0.1	<0.1	0.33	2.30	<2.83	7/21/94	602.8

TRPH QC:

Standard Recovery(%)	95
Spike Recovery(%)	77
Duplicate(%Diff)	0
Blank(Soil)	<5

BTEX QC:

	Std Rec(%)	Spike Rec(%)
Benzene	104	90
Toluene	109	95
Ethyl Benzene	103	91
Xylenes	106	86

Duplicate(%Diff)	Blank
4	<0.005

LEAD QC:

Standard Recovery(%)	115
Spike Recovery(%)	119
Duplicate(%Diff)	0
Blank(Soil)	<5

METHODS: BTEX-EPA SW 846-8020 with EPA Method 5030, TRPH-EPA SW 846-418.1 with EPA Method 9071, LEAD-EPA SW 846-7421 with 3020/3050

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Rick Baker
Rick Baker Lab Director

7/24/94
Date

ENVIRON

Environmental Laboratories, Inc.
812 W. 9TH
Amarillo, Texas 79101
806-376-7004

Client: Perry Williams Inc.
P.O. Box 30206
Amarillo, TX 79120

Project Name: Carswell AFB
Location: Site#: 4150
DO#: 0013
Date Sampled: 7/11/94
Date Received: 7/12/94
Sample Type: Soil/Water*
Sample Condition: Intact-Chilled
Sample Rec'd By: TD
C-O-C# 294, 301, 310

Lab ID#	Field Code Description	TRPH Analysis Date	TRPH ppm	BTEX Analysis Date	Benzene ppm	Toluene ppm	Ethyl Benzene ppm	Xylenes ppm	TOTAL BTEX	Total Lead Analysis Date	Total Lead ppm
6321	CAFB-4150-04-BH	7/22/94	3025	7/16/94	<0.1	<0.1	4.54	109.72	<114.46	7/21/94	25.4
6322	CAFB-4150-04-BH/QC	7/22/94	2865	7/16/94	<0.1	<0.1	3.74	107.32	<111.26	7/21/94	23.3
6323	CAFB-4150-05-BH	7/22/94	1975	7/22/94	<0.1	<0.1	4.21	121.72	<126.13	7/21/94	<5
6324	CAFB-4150-06-BH	7/22/94	<5	7/21/94	<0.1	<0.1	0.56	0.54	<1.30	7/21/94	24.1

TRPH QC:

Standard Recovery(%)	96
Spike Recovery(%)	125
Duplicate(%Diff)	8
Blank(Soil)	<5

BTEX QC:

	Std Rec(%)	Spike Rec(%)
Benzene	87	105
Toluene	92	112
Ethyl Benzene	87	104
Xylenes	87	107

Duplicate(%Diff)	Blank
0	<0.005

LEAD QC:

Standard Recovery(%)	103
Spike Recovery(%)	105
Duplicate(%Diff)	0
Blank(Soil)	<5

METHODS: BTEX-EPA SW 846-8020 with EPA Method 5030, TRPH-EPA SW 846-418.1 with EPA Method 9071, LEAD-EPA SW 846-7421 with 3020/3050

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Rick Baker
Rick Baker Lab Director

7/24/94
Date

ENVIRONMENTAL LABORATORIES, INC.
812 W. 9TH
Amarillo, Texas 79101
(806) 376-7004

CHAIN OF CUSTODY RECORD

Project Manager: Perry Williams, Inc.	Phone # (806) 373-5820
Address: 2700 S. Wilson, Ama TX 79103	FAX #: (806) 371-0340
Project Number: D.O.# 0013	Project Name: Carswell AFB
Project Location: Site: 4150	Sampler Signature: Donna B White

ID# Lab Use Only	Sampling Date	Sampling Time	Matrix (s,w,f)	Composite	Grab	Boring	Field ID #	Field Description	No. of Containers	Analysis: BTEX	Analysis: TRPH	Analysis: Lead				Remarks (Preservation, Size/Amount, etc.)	
6301	7/11/94	9:50	w				6680 6645	Trip Blank	2	✓						HCl	40 ml. VOA's
02		9:55		✓			0595	CAFB·4150·01·SEW/RB	1		✓					HCl	1 Lit. amber
				✓					1			✓				HNO_3	250 ml Plast.
				✓			6623 6663		2	✓						HCl	40 ml VOA's
03		10:00	S		✓		5924	CAFB·4150·01·SEW	1	✓	✓	✓					4 oz SAR
04		10:05					5910	·01·SW									
05		10:10					5923	·01·EW									
06		10:15					5926	·02·EW									
07		10:20					5911	·03·EW									
08		10:25					5916	·03·NEW									

Relinquished by: (Signature)	Date	Time	Received by: (Signature)
Donna B White	7-11-94	15:30	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)
Relinquished by: (Signature)	Date	Time	Received by: (Signature)
Relinquished by: (Signature)	Date	Time	Received by: (Signature)
Relinquished by: (Signature)	Date 7/12	Time 11:45 am	Received for Laboratory by: Signature

Remarks:

	Yes	No
Headspace		✓
Properly Sealed	✓	
Chilled to 40°F	✓	

If Yes, Amt. _____
If No, Explain _____
If No, Temp _____

Type of Container 4 OZ. SEALED

Additional comments: COOLER CUSTODY SEAL INTACT

REC'D VIA LONE STAR OVERNIGHT

ENVIRONMENTAL LABORATORIES, INC.
812 W. 9TH
Amarillo, Texas 79101
(806) 376-7004

CHAIN OF CUSTODY RECORD

Project Manager: Perry Williams, Inc.	Phone # (806) 373-5820
Address: 2700 S. Wilson, Ama TX 79103	FAX #: (806) 371-0340
Project Number: D.O.# 0013	Project Name: Carswell AFB
Project Location: Site: 4150	Sampler Signature: Donna B White

ID# Lab Use Only	Sampling Date	Sampling Time	Matrix (s,w,f)	Composite	Grab	Boring	Field ID #	Field Description	No. of Containers	Analysis: BTEX	Analysis: TRPH	Analysis: Lead					Remarks (Preservation, Size/Amount, etc.)
6309	7/11/94	10:30	S		✓		5917	CAFB·4150·03·NW	1	✓	✓	✓					4 oz Jar
10		10:35					5928	·04·NW									
11		10:40					5915	·04·NWW									
12		10:45					5906	·04·WW									
13		10:50					5920	·05·WW									
14		10:50					5929	·05·WW/QC									
15		10:55					5909	·06·WW									
16		11:00					5914	·06·SWW									
17		11:05					5931	·06·SW									
18		11:10			✓		5922	·01 BH									

Relinquished by: (Signature)	Date	Time	Received by: (Signature)
Donna B White	7-11-94	15:30	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)
Relinquished by: (Signature)	Date	Time	Received by: (Signature)
Relinquished by: (Signature)	Date	Time	Received by: (Signature)
Relinquished by: (Signature)	Date 7/12	Time 4:45 am	Received for Laboratory by: Signature

Remarks:

	Yes	No
Headspace		✓
Properly Sealed	✓	
Chilled to 40°F	✓	

If Yes, Amt. _____
If No, Explain _____
If No, Temp _____

Type of Container 4 OZ. SEALED

Additional comments: REC'D VIA LONESTAR OVERNIGHT
COOLER CUSTODY SEAL INTACT

ENVIRONMENTAL LABORATORIES, INC.
812 W. 9TH
Amarillo, Texas 79101
(806) 376-7004

CHAIN OF CUSTODY RECORD

Project Manager: Perry Williams, Inc.	Phone # (806) 373-5820
Address: 2700 S. Wilson, Ama TX 79103	FAX #: (806) 371-0340
Project Number: D.O.# 0013	Project Name: Carswell AFB
Project Location: Site: 4150	Sampler Signature: Donna B White

ID# Lab Use Only	Sampling Date	Sampling Time	Matrix (s,w,f)	Composite	Grab	Boring	Field ID #	Field Description	No. of Containers	Analysis: BTEX	Analysis: TRPH	Analysis: Lead					Remarks (Preservation, Size/Amount, etc.)
6319	7/11/94	11:15	S		✓		5912	CAFB·4150·02·BH	1	✓	✓	✓					4 oz JAR
20		11:20					5925	·03·BH									
21		11:25					5907	·04·BH									
22		11:25					5921	·04·BH/QC									
23		11:30					5930	·05·BH									
24		11:35					6044	·06·BH									

Relinquished by: (Signature)	Date	Time	Received by: (Signature)
Donna B White	7-11-94	15:30	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)
Relinquished by: (Signature)	Date	Time	Received by: (Signature)
Relinquished by: (Signature)	Date	Time	Received by: (Signature)
Relinquished by: (Signature)	Date 7/12	Time 4:45am	Received for Laboratory by: Signature

Remarks:

	Yes	No
Headspace		✓
Properly Sealed	✓	
Chilled to 40°F	✓	

If Yes, Amt. _____
If No, Explain _____
If No, Temp _____

Type of Container 4 OZ. SEALED

Additional comments: REC'D VIA LONE STAR OVERNIGHT
COOLER CUSTODY SEAL INTACT

ENVIRON

Environmental Laboratories, Inc.
812 W. 9TH
Amarillo, Texas 79101
806-376-7004

Client: Perry Williams Inc.
P.O. Box 30206
Amarillo, TX 79120

Project Name: Carswell AFB
Location: Site#: 4150
DO#: 0013
Date Sampled: 7/11/94
Date Received: 7/12/94
Sample Type: Soil/Water*
Sample Condition: Intact-Chilled
Sample Rec'd By: TD
C-O-C# 303, 304, 305 306, 308, 309

Lab ID#	Field Code Description	TRPH Analysis Date	TRPH ppm	BTEX Analysis Date	Benzene ppm	Toluene ppm	Ethyl Benzene ppm	Xylenes ppm	TOTAL BTEX	Total Lead Analysis Date	Total Lead ppm
6401*	TRIP BLANK			7/17/94	<0.005	<0.005	<0.005	<0.015	<0.030		
6402*	CAFB-4150-SP1/RB	7/22/94	<0.200	7/17/94	<0.005	<0.005	<0.005	<0.015	<0.030	7/22/94	<0.1
6403	CAFB-4150-SP1	7/21/94	345	7/17/94	<0.1	<0.1	<0.1	<0.3	<0.6	7/22/94	14.4
6404	CAFB-4150-SP1/QC	7/21/94	285	7/17/94	<0.1	<0.1	<0.1	<0.3	<0.6	7/22/94	15.3
6405	CAFB-4150-SP2	7/21/94	1195	7/17/94	<0.1	<0.1	0.12	1.15	<1.47	7/22/94	15.2
6406	CAFB-4150-SP3	7/21/94	600	7/17/94	<0.1	<0.1	<0.1	<0.3	<0.6	7/22/94	8.8
6407	CAFB-4150-SP4	7/21/94	630	7/17/94	<0.1	<0.1	<0.1	<0.3	<0.6	7/22/94	7.6
6408	CAFB-4150-SP5	7/21/94	<5	7/17/94	<0.1	<0.1	<0.1	<0.3	<0.6	7/22/94	6.6
6409	CAFB-4150-SP6	7/21/94	<5	7/22/94	<0.1	<0.1	<0.1	<0.3	<0.6	7/22/94	8.5
6410	CAFB-4150-SP7	7/21/94	805	7/22/94	<0.1	<0.1	1.16	3.86	<5.22	7/22/94	9.8

TRPH QC:

Standard Recovery(%)	113
Spike Recovery(%)	97
Duplicate(%Diff)	0
Blank(Soil)	<5
Blank(Water)	<0.200

BTEX QC:

	Std Rec(%)	Spike Rec(%)
Benzene	97	99
Toluene	111	115
Ethyl Benzene	94	97
Xylenes	106	111

Duplicate(%Diff)	Blank
0	<0.005

LEAD QC:

Standard Recovery(%)	110
Spike Recovery(%)	94
Duplicate(%Diff)	13
Blank(Soil)	<5
Blank(Water)	<0.1

METHODS: BTEX-EPA SW 846-8020 with EPA Method 5030, TRPH-EPA SW 846-418.1 with EPA Method 9071, LEAD-EPA SW 846-7421 with 3020/3050

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Rick Baker Lab Director

7/25/94
Date

ENVIRON

Environmental Laboratories, Inc.
812 W. 9TH
Amarillo, Texas 79101
806-376-7004

Client: Perry Williams Inc.
P.O. Box 30206
Amarillo, TX 79120

Project Name: Carswell AFB
Location: Site#: 4150
DO#: 0013
Date Sampled: 7/11/94
Date Received: 7/12/94
Sample Type: Soil/Water*
Sample Condition: Intact-Chilled
Sample Rec'd By: TD
C-O-C# 303, 304, 305 306, 308, 309

Lab ID#	Field Code Description	TRPH Analysis Date	TRPH ppm	BTEX Analysis Date	Benzene ppm	Toluene ppm	Ethyl Benzene ppm	Xylenes ppm	TOTAL BTEX	Total Lead Analysis Date	Total Lead ppm
6411	CAFB-4150-SP8	7/22/94	1620	7/22/94	<0.1	0.55	1.60	7.50	<9.75	7/22/94	43.6
6412	CAFB-4150-SP9	7/22/94	<5	7/18/94	<0.1	<0.1	<0.1	<0.3	<0.6	7/22/94	14.2
6413	CAFB-4150-SP10	7/22/94	<5	7/18/94	<0.1	<0.1	<0.1	<0.3	<0.6	7/22/94	5.5
6414	CAFB-4150-SP11	7/22/94	2110	7/22/94	<0.1	0.53	3.07	61.87	<65.57	7/22/94	12.9
6415	CAFB-4150-SP11/QC	7/22/94	1400	7/22/94	<0.1	0.55	2.24	36.79	<39.68	7/22/94	11.1
6416	CAFB-4150-SP12	7/22/94	340	7/18/94	<0.1	<0.1	<0.1	<0.3	<0.6	7/22/94	10.9
6417	CAFB-4150-SP13	7/22/94	<5	7/17/94	<0.1	<0.1	<0.1	<0.3	<0.6	7/22/94	12.4
6418	CAFB-4150-SP14	7/22/94	240	7/18/94	<0.1	<0.1	<0.1	<0.3	<0.6	7/22/94	<5
6419	CAFB-4150-SP15	7/22/94	<5	7/19/94	<0.1	<0.1	<0.1	0.94	<1.24	7/22/94	<5
6420	CAFB-4150-SP16	7/22/94	<5	7/16/94	<0.1	<0.1	<0.1	<0.3	<0.6	7/22/94	<5

TRPH QC:

Standard Recovery(%)	95
Spike Recovery(%)	102
Duplicate(%Diff)	8
Blank(Soil)	<5

BTEX QC:

	Std Rec(%)	Spike Rec(%)
Benzene	92	98
Toluene	107	121
Ethyl Benzene	91	118
Xylenes	105	100

Duplicate(%Diff)	Blank
0	<0.005

LEAD QC:

Standard Recovery(%)	107
Spike Recovery(%)	109
Duplicate(%Diff)	4
Blank(Soil)	<5

METHODS: BTEX-EPA SW 846-8020 with EPA Method 5030, TRPH-EPA SW 846-418.1 with EPA Method 9071, LEAD-EPA SW 846-7421 with 3020/3050

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Rick Baker
Rick Baker Lab Director

7/25/94
Date

ENVIRON

Environmental Laboratories, Inc.
812 W. 9TH
Amarillo, Texas 79101
806-376-7004

Client: Perry Williams Inc.
P.O. Box 30206
Amarillo, TX 79120

Project Name: Carswell AFB
Location: Site#: 4150
DO#: 0013
Date Sampled: 7/11/94
Date Received: 7/12/94
Sample Type: Soil/Water*
Sample Condition: Intact-Chilled
Sample Rec'd By: TD
C-O-C# 303, 304, 305 306, 308, 309

Lab ID#	Field Code Description	TRPH Analysis Date	TRPH ppm	BTEX Analysis Date	Benzene ppm	Toluene ppm	Ethyl Benzene ppm	Xylenes ppm	TOTAL BTEX	Total Lead Analysis Date	Total Lead ppm
6421	CAFB-4150-SP17	7/22/94	<5	7/17/94	<0.1	<0.1	<0.1	<0.3	<0.6	7/22/94	<5
6422	CAFB-4150-SP18	7/22/94	<5	7/17/94	<0.1	<0.1	<0.1	<0.3	<0.6	7/22/94	<5
6423	CAFB-4150-SP19	7/22/94	170	7/17/94	<0.1	<0.1	<0.1	<0.3	<0.6	7/22/94	6.9
6424	CAFB-4150-SP20	7/22/94	265	7/17/94	<0.1	<0.1	<0.1	<0.3	<0.6	7/22/94	<5
6425*	CAFB-4150-SP20/RB	7/22/94	<0.200	7/17/94	<0.005	<0.005	<0.005	<0.015	<0.030	7/22/94	<0.1
6426	CAFB-4150-SP21	7/22/94	30	7/17/94	<0.1	<0.1	<0.1	<0.3	<0.6	7/22/94	<5
6427	CAFB-4150-SP21/QC	7/22/94	125	7/17/94	<0.1	<0.1	<0.1	<0.3	<0.6	7/22/94	<5
6428	CAFB-4150-SP22	7/22/94	<5	7/17/94	<0.1	<0.1	<0.1	<0.3	<0.6	7/22/94	<5
6429	CAFB-4150-SP23	7/22/94	<5	7/25/94	<0.1	<0.1	<0.1	<0.3	<0.6	7/22/94	<5
6430	CAFB-4150-SP24	7/22/94	145	7/17/94	<0.1	<0.1	<0.1	<0.3	<0.6	7/22/94	9.3

TRPH QC:

Standard Recovery(%)	89
Spike Recovery(%)	118
Duplicate(%Diff)	0
Blank(Soil)	<5
Blank(Water)	<0.200

BTEX QC:

	Std Rec(%)	Spike Rec(%)
Benzene	97	89
Toluene	111	100
Ethyl Benzene	94	96
Xylenes	106	110

Duplicate(%Diff)	Blank
0	<0.005

LEAD QC:

Standard Recovery(%)	113
Spike Recovery(%)	116
Duplicate(%Diff)	0
Blank(Soil)	<5
Blank(Water)	<0.1

METHODS: BTEX-EPA SW 846-8020 with EPA Method 5030, TRPH-EPA SW 846-418.1 with EPA Method 9071, LEAD-EPA SW 846-7421 with 3020/3050

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Rick Baker
Rick Baker Lab Director

7/25/94
Date

ENVIRON

Environmental Laboratories, Inc.
812 W. 9TH
Amarillo, Texas 79101
806-376-7004

Client: Perry Williams Inc.
P.O. Box 30206
Amarillo, TX 79120

Project Name: Carswell AFB
Location: Site#: 4150
DO#: 0013
Date Sampled: 7/11/94
Date Received: 7/12/94
Sample Type: Soil/Water*
Sample Condition: Intact-Chilled
Sample Rec'd By: TD
C-O-C# 303, 304, 305 306, 308, 309

Lab ID#	Field Code Description	TRPH Analysis Date	TRPH ppm	BTEX Analysis Date	Benzene ppm	Toluene ppm	Ethyl Benzene ppm	Xylenes ppm	TOTAL BTEX	Total Lead Analysis Date	Total Lead ppm
6431	CAFB-4150-SP25	7/22/94	35	7/18/94	<0.1	<0.1	<0.1	<0.3	<0.6	7/22/94	5.8
6432	CAFB-4150-SP26	7/22/94	<5	7/18/94	<0.1	<0.1	<0.1	<0.3	<0.6	7/22/94	<5
6433	CAFB-4150-SP27	7/22/94	<5	7/18/94	<0.1	<0.1	<0.1	<0.3	<0.6	7/22/94	<5
6434	CAFB-4150-SP28	7/22/94	305	7/18/94	<0.1	<0.1	<0.1	<0.3	<0.6	7/22/94	7.0
6435	CAFB-4150-SP29	7/22/94	<5	7/18/94	<0.1	<0.1	<0.1	<0.3	<0.6	7/22/94	16.9
6436	CAFB-4150-SP30	7/22/94	510	7/18/94	<0.1	<0.1	0.13	2.43	<2.76	7/22/94	17.4
6437	CAFB-4150-SP31	7/22/94	85	7/18/94	<0.1	<0.1	<0.1	<0.3	<0.6	7/22/94	10.6
6438	CAFB-4150-SP31/QC	7/22/94	70	7/19/94	<0.1	<0.1	<0.1	<0.3	<0.6	7/22/94	10.8
6439	CAFB-4150-SP32	7/22/94	<5	7/25/94	<0.1	<0.1	<0.1	<0.3	<0.6	7/22/94	8.2
6440	CAFB-4150-SP33	7/22/94	3495	7/19/94	<0.1	<0.1	0.32	0.44	<0.96	7/22/94	14.5

TRPH QC:

Standard Recovery(%)	89
Spike Recovery(%)	85
Duplicate(%Diff)	8
Blank(Soil)	<5

BTEX QC:

	Std Rec(%)	Spike Rec(%)
Benzene	95	101
Toluene	93	101
Ethyl Benzene	98	100
Xylenes	103	97

Duplicate(%Diff)	Blank
0	<0.005

LEAD QC:

Standard Recovery(%)	113
Spike Recovery(%)	104
Duplicate(%Diff)	18
Blank(Soil)	<5

METHODS: BTEX-EPA SW 846-8020 with EPA Method 5030, TRPH-EPA SW 846-418.1 with EPA Method 9071, LEAD-EPA SW 846-7421 with 3020/3050

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Rick Baker
Rick Baker Lab Director

7/25/94
Date

ENVIRON

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812 W. 9TH
Amarillo, Texas 79101
806-376-7004

Client: Perry Williams Inc.
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Project Name: Carswell AFB
Location: Site#: 4150
DO#: 0013
Date Sampled: 7/11/94
Date Received: 7/12/94
Sample Type: Soil/Water*
Sample Condition: Intact-Chilled
Sample Rec'd By: TD
C-O-C# 303, 304, 305 306, 308, 309

Lab ID#	Field Code Description	TRPH Analysis Date	TRPH ppm	BTEX Analysis Date	Benzene ppm	Toluene ppm	Ethyl Benzene ppm	Xylenes ppm	TOTAL BTEX	Total Lead Analysis Date	Total Lead ppm
6441	CAFB-4150-SP34	7/22/94	165	7/19/94	<0.1	<0.1	<0.1	<0.3	<0.6	7/22/94	<5
6442	CAFB-4150-SP35	7/22/94	1690	7/22/94	<0.1	<0.1	1.57	7.70	<9.47	7/22/94	27.3
6443	CAFB-4150-SP36	7/22/94	965	7/22/94	<0.1	0.58	1.33	2.43	<4.44	7/22/94	34.9
6444	CAFB-4150-SP37	7/22/94	650	7/22/94	<0.1	<0.1	1.38	3.40	<4.98	7/22/94	28.2
6445	CAFB-4150-SP38	7/22/94	15	7/22/94	<0.1	<0.1	<0.1	<0.3	<0.6	7/22/94	<5
6446	CAFB-4150-SP39	7/22/94	235	7/22/94	<0.1	<0.1	<0.1	0.32	<0.62	7/22/94	7.9
6447	CAFB-4150-SP40	7/22/94	<5	7/22/94	<0.1	<0.1	<0.1	<0.3	<0.6	7/22/94	9.3

TRPH QC:

Standard Recovery(%)	90
Spike Recovery(%)	85
Duplicate(%Diff)	8
Blank(Soil)	<5

BTEX QC:

	Std Rec(%)	Spike Rec(%)
Benzene	104	105
Toluene	109	112
Ethyl Benzene	103	104
Xylenes	106	107

Duplicate(%Diff)	Blank
0	<0.005

LEAD QC:

Standard Recovery(%)	105
Spike Recovery(%)	98
Duplicate(%Diff)	18
Blank(Soil)	<5

METHODS: BTEX-EPA SW 846-8020 with EPA Method 5030, TRPH-EPA SW 846-418.1 with EPA Method 9071, LEAD-EPA SW 846-7421 with 3020/3050

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Rick Baker
Rick Baker Lab Director

7/25/94
Date

ENVIRONMENTAL LABORATORIES, INC.
812 W. 9TH
Amarillo, Texas 79101
(806) 376-7004

CHAIN OF CUSTODY RECORD

Project Manager: Perry Williams, Inc.	Phone #: (806) 373-5820
Address: 2700 S. Wilson, Ama TX 79103	FAX #: (806) 371-0340
Project Number: D.O.# 0013	Project Name: CARSWELL AFB
Project Location: Site: 4150	Sampler Signature: Donna B White

ID# Lab Use Only	Sampling Date	Sampling Time	Matrix (s,w,f)	Composite	Grab	Boring	Field ID #	Field Description	No. of Containers	Analysis: BTEX	Analysis: TRPH	Analysis: Lead				Remarks (Preservation, Size/Amount, etc.)	
6401	7/11/94	11:40	W				6628 6659	TRIP Blank	4	✓						HCl	40 ml. VOA'S
02		11:45	W	✓			6678 6660	CAFB·4150·SP1/RB	2	✓						HCl	40 ml. VOA'S
↓		↓	↓	✓			0596	↓	1		✓					HCl	1 Lt. Amber
				✓			—		1			✓				HNO_3	250 ml. Plastic
03		11:50	S	✓			6261	CAFB·4150·SP1	1	✓	✓	✓					4 oz Jar
04		11:50					6245	·SP1/QC									
05		11:50					6246	·SP2									
06		12:00					6262	·SP3									
07		12:05				*	6267	·SP4									
08	↓	12:10	↓	↓			6242	↓ ·SP5	↓	↓	↓	↓					↓

Relinquished by: (Signature)	Date	Time	Received by: (Signature)
Donna B White	7-11-94	15:30	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)
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)
*	7/12/94	11:35 am	

Remarks:

	Yes	No
Headspace		✓
Properly Sealed	✓	
Chilled to 40°F	✓	

If Yes, Amt. _____
If No, Explain _____
If No, Temp _____

Type of Container 4 oz SEALED / 40 ml VOA / 1 L AMBER / 250 ml PLASTIC

Additional comments: * REC'D VIA LONE STAR OVERNIGHT
COOLER CUSTODY SEAL INTACT

* FIELD ID # ON JAR 6257 / NOT 6267

ENVIRONMENTAL LABORATORIES, INC.
812 W. 9TH
Amarillo, Texas 79101
(806) 376-7004

CHAIN OF CUSTODY RECORD

Project Manager: Perry Williams, Inc.	Phone #: (806) 373-5820
Address: 2700 S. Wilson, Ama TX 79103	FAX #: (806) 371-0340
Project Number: D.O.# 0013	Project Name: Carswell AFB
Project Location: Site: 4150	Sampler Signature: Donna B. White

ID# Lab Use Only	Sampling Date	Sampling Time	Matrix (s,w,f)	Composite	Grab	Boring	Field ID #	Field Description	No. of Containers	Analysis: BTEX	Analysis: TRPH	Analysis: Lead					Remarks (Preservation, Size/Amount, etc.)
6409	7/11/94	12:15	S	✓			6243	CAFB·4150 · SP6	1	✓	✓	✓					4 oz JAR
10		12:20					6258	· SP7									
11		12:25					6253	· SP8									
12		12:30					6227	· SP9									
13		12:35					6228	· SP10									
14		12:40					6254	· SP11									
15		12:40					6225	· SP11/QC									
16		12:45					6204	· SP12									
17		12:50					6163	· SP13									
18		12:55					6206	· SP14									

Relinquished by: (Signature)	Date	Time	Received by: (Signature)
Donna B. White	7-11-94	15:30	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)
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
	7/12/94	11:35 am	

Remarks:

	Yes	No
Headspace		✓
Properly Sealed	✓	
Chilled to 40°F	✓	

If Yes, Amt. _____
If No, Explain _____
If No, Temp _____

Type of Container 4 oz. SEALED

Additional comments: REC'D VIA LONE STAR OVERNIGHT COOLER CUSTODY SEAL INTACT

ENVIRONMENTAL LABORATORIES, INC.
812 W. 9TH
Amarillo, Texas 79101
(806) 376-7004

CHAIN OF CUSTODY RECORD

Project Manager: Perry Williams, Inc.	Phone #: (806) 373-5820
Address: 2700 S. Wilson, Ama TX 79103	FAX #: (806) 371-0340
Project Number: D.O.# 0013	Project Name: Carswell AFB
Project Location: Site: 4150	Sampler Signature: Donni B White

ID# Lab Use Only	Sampling Date	Sampling Time	Matrix (s,w,f)	Composite	Grab	Boring	Field ID #	Field Description	No. of Containers	Analysis: BTEX	Analysis: TRPH	Analysis: Load				Remarks (Preservation, Size/Amount, etc.)
19	7/11/94	1300	S	✓			6250	CAFB·4150· SP15	1	✓	✓	✓				4oz Jars
20		1305					6197	SP16								
21		1310					6191	SP17								
22		1315					6174	SP18								
23		1320					5913	SP19								
24		1325		✓			2140	SP20	✓	✓	✓	✓				
25		1325		✓			6661 6658	SP20/RB	2	✓					HCl	40 ml VOAs
↓		1325		✓			3506	SP20/RB	1		✓				HCl	1 Lit. Amber
↓		1325		✓			—	SP20/RB	1			✓			HNO3	250 ml Plast
26	↓	1330	↓	↓			6219	SP21	1	✓	✓	✓				4oz Jar

Relinquished by: (Signature)	Date	Time	Received by: (Signature)
Donni B White	7-11-94	15:30	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)
Relinquished by: (Signature)	Date	Time	Received by: (Signature)
Relinquished by: (Signature)	Date	Time	Received by: (Signature)
Relinquished by: (Signature)	Date 7/12/94	Time 11:35 am	Received for Laboratory by Signature

Remarks:

	Yes	No
Headspace		✓
Properly Sealed	✓	
Chilled to 40°F	✓	

If Yes, Amt. _____
If No, Explain _____
If No, Temp _____

Type of Container 4oz SEALED / 40 mL VOA / 1 L AMBER / 250 mL Plastic

Additional comments: REC'D VIA LONE STAR OVERNIGHT
COOLER Custody SEAL INTACT

ENVIRON
ENVIRONMENTAL LABORATORIES, INC.
812 W. 9TH
Amarillo, Texas 79101
(806) 376-7004

CHAIN OF CUSTODY RECORD

Project Manager: Perry Williams, Inc.	Phone #: (806) 373-5820
Address: 2700 S. Wilson, Ama TX 79103	FAX #: (806) 371-0340
Project Number: D.O.# 0013	Project Name: Caldwell AFB
Project Location: Site: 4150	Sampler Signature: Dom B White

ID# Lab Use Only	Sampling Date	Sampling Time	Matrix (s,w,f)	Composite	Grab	Boring	Field ID #	Field Description	No. of Containers	Analysis: BTEX	Analysis: TRPH	Analysis: Lead					Remarks (Preservation, Size/Amount, etc.)
0427	7/11/94	1330	S	✓			6249	CAFB. 4150 · SP21/QC	1	✓	✓	✓					4 oz SAR
28		1335					6102	· SP22									
29		1340					6118	· SP23									
30		1345					6101	· SP24									
31		1350					6117	· SP25									
32		1355					6144	· SP26									
33		1400					6120	· SP27									
34		1405					6119	· SP28									
35		1410					6143	· SP29									
36		1415					6145	· SP30									

Relinquished by: (Signature)	Date	Time	Received by: (Signature)
Dom B White	7-11-94	15:30	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)
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
	7/12/94	11:35 am	

Remarks:

	Yes	No
Headspace		✓
Properly Sealed	✓	
Chilled to 40°F	✓	

If Yes, Amt. _____
If No, Explain _____
If No, Temp _____

Type of Container 4 oz. SEALED

Additional comments: Rec'd via LONE STAR OVERNIGHT COOLER CUSTODY SEAL INTACT

ENVIRONMENTAL LABORATORIES, INC.
812 W. 9TH
Amarillo, Texas 79101
(806) 376-7004

CHAIN OF CUSTODY RECORD

Project Manager: Perry Williams, Inc.	Phone #: (806) 373-5820
Address: 2700 S. Wilson, Ama TX 79103	FAX #: (806) 371-0340
Project Number: D.O.# 0013	Project Name: Carswell AFB
Project Location: Site: 4150	Sampler Signature: Donnie B. White

ID# Lab Use Only	Sampling Date	Sampling Time	Matrix (s,w,f)	Composite	Grab	Boring	Field ID #	Field Description	No. of Containers	Analysis: BTEX	Analysis: TRPH	Analysis: Lead					Remarks (Preservation, Size/Amount, etc.)
6437	7/11/94	1420	S	✓			6110	CAFB·4150·SP31	1	✓	✓	✓					4oz JARS
6438		1420					5984	SP31/QC									
39		1425					6149	SP32									
40		1430					6146	SP33									
41		1435					6112	SP34									
42		1440					6141	SP35									
43		1445					6111	SP36									
44		1450					6147	SP37									
45		1455					6113	SP38									
6446		1500					6036	SP39									

Relinquished by: (Signature)	Date	Time	Received by: (Signature)
Donnie B White	7-11-94	15:30	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)
Relinquished by: (Signature)	Date	Time	Received by: (Signature)
Relinquished by: (Signature)	Date	Time	Received by: (Signature)
Relinquished by: (Signature)	Date 7/12/94	Time 11:75 AM	Received for Laboratory by: Signature

Remarks:

	Yes	No
Headspace		✓
Properly Sealed	✓	
Chilled to 40°F	✓	

If Yes, Amt. _____
If No, Explain _____
If No, Temp _____

Type of Container 4oz. SEALED

Additional comments: RECD VIA LONE STAR OVERNIGHT
COOLER CUSTODY SEAL INTACT

ENVIRON
ENVIRONMENTAL LABORATORIES, INC.
812 W. 9TH
Amarillo, Texas 79101
(806) 376-7004

CHAIN OF CUSTODY RECORD

Project Manager: Perry Williams, Inc.	Phone #: (806) 373-5820
Address: 2700 S. Wilson, Ama TX 79103	FAX #: (806) 371-0340
Project Number: D.O.# 0013	Project Name: CARSWOLL AFB
Project Location: Site: 4150	Sampler Signature: Donna B White

ID# Lab Use Only	Sampling Date	Sampling Time	Matrix (s,w,f)	Composite	Grab	Boring	Field ID #	Field Description	No. of Containers	Analysis: BTEX	Analysis: TRPH	Analysis: Lead					Remarks (Preservation, Size/Amount, etc.)
6447	7/11/94	1505	S	✓			6016	CAFB. 4150. SP40	1	✓	✓						4 oz JAR

Relinquished by: (Signature)	Date	Time	Received by: (Signature)
Donna B White	7-11-94	15:30	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)
Relinquished by: (Signature)	Date	Time	Received by: (Signature)
Relinquished by: (Signature)	Date	Time	Received by: (Signature)
Relinquished by: (Signature)	Date 7/12/94	Time 11:35am	Received for Laboratory by: Signature

Remarks:

	Yes	No
Headspace		✓
Properly Sealed	✓	
Chilled to 40°F	✓	

If Yes, Amt. _____
If No, Explain _____
If No, Temp _____

Type of Container 4 oz. SEALED

Additional comments: RECD VIA LONE STAR OVERNIGHT
COOLER CUSTODY SEAL INTACT

APPENDIX M:

SOIL COMPACTION TESTS

SWL

351. 181

IN-PLACE DENSITY TEST SERVICE ORDER

1010

Client:
roject:

Client No.
Report No.
Date: 7/26
Auth:

ervice:

JOBSITE INFORMATION	TEST	METHOD	REQUIREMENTS
CONTR:	DENSITY		85%
OBSITE:			
MAP NO:	MOISTURE		
TIME:			
EMARKS:			

MOISTURE/DENSITY RELATIONS

M/D NO.	TEST OF	MATERIAL DESCRIPTION	OPTIMUM MOISTURE	MAXIMUM DENSITY
1				119.0
2				
3				

IN-PLACE DENSITY TESTS

EST No.	TEST LOCATION	M/D NO.	MOISTURE CONTENT	DENSITY pcf	PERCENT COMPACTION
1	BLD#4154 - ℄ of PAD 1st		10.7 lbs %	116.6 wet dry	97 %
2	℄ of PAD 2nd		12.1 lbs %	106.0 wet dry	89 %
3	S.W. cor 5' of PAD 3RD		119 lbs %	108.6 wet dry	91 %
4	N.E. Corner		lbs %	wet dry	%
5	S.W. Corner		11.0 lbs %	111.4 wet dry	93 %
6	BLD-4152		130 lbs %	106.4 wet dry	89 %
7	1st LIFT North Side		10.4 lbs %	108.6 wet dry	91 %
8	2nd LIFT North side		12.4 lbs %	109.6 wet dry	92 %
9	3RD LIFT ℄ of PAD		11.0 lbs %	115.2 wet dry	96 %
10	4th LIFT West side of Pad		10.7 lbs %	107.6 wet dry	86 %
	5 LIFT WEST SIDE		11.2	108.2	90

OFF	DIV	TEST	UNITS	RATE

SWL TECH:

IME: START STOP

LIENT REP:

REVIEWED BY:

SWL

IN-PLACE DENSITY TEST SERVICE ORDER

1010

Client:
Project:

Client No.
Report No.
Date: 7/2 day
Auth:

Service:

JOBSITE INFORMATION	TEST	METHOD	REQUIREMENTS
CONTR:			
JOBSITE:	DENSITY		
MAP NO:			
TIME:	MOISTURE		
REMARKS:			

MOISTURE/DENSITY RELATIONS

M/D ID.	TEST OF	MATERIAL DESCRIPTION	OPTIMUM MOISTURE	MAXIMUM DENSITY
1				
2				
3				

IN-PLACE DENSITY TESTS

TEST No.	TEST LOCATION	M/D NO.	MOISTURE CONTENT	DENSITY pcf	PERCENT COMPACTION
1			lbs %	wet dry	%
2	41150 1ST ¢ of PAD		lbs 12.6 %	wet 112.9 dry	94 %
3	2nd ¢ of PAD		lbs 13.0 %	wet 111.3 dry	93 %
4	3rd SW corner		lbs 11.0 %	wet 108.8 dry	91 %
5	4th SE corner		lbs 12.6 %	wet 109.6 dry	92 %
6	5th C. of PAD		lbs 12.0 %	wet 108.9 dry	91 %
7			lbs %	wet dry	%
8			lbs %	wet dry	%
9			lbs %	wet dry	%
10			lbs %	wet dry	%

SWL TECH:

TIME: START STOP

CLIENT REP:

OFF	DIV	TEST	UNITS	RATE

REVIEWED BY:

FINAL PAGE

ADMINISTRATIVE RECORD

FINAL PAGE

FINAL PAGE

ADMINISTRATIVE RECORD

FINAL PAGE