Woodward-Clyde
Engineering & sciences applied to the earth & its environment

Can do a bit of overexc, re-sample; if low levels left the close case w/o GW investg.

96 NOV 25 AM 9:59
ENVIRONMENTAL PROTECTION

November 22, 1996

Ms. Eva Chu
Hazardous Materials Specialist
Alameda County Health Care Services Agency
Environmental Health Services
Environmental Protection (LOP)
1131 Harbor Bay Parkway, Second Floor
Alameda, California, 94502

Subject: Underground Storage Tank Removal Report
Parks RFTA
POL Point, Building 888
Dublin, California
Project No. ORHZ005

Dear Ms. Chu:

Woodward-Clyde Federal Services (Woodward-Clyde) has been contracted by HAZWRAP/Lockheed Martin Energy Systems, Inc. (HAZWRAP) to conduct underground storage tank (UST) closure activities at the inactive POL Point Building 888, Parks Reserve Forces Training Area (PRFTA) in Dublin, California (Figure 1). The tank removal activities were conducted in accordance with the Tank Closure Plan submitted to Alameda County, Environmental Health Services (ACEHS) on June 25, 1996, and approved by ACEHS on June 26, 1996. This letter report describes tank removal and soil sampling activities at Building 888 that were conducted on July 2, 1996, and is divided into the following sections: Background (Site Location, Site Description, and Site History); Tank Removal Activities; Soil Sampling Procedures, Sample Collection and Analysis; Stockpile Sampling and Analysis; and Conclusions.

BACKGROUND

PRFTA is located within the northeast quadrant of the intersection of Interstates 580 and 680 in Dublin, California (Figure 1), in Townships 2 and 3 South, Range 1 East on the Dublin 7.5 minute topographic quadrangle in Alameda and Contra Costa Counties. PRFTA occupies approximately 2800 acres and is bounded by multiple entities. PRFTA's neighbors include Federal Correctional Institutions, Santa Rita Rehabilitation Center, Alameda County Santa Rita Jail, Tassajara Creek Regional Park, local businesses, and residential districts. Tenant organizations who lease buildings or space at PRFTA include Federal entities, private

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10370 Old Placerville Rd., Suite 104 • Sacramento, CA 95827-2505
916-368-0988 • Fax 916-368-0967

companies, and private and public organizations. The Building 888 site is located along the east-central border of PRFTA at the intersection of Monroe and 4th streets (Figure 2). The site is an inactive fuel distribution station consisting of two pump dispenser islands, an oil-water separator, two 10,000-gallon USTs and one 500-gallon UST, and Building 888 (Figure 3). The site is enclosed within a chain-link fence with two access gates.

TANK REMOVAL ACTIVITIES

On July 2, 1996, Woodward-Clyde observed the removal of two 10,000-gallon, and one 500-gallon steel USTs that were reportedly installed in 1951, from POL Point-Building 888. The two 10,000-gallon USTs reportedly contained diesel and leaded gasoline, and the 500-gallon UST contained waste oil. The tank removal and soil sampling activities were directed by ACEHS. The tank removal was performed by IT Corporation of San Jose, California, under contract with Woodward-Clyde. The USTs were transported by Erickson Trucking to their Richmond, California facility under uniform hazardous waste manifest numbers 95780703 and 95780704.

Tank product piping and two pump dispensers were located just west of the two 10,000-gallon USTs. The 500-gallon waste oil UST was located adjacent to the northwest corner of Building 888. No visible holes were observed in the two-inch diameter product piping, that were connected to the existing pump dispensers. The pump dispensers were operated by suction. An older set of fuel product piping that was previously connected to one of the existing pump dispensers was also discovered. Several holes measuring up to 0.25-inch in diameter were observed in this older piping. A segment of the older product lines appeared to be connected to a former pump dispenser which is no longer present. No cathodic protection devices were observed for the tanks or their appurtances. Approximately 30 cubic yards of soil was removed from the older set of fuel product piping excavation and stockpiled in front of Building 888. Soil excavated from the active product pipeline was placed with the stockpile from the fuel USTs excavation.

Both 10,000-gallon tanks had a diameter of 8-feet and a length of 28-feet. The waste oil tank had a diameter of 4-feet and a length of 6-feet. Approximately 400-gallons of waste-oil and water were removed from the 500-gallon UST and 300-gallons of product were removed from the fuel tanks prior to triple-rinse cleaning. The rinseate was transported by Universal Engineering of Benicia, California to PRC in Patterson, California, under non-hazardous

waste manifest number 1258. Copies of the tank and rinseate manifests are provided in Appendix A.

The USTs were inerted with dry ice prior to their removal from the excavation. The tanks were measured for percent Lower Explosivity Limit (LEL) and percent oxygen using a combustible gas indicator. The LEL values and percent oxygen readings were evaluated by ACEHS and PRFTA Fire Department personnel. Authorization for the removal of the USTs from their excavations was granted by ACEHS.

Discolored soil was observed around the fill pipe during excavation activities around the fill end of the diesel tank. Upon removal of the three USTs, the tanks were inspected for holes and condition. All three USTs appeared to be in good condition with no apparent holes or corrosion. The fuel tank bottoms were located at a depth of approximately 12-feet below ground surface (bgs). No groundwater was observed in the excavation. Approximately 150 cubic yards of soil was removed from the fuel USTs excavation and stockpiled east of Building 888. The waste oil UST bottom was located at a depth of 6-feet bgs. Approximately 20 cubic yards of soil was excavated from the waste oil UST excavation and stockpiled to the south and north.

SOIL SAMPLING PROCEDURES

The general soil sampling procedures were conducted in the following manner. Soil samples were collected by Woodward-Clyde at the direction of Ms. Eva Chu of ACEHS after the tank removal activities. A backhoe was used to collect the soil samples from the bottom of the fuel USTs excavation below the former location of each tank end. One soil sample was collected from below the center of the waste oil UST. Soil samples were collected by scraping away 1 to 2 feet in the area of the backhoe teeth, at a chosen "most representative" sample point. Samples were collected by pushing a clean brass liner into the sample point area until full, then placing a Teflon sheeting and plastic endcap over each end, labeling it with sample number, time and date, then placing on blue ice in an ice chest until the samples could be transported under chain of custody procedures to a HAZWRAP and California certified analytical laboratory.

Two soil samples were collected from below each of the two fuel USTs. Samples collected from below the diesel UST were analyzed for Total Petroleum Hydrocarbons (TPH) as diesel

using modified EPA Method 8015 and benzene, toluene, ethylbenzene, xylenes (BTEX) using EPA Method 8020. Samples collected below the gasoline UST were analyzed for TPH as gasoline using modified EPA Method 8015, BTEX, and lead using EPA Method 6010. One soil sample was collected from below the waste oil tank and analyzed for TPH as diesel, TPH as gasoline, BTEX, Oil and Grease using SM 503E/5520F, Volatile Halocarbons using EPA Method 8010, Extractable Organics using EPA Method 8270B, and Leaking Underground Fuel Tank (LUFT) metals: cadmium, chromium, lead, nickel and zinc using EPA Method 6010. Four soil samples were collected from below the existing product piping lines and three additional samples were collected from below the older set of product lines. The product piping soil samples were analyzed for TPH as gasoline, TPH as diesel, BTEX, and lead. Sample locations are shown in Figure 4.

SAMPLE COLLECTION AND ANALYSIS

Soil sample CPD-1 was collected beneath the south end of the former location of the diesel UST at a depth of 14.5 feet bgs. Laboratory analysis of sample CPD-1 showed concentrations of benzene and toluene were not detected above the analytical laboratory reporting limit. Detectable concentrations of 2.94 mg/Kg (parts per million-ppm) ethylbenzene, 16.3 mg/Kg xylenes, and 937 mg/Kg TPH as diesel were reported in sample CPD-1. Soil sample CPD-2 was collected from beneath the north end of the former location of the diesel UST at a depth of 16 feet bgs. Laboratory analysis of sample CPD-2 showed concentrations of TPH as diesel and BTEX were not detected above the analytical laboratory reporting limit. Analytical results of soil samples collected from below the fuel USTs and fuel product piping are shown in Table 1. The analytical laboratory reports are provided in Appendix B.

Soil sample CPG-1 was collected from beneath the south end of the former location of the gasoline UST at a depth of 16 feet bgs. Laboratory analysis of sample CPG-1 showed concentrations of TPH as diesel and BTEX were not detected above the analytical laboratory reporting limit. Detectable concentrations of 0.071 mg/Kg TPH as gasoline and 7 mg/Kg lead were reported in sample CPG-1. Soil sample CPG-2 was collected from beneath the north end of the former location of gasoline UST at a depth of 16 feet bgs. Laboratory analysis of sample CPG-2 showed concentrations of TPH as diesel and BTEX were not detected above the analytical laboratory reporting limit. Detectable concentrations of 0.141 mg/Kg TPH as gasoline and 8 mg/Kg lead were reported in sample CPG-2 (Table 1).

Soil samples MOP-1 and MOP-2 were collected from beneath the existing fuel product piping of the gasoline pump dispenser at a depth of 1.5 feet bgs. Sample MOP-1 was collected from the west end of the excavated trench, and MOP-2 was collected from the east end (Figure 4). Laboratory analysis of samples MOP-1 and MOP-2 showed concentrations of TPH as diesel, TPH as gasoline, and BTEX were not detected above the analytical laboratory reporting limit. Detectable concentrations of 7.1 mg/Kg and 10.4 mg/Kg lead were reported in samples MOP-1 and MOP-2 respectively.

Soil samples DP-1 and DP-2 were collected from beneath the existing fuel product piping of the diesel pump dispenser at a depth of 2 feet bgs. Sample DP-1 was collected from the west end of the excavated trench, and DP-2 was collected from the east end (Figure 4). Sample DP-1 contained detectable concentrations of 1510 mg/Kg TPH as diesel, 40.2 mg/Kg TPH as gasoline, 0.173 mg/Kg toluene, 0.207 mg/Kg ethylbenzene, 0.857 mg/Kg xylenes, 11.3 mg/Kg lead. Laboratory analysis of sample DP-1 showed concentrations of benzene were not detected above the analytical laboratory reporting limit. Laboratory analysis of sample DP-2 showed concentrations of TPH as diesel and BTEX were not detected above the analytical laboratory reporting limit. Detectable concentrations of 0.14 mg/Kg TPH as gasoline, and 5.8 mg/Kg lead were reported in sample DP-2 .

Soil samples OGP-1, OGP-2, and OGP-3 were collected from below the older set of fuel product lines that were discovered when exposing the north end of the gasoline UST. The excavation trench of the older piping located in the center of the pump island concrete pad , extended from the west edge of the concrete pad to the UST excavation. Discolored soil was observed within the west end of the old piping trench excavation. Sample OGP-1 collected at a depth of 4 feet bgs from the west end of the trench excavation, exhibited a dark green discoloration and slight petroleum hydrocarbon-like odor. Sample OGP-1 contained detectable concentrations of 20.6 mg/Kg TPH as gasoline, 0.055 mg/Kg toluene, 0.0775 mg/Kg ethylbenzene, 0.192 mg/Kg xylenes, and 10.1 mg/Kg lead. Laboratory analysis of sample OGP-1 showed concentrations of TPH as diesel and benzene were not detected above the analytical laboratory reporting limit.

Soil sample OGP-2 collected at a depth of 4 feet bgs from the center of the old piping trench excavation, exhibited a green discoloration and slight petroleum hydrocarbon-like odor. Sample OGP-2 contained detectable concentrations of 87.6 mg/Kg TPH as diesel, 211 mg/Kg

TPH as gasoline, 0.164 mg/Kg benzene, 0.695 mg/Kg toluene, 1.73 mg/Kg ethylbenzene, 2.6 mg/Kg xylenes, and 11 mg/Kg lead. Soil sample OGP-3 collected at a depth of 4 feet bgs from the east end of the trench excavation contained detectabale concentration of 9.7 mg/Kg lead. Laboratory analysis of sample OGP-3 showed concentrations of TPH as diesel, TPH as gasoline, and BTEX were not detected above the analytical laboratory reporting limit.

Soil sample WO-1 was collected from beneath the center of the waste oil UST at a depth of 8.5 feet bgs. Laboratory analysis of sample WO-1 showed concentrations of volatile halocarbons, extractable organics, TPH as diesel, TPH as gasoline, BTEX, and lead were not detected above the analytical laboratory reporting limit. Detectable concentrations of 28 mg/Kg oil and grease, 7.51 mg/Kg cadmium, 35.9 mg/Kg chromium, 38.4 mg/Kg nickel, and 48.7 mg/Kg zinc were reported in sample WO-1. Analytical results of WO-1 are summarized in Table 2.

STOCKPILE SAMPLING AND ANALYSIS

A total of approximately 150 cubic yards of soil was removed from the fuel USTs excavation. Approximately 25 cubic yards of the 150 appeared to be contaminated with petroleum hydrocarbons based on olfactory odors and stained soil. Soil sample DSTP-1 was collected from the petroleum hydrocarbon contaminated soil removed from the fuel UST excavation. Approximately 30 cubic yards of soil was excavated from the older set of fuel product piping that was discovered during tank excavation activities. Samples GPSTP-1 and GPSTP-2 were collected from the old pipeline excavation stockpile.

Labortory analysis of sample DSTP-1 showed concentrations of BTEX were not detected above the analytical laboratory reporting limit. Detectable concentration of 76.8 mg/Kg TPH as diesel was reported in sample DSTP-1. Sample GPSTP-1 contained detectable concentrations of 35.7 mg/Kg TPH as diesel, 1.38 mg/Kg TPH as gasoline, 0.0173 mg/Kg toluene, 0.0317 mg/Kg xylenes, and 10.1 mg/Kg lead. Laboratory analysis of sample GPSTP-1 showed concentrations of benzene and ethylbenzene were not detected above the analytical laboratory reporting limit. Laboratory analysis of sample GPSTP-2 showed concentrations of TPH as diesel, TPH as gasoline, and BTEX were not detected above the analytical laboratory reporting limit. Detectable concentration of 11 mg/Kg lead was reported in sample GPSTP-2.

CONCLUSIONS

Based on the analytical laboratory results of the four soil samples collected below the fuel USTs, an area of diesel contaminated soil remains at the bottom of the south end of the tank excavation at a depth of 14.5 feet bgs near the former location of the diesel UST. Laboratory results also indicate that oil and grease contaminated soil remains in the waste oil UST excavation at a depth of 8.5 feet bgs. Areas of petroleum hydrocarbon contamination exist in the piping trench excavations. Two areas (west and central) are within the older set of product pipeline trench at a depth of 4 feet bgs. One additional area is the west end of the diesel pipeline trench at a depth of 2 feet bgs.

Woodward-Clyde requests from ACEHS appropriate action and clean-up levels for the Building 888 site. If you have any questions regarding this letter report, please call William Loskutoff at (916) 368-0988 or Joe Morgan at (510) 874-3201.

Very truly yours,

WOODWARD-CLYDE

William Loskutoff
Project Geologist

cc: James Wilkins (HAZWRAP-Oakridge)
Marshall Marik (Parks RFTA)
Joe Morgan (WC-Oakland)
Rich Beyak (WC-Oakridge)

Attachments: Table 1 - Analytical Results Fuel USTs, Piping, Stockpiles
Table 2 - Analytical Results Waste Oil UST Sample
Figure 1 - Location Map
Figure 2 - Site Location Map
Figure 3 - Site Map

Figure 4 - Sample Location Map

Appendix A - Copies of USTs and Tank Rinseate Manifests
Appendix B - Copies of Analytical Laboratory Reports

TABLES

Table 1 Analytical Results of Soil Samples Collected During Tank Removal Activities, July 2, 1996, POL Point Building 888, Parks RFTA, Dublin, California. All results are in mg/Kg (parts per million-ppm).

Sample Number	Location	Depth in Feet (bgs)	TPH as Diesel (1)	TPH as gasoline (1)	Benzene (2)	Toluene (2)	Ethyl-benzene (2)	Xylenes (2)	Lead (3)
CPD-1	South end Diesel UST	14.5	937 (4)	NA	<0.1 (5)	<0.1	2.94	16.3	NA
CPD-2	North end Diesel UST	15	<10	NA	<0.002	<0.002	<0.002	<0.002	NA
CPG-1	South end Gasoline UST	16	<10	0.071	<0.002	<0.002	<0.002	<0.002	7
CPG-2	North end Gasoline UST	16	<10	0.141	<0.002	<0.002	<0.002	<0.002	8
MOP-1	West end gas pipeline	1.5	<10	<0.05	<0.002	<0.002	<0.002	<0.002	7.1
MOP-2	East end gas pipeline	1.5	<10	<0.05	<0.002	<0.002	<0.002	<0.002	10.4
DP-1	West end diesel pipeline	2	1510	40.2	<0.01	0.173	0.207	0.857	11.3
DP-2	East end diesel pipeline	2	<10	0.14	<0.002	<0.002	<0.002	<0.002	5.8
OGP-1	West end old gas pipeline	4	<10	20.6	<0.002	0.055	0.0775	0.192	10.1
OGP-2	Center of old gas pipeline	4	87.6	211	0.164	0.695	1.73	2.6	11
OGP-3	East end of old gas pipeline	4	<10	<0.05	<0.002	<0.002	<0.002	<0.002	9.7
DSTP-1	Diesel Stockpile		76.8	NA	<0.002	<0.002	<0.002	<0.002	NA
GPSTP-1	Old gas pipeline Stockpile		35.7	1.38	<0.002	0.0173	<0.002	0.0317	10.1
GPSTP-2	"		<10	<0.05	<0.002	<0.002	<0.002	<0.002	11

Notes:

1) Total Petroleum Hydrocarbons (TPH) as diesel and as gasoline using modified EPA Method 8015.
2) Benzene, Toluene, Ethylbenzene, Xylenes (BTEX) using EPA Method 8020.
3) Total Lead using EPA Method 6010.
4) Shaded cells highlight concentrations detected at or above the analytical laboratory reporting limit.
5) <0.1 = Not detected at or above analytical laboratory reporting limit.

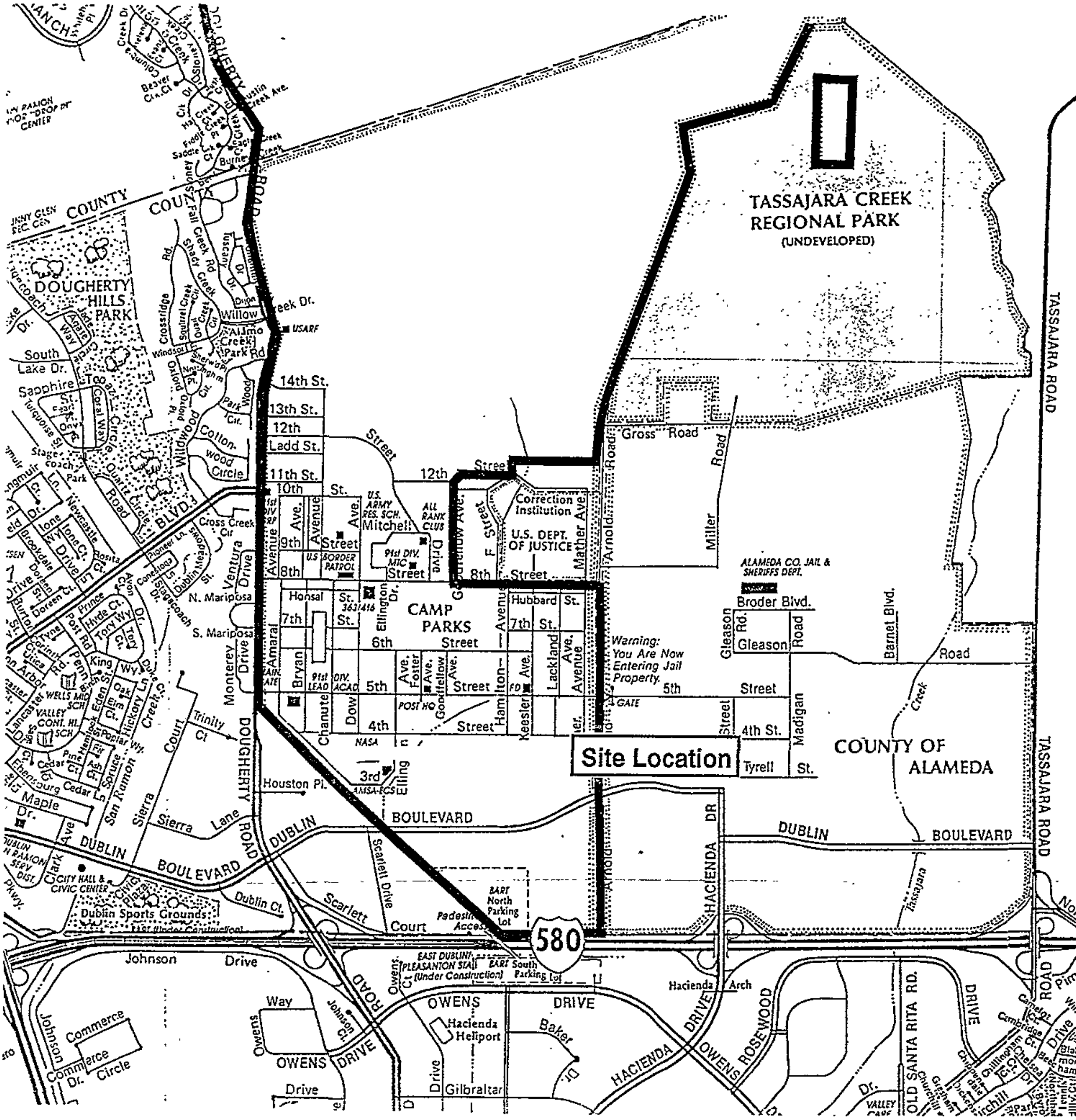
Table 2 Analytical Results of Soil Sample WO-1 Collected Below Waste Oil UST (8.5 feet bgs), July 2, 1996, POL Point Building 888, Parks RFTA, Dublin, California. All results are in mg/Kg (parts per million-ppm).

Volatile Halocarbons (1)	Extractable Organics (2)	Oil and Grease (3)	TPH as Diesel (4)	TPH as gasoline (4)	BTEX (5) Compounds	LUFT Metals (6)				
						Cadmium	Chromium	Lead	Nickel	Zinc
ND (8)	ND	28 (7)	<10 (9)	<0.05	ND	7.51	35.9	<10	38.4	48.7

Notes:

1) Volatile Halocarbons using EPA Method 8010
2) Acid/Base-Neutral Extractable Organics using EPA Method 8270B
3) Extractable Hydrocarbons (Oil and Grease) using SM 503E/5520F.
4) Total Petroleum Hydrocarbons (TPH) as diesel and as gasoline using modified EPA Method 8015.
5) Benzene, Toluene, Ethylbenzene, Xylenes (BTEX) using EPA Method 8020.
6) LUFT Metals using EPA Method 6010.
7) Shaded cells highlight concentrations detected at or above the analytical laboratory reporting limit.
8) ND = Not detected at or above analytical laboratory reporting limit for all analytes reported.
9) <10 = Not detected at or above analytical laboratory reporting limit.

FIGURES



LEGEND

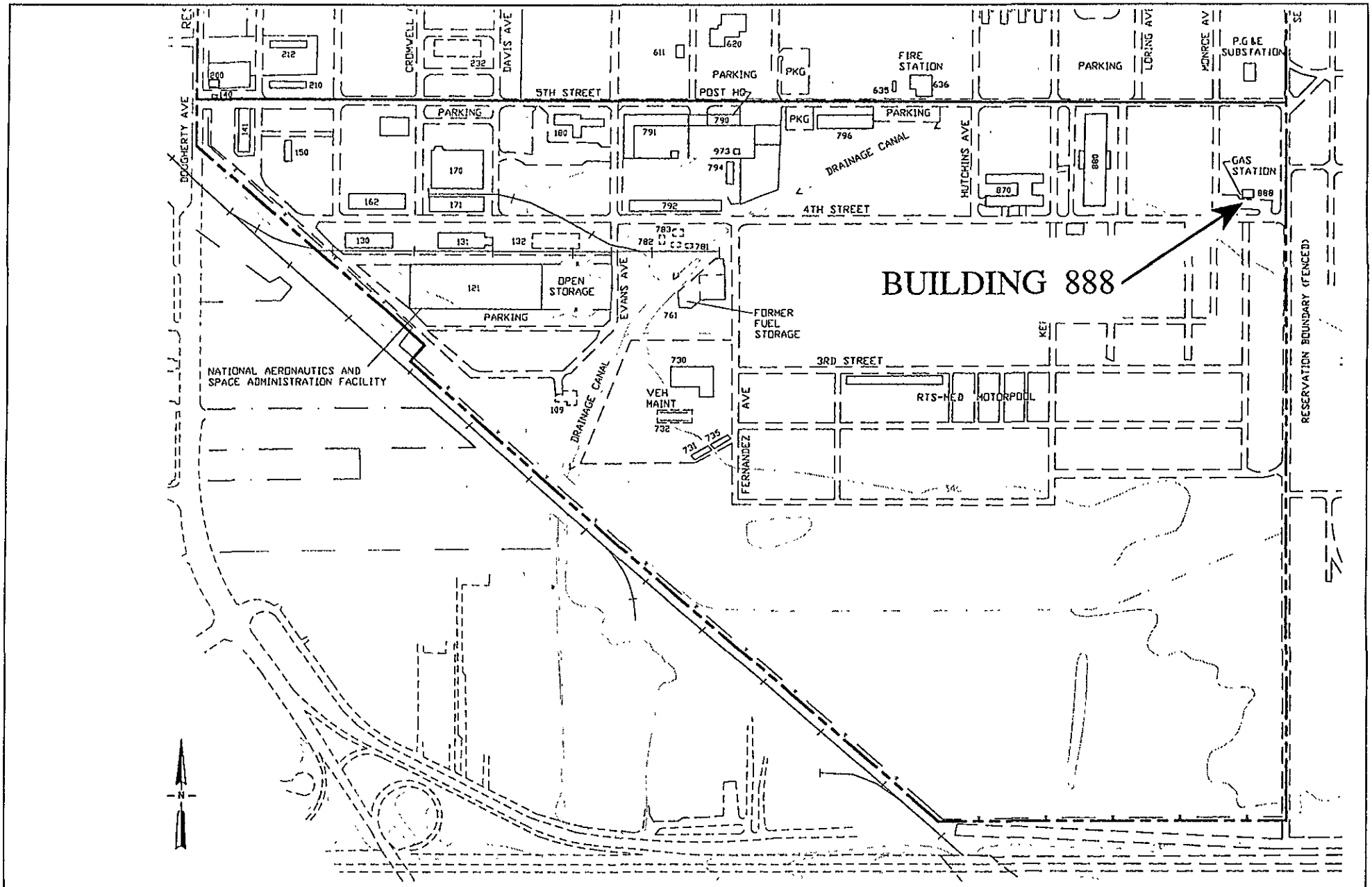
Facility Boundary

Source: Livermore/Pleasanton Area
Compass Maps Inc., 1993

N

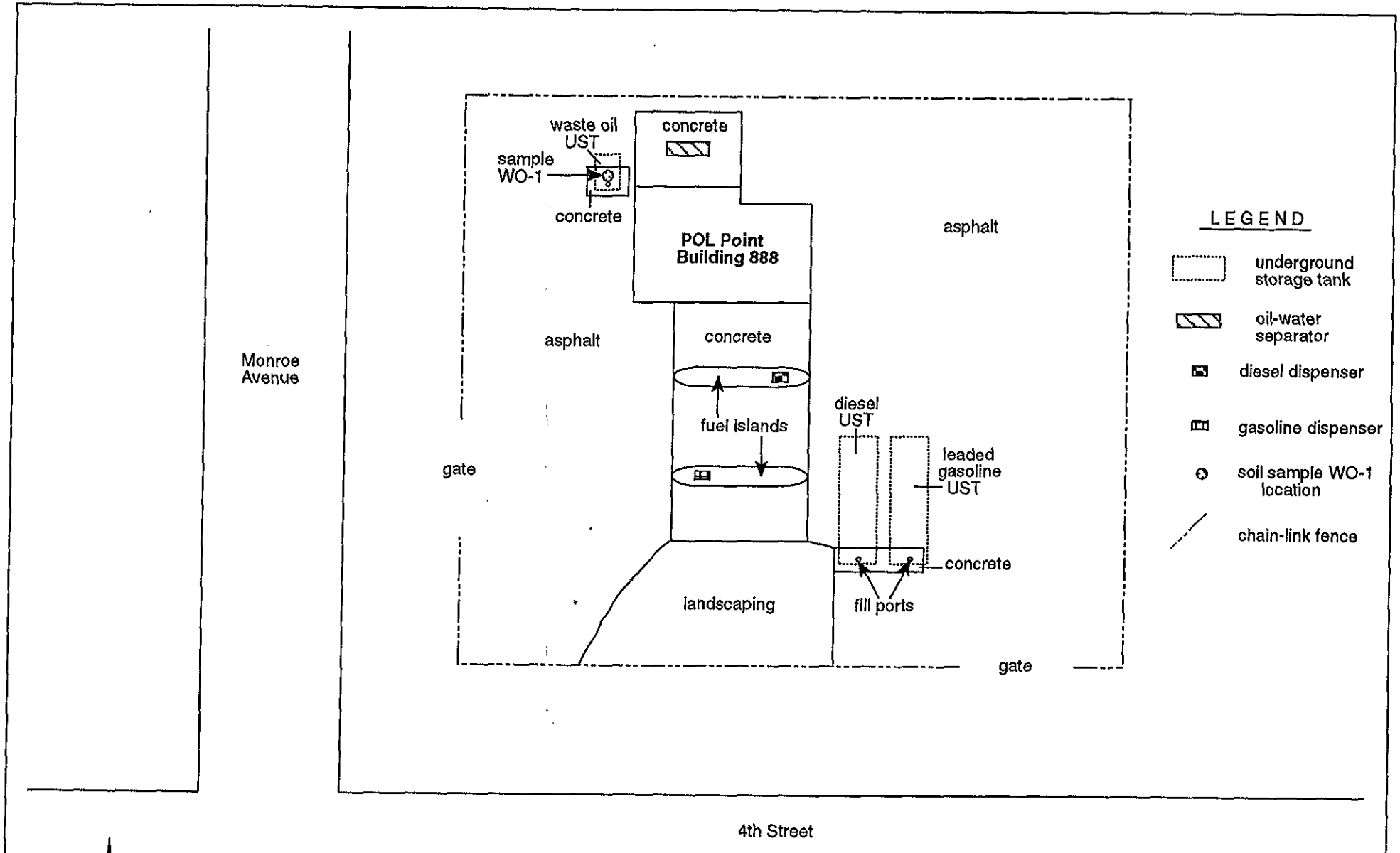
0 — 1
approximate scale
miles

Project No. ORHZ005	PRFTA/HAZWRAP	LOCATION MAP	Figure 1
Woodward-Clyde			

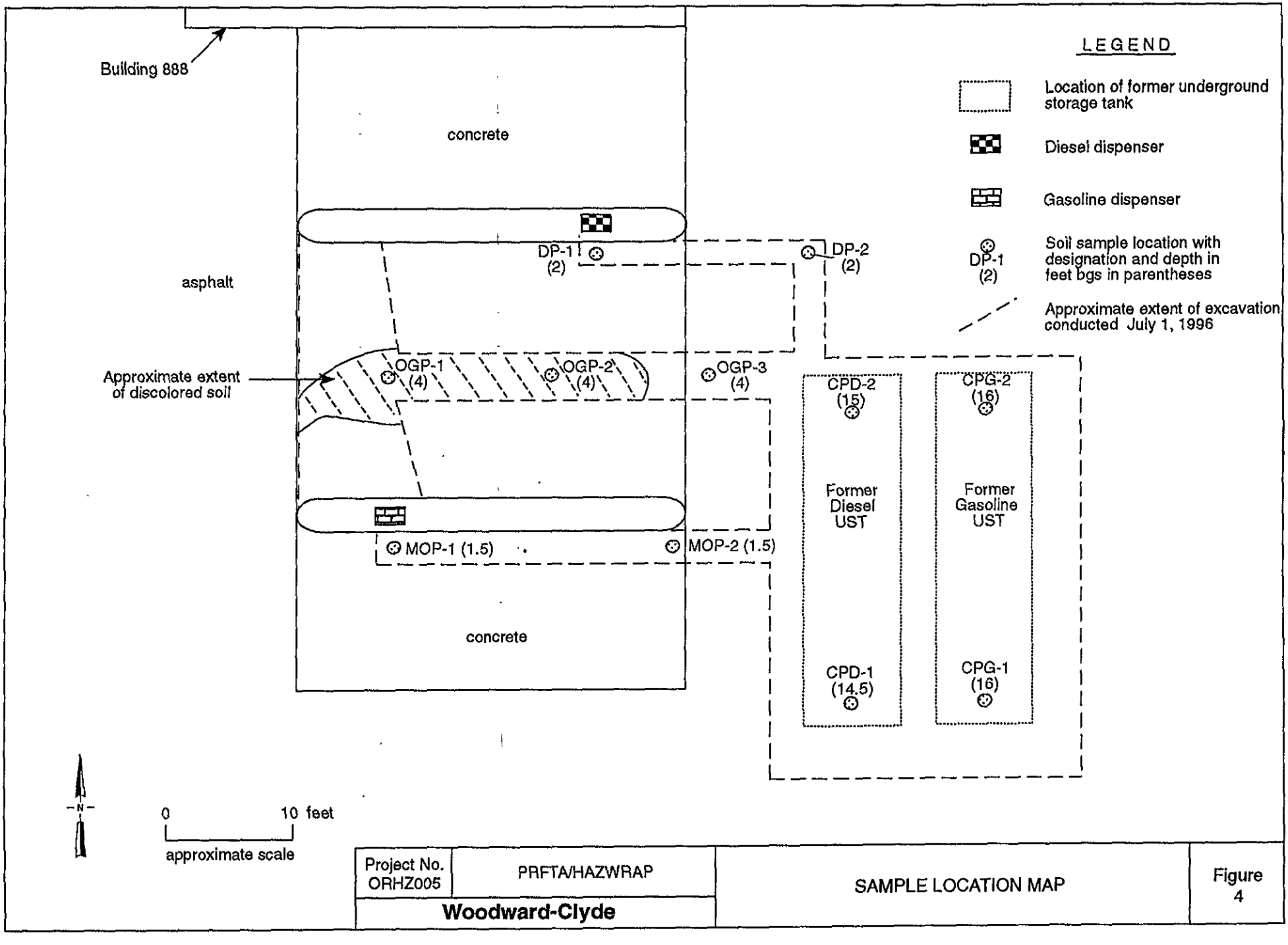


Project No. ORHZ005	PRFTA/HAZWRAP	SITE LOCATION MAP	Figure 2
Woodward-Clyde			

APPENDIX A
UST AND TANK RINSEATE MANIFESTS



Project No. ORHZ005	PRFTA/HAZWRAP	SITE PLAN MAP	Figure 3
Woodward-Clyde			



Project No. ORHZ005	PRFTA/HAZWRAP	SAMPLE LOCATION MAP	Figure 4
Woodward-Clyde			

UE UNIVERSAL ENVIRONMENTAL

1258

P.O. BOX 996, BENICIA, CA 94510, (707) 747-6699

NON-HAZARDOUS SPECIAL WASTE MANIFEST

GENERATOR

Generator Name I T Corp | Generating Location Camp Parks

Address Martinez CA | Address Dublin Ca

Phone No. | Phone No.

Description of Waste	Quantity	Units	Containers No.	Containers Type
WASTE OIL/WATER, [struck out], [struck out] Non-Haz waste containing oil per Connie Bradley (415 G.)	00700	G	01	T

Type: D - Drum, C - Carton, B - Bag, T - Truck, P - Pounds, Y - Yards, O - Other

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations.

Robert R. Decker | [signature] | 07 01 96

Generator Authorized Agent Name | Signature | Shipment Date

TRANSPORTER

Truck No. 1164 | Phone No. (707) 747 6699

Transporter Name Universal Environmental | Driver Name (Print) Glenn O. Olson

Address 1898 Park Rd. Benicia Ca | Vehicle License No./State CA CP2892

Vehicle Certification NA

I hereby certify that the above named material was picked up at the generator site listed above.

[signature] | 07 01 96

Driver Signature | Shipment Date

I hereby certify that the above named material was delivered without incident to the destination listed below.

[signature] | 07 01 96

Driver Signature | Delivery Date

DESTINATION

Site Name PRC Patterson | Phone No. 800-8744444

Address 12331 N. Hwy 33 Patterson Ca 95363

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

R.M. Arredondo | [signature] | 07 01 96

Name of Authorized Agent | Signature | Receipt Date

certificate number 0649

Certificate of Recycling

This is to certify that the non hazardous waste transported to the Enviropur West Corporation, PRC Patterson Inc. facility, Patterson, California on document number 1258 was recycled in accordance with the provisions of 40 CFR 261.6 and 40 CFR 264 pursuant to 40CFR 261.3(c) (2) and CCR Chapter 16 Articles 1-5

generator IT CORPORATION

address 4585 PACHECO BLVD.

MARTINEZ, CA. 94553

SITE: CAMP PARKS

by RON FERRARIO

signature Ron Ferrario

title COMPLIANCE MANAGER

ERICKSON Tank Processing JOB #: 76614
TANK CERTIFICATION

********** PART 1 - To be completed by the Customer **********

CUSTOMER: I.T. CORP. (CAMP PARKS)
GENERATOR: Parks RFTA
State Waste Codes: 512
LOCATION: DUBLIN, CA
EPA I.D.#: CAL000121364 04
EPA Waste Codes: ☒ None ☐ See Attached
TRANSPORTER: ERICKSON, INC
MANIFEST #: 95280703

	TANK 1	TANK 2	TANK 3	TANK 4	TANK 5	TANK 6
TANK #:	18202	18203	18204			
CAPACITY:	10 K	10 K	500			
DIAMETER:	8'	8'	4'			
LENGTH:	27'	27'	6'			
STEEL/GLASS:	S	S	S			
LAST CONTAINED:	D	UG	UO			

LG = Leaded Gas, UG = Unleaded Gas, D = Diesel, UO = Used Oil, FO = Fuel Oil
Specify the material Last Contained if other than above.

ERICKSON, INC. TANK PROCESSING FACILITY
LAND DISPOSAL RESTRICTION NOTIFICATION FORM

The waste represented on this manifest is not generated by a chemical manufacturing plant, coke-by-product recovery plant of petroleum refinery. As such, it is not regulated under 40 CFR Part 61, Subpart FF (NESHAPS for Benzene Operations).

X Pursuant to 40 CFR 268.7 I am notifying Erickson, Inc. that the material described by the above manifest is a nonwastewater, non-RCRA hazardous waste and not currently subject to EPA Land Disposal Restrictions.

X Pursuant to CCR 22 66268.7 I am notifying Erickson, Inc. that the material described by the manifest is a metal containing non-RCRA solid hazardous waste (66268.29(g)), and an organics containing Non-RCRA solid hazardous waste (66268.29 (k)). The treatment standards for these wastes have been repealed. This waste is no longer subject to land disposal restrictions.

I am an authorized agent/representative of the generator. I certify that all information submitted in this and associated documents is complete and accurate to the best of my knowledge. The tanks on the transport equipment have been numbered to correspond with the information provided above. In the event that the tanks do not correspond to the form, I will pay any and all costs incurred in rectifying the discrepancy(ies) between the tank(s) and the form. In the event that the tank(s) contain excessive solids or liquids, I agree to pay the cost of preparation, transportation and disposal/recycling of the excess material according to the schedule of charges in effect at the time of receipt of the tank(s). Further, I will not hold Erickson, Inc. responsible for any damage to tanks which occurs after the tanks are removed from the ground.

AUTHORIZED REPRESENTATIVE
SIGNATURE: [signature] DATE: 7/2/96
PRINT NAME: MARSHALL MARIK TITLE: ENV. MANAGER

For assistance in completing this form, please contact Karen Ruffin at (510) 970-7463.

Form Approved OMB No. 2050-0039 (Expires 9-30-96)
Please print or type. *Form designed for use on elite (12-pitch) typewriter.*

See Instructions on back of page 6.

Department of Toxic Substances Control
Sacramento, California

IN CASE OF EMERGENCY OR SPILL CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA, CALL 1-800-852-7550

UNIFORM HAZARDOUS WASTE MANIFEST

GENERATOR

1. Generator's US EPA ID No. CAL000121364
Manifest Document No. 80704
2. Page 1 of 1

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
PARKS RFTA
BLDG 790
DUBLIN CA 94568-5201

4. Generator's Phone ( ) 510-803-5638

A. State Manifest Document Number [illegible]
B. State Generator's ID [illegible]

5. Transporter 1 Company Name: Erickson Inc.
6. US EPA ID Number: CAD009466392

C. State Transporter's ID [illegible]
D. Transporter's Phone [illegible]

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

E. State Transporter's ID
F. Transporter's Phone

9. Designated Facility Name and Site Address
Erickson, Inc.
255 Parr Blvd.
Richmond, CA. 94801

10. US EPA ID Number: CAD009466392

G. State Facility's ID [illegible]
H. Facility's Phone [illegible]

11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste Number
a. NON-RCRA Hazardous Waste Solid Waste Empty Storage Tank.	002	TP	10000	P	State [illegible] EPA/Other [illegible]
b.					State / EPA/Other
c.					State / EPA/Other
d.					State / EPA/Other

J. Additional Descriptions for Materials Listed Above
[illegible] Tank(s) have been treated with 15 lbs Dry Ice Per 1000 Gallon Capacity.

K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
Keep away from sources of ignition. Always wear hardhats when working around U.G.S.T.'s 24 Hr. Contact Name. MARSHALL MARIK & Phone 510-803-5638 MM -5612

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name	Signature	Month	Day	Year
MARSHALL MARIK	[signature]	07	02	96

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
Steve Fleming	Steve Fleming	07	02	96

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

FACILITY

19. Discrepancy Indication Space

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

Printed/Typed Name	Signature	Month	Day	Year

DO NOT WRITE BELOW THIS LINE.

DTSC 8022A (1/95)
EPA 8700—22

Yellow: GENERATOR RETAINS

Form Approved OMB No. 2050-0039 (Expires 9-30-96)
Please print or type. Form designed for use on elite (12-pitch) typewriter.

Sacramento, California

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: CALD00121364
Manifest Document No.: 80703
2. Page 1 of 1

Information in the shaded areas is not required by Federal law.

A. State Manifest Document Number: 95780703

3. Generator's Name and Mailing Address
PARKS RFTA
BLDG 790
DUBLIN, CA 94568-5201

4. Generator's Phone ( ) 510-803-5639

B. State Generator's ID: [illegible]

5. Transporter 1 Company Name: TRIDENT TRUCK LINE
6. US EPA ID Number: CAD982484370 [illegible]

C. State Transporter's ID
D. Transporter's Phone [illegible]

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

E. State Transporter's ID
F. Transporter's Phone

9. Designated Facility Name and Site Address
Erickson, Inc.
255 Parr Blvd.
Richmond, CA. 94801

10. US EPA ID Number: CAD009466392

G. State Facility's ID
H. Facility's Phone [illegible]

11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste Number
a. NON-RCRA Hazardous Waste Solid Waste Empty Storage Tank.	001	TP	10000	P	State / EPA/Other
b.					State / EPA/Other
c.					State / EPA/Other
d.					State / EPA/Other

J. Additional Descriptions for Materials Listed Above
[illegible]

K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
Keep away from sources of ignition. Always wear hardhats when working around U.G.S.T.'s 24 Hr. Contact Name: MARSHALL MARIK & Phone 510-803-5612

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name	Signature	Month	Day	Year
MARSHALL MARIK	[signature]	07	02	96

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
Roger Dayton	[signature]	07	02	96

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

19. Discrepancy Indication Space

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

Printed/Typed Name	Signature	Month	Day	Year

GENERATOR / TRANSPORTER / FACILITY

IN CASE OF [redacted] GEN [redacted] R SP [redacted] CALL [redacted] NATIONAL RESPONSE [redacted] TER [redacted] 42 [redacted] 2: W [redacted] IN C [redacted] RNIA [redacted] LL [redacted] 852

95780703

DO NOT WRITE BELOW THIS LINE.

DTSC 8022A (1/95)
EPA 8700—22

Yellow: GENERATOR RETAINS

APPENDIX B
ANALYTICAL LABORATORY REPORTS

Inchcape Testing Services
Environmental Laboratories

1089 E. Collins Blvd.
Richardson, TX 75081
Tel. 214-238-5591
Fax. 214-238-5592

CUSTOMER: WOODWARD CLYDE CONSULTANTS
PROJECT: ORHZ005-0002

REPORT NUMBER: D96-7327
SAMPLES RECEIVED: 3-July-1996

Inchcape Testing Services
Environmental Laboratories

1089 E. Collins Blvd.
Richardson, TX 75081
Tel. 214-238-5591
Fax. 214-238-5592

TABLE OF CONTENTS
(D96-7327)

SDG NARRATIVE

Inchcape Testing Services
Environmental Laboratories

DATE RECEIVED: 3-JUL-1996

REPORT NUMBER: D96-7327
REPORT DATE: 17-JUL-1996

SAMPLE SUBMITTED BY : Woodward-Clyde Consultants
ADDRESS : 10370 Old Placerville Rd. #104
Sacramento, CA 95827
ATTENTION : Mr. Bill Loskutoff
DATE SAMPLED : 2-July-1996

SAMPLE NUMBERS : WO-1, CPD-1, CPD-2, CPG-1, CPG-2, MOP-1, MOP-2, DP-1, DP-2, OGP-1, OGP-2, OGP-3, DSTP-1, GPSTP-1, GPSTP-2, Trip Blank

SDG NUMBER: D96-7327
CONTRACT NUMBER: N/A

SDG NARRATIVE

This is a Level IV data package, containing CLP and CLP-like forms for the analysis of organic and inorganic parameters by EPA methodologies.

EPA Method 8270 Semivolatile Organics Analysis

Calibration

For the continuing calibration of instrument ITS3, the following compounds were outside of the QC warning limits of ≤20%:

ITS4 07/02/96 09:11
N-nitrosodi-n-propylamine (21.2%)
3,3'-dichlorobenzidine (23.1%)
indeno(1,2,3-cd)pyrene (38.3%)
dibenz(a,h)anthracene (36.6%)
benzo(g,h,i)perylene (43.9%)
m,p-cresol (45.7%)

Since all calibration check compounds (CCCs) were within the QC control limit of <30%, the calibration was accepted.

EPA Method 8010 Volatile Halocarbons Analysis

No observations were made concerning the analysis for volatile halocarbons.

EPA Method 8020 Volatile Aromatics Analysis

Sample Dilutions

Samples D96-7327-2 and -11 required 1:50 dilutions, due to high levels of target analytes. Similarly, sample D96-7327-8 required a 1:5 dilution. All surrogate recoveries were within QC limits for this dilution.

Internal Standard Areas

In the original analyses of samples D96-7327-3, -7 and -14, the areas of the internal standard fluorobenzene were outside of QC limits, due to matrix interference. The samples were reanalyzed with similar results, verifying the matrix interference. Therefore, the results of the original analyses were accepted, and are reported in this data package.

Surrogate Recoveries

For soil sample D96-7327-3, the recovery of the surrogate bromofluorobenzene was outside of QC limits. Therefore, the sample was reanalyzed, yielding a surrogate recovery within QC limits. The results of the second analysis were accepted, and are included in this data package.

Matrix Spike Analysis

Since the soil samples were analyzed over two days, two QC sets of method blank, matrix spike/matrix spike duplicate and blank spike/blank spike duplicate were analyzed. For both QC sets, the spiked sample was sample D96-7327-1, and the unspiked sample was analyzed for both sets, yielding set sets of results for sample D96-7327-1. Both sets of results are included in this data package.

EPA Method 8015 mod. Total Volatile Petroleum Hydrocarbons Analysis

Sample Dilutions

Samples D96-7327-8 and -10 required 1:25 dilutions, due to high levels of target analytes. Similarly, sample D96-7327-11 required a 1:500 dilution. All surrogate recoveries were within QC limits for this dilution.

Internal Standard Areas

In the original analysis of samples D96-7327-7, the area of the internal standard fluorobenzene was outside of QC limits, due to matrix interference. The sample was reanalyzed with similar results, verifying the matrix interference. Therefore, the results of the original analysis were accepted, and are reported in this data package.

Matrix Spike Analysis

Since the soil samples were analyzed over two days, two QC sets of method blank, matrix spike/matrix spike duplicate and blank spike/blank spike duplicate were analyzed. For both QC sets, the spiked sample was sample D96-7327-1, and the unspiked sample was analyzed for both sets, yielding set sets of results for sample D96-7327-1. Both sets of results are included in this data package.

EPA Method 8015 mod. Total Extractable Petroleum Hydrocarbons Analysis

Surrogate Recoveries

For the original analysis of sample D96-7327-2, the recovery of the surrogate triacontane was outside of QC limits. Therefore, the sample was re-extracted and reanalyzed within holding time, yielding surrogate recovery within QC limits. The results of the reanalysis are reported in this data package.

Sample Dilutions

Samples D96-7327-2 and -8 required 1:10 dilutions, due to high levels of target analytes. The recoveries of the surrogate triacontane were within QC limits for this dilution.

Metals Analysis

Sample Duplicate Analysis

In the sample duplicate analysis of sample D96-7327-1 by ICP, the relative percent differences were not considered for cadmium and lead, because the levels of these elements were less than five times the contract required detection limit (5xCRDL.)

ICP Serial Dilutions

Since the matrix spike/matrix spike duplicate analyses were within QC limits for all ICP metals, an ICP serial dilution analysis was not conducted.

General Chemistry Parameters

No problems were encountered during the analysis of hexavalent chromium.

No further issues were encountered during the sample analysis for this task.

Please refer to the attached Case Narrative Summary for sample identifications and analytical requests.

If there are any questions, feel free to contact Mr. John (J.T.) Todd, at (214) 238-5591.

Alan Humason
QA Coordinator

Inchcape Testing Services
Environmental Laboratories

1089 E. Collins Blvd.
Richardson, TX 75081
Tel. 214-238-5591
Fax. 214-238-5592

JOB ID : D96-7327
CUSTOMER : Woodward-Clyde Consultants
PROJECT : ORHZ005-0002

SAMPLE ID : D96-7327-1 DATE SAMPLED : 2-JUL-1996
ID MARKS : WO-1

ANALYSIS	PRP	PRP DATE	ANL	ANL DATE	QC BATCH NUMBER
8010_S /1			JCH	9-JUL-1996	4-070996
8270_ABN_S /1	PSS	8-JUL-1996	WSW	9-JUL-1996	AB815-22
ABN_TIC /1			WSW	9-JUL-1996	AB815-22
BTX_8020US /1			MKS	10-JUL-1996	27-070996A
M_CD_T_S_I /1	HMR	10-JUL-1996	GGD	10-JUL-1996	14016
M_CR_T_S_I /1	HMR	10-JUL-1996	LSS	12-JUL-1996	14016
M_NI_T_S_I /1	HMR	10-JUL-1996	LSS	12-JUL-1996	14016
M_PB_T_S_I /1	HMR	10-JUL-1996	GGD	10-JUL-1996	14016
M_ZN_T_S_I /1	HMR	10-JUL-1996	GGD	10-JUL-1996	14016
OG_503E_S /1	PSS	10-JUL-1996	MTR	11-JUL-1996	AB815-49
SOLID_TPER /1			SAB	15-JUL-1996	804022F
TPH_8015ES /1	PSS	8-JUL-1996	T_L	10-JUL-1996	AB815-23
TPH_8015_S /1			MKS	10-JUL-1996	28-070996A

SAMPLE ID : D96-7327-2 DATE SAMPLED : 2-JUL-1996
ID MARKS : CPD-1

ANALYSIS	PRP	PRP DATE	ANL	ANL DATE	QC BATCH NUMBER
BTX_8020US /1			MKS	10-JUL-1996	27-070996A
SOLID_TPER /1			SAB	15-JUL-1996	804022F
TPH_8015ES /1	PSS	8-JUL-1996	VHL	15-JUL-1996	AB815-23

SAMPLE ID : D96-7327-3 DATE SAMPLED : 2-JUL-1996
ID MARKS : CPD-2

ANALYSIS	PRP	PRP DATE	ANL	ANL DATE	QC BATCH NUMBER
BTX_8020US /1			MKS	10-JUL-1996	27-070996A

Inchcape Testing Services
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Tel. 214-238-5591
Fax. 214-238-5592

SAMPLE ID : D96-7327-3 DATE SAMPLED : 2-JUL-1996
ID MARKS : CPD-2

ANALYSIS	PRP	PRP DATE	ANL	ANL DATE	QC BATCH NUMBER
SOLID_TPER /1			SAB	15-JUL-1996	804022F
TPH_8015ES /1	PSS	8-JUL-1996	T_L	10-JUL-1996	AB815-23

SAMPLE ID : D96-7327-4 DATE SAMPLED : 2-JUL-1996
ID MARKS : CPG-1

ANALYSIS	PRP	PRP DATE	ANL	ANL DATE	QC BATCH NUMBER
BTX_8020US /1			MKS	10-JUL-1996	27-070996A
SOLID_TPER /1			SAB	15-JUL-1996	804022F
TPH_8015ES /1	PSS	8-JUL-1996	T_L	10-JUL-1996	AB815-23
TPH_8015_S /1			MKS	10-JUL-1996	28-070996A

SAMPLE ID : D96-7327-5 DATE SAMPLED : 2-JUL-1996
ID MARKS : CPG-2

ANALYSIS	PRP	PRP DATE	ANL	ANL DATE	QC BATCH NUMBER
BTX_8020US /1			MKS	10-JUL-1996	27-070996A
SOLID_TPER /1			SAB	15-JUL-1996	804023G
TPH_8015ES /1	PSS	8-JUL-1996	T_L	10-JUL-1996	AB815-23
TPH_8015_S /1			MKS	10-JUL-1996	28-070996A

SAMPLE ID : D96-7327-6 DATE SAMPLED : 2-JUL-1996
ID MARKS : MOP-1

ANALYSIS	PRP	PRP DATE	ANL	ANL DATE	QC BATCH NUMBER
BTX_8020US /1			MKS	10-JUL-1996	27-070996A
M_PB_T_S_F /1	HMR	10-JUL-1996	AH	11-JUL-1996	14016F
SOLID_TPER /1			SAB	15-JUL-1996	804023G
TPH_8015ES /1	PSS	8-JUL-1996	T_L	10-JUL-1996	AB815-23
TPH_8015_S /1			MKS	10-JUL-1996	28-070996A

Inchcape Testing Services
Environmental Laboratories

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JOB ID : D96-7327
CUSTOMER : Woodward-Clyde Consultants
PROJECT : ORHZ005-0002

SAMPLE ID : D96-7327-7 DATE SAMPLED : 2-JUL-1996
ID MARKS : MOP-2

ANALYSIS	PRP	PRP DATE	ANL	ANL DATE	QC BATCH NUMBER
BTX_8020US /1			MKS	10-JUL-1996	27-070996A
M_PB_T_S_F /1	CEL	10-JUL-1996	AH	11-JUL-1996	14016F
SOLID_TPER /1			SAB	15-JUL-1996	804023G
TPH_8015ES /1	PSS	8-JUL-1996	T_L	10-JUL-1996	AB815-23
TPH_8015_S /1			MKS	10-JUL-1996	28-070996A

SAMPLE ID : D96-7327-8 DATE SAMPLED : 2-JUL-1996
ID MARKS : DP-1

ANALYSIS	PRP	PRP DATE	ANL	ANL DATE	QC BATCH NUMBER
BTX_8020US /1			MKS	11-JUL-1996	27-071096
M_PB_T_S_F /1	CEL	10-JUL-1996	AH	11-JUL-1996	14016F
SOLID_TPER /1			SAB	15-JUL-1996	804023G
TPH_8015ES /1	PSS	8-JUL-1996	VHL	11-JUL-1996	AB815-23
TPH_8015_S /1			MKS	10-JUL-1996	28-070996A

SAMPLE ID : D96-7327-9 DATE SAMPLED : 2-JUL-1996
ID MARKS : DP-2

ANALYSIS	PRP	PRP DATE	ANL	ANL DATE	QC BATCH NUMBER
BTX_8020US /1			MKS	10-JUL-1996	27-070996A
M_PB_T_S_F /1	CEL	10-JUL-1996	AH	11-JUL-1996	14016F
SOLID_TPER /1			SAB	15-JUL-1996	804023G
TPH_8015ES /1	PSS	8-JUL-1996	T_L	10-JUL-1996	AB815-23
TPH_8015_S /1			MKS	10-JUL-1996	28-070996A

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Fax. 214-238-5592

JOB ID : D96-7327
CUSTOMER : Woodward-Clyde Consultants
PROJECT : ORHZ005-0002

SAMPLE ID : D96-7327-10 DATE SAMPLED : 2-JUL-1996
ID MARKS : OGP-1

ANALYSIS	PRP	PRP DATE	ANL	ANL DATE	QC BATCH NUMBER
BTX_8020US /1			MKS	10-JUL-1996	27-070996A
M_PB_T_S_F /1	CEL	10-JUL-1996	AH	11-JUL-1996	14016F
SOLID_TPER /1			SAB	15-JUL-1996	804023G
TPH_8015ES /1	PSS	8-JUL-1996	T_L	10-JUL-1996	AB815-23
TPH_8015_S /1			MKS	10-JUL-1996	28-070996A

SAMPLE ID : D96-7327-11 DATE SAMPLED : 2-JUL-1996
ID MARKS : OGP-2

ANALYSIS	PRP	PRP DATE	ANL	ANL DATE	QC BATCH NUMBER
BTX_8020US /1			MKS	10-JUL-1996	27-070996A
M_PB_T_S_F /1	HMR	10-JUL-1996	AH	11-JUL-1996	14016F
SOLID_TPER /1			SAB	15-JUL-1996	804023G
TPH_8015ES /1	PSS	8-JUL-1996	T_L	10-JUL-1996	AB815-23
TPH_8015_S /1			MKS	11-JUL-1996	28-071096

SAMPLE ID : D96-7327-12 DATE SAMPLED : 2-JUL-1996
ID MARKS : OGP-3

ANALYSIS	PRP	PRP DATE	ANL	ANL DATE	QC BATCH NUMBER
BTX_8020US /1			MKS	10-JUL-1996	27-070996A
M_PB_T_S_F /1	CEL	10-JUL-1996	AH	11-JUL-1996	14016F
SOLID_TPER /1			SAB	15-JUL-1996	804023G
TPH_8015ES /1	PSS	9-JUL-1996	VHL	11-JUL-1996	AB815-38
TPH_8015_S /1			MKS	10-JUL-1996	28-070996A

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JOB ID : D96-7327
CUSTOMER : Woodward-Clyde Consultants
PROJECT : ORHZ005-0002

SAMPLE ID : D96-7327-13 DATE SAMPLED : 2-JUL-1996
ID MARKS : DSTP-1

ANALYSIS	PRP	PRP DATE	ANL	ANL DATE	QC BATCH NUMBER
BTX_8020US /1			MKS	10-JUL-1996	27-070996A
SOLID_TPER /1			SAB	15-JUL-1996	804023G
TPH_8015ES /1	PSS	9-JUL-1996	VHL	11-JUL-1996	AB815-38

SAMPLE ID : D96-7327-14 DATE SAMPLED : 2-JUL-1996
ID MARKS : GPSTP-1

ANALYSIS	PRP	PRP DATE	ANL	ANL DATE	QC BATCH NUMBER
BTX_8020US /1			MKS	10-JUL-1996	27-070996A
M_PB_T_S_F /1	CEL	10-JUL-1996	AH	11-JUL-1996	14016F
SOLID_TPER /1			SAB	15-JUL-1996	804023G
TPH_8015ES /1	PSS	9-JUL-1996	VHL	11-JUL-1996	AB815-38
TPH_8015_S /1			MKS	10-JUL-1996	28-070996A

SAMPLE ID : D96-7327-15 DATE SAMPLED : 2-JUL-1996
ID MARKS : GPSTP-2

ANALYSIS	PRP	PRP DATE	ANL	ANL DATE	QC BATCH NUMBER
BTX_8020US /1			MKS	10-JUL-1996	27-070996A
M_PB_T_S_F /1	CEL	10-JUL-1996	AH	11-JUL-1996	14016F
SOLID_TPER /1			SAB	15-JUL-1996	804024H
TPH_8015ES /1	PSS	9-JUL-1996	VHL	11-JUL-1996	AB815-38
TPH_8015_S /1			MKS	10-JUL-1996	28-070996A

SAMPLE ID : D96-7327-16 DATE SAMPLED : 2-JUL-1996
ID MARKS : Trip Blank

ANALYSIS	PRP	PRP DATE	ANL	ANL DATE	QC BATCH NUMBER
BTX_8020UL /1			VHT	9-JUL-1996	30-070996

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JOB ID : D96-7327
CUSTOMER : Woodward-Clyde Consultants
PROJECT : ORHZ005-0002

SAMPLE ID : D96-7327-17 DATE SAMPLED : 2-JUL-1996
ID MARKS : Method Blank

ANALYSIS	PRP	PRP DATE	ANL	ANL DATE	QC BATCH NUMBER
8010_S /1			JCH	9-JUL-1996	4-070996
8270_ABN_S /1	PSS	8-JUL-1996	WSW	9-JUL-1996	AB815-22
ABN_TIC /1			WSW	9-JUL-1996	AB815-22
BTX_8020US /1			MKS	10-JUL-1996	27-070996A
BTX_8020US /2			MKS	11-JUL-1996	27-071096
M_CD_T_S_I /1	HMR	10-JUL-1996	GGD	10-JUL-1996	14016
M_CR_T_S_I /1	HMR	10-JUL-1996	LSS	12-JUL-1996	14016
M_NI_T_S_I /1	HMR	10-JUL-1996	LSS	12-JUL-1996	14016
M_PB_T_S_I /1	HMR	10-JUL-1996	GGD	10-JUL-1996	14016
M_ZN_T_S_I /1	HMR	10-JUL-1996	GGD	10-JUL-1996	14016
OG_503E_S /1	PSS	10-JUL-1996	MTR	11-JUL-1996	AB815-49
TPH_8015ES /1	PSS	9-JUL-1996	VHL	11-JUL-1996	AB815-38
TPH_8015ES /2	PSS	8-JUL-1996	VHL	9-JUL-1996	AB815-23
TPH_8015_S /1			MKS	10-JUL-1996	28-070996A
TPH_8015_S /2			MKS	11-JUL-1996	28-071096

SAMPLE ID : D96-7327-18 DATE SAMPLED : 2-JUL-1996
ID MARKS : MS WO-1

ANALYSIS	PRP	PRP DATE	ANL	ANL DATE	QC BATCH NUMBER
8010_S /1			JCH	9-JUL-1966	4-070996#7327-1
8270_ABN_S /1	PSS	8-JUL-1996	WSW	9-JUL-1996	AB815-22
BTX_8020US /1			MKS	10-JUL-1996	27-070996A
BTX_8020US /2			MKS	11-JUL-1996	27-071096
M_CD_T_S_I /1	HMR	10-JUL-1996	GGD	10-JUL-1996	14016

Inchcape Testing Services
Environmental Laboratories

1089 E. Collins Blvd.
Richardson, TX 75081
Tel. 214-238-5591
Fax. 214-238-5592

SAMPLE ID : D96-7327-18 DATE SAMPLED : 2-JUL-1996
ID MARKS : MS WO-1

ANALYSIS	PRP	PRP DATE	ANL	ANL DATE	QC BATCH NUMBER
M_CR_T_S_I /1	HMR	10-JUL-1996	GGD	10-JUL-1996	14016
M_NI_T_S_I /1	HMR	10-JUL-1996	LSS	12-JUL-1996	14016
M_PB_T_S_I /1	HMR	10-JUL-1996	GGD	10-JUL-1996	14016
M_ZN_T_S_I /1	HMR	10-JUL-1996	GGD	10-JUL-1996	14016
OG_503E_S /1	PSS	10-JUL-1996	MTR	11-JUL-1996	AB815-49
TPH_8015ES /1	PSS	9-JUL-1996	VHL	9-JUL-1996	AB815-38
TPH_8015_S /1			MKS	10-JUL-1996	28-070996A
TPH_8015_S /2			MKS	11-JUL-1996	28-071096

SAMPLE ID : D96-7327-19 DATE SAMPLED : 2-JUL-1996
ID MARKS : MSD WO-1

ANALYSIS	PRP	PRP DATE	ANL	ANL DATE	QC BATCH NUMBER
8010_S /1			JCH	9-JUL-1996	4-070996
8270_ABN_S /1	PSS	8-JUL-1996	WSW	9-JUL-1996	AB815-22
BTX_8020US /1			MKS	10-JUL-1996	27-070996A
BTX_8020US /2			MKS	11-JUL-1996	27-071096
M_CD_T_S_I /1	HMR	10-JUL-1996	GGD	10-JUL-1996	14016
M_CR_T_S_I /1	HMR	10-JUL-1996	LSS	12-JUL-1996	14016
M_NI_T_S_I /1	HMR	10-JUL-1996	LSS	12-JUL-1996	14016
M_PB_T_S_I /1	HMR	10-JUL-1996	GGD	10-JUL-1996	14016
M_ZN_T_S_I /1	HMR	10-JUL-1996	GGD	10-JUL-1996	14016
OG_503E_S /1	PSS	10-JUL-1996	MTR	11-JUL-1996	AB815-49
TPH_8015ES /1	PSS	9-JUL-1996	VHL	9-JUL-1996	AB815-38
TPH_8015_S /1			MKS	10-JUL-1996	28-070996A
TPH_8015_S /2			MKS	11-JUL-1996	28-071096

11

Inchcape Testing Services
Environmental Laboratories

1089 E. Collins Blvd.
Richardson, TX 75081
Tel. 214-238-5591
Fax. 214-238-5592

JOB ID : D96-7327
CUSTOMER : Woodward-Clyde Consultants
PROJECT : ORHZ005-0002

SAMPLE ID : D96-7327-20 DATE SAMPLED : 2-JUL-1996
ID MARKS : LCS

ANALYSIS	PRP	PRP DATE	ANL	ANL DATE	QC BATCH NUMBER
8010_S /1			JCH	9-JUL-1996	4-070996
8270_ABN_S /1	PSS	8-JUL-1996	WSW	9-JUL-1996	AB815-22
BTX_8020US /1			MKS	10-JUL-1996	27-070996A
BTX_8020US /2			MKS	10-JUL-1996	27-071096
M_CD_T_S_I /1	HMR	10-JUL-1996	GGD	10-JUL-1996	14016
M_CR_T_S_I /1	HMR	10-JUL-1996	LSS	12-JUL-1996	14016
M_NI_T_S_I /1	HMR	10-JUL-1996	LSS	12-JUL-1996	14016
M_PB_T_S_I /1	HMR	10-JUL-1996	GGD	10-JUL-1996	14016
M_ZN_T_S_I /1	HMR	10-JUL-1996	GGD	10-JUL-1996	14016
OG_503E_S /1	PSS	10-JUL-1996	MTR	11-JUL-1996	AB815-49
TPH_8015ES /1	PSS	9-JUL-1996	VHL	9-JUL-1996	AB815-38
TPH_8015_S /1			MKS	10-JUL-1996	28-070996A
TPH_8015_S /2			MKS	10-JUL-1996	28-071096

SAMPLE ID : D96-7327-22 DATE SAMPLED : 2-JUL-1996
ID MARKS : MS MOP-1

ANALYSIS	PRP	PRP DATE	ANL	ANL DATE	QC BATCH NUMBER
M_PB_T_S_F /1	CEL	10-JUL-1996	AH	11-JUL-1996	14016F

SAMPLE ID : D96-7327-23 DATE SAMPLED : 2-JUL-1996
ID MARKS : MSD MOP-2

ANALYSIS	PRP	PRP DATE	ANL	ANL DATE	QC BATCH NUMBER
M_PB_T_S_F /1	CEL	10-JUL-1996	AH	11-JUL-1996	14016F

Inchcape Testing Services
Environmental Laboratories

1089 E. Collins Blvd.
Richardson, TX 75081
Tel 214-238-5591
Fax. 214-238-5592

JOB ID : D96-7327
CUSTOMER : Woodward-Clyde Consultants
PROJECT : ORHZ005-0002

SAMPLE ID : D96-7327-24 DATE SAMPLED : 2-JUL-1996
ID MARKS : Method Blank

ANALYSIS	PRP	PRP DATE	ANL	ANL DATE	QC BATCH NUMBER
BTX_8020UL /1			VHT	9-JUL-1996	30-070996

SAMPLE ID : D96-7327-25 DATE SAMPLED : 2-JUL-1996
ID MARKS : MS

ANALYSIS	PRP	PRP DATE	ANL	ANL DATE	QC BATCH NUMBER
BTX_8020UL /1			VHT	9-JUL-1996	30-070996

SAMPLE ID : D96-7327-26 DATE SAMPLED : 2-JUL-1996
ID MARKS : MSD

ANALYSIS	PRP	PRP DATE	ANL	ANL DATE	QC BATCH NUMBER
BTX_8020UL /1			VHT	9-JUL-1996	30-070996

SAMPLE ID : D96-7327-27 DATE SAMPLED : 2-JUL-1996
ID MARKS : LCS

ANALYSIS	PRP	PRP DATE	ANL	ANL DATE	QC BATCH NUMBER
BTX_8020UL /1			VHT	9-JUL-1996	30-070996

Inchcape Testing Services
Environmental Laboratories

1089 E. Collins Blvd.
Richardson, TX 75081
Tel. 214-238-5591
Fax. 214-238-5592

JOB ID : D96-7327
CUSTOMER : Woodward-Clyde Consultants
PROJECT : ORHZ005-0002

ANALYSIS	DESCRIPTION
8010_S	Purgeable Halocarbons, Solid Matrix
8270_ABN_S	ABN, Full List, Solid
ABN_TIC	Tentatively Identified Compounds - ABN
BTX_8020US	BTEX, Solid in µg/Kg
M_CD_T_S_I	Cadmium, Total, Solid, by ICP
M_CR_T_S_I	Chromium, Total, Solid, by ICP
M_NI_T_S_I	Nickel, Total, Solid, by ICP
M_PB_T_S_I	Lead, Total, Solid, by ICP
M_ZN_T_S_I	Zinc, Total, Solid, by ICP
OG_503E_S	Hydrocarbons - SM 503E, Solid
SOLID_TPER	Total Solids, Soil/Sludge, %
TPH_8015ES	Extractable TPH by GC, Solid, as EPA 8015
TPH_8015_S	Volatile TPH by GC, Solid, µg/Kg
M_PB_T_S_F	Lead, Total, Solid, by GFAA
BTX_8020UL	BTEX, Liquid in µg/L

SEMIVOLATILES DATA

QUALITY CONTROL SUMMARY

FORM 2
SOIL SEMIVOLATILE SURROGATE RECOVERY

Lab Name: Contract: WOODWARD/CLYDE

Lab Code: Case No.: SAS No.: SDG No.: SV7327

Level: (low/med) LOW

	WOODWARD/CLY SAMPLE NO.	S1 #	S2 #	S3 #	S4 #	S5 #	S6 #	S7 #	S8 #	TOT OUT
01	BLANK	34	52	74	66	43	94			0
02	BLANK BS	70	70	84	92	72	114			0
03	BLANK BSD	68	67	79	90	70	115			0
04	7327-1 MS	67	50	64	93	72	103			0
05	7327-1 MSD	71	53	67	94	75	110			0
06	WO-1	67	51	59	84	69	89			0
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		QC LIMITS
S1	= Nitrobenzene-d5 (SS)	(23-120)
S2	= 2-Fluorobiphenyl (SS)	(30-115)
S3	= Terphenyl-d14 (SS)	(18-137)
S4	= Phenol-d6 (SS)	(24-113)
S5	= 2-Fluorophenol (SS)	(25-121)
S6	= 2,4,6-Tribromophenol (	(19-122)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

FORM 3
SOIL SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Contract: WOODWARD/CLYDE

Lab Code: Case No.: SAS No.: SDG No.: SV7327

Matrix Spike - WOODWARD/CL Sample No.: 7327 Level: (low/med) LOW

COMPOUND	SPIKE ADDED (mg/Kg)	SAMPLE CONCENTRATION (mg/Kg)	MS CONCENTRATION (mg/Kg)	MS % REC #	QC. LIMITS REC.
Phenol	3.33	0.000	3.21	96	5-112
2-Chlorophenol	3.33	0.000	2.85	86	23-134
1,4-Dichlorobenzene	3.33	0.000	2.92	88	20-124
N-Nitrosodi-n-propylami	3.33	0.000	4.27	128	10-230
1,2,4-Trichlorobenzene	3.33	0.000	3.02	91	44-142
4-Chloro-3-methylphenol	3.33	0.000	3.48	104	22-147
Acenaphthene	3.33	0.000	3.20	96	47-145
4-Nitrophenol	3.33	0.000	3.93	118	10-132
2,4-Dinitrotoluene	3.33	0.000	3.71	111	39-139
Pentachlorophenol	3.33	0.000	2.41	72	14-176
Pyrene	3.33	0.000	2.93	88	52-115

COMPOUND	SPIKE ADDED (mg/Kg)	MSD CONCENTRATION (mg/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Phenol	3.33	3.45	104	8	23	5-112
2-Chlorophenol	3.33	2.95	88	2	29	23-134
1,4-Dichlorobenzene	3.33	3.08	92	4	32	20-124
N-Nitrosodi-n-propylami	3.33	4.43	133	4	55	10-230
1,2,4-Trichlorobenzene	3.33	3.10	93	2	28	44-142
4-Chloro-3-methylphenol	3.33	3.65	110	6	37	22-147
Acenaphthene	3.33	3.34	100	4	28	47-145
4-Nitrophenol	3.33	3.93	118	0	47	10-132
2,4-Dinitrotoluene	3.33	3.98	120	8	22	39-139
Pentachlorophenol	3.33	2.55	76	5	49	14-176
Pyrene	3.33	3.03	91	3	25	52-115

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 11 outside limits
Spike Recovery: 0 out of 22 outside limits

COMMENTS: _____

FORM 3
SOIL SEMIVOLATILE BLANK SPIKE RECOVERY

Lab Name: Contract: WOODWARD/CLYDE

Lab Code: Case No.: SAS No.: SDG No.: SV7327

Matrix Spike - Sample No.: BLANK Level: (low/med) LOW

COMPOUND	SPIKE ADDED (mg/Kg)	BLANK CONCENTRATION (mg/Kg)	BS CONCENTRATION (mg/Kg)	BS % REC #	QC. LIMITS REC.
Phenol	3.33	0.000	3.33	100	5-112
2-Chlorophenol	3.33	0.000	2.97	89	23-134
1,4-Dichlorobenzene	3.33	0.000	3.01	90	20-124
N-Nitrosodi-n-propylami	3.33	0.000	4.31	129	10-230
1,2,4-Trichlorobenzene	3.33	0.000	3.17	95	44-142
4-Chloro-3-methylphenol	3.33	0.000	3.62	109	22-147
Acenaphthene	3.33	0.000	3.30	99	47-145
4-Nitrophenol	3.33	0.000	3.69	111	10-132
2,4-Dinitrotoluene	3.33	0.000	3.82	115	39-139
Pentachlorophenol	3.33	0.000	2.40	72	14-176
Pyrene	3.33	0.000	3.11	93	52-115

COMPOUND	SPIKE ADDED (mg/Kg)	BSD CONCENTRATION (mg/Kg)	BSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Phenol	3.33	3.41	102	2	23	5-112
2-Chlorophenol	3.33	2.96	89	0	29	23-134
1,4-Dichlorobenzene	3.33	3.03	91	1	32	20-124
N-Nitrosodi-n-propylami	3.33	4.32	130	1	55	10-230
1,2,4-Trichlorobenzene	3.33	3.12	94	1	28	44-142
4-Chloro-3-methylphenol	3.33	3.67	110	1	37	22-147
Acenaphthene	3.33	3.28	98	1	28	47-145
4-Nitrophenol	3.33	4.00	120	8	47	10-132
2,4-Dinitrotoluene	3.33	4.08	122	6	22	39-139
Pentachlorophenol	3.33	2.49	75	4	49	14-176
Pyrene	3.33	3.10	93	0	25	52-115

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 11 outside limits
Spike Recovery: 0 out of 22 outside limits

COMMENTS: _____

FORM 4
SEMIVOLATILE METHOD BLANK SUMMARY

WOODWARD/CLYDE SAMPLE NO.

BLANK

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: SV7327

Lab File ID: FC348 Lab Sample ID: 7327-17

Instrument ID: ITS3 Date Extracted: 07/08/96

Matrix: (soil/water) SOIL Date Analyzed: 07/09/96

Level: (low/med) LOW Time Analyzed: 1015

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	WOODWARD/CLY SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	BLANK BS	7327-20	FC349	07/09/96
02	BLANK BSD	BLANK BSD	FC350	07/09/96
03	7327-1 MS	7327-18	FC351	07/09/96
04	7327-1 MSD	7327-19	FC352	07/09/96
05	WO-1	7327-1	FC353	07/09/96
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COMMENTS:

FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: SV7327

Lab File ID: FB985 DFTPP Injection Date: 06/17/96

Instrument ID: ITS3 DFTPP Injection Time: 1006

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	46.1
68	Less than 2.0% of mass 69	0.3 (0.5)1
69	Mass 69 relative abundance	63.3
70	Less than 2.0% of mass 69	0.8 (1.3)1
127	40.0 - 60.0% of mass 198	53.6
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	7.0
275	10.0 - 30.0% of mass 198	17.5
365	Greater than 1.0% of mass 198	1.19
441	Present, but less than mass 443	3.4
442	40.0 - 110.0% of mass 198	47.0
443	17.0 - 23.0% of mass 442	9.0 (19.2)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD050	SSTD050	FB986	06/17/96	1023
02	SSTD160	SSTD160	FB987	06/17/96	1109
03	SSTD120	SSTD120	FB988	06/17/96	1411
04	SSTD080	SSTD080	FB989	06/17/96	1446
05	SSTD020	SSTD020	FB990	06/17/96	1521
06	ANLN160	ANLN160	FB991	06/17/96	1556
07	ANLN120	ANLN120	FB992	06/17/96	1631
08	ANLN080	ANLN080	FB993	06/17/96	1706
09	ANLN050	ANLN050	FB994	06/17/96	1741
10	ANLN020	ANLN020	FB995	06/17/96	1816
11	TCLP160 AB3	TCLP160 AB396	FB996	06/17/96	1851
12	TCLP120 AB3	TCLP120 AB396	FB997	06/17/96	1926
13	TCLP080 AB3	TCLP080 AB396	FB998	06/17/96	2000
14	TCLP050 AB3	TCLP050 AB396	FB999	06/17/96	2035
15	TCLP020 AB3	TCLP020 AB396	FC000	06/17/96	2110
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FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: SV7327

Lab File ID: FC343 DFTPP Injection Date: 07/09/96

Instrument ID: ITS3 DFTPP Injection Time: 0739

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	49.6
68	Less than 2.0% of mass 69	0.7 (1.0)1
69	Mass 69 relative abundance	65.2
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	40.0 - 60.0% of mass 198	55.6
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.3
275	10.0 - 30.0% of mass 198	19.3
365	Greater than 1.0% of mass 198	1.08
441	Present, but less than mass 443	7.9
442	40.0 - 110.0% of mass 198	56.6
443	17.0 - 23.0% of mass 442	10.8 (19.1)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD050 AB3	SSTD050 AB396	FC344	07/09/96	0755
02	ANLN050 AB3	ANLN050 AB396	FC345	07/09/96	0830
03	BLANK	7327-17	FC348	07/09/96	1015
04	BLANK BS	7327-20	FC349	07/09/96	1049
05	BLANK BSD	BLANK BSD	FC350	07/09/96	1124
06	7327-1 MS	7327-18	FC351	07/09/96	1159
07	7327-1 MSD	7327-19	FC352	07/09/96	1234
08	WO-1	7327-1	FC353	07/09/96	1309
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FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: SV7327

Lab File ID (Standard): FC344 Date Analyzed: 07/09/96

Instrument ID: ITS3 Time Analyzed: 0755

		IS1(DCB) AREA #	RT #	IS2(NPT) AREA #	RT #	IS3(ANT) AREA #	RT #
	12 HOUR STD	244609	5.91	861663	8.23	418594	11.77
	UPPER LIMIT	489218	6.41	1723326	8.73	837188	12.27
	LOWER LIMIT	122304	5.41	430832	7.73	209297	11.27
	CLIENT SAMPLE NO.						
01	BLANK	140547	5.90	532361	8.23	279142	11.77
02	BLANK BS	134520	5.90	520895	8.22	291056	11.77
03	BLANK BSD	150826	5.90	586217	8.22	334364	11.76
04	7327-1 MS	184861	5.90	724936	8.22	381907	11.76
05	7327-1 MSD	191083	5.90	745042	8.22	402190	11.76
06	7327-1	179253	5.90	648213	8.22	335273	11.76
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IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: SV7327

Lab File ID (Standard): FC344 Date Analyzed: 07/09/96

Instrument ID: ITS3 Time Analyzed: 0755

		IS4(PHN) AREA #	RT #	IS5(CRY) AREA #	RT #	IS6(PRY) AREA #	RT #
	12 HOUR STD	576572	14.83	507431	20.30	552055	23.09
	UPPER LIMIT	1153144	15.33	1014862	20.80	1104110	23.59
	LOWER LIMIT	288286	14.33	253716	19.80	276028	22.59
	CLIENT SAMPLE NO.						
01	BLANK	488220	14.83	396637	20.29	400429	23.08
02	BLANK BS	538341	14.83	397473	20.30	355469	23.09
03	BLANK BSD	646596	14.83	508300	20.30	492564	23.09
04	7327-1 MS	678515	14.83	525310	20.30	526257	23.08
05	7327-1 MSD	720999	14.84	584549	20.30	590002	23.09
06	7327-1	559616	14.82	488716	20.28	528313	23.07
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IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

SAMPLE DATA

FORM 1 WOODWARD/CLYDE SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

WO-1

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: SV7327

Matrix: (soil/water) SOIL Lab Sample ID: 7327-1

Sample wt/vol: 30.0 (g/mL) G Lab File ID: FC353

Level: (low/med) LOW Date Received: 07/03/96

% Moisture: 0 decanted: (Y/N) N Date Extracted:07/08/96

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/09/96

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG	Q
62-75-9	N-Nitrosodimethylamine	0.333	U
62-53-3	Aniline	0.333	U
108-95-2	Phenol	0.333	U
111-44-4	Bis(2-chloroethyl)ether	0.333	U
95-57-8	2-Chlorophenol	0.333	U
541-73-1	1,3-Dichlorobenzene	0.333	U
106-46-7	1,4-Dichlorobenzene	0.333	U
100-51-6	Benzyl alcohol	0.333	U
95-50-1	1,2-Dichlorobenzene	0.333	U
95-48-7	2-Methylphenol	0.333	U
39638-32-9	Bis(2-chloroisopropyl)ether	0.333	U
106-44-5	4-Methylphenol	0.333	U
621-64-7	N-Nitrosodi-n-propylamine	0.333	U
67-72-1	Hexachloroethane	0.333	U
98-95-3	Nitrobenzene	0.333	U
78-59-1	Isophorone	0.333	U
88-75-5	2-Nitrophenol	0.333	U
105-67-9	2,4-Dimethylphenol	0.300	U
111-91-1	Bis(2-chloroethoxy)methane	0.700	U
65-85-0	Benzoic acid	1.60	U
120-83-2	2,4-Dichlorophenol	0.300	U
120-82-1	1,2,4-Trichlorobenzene	0.700	U
91-20-3	Naphthalene	0.700	U
106-47-8	4-Chloroaniline	1.30	U
87-68-3	Hexachlorobutadiene	0.700	U
59-50-7	4-Chloro-3-methylphenol	1.30	U
91-57-6	2-Methylnaphthalene	0.700	U
77-47-4	Hexachlorocyclopentadiene	0.700	U
88-06-2	2,4,6-Trichlorophenol	0.700	U
95-95-4	2,4,5-Trichlorophenol	3.30	U
91-58-7	2-Chloronaphthalene	0.700	U
88-74-4	2-Nitroaniline	3.30	U
131-11-3	Dimethylphthalate	0.700	U

FORM 1 WOODWARD/CLYDE SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

WO-1

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: SV7327

Matrix: (soil/water) SOIL Lab Sample ID: 7327-1

Sample wt/vol: 30.0 (g/mL) G Lab File ID: FC353

Level: (low/med) LOW Date Received: 07/03/96

% Moisture: 0 decanted: (Y/N) N Date Extracted: 07/08/96

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/09/96

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG	Q
208-96-8	Acenaphthylene	0.700	U
606-20-2	2,6-Dinitrotoluene	0.700	U
99-09-2	3-Nitroaniline	3.30	U
83-32-9	Acenaphthene	0.700	U
51-28-5	2,4-Dinitrophenol	3.30	U
132-64-9	Dibenzofuran	0.700	U
100-02-7	4-Nitrophenol	1.60	U
121-14-2	2,4-Dinitrotoluene	0.700	U
84-66-2	Diethylphthalate	0.700	U
86-73-7	Fluorene	0.700	U
7005-72-3	4-Chlorophenyl phenyl ether	0.700	U
100-01-6	4-Nitroaniline	3.30	U
534-52-1	4,6-Dinitro-2-methylphenol	3.30	U
86-30-6	N-Nitrosodiphenylamine (1)	0.700	U
103-33-3	1,2-Diphenylhydrazine	0.333	U
101-55-3	4-Bromophenyl phenyl ether	0.700	U
118-74-1	Hexachlorobenzene	0.700	U
87-86-5	Pentachlorophenol	3.30	U
92875	Benzidine	1.67	U
85-01-8	Phenanthrene	0.700	U
120-12-7	Anthracene	0.700	U
86-74-8	Carbazole	0.333	U
84-74-2	Di-n-butylphthalate	0.0368	J
206-44-0	Fluoranthene	0.700	U
129-00-0	Pyrene	0.700	U
85-68-7	Butyl benzyl phthalate	0.700	U
56-55-3	Benzo(a)anthracene	0.330	U
91-94-1	3,3'-Dichlorobenzidine	1.30	U
218-01-9	Chrysene	0.330	U
117-81-7	Bis(2-ethylhexyl)phthalate	0.700	U
117-84-0	Di-n-octylphthalate	0.700	U
205-99-2	Benzo(b)fluoranthene	0.330	U
207-08-9	Benzo(k)fluoranthene	0.330	U

(1) - Cannot be separated from Diphenylamine

FORM 1 WOODWARD/CLYDE SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

WO-1

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: SV7327

Matrix: (soil/water) SOIL Lab Sample ID: 7327-1

Sample wt/vol: 30.0 (g/mL) G Lab File ID: FC353

Level: (low/med) LOW Date Received: 07/03/96

% Moisture: 0 decanted: (Y/N) N Date Extracted: 07/08/96

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/09/96

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG	Q
50-32-8	Benzo(a)pyrene	0.330	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.330	U
53-70-3	Dibenz(a,h)anthracene	0.330	U
191-24-2	Benzo(g,h,i)perylene	0.330	U

Inchcape Testing Services - Dallas

SEMIVOLATILE QUANTITATION REPORT

ata file : /chem2/ITS3.i/09Jul1996.b/fc353.d
ab Smp Id: D96-7327-1 Client Smp ID: D96-7327-1
Inj Date : 09-JUL-1996 13:09
perator : WSW Inst ID: ITS3.i
mp Info : 8270_ABN_S;;AB815-22;1
Misc Info : 30/1 07-08-96 WOODWARD CLYDE
Comment :
ethod : /chem2/ITS3.i/09Jul1996.b/abn3.m
eth Date : 12-Jul-1996 15:51 target Quant Type: ISTD
Cal Date : 17-JUN-1996 20:00 Cal File: fb998.d
Als bottle: 11
il Factor: 1.000
ntegrator: HP RTE Compound Sublist: all.sub
Target Version: 3.10

		QUANT SIG					CONCENTRATIONS ON-COLUMN	FINAL
	ompounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ng)	(mg/Kg)
$	3 2-Fluorophenol (SS)	112.00	3.940	3.972	(0.668)	542946	68.7	2.29
$	4 Phenol-d6 (SS)	99.00	5.297	5.318	(0.898)	767884	84.2	2.81
	10 1,4-Dichlorobenzene-d4	152.00	5.899	5.910	(1.000)	179253	40.0	
$	19 Nitrobenzene-d5 (SS)	82.00	6.861	6.898	(0.835)	252454	33.3	1.11
*	29 Naphthalene-d8	136.00	8.217	8.226	(1.000)	648213	40.0	
$	38 2-Fluorobiphenyl (SS)	172.00	10.415	10.430	(0.886)	309519	25.5	0.850
	45 Acenaphthene-d10	164.00	11.760	11.768	(1.000)	335273	40.0	
$	58 2,4,6-Tribromophenol (SS)	329.90	13.401	13.394	(1.139)	118374	88.7	2.96
*	62 Phenanthrene-d10	188.00	14.822	14.830	(1.000)	559616	40.0	
	66 Di-n-butylphthalate	149.00	16.145	16.145	(1.089)	26015	1.10	0.0368(a)
	70 Terphenyl-d14 (SS)	244.00	18.169	18.172	(0.896)	389407	29.6	0.988
*	74 Chrysene-d12	240.00	20.281	20.298	(1.000)	488716	40.0	
*	81 Perylene-d12	264.00	23.075	23.079	(1.000)	528313	40.0	

QC Flag Legend

- Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).

Inchcape Testing Services - Dallas

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: ITS3.i
Lab File ID: fc353.d
Lab Smp Id: D96-7327-1
Analysis Type: SV
Quant Type: ISTD
Operator: WSW
Method File: /chem2/ITS3.i/09Jul1996.b/abn3.m
Misc Info: 30/1 07-08-96 WOODWARD CLYDE

Calibration Date: 07/09/96
Calibration Time: 0755
Client Smp ID: D96-7327-1
Level: LOW
Sample Type: SOIL

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	% DIFF
10 1,4-Dichlorobenzene-	244609	122304	489218	179253	-26.72
29 Naphthalene-d8	861663	430832	1723326	648213	-24.77
45 Acenaphthene-d10	418594	209297	837188	335273	-19.90
62 Phenanthrene-d10	576572	288286	1153144	559616	-2.94
74 Chrysene-d12	507431	253716	1014862	488716	-3.69
81 Perylene-d12	552055	276028	1104110	528313	-4.30

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	% DIFF
10 1,4-Dichlorobenzene-	5.91	5.41	6.41	5.90	-0.17
29 Naphthalene-d8	8.23	7.73	8.73	8.22	-0.17
45 Acenaphthene-d10	11.77	11.27	12.27	11.76	-0.06
62 Phenanthrene-d10	14.83	14.33	15.33	14.82	-0.08
74 Chrysene-d12	20.30	19.80	20.80	20.28	-0.11
81 Perylene-d12	23.09	22.59	23.59	23.07	-0.08

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Inchcape Testing Services - Dallas

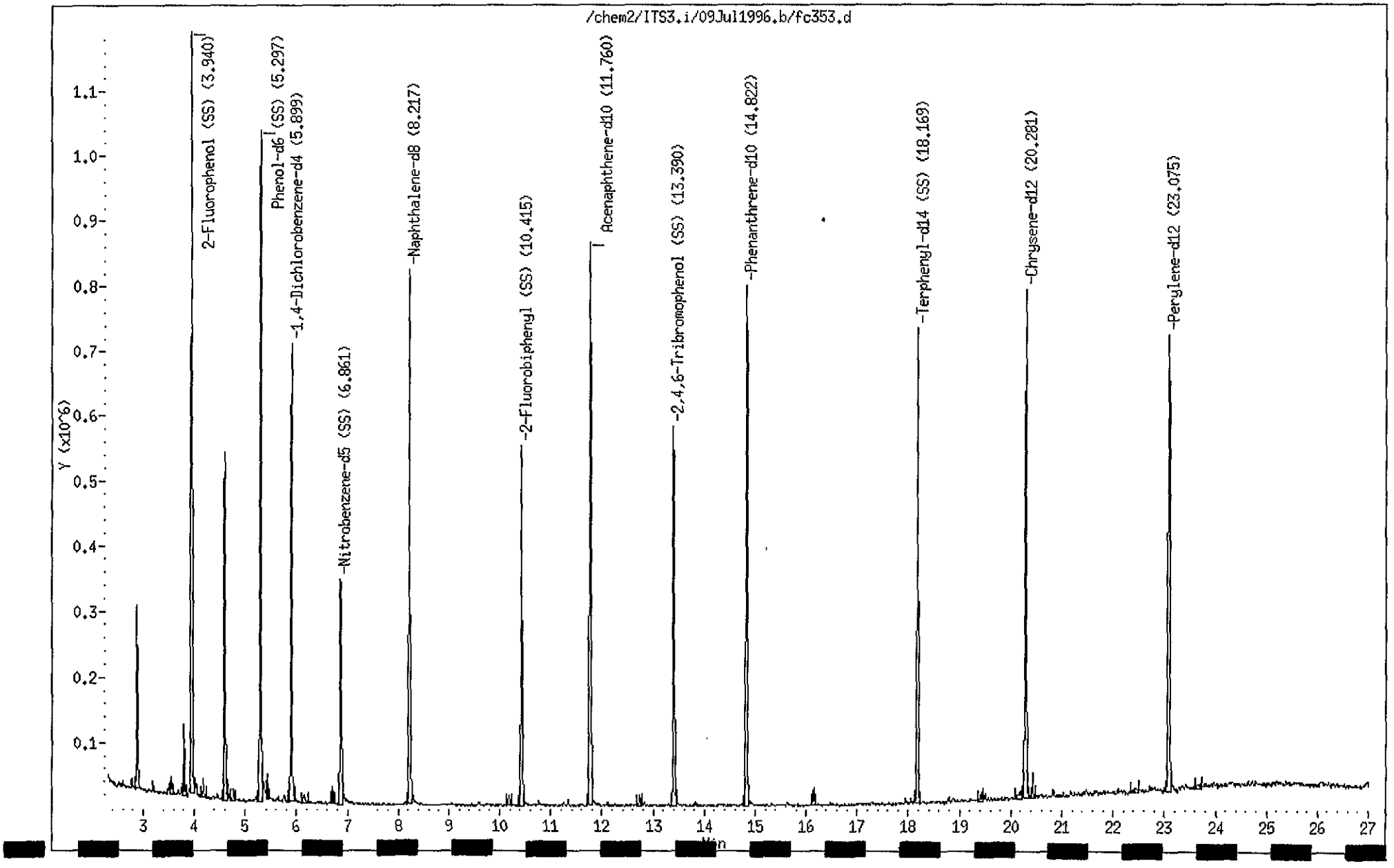
RECOVERY REPORT

Client Name: Client SDG: 09Jul1996
Sample Matrix: SOLID Fraction: SV
Lab Smp Id: D96-7327-1 Client Smp ID: D96-7327-1
Level: LOW Operator: WSW
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: 8270_100.spk Quant Type: ISTD
Method File: /chem2/ITS3.i/09Jul1996.b/abn3.m
Misc Info: 30/1 07-08-96 WOODWARD CLYDE

SURROGATE COMPOUND	CONC ADDED mg/Kg	CONC RECOVERED mg/Kg	% RECOVERED	LIMITS
$ 3 2-Fluorophenol (SS	3.33	2.29	68.71	25-121
$ 4 Phenol-d6 (SS)	3.33	2.81	84.20	24-113
$ 19 Nitrobenzene-d5 (S	1.67	1.11	66.66	23-120
$ 38 2-Fluorobiphenyl (	1.67	0.850	51.02	30-115
$ 58 2,4,6-Tribromophen	3.33	2.96	88.68	19-122
$ 70 Terphenyl-d14 (SS)	1.67	0.988	59.25	18-137

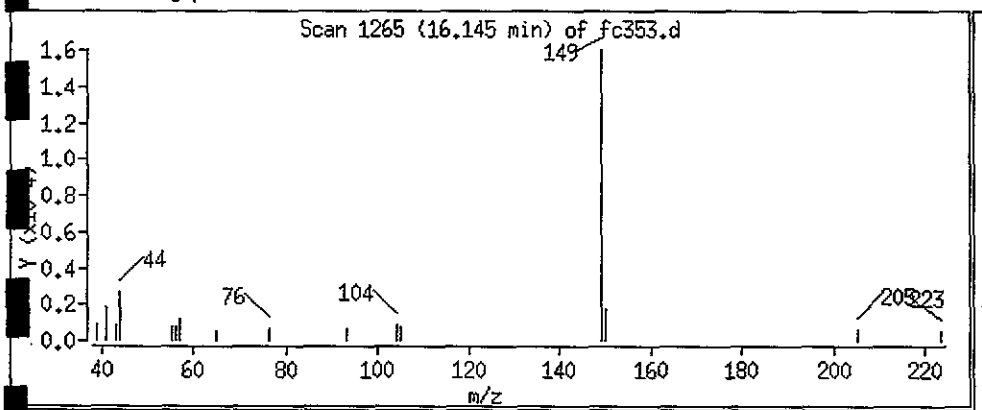
Data File: /chem2/ITS3.i/09Jul1996.b/fc353.d
Date : 09-JUL-1996 13:09
Client ID: D96-7327-1
Sample Info: 8270_ABN_S;;AB815-22;1
Volume Injected (uL): 1.0
Column phase: DB-5

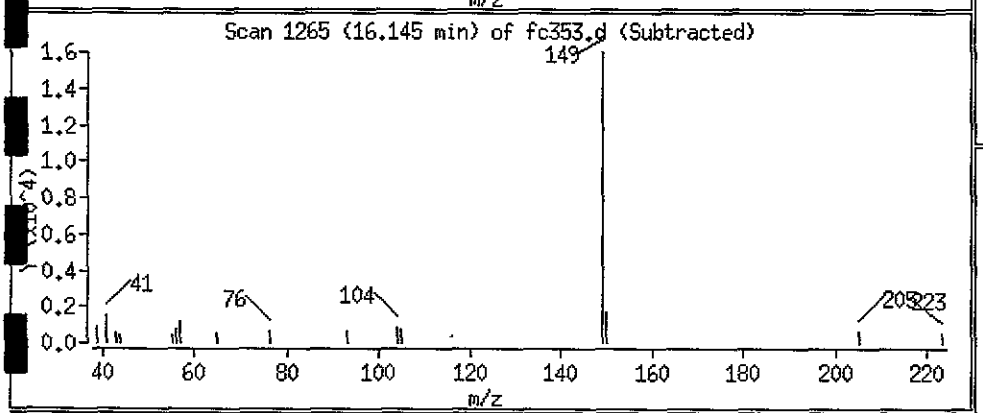
Instrument: ITS3.i
Operator: WSW
Column diameter: 0.25

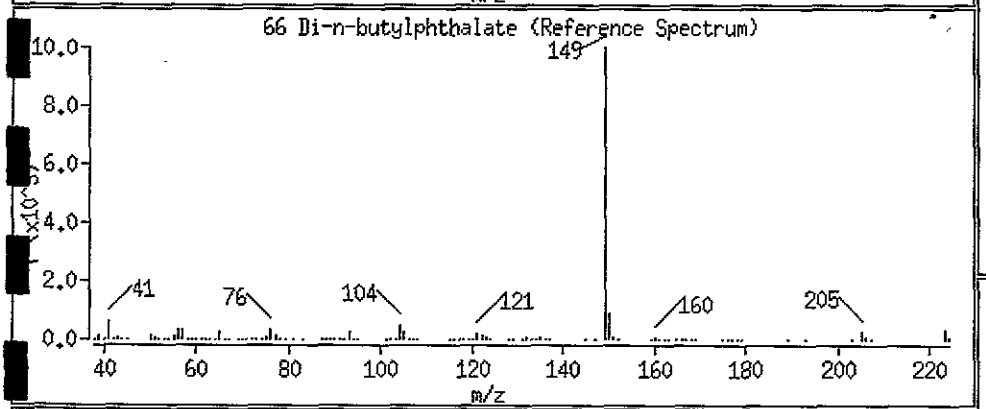


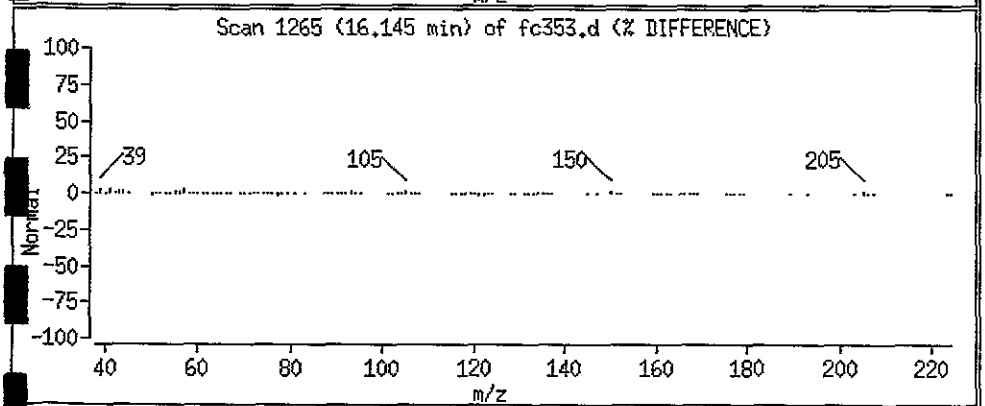
Data File: /chem2/ITS3.i/09Jul1996.b/fc353.d
Date : 09-JUL-1996 13:09
Client ID: D96-7327-1
Instrument: ITS3.i
Sample Info: 8270_ABN_S;;AB815-22;1
Volume Injected (uL): 1.0
Operator: WSW
Column phase: DB-5
Column diameter: 0.25

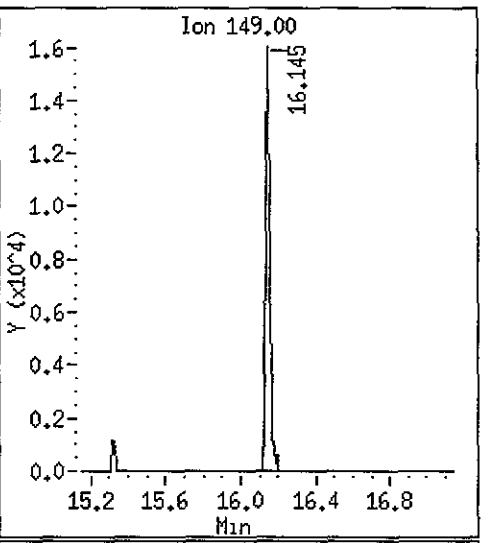
66 Di-n-butylphthalate

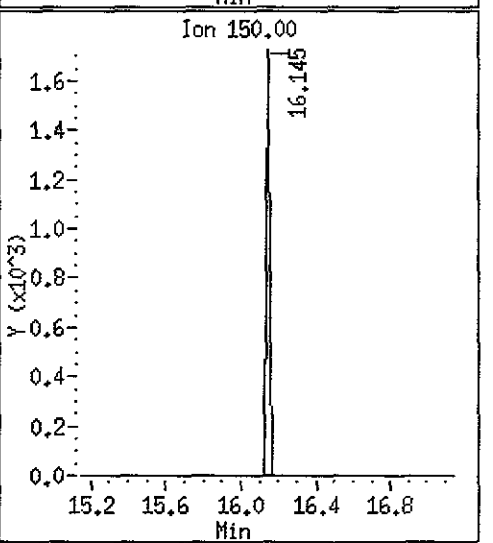


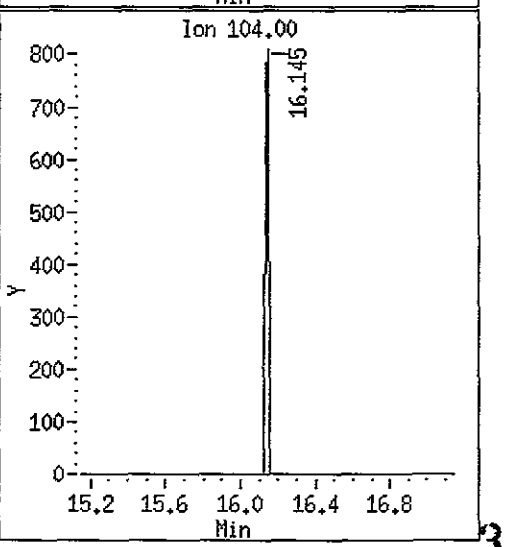












VOLATILE HALOCARBONS DATA

QUALITY CONTROL SUMMARY

FORM 2
SOIL 8010 SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: INCHCAPE TESTING SERVICES Contract: 729412

Lab Code: DALLAS Case No.: SAS No.: SDG No.: 8010-7327

Level: (low/med) LOW

	WWC SAMPLE NO.	SMC1 #	SMC2 #	SMC3 #	OTHER	TOT OUT
01	PBLKLCS	104				0
02	WO-1MS	103				0
03	WO-1MSD	101				0
04	PBLK	103				0
05	WO-1	106				0
06	PBLKLCSD	106				0
07						
08						
09						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25				*		
26						
27						
28						
29						
30						

		QC LIMITS
SMC1	= 4-BROMOFLUOROBENZENE	(70-130)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

FORM 3
SOIL 8010 MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: INCHCAPE TESTING SERVICES Contract: 729412

Lab Code: DALLAS Case No.: SAS No.: SDG No.: 8010-7327

Matrix Spike - Client Sample ID: WO-1 Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC. LIMITS REC.
Vinyl Chloride	100.00	0.00	107.48	107	68-132
Chloroform	100.00	0.00	92.59	92	75-125
Bromodichloromethane	100.00	0.00	79.60	80	76-124
Chlorobenzene	100.00	0.00	88.66	89	72-128
1,2-Dichlorobenzene	100.00	0.00	90.19	90	70-130

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Vinyl Chloride	100.00	124.15	124	15	25	68-132
Chloroform	100.00	98.92	99	7	25	75-125
Bromodichloromethane	100.00	82.75	83	4	25	76-124
Chlorobenzene	100.00	94.53	94	5	25	72-128
1,2-Dichlorobenzene	100.00	95.20	95	5	25	70-130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 5 outside limits
Spike Recovery: 0 out of 10 outside limits

COMMENTS: _____

FORM 3
SOIL 8010 LAB CONTROL SAMPLE

Lab Name: INCHCAPE TESTING SERVICES Contract: 729412

Lab Code: DALLAS Case No.: SAS No.: SDG No.: 8010-7327

Matrix Spike - Client Sample ID: PBLK Level: (low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC #	QC. LIMITS REC.
Vinyl Chloride	20.00	0.00	19.58	98	68-132
Chloroform	20.00	0.00	19.58	98	75-125
Bromodichloromethane	20.00	0.00	18.74	94	76-124
Chlorobenzene	20.00	0.00	18.81	94	72-128
1,2-Dichlorobenzene	20.00	0.00	19.24	96	70-130

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Vinyl Chloride	20.00	19.18	96	2	25	68-132
Chloroform	20.00	20.53	103	5	25	75-125
Bromodichloromethane	20.00	20.10	100	6	25	76-124
Chlorobenzene	20.00	19.81	99	5	25	72-128
1,2-Dichlorobenzene	20.00	20.32	102	6	25	70-130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 5 outside limits
Spike Recovery: 0 out of 10 outside limits

COMMENTS: _____

FORM 4
8010 METHOD BLANK SUMMARY

WWC SAMPLE NO.

PBLK

Lab Name: INCHCAPE TESTING SERVICES Contract:

Lab Code: DALLAS Case No.: SAS No.: SDG No.: 8010-7327

Lab File ID: 09JUL1943099 Lab Sample ID: PBLK

Date Analyzed: 07/09/96 Time Analyzed: 1943

GC Column: DB-624 ID: 0.53 (mm) Heated Purge: (Y/N) N

Instrument ID: MULTI19

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	WWC SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	PBLKLCS	PBLKLCS	09JUL1420099	1420
02	WO-1MS	7327-1MS	09JUL1607099	1607
03	WO-1MSD	7327-1MSD	09JUL1729099	1729
04	WO-1	7327-1	09JUL2050099	2050
05	PBLKLCSD	PBLKLCSD	09JUL2157099	2157
06				
07				
08				
09				
10				
11				
12				
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30				

COMMENTS:

SAMPLE DATA

FORM 1
8010 ORGANICS ANALYSIS DATA SHEET

WWC SAMPLE NO.

WO-1

Lab Name: INCHCAPE TESTING SERVICES Contract: 729412

Lab Code: DALLAS Case No.: SAS No.: SDG No.: 8010-7327

Matrix: (soil/water) SOIL Lab Sample ID: 7327-1

Sample wt/vol: 5.0 (g/mL) G Lab File ID: 09JUL2050099

Level: (low/med) LOW Date Received: 07/03/96

% Moisture: not dec. 18 Date Analyzed: 07/09/96

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

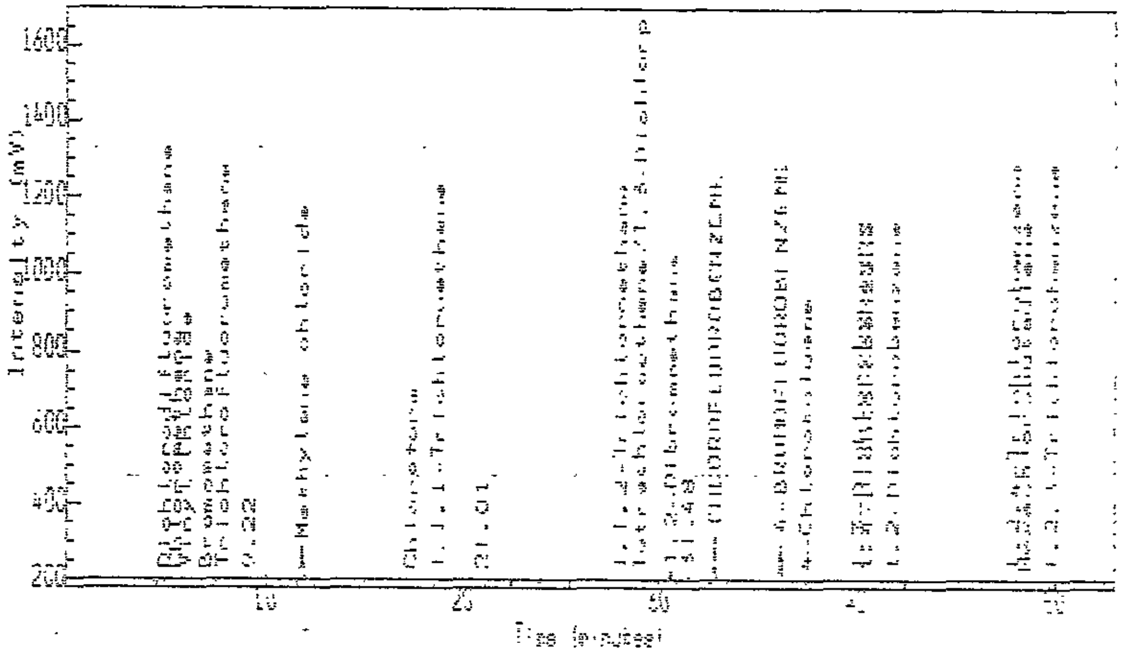
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	6.08	U
75-01-4	Vinyl Chloride	6.08	U
74-83-9	Bromomethane	14.60	U
75-00-3	Chloroethane	7.30	U
75-69-4	Trichlorofluoromethane	6.08	U
75-35-4	1,1-Dichloroethene	2.43	U
75-09-2	Methylene chloride	6.08	U
156-60-5	trans-1,2-Dichloroethene	1.22	U
75-34-3	1,1-Dichloroethane	1.22	U
156-59-4	cis-1,2-Dichloroethylene	1.22	U
67-66-3	Chloroform	1.22	U
71-55-6	1,1,1-Trichloroethane	1.22	U
56-23-5	Carbontetrachloride	2.43	U
107-06-2	1,2-Dichloroethane	3.65	U
79-01-6	Trichloroethene	1.22	U
78-87-5	1,2-Dichloropropane	1.22	U
75-27-4	Bromodichloromethane	1.22	U
10061-01-5	cis-1,3-Dichloropropene	2.43	U
10061-02-6	trans-1,3-Dichloropropene	2.43	U
79-00-5	1,1,2-Trichloroethane	1.22	U
127-18-4	Tetrachloroethene/1,3-Dichlo	1.22	U
124-48-1	Dibromochloromethane	1.22	U
108-90-7	Chlorobenzene	3.65	U
75-25-2	Bromoform	2.43	U
79-34-5	1,1,2,2 Tetrachloroethane	1.22	U
541-73-1	1,3-Dichlorobenzene	4.87	U
106-46-7	1,4-Dichlorobenzene	3.65	U
95-50-1	1,2-Dichlorobenzene	2.43	U

[070896] 4 VOA070996,9,1
Reported on 9-JUL-1996 at 21:44

Page

Injection Report

Acquired on 9-JUL-1996 at 20:50



Inchcape Testing Services - Dallas

Analyst Name :
Line Id :
Comment :
Method Title : METHOD 601-8010 VARIAN 3400 LSC 2000 [illegible]
Sample Name : 7327-1 [illegible] 8010_8
Sample Id :
Sample Type : Sample Amount=0.00500
Bottle No : 9

JCH 7-10-96

PEAK INFORMATION

RT mins	RT Corr	RT Exp	Area uVs	ug/L	Peak name	RF slope	RF intercept
4.957	4.957	5.070	10081	0.13	Dichlorodifluoromethane	0.1055	0.0000
5.548	5.548	5.580	10325	0.22	Chloromethane	0.0637	0.0000
6.023	6.023	5.900	31267	0.31	Vinyl Chloride	0.1332	0.0000
7.001	7.001	6.910	66011	1.77	Bromomethane BDL	0.0497	0.0000
7.854	7.854	7.840	43217	0.28	Trichlorofluoromethane	0.2064	0.0000
11.832	11.832	11.850	707798	4.14	Methylene chloride J value	0.2280	0.0000
12.837	12.837	12.860	1487	9.96E-3	trans-1,2-Dichloroethene	0.1987	0.0000
17.366	17.366	17.380	8340	0.04	Chloroform	0.2522	0.0000
18.010	18.010	18.050	1148	0.01	Bromochloromethane	0.1402	0.0000
18.717	18.717	18.770	7405	0.04	1,1,1-Trichloroethane	0.2339	0.0000
22.343	22.343	22.380	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

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RT mins	RT Corr	RT Exp	Area uVs	ug/L	Peak name	RF slope	RF intercept
30.552	30.552	30.580	118934	1.96	1,2-Dibromoethane NL	0.0806	0.0000
31.966	31.966	31.938	943	0.01	Chlorobenzene	1.4862	0.0000
32.792	32.792	32.880	750732		CHLOROFLUOROBENZENE	1.3470	0.0000
36.170	36.170	36.200	682453	10.59	4-BROMOFLUOROBENZENE 106%	0.7659	0.0000
37.294	37.294	37.320	3805	0.07	2-Chlorotoluene	0.0763	0.0000
37.468	37.468	37.520	16050	0.27	4-Chlorotoluene	0.0785	0.0000
40.108	40.108	40.160	5287	0.08	1,3-Dichlorobenzene	0.1256	0.0000
40.521	40.521	40.530	12275	0.13	1,4-Dichlorobenzene	0.1237	0.0000
41.854	41.854	41.910	7683	0.02	1,2-Dichlorobenzene	0.1212	0.0000
47.979	47.979	48.040	22713	0.22	1,2,4-Trichlorobenzene	0.1366	0.0000
48.459	48.459	48.560	6265	0.04	Hexachlorobutadiene	0.2057	0.0000
49.872	49.872	49.880	20466	0.22	1,2,3-Trichlorobenzene	0.1132	0.0000

Totals

Unknowns	111041	N/A
Quantified	2548327	20.70
Grand Total	2659368	20.70

MISSING PEAKS

RT mins	Peak name
7.240	Chloroethane
7.760	1,1-Dichloroether
14.550	1,1-Dichloroetnene
16.540	2,2-Dichloropropane
16.820	cis-1,2-Dichloroethylene
19.230	1,1-Dichloropropene
19.540	Carbontetrachloride
20.310	1,2-Dichloroethane
23.030	1,2-Dichloropropane
25.230	cis-1,3-Dichloropropene
29.900	Dibromochloromethane
32.190	1,1,1,2-Tetrachloroethane
35.400	Bromoform
35.970	1,1,2,2 Tetrachloroethane
36.500	1,2,3-Trichloropropane
36.860	Bromobenzene
44.940	1,2-Dibromo-3-chloropropane

PEAK GROUP INFORMATION

Area uVs	ug/L	Peak name

8425 0.04 TRIHALOMETHANES

ANALYSIS SUMMARY

Method..... HALL
Run sequence..... VOA
Calibration..... 80100530
Internal standard calibration using area
Calibration last modified on 31-MAY-1996 at 14:34

Uncalibrated peaks use user factor (1.0000)

VOLATILE AROMATICS DATA

QUALITY CONTROL SUMMARY

FORM 2
SOIL 8020 SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: INCHCAPE TESTING SERVICES Contract:

Lab Code: Case No.: SAS No.: SDG No.: BTX7327

Level: (low/med) LOW

	WWC SAMPLE NO.	SMC1 #	SMC2 #	SMC3 #	OTHER	TOT OUT	
01	BLANKLCS		101			0	
02	BLANKLCSD		101			0	
03	WO-1MS		102			0	
04	WO-1MSD		102			0	
05	BLANK		101			0	
06	WO-1		97.0			0	
07	MOP-1		94.1			0	
08	OGP-1		92.6			0	
09	DP-2		93.5			0	
10	MOP-2		95.6			0	
11	CPG-2		106			0	
12	GPSTP-2		101			0	
13	CPG-1		105			0	
14	DSTP-1		99.1			0	
15	CPD-2		97.1			0	
16	OGP-3		97.3			0	
17	GPSTP-1		109			0	
18	OGP-2		98.7			0	
19	CPD-1		114			0	
20	DP-1		D			1	*
21							
22							
23							
24							
25							
26							
27							
28							
29							
					ADVISORY QC LIMITS		

S1= BROMOFLUOROBENZENE (SS (70-130)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

FORM 2
SOIL 8020 SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: INCHCAPE TESTING SERVICES Contract:

Lab Code: Case No.: SAS No.: SDG No.: BTEX7327

Level: (low/med) LOW

	WWC SAMPLE NO.	SMC1 #	SMC2 #	SMC3 #	OTHER	TOT OUT
01	PBLK1LCS	100				0
02	PBLK1LCSD	101				0
03	WO-1MS	101				0
04	WO-1MSD	101				0
05	PBLK1	95				0
06	WO-1	101				0
07	DP-1	102				0
08						
09						
10						
11						
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QC LIMITS

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

FORM 2
LIQUID 8020 SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: INCHCAPE TESTING SERVICES Contract:

Lab Code: Case No.: SAS No.: SDG No.: BTX7327

Level: (low/med) LOW

	WWC SAMPLE NO.	SMC1 #	SMC2 #	SMC3 #	OTHER	TOT OUT
01	BLANKLCS		98.3			0
02	BLANKLCSD		98.2			0
03	PBLK		104			0
04	TRIPBLKMS		97.2			0
05	TRIPBLKMSD		98.8			0
06	TRIPBLK		104			0
07						
08						
09						
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29						
					ADVISORY QC LIMITS	

S2= BROMOFLUOROBENZENE (SS (70-130)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

FORM II 8020

FORM 3
SOIL 8020 MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: INCHCAPE TESTING SERVICES Contract:

Lab Code: Case No.: SAS No.: SDG No.: BTX7327

Matrix Spike - Client Sample ID: WO-1 Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC. LIMITS REC.
Benzene	250	0.000	210	84	75-125
Toluene	250	0.000	204	82	75-125
Ethyl benzene	250	0.000	197	79	75-125
Xylenes	750	0.000	615	82	75-125

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Benzene	250	213	85	1	20	75-125
Toluene	250	208	83	1	20	75-125
Ethyl benzene	250	201	80	1	20	75-125
o-Xylenes	750	625	83	1	20	75-125

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 5 outside limits
Spike Recovery: 0 out of 10 outside limits

COMMENTS: _____

FORM 3
SOIL 8020 LAB CONTROL SAMPLE

Lab Name: INCHCAPE TESTING SERVICES Contract:

Lab Code: Case No.: SAS No.: SDG No.: BTX7327

Matrix Spike - Client Sample ID: PBLK Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC #	QC. LIMITS REC.
Benzene	50	0.0000	40.1	80.3	75-125
Toluene	50	0.0000	39.3	78.7	75-125
Ethyl benzene	50	0.0000	38.9	77.8	75-125
o-Xylenes	50	0.0000	38.4	76.8	75-125

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Benzene	50	37.6	75.2	6	20	75-125
Toluene	50	37.0	74.0	6	20	75-125
Ethyl benzene	50	36.8	73.7	5	20	75-125
o-Xylenes	50	36.3	72.6	5	20	75-125

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 5 outside limits
Spike Recovery: 3 out of 10 outside limits

COMMENTS: _____

FORM 3
SOIL 8020 MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: INCHCAPE TESTING SERVICES Contract:

Lab Code: Case No.: SAS No.: SDG No.: BTEX7327

Matrix Spike - Client Sample ID: WO-1 Level: (low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC. LIMITS REC.
Benzene	250.0	0.00	208	83	70-130
Toluene	250.0	0.00	206	82	70-130
Ethyl benzene	250.0	0.00	203	81	70-130
Xylenes	750.0	0.00	635	85	70-130

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Benzene	250.0	212	85	2	25	70-130
Toluene	250.0	210	84	2	25	70-130
Ethyl benzene	250.0	207	83	2	25	70-130
Xylenes	750.0	645	86	1	25	70-130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 5 outside limits
Spike Recovery: 10 out of 10 outside limits

COMMENTS: _____

FORM 3
SOIL 8020 LAB CONTROL SAMPLE

Lab Name: INCHCAPE TESTING SERVICES Contract:

Lab Code: Case No.: SAS No.: SDG No.: BTEX7327

Matrix Spike - Client Sample ID: PBLK Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC #	QC. LIMITS REC.
Benzene	50.0	0.00	39.53	79	75-125
Toluene	50.0	0.00	39.04	78	75-125
Ethyl benzene	50.0	0.00	38.66	77	75-125
Xylenes	150.0	0.00	121.48	81	75-125

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Benzene	50.0	39.26	78	1	20	75-125
Toluene	50.0	38.64	77	1	20	75-125
Ethyl benzene	50.0	38.30	76	1	20	75-125
Xylenes	150.0	120.19	80	1	20	75-125

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 5 outside limits
Spike Recovery: 0 out of 10 outside limits

COMMENTS: _____

_____

FORM 3
8020 MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: INCHCAPE TESTING SERVICES Contract:

Lab Code: Case No.: SAS No.: SDG No.: BTX7327L

Matrix Spike - Client Sample ID: TRIPBLK Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC. LIMITS REC.
Benzene	500	0.000	486	101	75-125
Toluene	500	0.000	488	97.6	75-125
Ethyl benzene	500	0.000	480	96.0	75-125
Xylenes	500	0.000	518	103	75-125

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Benzene	500	518	104	3	20	75-125
Toluene	500	523	105	7	20	75-125
Ethyl benzene	500	525	105	8	20	75-125
Xylenes	500	558	112	8	20	75-125

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 5 outside limits
Spike Recovery: 0 out of 10 outside limits

COMMENTS: _____

FORM 3
8020 LAB CONTROL SAMPLE

Lab Name: INCHCAPE TESTING SERVICES Contract:

Lab Code: Case No.: SAS No.: SDG No.: BTX7327L

Matrix Spike - Client Sample ID: PBLK Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
Benzene	50	0.0000	48.6	97.2	75-125
Toluene	50	0.0000	48.8	97.6	75-125
Ethyl benzene	50	0.0000	48.0	96.2	75-125
Xylenes	50	0.0000	51.8	104	75-125

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Benzene	50	51.8	104	7	20	75-125
Toluene	50	52.4	105	7	20	75-125
Ethyl benzene	50	52.5	105	8	20	75-125
Xylenes	50	55.8	112	8	20	75-125

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 5 outside limits
Spike Recovery: 0 out of 10 outside limits

COMMENTS: _____

FORM 4
8020 METHOD BLANK SUMMARY

WWC SAMPLE NO.

PBLK

Lab Name: INCHCAPE TESTING SERVICES Contract:

Lab Code: Case No.: SAS No.: SDG No.: BTX7327

Lab File ID: 10JUL0616099 Lab Sample ID: 7327-17

Date Analyzed: 07/10/96 Time Analyzed: 0616

GC Column: DB-624 ID: 0.53 (mm) Heated Purge: (Y/N) Y

Instrument ID: MULTI15

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	WWC SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	PBLKLCS	7327-20	10JUL0441	0441
02	PBLKLCSD	PBLKLCSD	10JUL0505	0505
03	WO-1MS	7327-1MS	10JUL0529	0529
04	WO-1MSD	7327-1MSD	10JUL0552	0552
05	WO-1	7327-1	10JUL0640	0640
06	MOP-1	7327-6	10JUL0708	0708
07	OGP-1	7327-10	10JUL0732	0732
08	DP-2	7327-9	10JUL0822	0822
09	MOP-2	7327-7	10JUL1237	1237
10	CPG-2	7327-5	10JUL1302	1302
11	GPDTP-2	7327-15	10JUL1327	1327
12	CPG-1	7327-4	10JUL1352	1352
13	DSTP-1	7327-13	10JUL1619	1619
14	CPD-2	7327-3	10JUL1706	1706
15	OGP-3	7327-12	10JUL1731	1731
16	GPSTP-1	7327-14	10JUL1755	1755
17	OGP-2	7327-11	10JUL2021	2021
18	CPD-1	7327-2	10JUL2133	2133
19				
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29				
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COMMENTS:

FORM 4
8020 METHOD BLANK SUMMARY

WWC SAMPLE NO.

PBLK1

Lab Name: INCHCAPE TESTING SERVICES Contract:

Lab Code: Case No.: SAS No.: SDG No.: BTEX7327

Lab File ID: 11JUL0108710 Lab Sample ID: PBLK1

Date Analyzed: 07/11/96 Time Analyzed: 0108

GC Column: DB-624 ID: 0.53 (mm) Heated Purge: (Y/N) Y

Instrument ID: MULTI15

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	KLEINFELDER SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	PBLK1LCS	PBLK1LCS	10JUL2332710	2332
02	PBLK1LCSD	PBLK1LCSD	10JUL2356710	2356
03	WO-1MS	7327-1MS	11JUL0020710	0020
04	WO-1MSD	7327-1MSD	11JUL0044710	0044
05	WO-1	7327-1	11JUL0132710	0132
06	DP-1	7327-8	11JUL1106710	1106
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
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22				
23				
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27				
28				
29				
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COMMENTS:

FORM 4
8020 METHOD BLANK SUMMARY

WWC SAMPLE NO.

PBLK

Lab Name: INCHCAPE TESTING SERVICES Contract:

Lab Code: Case No.: SAS No.: SDG No.: BTX7327L

Lab File ID: 09JUL1241070 Lab Sample ID: PBLK

Date Analyzed: 07/09/96 Time Analyzed: 1241

GC Column: DB-624 ID: 0.53 (mm) Heated Purge: (Y/N) Y

Instrument ID: MULTI9

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	WWC SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	BLANKLCS	BLANKLCS	09JUL1057070	1057
02	BLANKLCSD	BLANKLCSD	09JUL1118070	1118
03	PBLK	PBLK	09JUL1241070	1241
04	TRIPBLKMS	7327-16MS	09JUL1301070	1301
05	TRIPBLKMSD	7327-16MSD	09JUL1322070	1322
06	TRIPBLK	7327-16	09JUL1343070	1343
07				
08				
09				
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COMMENTS:

SAMPLE DATA

FORM 1
8020 ORGANICS ANALYSIS DATA SHEET

WWC SAMPLE NO.

WO-1

Lab Name: INCHCAPE TESTING SERVICES Contract:

Lab Code: Case No.: SAS No.: SDG No.: BTX7327

Matrix: (soil/water) SOIL Lab Sample ID: 7327-1

Sample wt/vol: 5.0 (g/mL) G Lab File ID: 10JUL0640

Level: (low/med) LOW Date Received: 07/03/96

% Moisture: not dec. 18 Date Analyzed: 07/10/96

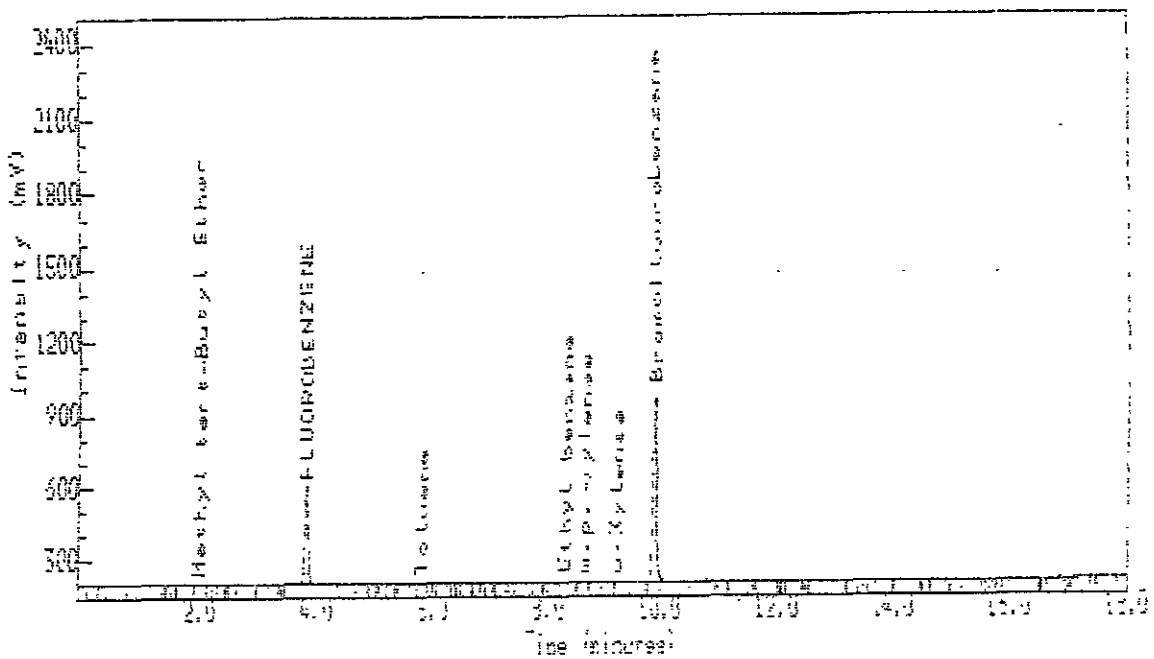
GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
71-43-2	Benzene	2.4	U
108-88-3	Toluene	2.4	U
100-41-4	Ethyl benzene	2.4	U
108-38-3	m.p.-xylenes	2.4	U
95-47-6	o-Xylenes	2.4	U

Injection Report

Acquired on 10-JUL-1996 at 06:40



Inchcape Testing Services - Dallas

Analyst Name :
Lims Id :
Comment :
method file :
Sample Name : 7327-1 5ml 8020/8015
Sample Id :
Sample Type : Sample Amount=0.00000
Bottle No : 36

PEAK INFORMATION

Cal	Fragm RT	mane RT	Corr RT	Exp	Area uVs	ug/L-ug/kg	Peak name	RF slope	RF intercept
	3.099	3.099	3.260		3055	0.58	methyl tert-Butyl Ether	0.0034	0.0000
I	3.917	3.917	4.006		1633259		FLUOROBENZENE	1.0000	0.0000
	5.899	5.899	5.975		11793	0.38	Toluene	0.0254	0.0000
	8.388	8.388	8.304		37044	1.00	Ethyl benzene	0.0226	0.0000
	8.690	8.690	8.560		2181	0.05	m,p-xylenes	0.0259	0.0000
S	9.894	9.894	10.020		3142701	48.64	Bromofluorobenzene	0.0396	0.0000

Totals		
Unknowns	552716	N/A
Quantified	4830333	50.56
Grand Total	5383049	50.56

jvalue

7-10-96

MISSING PEAKS

RT mins	Peak name
3.748	Benzene

PEAK GROUP INFORMATION

Area uVs	ug/L-ug/Kg	Peak name
2338	0.06	Xylenes

ANALYSIS SUMMARY

Method..... VOA0A1
Run sequence.. .... VU2
Calibration..... ..... BTX0703
Internal standard % calibration using area
Calibration last modified on 9-JUL-1996 at 18:13

Uncalibrated peaks use user factor (0.0000)

FORM 1
8020 ORGANICS ANALYSIS DATA SHEET

WWC SAMPLE NO.

WO-1

Lab Name: INCHCAPE TESTING SERVICES Contract:

Lab Code: Case No.: SAS No.: SDG No.: BTEX7327

Matrix: (soil/water) SOIL Lab Sample ID: 7327-1

Sample wt/vol: 5.0 (g/mL) G Lab File ID: 11JUL0132

Level: (low/med) LOW Date Received: 07/03/96

% Moisture: not dec. _____ Date Analyzed: 07/11/96

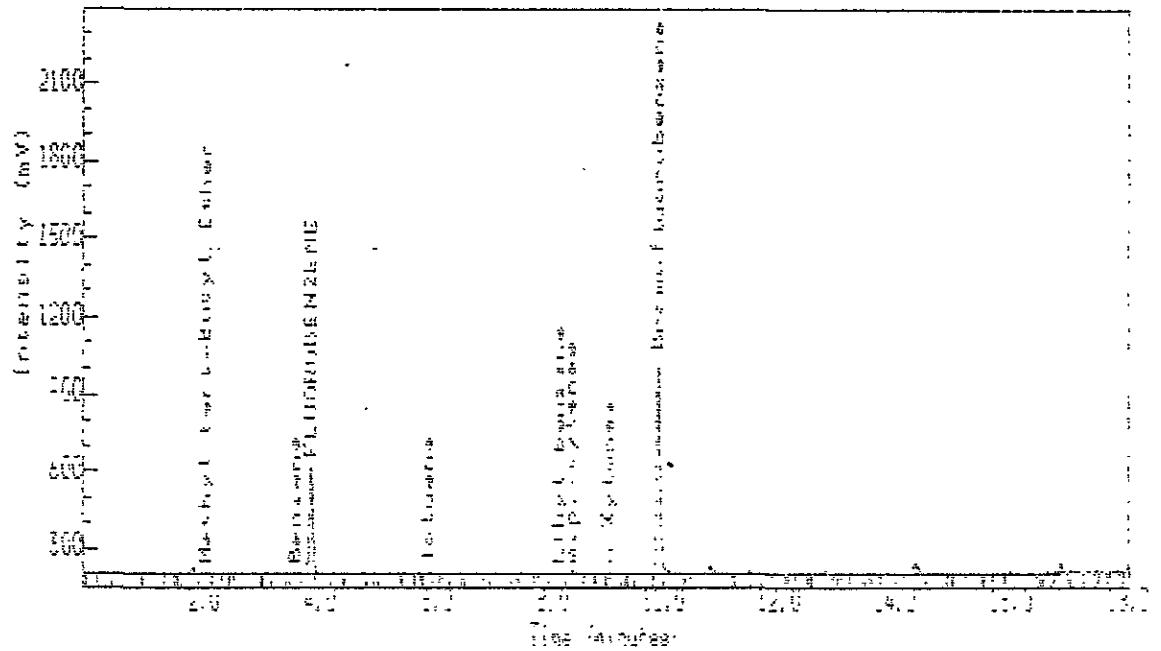
GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
71-43-2	Benzene	2.4	U
108-88-3	Toluene	2.4	U
100-41-4	Ethyl benzene	2.4	U
108-38-3	m.p.-xylenes	2.4	U
95-47-6	o-Xylenes	2.4	U

Injection Report

Acquired on 11-JUL-1996 at 01:32



Instrument Testing Services - Volatiles

Analyst Name :
Lims Id :
Comment : PURGEABLE AROMATICS BY PID/FID
Method Title :
Sample Name : 7327-1 SW-8020/8015-MOD ONLY
Sample Id :
Sample Type : Sample Amount=0.000000
Bottle No : 7

PEAK INFORMATION

Cal	Flags	RT mins	RT Corr RT	Exp RT	Area uVs	Conc ug/kg	Peak name	RF Ratio	RF Percent
		3.112	3.112	3.130	3Y%	0.52	Methyl tert-Butyl Ether	1.0034	0.0000
		3.672	3.672	3.745	253	0.04	Benzene	0.0250	0.0000
I		3.949	3.949	4.000	1ad7558		FLUOROBENZENE	1.0000	0.0000
		5.421	5.921	5.901	13400	0.01	Toluene	0.0254	0.0000
		8.201	8.201	8.202	11706	0.01	Ethyl benzene	0.0221	0.0000
		8.410	8.410	8.407	40ab7	0.03	m,p-Xylenes	0.0258	0.0000
		9.050	9.050	9.080	10291	0.27	o-Xylenes	0.0263	0.0000
S		9.912	9.912	10.000	340c020	51.02	Bromofluorobenzene	0.0396	0.0000

Totals

Unknowns		966841	N/A
Quantified		5179180	53.51
Grand Total		61ab122	53.51

MISSING PEAKS

No missing peaks.

PEAK AREAS INFORMATION

Area uVs	ug/l-ug/kg	Peak name
50958	1.21	Xylenes

ANALYSIS SUMMARY

Method..... VOA0A1
Run sequence..... VOA1
Calibration..... BTX0703
Internal standard % calibration using area
Calibration last modified on 10-JUL-1996 at 09:58

Uncalibrated peaks use user factor (0.0000)

FORM 1
8020 ORGANICS ANALYSIS DATA SHEET

WWC SAMPLE NO.

CPD-1

Lab Name: INCHCAPE TESTING SERVICES Contract:

Lab Code: Case No.: SAS No.: SDG No.: BTX7327

Matrix: (soil/water) SOIL Lab Sample ID: 7327-2

Sample wt/vol: 5.0 (g/mL) G Lab File ID: 10JUL2133

Level: (low/med) LOW Date Received: 07/03/96

% Moisture: 19 Date Analyzed: 07/10/96

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 50.0

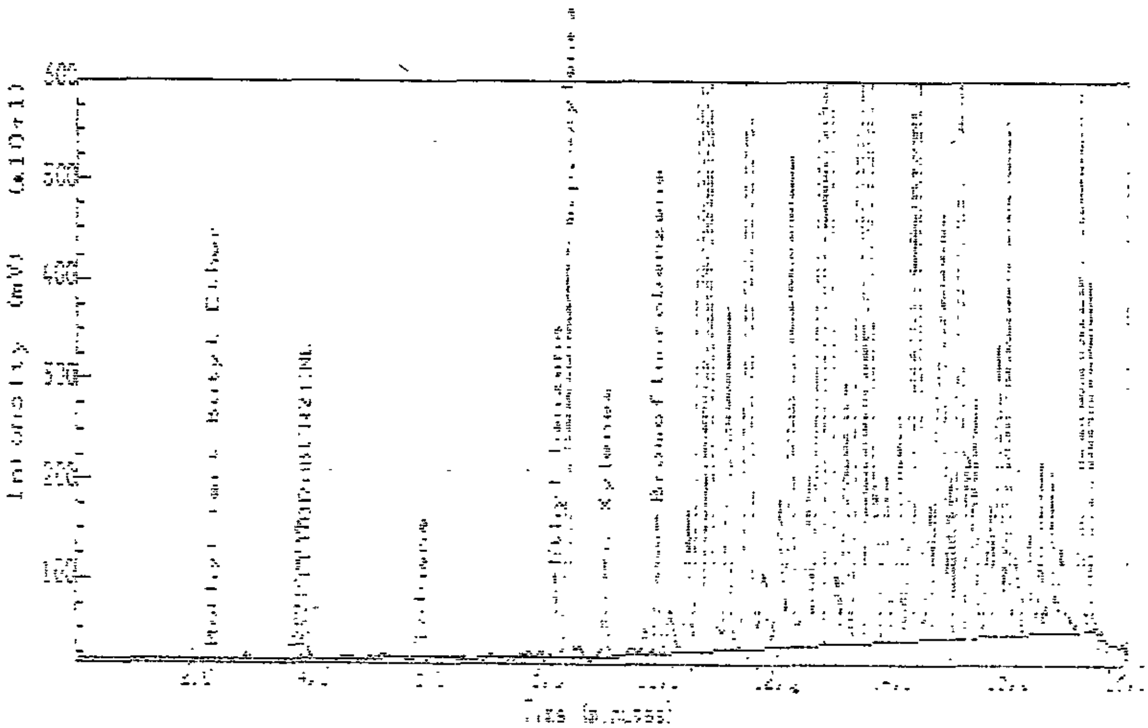
Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
71-43-2	Benzene	124.0	U
108-88-3	Toluene	124.0	U
100-41-4	Ethyl benzene	3630.0	
108-38-3	m.p.-xylenes	15665.0	
95-47-6	o-Xylenes	4482.0	

[070896] I7 VOA070896A,70,1
Reported on 11-JUL-1996 at 07:12

Injection Report

Acquired on 10 JUL-1996 at 21:35



Inchcape Testing Services - Dallas

nalyst Name :
Line Id :
Comment :
ethod Title :
ample Name : 7727-1 1/50 8010/8015
Sample Id :
ample Type : Sample Amount=0.00000
ottle No : 54

MWS 7-11-96

PEAK INFORMATION

Cal Flags	RT Time	RT Corr	RT Exp	Area uVs	ug/L-ug/Kg	Peak name	RF slope	RF intercept
	2.348	2.348	2.260	326	1.67	Methyl tert-Butyl Ether	0.0034	0.0000
	3.788	3.788	3.748	10252	6.41	Benzene	0.0080	0.0000
I	3.943	3.943	4.006	2842502		FLUOROBENZENE	1.0000	0.0000
	5.934	5.934	5.901	89381	61.76	Toluene j. Value	0.0274	0.0000
	8.219	8.219	8.202	3793897	2945.10	Ethyl benzene	0.0226	0.0000
	8.428	8.428	8.407	18666248	12688.63	m,p,-Xylenes	0.0258	0.0000
	9.068	9.068	9.080	4620421	3620.50	o-Xylenes	..0222	0.0000
S	9.951	9.932	10.020	64104..	2844.15	Bromofluorobenzene	0.0396	0.0000

307

[070896] 27 VOA070996A,70,1
Reported on 11-JUL-1996 at 07:12

Unknowns	787038528	N/A
Quantified	36439540	2278.48
Grand Total	823478050	2278.45

MISSING PEAKS

No missing peaks.

PEAK GROUP INFORMATION

Area sum	ug/L-ug/Kg	Peak name
2328ee70	[illegible]	Xylenes

ANALYSIS SUMMARY

Method.................................. [illegible]
[illegible] background.................. [illegible]
Calibration............................. [illegible]
Internal standard & calibration using area
Calibration last modified on [illegible]-JUL-1996 at [illegible]

Uncalibrated peaks use user factor ([illegible]).

FORM 1
8020 ORGANICS ANALYSIS DATA SHEET

WWC SAMPLE NO.

CPD-2

Lab Name: INCHCAPE TESTING SERVICES Contract:

Lab Code: Case No.: SAS No.: SDG No.: BTX7327

Matrix: (soil/water) SOIL Lab Sample ID: 7327-3

Sample wt/vol: 5.0 (g/mL) G Lab File ID: 10JUL1706

Level: (low/med) LOW Date Received: 07/03/96

% Moisture: 18 Date Analyzed: 07/10/96

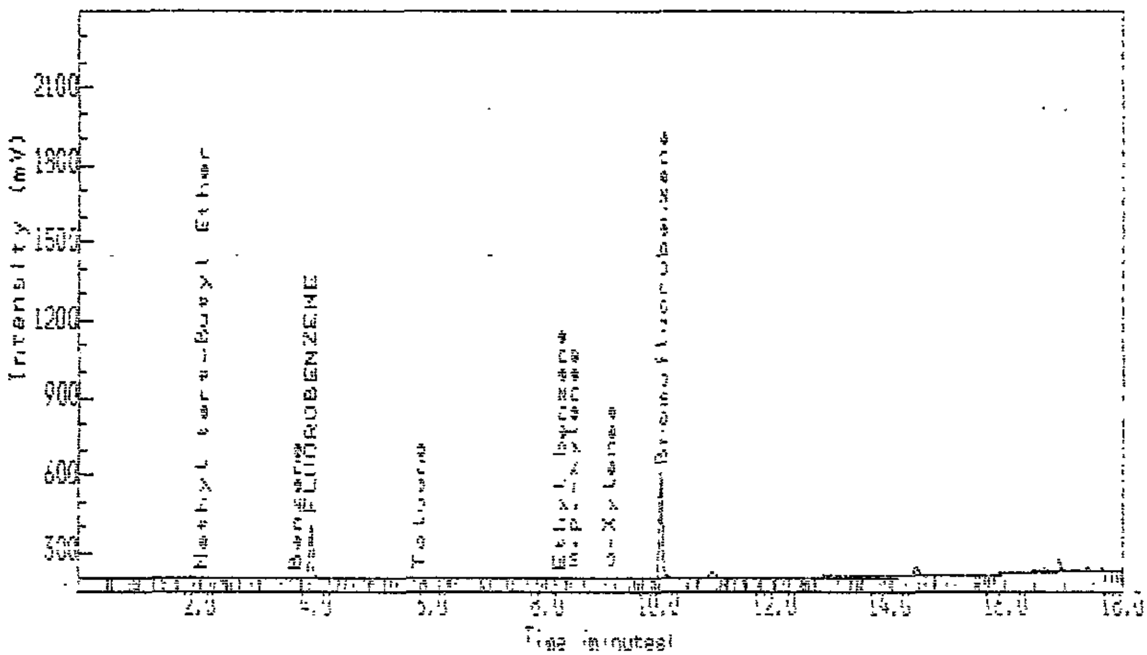
GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
71-43-2	Benzene	2.4	U
108-88-3	Toluene	2.4	U
100-41-4	Ethyl benzene	2.4	U
108-38-3	m.p.-xylenes	2.4	U
95-47-6	o-Xylenes	2.4	U

Injection Report

Acquired on 10-JUL-1996 at 17:06



Inchcape Testing Services - Dallas

Analyst Name :
Lims Id :
Comment :
Method Title :
Sample Name : 7227-3A 5G ~~8020/8015~~
Sample Id :
Sample Type : Sample Amount=0.00000
Bottle No : 52

Rept w/ CSN
Low purge
(Cnf ~~qty~~ #53)
Mes 7-10-96

PEAK INFORMATION

Cal Flags	RT mins	RT Corr	RT Exp	Area uVs	ug/L-ug/Kg	Peak name	RF slope	RF intercept
	2.148	2.148	2.260	1972	0.67	Methyl tert-Butyl Ether	0.0034	0.0000
	3.748	3.748	3.748	1804	0.08	Benzene	0.0280	0.0000
I	4.019	4.019	4.006	257372		FLUOROBENZENE	1.0000	0.0000
	8.317	8.317	8.202	2773	0.14	Ethyl benzene	0.0226	0.0000
	8.526	8.526	8.407	6843	0.31	m,p,-xylenes	0.0258	0.0000
	9.170	9.170	9.080	2119	0.11	o-Xylenes	0.0223	0.0000
0	10.032	10.032	10.020	1647220	48.57	Bromofluorobenzene	0.0396	0.0000

Totals		
Unknowns	1182768	N/A
Quantified	2520101	49.88
Grand Total	3702869	49.88

MISSING PEAKS

No missing peaks.

PEAK GROUP INFORMATION

Area uVs	ug/L-ug/Kg	Peak name
5961	0.42	Xylenes

ANALYSIS SUMMARY

Method..... VOACAL
Run sequence..... VQA
Calibration..... STX0703
Internal standard % calibration using area
Calibration last modified on 10-JUL-1996 at 09:58

Uncalibrated peaks use user factor (0.0000)

FORM 1
8020 ORGANICS ANALYSIS DATA SHEET

WWC SAMPLE NO.

CPG-1

Lab Name: INCHCAPE TESTING SERVICES Contract:

Lab Code: Case No.: SAS No.: SDG No.: BTX7327

Matrix: (soil/water) SOIL Lab Sample ID: 7327-4

Sample wt/vol: 5.0 (g/mL) G Lab File ID: 10JUL1352

Level: (low/med) LOW Date Received: 07/03/96

% Moisture: 20 Date Analyzed: 07/10/96

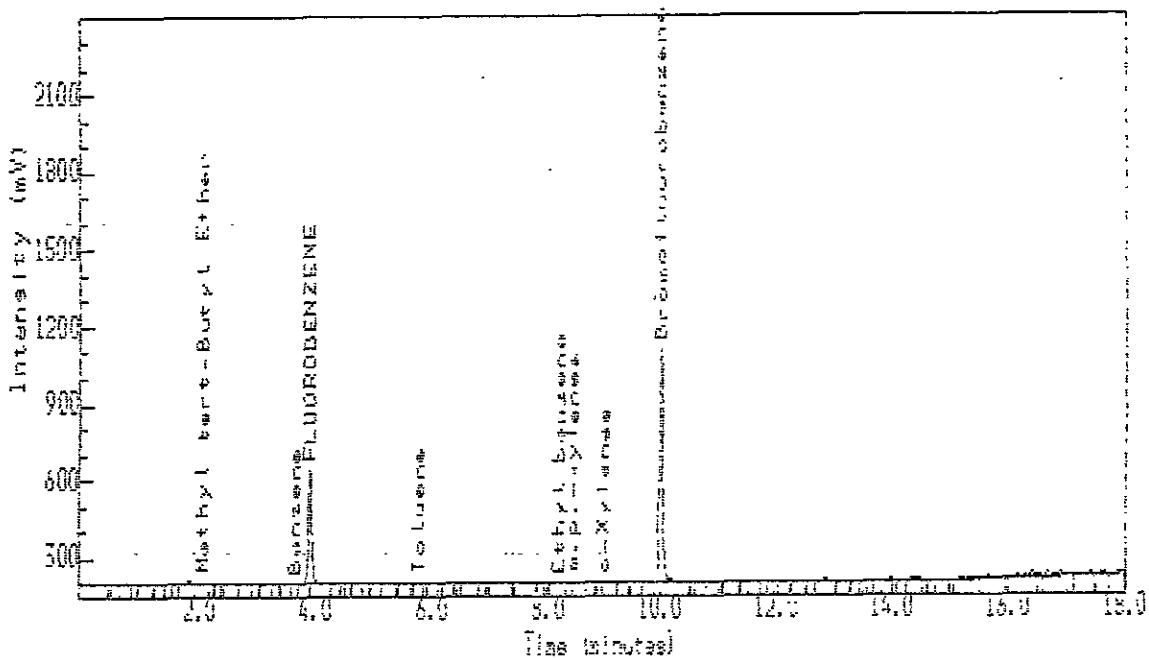
GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
71-43-2	Benzene	2.5	U
108-88-3	Toluene	2.5	U
100-41-4	Ethyl benzene	2.5	U
108-38-3	m.p.-xylenes	2.5	U
95-47-6	o-Xylenes	2.5	U

Injection Report

Acquired on 10-JUL-1996 at 13:52



Inchcape Testing Services - Dallas

Analyst Name :
Lims Id :
Comment :
Method Title :
Sample Name : 7327-4 SG 8020/8015
Sample Id :
Sample Type : Sample Amount=0.000000
Bottle No : 47

PEAK INFORMATION

Cal	Flags	RT pane	RT Corr	RT Exp	Area u*s	ug/L-ug/Kg	Peak name	RF slope	RF intercept
		2.139	2.139	2.260	9374	1.55	Methyl tert-Butyl Ether	0.0034	0.0000
		3.726	3.726	3.748	1497	0.03	Benzene	0.0280	0.0000
I		3.997	3.997	4.006	1766102		FLUOROBENZENE	1.0000	0.0000
		5.854	5.854	5.901	2527	0.06	Toluene	0.0254	0.0000
		8.272	8.272	8.202	3533	0.09	Ethyl benzene	0.0226	0.0000
		8.503	8.503	8.407	18913	0.41	m,p-xylenes	0.0258	0.0000
		9.023	9.023	9.080	6452	0.16	o-Xylenes	0.0223	0.0000
S		10.001	10.001	10.020	3654447	52.31	Bromofluorobenzene	0.0396	0.0000

Totals

Unknowns	1214699	N/A
Quantified	5463844	54.61

Grand Total 2677543 54.61

MISSING PEAKS

No missing peaks.

PEAK GROUP INFORMATION

Area uVs	ug/L-ug/Kg	Peak name
25364	0.58	Xylenes

ANALYSIS SUMMARY

Method..... VOA04
Run sequence..... VOA
Calibration..... BTX0703
Internal standard % calibration using area
Calibration last modified on 10-JUL-1996 at 09:58

Uncalibrated peaks use user factor (0.0000)

FORM 1
8020 ORGANICS ANALYSIS DATA SHEET

WWC SAMPLE NO.

CPG-2

Lab Name: INCHCAPE TESTING SERVICES Contract:

Lab Code: Case No.: SAS No.: SDG No.: BTX7327

Matrix: (soil/water) SOIL Lab Sample ID: 7327-5

Sample wt/vol: 5.0 (g/mL) G Lab File ID: 10JUL1302

Level: (low/med) LOW Date Received: 07/03/96

% Moisture: 22 Date Analyzed: 07/10/96

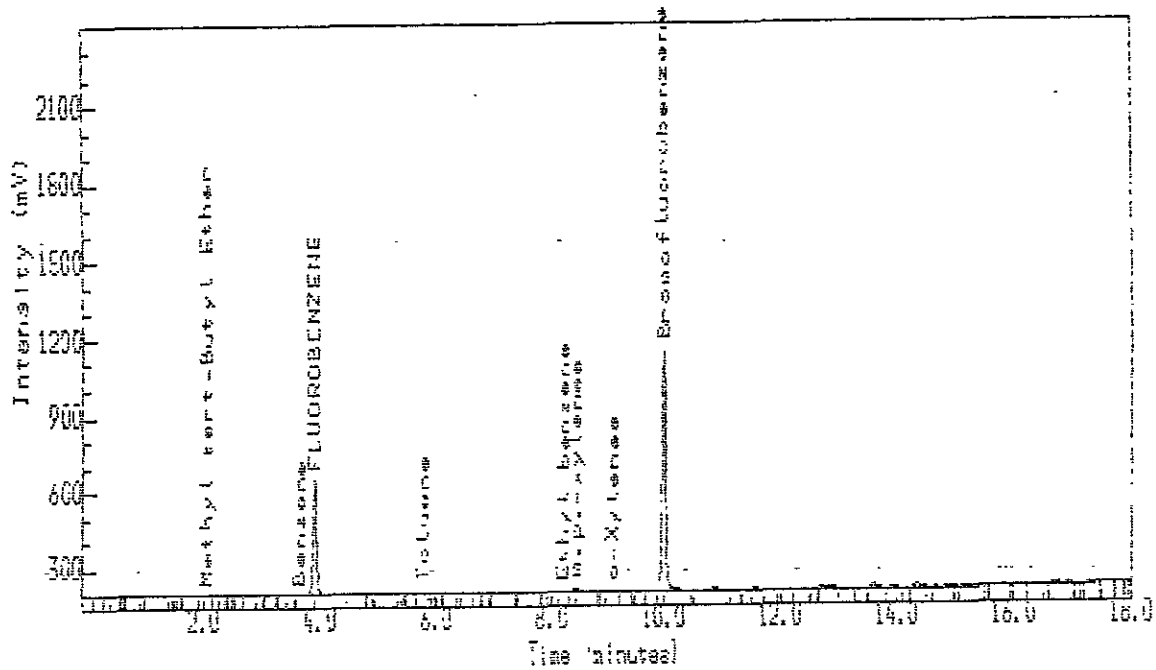
GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
71-43-2	Benzene	2.6	U
108-88-3	Toluene	2.6	U
100-41-4	Ethyl benzene	2.6	U
108-38-3	m.p.-xylenes	2.6	U
95-47-6	o-Xylenes	2.6	U

Injection Report

Acquired on 10-JUL-1996 at 13:02



Inchcape Testing Services - Dallas

Analyst Name :
Lims Id :
Comment :
Method Title :
Sample Name : 7327-5 SG 8020/8015
Sample Id :
Sample Type : Sample Amount=0.00000
Bottle No : 45

PEAK INFORMATION

Cal Flags	RT mins	RT Corr RT	Exp	Area uVs	ug/L-ug/kg	Peak name	PF slope	RF intercept
	2.139	2.139	2.150	5422	0.86	Methyl tert-Butyl Ether	0.0134	0.0000
	3.726	3.726	3.748	3873	0.08	Benzene	0.0280	0.0000
I	3.997	3.997	4.006	1835597		FLUOROBENZENE	1.0000	0.0000
	5.859	5.859	5.901	22532	0.48	Toluene	0.0254	0.0000
	8.281	8.281	8.202	10268	0.25	Ethyl benzene	0.0226	0.0000
	8.486	8.486	8.407	82465	1.74	m,p-Xylenes	0.0258	0.0000
	9.130	9.130	9.060	21633	0.53	o-Xylenes	0.0222	0.0000
D	10.001	10.001	10.020	38e8936	53.29	Bromofluorobenzene	0.0296	0.0000

value

Totals		
Unknowns	1691581	N/A
Quantified	5850725	57.22

MRS 7.11.96

Grand Total	7542306	57.22

MISSING PEAKS

No missing peaks.

PEAK GROUP INFORMATION

Area uVs	ug/L-ug/Kg	Peak name
104098	2.27	Xylenes

ANALYSIS SUMMARY

Method..... VOA8A1
Run sequence..... VOA
Calibration..... BTX0703
Internal standard % calibration using area
Calibration last modified on 10-JUL-1996 at 09:58

Uncalibrated peaks use user factor (0.0000)

FORM 1
8020 ORGANICS ANALYSIS DATA SHEET

WWC SAMPLE NO.

MOP-1

Lab Name: INCHCAPE TESTING SERVICES Contract:

Lab Code: Case No.: SAS No.: SDG No.: BTX7327

Matrix: (soil/water) SOIL Lab Sample ID: 7327-6

Sample wt/vol: 5.0 (g/mL) G Lab File ID: 10JUL0708

Level: (low/med) LOW Date Received: 07/03/96

% Moisture: 14 Date Analyzed: 07/10/96

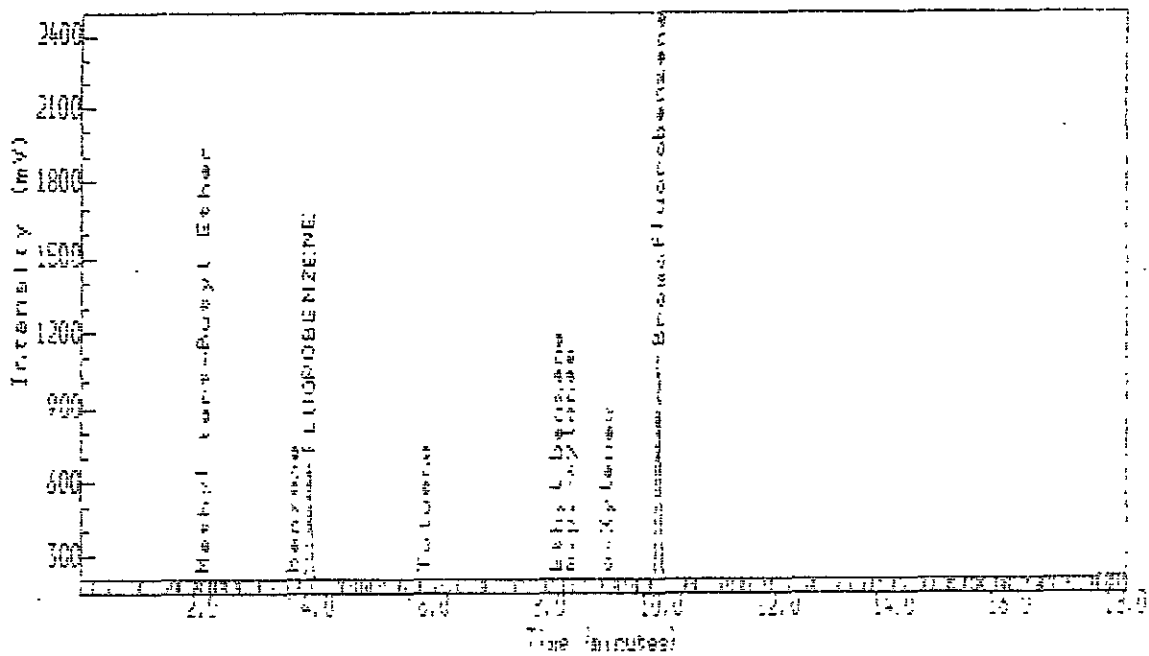
GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
71-43-2	Benzene	2.3	U
108-88-3	Toluene	2.3	U
100-41-4	Ethyl benzene	2.3	U
108-38-3	m.p.-xylenes	2.3	U
95-47-6	o-Xylenes	2.3	U

Injection Report

Acquired on 10-JUL-1996 at 07:08



Inchcape Testing Services - Harlow

Analyst Name :
Lims Id :
Comment :
Method Title :
Sample Name : 7327-6 5G 8020/8015
Sample Id :
Sample Type : Sample Amount=0.000000
Bottle No : 37

PEAK INFORMATION

Cal	Flags	RT mins	RT Corr	RT Exp	Area uVs	ug/L-ug/Kg	Peak name	RF slope	RF intercept
		2.117	2.117	2.250	2563	0.28	Methyl tert-Butyl Ether	0.0034	0.0000
		3.672	3.672	3.594	3229	0.06	Benzene	0.0280	0.0000
I		3.943	3.943	4.000	1995533		FLUOROBENZENE	1.0000	0.0000
		5.939	5.939	5.901	7421	0.15	Toluene	0.0254	0.0000
		8.223	8.223	8.200	2126	0.04	Ethyl benzene	0.0226	0.0000
		8.437	8.437	8.407	13385	0.26	m,p-xylenes	0.0258	0.0000
		9.081	9.081	9.080	4637	0.10	o-Xylenes	0.0223	0.0000
		9.939	9.939	10.020	3e96845	47.04	Bromofluorobenzene	0.0396	0.0000

Totals

Unknowns	233520	N/A
Quantified	5718740	48.08
Grand Total	5952261	48.08

MISSING PEAKS

No missing peaks.

PEAK GROUP INFORMATION

Area uVs	ug/L-ug/Kg	Peak name
18022	0.37	Xylenes

ANALYSIS SUMMARY

Method..... VOA8A1
Run sequence..... VOA
Calibration..... STA0703
Internal standard % calibration using area
Calibration last modified on 10-JUL-1996 at 07:09

Uncalibrated peaks use user factor (0.0000)

FORM 1
8020 ORGANICS ANALYSIS DATA SHEET

WWC SAMPLE NO.

MOP-2

Lab Name: INCHCAPE TESTING SERVICES Contract:

Lab Code: Case No.: SAS No.: SDG No.: BTX7327

Matrix: (soil/water) SOIL Lab Sample ID: 7327-7

Sample wt/vol: 5.0 (g/mL) G Lab File ID: 10JUL1237

Level: (low/med) LOW Date Received: 07/03/96

% Moisture: 11 Date Analyzed: 07/10/96

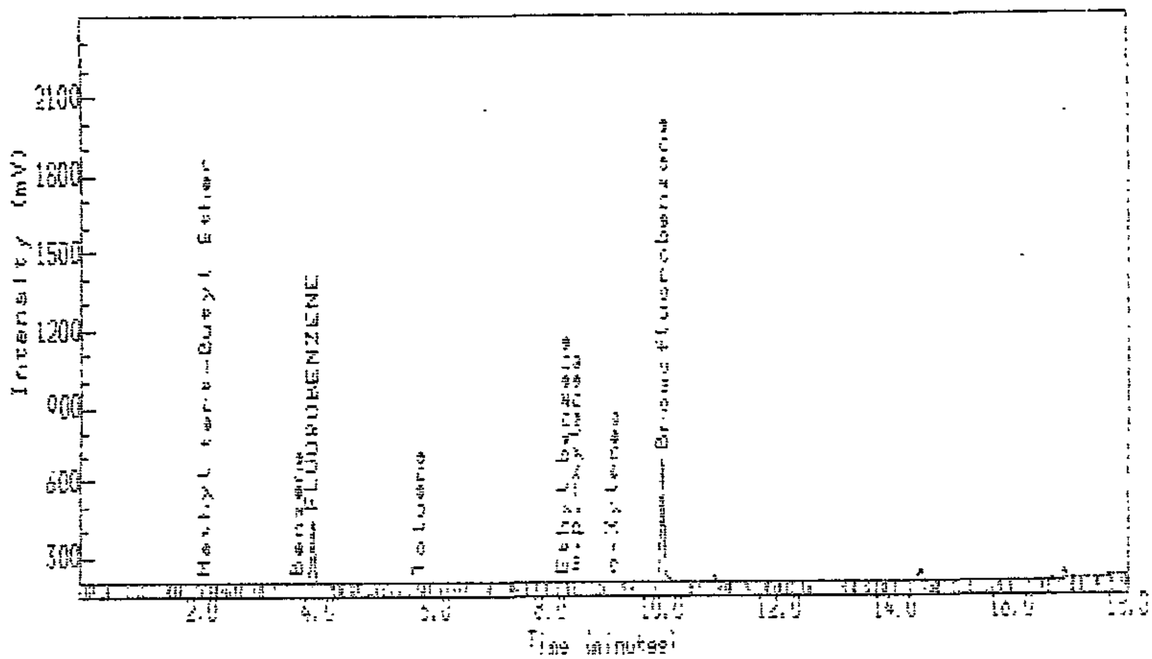
GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
71-43-2	Benzene	2.2	U
108-88-3	Toluene	2.2	U
100-41-4	Ethyl benzene	2.2	U
108-38-3	m.p.-xylenes	2.2	U
95-47-6	o-Xylenes	2.2	U

Injection Report

Acquired on 10-JUL-1996 at 12:37



Inchcape Testing Services - Dallas

Analyst Name :
Lims Id :
Comment :
Method Title :
Sample Name : 7327-7 59 8020/8015
Sample Id :
Sample Type : Sample Amount=0.00000
Bottle No : 44

Rept CSN ~~Conf only~~ (conf #39)
LP ~~RE~~ MKs 7-10-96

PEAK INFORMATION

Cal Flags	RT mins	RT Corr	RT Exp	Area uVs	ug/L-ug/Kg	Peak name	RF slope	RF intercept
	2.139	2.139	2.230	3097	0.88	methyl tert-Butyl Ether	0.0024	0.0000
	3.726	3.726	3.748	1779	0.06	Benzene	0.0260	0.0000
I	3.997	3.997	4.006	1029821		FLUOROBENZENE	1.0000	0.0000
	8.303	8.303	8.202	2120	0.09	Ethyl benzene	0.0225	0.0000
	8.494	8.494	8.407	19175	0.72	m,p,-xylenes	0.0258	0.0000
	9.139	9.139	9.080	7227	0.31	o-Xylenes	0.0222	0.0000
	10.006	10.006	10.020	1945528	47.50	Bromofluorobenzene	0.0396	0.0000

Totals		
Unknowns	843934	N/A
Quantified	3007748	49.87
Grand Total	3851682	49.87

MISSING PEAKS

No missing peaks.

PEAK GROUP INFORMATION

Area uVs	ug/L-ug/kg	Peak name
26402	1.04	Xylenes

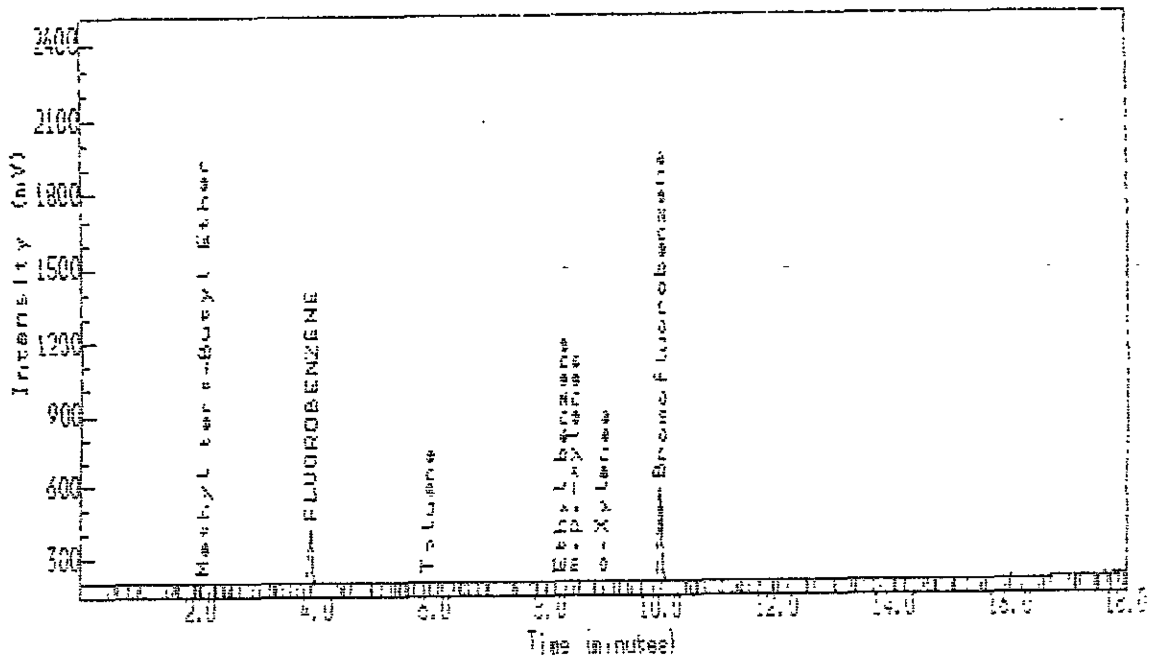
ANALYSIS SUMMARY

Method..... V0AUA1
Run sequence..... V0A
Calibration..... STX0703
Internal standard % calibration using area
Calibration last modified on 10-JUL-1996 at 09:58

Uncalibrated peaks use user factor (1.0000)

Injection Report

Acquired on 10-JUL-1996 at 07:59



Inchcape Testing Services - Dallas

Analyst Name :
Lims Id :
Comment :
Method Title :
Sample Name : 7327-7 SG 8020/8015
Sample Id :
Sample Type : Sample Amount=0.00000
Bottle No : 39

Rept CSN (LF RR — Act#49 for conf) mbs 7.10.96

See run# 49 for conf only JCH 7-12-96

PEAK INFORMATION

Cal Flags	RT mins	RT Corr	RT Exp	Area uVs	ug/L-ug/Kg	Peak name	RF slope	RF intercept
	2.134	2.134	2.260	5499	1.83	Methyl tert-Butyl Ether	0.0034	0.0000
I	3.979	3.979	4.006	878701		FLUOROBENZENE	1.0000	0.0000
	5.974	5.974	5.901	2743	0.12	Toluene	0.0254	0.0000
	8.259	8.259	8.202	3710	0.19	Ethyl benzene	0.0226	0.0000
	8.477	8.477	8.407	6894	0.30	m,p.-xylenes	0.0258	0.0000
	8.979	8.979	9.080	4755	0.24	o-Xylenes	0.0223	0.0000
	9.974	9.974	10.020	1538253	44.25	Bromofluorobenzene	0.0396	0.0000

Totals		
Unknowns	531015	N/A
Quantified	2440555	46.94
Grand Total	2971571	46.94

MISSING PEAKS

RT mins	Peak name
3.594	Benzene

PEAK GROUP INFORMATION

Area uVs	ug/L-ug/Kg	Peak name
1649	0.55	Xylenes

ANALYSIS SUMMARY

Method..... V0A04
Run sequence..... V0A
Calibration..... B1X0703
Internal standard % calibration using area
Calibration last modified on 10-JUL-1996 at 07:09

Uncalibrated peaks use user factor (0.0000)

FORM 1
8020 ORGANICS ANALYSIS DATA SHEET

WWC SAMPLE NO.

DP-1

Lab Name: INCHCAPE TESTING SERVICES Contract:

Lab Code: Case No.: SAS No.: SDG No.: BTX7327

Matrix: (soil/water) SOIL Lab Sample ID: 7327-8

Sample wt/vol: 25.0 (g/mL) G Lab File ID: 11JUL1106

Level: (low/med) LOW Date Received: 07/03/96

% Moisture: 15 Date Analyzed: 07/11/96

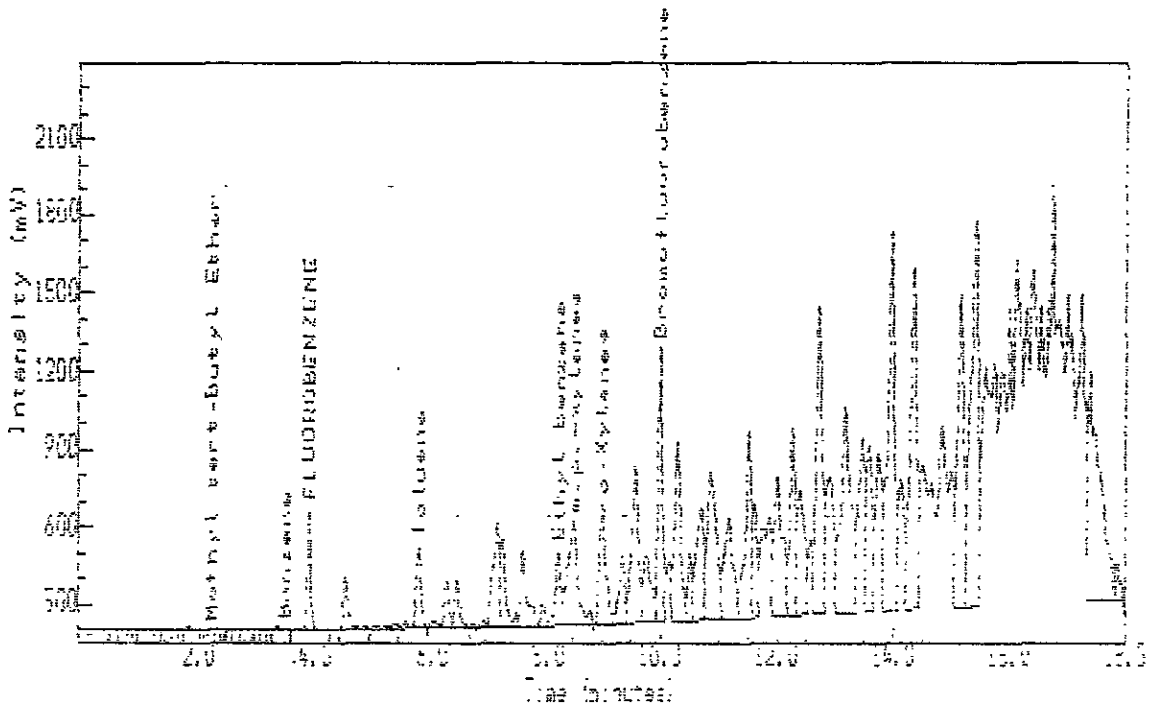
GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 5.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
71-43-2	Benzene	11.8	U
108-88-3	Toluene	203	
100-41-4	Ethyl benzene	243	
108-38-3	m.p.-xylenes	530	
95-47-6	o-Xylenes	477	

Injection Report

Acquired on 11-JUL-1996 at 11:06



Inchcape Testing Services - Dallas

Analyst Name :
Lims Id :
Comment : PURGEABLE AROMATICS BY PID/FID
Method Title :
Sample Name : 7027-BK 1/5 8020
Sample Id :
Sample Type : Sample Amount=0.000000
Bottle No : 33

PEAK INFORMATION

Cal	Flags	RT mins	RT Corr	RT Exp	Area uVs	ug/L-ug/kg	Peak name	RF slope	RF intercept
		3.294	3.294	3.260	1442	1.05	Methyl tert-Butyl Ether	0.0034	0.0000
		3.566	3.566	3.534	11380	1.02	Benzene	0.0130	0.0000
I		3.983	3.983	4.006	999379		FLUOROBENZENE	1.0000	0.0000
		5.850	5.850	5.819	1760064	173.37	Toluene	3.0254	0.0000
		8.254	8.254	8.242	1974419	207.31	Ethyl benzene	0.0225	0.0000
		8.517	8.517	8.487	4659902	451.31	m,p-xylenes	0.0258	0.0000
		9.006	9.006	9.080	3625220	405.84	o-xylenes	0.0223	0.0000
S		4.988	4.988	10.020	51a744c	32a.67	Bromofluorobenzene	0.0394	0.0000

Totals

Quantified	19099252	1566.47
Grand Total	1e5766592	1566.47

MISSING PEAKS

No missing peaks.

PEAK GROUP INFORMATION

Area uVs	ug/l-ug/Kg	Peak name
9255122	567.15	Xylenes

ANALYSIS SUMMARY

Method.....V0A04A1
Run sequence.....V0A1
Calibration.....5FX0700
Internal standard % calibration using area
Calibration last modified on 11-JUL-1996 at 14:30

Uncalibrated peaks use user factor (1.000)

FORM 1
8020 ORGANICS ANALYSIS DATA SHEET

WWC SAMPLE NO.

DP-2

Lab Name: INCHCAPE TESTING SERVICES Contract:

Lab Code: Case No.: SAS No.: SDG No.: BTX7327

Matrix: (soil/water) SOIL Lab Sample ID: 7327-9

Sample wt/vol: 5.0 (g/mL) G Lab File ID: 10JUL0822

Level: (low/med) LOW Date Received: 07/03/96

% Moisture: 18 Date Analyzed: 07/10/96

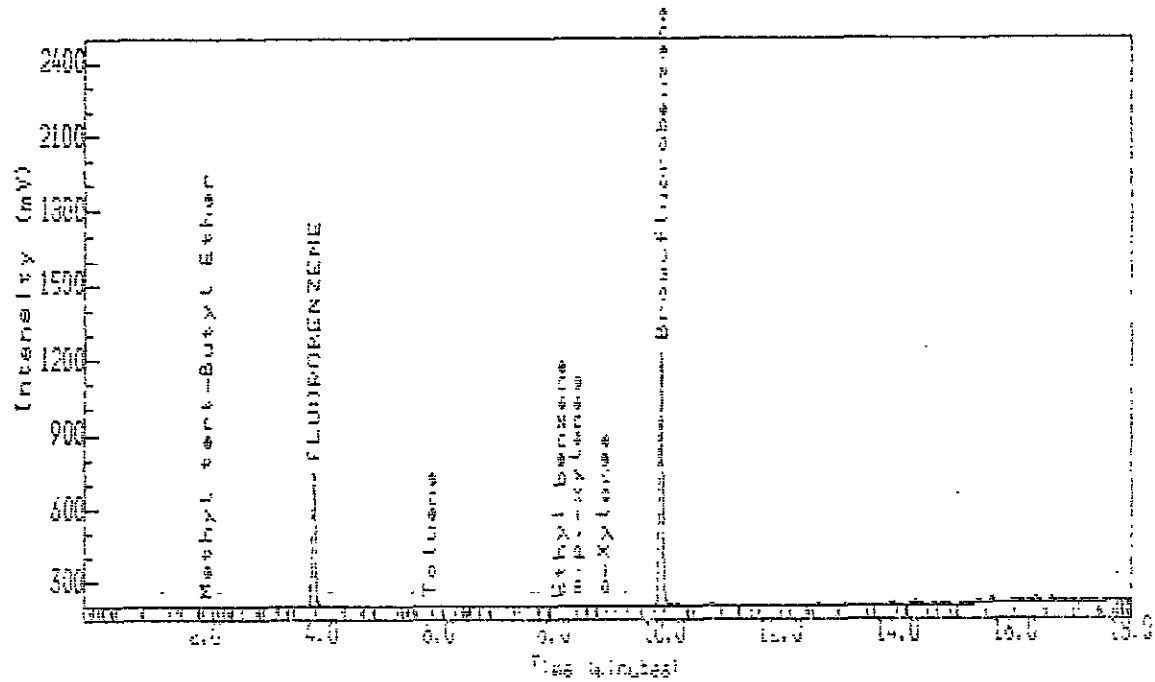
GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
71-43-2	Benzene	2.4	U
108-88-3	Toluene	2.4	U
100-41-4	Ethyl benzene	2.4	U
108-38-3	m.p.-xylenes	2.4	U
95-47-6	o-Xylenes	2.4	U

Injection Report

Acquired on 10-JUL-1996 at 08:22



Ingcape Testing Services - Dallas

Analyst Name :
Lims Id :
Comment :
Method Title :
Sample Name : 7327-9 5G 8020/8015
Sample Id :
Sample Type : Sample Amount=0.00000
Bottle No : 40

PEAK INFORMATION

Cal Flags	RT mins	RT Corr	RT Exp	Area uVs	ug/L-ug/kg	Peak name	RF slope	RF intercept
	2.117	2.117	2.260	3610	0.46	Methyl tert-Butyl Ether	0.0034	0.0000
I	3.957	3.957	4.006	2295528		FLUOROBENZENE	1.0000	0.0000
	5.952	5.952	5.901	10560	0.18	Toluene	0.0254	0.0000
	8.206	8.206	8.202	17482	0.34	Ethyl benzene	0.0225	0.0000
	8.459	8.459	8.407	62588	1.06	m,p-Xylenes	0.0258	0.0000
	8.961	8.961	9.080	37781	0.74	o-Xylenes	0.0223	0.0000
	9.939	9.939	10.020	4228506	46.77	Bromofluorobenzene	0.0396	0.0000

value

Totals		
Unknowns	2020224	N/A
Quantified	5646054	49.55
Grand Total	5666278	49.55

MLH 7-11-96

MISSING PEAKS

RT mins	Peak name
3.594	Benzene

PEAK GROUP INFORMATION

Area uVs	ug/L-ug/kg	Peak name
100367	1.90	Xylenes

ANALYSIS SUMMARY

Method..... VOAOA1
Run sequence..... VOA
Calibration..... BTX0703
Internal standard % calibration using area
Calibration last modified on 10-JUL-1996 at 07:09

Uncalibrated peaks use user factor (0.0000)

FORM 1
8020 ORGANICS ANALYSIS DATA SHEET

WWC SAMPLE NO.

OGP-1

Lab Name: INCHCAPE TESTING SERVICES Contract:

Lab Code: Case No.: SAS No.: SDG No.: BTX7327

Matrix: (soil/water) SOIL Lab Sample ID: 7327-10

Sample wt/vol: 5.0 (g/mL) G Lab File ID: 10JUL0732

Level: (low/med) LOW Date Received: 07/03/96

% Moisture: 19 Date Analyzed: 07/10/96

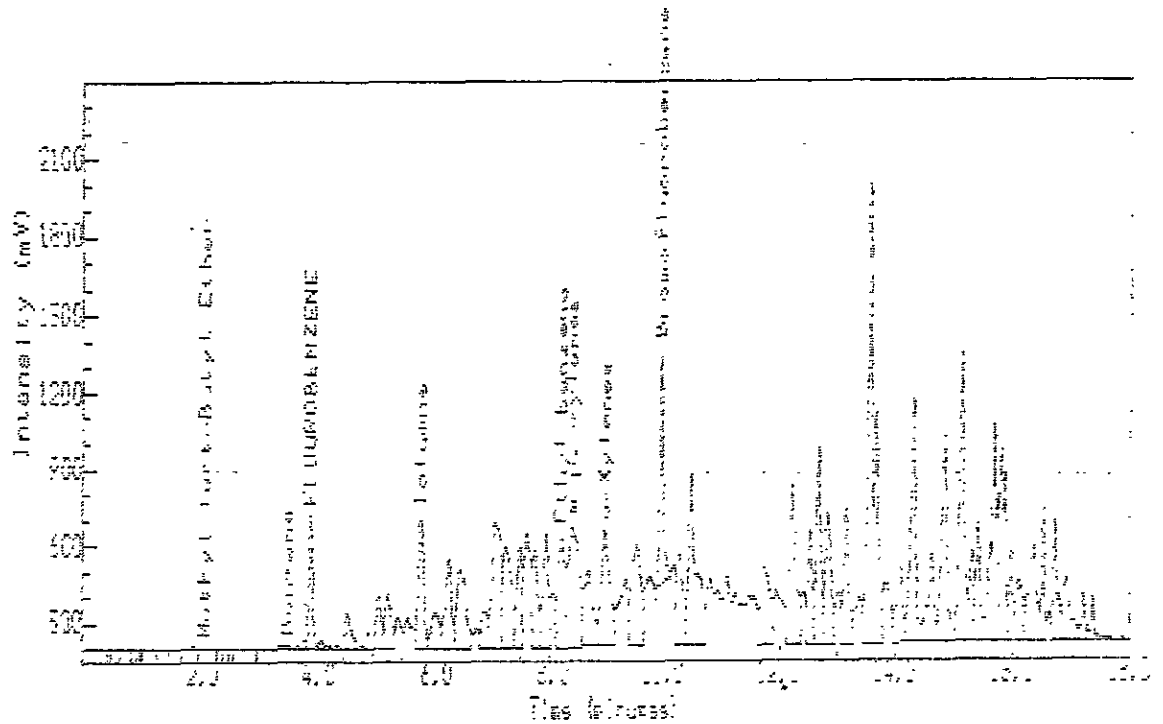
GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
71-43-2	Benzene	2.5	U
108-88-3	Toluene	68	
100-41-4	Ethyl benzene	96	
108-38-3	m.p.-xylenes	123	
95-47-6	o-Xylenes	114	

Injection Report

Acquired on 10-JUL-1996 at 07:32



Inchcape Testing Services - Dallas

Analyst Name :
Line Id :
Comment :
Method Title :
Sample Name : 7027-10 TO 8020/8015
Sample Id :
Sample Type : Sample Amount=0.00000
Bottle No : 38

7-11-96

PEAK INFORMATION

Cal	Flags	RT mins	RT Corr RT	Exp RT	Area uVs	ug/L-ug/Kg	Peak name	RF slope	RF intercept
		2.117	2.117	2.260	11064	1.49	Methyl tert-Butyl Ether	0.0004	0.0000
		3.648	3.648	3.814	67942	1.12	Benzene	0.0280	0.0000
I		3.952	3.952	4.006	1224711		FLUOROBENZENE	1.0000	0.0000
		5.814	5.814	5.818	3106823	84.97	Toluene	0.0254	0.0000
		8.223	8.223	8.202	3696355	77.50	Ethyl benzene	0.0226	0.0000
		8.406	8.406	8.407	5737807	99.66	m,p,-xylenes	0.0252	0.0000
		8.974	8.974	9.050	4568145	91.92	o-Xylenes	0.0253	0.0000
		9.952	9.952	10.020	4073478	46.29	Bromofluorobenzene MI - due to	0.0396	0.0000

Unknowns	136491472	N/A
Quantified	23690626	373.17
Grand Total	160182096	373.17

MISSING PEAKS

No missing peaks.

PEAK GROUP INFORMATION

Area uVs	ug/L-ug/Kg	Peak name
10205952	151.80	Xylenes

ANALYSIS SUMMARY

Method.............................. [illegible]
Run sequence........................ [illegible]
Calibration......................... [illegible]
Internal standard % calibration [illegible]
Calibration last modified on [illegible]

Uncalibrated peaks use user factor (0.0000)

FORM 1
8020 ORGANICS ANALYSIS DATA SHEET

WWC SAMPLE NO.

OGP-2

Lab Name: INCHCAPE TESTING SERVICES Contract:

Lab Code: Case No.: SAS No.: SDG No.: BTX7327

Matrix: (soil/water) SOIL Lab Sample ID: 7327-11

Sample wt/vol: 5.0 (g/mL) G Lab File ID: 10JUL2021

Level: (low/med) LOW Date Received: 07/03/96

% Moisture: 19 Date Analyzed: 07/10/96

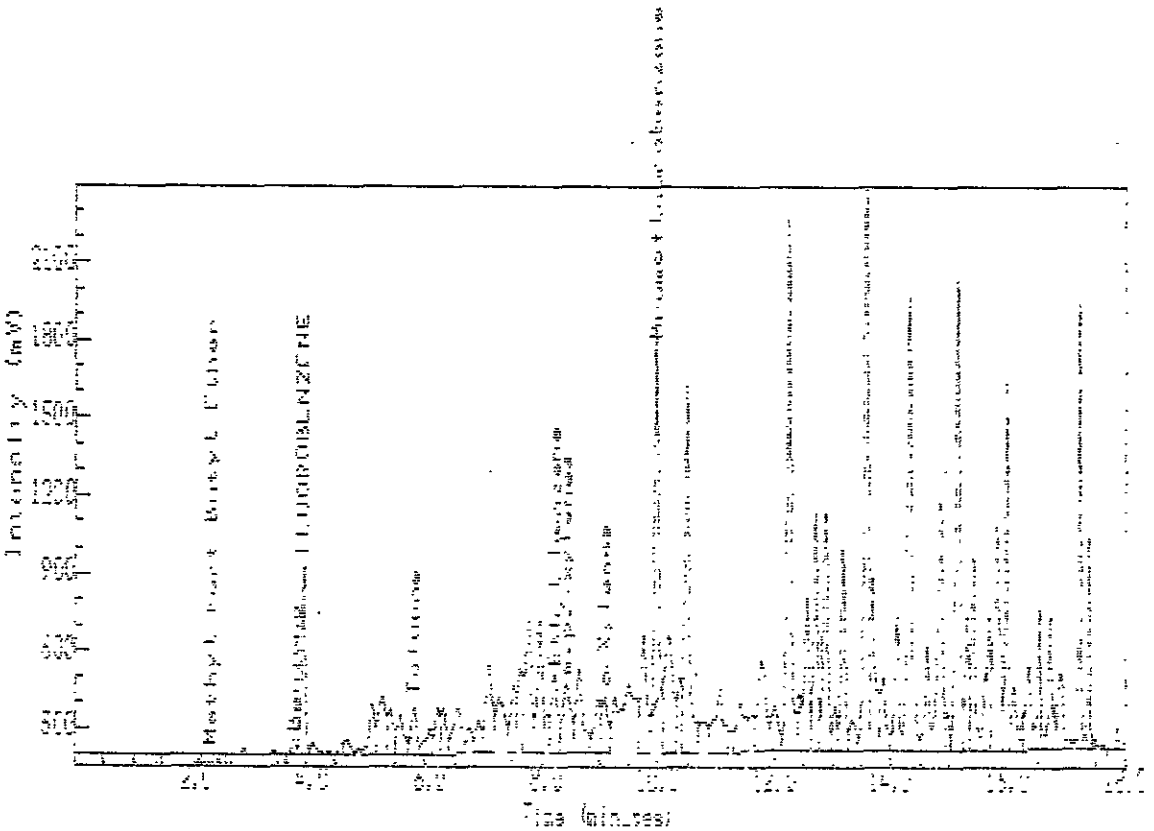
GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 50.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
71-43-2	Benzene	202	
108-88-3	Toluene	858	
100-41-4	Ethyl benzene	2140	
108-38-3	m.p.-xylenes	1854	
95-47-6	o-Xylenes	1359	

Program Report

Acquired on 10-JUL-1996 at 20:31



Chemsite Testing Services - Dallas

Analyst Name :
Lims Id :
Comment :
Method Title :
Sample Name : 7227-11 1/50 8020/8015
Sample Id :
Sample Type : Sample Amount=0.00000
Bottle No : 56

PEAK INFORMATION

Cal	Flags	RT mins	RT Corr	RT exp	Area uVs	ug/L-ug/Kg	Peak name	RF slope	RF intercept
		2.352	2.352	2.260	253	1.17	Methyl tert-Butyl Ether	0.0034	0.0000
		3.801	3.801	3.748	269078	163.73	Benzene	0.0280	0.0000
I		3.948	3.948	4.006	3149628		FLUOROBENZENE	1.0000	0.0000
		5.823	5.823	5.901	1113052	694.96	Toluene	0.0254	0.0000
		8.232	8.232	8.202	2466947	1733.49	Ethyl Benzene	0.0226	0.0000

[070896] 27 VOA0709966,67,1
Reported on 11-JUL-1996 at 07:58

Cal Flags	RT mins	RT Corr	RT Exp	Area uVs	ug/L-ug/Kg	Peak name	SS slope	Rt intercept
0	9.760	9.766	10.020	6147335	2460.95	Bromofluorobenzene	[illegible]	[illegible]

NI - due to interference of surrogate.

MS 7-11-96

Totals		
Unknowns	163779440	N/A
Quantified	17160826	7663.63
Grand Total	180939760	7663.63

MISSING PEAKS

No missing peaks.

PEAK GROUP INFORMATION

Area uVs	ug/L-ug/Kg	Peak name
3990013	2223.41	Xylenes

ANALYSIS SUMMARY

Method..... VOA8021
Run sequence..... VQ4
Calibration..... 3770706
Internal standard % calibration using area
Calibration last modified on 10-JUL-1996 at 09:18

Uncalibrated peaks use user factor (0.0000)

FORM 1
8020 ORGANICS ANALYSIS DATA SHEET

WWC SAMPLE NO.

OGP-3

Lab Name: INCHCAPE TESTING SERVICES Contract:

Lab Code: Case No.: SAS No.: SDG No.: BTX7327

Matrix: (soil/water) SOIL Lab Sample ID: 7327-12

Sample wt/vol: 5.0 (g/mL) G Lab File ID: 10JUL1731

Level: (low/med) LOW Date Received: 07/03/96

% Moisture: 20 Date Analyzed: 07/10/96

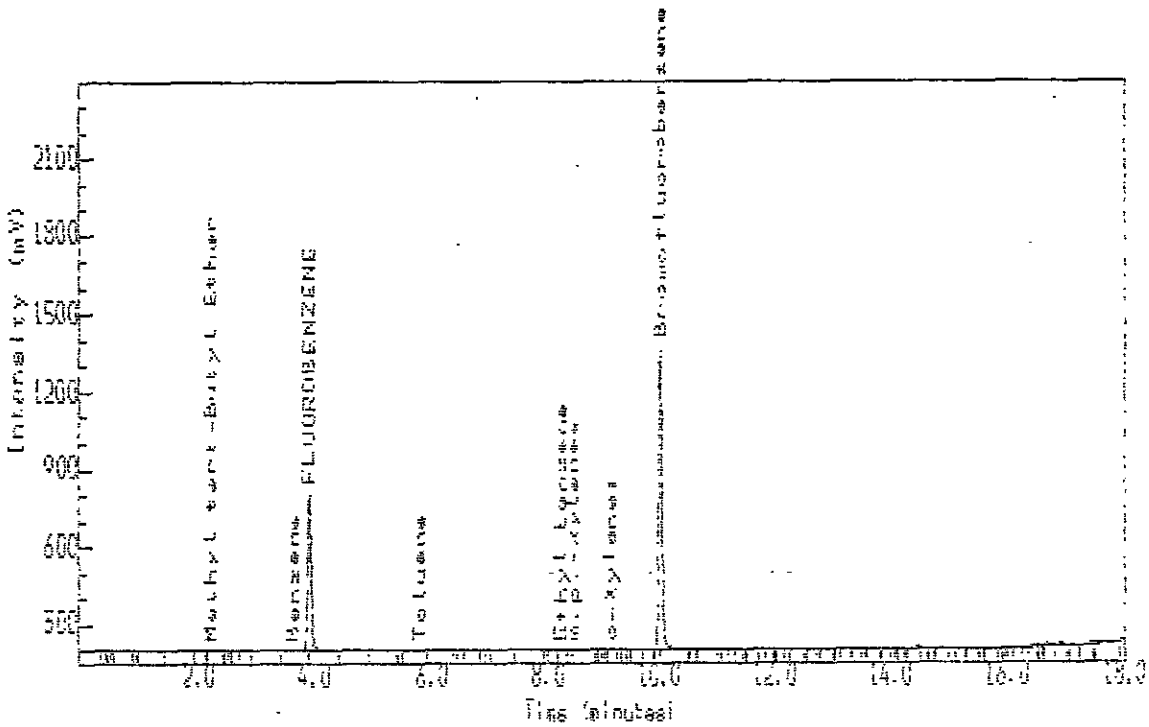
GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
71-43-2	Benzene	2.5	U
108-88-3	Toluene	2.5	U
100-41-4	Ethyl benzene	2.5	U
108-38-3	m.p.-xylenes	2.5	U
95-47-6	o-Xylenes	2.5	U

Injection Report

Acquired on 10-JUL-1996 at 17:31



Inchcape Testing Services - Dallas

Analyst Name :
Lims Id :
Comment :
Method Title :
Sample Name : 7327-12 SB 8020/8015
Sample Id :
Sample Type : Sample Amount=0.00000
Bottle No : 52

PEAK INFORMATION

Cal	Flags	RT mine	RT Corr	RT Exp	Area u*s	ug/L-ug/Kg	Peak name	%F slope	AF intercept
		3.308	3.308	2.260	4382	0.51	Methyl tert-Butyl Ether	0.0034	0.0000
		3.734	3.734	3.748	3904	0.04	Benzene	0.0380	0.0000
I		4.010	4.010	4.006	24965a7		FLUOROBENZENE	1.0000	0.0000
		8.317	8.317	8.202	1926	0.03	Ethyl benzene	0.0226	0.0000
		8.521	8.521	8.407	10598	0.16	m,p-Xylenes	0.0258	0.0000
		9.152	9.152	9.080	2012	0.04	o-Xylenes	0.0223	0.0000
D		10.019	10.019	10.020	4805454	48.66	Bromofluorobenzene	0.0396	0.0000

Totals

Unknowns	391346	N/A

Quantified	7323844	49.45
Grand Total	7715190	49.45

MISSING PEAKS

No missing peaks.

PEAK GROUP INFORMATION

Area uVs	ug/L-ug/kg	Peak name
12613	0.30	Xylenes

ANALYSIS SUMMARY

Method..... VOA0A1
Run sequence..... VOA
Calibration..... BTX0703
Internal standard % calibration using area
Calibration last modified on 10-JUL-1996 at 09:58

Uncalibrated peaks use user factor (0.0000)

FORM 1
8020 ORGANICS ANALYSIS DATA SHEET

WWC SAMPLE NO.

DSTP-1

Lab Name: INCHCAPE TESTING SERVICES Contract:

Lab Code: Case No.: SAS No.: SDG No.: BTX7327

Matrix: (soil/water) SOIL Lab Sample ID: 7327-13

Sample wt/vol: 5.0 (g/mL) G Lab File ID: 10JUL1619

Level: (low/med) LOW Date Received: 07/03/96

% Moisture: 16 Date Analyzed: 07/10/96

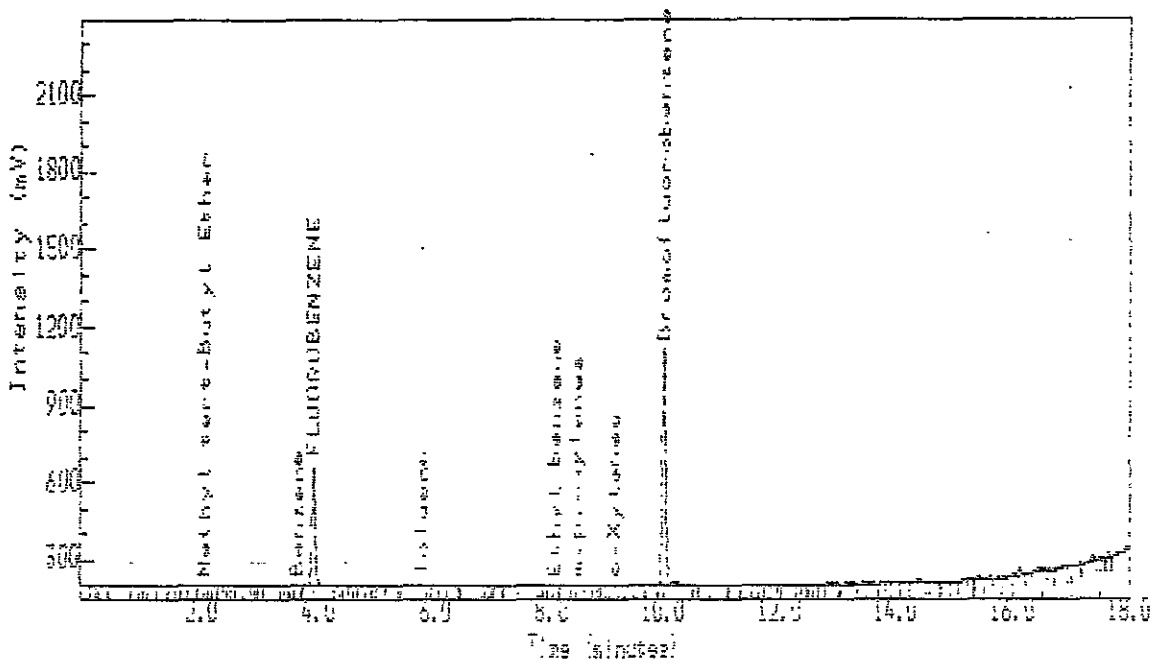
GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
71-43-2	Benzene	2.4	U
108-88-3	Toluene	2.4	U
100-41-4	Ethyl benzene	2.4	U
108-38-3	m.p.-xylenes	2.4	U
95-47-6	o-Xylenes	2.4	U

Injection Report

Acquired on 10-JUL-1996 at 16:19



Inchcape Testing Services - Dallas

Analyst Name :
Lims Id :
Comment :
Method Title :
Sample Name : 7327-13 5G 8020/~~8415~~
Sample Id :
Sample Type : Sample Amount=0.00000
Bottle No : 51

PEAK INFORMATION

Cal Flags	RT mins	RT Corr RT	Exp	Area (Vs	ug/L-ug/Kg	Peak name	RF slope	RF intercept
	2.143	2.143	2.260	1173	0.18	Methyl tert-Butyl Ether	0.0034	0.0000
	3.739	3.739	3.748	1502	0.03	Benzene	0.0280	0.0000
I	4.006	4.006	4.006	1911389		FLUOROBENZENE	1.0000	0.0000
	5.868	5.868	5.901	659	0.01	Toluene	0.0254	0.0000
	8.521	8.521	8.407	6012	0.12	m,p-xylenes	0.0258	0.0000
	9.152	9.152	9.080	1780	0.04	o-Xylenes	0.0223	0.0000
B	10.014	10.014	10.020	3746639	49.55	Bromofluorobenzene	0.0296	0.0000

Totals

Unknowns	1487220	N/A
Quantified	5669174	49.94
Grand Total	7156393	49.94

MISSING PEAKS

No missing peaks.

PEAK GROUP INFORMATION

Area uVs	ug/L-ug/kg	Peak name
7792	0.16	Xylenes

ANALYSIS SUMMARY

Method..... V0A0A1
Run sequence..... V04
Calibration..... BT70703
Internal standard % calibration using areas
Calibration last modified on 10-JUL-1996 at 09:58

Uncalibrated peaks use user factor (1.0000)

FORM 1
8020 ORGANICS ANALYSIS DATA SHEET

WWC SAMPLE NO.

GPSTP-1

Lab Name: INCHCAPE TESTING SERVICES Contract:

Lab Code: Case No.: SAS No.: SDG No.: BTX7327

Matrix: (soil/water) SOIL Lab Sample ID: 7327-14

Sample wt/vol: 5.0 (g/mL) G Lab File ID: 10JUL1755

Level: (low/med) LOW Date Received: 07/03/96

% Moisture: 16 Date Analyzed: 07/10/96

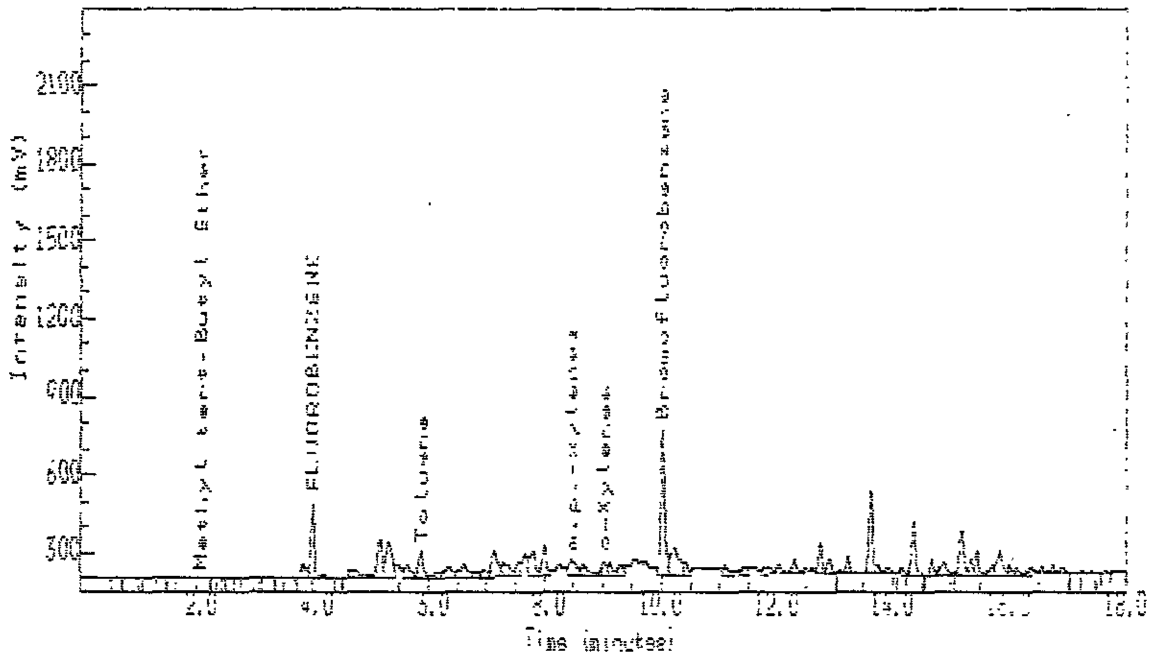
GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
71-43-2	Benzene	2.4	U
108-88-3	Toluene	20.5	
100-41-4	Ethyl benzene	2.4	U
108-38-3	m.p.-xylenes	22.5	
95-47-6	o-Xylenes	15.2	

Injection Report

Acquired on 10-JUL-1996 at 17:55



Inchcape Testing Services - Dallas

Analyst Name :
Lims Id :
Comment :
Method Title :
Sample Name : 7027-14 56 8020/8015
Sample Id :
Sample Type : Sample Amount=0.00000
Bottle No : 52

Rept w CSN
LP
(RR - conf Ch. 27 - VOA071096, 23)
MWS 7-11-96

PEAK INFORMATION

Cal Flags	RT mins	RT Corr	RT Exp	Area uVs	ug/L-ug/Kg	Peak name	RF slope	RF intercept
	2.090	2.090	2.260	3475	0.79	Methyl tert-Butyl Ether	0.0034	0.0000
I	4.006	4.006	4.006	1277094		FLUOROBENZENE	1.0000	0.0000
	5.877	5.877	5.901	560286	17.27	Toluene	0.0254	0.0000
	8.472	8.472	8.407	623934	18.92	m.p.-xylenes	0.0258	0.0000
	9.037	9.037	9.080	364109	12.76	o-Xylenes	0.0223	0.0000
0	10.019	10.019	10.020	2742299	54.28	Bromofluorobenzene	0.0596	0.0000

Totals	Area uVs	ug/L-ug/Kg
Unknowns	20544856	N/A
Quantified	5571197	104.03
Grand Total	26116052	104.03

MISSING PEAKS

RT mins	Peak name
3.748	Benzene
8.202	Ethyl benzene

PEAK GROUP INFORMATION

Area uVs	ug/L-ug/Kg	Peak name
988043	31.68	Xylenes

ANALYSIS SUMMARY

Method..... VOAOA1
Run sequence..... VOA
Calibration..... BTX0703
Internal standard & calibration using area
Calibration last modified on 10-JUL-1996 at 09:52

Uncalibrated peaks use user factor (0.0000)

FORM 1
8020 ORGANICS ANALYSIS DATA SHEET

WWC SAMPLE NO.

GPDTP-2

Lab Name: INCHCAPE TESTING SERVICES Contract:

Lab Code: Case No.: SAS No.: SDG No.: BTX7327

Matrix: (soil/water) SOIL Lab Sample ID: 7327-15

Sample wt/vol: 5.0 (g/mL) G Lab File ID: 10JUL1327

Level: (low/med) LOW Date Received: 07/03/96

% Moisture: 18 Date Analyzed: 07/10/96

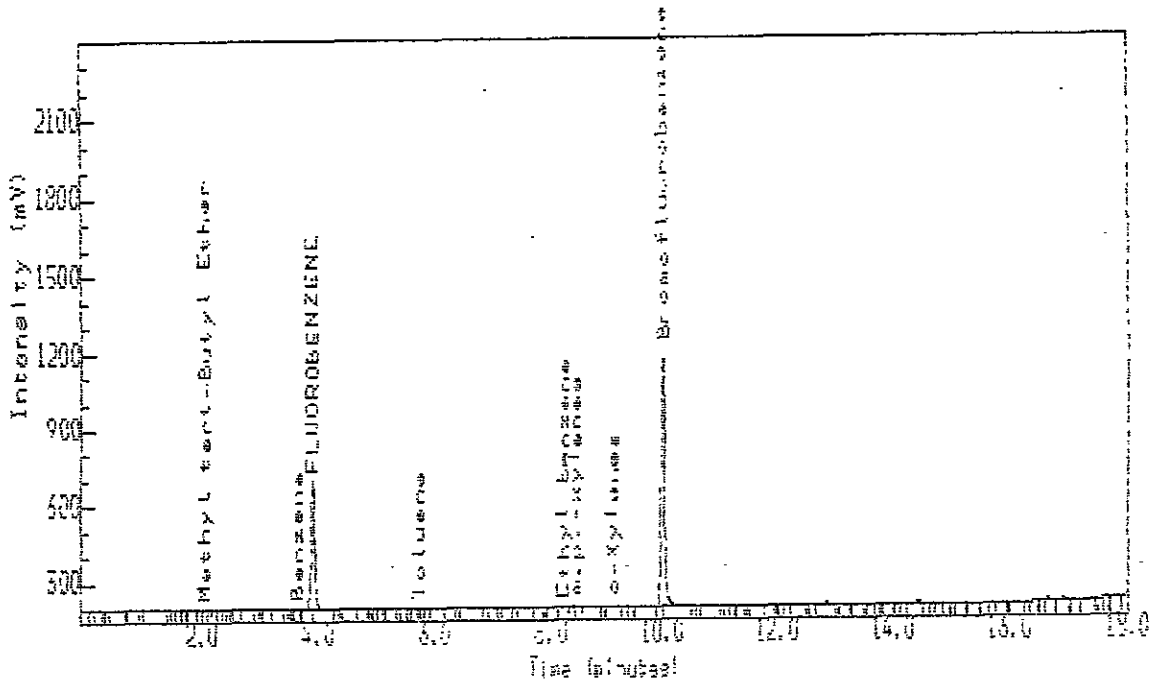
GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
71-43-2	Benzene	2.4	U
108-88-3	Toluene	2.4	U
100-41-4	Ethyl benzene	2.4	U
108-38-3	m.p.-xylenes	2.4	U
95-47-6	o-Xylenes	2.4	U

Injection Report

Acquired on 10-JUL-1996 at 13:27



Inchcape Testing Services - Dallas

Analyst Name :
Lims Id :
Comment :
Method Title :
Sample Name : 7327-15 SG 8020/8015
Sample Id :
Sample Type : Sample Amount=0.00000
Bottle No : 46

PEAK INFORMATION

Cal Flags	RT mins	RT Corr RT	Exp	Area uVs	ug/L-ug/Kg	Peak name	RF slope	RF intercept
	2.143	2.143	2.260	912	0.13	Methyl tert-Butyl Ether	0.0034	0.0000
	3.734	3.734	3.748	2000	0.04	Benzene	0.0290	0.0000
I	3.992	3.992	4.006	2015230		FLUOROBENZENE	1.0000	0.0000
	8.294	8.294	8.202	1643	0.04	Ethyl benzene	0.0226	0.0000
	8.499	8.499	8.407	8340	0.16	m,p-xylenes	0.0258	0.0000
	9.139	9.139	9.080	3623	0.08	o-Xylenes	0.0223	0.0000
B	9.997	9.997	10.020	4013409	50.34	Bromofluorobenzene	0.0396	0.0000

Totals		
Unknowns	349669	N/A
Quantified	6045157	50.79
Grand Total	6354826	50.79

MISSING PEAKS

No missing peaks.

PEAK GROUP INFORMATION

Area uVs	ug/L-ug/Kg	Peak name
11963	0.24	Xylenes

ANALYSIS SUMMARY

Method..... VOA0A1
Run sequence..... VOA
Calibration..... BTX0703
Internal standard % calibration using area
Calibration last modified on 10-JUL-1996 at 09:58

Uncalibrated peaks use user factor (0.000)

FORM 1
8020 ORGANICS ANALYSIS DATA SHEET

WWC SAMPLE NO.

TRIPBLK

Lab Name: INCHCAPE TESTING SERVICES Contract:

Lab Code: Case No.: SAS No.: SDG No.: BTX7327L

Matrix: (soil/water) WATER Lab Sample ID: 7327-16

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: 09JUL1343070

Level: (low/med) LOW Date Received: 07/03/96

% Moisture: Date Analyzed: 07/09/96

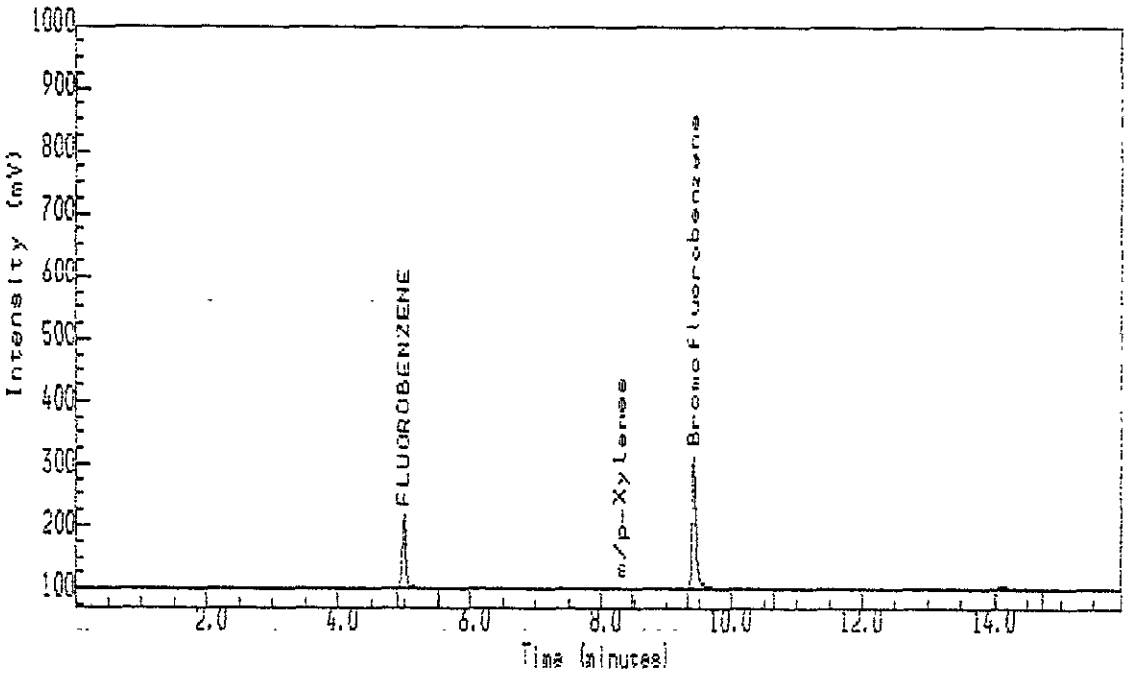
GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) uG/L	Q
71-43-2	Benzene	1.0	U
108-88-3	Toluene	1.0	U
100-41-4	Ethyl benzene	1.0	U
108-38-3	m.p.-xylenes	1.0	U
95-47-6	o-Xylenes	1.0	U

Injection Report

Acquired on 9-JUL-1996 at 13:43



Inchcape Testing Services - Dallas

Analyst Name :
Lims Id :
Comment : PURGEABLE AROMATICS BY PID/FID,INST ID # 3203A40698
Method Title : METHOD 602/8020/UP11 HP 5890/LCS 2000/ALS 2050 DB624 COLUMN
Sample Name : 7327-16 5ML <2 8020
Sample Id :
Sample Type : Sample Amount=0.00000
Bottle No : 8

PEAK INFORMATION

RT mins	RT Corr	RT Exp	Area uVs	ug/L	Peak name	RF slope	RF intercept
4.992	4.992	4.972	458377		FLUOROBENZENE	1.0000	0.0000
8.299	8.299	8.257	4377	0.38	m/p-Xylenes	0.0252	0.0000
9.423	9.423	9.390	892455	52.20	Bromofluorobenzene	0.0373	0.0000

Totals		
Unknowns	63505	N/A
Quantified	1355208	52.58
Grand Total	1418713	52.58

MISSING PEAKS

RT mins	Peak name
3.431	Methyl tert-Butyl Ether
4.768	Benzene
6.490	Toluene
8.099	Ethyl benzene
8.733	O-Xylenes

PEAK GROUP INFORMATION

Area uVs	ug/L	Peak name
4377	0.38	Xylenes

ANALYSIS SUMMARY

Method..... VOAOA1
Run sequence..... VOA
Calibration..... BTX0696
Internal standard calibration using area
Calibration last modified on 5-JUL-1996 at 10:41

Uncalibrated peaks use user factor (0.0000)

Inchcape Testing Services
Environmental Laboratories

TOTAL VOLATILE PETROLEUM HYDROCARBONS DATA

QUALITY CONTROL SUMMARY

FORM 2
SOIL 8015 SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: INCHCAPE TESTING SERVICES Contract:

Lab Code: Case No.: SAS No.: SDG No.: GRO7327

Level: (low/med) LOW

	WWC SAMPLE NO.	SMC1 #	SMC2 #	SMC3 #	OTHER	TOT OUT
01	PBLKLCS		99			0
02	PBLKLCSD		99			0
03	WO-1MS		98			0
04	WO-1MSD		98			0
05	PBLK		99			0
06	WO-1		102			0
07	MOP-1		106			0
08	OGP-1		71			0
09	DP-2		106			0
10	MOP-2		105			0
11	CPG-2		98			0
12	GPSTP-2		99			0
13	CPG-1		95			0
14	OGP-3		102			0
15	GPSTP-1		89			0
16	DP-1		89			0
17						0
18						
19						
20						
21						
22						
23						
24						
25						
26						

ADVISORY
QC LIMITS

S2= FLUOROBENZENE (SS (70-130)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

FORM 2
SOIL 8015 SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: INCHCAPE TESTING SERVICES Contract:

Lab Code: Case No.: SAS No.: SDG No.: GRO7327

Level: (low/med) LOW

	WWC SAMPLE NO.	SMC1 #	SMC2 #	SMC3 #	OTHER	TOT OUT
01	PBLKLCS		100			0
02	PBLKLCSD		99			0
03	WO-1MS		97			0
04	WO-1MSD		99			0
05	PBLK		105			0
06	WO-1		99			0
07	OGP-2		88			0
08						
09						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						

ADVISORY
QC LIMITS

S2= FLUOROBENZENE (SS (70-130)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

FORM 3
8015 MATRIX SPIKE RECOVERY

Lab Name: INCHCAPE TESTING SERVICES Contract:

Lab Code: DALLAS Case No.: SAS No.: SDG No.: GRO7327

Matrix Spike - Client Sample ID: WO-1

COMPOUND	SPIKE ADDED (mg/Kg)	SAMPLE CONCENTRATION (mg/Kg)	MS CONCENTRATION (mg/Kg)	MS % REC #	QC. LIMITS REC.
TPH	2500.0	0.000	2010	80	70-130

COMPOUND	SPIKE ADDED (mg/Kg)	MSD CONCENTRATION (mg/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
TPH	2500.0	2040	81	1	25	70-130

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 1 outside limits
Spike Recovery: 0 out of 2 outside limits

COMMENTS: _____

FORM III 8015

FORM 3
8015 BLANK SPIKE RECOVERY

Lab Name: INCHCAPE TESTING SERVICES Contract:

Lab Code: DALLAS Case No.: SAS No.: SDG No.: GRO7327

Matrix Spike - Client Sample ID: PBLK

COMPOUND	SPIKE ADDED (mg/Kg)	BLANK CONCENTRATION (mg/Kg)	BS CONCENTRATION (mg/Kg)	BS % REC #	QC. LIMITS REC.
TPH	500.0	0.000	406	81.2	70-130

COMPOUND	SPIKE ADDED (mg/Kg)	BSD CONCENTRATION (mg/Kg)	BSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
TPH	500.0	386	77.2	5	25	70-130

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 1 outside limits
Spike Recovery: 0 out of 2 outside limits

COMMENTS: _____

FORM III 8015

FORM 3
8015 MATRIX SPIKE RECOVERY

Lab Name: INCHCAPE TESTING SERVICES Contract:

Lab Code: DALLAS Case No.: SAS No.: SDG No.: GRO7327

Matrix Spike - Client Sample ID: WO-1

COMPOUND	SPIKE ADDED (mg/Kg)	SAMPLE CONCENTRATION (mg/Kg)	MS CONCENTRATION (mg/Kg)	MS % REC #	QC. LIMITS REC.
TPH	2500	35	2130	84	70-130

COMPOUND	SPIKE ADDED (mg/Kg)	MSD CONCENTRATION (mg/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
TPH	2500	2165	85	1	25	70-130

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 1 outside limits
Spike Recovery: 0 out of 2 outside limits

COMMENTS: _____

FORM III 8015

FORM 3
8015 BLANK SPIKE RECOVERY

Lab Name: INCHCAPE TESTING SERVICES Contract:

Lab Code: DALLAS Case No.: SAS No.: SDG No.: GRO7327

Matrix Spike - Client Sample ID: PBLK

COMPOUND	SPIKE ADDED (mg/Kg)	BLANK CONCENTRATION (mg/Kg)	BS CONCENTRATION (mg/Kg)	BS % REC #	QC. LIMITS REC.
TPH	500.0	0.000	421	84	70-130

COMPOUND	SPIKE ADDED (mg/Kg)	BSD CONCENTRATION (mg/Kg)	BSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
TPH	500.0	410	82	2	25	70-130

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 1 outside limits
Spike Recovery: 0 out of 2 outside limits

COMMENTS: _____

FORM III 8015

FORM 4
8015 METHOD BLANK SUMMARY

WWC SAMPLE NO.

PBLK

Lab Name: INCHCAPE TESTING SERVICES Contract:

Lab Code: Case No.: SAS No.: SDG No.: GRO7327

Lab File ID: 10JUL0616099 Lab Sample ID: 7327-17

Date Analyzed: 07/10/96 Time Analyzed: 0616

GC Column: DB-624 ID: 0.53 (mm) Heated Purge: (Y/N) Y

Instrument ID: MULTI16

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	WWC SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	PBLKLCS	7327-20	10JUL0441099	0441
02	PBLKLCSD	PBLKLCSD	10JUL0505099	0505
03	WO-1MS	7327-18	10JUL0529099	0529
04	WO-1MSD	7327-19	10JUL0552099	0552
05	WO-1	7327-1	10JUL0640099	0640
06	MOP-1	7327-6	10JUL0708099	0708
07	OGP-1	7327-10	10JUL0732099	0732
08	DP-2	7327-9	10JUL0822099	0822
09	MOP-2	7327-7	10JUL1237099	1237
10	CPG-2	7327-5	10JUL1302099	1302
11	GPDTP-2	7327-15	10JUL1327099	1327
12	CPG-1	7327-4	10JUL1352099	1352
13	OGP-3	7327-12	10JUL1731099	1731
14	GPSTP-1	7327-14	10JUL1755099	1755
15	DP-1	7327-8	10JUL1932099	1932
16				
17				
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22				
23				
24				
25				
26				
27				

COMMENTS:

FORM 4
8015 METHOD BLANK SUMMARY

WWC SAMPLE NO.

PBLK1

Lab Name: INCHCAPE TESTING SERVICES Contract:

Lab Code: Case No.: SAS No.: SDG No.: GRO8270

Lab File ID: 11JUL0108 Lab Sample ID: PBLK1

Date Analyzed: 07/11/96 Time Analyzed: 0108

GC Column: DB-624 ID: 0.53 (mm) Heated Purge: (Y/N) Y

Instrument ID: MULTI16

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	WWC SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	PBLK1LCS	PBLK1LCS	10JUL2332	2332
02	PBLK1LCSD	PBLK1LCSD	10JUL2356	2356
03	WO-1MS	7327-1MS	11JUL0020	0020
04	WO-1MSD	7327-1MSD	11JUL0044	0044
05	WO-1	7327-1	11JUL0716	0716
06	OGP-2	7327-11	11JUL0829	0829
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
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COMMENTS:

SAMPLE DATA

FORM 1
8015 VOA ORGANICS ANALYSIS DATA SHEET

WWC SAMPLE NO.

WO-1

Lab Name: INCHCAPE TESTING SERVICES Contract:

Lab Code: DALLAS Case No.: SAS No.: SDG No.: GRO7327

Matrix: (soil/water) SOIL Lab Sample ID: 7327-1

Sample wt/vol: 5.000 (g/mL) g Lab File ID: 10JUL0640

Level: (low/med) LOW Date Received: 07/03/96

% Moisture: 18 Date Analyzed: 07/10/96

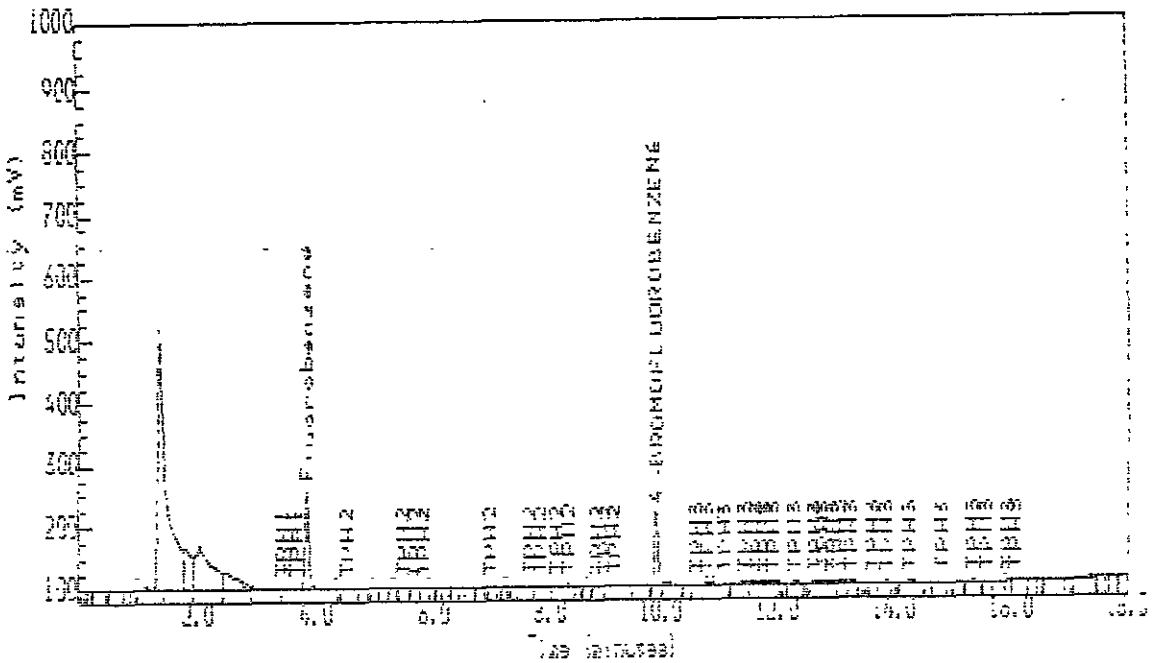
GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
----------	TPH	42	U

Injection Report

Acquired on 10-JUL-1996 at 06:40



Inchcape Testing Services - Dallas

Analyst Name :
Lims Id :
Comment :
Method Title : METHOD 8015
Sample Name : 7327-1 SG 8020/8015
Sample Id :
Sample Type : Sample Amount=0.00000
Bottle No : 36

PEAK INFORMATION

RI area	RT Corr	RT Sep	Area uVs	ug/L-ug/kg	Peak name	RF slope	RF intercept
1.112	1.120	0.000	5765	0.00		0.0000	0.0000
1.183	1.192	0.000	15765	0.00		0.0000	0.0000
1.406	1.416	0.000	4354868	0.00		0.0000	0.0000
1.877	1.890	0.000	573803	0.00		0.0000	0.0000
2.099	2.114	0.000	1426995	0.00		0.0000	0.0000
2.561	2.580	0.000	473497	0.00		0.0000	0.0000
		3.653	15699	1.45	TPH1	0.0211	0.0000
3.752	3.780	3.653	7121	0.66	- C1	0.0211	0.0000
3.921	3.950	3.950	591290	50.85	Fluorobenzene	0.0265	0.0000
		6.970	83416	4.71	TPH2	0.0345	0.0000
8.197	8.258	6.970	5534	0.31	- C2	0.0345	0.0000
8.401	8.464	6.970	17593	0.99	- C2	0.0345	0.0000

RT mins	RT Corr	RT Exp	Area uVs	ug/L-ug/kg	Peak name	RF slope	RF intercept
9.028	9.095	6.970	7094	0.40	- C2	0.0345	0.0000
9.429	9.498	0.000	11273	0.00		1.0000	0.0000
9.894	9.968	9.968	512394		4-BROMOFLUOROBENZENE	1.0000	0.0000
		13.347	215404	25.32	TPH2	0.0145	0.0000
10.597	10.676	13.347	13199	1.73	- C3	0.0148	0.0000
10.788	10.868	13.347	21468	2.83	- C3	0.0145	0.0000
11.437	11.522	13.347	36159	4.75	- C3	0.0142	0.0000
11.783	11.871	13.347	13915	1.83	- C2	0.0148	0.0000
11.908	11.997	13.347	9547	1.25	- C3	0.0148	0.0000
12.294	12.386	13.347	7658	1.01	- C3	0.0148	0.0000
12.628	12.722	13.347	7321	0.96	- C3	0.0148	0.0000
12.760	12.861	13.347	30439	4.00	- C3	0.0148	0.0000
13.037	13.134	13.347	6921	0.91	- C3	0.0148	0.0000
13.850	13.954	13.347	7151	0.94	- C3	0.0148	0.0000
14.241	14.348	13.347	12695	1.67	- C3	0.0148	0.0000
15.339	15.454	13.347	7583	1.00	- C2	0.0148	0.0000
15.934	16.054	13.347	4711	0.62	- C3	0.0148	0.0000
16.592	16.717	0.000	4681	0.00		0.0000	0.0000
16.828	16.954	0.000	8099	0.00		0.0000	0.0000
17.330	17.460	0.000	6070	0.00		0.0000	0.0000
17.586	17.697	0.000	6368	0.00		0.0000	0.0000

Totals

Unknowns	1404681	N/A
Quantified	8405329	85.34
Grand Total	8546791	85.34

MISSING PEAKS

No missing peaks.

PEAK GROUP INFORMATION

Area uVs	ug/L-ug/Kg	Peak name
314518	34.49	TPH as Gasoline

j.value

ANALYSIS SUMMARY

Method..... VOA0A1
Run sequence..... VOA
Calibration..... BTX0703
Internal standard calibration using area
Calibration last modified on 8-JUL-1996 at 16:42

Uncalibrated peaks use user factor (0.0000)

FORM 1
8015 VOA ORGANICS ANALYSIS DATA SHEET

WWC SAMPLE NO.

WO-1

Lab Name: INCHCAPE TESTING SERVICES Contract:

Lab Code: DALLAS Case No.: SAS No.: SDG No.: GRO7327

Matrix: (soil/water) SOIL Lab Sample ID: 7327-1

Sample wt/vol: 5.000 (g/mL) g Lab File ID: 11JUL0132

Level: (low/med) LOW Date Received: 07/03/96

% Moisture: 18 Date Analyzed: 07/11/96

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

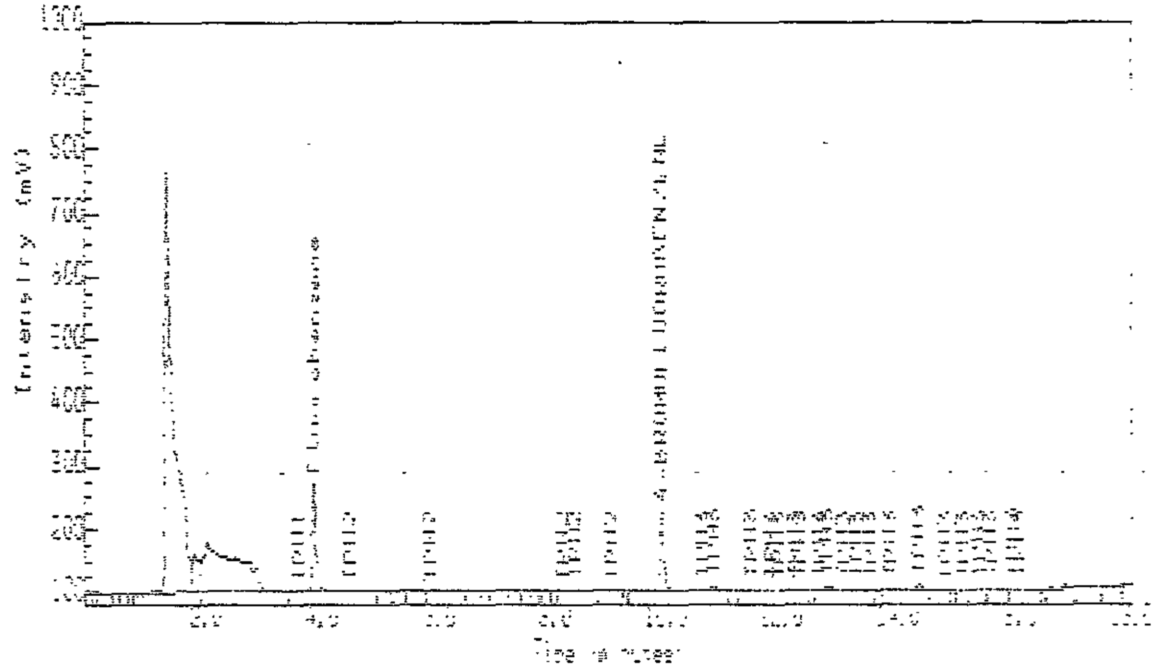
Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
----------	TPH	35	

[070896] 28 VOA071096,7,1 Page 1
Reported on 11-JUL-1996 at 07:15

Injection Report

Acquired on 11-JUL-1996 at 01:32



[illegible] Testing Services - Dallas

Analyst Name :
Lims Id :
Comment : PURGEABLE AROMATICS BY PID/FID
Method Title : METHOD 8015
Sample Name : [illegible]
Sample Id :
Sample Type : Sample Amount:1.00000
Bottle No : 7

PEAK INFORMATION

RT mins	RT Corr	RT Exp	Area uVs	[illegible]	Peak name	RF slope	RF intercept
1.126	1.129	0.000	8014	0.00		0.0000	0.0000
1.192	1.195	0.000	12949	0.00		0.0000	0.0000
1.272	1.276	0.000	23080	0.00		0.0000	0.0000
1.414	1.415	0.000	7076389	0.00		0.0000	0.0000
1.890	1.895	0.000	478583	0.00		0.0000	0.0000
2.112	2.118	0.000	1989150	0.00		0.0000	0.0000
2.579	2.586	0.000	1348409	0.00		0.0000	0.0000
		3.653	6402	0.53	TPH1	[illegible]	[illegible]
3.681	3.671	3.653	6402	0.53	- C1	[illegible]	[illegible]
3.939	3.950	3.950	752537	49.73	Fluorobenzene	[illegible]	[illegible]
		6.570	47409	[illegible]	[illegible]	[illegible]	[illegible]

535

RT mins	RT Corr	RT Exp	Area uVs	ug/L-ug/kg	Peak name	RF slope	RF increment
8.214	8.252	6.970	5200	0.26	- C2	0.0345	0.0000
8.414	8.452	6.970	16745	0.85	- C2	0.0345	0.0000
9.050	9.100	6.970	5770	0.29	- C2	0.0345	0.0000
9.912	9.960	9.960	570295		4-BROMOFLUOROBENZENE	1.0000	0.0000
10.197	10.255	0.000	11169	0.00		0.0000	0.0000
		13.347	271545	32.78	TPH	0.0148	0.0000
10.623	10.685	13.347	13811	1.63	- C3	0.0148	0.0000
10.797	10.859	13.347	43852	5.19	- C3	0.0148	0.0000
11.459	11.527	13.347	32603	3.85	- C3	0.0148	0.0000
11.806	11.876	13.347	8940	1.04	- C3	0.0148	0.0000
12.774	12.852	13.347	42762	5.05	- C3	0.0148	0.0000
13.272	13.354	13.347	7004	0.83	- C3	0.0148	0.0000
14.348	14.437	13.347	57484	6.79	- C3	0.0148	0.0000
15.352	15.449	13.347	7396	0.87	- C3	0.0148	0.0000
15.948	16.049	13.347	5038	0.60	- C3	0.0148	0.0000
16.604	16.708	0.000	6232	0.00		0.0000	0.0000
16.841	16.949	0.000	23395	0.00		0.0000	0.0000
17.197	17.308	0.000	2983	0.00		0.0000	0.0000
17.343	17.455	0.000	5820	0.00		0.0000	0.0000
17.574	17.688	0.000	6264	0.00		0.0000	0.0000

Totals

Unknowns	91102	VA
Quantified	12643655	84.75
Grand Total	12734757	84.75

MISSING PEAKS

No missing peaks.

PEAK GROUP IDENTIFICATION

Area uVs	ug/L-ug/Kg	Peak name
325336	85.01	TPH as Gasoline

ANALYSIS SUMMARY

Method..... VOAGA1
Run sequence..... VOA1
Calibration..... BTX0703
Internal standard calibration using area
Calibration last modified on 8-JUL-1996 at 16:42

Uncalibrated peaks use user factor (0.0000)

FORM 1
8015 VOA ORGANICS ANALYSIS DATA SHEET

WWC SAMPLE NO.

CPG-1

Lab Name: INCHCAPE TESTING SERVICES Contract:

Lab Code: DALLAS Case No.: SAS No.: SDG No.: GRO7327

Matrix: (soil/water) SOIL Lab Sample ID: 7327-4

Sample wt/vol: 5.000 (g/mL) g Lab File ID: 10JUL1352

Level: (low/med) LOW Date Received: 07/03/96

% Moisture: 20 Date Analyzed: 07/10/96

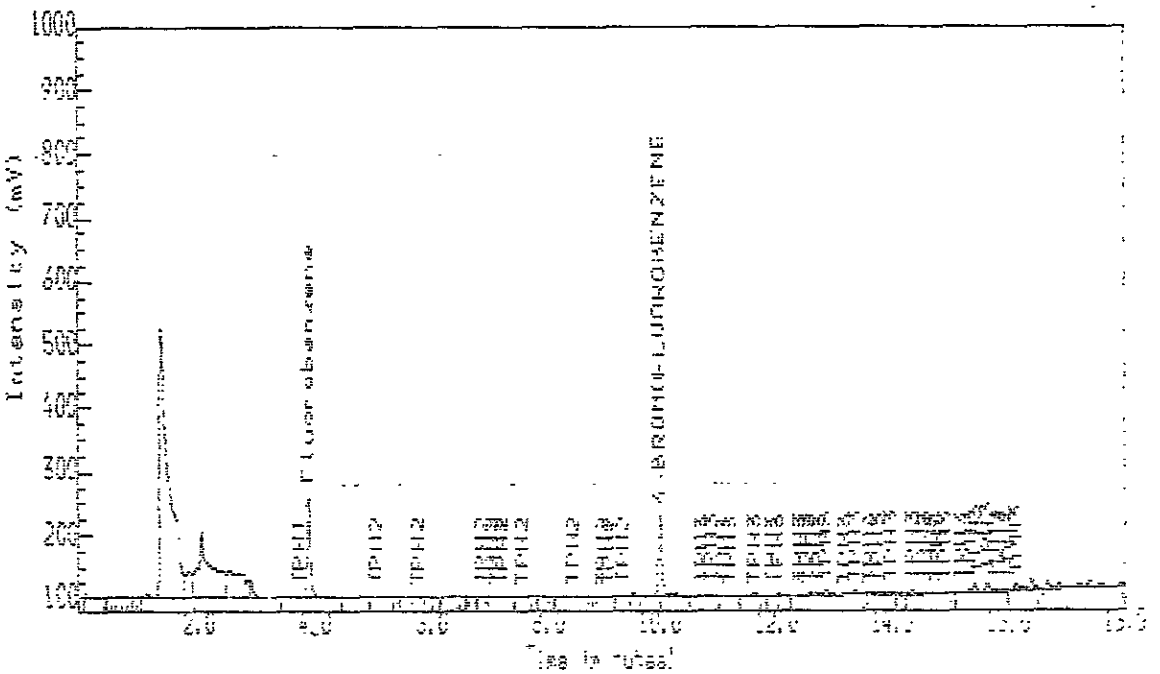
GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
----------	TPH	89	

Injection Report

Acquired on 10-JUL-1996 at 13:52



Inchcape Testing Services - Dallas

Analyst Name :
Line Id :
Comment :
Method Title : METHOD 8015
Sample Name : 7307-4 5G 60:20/80:5
Sample Id :
Sample Type : Sample Amount=0.00000
Bottle No : 47

PEAK INFORMATION

RT mins	RT Corr	RT Exp	Area uVs	ug/L-ug/Kg	Peak name	SF slope	SF intercept
1.143	1.131	0.000	7982	0.00		0.0000	0.0000
1.210	1.197	0.000	15813	0.00		0.0000	0.0000
1.286	1.272	0.000	12297	0.00		0.0000	0.0000
1.432	1.417	0.000	481749	0.00		0.0000	0.0000
1.917	1.896	0.000	363171	0.00		0.0000	0.0000
2.134	2.112	0.000	1767057	0.00		0.0000	0.0000
2.614	2.587	0.000	912069	0.00		0.0000	0.0000
2.997	2.965	0.000	117311	0.00		0.0000	0.0000
3.214	3.180	0.000	17572	0.00		0.0000	0.0000
3.992	3.950	3.950	728657	47.32	Fluorobenzene	0.0263	0.0000
	4.470		71955	3.58	TP#2	0.0245	0.0000

RT mins	RT Corr	RT Exp	Area uVs	ug/L-ug/Kg	Peak name	RF slope	RF intercept
8.521	8.486	6.770	13403	0.67	- C2	0.0245	0.0000
9.539	9.505	0.000	13545	0.00		0.0000	0.0000
10.001	9.968	9.968	520373		4-BROMOFLUOROBENZENE	1.0000	0.0000
		13.347	575213	66.77	TPH3	0.0148	0.0000
10.662	10.626	13.347	13814	1.60	- C3	0.0148	0.0000
11.619	11.589	13.347	20649	2.40	- C3	0.0148	0.0000
12.010	11.980	13.347	16426	1.91	- C3	0.0148	0.0000
12.406	12.377	13.347	7317	0.85	- C3	0.0148	0.0000
12.566	12.537	13.347	7893	0.92	- C3	0.0148	0.0000
12.721	12.692	13.347	10833	1.26	- C3	0.0148	0.0000
12.850	12.822	13.347	38938	4.53	- C3	0.0148	0.0000
13.170	13.142	13.347	7127	0.82	- C3	0.0148	0.0000
13.352	13.325	13.347	20769	2.41	- C3	0.0148	0.0000
13.748	13.721	13.347	8435	0.81	- C3	0.0148	0.0000
13.974	13.948	13.347	23674	2.75	- C3	0.0148	0.0000
14.348	14.322	13.347	38797	4.50	- C3	0.0148	0.0000
14.557	14.531	13.347	20930	2.43	- C3	0.0148	0.0000
14.668	14.642	13.347	16227	1.88	- C3	0.0148	0.0000
14.748	14.722	13.347	12530	1.42	- C3	0.0148	0.0000
14.894	14.869	13.347	30747	3.57	- C3	0.0148	0.0000
15.179	15.154	13.347	12532	1.44	- C3	0.0148	0.0000
15.330	15.306	13.347	17965	2.09	- C3	0.0148	0.0000
15.423	15.399	13.347	61166	7.09	- C3	0.0148	0.0000
15.646	15.622	13.347	78524	9.12	- C3	0.0148	0.0000
15.770	15.746	13.347	11780	1.37	- C3	0.0148	0.0000
15.841	15.817	13.347	12367	1.44	- C3	0.0148	0.0000
15.997	15.973	13.347	5924	1.15	- C3	0.0148	0.0000
16.126	16.102	13.347	54089	6.28	- C3	0.0148	0.0000
16.290	16.267	0.000	31632	0.00		0.0000	0.0000
16.397	16.374	0.000	85739	0.00		0.0000	0.0000
16.677	16.654	0.000	66035	0.00		0.0000	0.0000
16.806	16.783	0.000	16065	0.00		0.0000	0.0000
16.872	16.850	0.000	35843	0.00		0.0000	0.0000
17.059	17.037	0.000	9382	0.00		0.0000	0.0000
17.206	17.184	0.000	41456	0.00		0.0000	0.0000
17.392	17.371	0.000	49077	0.00		0.0000	0.0000
17.579	17.556	0.000	43179	0.00		0.0000	0.0000
17.926	17.905	0.000	3200	0.00		0.0000	0.0000

Totals

Unknowns	95816	N/A
Quantified	1040124O	117.68
Grand Total	1049705o	117.68

MISSING PEAKS

No missing peaks.

PEAK GROUP INFORMATION

Area uVs	ug/L-ug/Kg	Peak name
653888	70.91	TPH as Gasoline

ANALYSIS SUMMARY

Method..... VOA8A1
Run sequence..... VOA
Calibration..... STX0703
Internal standard calibration using area
Calibration last modified on 8-JUL-1996 at 16:43

Uncalibrated peaks use user factor (0.000)

FORM 1
8015 VOA ORGANICS ANALYSIS DATA SHEET

WWC SAMPLE NO.

CPG-2

Lab Name: INCHCAPE TESTING SERVICES Contract:

Lab Code: DALLAS Case No.: SAS No.: SDG No.: GRO7327

Matrix: (soil/water) SOIL Lab Sample ID: 7327-5

Sample wt/vol: 5.000 (g/mL) g Lab File ID: 10JUL1302

Level: (low/med) LOW Date Received: 07/03/96

% Moisture: 22 Date Analyzed: 07/10/96

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

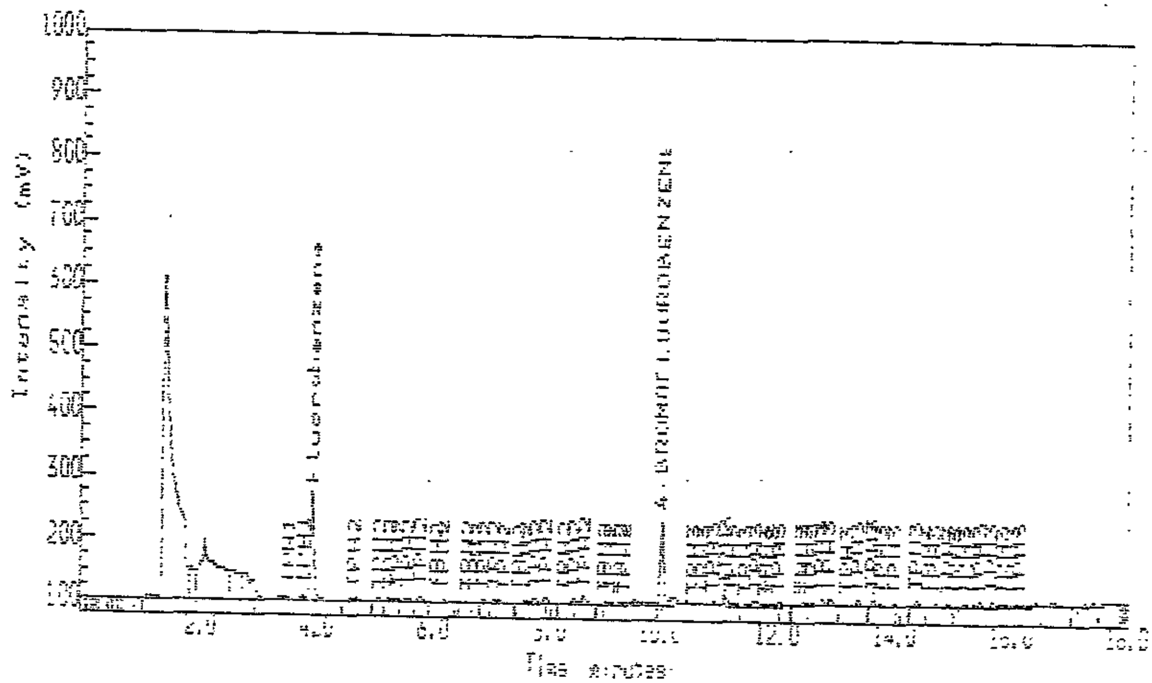
Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
	----------TPH	180	

[070896] 28 VOA070996A,50,1
Reported on 10-JUL-1996 at 15:17 Page 1

Injection Report

Acquired on 10-JUL-1996 at 13:02



Inchcape Testing Services - Dallas

nalyst Name :
Lims Id :
omment :
ethod Title : METHOD 8015
Sample Name : 7327-E ?? 8020/8015
amole Id :
ample Type : Sample Amount=0.00000
ottle No : 45

PEAK INFORMATION

RT mins	RT Corr	RT Exp	Area uVs	ug/L-ug/Kg	Peak name	RF slope	RF intercept
1.148	1.133	0.000	2239	0.00		0.0000	0.0000
1.214	1.199	0.000	13116	0.00		0.0000	0.0000
1.294	1.278	0.000	25350	0.00		0.0000	0.0000
1.437	1.418	0.000	6122578	0.00		0.0000	0.0000
1.921	1.897	0.000	314398	0.00		0.0000	0.0000
2.143	2.116	0.000	2038503	0.00		0.0000	0.0000
2.619	2.565	0.000	395735	0.00		0.0000	0.0000
2.823	2.787	0.000	539282	0.00		0.0000	0.0000
3.223	3.182	0.000	11569	0.00		0.0000	0.0000
3.428	3.384	0.000	28968	0.00		0.0000	0.0000
[illegible]	[illegible]	3.633	[illegible]	[illegible]	[illegible]		

542

RT mins	RT Corr	RT Exp	Area uVs	ug/L-ug/Kg	Peak name	RF slope	RF intercept
3.837	3.788	3.653	48431	3.94	- C1	0.0211	0.0000
4.001	3.950	3.950	761624	49.22	Fluorobenzene	0.0265	0.0000
		6.970	558199	27.71	TPH2	0.0345	0.0000
4.721	4.672	6.970	39567	1.96	- C2	0.0345	0.0000
5.157	5.109	6.970	16951	0.84	- C2	0.0345	0.0000
5.357	5.310	6.970	18904	0.94	- C2	0.0345	0.0000
5.463	5.417	6.970	28544	1.41	- C2	0.0345	0.0000
5.641	5.595	6.970	27755	1.38	- C2	0.0345	0.0000
5.959	5.913	6.970	48607	2.41	- C2	0.0345	0.0000
6.130	6.085	6.970	11342	0.56	- C2	0.0345	0.0000
6.259	6.215	6.970	15553	0.77	- C2	0.0345	0.0000
6.659	6.616	6.970	9922	0.49	- C2	0.0345	0.0000
6.948	6.906	6.970	11835	0.59	- C2	0.0347	0.0000
7.134	7.093	6.970	31729	1.58	- C2	0.0345	0.0000
7.303	7.252	6.970	8747	0.43	- C2	0.0345	0.0000
7.663	7.623	6.970	20682	1.03	- C2	0.0345	0.0000
7.819	7.779	6.970	47274	2.35	- C2	0.0345	0.0000
8.006	7.967	6.970	36303	1.80	- C3	0.0345	0.0000
8.321	8.283	6.970	7856	0.39	- C2	0.0345	0.0000
8.494	8.457	6.970	46328	2.30	- C2	0.0345	0.0000
8.677	8.640	6.970	61192	3.04	- C2	0.0345	0.0000
9.019	8.983	6.970	10652	0.53	- C2	0.0345	0.0000
9.126	9.090	6.970	22269	1.11	- C2	0.0345	0.0000
9.303	9.268	6.970	14452	0.72	- C2	0.0345	0.0000
9.379	9.344	6.970	11643	0.58	- C2	0.0345	0.0000
9.524	9.500	0.000	51504	0.00		0.0000	0.0000
9.730	9.696	0.000	10927	0.00		0.0000	0.0000
10.001	9.968	9.968	583166		4-BROMOFLUOROBENZENE	1.0000	0.0000
10.206	10.173	0.000	99186	0.00		0.0000	0.0000
10.410	10.378	0.000	26180	0.00		0.0000	0.0000
		13.347	927062	107.10	TPH3	0.0148	0.0000
10.548	10.517	13.347	6717	0.78	- C3	0.0148	0.0000
10.866	10.835	13.347	29452	3.40	- C3	0.0148	0.0000
11.077	11.047	13.347	79369	9.17	- C3	0.0148	0.0000
11.206	11.176	13.347	14951	1.73	- C3	0.0148	0.0000
11.428	11.399	13.347	5108	0.59	- C3	0.0148	0.0000
11.614	11.587	13.347	62612	7.23	- C3	0.0148	0.0000
11.766	11.738	13.347	9055	1.05	- C3	0.0148	0.0000
11.894	11.867	13.347	11997	1.38	- C3	0.0148	0.0000
12.010	11.983	13.347	34762	4.02	- C3	0.0148	0.0000
12.406	12.380	13.347	28643	3.31	- C3	0.0148	0.0000
12.472	12.447	13.347	15137	1.75	- C3	0.0148	0.0000
12.570	12.545	13.347	25775	2.98	- C3	0.0148	0.0000
12.730	12.706	13.347	45639	5.27	- C3	0.0145	0.0000
12.872	12.848	13.347	65964	7.62	- C3	0.0148	0.0000
13.170	13.147	13.347	15315	1.77	- C3	0.0148	0.0000
13.352	13.330	13.347	41024	4.74	- C3	0.0148	0.0000
13.610	13.588	13.347	49457	5.72	- C3	0.0148	0.0000
13.730	13.709	13.347	17350	2.01	- C3	0.0142	0.0000
13.970	13.949	13.347	29260	3.38	- C3	0.0148	0.0000
14.352	14.333	13.347	66710	7.71	- C3	0.0148	0.0000
14.557	14.538	13.347	13187	1.52	- C3	0.0148	0.0000

RT mins	RT Corr	RT Exp	Area uVs	ug/L-ug/Kg	Peak name	RF slope	RF intercept
14.894	14.877	13.347	30204	3.49	- 03	0.0148	0.0000
15.019	15.001	13.347	6333	0.73	- 03	0.0148	0.0000
15.183	15.166	13.347	33423	3.86	- 03	0.0148	0.0000
15.334	15.318	13.347	17902	2.07	- 03	0.0148	0.0000
15.437	15.420	13.347	33710	3.89	- 03	0.0148	0.0000
15.646	15.630	13.347	57159	6.60	- 03	0.0148	0.0000
15.832	15.817	13.347	21115	2.44	- 03	0.0148	0.0000
16.001	15.987	13.347	10561	1.22	- 03	0.0148	0.0000
16.121	16.107	13.347	21568	2.49	- 03	0.0148	0.0000
16.397	16.383	0.000	41049	0.00		0.0000	0.0000
16.552	16.539	0.000	9078	0.00		0.0000	0.0000
16.663	16.651	0.000	14356	0.00		0.0000	0.0000
16.748	16.736	0.000	15772	0.00		0.0000	0.0000
16.899	16.887	0.000	16273	0.00		0.0000	0.0000
17.254	17.244	0.000	7928	0.00		0.0000	0.0000
17.401	17.391	0.000	14754	0.00		0.0000	0.0000
17.632	17.623	0.000	14397	0.00		0.0000	0.0000

Totals

Knowns	21357	N/A
Quantified	12939799	190.43
Grand Total	12961137	190.43

MISSING PEAKS

No missing peaks.

PEAK GROUP INFORMATION

Area uVs	ug/L-ug/Kg	Peak name
1563884	141.21	TPH as Gasoline

ANALYSIS SUMMARY

Method..... VOADA1
Run sequence..... VOA
Calibration..... BTX070G
Internal standard calibration using area
Calibration last modified on 8-JUL-1996 at 16:42

Uncalibrated peaks use user factor (0.0000)

FORM 1
8015 VOA ORGANICS ANALYSIS DATA SHEET

WWC SAMPLE NO.

MOP-1

Lab Name: INCHCAPE TESTING SERVICES Contract:

Lab Code: DALLAS Case No.: SAS No.: SDG No.: GRO7327

Matrix: (soil/water) SOIL Lab Sample ID: 7327-6

Sample wt/vol: 5.000 (g/mL) g Lab File ID: 10JUL0708

Level: (low/med) LOW Date Received: 07/03/96

% Moisture: 14 Date Analyzed: 07/10/96

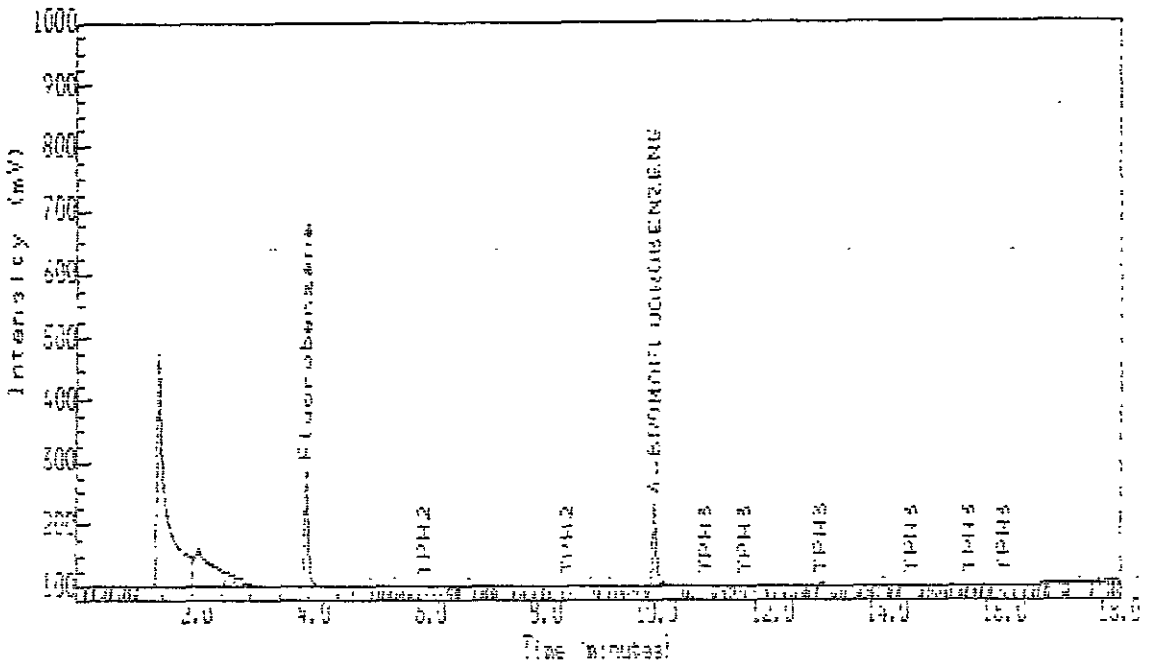
GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
----------	TPH	58	U

Injection Report

Acquired on 10-JUL-1996 at 07:08



Inchcape Testing Services - Dallas

Analyst Name :
Lims Id :
Comment :
Method Title : METHOD 8015
Sample Name : 7327-6 SG 8020/8015
Sample Id :
Sample Type : Sample Amount=0.000000
Bottle No : 37

PEAK INFORMATION

RT mins	RT Corr	RT End	Area uVs	ug/L-ug/Kg	Peak Name	RF slope	% intercept
1.201	1.200	0.000	20165	0.00		0.0000	0.0000
1.423	1.423	0.000	4231025	0.00		0.0000	0.0000
2.121	2.120	0.000	1293962	0.00		0.0000	0.0000
2.583	2.582	0.000	398369	0.00		0.0000	0.0000
3.952	3.950	3.950	930457	53.13	Fluorobenzene	0.3254	0.0000
		5.970	17313	0.86	TPH2	0.0245	0.0000
9.948	9.966	9.968	581710		4-BROMOFLUOROBENZENE	1.0000	0.0000
		13.347	55159	6.39	TPH3	0.0148	0.0000
10.832	10.856	13.347	6055	0.70	- C3	0.0148	0.0000
12.823	12.855	13.347	17183	1.99	- C3	0.0148	0.0000
16.637	16.683	0.000	3395	0.00		0.0000	0.0000
17.610	17.660	0.000	5897	0.00		0.0000	0.0000

RT mins	RT Corr	RT Exp	Area uVs	ug/L-ug/Kg	Peak name	RF slope	RF intercept

Totals

Unknowns	7745	N/A
Quantified	7417081	60.38
Grand Total	7494540	60.36

MISSING PEAKS

No missing peaks.

PEAK GROUP INFORMATION

Area uVs	ug/L-ug/Kg	Peak name
74250	7.40	TPH as Gasoline

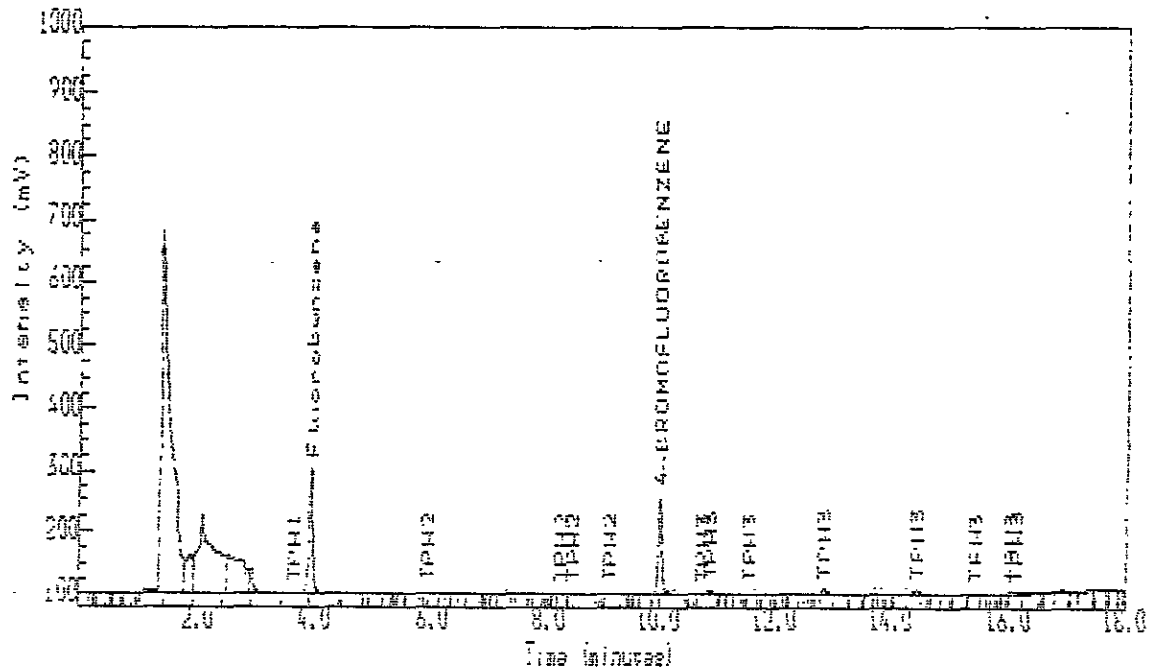
ANALYSIS SUMMARY

Method..... VOA0A1
Run sequence..... VOA
Calibration..... BTA0703
Internal standard calibration using area
Calibration last modified on 8-JUL-1996 at 16:42

Uncalibrated peaks use user factor (0.00000)

Injection Report

Acquired on 10-JUL-1996 at 10:27



Inchcape Testing Services - Dallas

Analyst Name :
Lims Id :
Comment :
Method Title : METHOD 8015
Sample Name : 7202-6K SG 8015
Sample Id :
Sample Type : Sample Amount=0.00000
Bottle No : 43

Rpt w/ 1st Batch.
MW 7-24-96

PEAK INFORMATION

RT mins	RT Corr	RT Exp	Area uVs	ug/L-ug/kg	Peak name	RF slope	RF intercept
1.152	1.138	0.000	9332	0.00		0.0000	0.0000
1.228	1.212	0.000	12854	0.00		0.0000	0.0000
1.299	1.282	0.000	25672	0.00		0.0000	0.0000
1.446	1.427	0.000	6339103	0.00		0.0000	0.0000
1.930	1.905	0.000	541207	0.00		0.0000	0.0000
2.148	2.120	0.000	2531207	0.00		0.0000	0.0000
2.623	2.590	0.000	1237339	0.00		0.0000	0.0000
3.006	2.967	0.000	196438	0.00		0.0000	0.0000
4.001	3.950	3.950	889390	49.35	Fluorobenzene	0.0265	0.0000
		6.970	29420	1.25	TPH2	0.0345	0.0000
6.001	5.958	6.970	6496	0.28	- C2	0.0345	0.0000
8.499	8.465	6.970	9723	0.42	- C2	0.0345	0.0000

RT mins	RT Corr	RT Exp	Area uVs	ug/L-ug/kg	Peak name	RF slope	RF intercept
9.997	9.968	9.968	679263		4-BROMOFLUOROBENZENE	1.0000	0.0000
		13.347	157163	15.59	TPH3	0.0148	0.0000
10.872	10.847	13.347	31129	3.09	- C3	0.0148	0.0000
11.548	11.525	13.347	6756	0.67	- C3	0.0148	0.0000
12.846	12.828	13.347	47416	4.70	- C3	0.0148	0.0000
14.432	14.421	13.347	45986	4.56	- C3	0.0148	0.0000
16.019	16.013	13.347	4212	0.42	- C3	0.0148	0.0000
16.659	16.656	0.000	9062	0.00		0.0000	0.0000
16.890	16.888	0.000	25893	0.00		0.0000	0.0000
17.388	17.387	0.000	7521	0.00		0.0000	0.0000
17.628	17.628	0.000	4191	0.00		0.0000	0.0000

Totals

Unknowns	64397	N/A
Quantified	12684055	66.19
Grand Total	12748452	66.19

MISSING PEAKS

. . . No missing peaks.

PEAK GROUP INFORMATION

Area uVs	ug/L-ug/kg	Peak name
193719	17.34	TPH as Gasoline

ANALYSIS SUMMARY

Method..... VOAUA1
Run sequence..... VO4
Calibration..... BTX070?
Internal standard calibration using area
Calibration last modified on 8-JUL-1996 at 16:42

Uncalibrated peaks use user factor (0.0000)

FORM 1
8015 VOA ORGANICS ANALYSIS DATA SHEET

WWC SAMPLE NO.

MOP-2

Lab Name: INCHCAPE TESTING SERVICES Contract:

Lab Code: DALLAS Case No.: SAS No.: SDG No.: GRO7327

Matrix: (soil/water) SOIL Lab Sample ID: 7327-7

Sample wt/vol: 5.000 (g/mL) g Lab File ID: 10JUL1237

Level: (low/med) LOW Date Received: 07/03/96

% Moisture: 11 Date Analyzed: 07/10/96

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

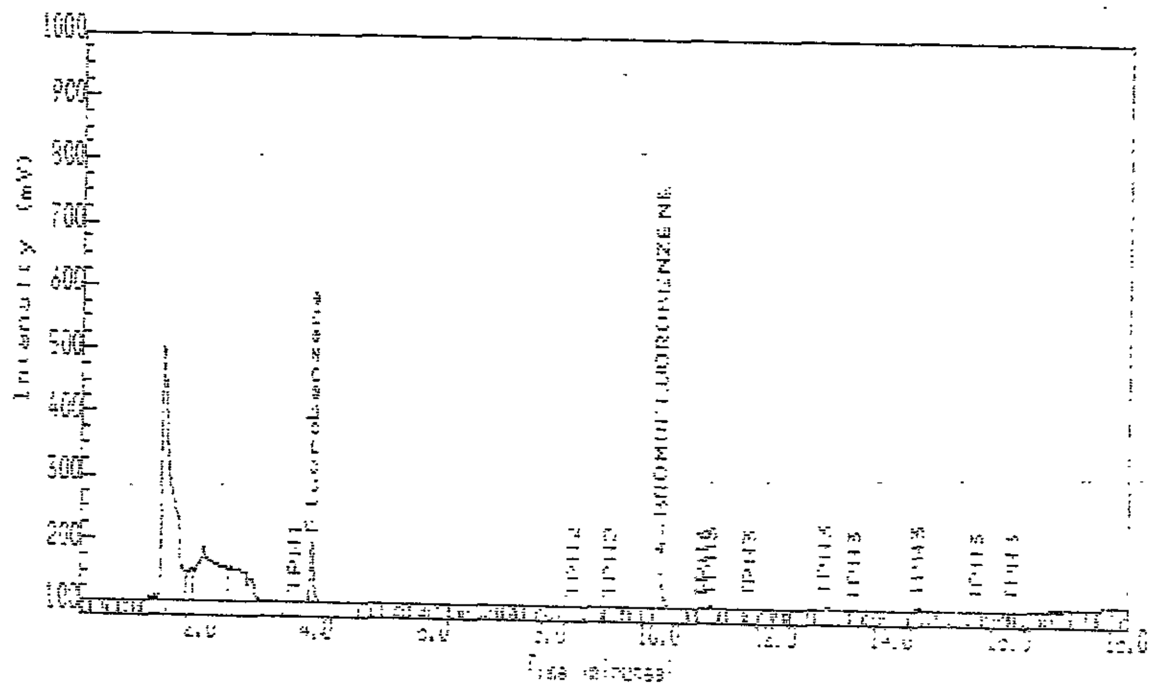
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
----------	TPH	56	U

FORM I 8015 VOA

[070896] 28 VOA070996A,49,1
Reported on 10-JUL-1996 at 15:17

Injection Report

Acquired on 10-JUL-1996 at 12:37



Inchcape Testing Services - Dallas

nalyst Name :
Lims Id :
omment :
ethod Title : METHOD 8015
Sample Name : 7327-7 5B 8020/8015
ample Id :
ample Type : Sample Amount=0.00000
Bottle No : 44

Rept w/CSN
use #39 as conf
MM 7-10-96

PEAK INFORMATION

mins	RT Corr	RT Exp	Area uVs	ug/L-ug/Kg	Peak name	RF slope	RF intercept
1.143	1.130	0.000	12589	0.00		0.0000	0.0000
1.290	1.275	0.000	58835	0.00		0.0000	0.0000
1.432	1.415	0.000	4719254	0.00		0.0000	0.0000
1.921	1.899	0.000	355169	0.00		0.0000	0.0000
2.134	2.110	0.000	2328951	0.00		0.0000	0.0000
2.614	2.584	0.000	1057263	0.00		0.0000	0.0000
3.997	3.950	3.950	447973	52.51	Fluorobenzene	0.0265	0.0000
		6.970	17903	1.61	TPH2	0.0345	0.0000
8.503	8.467	6.970	7099	0.64	- C2	0.0345	0.0000
10.001	9.968	9.968	321499		4-BROMOFLUOROBENZENE	1.0000	0.0000

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[070896] 28 V0A070996A,49,1 Page 2
Reported on 10-JUL-1996 at 15:17

RT mins	RT Corr	RT Exp	Area uVs	ug/L-ug/Kg	Peak name	RF slope	RF intercept
11.548	11.519	13.347	8235	1.73	- C3	0.0148	0.0000
12.850	12.824	13.347	46569	9.76	- C3	0.0148	0.0000
14.432	14.410	13.347	49295	10.33	- C3	0.0148	0.0000
16.659	16.641	0.000	7633	0.00		0.0000	0.0000
16.894	16.878	0.000	24032	0.00		0.0000	0.0000
17.401	17.385	0.000	4325	0.00		0.0000	0.0000
17.570	17.555	0.000	3278	0.00		0.0000	0.0000
17.632	17.617	0.000	4577	0.00		0.0000	0.0000

Totals

Unknowns	64600	N/A
Quantified	7826632	88.25
Grand Total	7891232	88.36

MISSING PEAKS

No missing peaks.

PEAK GROUP INFORMATION

Area uVs	ug/L-ug/Kg	Peak name
197549	20.77	TPH as Gasoline

ANALYSIS SUMMARY

Method..... V0A-QA1
Run sequence..... V0A
Calibration..... BTXC70S
Internal standard calibration using area
Calibration last modified on 8-JUL-1996 at 16:42

Uncalibrated peaks use user factor (0.0000)

FORM 1
8015 VOA ORGANICS ANALYSIS DATA SHEET

WWC SAMPLE NO.

DP-1

Lab Name: INCHCAPE TESTING SERVICES Contract:

Lab Code: DALLAS Case No.: SAS No.: SDG No.: GRO7327

Matrix: (soil/water) SOIL Lab Sample ID: 7327-8

Sample wt/vol: 5.000 (g/mL) g Lab File ID: 10JUL1932

Level: (low/med) LOW Date Received: 07/03/96

% Moisture: 15 Date Analyzed: 07/10/96

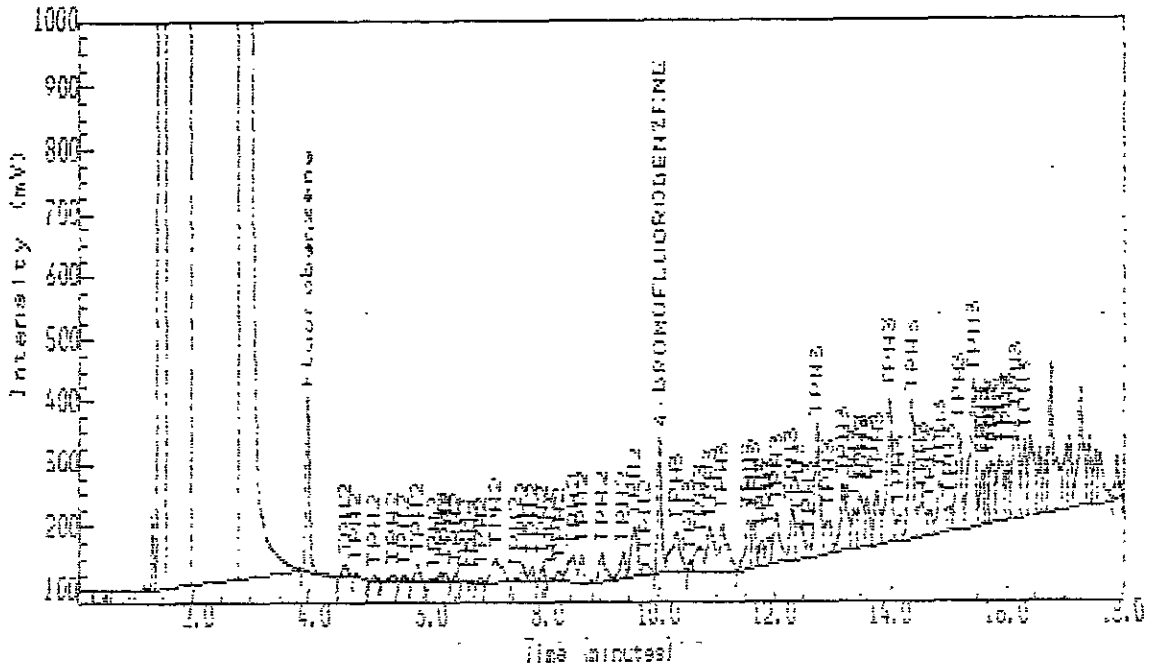
GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 25.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
----------	TPH	47200	

Injection Report

Acquired on 10-JUL-1996 at 19:32



Inchcape Testing Services - Dallas

Analyst Name :
Lims Id :
Comment :
Method Title : METHOD 8015
Sample Name : 7237-8 1/25 8020/8015
Sample Id :
Sample Type : Sample Amount=1.00000
Bottle No : 54

PEAK INFORMATION

RT mins	RT Corr	RT Exp	Area uVs	ug/L-ug/Kg	Peak name	RF slope	RF intercept
1.134	1.134	0.000	15840	0.00		0.0000	0.0000
1.272	1.272	0.000	298408	0.00		0.0000	0.0000
1.446	1.445	0.000	33829224	0.00		0.0000	0.0000
1.734	1.723	0.000	260144288	0.00		0.0000	0.0000
3.374	3.373	0.000	452493200	0.00		0.0000	0.0000
3.912	3.911	0.000	1260e0440	0.00		0.0000	0.0000
3.932	3.950	3.950	1159447	1116.99	Fluorobenzene	0.0265	0.0000
		6.950	3848432	3948.17	TPH2	0.0345	0.0000
4.601	4.597	6.920	115249	85.29	- C1	0.0345	0.0000
4.770	4.765	6.920	41772	30.92	- C1	0.0345	0.0000
5.097	5.093	6.920	24198	17.91	- C1	0.0345	0.0000
5.419	5.412	6.920	54609	40.42	- C1	0.0345	0.0000

RT wins	RT Corr	RT Exp	Area uVs	ug/L-ug/Kg	Peak name	RF slope	RF intercept
5.610	5.603	6.920	36654	27.13	- C1	0.0345	0.0000
5.832	5.825	6.920	149159	110.39	- C1	0.0345	0.0000
6.117	6.108	6.920	43975	32.55	- C1	0.0345	0.0000
6.223	6.215	6.920	67636	50.06	- C1	0.0345	0.0000
6.312	6.303	6.920	80872	59.85	- C1	0.0345	0.0000
6.486	6.476	6.920	66769	49.43	- C1	0.0345	0.0000
6.779	6.769	6.920	6229	4.60	- C1	0.0345	0.0000
6.926	6.915	6.920	43723	32.36	- C1	0.0345	0.0000
7.179	7.167	6.920	466295	345.10	- C1	0.0345	0.0000
7.517	7.504	6.920	17450	12.91	- C1	0.0345	0.0000
7.637	7.624	6.920	156886	116.11	- C1	0.0345	0.0000
7.797	7.783	6.920	137075	101.45	- C1	0.0345	0.0000
7.983	7.970	6.920	106482	78.81	- C1	0.0345	0.0000
8.126	8.111	6.920	21257	15.73	- C1	0.0345	0.0000
8.254	8.240	6.920	106787	79.03	- C1	0.0345	0.0000
8.508	8.493	6.920	426866	315.92	- C1	0.0345	0.0000
8.659	8.643	6.920	271761	201.13	- C1	0.0345	0.0000
9.001	8.984	6.920	345008	255.34	- C1	0.0345	0.0000
9.261	9.243	6.920	262326	194.82	- C1	0.0345	0.0000
9.561	9.543	6.920	619579	458.54	- C1	0.0345	0.0000
9.748	9.729	6.920	175612	129.97	- C1	0.0345	0.0000
9.986	9.968	9.968	978627		4-BROMOFLUOROBENZENE	1.0000	0.0000
		13.234	21707292	37383.20	TPH3	0.0148	0.0000
10.281	10.261	13.234	689635	1187.65	- C2	0.0148	0.0000
10.517	10.496	13.234	55602	95.76	- C2	0.0148	0.0000
10.681	10.661	13.234	352320	606.75	- C2	0.0148	0.0000
10.846	10.824	13.234	606276	1044.10	- C2	0.0148	0.0000
11.062	11.043	13.234	686663	1182.54	- C2	0.0148	0.0000
11.321	11.297	13.234	472072	812.98	- C2	0.0148	0.0000
11.506	11.491	13.234	387817	667.88	- C2	0.0148	0.0000
11.749	11.719	13.234	223369	384.72	- C2	0.0148	0.0000
11.881	11.856	13.234	264485	455.48	- C2	0.0148	0.0000
12.001	11.976	13.234	592263	1019.97	- C2	0.0148	0.0000
12.272	12.246	13.234	450941	776.59	- C2	0.0148	0.0000
12.388	12.361	13.234	474365	816.76	- C2	0.0148	0.0000
12.566	12.539	13.234	103912	178.95	- C2	0.0148	0.0000
12.708	12.681	13.234	1322195	2277.02	- C2	0.0148	0.0000
12.912	12.884	13.234	459705	791.56	- C2	0.0148	0.0000
13.166	13.137	13.234	869624	1497.97	- C2	0.0148	0.0000
13.348	13.319	13.234	335153	577.13	- C2	0.0148	0.0000
13.463	13.434	13.234	572505	985.94	- C2	0.0148	0.0000
13.583	13.554	13.234	439034	756.08	- C2	0.0148	0.0000
13.739	13.709	13.234	538038	926.58	- C2	0.0148	0.0000
13.957	13.926	13.234	1495176	2574.91	- C2	0.0148	0.0000
14.121	14.090	13.234	238088	410.02	- C2	0.0148	0.0000
14.339	14.307	13.234	1349552	2324.13	- C2	0.0148	0.0000
14.508	14.475	13.234	429950	740.46	- C2	0.0148	0.0000
14.646	14.613	13.234	206976	356.44	- C2	0.0148	0.0000
14.828	14.794	13.234	687708	1184.34	- C2	0.0148	0.0000
14.968	14.954	13.234	204426	352.08	- C2	0.0148	0.0000
15.157	15.122	13.234	1048290	1805.31	- C2	0.0148	0.0000
15.410	15.375	13.234	1687455	2906.05	- C2	0.0148	0.0000
15.570	15.535	13.234	457996	788.74	- C2	0.0148	0.0000

RT mins	RT Corr	RT Exp	Area uVs	ug/L-ug/Kg	Peak name	Rt slope	Rt intercept
15.637	15.601	13.234	355332	611.93	- C2	0.0148	0.0000
15.708	15.672	13.234	659723	1136.14	- C2	0.0148	0.0000
15.850	15.814	13.234	781314	1345.54	- C2	0.0148	0.0000
15.988	15.951	13.234	404363	696.37	- C2	0.0148	0.0000
16.112	16.075	13.234	1181700	2035.06	- C2	0.0148	0.0000
16.281	16.244	13.234	621156	1069.72	- C2	0.0148	0.0000
16.379	16.341	0.000	967684	0.00		0.0000	0.0000
16.543	16.505	0.000	446625	0.00		0.0000	0.0000
16.668	16.629	0.000	437187	0.00		0.0000	0.0000
16.734	16.696	0.000	1493145	0.00		0.0000	0.0000
16.792	16.753	0.000	486887	0.00		0.0000	0.0000
17.054	17.015	0.000	476740	0.00		0.0000	0.0000
17.241	17.201	0.000	1236394	0.00		0.0000	0.0000
17.392	17.352	0.000	433779	0.00		0.0000	0.0000
17.499	17.458	0.000	367195	0.00		0.0000	0.0000
17.579	17.538	0.000	308791	0.00		0.0000	0.0000
17.877	17.835	0.000	282008	0.00		0.0000	0.0000

Totals

Unknowns	3451	N/A
Quantified	958081024	41348.36
Grand Total	958084480	41348.36

MISSING PEAKS

RT mins	Peak name
3.653	TPH1

PEAK GROUP INFORMATION

Area uVs	ug/L-ug/Kg	Peak name
25555722	40231.36	TPH as Gasoline

ANALYSIS SUMMARY

Method..... VOA0A1
Run sequence..... VOA
Calibration..... BTX0703
Internal standard calibration using area
Calibration last modified on 11-JUL-1996 at 12:36

Uncalibrated peaks use user factor (0.0000)

FORM 1
8015 VOA ORGANICS ANALYSIS DATA SHEET

WWC SAMPLE NO.

DP-2

Lab Name: INCHCAPE TESTING SERVICES Contract:

Lab Code: DALLAS Case No.: SAS No.: SDG No.: GRO7327

Matrix: (soil/water) SOIL Lab Sample ID: 7327-9

Sample wt/vol: 5.000 (g/mL) g Lab File ID: 10JUL0822

Level: (low/med) LOW Date Received: 07/03/96

% Moisture: _18_____ Date Analyzed: 07/10/96

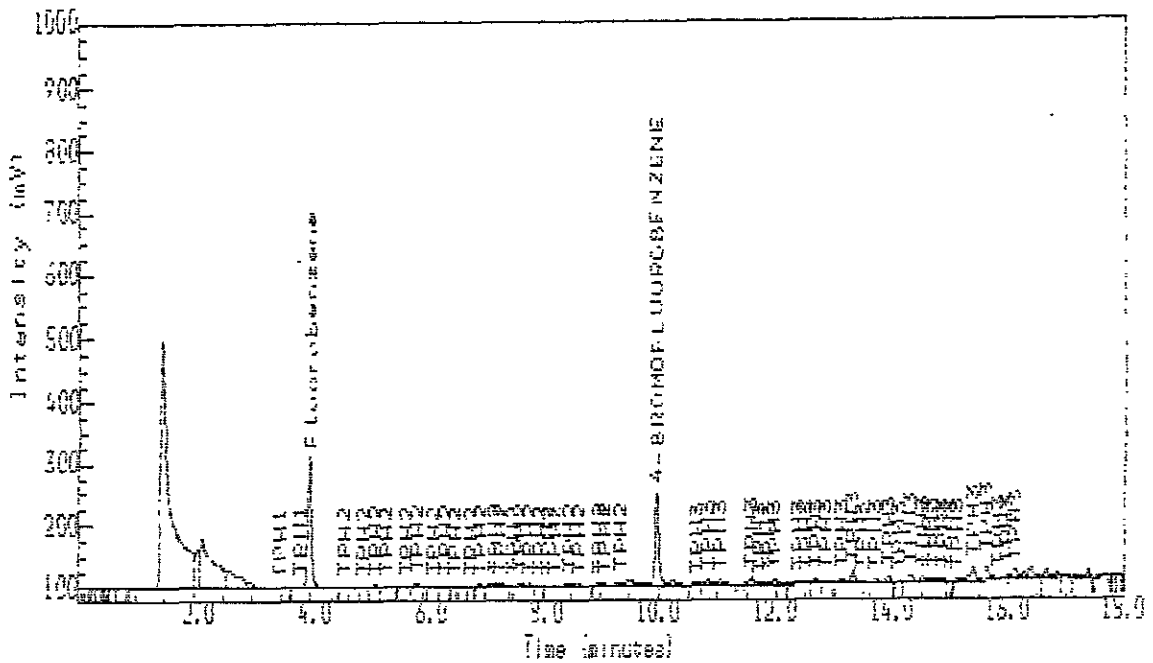
GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
----------	TPH	171	

Injection Report

Acquired on 10-JUL-1996 at 08:22



Enoncape Testing Services - Dallas

Analyst Name :
Lims Id :
Comment :
Method Title : METHOD 5015
Sample Name : 7317-9 SS 8020/8015
Sample Id :
Sample Type : Sample Amount=0.00000
Bottle No : 40

PEAK INFORMATION

RT mins	RT Corr	RT Exp	Area uVs	ug/L-ug/kg	Peak Name	% slope	% intercept
1.214	1.207	0.000	13478	0.00		0.0000	0.0000
1.437	1.428	0.000	4680174	0.00		0.0000	0.0000
2.068	2.055	0.000	327525	0.00		0.0000	0.0000
2.134	2.121	0.000	1282259	0.00		0.0000	0.0000
2.606	2.590	0.000	472061	0.00		0.0000	0.0000
		3.653	23763	1.72	TPH1	0.0211	0.0000
3.819	3.795	3.653	17157	1.24	- C1	0.0211	0.0000
3.974	3.950	3.950	918527	52.88	Fluorobenzene	0.0265	0.0000
		6.970	389691	17.24	TPH2	0.0345	0.0000
5.121	5.104	6.970	14187	0.63	- C2	0.0345	0.0000
5.317	5.300	6.970	9743	0.43	- C2	0.0345	0.0000
5.832	5.819	6.970	24687	1.09	- C2	0.0345	0.0000

RT mins	RT Corr	RT End	Area uVs	ug/L-ug/Kg	Peak name	RF slope	RF intercept
6.317	6.306	6.970	12936	0.57	- C2	0.0345	0.0000
6.917	6.910	6.970	17791	0.79	- C2	0.0345	0.0000
7.174	7.169	6.970	28666	1.27	- C2	0.0345	0.0000
7.259	7.254	6.970	29233	1.29	- C2	0.0345	0.0000
7.619	7.616	6.970	32271	1.43	- C2	0.0345	0.0000
7.788	7.786	6.970	11749	0.52	- C2	0.0345	0.0000
7.961	7.961	6.970	9132	0.40	- C2	0.0345	0.0000
8.223	8.225	6.970	11586	0.51	- C2	0.0345	0.0000
8.481	8.484	6.970	56749	2.51	- C2	0.0345	0.0000
8.637	8.640	6.970	21130	0.93	- C2	0.0345	0.0000
8.983	8.989	6.970	25960	1.15	- C2	0.0345	0.0000
9.077	9.083	6.970	13341	0.59	- C2	0.0345	0.0000
9.339	9.347	6.970	38247	1.69	- C2	0.0345	0.0000
9.499	9.508	0.000	78116	0.00		0.0000	0.0000
9.703	9.713	0.000	33353	0.00		0.0000	0.0000
9.957	9.968	9.968	654611		4-BROMOFLUOROBENZENE	1.0000	0.0000
10.250	10.263	0.000	72035	0.00		1.0000	0.0000
		13.347	1172285	120.65	TPH3	0.0148	0.0000
10.646	10.661	13.347	19858	2.04	- C3	0.0148	0.0000
10.819	10.836	13.347	42835	4.41	- C3	0.0148	0.0000
11.037	11.055	13.347	43147	4.44	- C3	0.0148	0.0000
11.579	11.600	13.347	72623	7.47	- C3	0.0148	0.0000
11.709	11.730	13.347	6530	0.67	- C3	0.0148	0.0000
11.865	11.886	13.347	16014	1.65	- C3	0.0148	0.0000
11.966	11.989	13.347	48634	5.01	- C3	0.0148	0.0000
12.066	12.092	13.347	34891	3.59	- C3	0.0148	0.0000
12.517	12.544	13.347	15217	1.58	- C3	0.0148	0.0000
12.672	12.700	13.347	32413	3.34	- C3	0.0148	0.0000
12.832	12.861	13.347	19040	1.96	- C3	0.0148	0.0000
13.121	13.152	13.347	40465	4.16	- C3	0.0148	0.0000
13.312	13.344	13.347	88175	9.07	- C3	0.0148	0.0000
13.454	13.487	13.347	20025	2.06	- C3	0.0148	0.0000
13.703	13.738	13.347	19403	2.00	- C3	0.0148	0.0000
13.926	13.961	13.347	54969	5.66	- C3	0.0148	0.0000
14.303	14.341	13.347	69658	7.17	- C3	0.0148	0.0000
14.512	14.551	13.347	34859	3.59	- C3	0.0148	0.0000
14.619	14.659	13.347	18938	1.95	- C3	0.0148	0.0000
14.708	14.748	13.347	22269	2.29	- C3	0.0148	0.0000
14.850	14.891	13.347	30791	3.17	- C3	0.0148	0.0000
15.108	15.150	13.347	11311	1.16	- C3	0.0148	0.0000
15.388	15.432	13.347	135141	13.91	- C3	0.0148	0.0000
15.619	15.665	13.347	155771	16.03	- C3	0.0148	0.0000
15.823	15.870	13.347	18403	1.89	- C3	0.0148	0.0000
15.966	16.013	13.347	26298	2.70	- C3	0.0148	0.0000
16.099	16.148	13.347	70055	7.21	- C3	0.0148	0.0000
16.272	16.322	0.000	53759	0.00		0.0000	0.0000
16.379	16.429	0.000	111955	0.00		0.0000	0.0000
16.659	16.711	0.000	62605	0.00		0.0000	0.0000
16.783	16.836	0.000	14184	0.00		0.0000	0.0000
16.854	16.908	0.000	27434	0.00		0.0000	0.0000
17.041	17.095	0.000	9581	0.00		0.0000	0.0000
17.188	17.243	0.000	30659	0.00		0.0000	0.0000
17.374	17.431	0.000	38609	0.00		0.0000	0.0000

RT mins	RT Corr	RT Exp	Area uVs	ug/L-ug/kg	Peak name	RF slope	RF intercept
17.597	17.654	0.000	27405	0.00		0.0000	0.0000
17.908	17.967	0.000	2974	0.00		0.0000	0.0000
18.001	18.061	0.000	1965	0.00		0.0000	0.0000

Totals

Unknowns	50625	N/A
Quantified	1050776	192.49
Grand Total	1051401	192.49

MISSING PEAKS

No missing peaks.

PEAK GROUP INFORMATION

Area uVs	ug/L-ug/Kg	Peak name
1585738	139.61	TPH as Gasoline

ANALYSIS SUMMARY

Method..... VOA0A1
Run sequence..... VOA
Calibration..... BTX0703
Internal standard calibration using area
Calibration last modified on 8-JUL-1996 at 10:42

Uncalibrated peaks use user factor (0.0000)

FORM 1
8015 VOA ORGANICS ANALYSIS DATA SHEET

WWC SAMPLE NO.

OGP-1

Lab Name: INCHCAPE TESTING SERVICES Contract:

Lab Code: DALLAS Case No.: SAS No.: SDG No.: GRO7327

Matrix: (soil/water) SOIL Lab Sample ID: 7327-10

Sample wt/vol: 5.000 (g/mL) g Lab File ID: 10JUL1844

Level: (low/med) LOW Date Received: 07/03/96

% Moisture: 19 Date Analyzed: 07/10/96

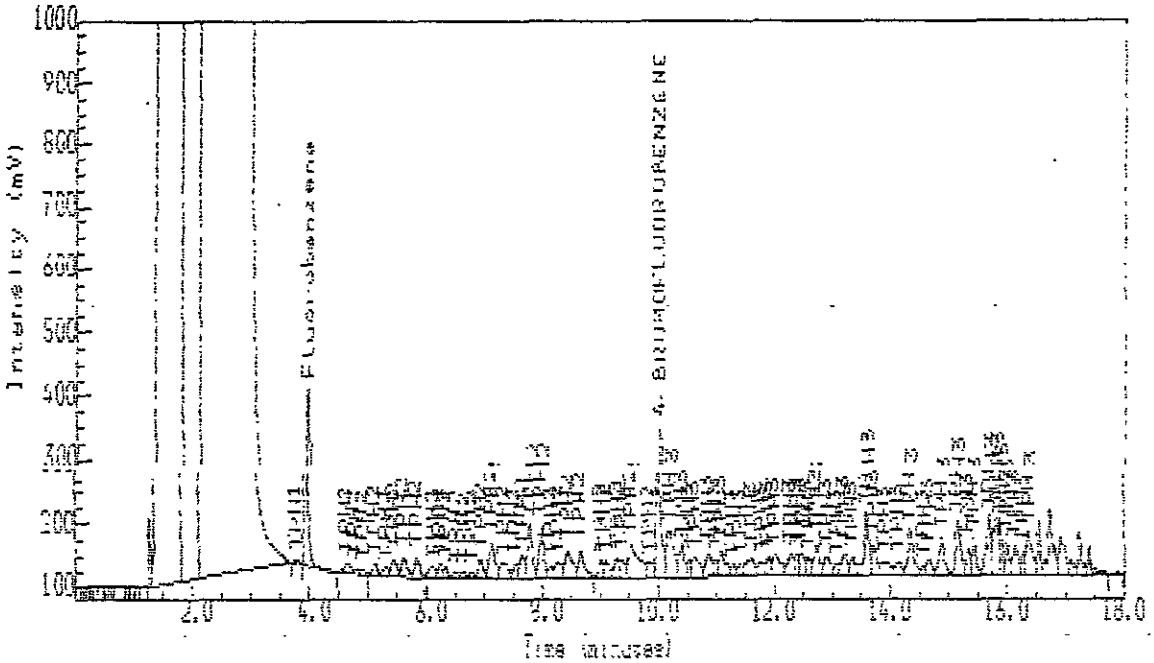
GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 25.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
----------	TPH	25500	

Injection Report

Acquired on 10-JUL-1996 at 18:44



Trancape Testing Services - Dallas

Analyst Name :
Lims Id :
Comment :
Method Title : METHOD 8015
Sample Name : 7327-10 1/25 8020/8025
Sample Id :
Sample Type : Sample Amount=0.00000
Bottle No : S4

PEAK INFORMATION

RT mins	RT Corr	RT Exp	Area uVs	ug/L-ug/Kg	Peak name	RF slope	RF intercept
1.139	1.137	0.000	2583	0.00		0.0000	0.0000
1.201	1.199	0.000	4415	0.00		0.0000	0.0000
1.277	1.275	0.000	248550	0.00		0.0000	0.0000
1.557	1.554	0.000	235492286	0.00		0.0000	0.0000
1.948	1.944	0.000	148185552	0.00		0.0000	0.0000
2.583	2.579	0.000	497499360	0.00		0.0000	0.0000
		3.653	27057	26.70	TPH1	0.0211	0.0000
3.783	3.777	3.653	27057	26.70	- C1	0.0211	0.0000
3.957	3.950	3.950	1131193	986.82	Fluorobenzene	0.0265	0.0000
		6.920	6216426	3743.88	TPH2	0.0345	0.0000
4.632	4.623	6.920	124709	75.11	- C2	0.0345	0.0000
4.770	4.760	6.920	58238	35.07	- C2	0.0345	0.0000

RT name	RT Corr	RT Exp	Area u*s	ug/L-ug/Kg	Peak name	RF slope	RF intercept
4.921	4.910	6.920	42551	25.53	- B2	0.0345	0.0000
5.112	5.101	6.920	109157	65.74	- B2	0.0345	0.0000
5.303	5.291	6.920	97087	58.47	- B2	0.0345	0.0000
5.437	5.424	6.920	199368	120.07	- B3	0.0345	0.0000
5.614	5.601	6.920	226448	136.38	- B2	0.0345	0.0000
5.837	5.822	6.920	194658	117.23	- B2	0.0345	0.0000
6.112	6.096	6.920	132437	79.76	- B2	0.0345	0.0000
6.228	6.211	6.920	102417	61.68	- B2	0.0345	0.0000
6.321	6.304	6.920	82177	49.49	- B2	0.0345	0.0000
6.494	6.477	6.920	54286	32.69	- B2	0.0345	0.0000
6.637	6.618	6.920	58551	35.26	- B2	0.0345	0.0000
6.783	6.764	6.920	47202	28.43	- B2	0.0345	0.0000
6.934	6.915	6.920	163968	98.75	- B2	0.0345	0.0000
7.121	7.101	6.920	403435	242.97	- B2	0.0345	0.0000
7.343	7.322	6.920	248053	149.39	- B2	0.0345	0.0000
7.534	7.512	6.920	120939	72.84	- B2	0.0345	0.0000
7.654	7.632	6.920	226290	136.28	- B2	0.0345	0.0000
7.806	7.782	6.920	514650	309.95	- B2	0.0345	0.0000
7.992	7.968	6.920	457762	275.69	- B2	0.0345	0.0000
8.139	8.119	6.920	101758	61.28	- B3	0.0345	0.0000
8.263	8.238	6.920	209641	126.24	- B2	0.0345	0.0000
8.441	8.415	6.920	379504	228.56	- B2	0.0345	0.0000
8.668	8.641	6.920	329389	198.37	- B3	0.0345	0.0000
9.014	8.986	6.920	154663	93.14	- B2	0.0345	0.0000
9.102	9.074	6.920	152558	91.88	- B2	0.0345	0.0000
9.294	9.265	6.920	202199	121.76	- B3	0.0345	0.0000
9.374	9.349	6.920	171532	103.31	- B2	0.0345	0.0000
9.516	9.495	6.920	690315	415.75	- B3	0.0345	0.0000
9.946	9.813	6.920	170493	102.68	- B3	0.0345	0.0000
10.001	9.968	9.968	1301855		4-BROMOFLUOROBENZENE	1.0000	0.0000
		13.234	12033807	16864.46	TPH3	0.0148	0.0000
10.197	10.163	13.234	726289	1017.24	- B2	0.0148	0.0000
10.406	10.371	13.234	325632	456.35	- B3	0.0148	0.0000
10.539	10.504	13.234	133349	186.88	- B3	0.0148	0.0000
10.619	10.583	13.234	303689	425.60	- B3	0.0148	0.0000
10.854	10.818	13.234	322381	451.76	- B3	0.0148	0.0000
10.988	10.951	13.234	120822	169.32	- B3	0.0148	0.0000
11.077	11.039	13.234	355470	498.16	- B3	0.0148	0.0000
11.277	11.238	13.234	101885	142.78	- B3	0.0148	0.0000
11.414	11.376	13.234	133466	187.04	- B3	0.0149	0.0000
11.610	11.570	13.234	345788	484.59	- B3	0.0148	0.0000
11.766	11.725	13.234	173420	243.03	- B3	0.0148	0.0000
11.899	11.858	13.234	190505	266.98	- B3	0.0148	0.0000
12.014	11.975	13.234	335476	470.14	- B3	0.0148	0.0000
12.294	12.252	13.234	282147	395.41	- B3	0.0148	0.0000
12.401	12.358	13.234	187470	262.73	- B3	0.0148	0.0000
12.477	12.433	13.234	220624	309.05	- B3	0.0148	0.0000
12.579	12.535	13.234	184228	258.18	- B3	0.0148	0.0000
12.720	12.685	13.234	355865	498.72	- B3	0.0148	0.0000
12.912	12.867	13.234	293327	411.07	- B3	0.0148	0.0000
13.077	13.031	13.234	108071	151.45	- B3	0.0148	0.0000
13.214	13.168	13.234	307210	430.53	- B3	0.0148	0.0000
13.352	13.305	13.234	220973	309.68	- B3	0.0148	0.0000

RT mins	RT Corr	RT Exp	Area uVs	ug/L-ug/Kg	Peak name	RF slope	RF intercept
13.606	13.557	13.234	642884	900.55	- C3	0.0148	0.0000
13.721	13.672	13.234	305263	427.80	- C3	0.0148	0.0000
13.894	13.845	13.234	262303	367.60	- C3	0.0148	0.0000
14.139	14.088	13.234	186214	260.96	- C3	0.0148	0.0000
14.352	14.301	13.234	520394	729.29	- C3	0.0148	0.0000
14.574	14.522	13.234	77852	109.10	- C3	0.0148	0.0000
14.663	14.610	13.234	193462	271.12	- C3	0.0148	0.0000
14.890	14.836	13.234	432768	606.49	- C3	0.0148	0.0000
15.161	15.106	13.234	534641	749.26	- C3	0.0148	0.0000
15.339	15.283	13.234	211400	296.26	- C3	0.0148	0.0000
15.437	15.380	13.234	319012	447.08	- C3	0.0148	0.0000
15.703	15.646	13.234	523337	733.26	- C3	0.0148	0.0000
15.823	15.770	13.234	575982	807.19	- C3	0.0148	0.0000
15.890	15.832	13.234	390043	546.47	- C3	0.0148	0.0000
15.992	15.934	13.234	242017	339.17	- C3	0.0148	0.0000
16.117	16.057	13.234	311530	436.59	- C3	0.0148	0.0000
16.268	16.208	13.234	141808	199.73	- C3	0.0148	0.0000
16.370	16.310	13.234	534033	748.41	- C3	0.0148	0.0000
16.543	16.482	0.000	217582	0.00		0.0000	0.0000
16.654	16.593	0.000	104753	0.00		0.0000	0.0000
16.739	16.677	0.000	567684	0.00		0.0000	0.0000
16.726	16.863	0.000	471027	0.00		0.0000	0.0000
17.090	17.027	0.000	153951	0.00		0.0000	0.0000
17.237	17.173	0.000	278439	0.00		0.0000	0.0000
17.352	17.287	0.000	134019	0.00		0.0000	0.0000
17.490	17.425	0.000	24591	0.00		0.0000	0.0000
17.574	17.509	0.000	38334	0.00		0.0000	0.0000
17.748	17.681	0.000	4162	0.00		0.0000	0.0000
17.877	17.810	0.000	12735	0.00		0.0000	0.0000

Totals

Unknowns	SCF	N/C
Quantified	906165276	21521.87
Grand Total	906165952	21521.87

MISSING PEAKS

No missing peaks.

PEAK GROUP INFORMATION

Area uVs	ug/L-ug/Kg	Peak name
18277292	20635.04	TPH as Gasoline

ANALYSIS SUMMARY

Method..... VOA8A1
Run sequence..... VOA
Calibration..... BTX0703
Internal standard calibration using area
Calibration last modified on 11-JUL-1996 at 12:36

Uncalibrated peaks use user factor (0.0000)

FORM 1
8015 VOA ORGANICS ANALYSIS DATA SHEET

WWC SAMPLE NO.

OGP-2

Lab Name: INCHCAPE TESTING SERVICES Contract:

Lab Code: DALLAS Case No.: SAS No.: SDG No.: GRO7327

Matrix: (soil/water) SOIL Lab Sample ID: 7327-11

Sample wt/vol: 5.000 (g/mL) g Lab File ID: 10JUL2021

Level: (low/med) LOW Date Received: 07/03/96

% Moisture: 19 Date Analyzed: 07/11/96

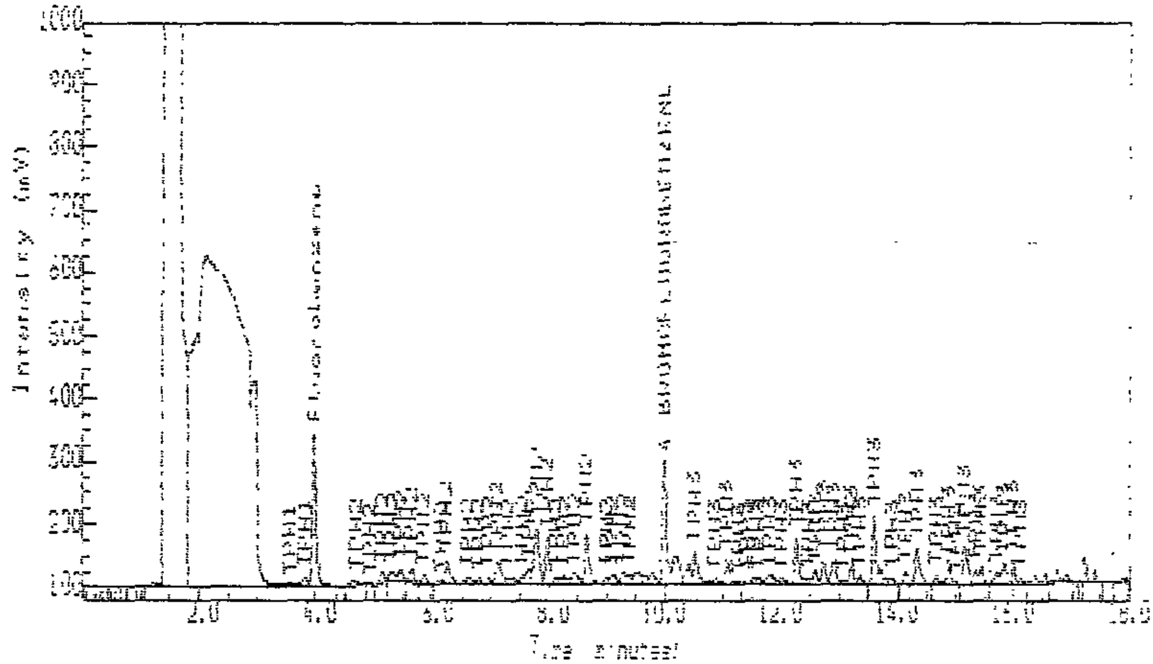
GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
----------	TPH	260000	

Injection Report

Acquired on 11-JUL-1996 at 06:29



Inchcape Testing Services - Dallas

Analyst Name :
Line Id :
Comment : PURGEABLE AROMATICS BY PID/FID
Method Title : METHOD 8015
Sample Name : 7307-1(R 1/500 8020/8015
Sample Id :
Sample Type : Sample   Amount 0.0000
Bottle No : 19

PEAK INFORMATION

RT mins	RT Comp	RT Exp	Area uVs	ug/L-ug/kg	Peak name	RF slope	RF intercept
1.143	1.134	0.000	5303	0.00		0.0000	0.0000
1.210	1.200	0.000	11180	0.00		0.0000	0.0000
1.286	1.275	0.000	32694	0.00		0.0000	0.0000
1.437	1.425	0.000	66460104	0.00		0.0000	0.0000
2.120	2.112	0.000	31929694	0.00		0.0000	0.0000
3.410	3.381	0.000	37208	0.00		0.0000	0.0000
		3.653	103456	2641.66	TPH1	0.0211	0.0000
3.570	3.540	3.653	22864	583.82	- C1	0.0211	0.0000
3.823	3.791	3.653	80592	2057.84	- C1	0.0211	0.0000
3.983	3.950	3.950	1086170	22030.60	Fluorobenzene	0.0265	0.0000
		5.970	3585306	55864.73	TPH2	0.0345	0.0000
4.703	4.672	5.970	84618	1318.45	- C2	0.0345	0.0000

RT mins	RT Corr	RT Exp	Area uVs	ug/L-ug/kg	Peak name	BP slope	BP intercept
4.939	4.908	6.970	4999	71.67	- 02	0.0345	0.0000
5.139	5.108	6.970	62742	977.62	- 02	0.0345	0.0000
5.294	5.264	6.970	83756	1305.05	- 02	0.0345	0.0000
5.446	5.416	6.970	102566	1598.15	- 02	0.0345	0.0000
5.628	5.598	6.970	108253	1686.75	- 02	0.0345	0.0000
5.846	5.817	6.970	79453	1238.00	- 02	0.0345	0.0000
6.126	6.097	6.970	45175	703.90	- 02	0.0345	0.0000
6.237	6.209	6.970	225635	3515.74	- 02	0.0345	0.0000
6.606	6.578	6.970	105781	1648.23	- 02	0.0345	0.0000
6.788	6.761	6.970	47345	737.70	- 02	0.0345	0.0000
6.939	6.912	6.970	80598	1255.85	- 02	0.0345	0.0000
7.117	7.091	6.970	244150	3804.25	- 02	0.0345	0.0000
7.281	7.255	6.970	117231	1828.20	- 02	0.0345	0.0000
7.548	7.523	6.970	66218	1031.79	- 02	0.0345	0.0000
7.654	7.630	6.970	130375	2031.44	- 02	0.0345	0.0000
7.805	7.781	6.970	576860	8994.90	- 02	0.0345	0.0000
7.986	7.964	6.970	402649	6273.91	- 02	0.0345	0.0000
8.126	8.102	6.970	54325	846.48	- 02	0.0345	0.0000
8.259	8.235	6.970	103890	1618.77	- 02	0.0345	0.0000
8.450	8.427	6.970	131722	2052.43	- 02	0.0345	0.0000
8.663	8.641	6.970	412999	6435.41	- 02	0.0345	0.0000
8.806	8.784	6.970	51090	796.06	- 02	0.0345	0.0000
9.103	9.082	6.970	49866	777.00	- 02	0.0345	0.0000
9.286	9.264	6.970	101481	1581.14	- 02	0.0345	0.0000
9.342	9.321	6.970	66801	1072.96	- 02	0.0345	0.0000
9.508	9.487	0.000	15.257	0.00		0.0000	0.0000
9.650	9.630	0.000	9.651	0.00		0.0000	0.0000
9.779	9.759	0.000	121525	0.00		0.0000	0.0000
9.958	9.938	9.968	529078		4-BROMOFLUOROBENZENE	0.0000	0.0000
10.201	10.182	0.000	382809	0.00		0.0000	0.0000
10.397	10.378	0.000	176189	0.00		0.0000	0.0000
		13.347	4210826	152674.64	TARG	0.0146	0.0000
10.512	10.494	13.347	279383	10126.16	- 03	0.0148	0.0000
10.850	10.833	13.347	53175	1926.12	- 03	0.0149	0.0000
11.063	11.046	13.347	203398	7374.72	- 03	0.0148	0.0000
11.419	11.403	13.347	36776	1240.66	- 03	0.0148	0.0000
11.539	11.523	13.347	31347	1136.55	- 03	0.0148	0.0000
11.610	11.594	13.347	37197	1348.67	- 03	0.0146	0.0000
11.792	11.777	13.347	119345	4327.16	- 03	0.0149	0.0000
12.010	11.995	13.347	44362	1608.48	- 03	0.0148	0.0000
12.263	12.249	13.347	358123	12984.71	- 03	0.0148	0.0000
12.477	12.463	13.347	39779	1442.29	- 03	0.0148	0.0000
12.579	12.565	13.347	110296	3999.69	- 03	0.0148	0.0000
12.721	12.708	13.347	169775	6155.63	- 03	0.0148	0.0000
12.699	12.886	13.347	208428	7557.12	- 03	0.0148	0.0000
13.063	13.051	13.347	22736	824.37	- 03	0.0148	0.0000
13.206	13.194	13.347	135064	4897.11	- 03	0.0149	0.0000
13.343	13.332	13.347	55584	2015.35	- 03	0.0148	0.0000
13.592	13.581	13.347	540499	19975.71	- 03	0.0146	0.0000
13.894	13.884	13.347	51904	1881.92	- 03	0.0148	0.0000
14.134	14.125	13.347	83296	3020.12	- 03	0.0148	0.0000
14.339	14.329	13.347	303555	11006.19	- 03	0.0148	0.0000
14.654	14.646	13.347	54983	1993.56	- 03	0.0148	0.0000

RT mins	RT Corr	RT Exp	Area uVs	ug/L-ug/kg	Peak name	SF slope	SF intercept
14.877	14.868	13.347	155274	5629.86	- C3	0.0148	0.0000
15.001	14.993	13.347	12394	449.38	- C3	0.0148	0.0000
15.157	15.149	13.347	342140	12405.18	- C3	0.0148	0.0000
15.334	15.327	13.347	88518	3209.45	- C3	0.0145	0.0000
15.422	15.425	13.347	131907	4782.65	- C3	0.0146	0.0000
15.699	15.593	13.347	90986	3298.93	- C3	0.0148	0.0000
15.823	15.817	13.347	225448	8174.21	- C3	0.0148	0.0000
15.992	15.987	13.347	116225	4214.06	- C3	0.0148	0.0000
16.121	16.115	13.347	40594	1471.86	- C3	0.0148	0.0000
16.272	16.267	0.000	12796	0.00		0.0000	0.0000
16.370	16.365	0.000	18575	0.00		0.0000	0.0000
16.546	16.542	0.000	52027	0.00		0.0000	0.0000
16.734	16.731	0.000	83771	0.00		0.0000	0.0000
16.899	16.895	0.000	51831	0.00		0.0000	0.0000
17.232	17.229	0.000	112094	0.00		0.0000	0.0000
17.397	17.394	0.000	52527	0.00		0.0000	0.0000
17.628	17.626	0.000	5122	0.00		0.0000	0.0000
17.881	17.880	0.000	7603	0.00		0.0000	0.0000

Totals		
Unknowns	13479	N/A
Quantified	109751776	232211.64
Grand Total	109765256	232211.64

MISSING PEAKS

No missing peaks.

PEAK GROUP INFORMATION

Area uVs	ug/L-ug/kg	Peak name
7899590	211151.11	TPH as Gasoline

ANALYSIS SUMMARY

Method.............................. VOAOA1
Run sequence........................ VOA1
Calibration......................... BTX0703
Internal standard calibration using area
Calibration last modified on 8-JUL-1996 at 16:42

Uncalibrated peaks use user factor (0.0000)

FORM 1
8015 VOA ORGANICS ANALYSIS DATA SHEET

WWC SAMPLE NO.

OGP-3

Lab Name: INCHCAPE TESTING SERVICES Contract:

Lab Code: DALLAS Case No.: SAS No.: SDG No.: GRO7327

Matrix: (soil/water) SOIL Lab Sample ID: 7327-12

Sample wt/vol: 5.000 (g/mL) g Lab File ID: 10JUL1731

Level: (low/med) LOW Date Received: 07/03/96

% Moisture: 20 Date Analyzed: 07/10/96

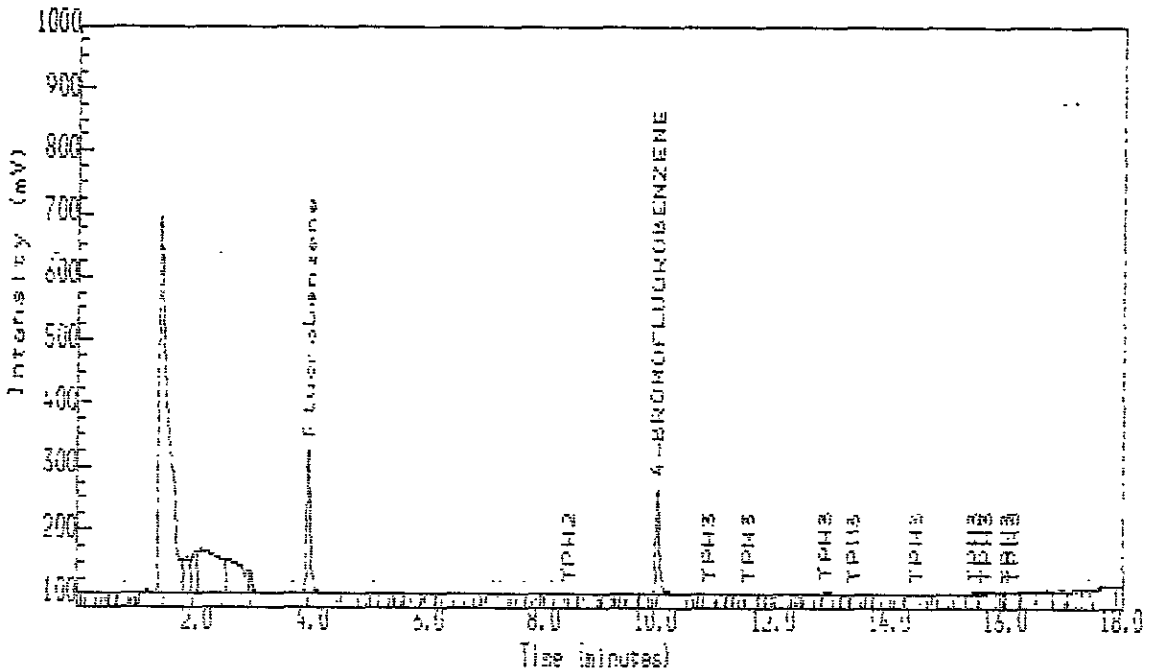
GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
----------	TPH	62	U

Injection Report

Acquired on 10-JUL-1996 at 17:31



Ironcape Testing Services - Dallas

Analyst Name :
Lims Id :
Comment :
Method Title : METHOD 8015
Sample Name : 7327-12 SG 8020/8015
Sample Id. :
Sample Type : Sample Amount=0.00000
Bottle No : 52

PEAK INFORMATION

RT mins	RT Corr	RT Exp	Area uVs	ug/L-ug/Kg	Peak name	RF slope	RF intercept
1.152	1.136	0.000	3909	0.00		0.0000	0.0000
1.214	1.198	0.000	15993	0.00		0.0000	0.0000
1.294	1.276	0.000	5633	0.00		0.0000	0.0000
1.441	1.421	0.000	2423602	0.00		0.0000	0.0000
1.930	1.903	0.000	496227	0.00		0.0000	0.0000
2.086	2.057	0.000	467462	0.00		0.0000	0.0000
2.139	2.109	0.000	1707588	0.00		0.0000	0.0000
2.623	2.587	0.000	1074745	0.00		0.0000	0.0000
3.001	2.959	0.000	139000	0.00		0.0000	0.0000
3.223	3.179	0.000	14906	0.00		0.0000	0.0000
4.006	3.950	3.950	1010350	51.09	Fluorobenzene	0.0265	0.0000
		6.970	13965	0.54	TPH2	0.0345	0.0000

RT mins	RT Corr	RT Exp	Area uVs	ug/L-ug/kg	Peak name	RF slope	RF intercept
10.019	9.968	9.968	745514		4-BROMOFLUOROBENZENE	1.0000	0.0000
		13.347	86018	7.77	TPH3	0.0148	0.0000
12.877	12.829	13.347	27595	2.49	- C3	0.0148	0.0000
14.454	14.408	13.347	12536	1.13	- C3	0.0148	0.0000
15.441	15.395	13.347	5946	0.54	- C2	0.0148	0.0000
16.677	16.632	0.000	12363	0.00		0.0000	0.0000
16.912	16.867	0.000	11553	0.00		0.0000	0.0000
17.410	17.366	0.000	7242	0.00		0.0000	0.0000
17.574	17.530	0.000	5343	0.00		0.0000	0.0000
17.641	17.597	0.000	7951	0.00		0.0000	0.0000
17.783	17.739	0.000	2188	0.00		0.0000	0.0000

Totals

Unknowns	69773	N/A
Quantified	12253170	59.39
Grand Total	12322943	59.39

MISSING PEAKS

No missing peaks.

PEAK GROUP INFORMATION

Area uVs	ug/L-ug/kg	Peak name
103223	8.52	TPH as Gasoline

ANALYSIS SUMMARY

Method..... VOA8021
Run sequence..... VOA
Calibration..... STX0703
Internal standard calibration using area
Calibration last modified on 8-JUL-1996 at 16:42

Uncalibrated peaks use user factor (0.0000)

FORM 1
8015 VOA ORGANICS ANALYSIS DATA SHEET

WWC SAMPLE NO.

GPSTP-1

Lab Name: INCHCAPE TESTING SERVICES Contract:

Lab Code: DALLAS Case No.: SAS No.: SDG No.: GRO7327

Matrix: (soil/water) SOIL Lab Sample ID: 7327-14

Sample wt/vol: 5.000 (g/mL) g Lab File ID: 10JUL1755

Level: (low/med) LOW Date Received: 07/03/96

% Moisture: 16 Date Analyzed: 07/10/96

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

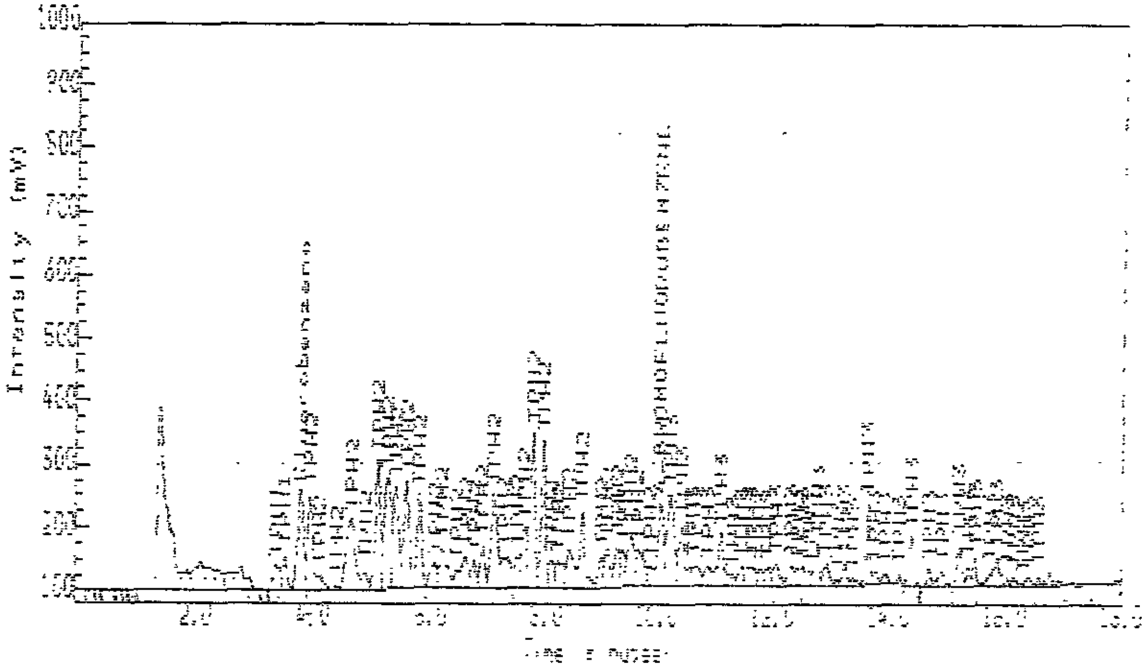
Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
----------	TPH	1640	

[070896] 28 VOA070996A,61,1
Reported on 11-JUL-1996 at 12:37

Injection Report

Acquired on 10-JUL-1996 at 17.55



Inchcape Testing Services - Dallas

Analyst Name :
Lims Id :
Comment :
Method Title : METHOD 8015
Sample Name : 7327-14 DG 8020/8015
Sample Id :
Sample Type : Sample Amount=0.0000
Bottle No : 52

PEAK INFORMATION

RT mins	RT Corr	RT Exp	Area uVs	ug/L-ug/Kg	Peak name	RF slope	RF intercept
1.161	1.187	0.000	4732	0.00		0.0000	0.0000
1.228	1.255	0.000	14093	0.00		0.0000	0.0000
1.303	1.333	0.000	6740	0.00		0.0000	0.0000
1.450	1.483	0.000	3160251	0.00		0.0000	0.0000
1.939	1.982	0.000	253339	0.00		0.0000	0.0000
2.170	2.219	0.000	572407	0.00		0.0000	0.0000
2.312	2.364	0.000	305206	0.00		0.0000	0.0000
2.472	2.528	0.000	296903	0.00		0.0000	0.0000
2.632	2.691	0.000	266751	0.00		0.0000	0.0000
2.654	2.918	0.000	427115	0.00		0.0000	0.0000

[070896] 28 VOA070996A.61,1
Reported on 11-JUL-1996 at 12:37

RT mins	RT Corr	RT Exp	Area uVs	ug/L-ug/Kg	Peak name	RF slope	RF intercept
3.601	3.582	3.653	300387	15.69	- C1	0.1211	0.0000
3.863	3.750	3.950	1074884	44.60	Fluorobenzene	0.0265	0.0000
		6.920	20660482	638.53	TPHG	0.0345	0.0000
4.023	4.106	6.920	855976	27.26	- C2	0.0345	0.0000
4.197	4.274	6.920	172652	5.50	- C2	0.0345	0.0000
4.494	4.564	6.920	20250	0.65	- C2	0.0345	0.0000
4.739	4.802	6.920	1141324	36.38	- C2	0.0345	0.0000
4.974	5.031	6.920	175930	5.61	- C2	0.0345	0.0000
5.179	5.230	6.920	1203331	38.35	- C2	0.0345	0.0000
5.352	5.398	6.920	1470356	46.87	- C2	0.0345	0.0000
5.481	5.524	6.920	1116314	35.58	- C2	0.0345	0.0000
5.663	5.701	6.920	1177532	37.53	- C2	0.0345	0.0000
5.886	5.917	6.920	861697	27.47	- C2	0.0345	0.0000
6.157	6.181	6.920	345067	11.10	- C2	0.0345	0.0000
6.272	6.293	6.920	547765	17.46	- C2	0.0345	0.0000
6.539	6.553	6.920	168142	5.37	- C2	0.0345	0.0000
6.681	6.691	6.920	408831	13.03	- C2	0.0345	0.0000
6.828	6.834	6.920	249287	7.95	- C2	0.0345	0.0000
6.974	6.976	6.920	411575	13.12	- C2	0.0345	0.0000
7.157	7.154	6.920	1115034	35.54	- C2	0.0345	0.0000
7.339	7.331	6.920	542896	17.31	- C2	0.0345	0.0000
7.579	7.564	6.920	276234	8.87	- C2	0.0345	0.0000
7.694	7.677	6.920	540170	17.28	- C2	0.0345	0.0000
7.841	7.820	6.920	1643111	52.37	- C2	0.0345	0.0000
8.028	8.001	6.920	1297686	41.36	- C2	0.0345	0.0000
8.174	8.144	6.920	270717	8.63	- C2	0.0345	0.0000
8.290	8.256	6.920	383063	12.21	- C2	0.0345	0.0000
8.481	8.442	6.920	563066	17.95	- C2	0.0345	0.0000
8.703	8.658	6.920	791985	25.23	- C2	0.0345	0.0000
9.046	8.991	6.920	267518	8.53	- C2	0.0345	0.0000
9.142	9.086	6.920	416459	13.28	- C2	0.0345	0.0000
9.316	9.264	6.920	442366	14.10	- C2	0.0345	0.0000
9.423	9.359	6.920	323364	10.31	- C2	0.0345	0.0000
9.552	9.484	6.920	714252	22.77	- C2	0.0345	0.0000
9.681	9.609	6.920	519091	16.55	- C2	0.0345	0.0000
9.881	9.804	6.920	216432	6.90	- C2	0.0345	0.0000
10.050	9.768	9.952	[illegible]		4-BROMOFLUOROBENZENE	[illegible]	0.0000
		13.234	[illegible]	689.10	TPHG	0.0148	0.0000
10.237	10.150	13.234	1280965	95.01	- C3	0.0148	0.0000
10.432	10.340	13.234	705192	52.30	- C3	0.0148	0.0000
10.592	10.496	13.234	168255	12.48	- C3	0.0148	0.0000
10.680	10.582	13.234	298540	22.14	- C3	0.0148	0.0000
10.881	10.777	13.234	247392	18.35	- C3	0.0148	0.0000
11.103	10.993	13.234	682266	50.60	- C3	0.0148	0.0000
11.308	11.192	13.234	87716	6.51	- C3	0.0148	0.0000
11.463	11.343	13.234	212426	15.76	- C3	0.0148	0.0000
11.574	11.451	13.234	149563	11.09	- C3	0.0148	0.0000
11.632	11.507	13.234	221503	16.43	- C3	0.0148	0.0000
11.797	11.667	13.234	185259	13.74	- C3	0.0148	0.0000
11.917	11.784	13.234	189370	14.05	- C3	0.0148	0.0000
12.046	11.910	13.234	287657	21.33	- C3	0.0148	0.0000

575

RT area	RT Corr	RT Exp	Area uVs	ug/L-ug/Kg	Peak name	RF gloss	RF intersect
12.312	12.3e4	13.234	167669	12.41	- 05	0.0148	0.0020
12.628	12.476	13.234	118843	8.81	- 03	0.0148	0.0000
12.761	12.606	13.234	339387	25.17	- 03	0.0148	0.0000
12.917	12.757	13.234	229513	17.09	- 03	0.0148	0.0000
13.108	12.943	13.234	45275	3.36	- 03	0.0148	0.0000
13.241	13.073	13.234	191357	14.22	- 03	0.0148	0.0000
13.385	13.211	13.234	66251	5.46	- 03	0.0148	0.0000
13.632	13.453	13.234	596e32	44.19	- 03	0.0148	0.0000
13.752	13.570	13.234	141072	10.46	- 03	0.0148	0.0000
13.934	13.747	13.234	117249	8.71	- 03	0.0148	0.0000
14.174	13.981	13.234	72699	5.38	- 03	0.0148	0.0000
14.379	14.179	13.234	393518	29.19	- 03	0.0148	0.0000
14.691	14.486	13.234	119913	8.82	- 03	0.0148	0.0000
14.912	14.698	13.234	195591	14.51	- 03	0.0148	0.0000
15.201	14.979	13.234	388802	28.84	- 03	0.0148	0.0000
15.361	15.135	13.234	132744	9.85	- 03	0.0148	0.0000
15.468	15.239	13.234	185047	13.72	- 03	0.0148	0.0000
15.730	15.494	13.234	110406	8.19	- 03	0.0148	0.0000
15.850	15.610	13.234	301375	22.36	- 03	0.0148	0.0000
16.019	15.775	13.234	e3503	5.05	- 03	0.0148	0.0000
16.143	15.896	13.234	e4191	4.76	- 03	0.0148	0.0000
16.299	16.047	13.234	165e7	1.23	- 03	0.0148	0.0000
16.397	16.142	13.234	921e4	1.84	- 03	0.0148	0.0000
16.570	16.311	13.234	53565	3.97	- 03	0.0148	0.0000
16.677	16.415	0.000	16857	0.00		0.0000	0.0000
16.761	16.497	0.000	74571	0.00		0.0000	0.0000
16.957	16.687	0.000	46238	0.00		0.0000	0.0000
17.277	16.998	0.000	12050	0.00		0.0000	0.0000
17.348	17.067	0.000	4663	0.00		0.0000	0.0000
17.419	17.137	0.000	12e4	0.00		0.0000	0.0000
17.517	17.232	0.000	323	0.00		0.0000	0.0000
17.654	17.3e6	0.000	12500	0.00		0.0000	0.0000
17.792	17.500	0.000	2341	0.00		0.0000	0.0000
17.899	17.604	0.000	3224	0.00		0.0000	0.0000

Totals

Unknowns	9003	N/A
Quantified	38024103	1423.1
Grand Total	38033112	1423.1

MISSING PEAKS

No missing peaks.

PEAK GROUP INFORMATION

Area uVs	ug/L-ug/Kg	Peak name
30341966	1378.52	TPH as Gasoline

ANALYSIS SUMMARY

Method..... VOAG-1
Run sequence..... VOA
Calibration..... BTXG703
Internal standard calibration using area
Calibration last modified on 11-JUL-1996 at 12:25

Uncalibrated peaks use user factor (0.0000)

FORM 1
8015 VOA ORGANICS ANALYSIS DATA SHEET

WWC SAMPLE NO.

GPSTP-2

Lab Name: INCHCAPE TESTING SERVICES Contract:

Lab Code: DALLAS Case No.: SAS No.: SDG No.: GRO7327

Matrix: (soil/water) SOIL Lab Sample ID: 7327-15

Sample wt/vol: 5.000 (g/mL) g Lab File ID: 10JUL1327

Level: (low/med) LOW Date Received: 07/03/96

% Moisture: 18 Date Analyzed: 07/10/96

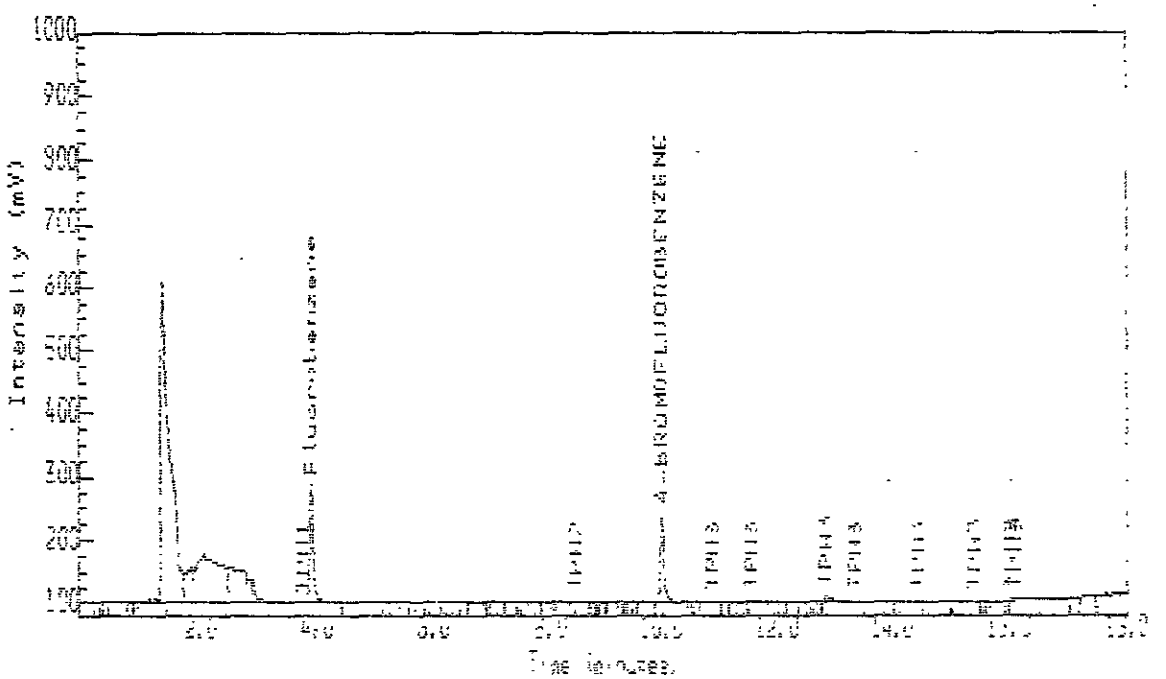
GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
----------	TPH	61	U

Injection Report

Acquired on 10-JUL-1996 at 13:27



Inorganic Testing Services - Dallas

Analyst Name :
Lims Id :
Comment :
Method Title : METHOD 8015
Sample Name : 7327-15 SB 8020/2015
Sample Id :
Sample Type : Sample Amount=0.00000
Bottle No : 46

PEAK INFORMATION

RT ajne	RT Corr	RT Exp	Area uVs	ug/L-ug/Kg	Peak name	RT since	TF increment
1.143	1.131	0.000	6347	0.00		0.0000	0.0000
1.210	1.197	0.000	12406	0.00		0.0000	0.0000
1.290	1.276	0.000	18200	0.00		0.0000	0.0000
1.437	1.421	0.000	5330280	0.00		0.0000	0.0000
1.921	1.901	0.000	487129	0.00		0.0000	0.0000
2.134	2.112	0.000	2370747	0.00		0.0000	0.0000
2.606	2.578	0.000	1172340	0.00		0.0000	0.0000
2.997	2.965	0.000	178054	0.00		0.0000	0.0000
		3.653	5724	0.44	TPH1	0.0211	0.0000
3.992	3.950	3.950	813068	49.56	Fluorobenzene	0.0265	0.0000

RT mins	RT Corr	RT Exp	Area uVs	ug/L-ug/Kg	Peak name	RF slope	RF intercept
		13.347	94582	10.24	TPH3	0.0148	0.0000
10.877	10.855	13.347	6920	0.75	- C3	0.0148	0.0000
12.841	12.826	13.347	47812	5.18	- C3	0.0148	0.0000
14.423	14.413	13.347	10676	1.16	- C3	0.0148	0.0000
16.650	16.646	0.000	29608	0.00		0.0000	0.0000
16.890	16.887	0.000	11941	0.00		0.0000	0.0000
17.379	17.378	0.000	6731	0.00		0.0000	0.0000
17.552	17.551	0.000	3807	0.00		0.0000	0.0000
17.619	17.618	0.000	6124	0.00		0.0000	0.0000

Totals

Unknowns	56143	N/A
Quantified	11177367	10.79
Grand Total	11233510	10.79

MISSING PEAKS

No missing peaks.

PEAK GROUP INFORMATION

Area uVs	ug/L-ug/Kg	Peak name
112260	11.24	TPH as Gasoline

ANALYSIS SUMMARY

Method..... VOAC41
Run sequence..... VOA
Calibration..... STX0703
Internal standard calibration using area
Calibration last modified on 8-JUL-1996 at 16:42

Uncalibrated peaks use user factor (0.0000)

Inchcape Testing Services
Environmental Laboratories

TOTAL EXTRACTABLE PETROLEUM HYDROCARBONS DATA

QUALITY CONTROL SUMMARY

FORM 2
SOIL 8015M_DRO SURROGATE RECOVERY

Lab Name: INCHCAPE TESTING SERVICES Contract:

Lab Code: DALLAS Case No.: SAS No.: SDG No.: TPH7327

Level:(low/med) LOW

	WOODWARD CLYDE SAMPLE NO.	S1 #	S2 #	S3 #	S4 #	S5 #	S6 #	S7 #	TOT OUT
01	BLK	101							0
02	BLKBS	99.4							0
03	BLKBSD	105							0
04	WO-1MS	104							0
05	WO-1MSD	93.4							0
06	WO-1	107							0
07	CPD-1	93.0							0
08	CPD-2	98.2							0
09	CPG-1	106							0
10	CPG-2	97.7							0
11	MOP-1	101							0
12	MOP-2	95.8							0
13	DP-1	90.9							0
14	DP-2	97.8							0
15	OGP-1	105							0
16	OGP-2	94.4							0
17									
18									
19									
20									

QC LIMITS

S1 = TRIACONTANE (60-140)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

FORM 2
SOIL 8015M_DRO SURROGATE RECOVERY

Lab Name: INCHCAPE TESTING SERVICES Contract:

Lab Code: DALLAS Case No.: SAS No.: SDG No.: TPH7327

Level: (low/med) LOW

	WOODWARD CLYDE SAMPLE NO.	S1 #	S2 #	S3 #	S4 #	S5 #	S6 #	S7 #	TOT OUT
01	BLK2	88.6							0
02	BLKBS2 AA 8/14/96	89.2							0
03	BLKBSD2	84.4							0
04	7345-3MS	88.5							0
05	7345-3MSD	85.6							0
06	7345-3	97.8							0
07	OGP-3	86.0							0
08	DSTP-1	79.1							0
09	GPSTP-1	77.3							0
10	GPSTP-2	89.9							
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									

QC LIMITS

S1 = TRIACONTANE (60-140)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

FORM 2
SOIL 8015M_DRO SURROGATE RECOVERY

Lab Name: INCHCAPE TESTING SERVICES Contract:

Lab Code: DALLAS Case No.: SAS No.: SDG No.: TPH7327

Level: (low/med) LOW

	WOODWARD CLYDE SAMPLE NO.	S1 #	S2 #	S3 #	S4 #	S5 #	S6 #	S7 #	TOT OUT
01	BLK3	93.5							0
02	BLKBS3 AA 8/14/96	98.2							0
03	BLKBSD3	96.2							0
04	7465-31MS	91.1							0
05	7465-31MSD	105							0
06	7465-31	101							0
07	7327-2	93.0							0
08									
09									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									

QC LIMITS

S1 = TRIACONTANE (60-140)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

FORM 3

SOIL 8015M_DRO MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: INCHCAPE TESTING SERVICES Contract:

Lab Code: DALLAS Case No.: SAS No.: SDG No.: TPH7327

Matrix Spike - WOODWARD CLYDE Sample No.: WO-1 Level:(low/med) LOW

COMPOUND	SPIKE ADDED (mg/Kg)	SAMPLE CONCENTRATION (mg/Kg)	MS CONCENTRATION (mg/Kg)	MS % REC #	QC. LIMITS REC.
TPH AS DIESEL	101	0.00	111	111	60-140

COMPOUND	SPIKE ADDED (mg/Kg)	MSD CONCENTRATION (mg/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
TPH AS DIESEL	101	100	100	10	25	60-140

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 1 out of 1 outside limits
Spike Recovery: 2 out of 2 outside limits

COMMENTS: _____

FORM 3
WATER 8015M_DRO BLANK SPIKE RECOVERY

Lab Name: INCHCAPE TESTING SERVICES Contract:

Lab Code: DALLAS Case No.: SAS No.: SDG No.: TPH7327

Matrix Spike - WOODWARD CLYDE Sample No.: BLK Level:(low/med) LOW

COMPOUND	SPIKE ADDED (mg/Kg)	BLANK CONCENTRATION (mg/Kg)	BS CONCENTRATION (mg/Kg)	BS % REC #	QC. LIMITS REC.
TPH AS DIESEL	83.3	0.000	86.9	104	60-140

COMPOUND	SPIKE ADDED (mg/Kg)	BSD CONCENTRATION (mg/Kg)	BSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
TPH AS DIESEL	83.3	96.9	116	11	25	60-140

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 1 outside limits
Spike Recovery: 0 out of 2 outside limits

COMMENTS: _____

FORM 3
SOIL 8015M_DRO MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: INCHCAPE TESTING SERVICES Contract:

Lab Code: DALLAS Case No.: SAS No.: SDG No.: TPH7096

Matrix Spike - WOODWARD CLYDE Sample No.: 7345-3 Level: (low/med) LOW

COMPOUND	SPIKE ADDED (mg/Kg)	SAMPLE CONCENTRATION (mg/Kg)	MS CONCENTRATION (mg/Kg)	MS % REC #	QC. LIMITS REC.
TPH AS DIESEL	83.3	95.1	208	135	60-140

COMPOUND	SPIKE ADDED (mg/Kg)	MSD CONCENTRATION (mg/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
TPH AS DIESEL	83.3	206	133	1	25	60-140

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 1 out of 1 outside limits
Spike Recovery: 2 out of 2 outside limits

COMMENTS: _____

FORM 3
WATER 8015M_DRO BLANK SPIKE RECOVERY

Lab Name: INCHCAPE TESTING SERVICES Contract:

Lab Code: DALLAS Case No.: SAS No.: SDG No.: TPH7327

Matrix Spike - WOODWARD CLYDE Sample No.: BLK2 Level:(low/med) LOW

COMPOUND	SPIKE ADDED (mg/Kg)	BLANK CONCENTRATION (mg/Kg)	BS CONCENTRATION (mg/Kg)	BS % REC #	QC. LIMITS REC.
TPH AS DIESEL	83.3	0.000	65.1	107	60-140

COMPOUND	SPIKE ADDED (mg/Kg)	BSD CONCENTRATION (mg/Kg)	BSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
TPH AS DIESEL	83.3	84.4	64.7	1	25	60-140

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 1 outside limits
Spike Recovery: 0 out of 2 outside limits

COMMENTS: _____

FORM 3
SOIL 8015M_DRO MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: INCHCAPE TESTING SERVICES Contract:

Lab Code: DALLAS Case No.: SAS No.: SDG No.: TPH7327

Matrix Spike - WOODWARD CLYDE Sample No.: 7456-31 Level:(low/med) LOW

COMPOUND	SPIKE ADDED (mg/Kg)	SAMPLE CONCENTRATION (mg/Kg)	MS CONCENTRATION (mg/Kg)	MS % REC #	QC. LIMITS REC.
TPH AS DIESEL	83.3	18.7	93.0	89.1	60-140

COMPOUND	SPIKE ADDED (mg/Kg)	MSD CONCENTRATION (mg/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
TPH AS DIESEL	83.3	105	104	12	25	60-140

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 1 out of 1 outside limits
Spike Recovery: 2 out of 2 outside limits

COMMENTS: _____

FORM 3
WATER 8015M_DRO BLANK SPIKE RECOVERY

Lab Name: INCHCAPE TESTING SERVICES Contract:

Lab Code: DALLAS Case No.: SAS No.: SDG No.: TPH7327

Matrix Spike - WOODWARD CLYDE Sample No.: BLK3 Level:(low/med) LOW

COMPOUND	SPIKE ADDED (mg/Kg)	BLANK CONCENTRATION (mg/Kg)	BS CONCENTRATION (mg/Kg)	BS % REC #	QC. LIMITS REC.
TPH AS DIESEL	83.3	0.000	89.0	107	60-140

COMPOUND	SPIKE ADDED (mg/Kg)	BSD CONCENTRATION (mg/Kg)	BSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
TPH AS DIESEL	83.3	91.9	110	3	25	60-140

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 1 outside limits
Spike Recovery: 0 out of 2 outside limits

COMMENTS: _____

FORM 4
8015M_DRO METHOD BLANK SUMMARY

RUST LICHLITER SAMPLE NO.

BLK

Lab Name: INCHCAPE TESTING SERVICES Contract:

Lab Code: DALLAS Case No.: SAS No.: SDG No.: TPH7327

Lab File ID: 09JUL2134709 Lab Sample ID: BLK

Instrument ID: MULTI17 Date Extracted: 07/08/96

Matrix: (soil/water) SOIL Date Analyzed: 07/09/96

Level:(low/med) LOW Time Analyzed: 2134

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	WOODWARD CLYDE SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	BLKBS	7327-20	09JUL2205709	07/09/96
02	BLKBSD	BLKBSD	09JUL2237709	07/09/96
03	WO-1MS	7327-18	09JUL2308709	07/09/96
04	WO-1MSD	7327-19	09JUL2340709	07/09/96
05	WO-1	7327-1	10JUL0011710	07/09/96
06	CPD-2	7327-3	10JUL0114710	07/10/96
07	CPG-1	7327-4	10JUL0145710	07/10/96
08	CPG-2	7327-5	10JUL0217710	07/10/96
09	MOP-1	7327-6	10JUL0628710	07/10/96
10	MOP-2	7327-7	10JUL0659710	07/10/96
11	DP-1	7327-8	11JUL0711711	07/11/96
12	DP-2	7327-9	10JUL0802710	07/10/96
13	OGP-1	7327-10	10JUL0320710	07/10/96
14	OGP-2	7327-11	10JUL0351710	07/10/96
15				
16				
17				
18				

COMMENTS:

FORM IV 8015M_DRO

FORM 4
8015M_DRO METHOD BLANK SUMMARY

RUST LICHLITER SAMPLE NO.

BLK2

Lab Name: INCHCAPE TESTING SERVICES Contract:

Lab Code: DALLAS Case No.: SAS No.: SDG No.: TPH7327

Lab File ID: 11JUL1110711 Lab Sample ID: BLK

Instrument ID: MULTI17 Date Extracted: 07/09/96

Matrix: (soil/water) SOIL Date Analyzed: 07/11/96

Level: (low/med) LOW Time Analyzed: 1110

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	WOODWARD CLYDE SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	BLKBS2 AH 8/14/96	7327-20/2	11JUL1110711	07/11/96
02	BLKBSD2	BLKBSD	11JUL1142711	07/11/96
03	7345-3MS	7345-3MS	11JUL1214711	07/11/96
04	7345-3MSD	7345-3MSD	11JUL1245711	07/11/96
06	OGP-3	7327-12	11JUL1758711	07/11/96
07	DSTP-1	7327-13	11JUL1830711	07/11/96
08	GPSTP-1	7327-14	11JUL1902711	07/11/96
09	GPSTP-2	7327-15	11JUL1933711	07/11/96
10				
11				
12				

COMMENTS:

FORM IV 8015M_DRO

FORM 4
8015M_DRO METHOD BLANK SUMMARY

RUST LICHLITER SAMPLE NO.

BLK3

Lab Name: INCHCAPE TESTING SERVICES Contract:

Lab Code: DALLAS Case No.: SAS No.: SDG No.: TPH7327

Lab File ID: 28JUN1110628 Lab Sample ID: BLK

Instrument ID: MULTI17 Date Extracted: 07/11/96

Matrix: (soil/water) WATER Date Analyzed: 07/12/96

Level: (low/med) LOW Time Analyzed: 1003

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	RUST LICHLITER SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	BLKBS3 AH 8/14/96	7327-20/3	12JUL1033712	07/12/96
02	BLKBSD3	BLKBSD	12JUL1104712	07/12/96
03	7456-31MS	7456-31MS	12JUL1135712	07/12/96
04	7456-31MSD	7456-31MSD	12JUL1206712	07/12/96
05	7456-31	7456-31	12JUL1237712	07/12/96
06	CPD-1	7327-2	15JUL1417715	07/15/96
07				
08				
09				
10				
11				
12				

COMMENTS:

FORM IV 8015M_DRO

SAMPLE DATA

FORM 1 WOODWARD CLYDE SAMPLE NO.

8015M_DRO ORGANICS ANALYSIS DATA SHEET

WO-1

Lab Name: INCHCAPE TESTING SERVICES Contract:

Lab Code: DALLAS Case No.: SAS No.: SDG No.: TPH7327

Matrix: (soil/water) SOIL Lab Sample ID: 7327-1

Sample wt/vol: 30 (g/mL) G Lab File ID: 10JUL0011710

Level: (low/med) LOW Date Received: 07/03/96

% Moisture: 17.8 decanted: (Y/N) N Date Extracted:07/08/96

Concentrated Extract Volume: 5(mL) Date Analyzed: 07/10/96

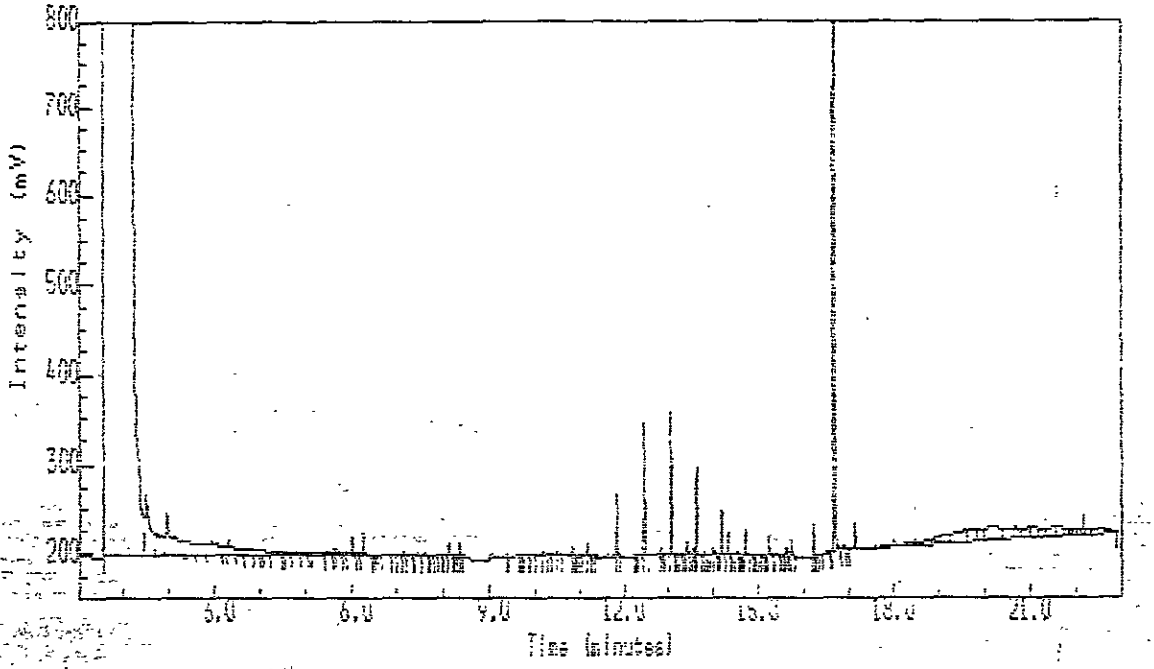
Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: MG/KG	Q
	TPH AS DIESEL	12.2	U

Injection Report

Acquired on 10-JUL-1996 at 00:11



Anchaspe Testing Services - Dallas

Analyst Name : Tana A. Langley
Lane Id : [illegible]
Comment : TPH BY 8015
Method Title : TPH BY METHOD 8015 mod
Sample Name : 7327-1[illegible] 30/5 AB615-23
Sample Id : [illegible]
Sample Type : Sample Amount=0.00000
Bottle No : : 17

TPH <10
Sum 107%
MTL 7-10-96

PEAK INFORMATION

RT mins	RT Corr	RT Exp	Hght uV	Area uVs	MG/L-MG/KG	Peak name	RF slope	RF intercept
		8.640	946826	2854950	2.591	TPH AS DIESEL	184173.8906	0.0000
2.441	2.441	8.640	16248	142457	0.129	- D1	184173.8906	0.0000
2.614	2.614	8.640	14722	201548	0.182	- D1	184173.8906	0.0000
2.943	2.943	8.640	14917	262614	0.239	- D1	184173.8906	0.0000
3.192	3.192	8.640	10821	71854	0.065	- D1	184173.8906	0.0000
3.317	3.317	8.640	15471	118338	0.108	- D1	184173.8906	0.0000
3.503	3.503	8.640	8423	95757	0.087	- D1	184173.8906	0.0000
3.699	3.699	8.640	8492	86111	0.077	- D1	184173.8906	0.0000
3.917	3.917	8.640	7014	62233	0.056	- D1	184173.8906	0.0000
4.037	4.037	8.640	5661	24663	0.022	- D1	184173.8906	0.0000
4.103	4.103	8.640	6547	47704	0.043	- D1	184173.8906	0.0000
4.250	4.250	8.640	4985	76227	0.069	- D1	184173.8906	0.0000

mine RT	Corr RT	Exp	Heat uW	Area uVs	mg/-bg/kg	Peak name	RF slope	RF intercept
4.512	4.512	8.640	4265	14471	0.013	- C1	184173.8906	0.0000
4.659	4.650	8.640	5188	44142	0.040	- C1	184173.8906	0.0000
4.726	4.726	8.640	5047	53668	0.049	- C1	184173.8906	0.0000
5.028	5.028	8.640	5042	47858	0.043	- C1	184173.8906	0.0000
5.094	5.094	8.640	5161	13621	0.012	- C1	184173.8906	0.0000
5.166	5.166	8.640	5102	81598	0.074	- C1	184173.8906	0.0000
5.574	5.574	8.640	4084	33023	0.030	- C1	184173.8906	0.0000
5.628	5.628	8.640	5943	17885	0.016	- C1	184173.8906	0.0000
5.686	5.686	8.640	5936	43870	0.040	- C1	184173.8906	0.0000
5.846	5.846	8.640	4472	26309	0.024	- C1	184173.8906	0.0000
6.032	6.032	8.640	18937	67459	0.061	- C1	184173.8906	0.0000
6.126	6.126	8.640	4091	21276	0.019	- C1	184173.8906	0.0000
6.263	6.263	8.640	26209	71435	0.065	- C1	184173.8906	0.0000
6.494	6.494	8.640	1688	5535	0.005	- C1	184173.8906	0.0000
6.557	6.557	8.640	2503	8022	0.007	- C1	184173.8906	0.0000
6.628	6.628	8.640	2763	9593	0.009	- C1	184173.8906	0.0000
6.712	6.712	8.640	2193	13179	0.012	- C1	184173.8906	0.0000
6.952	6.952	8.640	1418	6260	0.006	- C1	184173.8906	0.0000
7.046	7.046	8.640	2689	12397	0.011	- C1	184173.8906	0.0000
7.157	7.157	8.640	3242	8454	0.008	- C1	184173.8906	0.0000
7.308	7.308	8.640	1204	7041	0.006	- C1	184173.8906	0.0000
7.374	7.374	8.640	822	1515	0.001	- C1	184173.8906	0.0000
7.446	7.446	8.640	2537	9224	0.008	- C1	184173.8906	0.0000
7.610	7.610	8.640	3392	6387	0.006	- C1	184173.8906	0.0000
7.726	7.726	8.640	1115	2114	0.002	- C1	184173.8906	0.0000
7.850	7.850	8.640	496	1532	0.001	- C1	184173.8906	0.0000
7.974	7.974	8.640	379	354	2.934E-4	- C1	184173.8906	0.0000
8.130	8.130	8.640	12447	19767	0.018	- C1	184173.8906	0.0000
8.254	8.254	8.640	1516	2831	0.003	- C1	184173.8906	0.0000
8.366	8.366	8.640	12712	19731	0.018	- C1	184173.8906	0.0000
9.383	9.383	8.640	682	858	7.761E-4	- C1	184173.8906	0.0000
9.669	9.669	8.640	603	1083	9.804E-4	- C1	184173.8906	0.0000
9.788	9.788	8.640	2527	5996	0.005	- C1	184173.8906	0.0000
9.966	9.966	8.640	1425	4657	0.004	- C1	184173.8906	0.0000
10.086	10.086	8.640	1323	3902	0.004	- C1	184173.8906	0.0000
10.197	10.197	8.640	3097	7923	0.007	- C1	184173.8906	0.0000
10.317	10.317	8.640	682	1691	0.002	- C1	184173.8906	0.0000
10.441	10.441	8.640	2122	9373	0.008	- C1	184173.8906	0.0000
10.499	10.499	8.640	4370	10522	0.010	- C1	184173.8906	0.0000
10.854	10.854	8.640	8251	11222	0.010	- C1	184173.8906	0.0000
10.934	10.934	8.640	1876	3944	0.004	- C1	184173.8906	0.0000
10.992	10.992	8.640	1363	3681	0.003	- C1	184173.8906	0.0000
11.183	11.183	8.640	13416	19011	0.017	- C1	184173.8906	0.0000
11.272	11.272	8.640	389	485	4.389E-4	- C1	184173.8906	0.0000
11.330	11.330	8.640	586	553	5.007E-4	- C1	184173.8906	0.0000
11.830	11.830	8.640	48223	94204	0.085	- C1	184173.8906	0.0000
12.222	12.222	8.640	1094	1382	0.001	- C1	184173.8906	0.0000
12.299	12.299	8.640	1494	2195	0.002	- C1	184173.8906	0.0000
12.459	12.459	8.640	147130	309431	0.279	- C1	184173.8906	0.0000
12.827	12.827	8.640	7734	9625	0.009	- C1	184173.8906	0.0000
12.890	12.890	8.640	1619	1756	0.002	- C1	184173.8906	0.0000
13.059	13.059	8.640	157656	222699	0.202	- C1	184173.8906	0.0000
13.170	13.170	8.640	182	114	1.033E-4	- C1	184173.8906	0.0000

R[illegible]ore RT	Corr RT	Exp RT	Hght uV	Area uVs	Mg/L-Mg/Kg	Peak name	RF slope	RF intercept
[illegible].277	13.277	8.640	1859	3610	0.003	- C1	184173.8906	0.0000
[illegible].423	13.423	8.640	12698	19395	0.018	- C1	184173.8906	0.0000
13.472	13.472	8.640	4637	8532	0.008	- C1	184173.8906	0.0000
13.561	13.561	8.640	9472	12927	0.012	- C1	184173.8906	0.0000
[illegible].632	13.632	8.640	96948	137665	0.125	- C1	184173.8906	0.0000
[illegible].806	13.806	8.640	2844	4637	0.004	- C1	184173.8906	0.0000
13.983	13.983	8.640	7970	13392	0.012	- C1	184173.8906	0.0000
[illegible].037	14.037	8.640	4854	8362	0.008	- C1	184173.8906	0.0000
[illegible].126	14.126	8.640	498	325	2.943E-4	- C1	184173.8906	0.0000
14.188	14.188	8.640	48115	69977	0.063	- C1	184173.8906	0.0000
[illegible].334	14.334	8.640	25737	41996	0.038	- C1	184173.8906	0.0000
[illegible].454	14.454	8.640	384	767	6.940E-4	- C1	184173.8906	0.0000
14.526	14.526	8.640	4129	752[illegible]	0.007	- C1	184173.8906	0.0000
14.574	14.574	8.640	3631	4900	0.004	- C1	184173.8906	0.0000
[illegible].632	14.632	8.640	720	616	5.571E-4	- C1	184173.8906	0.0000
[illegible].721	14.721	8.640	26948	37063	0.034	- C1	184173.8906	0.0000
16.699	16.699	16.770	6108117	9371156	8.881	SURROGATE (TRIACONTANE)	175867.9531	0.0000

To[illegible]ls			
Unknowns	10366246	40376249[illegible]	N/A
Qu[illegible]tified	7054943	12226106	11.464
Gr[illegible]d Total	17421188	417988608	11.464

ANALYSIS SUMMARY

Method..... DRO
Run sequence..... DRO
Calibration..... DR/42396
External standard calibration using area
Calibration last modified on 5-JUL-1996 at 13:29

Uncalibrated peaks use user factor (0.0000)

FORM 1 WOODWARD CLYDE SAMPLE NO.

8015M_DRO ORGANICS ANALYSIS DATA SHEET

CPD-1

Lab Name: INCHCAPE TESTING SERVICES Contract:

Lab Code: DALLAS Case No.: SAS No.: SDG No.: TPH7327

Matrix: (soil/water) SOIL Lab Sample ID: 7327-2

Sample wt/vol: 30 (g/mL) G Lab File ID: 15JUL1547715

Level: (low/med) LOW Date Received: 07/03/96

% Moisture: 19.1 decanted: (Y/N) N Date Extracted:07/11/96

Concentrated Extract Volume: 5(mL) Date Analyzed: 07/15/96

Injection Volume: 1.0(uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: MG/KG	Q
	TPH AS DIESEL	1160	