Bellevue
LUST #: 2910

EA Engineering, Science, and Technology, Inc.

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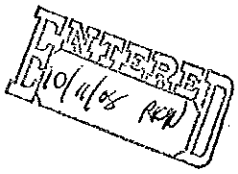
4 August 2006
61994.01 LN0019R

Mr. Roger Nye
Washington Department of Ecology
Toxics Cleanup Program
3190 – 160th Avenue Southeast
Bellevue, Washington 98008-5452



RE: Tiki Car Wash, Summary of Results for Geoprobe® Investigation
Work Order #17079, Contract Number: 30700

Dear Mr. Nye:

EA Engineering, Science, and Technology, Inc. (EA) is pleased to submit this summary of field investigation activities and results for the Geoprobe® investigation performed at the Tiki Car Wash in Bellevue, Washington on 24 and 25 April 2006.

Previous soil and groundwater sampling at the site during the 1990s identified petroleum hydrocarbon contamination. This investigation was undertaken to evaluate current levels and extent of the contamination, to identify sources, and to understand what further remedial actions could be necessary at the site.

1.0 GEOPROBE® INVESTIGATION

Beginning 24 April 2006, 12 soil borings (GP 1 through GP 12) were advanced and sampled on and surrounding the Tiki Car Wash property. Drilling activities were performed using a Geoprobe® rig operated by Cascade Drilling, Inc., of Woodinville, Washington, under the supervision of EA.

Soil and groundwater samples were collected for laboratory analysis of gasoline-range organics (GRO); diesel-range organics (DRO); and benzene, toluene, ethylbenzene, and xylenes (BTEX) in accordance with the Sampling and Analysis Plan (SAP), Revision 1, dated 8 March 2006. The SAP called for collection of a soil sample just above groundwater table, and for collection of a groundwater sample just below the water table at each location. Sampling locations are indicated on Figure 1, and are described as follows:

GP1

- Located north of the exit to the car wash, on the north-central portion of the station property.
- Depth of Boring: 16 ft bgs.
- Soil sample collected 6-7 feet (ft) below ground surface (bgs).
- Groundwater sample collected 16 ft bgs. Groundwater sample analyzed by method EPA 8260B for volatile organic compounds (VOCs) in addition to DRO and GRO.
- Observations:
  - Evidence of petroleum contamination. Moderate to strong hydrocarbon odor and photo-ionization detector (PID) readings up to 2,000 ppm at 6 to 7 ft bgs. Elevated PID readings from approximately 5 to 8 ft bgs.

GP2

- Located in the north entrance to the gas station, slightly west of center.
- Depth of Boring: 11 ft bgs (refusal).
- Soil sample collected 8 ft bgs.
- No groundwater sample collected, there was no recharge in the bore hole.
- Observations:
  - No evidence of petroleum contamination.
  - Dense and dry soil.

GP3

- Located west of the pump island.
- Depth of Boring: 12 ft bgs (refusal).
- Soil sample collected 7 ft bgs.
- Groundwater sample collected 12 ft bgs.
- Observations:
  - Evidence of petroleum contamination. Moderate to strong hydrocarbon odor. PID readings exceeding 2,000 ppm from approximately 5 to 8 ft bgs. PID readings greater than 150 ppm were measured from 3 to 11 ft bgs.
  - Very dense soil.

GP4

- Located north of the pump island.
- Depth of Boring: 13 ft bgs. (refusal)
- Soil sample collected 7 ft bgs.
- Groundwater sample collected 13 ft bgs.
- Observations:
  - Evidence of petroleum contamination. Moderate to strong hydrocarbon odor. PID readings up to 2,000 ppm from 4 and 7 ft bgs (no recovery 4 – 6 ft). Elevated PID readings from approximately 3 to 11 ft bgs.
  - Very dense soil. Could only obtain 1 full liter groundwater sample for DRO analysis due to slow recharge.

GP5

- Located south of the pump islands and the fuel vault, near the car wash entrance drive.
- Depth of Boring: 12 ft bgs. (refusal)
- Soil sample collected 7 ft bgs.
- Groundwater sample collected 12 ft bgs.
- Observations:
  - Evidence of petroleum contamination. Moderate to strong hydrocarbon odor. PID readings greater than 2,000 ppm from 5 to 7 ft bgs. Elevated PID readings from approximately 3 to 10 ft bgs.
  - Very dense soil.

GP6

- Located within the planter area at the southeast edge of the Nissan Dealer (Southwest of Tiki Car Wash).
- Depth of Boring: 7 ft bgs (refusal).
- Soil sample collected 5 ft bgs.

- Groundwater sample collected 7 ft bgs.
- Observations:
    - Evidence of petroleum contamination. Moderate to strong hydrocarbon odor. PID readings greater than 500 ppm from 4 to 7 ft bgs.

GP7

- Located in the Lamps Plus parking lot (Southeast of the Tiki Car Wash).
- Depth of Boring: 15 ft bgs (refusal).
- Soil sample collected 7 ft bgs.
- Groundwater sample collected 15 ft bgs.
- Observations:
    - No evidence of petroleum contamination.

GP8

- Located in the road between the Nissan Property and Larry's Market parking lot.
- Depth of Boring: 14 ft bgs (refusal).
- Soil sample collected 9-10 ft bgs. (no recovery 4 – 8 ft)
- Groundwater sample collected 14 ft bgs.
- Observations:
    - PID readings ranged between 40 and 110 ppm from 8 to 14 ft bgs.

GP9

- Located in the planter area between the Nissan Dealer and Tiki Car Wash, southwest of the Tiki Car Wash pump islands.
- Depth of Boring: 8 ft bgs (refusal).
- Soil samples collected at 4 and 8 ft bgs.
- Groundwater sample collected 8 ft bgs.
- Observations:
    - Evidence of petroleum contamination. Strong hydrocarbon odor. PID readings greater than 2,000 ppm from 2.5 to 6 ft bgs. Elevated PID readings from approximately 1 to 8 ft bgs.
    - Sheen observed on water sample.

GP10

- Located in Larry's Market parking lot, south of the Nissan Dealer.
- Depth of Boring: 10 ft bgs (refusal).
- Soil sample collected 7 ft bgs.
- Groundwater sample collected 10 ft bgs.
- Observations:
    - No hydrocarbon odor. PID readings up to 5 ppm from 6.5 to 9 ft bgs.

GP11

- Located in Larry's Market parking lot, south of the Tiki Car Wash.
- Depth of Boring: 8 ft bgs (refusal).
- Soil sample collected 3 ft bgs.
- Groundwater sample not collected; there was no recharge in the borehole.
- Observations:
    - Attempted boring twice. Initial boring halted at 6 ft bgs due to rock in shoe.

- PID readings greater than 1000 ppm in two separate layers, at approximately 3 ft bgs and from 5 to 7 ft bgs.

GP12

- Located in the road between the Nissan Dealer and Larry's Market parking lot.
- Depth of Boring: 12 ft bgs.
- Soil sample collected 8 ft bgs.
- Groundwater sample collected 12 ft bgs.
- Observations:
  - No evidence of petroleum contamination.

2.0 INVESTIGATION RESULTS

Analytical results for the soil and groundwater samples are summarized in Tables 1 and 2, respectively. Following is a general discussion of the findings.

Soil

All soil samples were collected and analyzed for GRO, BTEX, DRO and LRO.

GRO and BTEX

- The soil samples collected from locations GP-1, GP-3, GP-4, GP-5, GP-6 and the shallow sample (4 ft bgs) from GP-9 exceeded MTCA Method A limits for GRO and some or all of the BTEX compounds.

- The soil sample collected from location GP-8 exceeded MTCA Method A cleanup level only for benzene. Concentration of GRO, toluene, ethylbenzene and total xylenes were detected at concentrations close to the reporting limit.

- At locations GP-2, GP-7, and GP-12 concentrations of GRO and BTEX were below the method reporting limits, however at GP-7, the method reporting limit for benzene exceeded the MTCA Method A cleanup level.

DRO and LRO

- DRO was detected in soil samples collected from locations GP-1, GP-2, GP-3, GP-4, GP-5, GP-6 and the shallow soil sample collection from location GP-9. The analytical results for DRO were all qualified by the laboratory, indicating that the DRO results were primarily due to overlap from either a gasoline range product or heavy oil range product (GP-2). None of the DRO results exceeded the MTCA method A cleanup level of 2,000 mg/kg.

- LRO was detected in soil samples from location GP-2 and GP-12. None of the detected concentrations exceeded the MTCA Method A cleanup level of 2,000 mg/kg.

A graphical depiction of GRO concentrations in soil is presented in Figure 2.

Groundwater

Groundwater samples were collected and analyzed for GRO, BTEX, DRO and LRO. The sample collected from location GP-1 was also analyzed for VOCs by EPA Method 8260 B. VOC results (detections only) are summarized in Table 3.

GRO and BTEX

- GRO and some or all of the BTEX compounds were detected in groundwater at concentrations exceeding the MTCA Method A cleanup limits in all sample locations, with the exception of locations GP-7 (on the Lamps Plus Property) and GP-12. GP-12 is the sampling location furthest from the site in the southwesterly direction, in the access road between the Larry's Market parking lot and the Nissan Dealer.

DRO and LRO

- DRO was detected at concentrations exceeding the MTCA Method A cleanup limit of 500 µg/L in all of the groundwater samples except GP-10 and GP-12. Although DRO was not detected in GP-12, the laboratory detection limit was 1,560, more than 3 times greater than the MTCA Method A cleanup limits due to limited sample volume.

- LRO was detected in groundwater samples at concentrations exceeding the MTCA Method A cleanup limit of 500 µg/l in samples collected from locations GP-1, GP-5, GP-7 and GP-9. In GP-4 and GP-12, the laboratory detection limit exceeded the MTCA Method A cleanup limits due to limited sample volume.

- Volatile organics were detected in the groundwater sample collected from GP-1, however the detected constituents are consistent with components of gasoline mixtures, and not other solvents.

Deviations from Sampling Plan

Groundwater samples were not collected from two of the borings (GP-2 and GP-11) due to refusal at depths above the water table.

Originally, the SAP called for collecting a second water sample from three of the boring locations, however it was not possible to advance to geoprobe deep enough to collect a second sample.

Data Quality

Duplicate samples were collected with soil samples at locations GP-7 and GP-12, and with the groundwater sample collected from location GP-7. The relative percent difference for the measured concentrations met the data quality objectives specified in the SAP for the analytes detected at concentrations over the method reporting limit.

The trip blank accompanying the samples was analyzed for GRO and BTEX, and the analytical results were below laboratory detection limits for all constituents.

3.0 DISCUSSION AND CONCLUSIONS

EA's limited Geoprobe investigation performed in April 2006 indicated that widespread petroleum hydrocarbon contamination at concentrations exceeding the MTCA Method A cleanup levels in soil and groundwater persist at the site. Further remedial actions are needed at this site.

EA will discuss these results and the results of the May 2006 quarterly groundwater sampling event with Ecology before proceeding with well installation and/or recommendations for site remediation.

Please feel free to contact me at (425) 451-7400 if you have any questions about the enclosed.

Sincerely,

EA ENGINEERING, SCIENCE,
AND TECHNOLOGY, INC.

Jil Frain, P.E.
Project Manager
jfrain@eaest.com

Attachments:

Figure 1 – Site Map with Geoprobe Locations
Figure 2 – Soil Analytical Results for GRO, Tiki Car Wash
Figure 3 – Groundwater Analytical Results for GRO and DRO, Tiki Car Wash
Table 1 – Summary of Soil Analytical Data
Table 2 – Summary of Groundwater Analytical Data
Table 3 – Summary of Detected Volatile Organic Compounds
Attachment A – Soil Boring Logs
Attachment B – Laboratory Reports

FIGURES

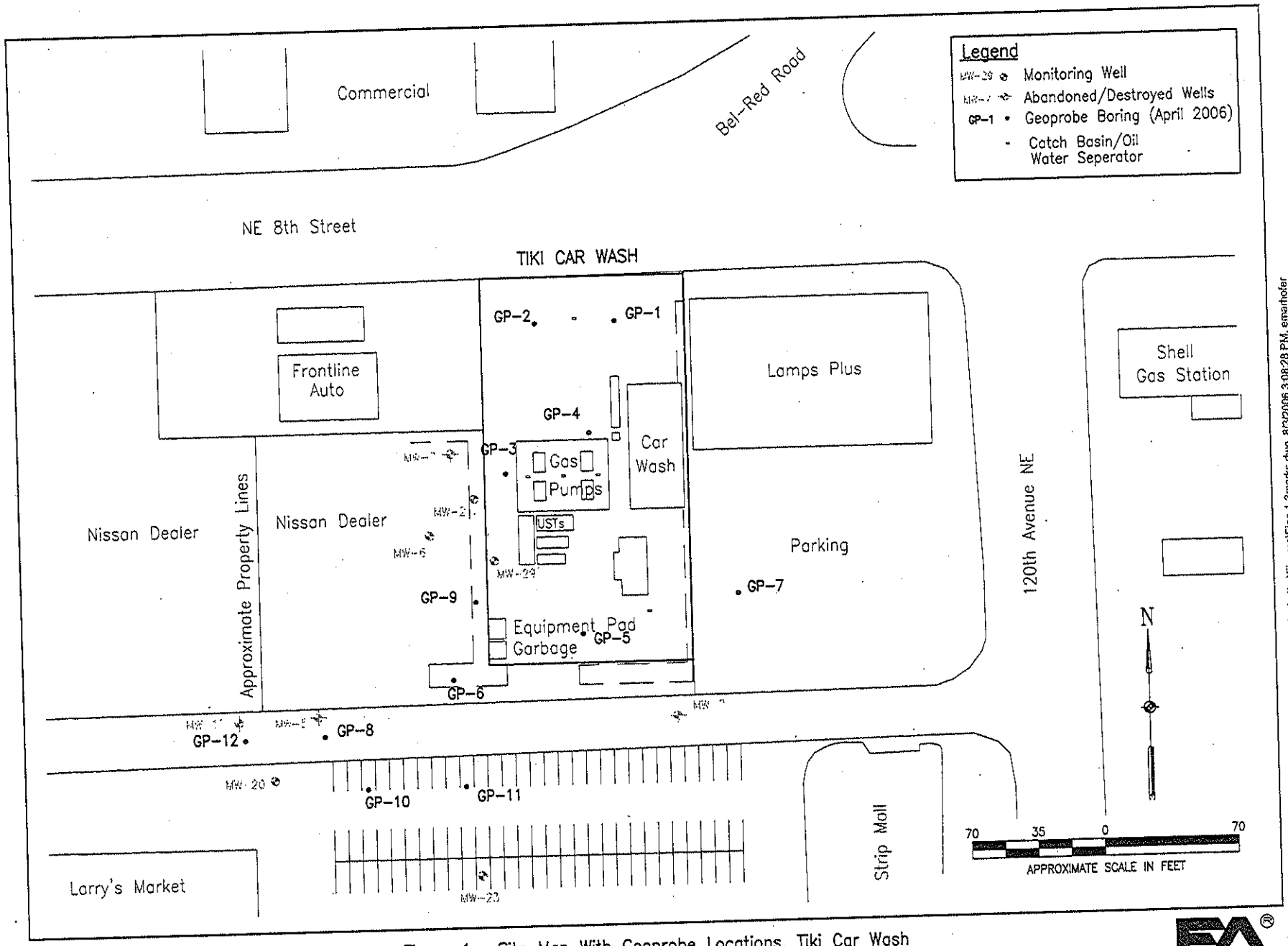


Figure 1. Site Map With Geoprobe Locations, Tiki Car Wash

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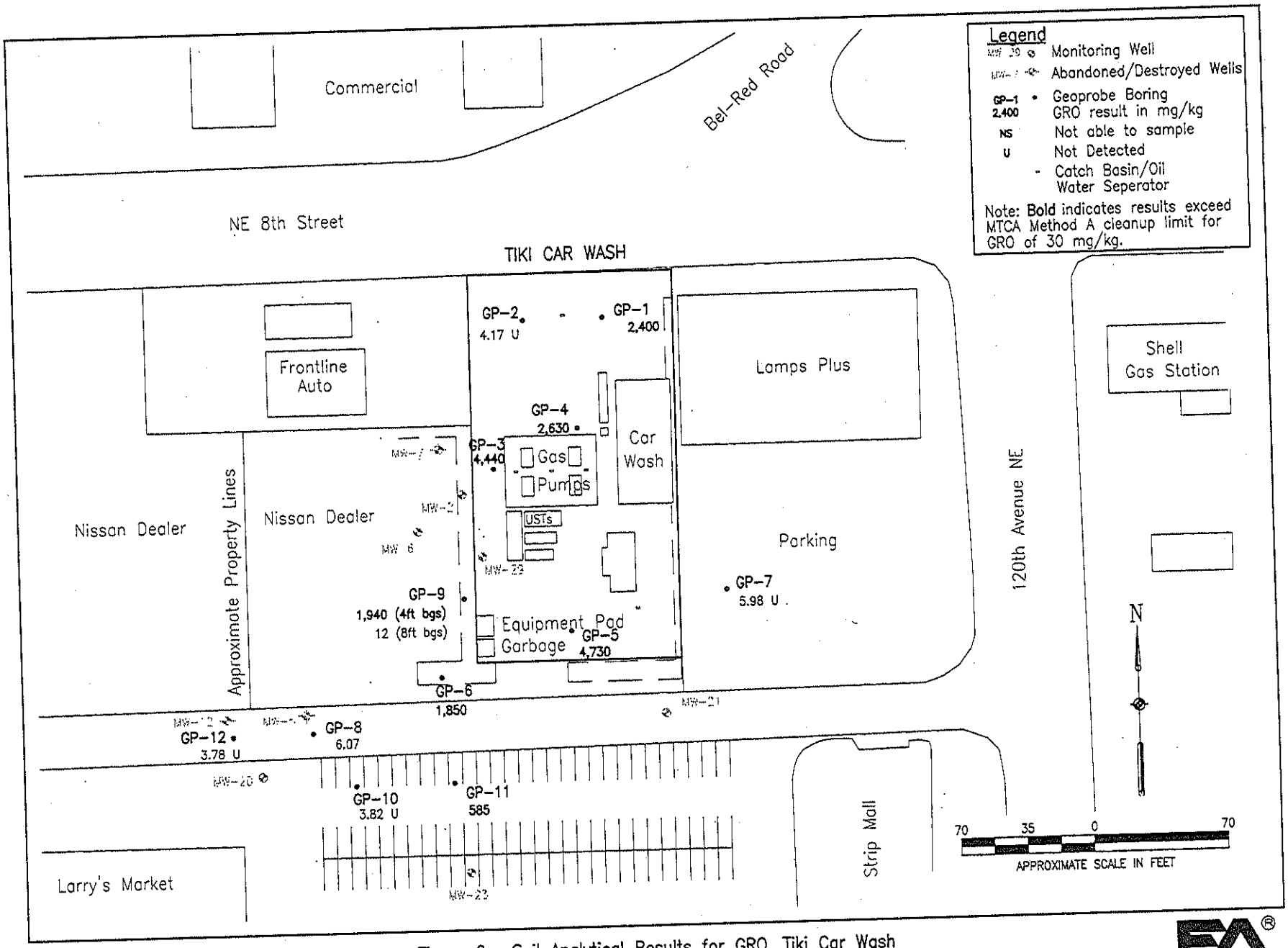

Figure 2. Soil Analytical Results for GRO, Tiki Car Wash

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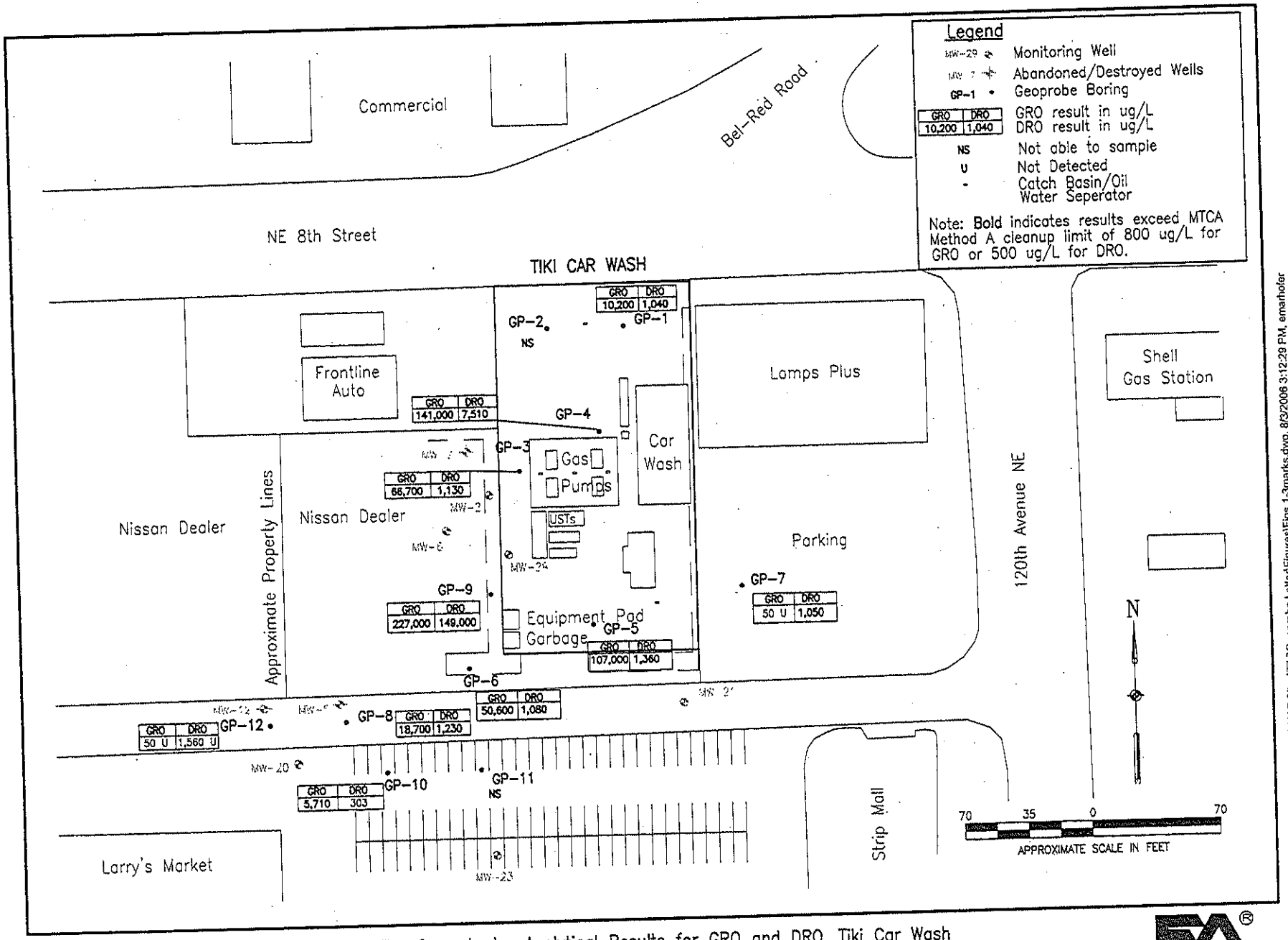

Figure 3. Groundwater Analytical Results for GRO and DRO, Tiki Car Wash

TABLES

TABLE 1. SUMMARY OF SOIL ANALYTICAL DATA, TIKI CAR WASH

Sample Number	Date Sampled	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (total) (mg/kg)	GRO (mg/kg)	DRO (mg/kg)	LRO (mg/kg)
TK-GP1-SS-7	4/24/2006	1.00 I-06	3.19	19.6	98.4	2400	28.8 D-08	33.3 U
TK-GP2-SS-8	4/24/2006	0.0250 U	0.0417 U	0.0417 U	0.0835 U	4.17 U	67.0 D-09	626
TK-GP3-SS-7	4/24/2006	6.64	0.849 U	58.2	231	4440	69.0 D-08	28.5 U
TK-GP4-SS-7	4/24/2006	25.5	112	30.0	168	2630	151 D-08	28.7 U
TK-GP5-SS-4	4/24/2006	50.3	167	55.7	327	4730	36.1 D-08	30.1 U
TK-GP6-SS-5	4/24/2006	3.68 I-06	33.4	19.6	104	1850	97.9 D-08	27.6 U
TK-GP7-SS-7	4/25/2006	0.0359 U	0.0598 U	0.0598 U	0.12 U	5.98 U	14.0 U	35.1 U
TK-GP7-SS-7D	4/25/2006	0.0339 U	0.0565 U	0.0565 U	0.113 U	5.65 U	14.5 U	36.3 U
TK-GP8-SS-10	4/25/2006	0.504	0.0390 U	0.306	0.428	6.07	11.2 U	28.1 U
TK-GP9-SS-4	4/25/2006	17.4 I-06	68.4	27.2	155	1940	617 D-08	142 U
TK-GP9-SS-8	4/25/2006	1.04	0.664	0.202	1.23	12	11 U	27.4 U
TK-GP10-SS-7	4/25/2006	0.238	0.0382 U	0.0783	0.100	3.82 U	11.2 U	27.9 U
TK-GP11-SS-3	4/25/2006	1.02 I-06	1.05	2.49	4.65	585	11.2 U	28.0 U
TK-GP12-SS-8	4/25/2006	0.0227 U	0.0378 U	0.0378 U	0.0755 U	3.78 U	11.1 U	52.7
TK-GP12-SS-8D*	4/25/2006	0.0227 U	0.0378 U	0.0378 U	0.0756 U	3.78 U	11.1 U	83.3
MTCA Method A Cleanup Criteria		0.03	7	6	9	30 /100	2,000	2,000

NOTES:

Shaded cells indicate the results exceed the cleanup criteria.

* = Duplicate sample.

DRO = Diesel range organics.

LRO = Lube oil range organics.

GRO = Gasoline range organics.

mg/kg = milligrams per kilogram (dry weight).

D-08 = Results in the diesel organics range are primarily due to overlap from a gasoline range product.

D-09 = Results in the diesel organics range are primarily due to overlap from a heavy oil range product.

I-06 = The analyte concentration may be artificially elevated due to coeluting compounds or components.

U = Not detected at or above the specified reporting limit.

The MTCA Method A Cleanup criterion for GRO is 30 mg/kg instead of 100 mg/kg when benzene is present.

TABLE 2. SUMMARY OF GROUNDWATER ANALYTICAL DATA, TIKI CAR WASH

Sample ID	Date Sampled	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Xylenes (total) (ug/L)	GRO (ug/L)	DRO (ug/L)	LRO (ug/L)
Geoprobe Borings								
TK-GP1-GW-14	4/24/2006	156	39.9	529	1,540	10,200	1,040	562
TK-GP3-GW-10	4/24/2006	2,310	3,260	2,440	11,100	66,700	1,150	472 U
TK-GP4-GW-13	4/24/2006	13,200	20,900	2,340	12,700	141,000	7,510	2,500 U
TK-GP5-GW-12	4/24/2006	13,500	10,800	2,160	11,100	107,000	1,360	618
TK-GP6-GW-7	4/24/2006	739	4,210	1,160	5,660	50,600	1,080 D-08	495 U
TK-GP7-GW-15	4/25/2006	0.500 U	0.500 U	0.500 U	1.00 U	50.0 U	1,050 D-08	1,140
TK-GP7-GW-15D*	4/25/2006	0.500 U	0.500 U	0.500 U	1.00 U	50.0 U	909 D-09	1,120
TK-GP8-GW-14	4/25/2006	111	2,880	486	734	18,700	1,230 D-08	485 U
TK-GP9-GW-8	4/25/2006	25,700	36,400	3,440 -	19,700	227,000	149,000	47,200
TK-GP10-GW-10	4/25/2006	1,110	27.1	186	276	5,710	303 D-08	472 U
TK-GP12-GW-12	4/25/2006	0.500 U	0.525	0.500 U	1.00 U	50.0 U	1,560 U	3,120 U
MTCA Method A Cleanup Criteria		5	1000	700	1000	1000 /800	500	500

NOTES:

Shaded cells indicate the results exceed the cleanup criteria.

* = Duplicate sample.

D-08 = Results in the diesel organics range are primarily due to overlap from a gasoline range product.

D-09 = Results in the diesel organics range are primarily due to overlap from a heavy oil range product.

U = Not detected at or above the specified reporting limit.

The MTCA Method A Cleanup criterion for GRO is 800 mg/kg instead of 1000 mg/kg when benzene is present.

TABLE 3. SUMMARY OF DETECTED VOLATILE ORGANIC COMPOUNDS FOR GROUNDWATER SAMPLE GP-1

TIKI CAR WASH

Analyte	Results (ug/L)	
Acetone	23.0	
Benzene	164	
2-Butanone	6.42	
n-Butylbenzene	7.75	
Ethylbenzene	565	E-01
n-Hexane	36.5	
Isopropylbenzene	36.9	
p-Isopropyltoluene	4.26	
Napthalene	123	
n-Polypropylbenzene	87.4	
Toluene	41.3	
1,2,4-Trimethylbenzene	623	E-01
1,3,5-Trimethylbenzene	116	
o-Xylene	243	E-01
m,p-Xylene	1170	E-01

E-01 = Estimated value. The reported value exceeds the capacity of the detector and therefore is unreliable.

ATTACHMENT A

SOIL BORING LOGS

EA Engineering, Science, And Technology, Inc.

Client	Project Number	Location
WA DOE	6199401	Tiki Carwash

Drilling/Sampling Methods: Geoprobe – Cascade Drilling. Rig 11 Jaymes

Water Level			
Time			
Date			
Reference			

DRILLING

Start	Finish
Time 0830	Time
Date 4/24/06	Date 4/24/06

LOG OF SOIL BORING: GP-1
North East section of Tiki Property.

Elevation From Top of Casing (TOC):

Surface Conditions: Asphalt.

Description by: MJB

Well Completion: No

INCHES Driven	INCHES Recov.	Blows/6"	PID OVA Reading	WELL DETAIL	DEPTH (Ft)	USCS SYMBOL	
			2		0		gravel, asphalt chunks.
					1		Medium sand, brk brown w/ gravel
					2	SP	
			3.7		3		
4'	18"		32		4		moist. drk brown silt w/ fine/med sand.
			4		5	SM	moist gray sand w/ trace of silt.
			800		6		Dense & probably
			>1000		7		wet.
4'	4'		500		8	SM/SP	silty sand w/ gravel, dk brown
			3.		9		wet.
			30		10		same as above, gray.
			0		11		
4'	4'		0		12	SP	grayish, med sand w/ gravel.
			26		13		
			0		14		wet.
			0		15		
4'	4'		0		16		End of boring
					17		
					18		
					19		
					20		

GW sample

EA Engineering, Science, And Technology, Inc.

Client	Project Number	Location
Ecology	61940.01	Tiki Carwash

Drilling/Sampling Methods: Geoprobe; Cascade Drilling. Rig 11

LOG OF SOIL BORING: GP-2

Northwest section of Tiki Property

Elevation From Top of Casing (TOC):

Water Level			
Time			
Date			
Reference			

DRILLING

Start	Finish
Time 1020	Time
Date 4/24/0	Date 1100

Surface Conditions: Asphalt

Description by: MGB

Well Completion: No

INCHES Driven	INCHES Recov.	Blows/6"	OVA Reading	WELL DETAIL	DEPTH (Ft)	USCS SYMBOL
			0		0	
			0		1	
			/		2	ML/SP
4'	3'		0		3	
			0		4	
			0		5	
			0		6	
4'	3'		0		7	
			0		8	SP
			0		9	
3.5	3.5		0		10	
1.5	2'		0		11	
					12	
					13	
					14	
					15	
					16	
					17	
					18	
					19	
					20	

Asphalt, gravel.

Dk brown, sandy silt w/ gravels to organics; Dry

med brown/gray, fine/med sand w/ trace silt, Dry

Dense, hard to advance probe.

grayish.

Fine/med sand w/ gravel & trace of silt.

Very hard probing.

End of boring 11' Refusal

Same as above. Very dense. Dry.

No Water sample collected.

EA Engineering, Science, And Technology, Inc.

Client	Project Number	Location
Ecology	61994.01	Tlci Carwash.

Drilling/Sampling Methods: Geoprobe — Cascade Drilling Rig 11

				DRILLING Start	DRILLING Finish
Water Level					
Time				1105	1200
Date				4/24/06	4/24/06
Reference					

LOG OF SOIL BORING: GP3
west of Pump Islands.
Elevation From
Top of Casing (TOC):

Surface Conditions: Asphalt.
Description by: MBR
Well Completion: NO

INCHES Driven	INCHES Recov.	Blows/6"	OVA Reading	WELL DETAIL	DEPTH (Ft)	USCS SYMBOL	
			3		0		Asphalt.
			7		1		med/drk. brown, silty sand w/ gravel.
			9		2		
4'	4'		500		3	SM/GM	grayish silty sand w/ gravel, moist.
			300		4		
			>2000		5		moist
			>2000		6		Dense, silty sand w/ gravel, strong HC odor.
4'	4'		>2000		7	SM/GM	
			150		8		Same as above: wet, Had brown droplets of water/fluid on core sleeve.
			150		9		
			150		10		
4'	4'		30		11		
					12		End of boring. Very dense, Can't probe any deeper. Refusal.
					13		
					14		
					15		
					16		
					17		
					18		
					19		
					20		

EA Engineering, Science, And Technology, Inc.

Client	Project Number	Location
Ecology	61994.01	Tiki Carwash

Drilling/Sampling Methods: Geoprobe - Cascade Drilling - Rig 11

				DRILLING Start	DRILLING Finish
Water Level					
Time				Time 1250	Time 1415
Date				Date 4/24/06	Date 4/24/06
Reference					

LOG OF SOIL BORING: GP4

N. of eastern pump islands.

Elevation From Top of Casing (TOC):

Surface Conditions: Asphalt

Description by: MB

Well Completion: No

INCHES Driven	INCHES Recvd	Blows/6"	OVA Reading	WELL DETAIL	DEPTH (Ft)	USCS SYMBOL	
			150		0		Asphalt. gravels.
			100		1		dark brown, sandy silt w/gravel, cobble & organics
			500		2	SM/GM	
4'	3'		>2000		3		
					4		No recovery, rock in shoe.
				Soil	5		
			>2000		6		Silty sand w/gravel, dry,
			1500	Soil	7		grayish,
			150		8		Dark brown silt w/sand, + organic, dry. strong HC odor
4	4'		350	>2000*	9	SM/GM	
			400+		10		grayish sand w/ gravel, dry.
			50		11		
3'	4'		30	Water sample	12		Very dense.
					13		End of Boring. Refusal.
					14		
					15		
					16		
					17		
					18		
					19		
					20		

EA Engineering, Science, And Technology, Inc.

Client	Project Number	Location
Ecology	619944.01	Tiki Carwash

Drilling/Sampling Methods: Geoprobe — Cascade Drilling Rig 11

LOG OF SOIL BORING: GP5

Elevation From Top of Casing (TOC):

Water Level			
Time			
Date			
Reference			

DRILLING

Start	Finish
Time 1355	Time 1620
Date 4/24/00	Date 4/24/00

Surface Conditions: Asphalt

Description by: MBO

Well Completion: No

INCHES Driven	INCHES Recov.	Blows/6"	OVA Reading	WELL DETAIL	DEPTH (Ft)	USCS SYMBOL	
			0		0		Asphalt, 1" gravel.
			16		1	SP	Coarse sand, w/ gravel, trace of silt.
			26		2		clean sand zone, w/ large gravel. Dry
					3		
4'	3'		1300		4	SP/SC	- clayey sand, w/ silt + gravel. Dry (strong HC odor @ 4', grab sample, smells fresh of gasoline)
			1500		5		Dark brown/gray, silty, clayey sand w/ gravel.
			2000				strong AC odor, very dense.
			2000		6		moist.
					7		
4'	3.5'		60		8		wet.
			450		9	SP	cleaner sand, w/ trace of silt, + gravels. slight HC odor.
			80		10		
			26		11		Very Dense.
4'	4'		0		12		End of boring.
					13		Refusal.
					14		
					15		
					16		
					17		
					18		
					19		
					20		

EA Engineering, Science, And Technology, Inc.

Client	Project Number	Location
Ecology	6199401	Tiki Carwash

Drilling/Sampling Methods: Geoprobe – Cascade Drilling – Rig 11

LOG OF SOIL BORING: GP6

Bark planter S. of Nissan/Tiki Property

Elevation From Top of Casing (TOC):

Water Level			
Time			
Date			
Reference			

DRILLING

Start	Finish
Time 1610	Time
Date 4/24/06	Date 4/24/06

Surface Conditions: BARK planter.

Well Completion: NO

Description by: MB

INCHES Driven	INCHES Recov.	Blows/ft	PID Reading	WELL DETAIL	DEPTH (Ft)	USCS SYMBOL	Description
			0		0		Bark:
			0		1		Dk brown organic
			0		2		silty sand w/ gravel, light brown/grey. DRY
4'	3.5'		0		3		
			1400		4		slight HC odor.
			1101		5		Same as above
3'	3'		193 585		6		
					7		End of Boring; Refusal.
					8		
					9		
					10		
					11		
					12		
					13		
					14		
					15		
					16		
					17		
					18		
					19		
					20		

EA Engineering, Science, And Technology, Inc.

Client	Project Number	Location
Ecology	6194401 5000	

Drilling/Sampling Methods: Geoprobe + Cascade Drilling Rig II

LOG OF SOIL BORING: GP7 on Lamps Plus Property.

Elevation From Top of Casing (TOC):

				DRILLING Start	DRILLING Finish
Water Level					
Time				0815	0945
Date				4/25/06	4/25/06
Reference					

Surface Conditions: Asphalt.

Description by: MB

Well Completion: No

INCHES Driven	INCHES Recov.	Blows/6"	OVA Reading	WELL DETAIL	DEPTH (Ft)	USCS SYMBOL
			0		0	
			0		1	
			0		2	
4'	4'		0		3	SP/GM
			0		4	
			0		5	ML
			0		6	
			0		7	
4'	3.0'		0		8 (3rd 0835)	
			0		9	
			0		10 (▽)	SP/GM
			0		11	
4'	2.5'		0		12	
			/		13	
			0		14	
3'	3'		0		15	
					16	
					17	
					18	
					19	
					20	

Groundwater

Asphalt.
Gravel/angular.
Sandy gravel, dry, tan/gray.

- Dk brown sandy silt, dry, w/gravel, & organics - wood chunk.
- Gray silty clay, moist

Med brown. sandy silt w/gravel, less clay.. wet.

light brown, silty sand w/gravel (up to 1" diameter) moist.

soupy, silty sand w/gravels, medium/fine sand. grayish/tan. No odors.

Very Hard drilling.

End of Boring. Refusal.

EA Engineering, Science, And Technology, Inc.

Client	Project Number	Location
EG/obg.	61946.01	Tiki Carwash

Drilling/Sampling Methods: Geoprobe - Cascade Drilling. Rig 11

LOG OF SOIL BORING: GP 8
Near former MW-5

Elevation From Top of Casing (TOC):

				DRILLING Start	DRILLING Finish
Water Level					
Time				Time 0950	Time 1045.
Date				Date 4/25/06	Date 4/25/06
Reference					

Surface Conditions: Asphalt.
Description by: MB, S
Well Completion: NO

INCHES Driven	INCHES Recov.	Blows/6"	PID Reading	WELL DETAIL	DEPTH (Ft)	USCS SYMBOL	
			0		0		Asphalt + broken concrete.
			0		1		light gray, dry
			0		2	SP/SM	Med brown/tan, sand w/ gravel, trace of silt,
4'	3'		0		3		some mottling. Dry.
					4		
					5		
					6		
4	0				7		Rock stuck in shoe. No recovery.
			41		8		silty sand w/ gravel (7 3/4") Dry, tan
			50		9	SP/SM	
			76		10		grayish, silty sand w/gravel, more silt than above
4	3.75		110		11		
			50		12		same as above.
2'	3'		10/2"		13		
					14		End of Boring. Refusal.
					15		
					16		
					17		
					18		
					19		
					20		

Water sample

EA Engineering, Science, And Technology, Inc.

Client	Project Number	Location
Ecology	61994.01	Tiki Carwash

Drilling/Sampling Methods: Geoprobe - Cascade Drilling - Rig 11

LOG OF SOIL BORING: GP 9

Elevation From Top of Casing (TOC): Near NE-2 on Nasa Property

Water Level			
Time			
Date			
Reference			

DRILLING

Start	Finish
Time 1115	Time
Date 4/25/06	Date 4/25/06

Surface Conditions: Bark Planter

Description by: JB/JS

Well Completion: No

INCHES Driven	INCHES Recov.	Blows/6"	OVA Reading	WELL DETAIL	DEPTH (Ft)	USCS SYMBOL	
			35		0		Bark. gravelly sand.
			600		1		silty sand w/ gravel, grayish. moist/wet.
			72000		2		
			72000		3		strong HC odor. (weathered gas)
4'	2'		72000		4	SM/GM	
			72000		5		grayish, silty sand w/ gravel,
			72000		6		strong HC odor (gasoline)
			1800		7		
4'	35'		300		8		End of Boring. Refusal.
					9		
					10		
					11		
					12		
					13		
					14		
					15		
					16		
					17		
					18		
					19		
					20		

EA Engineering, Science, And Technology, Inc.

Client	Project Number	Location
Ecology	6(994.01	Tiki Carwash.

Drilling/Sampling Methods: Geoprobe – Cascade Drilling Rig 11.

				DRILLING Start	DRILLING Finish
Water Level					
Time				Time 1305	Time 1410
Date				Date 9/25/06	Date 9/25/06
Reference					

LOG OF SOIL BORING: GP 10

In temporary parking lot.

Elevation From Top of Casing (TOC):

Surface Conditions: Asphalt.

Description by: JMB

Well Completion: NO

INCHES Driven	INCHES Recov.	Blows/6"	PID Reading	WELL DETAIL	DEPTH (Ft)	USCS SYMBOL	
			0		0		Asphalt.
			0		1		Angular gravel.
			0		2	SM/GM	silty sand w/gravel. medbrown. dry.
			0		3		
4'	3.5'		0		4		Moisture
			0		5		grayish. silty sand w/ gravel.
			0		6		moist.
			15		7		fine sand, less silt + gravel. Moisture.
4'	3.5'		1		8	SM/GM	wet.
			25		9		grayish silty sand w/ gravel.
2'	3'		0		10		End of boring. Refusal.
					11		
					12		
					13		
					14		
					15		
					16		
					17		
					18		
					19		
					20		

Soil Sample

EA Engineering, Science, And Technology, Inc.

Client	Project Number	Location
Ecology.	61994.01	Tolt Carwash.

Drilling/Sampling Methods: Geoprobe — Cascade Drilling Rig 11

LOG OF SOIL BORING: GP 11 In Larry's Parking 2nd try.

Elevation From Top of Casing (TOC):

				DRILLING Start	DRILLING Finish
Water Level					
Time				Time 1420	Time 1500.
Date				Date 4/25/06	Date 4/25/06
Reference					

Surface Conditions: Asphalt

Description by: MSB.

Well Completion: No

INCHES Driven	INCHES Recov.	Blows/6"	OVA Reading	WELL DETAIL	DEPTH (Ft)	USCS SYMBOL	
			0/4		0		Asphalt. angular gravel. orange/brown medium sand w/ gravel. + cobbles.
			576		1		
			1600		2	SM/GM	moist. grayish silty sand w/ gravel, slight HC odor
4'			30		3		
			150		4		grayish silty sand,
			1350		5		
			1300		6		moist
4'	4'		10		7		light tan silty sand, increasing silt, w/ gravel.
					8		End of boring. Refusal.
					9		
					10		No water sample collected.
					11		
					12		
					13		
					14		
					15		
					16		
					17		
					18		
					19		
					20		

EA Engineering, Science, And Technology, Inc.

Client	Project Number	Location
Ecology	61944.01	Tiki, Cowlitz

Drilling/Sampling Methods: Geoprobe — Cascade Drilling — Rig 11.

				DRILLING Start	DRILLING Finish
Water Level					
Time				Time 15:15	Time
Date				Date 4/25/00	Date 4/25/00
Reference					

LOG OF SOIL BORING: GP12

Elevation From Top of Casing (TOC): West of GP-8, In roadway, btw Nissan & Larry's.

Surface Conditions: Asphalt.

Description by: MBL

Well Completion: No

INCHES Driven	INCHES Recov.	Blows/6"	OVA Reading	WELL DETAIL	DEPTH (Ft)	USCS SYMBOL	
			0		0		Asphalt
			0		1		gravel
			0		2		silty sand w/ gravel, med brown
4	4		0		3	SM/GM	light brown.
			1		4		light brown w/ mottling, silty sand w/ gravel. Dry.
			0		5		med brown/grayish, same as above.
			0		6		
			0		7		moist.
4	3		0	Bentonite Seal	8		med brown/gray, silty sand w/ gravel.
			0	Water Sample	9		wet.
			0		10		very Dense
			0		11		Dry, same as above.
4	3		0		12		End of boring.
					13		
					14		Close to refusal,
					15		
					16		
					17		
					18		
					19		
					20		

ATTACHMENT B

LABORATORY REPORTS

TestAmerica
ANALYTICAL TESTING CORPORATION

SEATTLE, WA 11720 NORTH CREEK PKWY N, SUITE 400
BOTHELL, WA 98011-8244
PH: (425) 420.9200 FAX: (425) 420.9210

Amended Report

June 16, 2006

Jill Frain
EA Engineering, Science and Technology
12011 NE 1st Street, Suite 100
Bellevue, WA/USA 98005

RE: Tiki Carwash

Enclosed are the results of analyses for samples received by the laboratory on 04/26/06 17:05. The following list is a summary of the Work Orders contained in this report, generated on 06/16/06 15:41.

If you have any questions concerning this report, please feel free to contact me.

Amended Report: All results reported here supercede any previously reported results.

Work Order	Project	ProjectNumber
BPD0657	Tiki Carwash	61994.01

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SEATTLE, WA 11720 NORTH CREEK PKWY N, SUITE 400
BOTHELL, WA 98011-8244
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Amended Report

EA Engineering, Science and Technology
12011 NE 1st Street, Suite 100
Bellevue, WA/USA 98005

Project Name: Tiki Carwash
Project Number: 61994.01
Project Manager: Jill Frain

Report Created: 06/16/06 15:41

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TK-GP1-SS-7	BPD0657-01	Soil	04/24/06 08:50	04/26/06 17:05
TK-GP1-GW-14	BPD0657-02	Water	04/24/06 09:10	04/26/06 17:05
TK-GP2-SS-8	BPD0657-03	Soil	04/24/06 10:48	04/26/06 17:05
TK-GP3-SS-7	BPD0657-04	Soil	04/24/06 11:25	04/26/06 17:05
TK-GP3-GW-10	BPD0657-05	Water	04/24/06 11:30	04/26/06 17:05
TK-GP4-SS-7	BPD0657-06	Soil	04/24/06 13:30	04/26/06 17:05
TK-GP4-GW-13	BPD0657-07	Water	04/24/06 13:45	04/26/06 17:05
TK-GP5-SS-4	BPD0657-08	Soil	04/24/06 14:50	04/26/06 17:05
TK-GP5-GW-12	BPD0657-09	Water	04/24/06 15:10	04/26/06 17:05
TK-GP6-SS-5	BPD0657-10	Soil	04/24/06 16:30	04/26/06 17:05
TK-GP6-GW-7	BPD0657-11	Water	04/24/06 16:50	04/26/06 17:05
TK-GP7-SS-7	BPD0657-12	Soil	04/25/06 08:35	04/26/06 17:05
TK-GP7-SS-7D	BPD0657-13	Soil	04/25/06 08:45	04/26/06 17:05
TK-GP7-GW-15	BPD0657-14	Water	04/25/06 09:00	04/26/06 17:05
TK-GP7-GW-15D	BPD0657-15	Water	04/25/06 09:10	04/26/06 17:05
TK-GP8-SS-10	BPD0657-16	Soil	04/25/06 10:10	04/26/06 17:05
TK-GP8-GW-14	BPD0657-17	Water	04/25/06 10:30	04/26/06 17:05
TK-GP-TB	BPD0657-18	Water	04/24/06 00:00	04/26/06 17:05
TK-GP9-SS-4	BPD0657-19	Soil	04/25/06 11:25	04/26/06 17:05
TK-GP9-SS-8	BPD0657-20	Soil	04/25/06 11:40	04/26/06 17:05
TK-GP9-GW-8	BPD0657-21	Water	04/25/06 12:00	04/26/06 17:05
TK-GP10-SS-7	BPD0657-22	Soil	04/25/06 13:30	04/26/06 17:05
TK-GP10-GW-10	BPD0657-23	Water	04/25/06 13:45	04/26/06 17:05
TK-GP11-SS-3	BPD0657-24	Soil	04/25/06 14:41	04/26/06 17:05
TK-GP12-SS-8	BPD0657-25	Soil	04/25/06 15:40	04/26/06 17:05
TK-GP12-SS-8D	BPD0657-26	Soil	04/25/06 15:45	04/26/06 17:05
TK-GP12-GW-12	BPD0657-27	Water	04/25/06 15:55	04/26/06 17:05

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Amended Report

Kortland Orr, PM

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BOTHELL, WA 98011-8244
PH: (425) 420.9200 FAX: (425) 420.9210

Amended Report

EA Engineering, Science and Technology	Project Name:	Tiki Carwash
12011 NE 1st Street, Suite 100	Project Number:	61994.01
Bellevue, WA/USA 98005	Project Manager:	Jill Frain
		Report Created: 06/16/06 15:41

Gasoline Hydrocarbons (Benzene to Naphthalene) and BTEX by NWTPH-G and EPA 8021B

TestAmerica - Seattle, WA

Analyte	Method	Result	MDL[A]	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BPD0657-01 (TK-GP1-SS-7)		Soil			Sampled: 04/24/06 08:50					
Gasoline Range Hydrocarbons	NWTPH-Gx/802 1B	2400	—	106	mg/kg dry	20x	6D29019	04/29/06 17:50	04/30/06 00:16	I-06
Benzene	"	1.00	—	0.635	"	"	"	"	"	
Toluene	"	3.19	—	1.06	"	"	"	"	"	
Ethylbenzene	"	19.6	—	1.06	"	"	"	"	"	
Xylenes (total)	"	98.4	—	2.12	"	"	"	"	"	
Surrogate(s): 4-BFB (FID)		*116%*			*50 - 150 %*	*1x*			"	
4-BFB (PID)		*72.2%*			*53 - 142 %*	"			"	
BPD0657-02 (TK-GP1-GW-14)		Water			Sampled: 04/24/06 09:10					
Gasoline Range Hydrocarbons	NWTPH-Gx/802 1B	10200	—	250	ug/l	5x	6D29016	04/29/06 17:24	04/29/06 21:26	
Benzene	"	156	—	2.50	"	"	"	"	"	
Toluene	"	39.9	—	2.50	"	"	"	"	"	
Surrogate(s): 4-BFB (FID)		*110%*			*58 - 144 %*	*1x*			"	
4-BFB (PID)		*104%*			*68 - 140 %*	"			"	
BPD0657-02RE1 (TK-GP1-GW-14)		Water			Sampled: 04/24/06 09:10					
Ethylbenzene	NWTPH-Gx/802 1B	529	—	5.00	ug/l	10x	6D29016	04/29/06 17:24	04/30/06 11:15	
Xylenes (total)	"	1540	—	10.0	"	"	"	"	"	
Surrogate(s): 4-BFB (PID)		*104%*			*68 - 140 %*	*1x*			"	
BPD0657-03 (TK-GP2-SS-8)		Soil			Sampled: 04/24/06 10:48					
Gasoline Range Hydrocarbons	NWTPH-Gx/802 1B	ND	—	4.17	mg/kg dry	1x	6D29019	04/29/06 17:50	04/29/06 23:45	
Benzene	"	ND	—	0.0250	"	"	"	"	"	
Toluene	"	ND	—	0.0417	"	"	"	"	"	
Ethylbenzene	"	ND	—	0.0417	"	"	"	"	"	
Xylenes (total)	"	ND	—	0.0835	"	"	"	"	"	
Surrogate(s): 4-BFB (FID)		*98.4%*			*50 - 150 %*	"			"	
4-BFB (PID)		*97.2%*			*53 - 142 %*	"			"	
BPD0657-04 (TK-GP3-SS-7)		Soil			Sampled: 04/24/06 11:25					
Benzene	NWTPH-Gx/802 1B	6.64	—	0.509	mg/kg dry	20x	6D30006	04/30/06 18:41	05/01/06 03:08	
Toluene	"	ND	—	0.849	"	"	"	"	"	
Ethylbenzene	"	58.2	—	0.849	"	"	"	"	"	
Surrogate(s): 4-BFB (PID)		*87.5%*			*53 - 142 %*	*1x*			"	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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Amended Report

Kortland Orr, PM

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SEATTLE, WA 11720 NORTH CREEK PKWY N, SUITE 400
BOTHELL, WA 98011-8244
PH: (425) 420.9200 FAX: (425) 420.9210

Amended Report

EA Engineering, Science and Technology
12011 NE 1st Street, Suite 100
Bellevue, WA/USA 98005

Project Name: Tiki Carwash
Project Number: 61994.01
Project Manager: Jill Frain

Report Created: 06/16/06 15:41

Gasoline Hydrocarbons (Benzene to Naphthalene) and BTEX by NWTPH-G and EPA 8021B

TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BPD0657-04RE1 (TK-GP3-SS-7)		Soil				Sampled: 04/24/06 11:25				
Gasoline Range Hydrocarbons	NWTPH-Gx/802 1B	4440	—	212	mg/kg dry	50x	6E03037	05/03/06 10:49	05/03/06 14:16	
Xylenes (total)	"	231	—	4.24	"	"	"	"	"	
Surrogate(s): 4-BFB (FID)		*122%*			*50 - 150 %*	*1x*			"	
4-BFB (PID)		*111%*			*53 - 142 %*	"			"	
BPD0657-05 (TK-GP3-GW-10)		Water				Sampled: 04/24/06 11:30				
Gasoline Range Hydrocarbons	NWTPH-Gx/802 1B	66700	—	1000	ug/l	20x	6D29016	04/29/06 17:24	04/29/06 22:28	
Surrogate(s): 4-BFB (FID)		*111%*			*58 - 144 %*	*1x*			"	
BPD0657-05RE1 (TK-GP3-GW-10)		Water				Sampled: 04/24/06 11:30				
Benzene	NWTPH-Gx/802 1B	2310	—	50.0	ug/l	100x	6D29016	04/29/06 17:24	04/30/06 11:46	
Toluene	"	3260	—	50.0	"	"	"	"	"	
Ethylbenzene	"	2440	—	50.0	"	"	"	"	"	
Xylenes (total)	"	11100	—	100	"	"	"	"	"	
Surrogate(s): 4-BFB (PID)		*100%*			*68 - 140 %*	*1x*			"	
BPD0657-06 (TK-GP4-SS-7)		Soil				Sampled: 04/24/06 13:30				
Gasoline Range Hydrocarbons	NWTPH-Gx/802 1B	2360	—	409	mg/kg dry	100x	6D29019	04/29/06 17:50	04/30/06 13:29	
Benzene	"	25.5	—	2.45	"	"	"	"	"	
Toluene	"	112	—	4.09	"	"	"	"	"	
Ethylbenzene	"	30.0	—	4.09	"	"	"	"	"	
Xylenes (total)	"	168	—	8.18	"	"	"	"	"	
Surrogate(s): 4-BFB (FID)		*93.9%*			*50 - 150 %*	*1x*			"	
4-BFB (PID)		*84.5%*			*53 - 142 %*	"			"	
BPD0657-07 (TK-GP4-GW-13)		Water				Sampled: 04/24/06 13:45				
Gasoline Range Hydrocarbons	NWTPH-Gx/802 1B	141000	—	25000	ug/l	500x	6E02043	05/02/06 13:45	05/03/06 08:28	
Benzene	"	13200	—	250	"	"	"	"	"	
Toluene	"	20900	—	250	"	"	"	"	"	
Ethylbenzene	"	2340	—	250	"	"	"	"	"	
Xylenes (total)	"	12700	—	500	"	"	"	"	"	
Surrogate(s): 4-BFB (FID)		*90.0%*			*58 - 144 %*	*1x*			"	
4-BFB (PID)		*99.7%*			*68 - 140 %*	"			"	

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TestAmerica - Seattle, WA

Amended Report

Kortland Orr, PM

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ANALYTICAL TESTING CORPORATION

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Amended Report

EA Engineering, Science and Technology
12011 NE 1st Street, Suite 100
Bellevue, WA/USA 98005

Project Name: Tiki Carwash
Project Number: 61994.01
Project Manager: Jill Frain

Report Created: 06/16/06 15:41

Gasoline Hydrocarbons (Benzene to Naphthalene) and BTEX by NWTPH-G and EPA 8021B

TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BPD0657-08 (TK-GP5-SS-4)		Soil			Sampled: 04/24/06 14:50					
Gasoline Range Hydrocarbons	NWTPH-Gx/802 1B	4730	—	895	mg/kg dry	200x	6D29019	04/29/06 17:50	04/30/06 14:00	
Benzene	"	50.3	—	5.37	"	"	"	"	"	
Toluene	"	167	—	8.95	"	"	"	"	"	
Ethylbenzene	"	55.7	—	8.95	"	"	"	"	"	
Xylenes (total)	"	327	—	17.9	"	"	"	"	"	
Surrogate(s): 4-BFB (FID)		*82.5%*			*50 - 150 %*	*1x*			"	
4-BFB (PID)		*80.2%*			*53 - 142 %*	"			"	
BPD0657-09 (TK-GP5-GW-12)		Water			Sampled: 04/24/06 15:10					
Gasoline Range Hydrocarbons	NWTPH-Gx/802 1B	107000	—	10000	ug/l	200x	6E02043	05/02/06 13:45	05/03/06 08:59	
Benzene	"	13500	—	100	"	"	"	"	"	
Toluene	"	10800	—	100	"	"	"	"	"	
Ethylbenzene	"	2160	—	100	"	"	"	"	"	
Xylenes (total)	"	11100	—	200	"	"	"	"	"	
Surrogate(s): 4-BFB (FID)		*90.7%*			*58 - 144 %*	*1x*			"	
4-BFB (PID)		*100%*			*68 - 140 %*	"			"	
BPD0657-10 (TK-GP6-SS-5)		Soil			Sampled: 04/24/06 16:30					
Gasoline Range Hydrocarbons	NWTPH-Gx/802 1B	1850	—	83.6	mg/kg dry	20x	6D29019	04/29/06 17:50	04/30/06 11:56	I-06
Benzene	"	3.68	—	0.502	"	"	"	"	"	
Toluene	"	33.4	—	0.836	"	"	"	"	"	
Ethylbenzene	"	19.6	—	0.836	"	"	"	"	"	
Xylenes (total)	"	104	—	1.67	"	"	"	"	"	
Surrogate(s): 4-BFB (FID)		*101%*			*50 - 150 %*	*1x*			"	
4-BFB (PID)		*86.5%*			*53 - 142 %*	"			"	
BPD0657-11 (TK-GP6-GW-7)		Water			Sampled: 04/24/06 16:50					
Gasoline Range Hydrocarbons	NWTPH-Gx/802 1B	50600	—	2500	ug/l	50x	6D29016	04/29/06 17:24	04/29/06 22:58	
Benzene	"	739	—	25.0	"	"	"	"	"	
Toluene	"	4210	—	25.0	"	"	"	"	"	
Ethylbenzene	"	1160	—	25.0	"	"	"	"	"	
Xylenes (total)	"	5660	—	50.0	"	"	"	"	"	
Surrogate(s): 4-BFB (FID)		*97.3%*			*58 - 144 %*	*1x*			"	
4-BFB (PID)		*101%*			*68 - 140 %*	"			"	

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Amended Report

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SEATTLE, WA 11720 NORTH CREEK PKWY N, SUITE 400
BOTHELL, WA 98011-8244
PH: (425) 420.9200 FAX: (425) 420.9210

Amended Report

EA Engineering, Science and Technology	Project Name:	Tiki Carwash	
12011 NE 1st Street, Suite 100	Project Number:	61994.01	Report Created:
Bellevue, WA/USA 98005	Project Manager:	Jill Frain	06/16/06 15:41

Gasoline Hydrocarbons (Benzene to Naphthalene) and BTEX by NWTPH-G and EPA 8021B

TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BPD0657-12 (TK-GP7-SS-7)		Soil			Sampled: 04/25/06 08:35					
Gasoline Range Hydrocarbons	NWTPH-Gx/802 1B	ND	—	5.98	mg/kg dry	1x	6D30006	04/30/06 18:41	05/01/06 01:36	
Benzene	"	ND	—	0.0359	"	"	"	"	"	
Toluene	"	ND	—	0.0598	"	"	"	"	"	
Ethylbenzene	"	ND	—	0.0598	"	"	"	"	"	
Xylenes (total)	"	ND	—	0.120	"	"	"	"	"	
Surrogate(s): 4-BFB (FID)		*88.6%*			*50 - 150 %*	"			"	
4-BFB (PID)		*96.7%*			*53 - 142 %*	"			"	
BPD0657-13 (TK-GP7-SS-7D)		Soil			Sampled: 04/25/06 08:45					
Gasoline Range Hydrocarbons	NWTPH-Gx/802 1B	ND	—	5.65	mg/kg dry	1x	6D29019	04/29/06 17:50	04/30/06 05:16	
Benzene	"	ND	—	0.0339	"	"	"	"	"	
Toluene	"	ND	—	0.0565	"	"	"	"	"	
Ethylbenzene	"	ND	—	0.0565	"	"	"	"	"	
Xylenes (total)	"	ND	—	0.113	"	"	"	"	"	
Surrogate(s): 4-BFB (FID)		*77.6%*			*50 - 150 %*	"			"	
4-BFB (PID)		*98.5%*			*53 - 142 %*	"			"	
BPD0657-14 (TK-GP7-GW-15)		Water			Sampled: 04/25/06 09:00					
Gasoline Range Hydrocarbons	NWTPH-Gx/802 1B	ND	—	50.0	ug/l	1x	6D29016	04/29/06 17:24	04/30/06 09:12	
Benzene	"	ND	—	0.500	"	"	"	"	"	
Toluene	"	ND	—	0.500	"	"	"	"	"	
Ethylbenzene	"	ND	—	0.500	"	"	"	"	"	
Xylenes (total)	"	ND	—	1.00	"	"	"	"	"	
Surrogate(s): 4-BFB (FID)		*89.2%*			*58 - 144 %*	"			"	
4-BFB (PID)		*101%*			*68 - 140 %*	"			"	
BPD0657-15 (TK-GP7-GW-15D)		Water			Sampled: 04/25/06 09:10					
Gasoline Range Hydrocarbons	NWTPH-Gx/802 1B	ND	—	50.0	ug/l	1x	6D29016	04/29/06 17:24	04/30/06 09:43	
Benzene	"	ND	—	0.500	"	"	"	"	"	
Toluene	"	ND	—	0.500	"	"	"	"	"	
Ethylbenzene	"	ND	—	0.500	"	"	"	"	"	
Xylenes (total)	"	ND	—	1.00	"	"	"	"	"	
Surrogate(s): 4-BFB (FID)		*88.3%*			*58 - 144 %*	"			"	
4-BFB (PID)		*101%*			*68 - 140 %*	"			"	

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Amended Report

EA Engineering, Science and Technology	Project Name:	Tiki Carwash	Report Created:
12011 NE 1st Street, Suite 100	Project Number:	61994.01	06/16/06 15:41
Bellevue, WA/USA 98005	Project Manager:	Jill Frain	

Gasoline Hydrocarbons (Benzene to Naphthalene) and BTEX by NWTPH-G and EPA 8021B

TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BPD0657-16 (TK-GP8-SS-10)		Soil				Sampled: 04/25/06 10:10				
Gasoline Range Hydrocarbons	NWTPH-Gx/802 IB	6.07	—	3.90	mg/kg dry	1x	6D30006	04/30/06 18:41	05/01/06 02:37	
Benzene	"	0.504	—	0.0234	"	"	"	"	"	
Toluene	"	ND	—	0.0390	"	"	"	"	"	
Ethylbenzene	"	0.306	—	0.0390	"	"	"	"	"	
Xylenes (total)	"	0.428	—	0.0781	"	"	"	"	"	
Surrogate(s): 4-BFB (FID)		*91.0%*			*50 - 150 %*	"			"	
4-BFB (PID)		*97.4%*			*53 - 142 %*	"			"	
BPD0657-17 (TK-GP8-GW-14)		Water				Sampled: 04/25/06 10:30				
Gasoline Range Hydrocarbons	NWTPH-Gx/802 IB	18700	—	250	ug/l	5x	6D29016	04/29/06 17:24	04/30/06 04:36	
Toluene	"	111	—	2.50	"	"	"	"	"	
Surrogate(s): 4-BFB (FID)		*114%*			*58 - 144 %*	*1x*			"	
4-BFB (PID)		*106%*			*68 - 140 %*	"			"	
BPD0657-17RE1 (TK-GP8-GW-14)		Water				Sampled: 04/25/06 10:30				
Benzene	NWTPH-Gx/802 IB	2880	—	25.0	ug/l	50x	6E02043	05/02/06 13:45	05/03/06 09:30	
Ethylbenzene	"	486	—	25.0	"	"	"	"	"	
Xylenes (total)	"	734	—	50.0	"	"	"	"	"	
Surrogate(s): 4-BFB (FID)		*91.0%*			*58 - 144 %*	*1x*			"	
4-BFB (PID)		*99.0%*			*68 - 140 %*	"			"	
BPD0657-18 (TK-GP-TB)		Water				Sampled: 04/24/06 00:00				
Gasoline Range Hydrocarbons	NWTPH-Gx/802 IB	ND	—	50.0	ug/l	1x	6D29016	04/29/06 17:24	04/30/06 02:03	
Benzene	"	ND	—	0.500	"	"	"	"	"	
Toluene	"	ND	—	0.500	"	"	"	"	"	
Ethylbenzene	"	ND	—	0.500	"	"	"	"	"	
Xylenes (total)	"	ND	—	1.00	"	"	"	"	"	
Surrogate(s): 4-BFB (FID)		*88.7%*			*58 - 144 %*	"			"	
4-BFB (PID)		*101%*			*68 - 140 %*	"			"	

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Amended Report

EA Engineering, Science and Technology	Project Name:	Tiki Carwash	
12011 NE 1st Street, Suite 100	Project Number:	61994.01	Report Created:
Bellevue, WA/USA 98005	Project Manager:	Jill Frain	06/16/06 15:41

Gasoline Hydrocarbons (Benzene to Naphthalene) and BTEX by NWTPH-G and EPA 8021B

TestAmerica - Seattle, WA

Analyte	Method	Result	MDL[A]	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BPD0657-19 (TK-GP9-SS-4)		**Soil**			**Sampled: 04/25/06 11:25**					
Gasoline Range Hydrocarbons	NWTPH-Gx/802 1B	1940	—	74.0	mg/kg dry	20x	6D29019	04/29/06 17:50	04/30/06 12:27	
Benzene	"	17.4	—	0.444	"	"	"	"	"	I-06
Toluene	"	68.4	—	0.740	"	"	"	"	"	
Ethylbenzene	"	27.2	—	0.740	"	"	"	"	"	
Xylenes (total)	"	155	—	1.48	"	"	"	"	"	
Surrogate(s): 4-BFB (FID)		*107%*			*50 - 150 %*	*1x*			"	
4-BFB (PID)		*88.7%*			*53 - 142 %*	"			"	
BPD0657-20 (TK-GP9-SS-8)		**Soil**			**Sampled: 04/25/06 11:40**					
Gasoline Range Hydrocarbons	NWTPH-Gx/802 1B	12.0	—	3.96	mg/kg dry	1x	6D30006	04/30/06 18:41	05/01/06 07:45	
Benzene	"	1.04	—	0.0238	"	"	"	"	"	
Toluene	"	0.664	—	0.0396	"	"	"	"	"	
Ethylbenzene	"	0.202	—	0.0396	"	"	"	"	"	
Xylenes (total)	"	1.23	—	0.0793	"	"	"	"	"	
Surrogate(s): 4-BFB (FID)		*89.9%*			*50 - 150 %*	"			"	
4-BFB (PID)		*94.1%*			*53 - 142 %*	"			"	
BPD0657-21 (TK-GP9-GW-8)		**Water**			**Sampled: 04/25/06 12:00**					
Gasoline Range Hydrocarbons	NWTPH-Gx/802 1B	227000	—	25000	ug/l	500x	6E02043	05/02/06 13:45	05/03/06 10:01	
Benzene	"	25700	—	250	"	"	"	"	"	
Toluene	"	36400	—	250	"	"	"	"	"	
Ethylbenzene	"	3440	—	250	"	"	"	"	"	
Xylenes (total)	"	19700	—	500	"	"	"	"	"	
Surrogate(s): 4-BFB (FID)		*90.2%*			*58 - 144 %*	*1x*			"	
4-BFB (PID)		*99.8%*			*68 - 140 %*	"			"	
BPD0657-22 (TK-GP10-SS-7)		**Soil**			**Sampled: 04/25/06 13:30**					
Gasoline Range Hydrocarbons	NWTPH-Gx/802 1B	ND	—	3.82	mg/kg dry	1x	6D30006	04/30/06 18:41	05/01/06 08:16	
Benzene	"	0.238	—	0.0229	"	"	"	"	"	
Toluene	"	ND	—	0.0382	"	"	"	"	"	
Ethylbenzene	"	0.0783	—	0.0382	"	"	"	"	"	
Xylenes (total)	"	0.100	—	0.0765	"	"	"	"	"	
Surrogate(s): 4-BFB (FID)		*89.5%*			*50 - 150 %*	"			"	
4-BFB (PID)		*95.2%*			*53 - 142 %*	"			"	

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Amended Report

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Amended Report

EA Engineering, Science and Technology	Project Name: **Tiki Carwash**	Report Created:
12011 NE 1st Street, Suite 100	Project Number: 61994.01	06/16/06 15:41
Bellevue, WA/USA 98005	Project Manager: Jill Frain	

Gasoline Hydrocarbons (Benzene to Naphthalene) and BTEX by NWTPH-G and EPA 8021B

TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BPD0657-23 (TK-GP10-GW-10)	Water				Sampled: 04/25/06 13:45					
Gasoline Range Hydrocarbons	NWTPH-Gx/802 1B	5710	—	1000	ug/l	20x	6D30008	04/30/06 19:13	05/01/06 08:47	
Benzene	"	1110	—	10.0	"	"	"	"	"	
Toluene	"	27.1	—	10.0	"	"	"	"	"	
Ethylbenzene	"	186	—	10.0	"	"	"	"	"	
Xylenes (total)	"	276	—	20.0	"	"	"	"	"	
Surrogate(s): 4-BFB (FID)		*91.5%*			*58 - 141 %*	*1x*			"	
4-BFB (PID)		*99.8%*			*68 - 140 %*	"			"	
BPD0657-24 (TK-GP11-SS-3)	Soil				Sampled: 04/25/06 14:41					
Gasoline Range Hydrocarbons	NWTPH-Gx/802 1B	585	—	21.3	mg/kg dry	5x	6D29019	04/29/06 17:50	04/30/06 08:51	
Benzene	"	1.02	—	0.128	"	"	"	"	"	1-06
Toluene	"	1.05	—	0.213	"	"	"	"	"	
Ethylbenzene	"	2.49	—	0.213	"	"	"	"	"	
Xylenes (total)	"	4.65	—	0.425	"	"	"	"	"	
Surrogate(s): 4-BFB (FID)		*115%*			*50 - 150 %*	*1x*			"	
4-BFB (PID)		*91.4%*			*53 - 142 %*	"			"	
BPD0657-25 (TK-GP12-SS-8)	Soil				Sampled: 04/25/06 15:40					
Gasoline Range Hydrocarbons	NWTPH-Gx/802 1B	ND	—	3.78	mg/kg dry	1x	6D29019	04/29/06 17:50	04/30/06 05:46	
Benzene	"	ND	—	0.0227	"	"	"	"	"	
Toluene	"	ND	—	0.0378	"	"	"	"	"	
Ethylbenzene	"	ND	—	0.0378	"	"	"	"	"	
Xylenes (total)	"	ND	—	0.0755	"	"	"	"	"	
Surrogate(s): 4-BFB (FID)		*93.8%*			*50 - 150 %*	"			"	
4-BFB (PID)		*98.2%*			*53 - 142 %*	"			"	
BPD0657-26 (TK-GP12-SS-8D)	Soil				Sampled: 04/25/06 15:45					
Gasoline Range Hydrocarbons	NWTPH-Gx/802 1B	ND	—	3.78	mg/kg dry	1x	6D29019	04/29/06 17:50	04/30/06 06:17	
Benzene	"	ND	—	0.0227	"	"	"	"	"	
Toluene	"	ND	—	0.0378	"	"	"	"	"	
Ethylbenzene	"	ND	—	0.0378	"	"	"	"	"	
Xylenes (total)	"	ND	—	0.0756	"	"	"	"	"	
Surrogate(s): 4-BFB (FID)		*86.3%*			*50 - 150 %*	"			"	
4-BFB (PID)		*98.2%*			*53 - 142 %*	"			"	

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Amended Report

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Amended Report

EA Engineering, Science and Technology	Project Name: **Tiki Carwash**	
12011 NE 1st Street, Suite 100	Project Number: 61994.01	Report Created:
Bellevue, WA/USA 98005	Project Manager: Jill Frain	06/16/06 15:41

Gasoline Hydrocarbons (Benzene to Naphthalene) and BTEX by NWTPH-G and EPA 8021B

TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BPD0657-27 (TK-GP12-GW-12)		Water			Sampled: 04/25/06 15:55					
Gasoline Range Hydrocarbons	NWTPH-Gx/802 1B	ND	—	50.0	ug/l	1x	6D29016	04/29/06 17:24	04/30/06 10:13	
Benzene	"	ND	—	0.500	"	"	"	"	"	
Toluene	"	0.525	—	0.500	"	"	"	"	"	
Ethylbenzene	"	ND	—	0.500	"	"	"	"	"	
Xylenes (total)	"	ND	—	1.00	"	"	"	"	"	
Surrogate(s): 4-BFB (FID)		*87.8%*			*58 - 144 %*	"			"	
4-BFB (PID)		*98.8%*			*68 - 140 %*	"			"	

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Amended Report

EA Engineering, Science and Technology
12011 NE 1st Street, Suite 100
Bellevue, WA/USA 98005

Project Name: Tiki Carwash
Project Number: 61994.01
Project Manager: Jill Frain

Report Created: 06/16/06 15:41

Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up)

TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BPD0657-01 (TK-GP1-SS-7)		Soil				Sampled: 04/24/06 08:50				D-08
Diesel Range Hydrocarbons	NWTPH-Dx	28.8	—	13.3	mg/kg dry	1x	6E01025	05/01/06 09:54	05/02/06 22:28	
Lube Oil Range Hydrocarbons	"	ND	—	33.3	"	"	"	"	"	
Surrogate(s): 2-FBP		*102%*			*50 - 150 %*	"			"	
Octacosane		*88.6%*			*50 - 150 %*	"			"	
BPD0657-02 (TK-GP1-GW-14)		Water				Sampled: 04/24/06 09:10				
Diesel Range Hydrocarbons	NWTPH-Dx	1.04	—	0.250	mg/l	1x	6D28028	04/28/06 11:08	05/02/06 16:32	
Lube Oil Range Hydrocarbons	"	0.562	—	0.500	"	"	"	"	"	
Surrogate(s): 2-FBP		*86.0%*			*50 - 150 %*	"			"	
Octacosane		*94.4%*			*50 - 150 %*	"			"	
BPD0657-03 (TK-GP2-SS-8)		Soil				Sampled: 04/24/06 10:48				D-09
Diesel Range Hydrocarbons	NWTPH-Dx	67.0	—	59.2	mg/kg dry	5x	6E01025	05/01/06 09:54	05/02/06 22:57	
Lube Oil Range Hydrocarbons	"	626	—	148	"	"	"	"	"	
Surrogate(s): 2-FBP		*108%*			*50 - 150 %*	"			"	
Octacosane		*102%*			*50 - 150 %*	"			"	
BPD0657-04 (TK-GP3-SS-7)		Soil				Sampled: 04/24/06 11:25				D-08
Diesel Range Hydrocarbons	NWTPH-Dx	69.0	—	11.4	mg/kg dry	1x	6E01025	05/01/06 09:54	05/02/06 23:27	
Lube Oil Range Hydrocarbons	"	ND	—	28.5	"	"	"	"	"	
Surrogate(s): 2-FBP		*106%*			*50 - 150 %*	"			"	
Octacosane		*94.4%*			*50 - 150 %*	"			"	
BPD0657-05 (TK-GP3-GW-10)		Water				Sampled: 04/24/06 11:30				
Diesel Range Hydrocarbons	NWTPH-Dx	1.13	—	0.236	mg/l	1x	6D28028	04/28/06 11:08	05/02/06 17:58	
Lube Oil Range Hydrocarbons	"	ND	—	0.472	"	"	"	"	"	
Surrogate(s): 2-FBP		*18.8%*			*50 - 150 %*	"			"	*SR-4*
Octacosane		*77.5%*			*50 - 150 %*	"			"	
BPD0657-06 (TK-GP4-SS-7)		Soil				Sampled: 04/24/06 13:30				D-08
Diesel Range Hydrocarbons	NWTPH-Dx	151	—	11.5	mg/kg dry	1x	6E01025	05/01/06 09:54	05/02/06 23:56	
Lube Oil Range Hydrocarbons	"	ND	—	28.7	"	"	"	"	"	
Surrogate(s): 2-FBP		*113%*			*50 - 150 %*	"			"	
Octacosane		*89.9%*			*50 - 150 %*	"			"	

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Amended Report

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Amended Report

EA Engineering, Science and Technology
12011 NE 1st Street, Suite 100
Bellevue, WA/USA 98005

Project Name: Tiki Carwash
Project Number: 61994.01
Project Manager: Jill Frain

Report Created: 06/16/06 15:41

Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up)

TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BPD0657-07 (TK-GP4-GW-13)		**Water**				**Sampled: 04/24/06 13:45**				
Diesel Range Hydrocarbons	NWTPH-Dx	7.51	—	1.25	mg/l	5x	6D28028	04/28/06 11:08	05/02/06 18:24	
Lube Oil Range Hydrocarbons	"	ND	—	2.50	"	"	"	"	"	
Surrogate(s): 2-FBP		*107%*			*50 - 150 %*	"			"	
Octacosane		*92.4%*			*50 - 150 %*	"			"	
BPD0657-08 (TK-GP5-SS-4)		**Soil**				**Sampled: 04/24/06 14:50**				
Diesel Range Hydrocarbons	NWTPH-Dx	36.1	—	12.0	mg/kg dry	1x	6E01025	05/01/06 09:54	05/03/06 00:25	D-08
Lube Oil Range Hydrocarbons	"	ND	—	30.1	"	"	"	"	"	
Surrogate(s): 2-FBP		*103%*			*50 - 150 %*	"			"	
Octacosane		*90.4%*			*50 - 150 %*	"			"	
BPD0657-09 (TK-GP5-GW-12)		**Water**				**Sampled: 04/24/06 15:10**				
Diesel Range Hydrocarbons	NWTPH-Dx	1.36	—	0.236	mg/l	1x	6D28028	04/28/06 11:08	05/02/06 18:53	
Lube Oil Range Hydrocarbons	"	0.618	—	0.472	"	"	"	"	"	
Surrogate(s): 2-FBP		*82.2%*			*50 - 150 %*	"			"	
Octacosane		*94.5%*			*50 - 150 %*	"			"	
BPD0657-10 (TK-GP6-SS-5)		**Soil**				**Sampled: 04/24/06 16:30**				
Diesel Range Hydrocarbons	NWTPH-Dx	97.9	—	11.0	mg/kg dry	1x	6E01025	05/01/06 09:54	05/03/06 00:54	D-08
Lube Oil Range Hydrocarbons	"	ND	—	27.6	"	"	"	"	"	
Surrogate(s): 2-FBP		*119%*			*50 - 150 %*	"			"	
Octacosane		*98.7%*			*50 - 150 %*	"			"	
BPD0657-11 (TK-GP6-GW-7)		**Water**				**Sampled: 04/24/06 16:50**				
Diesel Range Hydrocarbons	NWTPH-Dx	1.08	—	0.248	mg/l	1x	6D28028	04/28/06 11:08	05/02/06 19:06	D-08
Lube Oil Range Hydrocarbons	"	ND	—	0.495	"	"	"	"	"	
Surrogate(s): 2-FBP		*88.3%*			*50 - 150 %*	"			"	
Octacosane		*96.8%*			*50 - 150 %*	"			"	
BPD0657-12 (TK-GP7-SS-7)		**Soil**				**Sampled: 04/25/06 08:35**				
Diesel Range Hydrocarbons	NWTPH-Dx	ND	—	14.0	mg/kg dry	1x	6E01025	05/01/06 09:54	05/03/06 01:23	
Lube Oil Range Hydrocarbons	"	ND	—	35.1	"	"	"	"	"	
Surrogate(s): 2-FBP		*100%*			*50 - 150 %*	"			"	
Octacosane		*93.2%*			*50 - 150 %*	"			"	

TestAmerica - Seattle, WA

Amended Report

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TestAmerica
ANALYTICAL TESTING CORPORATION

SEATTLE, WA 11720 NORTH CREEK PKWY N, SUITE 400
BOTHELL, WA 98011-8244
PH: (425) 420.9200 FAX: (425) 420.9210

Amended Report

EA Engineering, Science and Technology
12011 NE 1st Street, Suite 100
Bellevue, WA/USA 98005

Project Name: Tiki Carwash
Project Number: 61994.01
Project Manager: Jill Frain

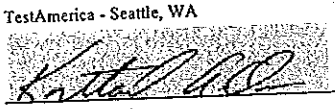
Report Created: 06/16/06 15:41

Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up)

TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BPD0657-13 (TK-GP7-SS-7D)		Soil				Sampled: 04/25/06 08:45				
Diesel Range Hydrocarbons	NWTPH-Dx	ND	—	14.5	mg/kg dry	1x	6E01025	05/01/06 09:54	05/03/06 01:52	
Lube Oil Range Hydrocarbons	"	ND	—	36.3	"	"	"	"	"	
Surrogate(s): 2-FBP		*95.9%*			*50 - 150 %*	"			"	
Octacosane		*89.3%*			*50 - 150 %*	"			"	
BPD0657-14 (TK-GP7-GW-15)		Water				Sampled: 04/25/06 09:00				
Diesel Range Hydrocarbons	NWTPH-Dx	1.05	—	0.243	mg/l	1x	6D28028	04/28/06 11:08	05/02/06 19:38	D-09
Lube Oil Range Hydrocarbons	"	1.14	—	0.485	"	"	"	"	"	
Surrogate(s): 2-FBP		*86.4%*			*50 - 150 %*	"			"	
Octacosane		*108%*			*50 - 150 %*	"			"	
BPD0657-15 (TK-GP7-GW-15D)		Water				Sampled: 04/25/06 09:10				
Diesel Range Hydrocarbons	NWTPH-Dx	0.909	—	0.243	mg/l	1x	6D28028	04/28/06 11:08	05/02/06 19:51	D-09
Lube Oil Range Hydrocarbons	"	1.12	—	0.485	"	"	"	"	"	
Surrogate(s): 2-FBP		*80.7%*			*50 - 150 %*	"			"	
Octacosane		*100%*			*50 - 150 %*	"			"	
BPD0657-16 (TK-GP8-SS-10)		Soil				Sampled: 04/25/06 10:10				
Diesel Range Hydrocarbons	NWTPH-Dx	ND	—	11.2	mg/kg dry	1x	6E01025	05/01/06 09:54	05/03/06 02:21	
Lube Oil Range Hydrocarbons	"	ND	—	28.1	"	"	"	"	"	
Surrogate(s): 2-FBP		*97.6%*			*50 - 150 %*	"			"	
Octacosane		*89.9%*			*50 - 150 %*	"			"	
BPD0657-17 (TK-GP8-GW-14)		Water				Sampled: 04/25/06 10:30				
Diesel Range Hydrocarbons	NWTPH-Dx	1.23	—	0.243	mg/l	1x	6D28028	04/28/06 11:08	05/02/06 20:21	D-08
Lube Oil Range Hydrocarbons	"	ND	—	0.485	"	"	"	"	"	
Surrogate(s): 2-FBP		*100%*			*50 - 150 %*	"			"	
Octacosane		*94.7%*			*50 - 150 %*	"			"	
BPD0657-19RE1 (TK-GP9-SS-4)		Soil				Sampled: 04/25/06 11:25				
Diesel Range Hydrocarbons	NWTPH-Dx	617	—	57.0	mg/kg dry	5x	6E01025	05/01/06 09:54	05/04/06 09:58	D-08
Lube Oil Range Hydrocarbons	"	ND	—	142	"	"	"	"	"	
Surrogate(s): 2-FBP		*134%*			*50 - 150 %*	"			"	
Octacosane		*83.1%*			*50 - 150 %*	"			"	

TestAmerica - Seattle, WA



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The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Amended Report

TestAmerica
ANALYTICAL TESTING CORPORATION

SEATTLE, WA 11720 NORTH CREEK PKWY N, SUITE 400
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Amended Report

EA Engineering, Science and Technology
12011 NE 1st Street, Suite 100
Bellevue, WA/USA 98005

Project Name: Tiki Carwash
Project Number: 61994.01
Project Manager: Jill Frain

Report Created: 06/16/06 15:41

Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up)

TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BPD0657-20 (TK-GP9-SS-8)		**Soil**			**Sampled: 04/25/06 11:40**					
Diesel Range Hydrocarbons	NWTPH-Dx	ND	----	11.0	mg/kg dry	1x	6E01025	05/01/06 09:54	05/03/06 04:46	
Lube Oil Range Hydrocarbons	"	ND	----	27.4	"	"	"	"	"	
Surrogate(s): 2-FBP		*96.4%*			*50 - 150 %*	"			"	
Octacosane		*91.9%*			*50 - 150 %*	"			"	
BPD0657-21 (TK-GP9-GW-8)		**Water**			**Sampled: 04/25/06 12:00**					
Diesel Range Hydrocarbons	NWTPH-Dx	149	----	23.6	mg/l	100x	6D28028	04/28/06 11:08	05/03/06 11:55	
Lube Oil Range Hydrocarbons	"	ND	----	47.2	"	"	"	"	"	
Surrogate(s): 2-FBP		*NR*			*50 - 150 %*	"			"	*S-01*
Octacosane		*NR*			*50 - 150 %*	"			"	*S-01*
BPD0657-22 (TK-GP10-SS-7)		**Soil**			**Sampled: 04/25/06 13:30**					
Diesel Range Hydrocarbons	NWTPH-Dx	ND	----	11.2	mg/kg dry	1x	6E01025	05/01/06 09:54	05/03/06 05:15	
Lube Oil Range Hydrocarbons	"	ND	----	27.9	"	"	"	"	"	
Surrogate(s): 2-FBP		*91.7%*			*50 - 150 %*	"			"	
Octacosane		*87.5%*			*50 - 150 %*	"			"	
BPD0657-23 (TK-GP10-GW-10)		**Water**			**Sampled: 04/25/06 13:45**					
Diesel Range Hydrocarbons	NWTPH-Dx	0.303	----	0.236	mg/l	1x	6D28028	04/28/06 11:08	05/02/06 21:05	D-08
Lube Oil Range Hydrocarbons	"	ND	----	0.472	"	"	"	"	"	
Surrogate(s): 2-FBP		*86.9%*			*50 - 150 %*	"			"	
Octacosane		*96.2%*			*50 - 150 %*	"			"	
BPD0657-24 (TK-GP11-SS-3)		**Soil**			**Sampled: 04/25/06 14:41**					
Diesel Range Hydrocarbons	NWTPH-Dx	ND	----	11.2	mg/kg dry	1x	6E01025	05/01/06 09:54	05/03/06 05:44	
Lube Oil Range Hydrocarbons	"	ND	----	28.0	"	"	"	"	"	
Surrogate(s): 2-FBP		*95.8%*			*50 - 150 %*	"			"	
Octacosane		*90.6%*			*50 - 150 %*	"			"	
BPD0657-25 (TK-GP12-SS-8)		**Soil**			**Sampled: 04/25/06 15:40**					
Diesel Range Hydrocarbons	NWTPH-Dx	ND	----	11.1	mg/kg dry	1x	6E01025	05/01/06 09:54	05/03/06 06:13	
Lube Oil Range Hydrocarbons	"	52.7	----	27.8	"	"	"	"	"	
Surrogate(s): 2-FBP		*103%*			*50 - 150 %*	"			"	
Octacosane		*99.0%*			*50 - 150 %*	"			"	

TestAmerica - Seattle, WA

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Amended Report

EA Engineering, Science and Technology
12011 NE 1st Street, Suite 100
Bellevue, WA/USA 98005

Project Name: Tiki Carwash
Project Number: 61994.01
Project Manager: Jill Frain

Report Created: 06/16/06 15:41

Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up)

TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BPD0657-26 (TK-GP12-SS-8D)		**Soil**				**Sampled: 04/25/06 15:45**				
Diesel Range Hydrocarbons	NWTPH-Dx	ND	—	11.1	mg/kg dry	1x	6E01025	05/01/06 09:54	05/03/06 06:41	
Lube Oil Range Hydrocarbons	"	83.3	—	27.7	"	"	"	"	"	
Surrogate(s): 2-FBP		*108%*			*50 - 150 %*	"			"	
Octacosane		*109%*			*50 - 150 %*	"			"	
BPD0657-27 (TK-GP12-GW-12)		**Water**				**Sampled: 04/25/06 15:55**				
Diesel Range Hydrocarbons	NWTPH-Dx	ND	—	1.56	mg/l	1x	6D28028	04/28/06 11:08	05/02/06 21:20	
Lube Oil Range Hydrocarbons	"	ND	—	3.12	"	"	"	"	"	
Surrogate(s): 2-FBP		*65.4%*			*50 - 150 %*	"			"	
Octacosane		*82.7%*			*50 - 150 %*	"			"	

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Amended Report

EA Engineering, Science and Technology
12011 NE 1st Street, Suite 100
Bellevue, WA/USA 98005

Project Name: Tiki Carwash
Project Number: 61994.01
Project Manager: Jill Frain

Report Created: 06/16/06 15:41

Volatile Organic Compounds by EPA Method 8260B

TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BPD0657-02 (TK-GP1-GW-14)		Water			Sampled: 04/24/06 09:10					
Acetone	EPA 8260B	23.0	—	10.0	ug/l	1x	6D28059	04/28/06 10:34	04/28/06 23:25	
Benzene	"	164	—	0.200	"	"	"	"	"	
Bromobenzene	"	ND	—	0.500	"	"	"	"	"	
Bromochloromethane	"	ND	—	0.200	"	"	"	"	"	
Bromodichloromethane	"	ND	—	0.200	"	"	"	"	"	
Bromoform	"	ND	—	0.200	"	"	"	"	"	
Bromomethane	"	ND	—	2.00	"	"	"	"	"	
2-Butanone	"	6.42	—	2.00	"	"	"	"	"	
n-Butylbenzene	"	7.75	—	0.200	"	"	"	"	"	
sec-Butylbenzene	"	ND	—	0.200	"	"	"	"	"	
tert-Butylbenzene	"	ND	—	0.500	"	"	"	"	"	
Carbon disulfide	"	ND	—	0.500	"	"	"	"	"	
Carbon tetrachloride	"	ND	—	0.200	"	"	"	"	"	
Chlorobenzene	"	ND	—	0.200	"	"	"	"	"	
Chloroethane	"	ND	—	1.00	"	"	"	"	"	
Chloroform	"	ND	—	0.200	"	"	"	"	"	
Chloromethane	"	ND	—	1.00	"	"	"	"	"	
2-Chlorotoluene	"	ND	—	0.500	"	"	"	"	"	
4-Chlorotoluene	"	ND	—	0.500	"	"	"	"	"	
Dibromochloromethane	"	ND	—	0.200	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	"	ND	—	0.500	"	"	"	"	"	
1,2-Dibromoethane	"	ND	—	0.200	"	"	"	"	"	
Dibromomethane	"	ND	—	0.200	"	"	"	"	"	
1,2-Dichlorobenzene	"	ND	—	0.200	"	"	"	"	"	
1,3-Dichlorobenzene	"	ND	—	0.200	"	"	"	"	"	
1,4-Dichlorobenzene	"	ND	—	0.200	"	"	"	"	"	
Dichlorodifluoromethane	"	ND	—	0.500	"	"	"	"	"	Q-40
1,1-Dichloroethane	"	ND	—	0.200	"	"	"	"	"	
1,2-Dichloroethane	"	ND	—	0.200	"	"	"	"	"	
1,1-Dichloroethene	"	ND	—	0.200	"	"	"	"	"	
cis-1,2-Dichloroethene	"	ND	—	0.200	"	"	"	"	"	
trans-1,2-Dichloroethene	"	ND	—	0.200	"	"	"	"	"	
1,2-Dichloropropane	"	ND	—	0.200	"	"	"	"	"	
1,3-Dichloropropane	"	ND	—	0.200	"	"	"	"	"	
2,2-Dichloropropane	"	ND	—	0.500	"	"	"	"	"	
1,1-Dichloropropene	"	ND	—	0.200	"	"	"	"	"	
cis-1,3-Dichloropropene	"	ND	—	0.200	"	"	"	"	"	
trans-1,3-Dichloropropene	"	ND	—	0.200	"	"	"	"	"	

TestAmerica - Seattle, WA

Amended Report

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ANALYTICAL TESTING CORPORATION

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Amended Report

EA Engineering, Science and Technology	Project Name: **Tiki Carwash**	
12011 NE 1st Street, Suite 100	Project Number: 61994.01	Report Created:
Bellevue, WA/USA 98005	Project Manager: Jill Frain	06/16/06 15:41

Volatile Organic Compounds by EPA Method 8260B

TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BPD0657-02 (TK-GP1-GW-14)		Water		Sampled: 04/24/06 09:10						
Ethylbenzene	EPA 8260B	565	—	0.200	ug/l	1x	6D28059	04/28/06 10:34	04/28/06 23:25	E-01
Hexachlorobutadiene	"	ND	—	0.500	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	—	1.00	"	"	"	"	"	
n-Hexane	"	36.5	—	1.00	"	"	"	"	"	
2-Hexanone	"	ND	—	2.00	"	"	"	"	"	
Isopropylbenzene	"	36.9	—	0.500	"	"	"	"	"	
p-Isopropyltoluene	"	4.26	—	0.200	"	"	"	"	"	
4-Methyl-2-pentanone	"	ND	—	2.00	"	"	"	"	"	
Methylene chloride	"	ND	—	5.00	"	"	"	"	"	
Naphthalene	"	123	—	0.500	"	"	"	"	"	
n-Propylbenzene	"	87.4	—	0.500	"	"	"	"	"	
Styrene	"	ND	—	0.500	"	"	"	"	"	
1,2,3-Trichlorobenzene	"	ND	—	0.200	"	"	"	"	"	
1,2,4-Trichlorobenzene	"	ND	—	0.200	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	"	ND	—	0.200	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	"	ND	—	0.500	"	"	"	"	"	
Tetrachloroethene	"	ND	—	0.200	"	"	"	"	"	
Toluene	"	41.3	—	0.200	"	"	"	"	"	
1,1,1-Trichloroethane	"	ND	—	0.200	"	"	"	"	"	
1,1,2-Trichloroethane	"	ND	—	0.200	"	"	"	"	"	
Trichloroethene	"	ND	—	0.200	"	"	"	"	"	
Trichlorofluoromethane	"	ND	—	0.500	"	"	"	"	"	
1,2,3-Trichloropropane	"	ND	—	0.500	"	"	"	"	"	
1,2,4-Trimethylbenzene	"	623	—	0.200	"	"	"	"	"	E-01
1,3,5-Trimethylbenzene	"	116	—	0.500	"	"	"	"	"	
Vinyl chloride	"	ND	—	0.200	"	"	"	"	"	
o-Xylene	"	243	—	0.250	"	"	"	"	"	E-01
m,p-Xylene	"	1170	—	0.500	"	"	"	"	"	E-01
Surrogate(s): *1,2-DCA-d4*		*84.0%*		*70 - 130 %*	"				"	
Toluene-d8		*99.5%*		*70 - 130 %*	"				"	
4-BFB		*100%*		*70 - 130 %*	"				"	

Amended Report

Kortland Orr, PM

TestAmerica
ANALYTICAL TESTING CORPORATION

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Amended Report

EA Engineering, Science and Technology	Project Name: Tiki Carwash	Report Created:
12011 NE 1st Street, Suite 100	Project Number: 61994.01	06/16/06 15:41
Bellevue, WA/USA 98005	Project Manager: Jill Frain	

Volatile Organic Compounds by EPA Method 8260B

TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BPD0657-02RE1 (TK-GP1-GW-14)		Water			Sampled: 04/24/06 09:10					A-01
Ethylbenzene	EPA 8260B	161	—	4.00	ug/l	20x	6E02035	05/02/06 10:24	05/02/06 20:00	
1,2,4-Trimethylbenzene	"	166	—	4.00	"	"	"	"	"	
o-Xylene	"	87.6	—	5.00	"	"	"	"	"	
m,p-Xylene	"	427	—	10.0	"	"	"	"	"	
Surrogate(s): 1,2-DCA-d4		*79.2%*			*70 - 130 %*	*1x*			"	
Toluene-d8		*97.5%*			*70 - 130 %*	"			"	
4-BFB		*101%*			*70 - 130 %*	"			"	

TestAmerica - Seattle, WA

Amended Report

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PH: (425) 420.9200 FAX: (425) 420.9210

Amended Report

EA Engineering, Science and Technology
12011 NE 1st Street, Suite 100
Bellevue, WA/USA 98005

Project Name: Tiki Carwash
Project Number: 61994.01
Project Manager: Jill Frain

Report Created: 06/16/06 15:41

Physical Parameters by APHA/ASTM/EPA Methods

TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BPD0657-01 (TK-GP1-SS-7)	Soil				Sampled: 04/24/06 08:50					
Dry Weight	BSOPSPL003R0 8	76.0	—	1.00	%	1x	6E02049	05/02/06 14:14	05/03/06 00:00	
BPD0657-03 (TK-GP2-SS-8)	Soil				Sampled: 04/24/06 10:48					
Dry Weight	BSOPSPL003R0 8	84.5	—	1.00	%	1x	6E02049	05/02/06 14:14	05/03/06 00:00	
BPD0657-04 (TK-GP3-SS-7)	Soil				Sampled: 04/24/06 11:25					
Dry Weight	BSOPSPL003R0 8	87.0	—	1.00	%	1x	6E02049	05/02/06 14:14	05/03/06 00:00	
BPD0657-06 (TK-GP4-SS-7)	Soil				Sampled: 04/24/06 13:30					
Dry Weight	BSOPSPL003R0 8	87.0	—	1.00	%	1x	6E02049	05/02/06 14:14	05/03/06 00:00	
BPD0657-08 (TK-GP5-SS-4)	Soil				Sampled: 04/24/06 14:50					
Dry Weight	BSOPSPL003R0 8	82.6	—	1.00	%	1x	6E02049	05/02/06 14:14	05/03/06 00:00	
BPD0657-10 (TK-GP6-SS-5)	Soil				Sampled: 04/24/06 16:30					
Dry Weight	BSOPSPL003R0 8	90.2	—	1.00	%	1x	6E02049	05/02/06 14:14	05/03/06 00:00	
BPD0657-12 (TK-GP7-SS-7)	Soil				Sampled: 04/25/06 08:35					
Dry Weight	BSOPSPL003R0 8	71.3	—	1.00	%	1x	6E02049	05/02/06 14:14	05/03/06 00:00	
BPD0657-13 (TK-GP7-SS-7D)	Soil				Sampled: 04/25/06 08:45					
Dry Weight	BSOPSPL003R0 8	69.3	—	1.00	%	1x	6E02049	05/02/06 14:14	05/03/06 00:00	
BPD0657-16 (TK-GP8-SS-10)	Soil				Sampled: 04/25/06 10:10					
Dry Weight	BSOPSPL003R0 8	89.4	—	1.00	%	1x	6E02049	05/02/06 14:14	05/03/06 00:00	
BPD0657-19 (TK-GP9-SS-4)	Soil				Sampled: 04/25/06 11:25					
Dry Weight	BSOPSPL003R0 8	87.2	—	1.00	%	1x	6E02049	05/02/06 14:14	05/03/06 00:00	
BPD0657-20 (TK-GP9-SS-8)	Soil				Sampled: 04/25/06 11:40					

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Amended Report

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Amended Report

EA Engineering, Science and Technology	Project Name: Tiki Carwash	Report Created:
12011 NE 1st Street, Suite 100	Project Number: 61994.01	06/16/06 15:41
Bellevue, WA/USA 98005	Project Manager: Jill Frain	

Physical Parameters by APHA/ASTM/EPA Methods

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Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BPD0657-20 (TK-GP9-SS-8)	Soil					Sampled: 04/25/06 11:40				
Dry Weight	BSOPSPL003R08	90.0	—	1.00	%	1x	6E02049	05/02/06 14:14	05/03/06 00:00	
BPD0657-22 (TK-GP10-SS-7)	Soil					Sampled: 04/25/06 13:30				
Dry Weight	BSOPSPL003R08	88.7	—	1.00	%	1x	6E02049	05/02/06 14:14	05/03/06 00:00	
BPD0657-24 (TK-GP11-SS-3)	Soil					Sampled: 04/25/06 14:41				
Dry Weight	BSOPSPL003R08	89.4	—	1.00	%	1x	6E02049	05/02/06 14:14	05/03/06 00:00	
BPD0657-25 (TK-GP12-SS-8)	Soil					Sampled: 04/25/06 15:40				
Dry Weight	BSOPSPL003R08	89.4	—	1.00	%	1x	6E02049	05/02/06 14:14	05/03/06 00:00	
BPD0657-26 (TK-GP12-SS-8D)	Soil					Sampled: 04/25/06 15:45				
Dry Weight	BSOPSPL003R08	90.8	—	1.00	%	1x	6E02049	05/02/06 14:14	05/03/06 00:00	

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Amended Report

EA Engineering, Science and Technology	Project Name:	Tiki Carwash
12011 NE 1st Street, Suite 100	Project Number:	61994.01
Bellevue, WA/USA 98005	Project Manager:	Jill Frain
		Report Created: 06/16/06 15:41

Gasoline Hydrocarbons (Benzene to Naphthalene) and BTEX by NWTPH-G and EPA 8021B - Laboratory Quality Control Results

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QC Batch: 6D29016 **Water Preparation Method: EPA 5030B (P/T)**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (6D29016-BLK1)							Extracted: 04/29/06 17:24							
Gasoline Range Hydrocarbons	NWTPH-Gx/ 8021B	ND	---	50.0	ug/l	1x	--	--	--	--	--	--	04/29/06 18:23	
Benzene	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Toluene	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Ethylbenzene	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Xylenes (total)	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Surrogate(s): 4-BFB (FID)		*Recovery: 87.3%*			*Limits: 58-144%*	"							*04/29/06 18:23*	
4-BFB (PID)		*99.3%*			*68-140%*	"							"	
LCS (6D29016-BS1)							Extracted: 04/29/06 17:24							
Gasoline Range Hydrocarbons	NWTPH-Gx/ 8021B	957	---	50.0	ug/l	1x	--	1000	95.7%	(80-120)	--	--	04/29/06 18:54	
Benzene	"	11.3	---	0.500	"	"	--	9.65	117%	"	--	--	"	
Toluene	"	69.5	---	0.500	"	"	--	83.5	83.2%	"	--	--	"	
Ethylbenzene	"	15.0	---	0.500	"	"	--	16.7	89.8%	"	--	--	"	
Xylenes (total)	"	81.1	---	1.00	"	"	--	96.3	84.2%	"	--	--	"	
Surrogate(s): 4-BFB (FID)		*Recovery: 95.8%*			*Limits: 58-144%*	"							*04/29/06 18:54*	
4-BFB (PID)		*92.8%*			*68-140%*	"							"	
Duplicate (6D29016-DUP1)					QC Source: BPD0646-02		Extracted: 04/29/06 17:24							
Gasoline Range Hydrocarbons	NWTPH-Gx/ 8021B	ND	---	50.0	ug/l	1x	ND	--	--	--	NR	(25)	04/29/06 19:58	
Benzene	"	ND	---	0.500	"	"	ND	--	--	--			"	
Toluene	"	ND	---	0.500	"	"	ND	--	--	--			"	
Ethylbenzene	"	ND	---	0.500	"	"	ND	--	--	--	NR	"	"	
Xylenes (total)	"	ND	---	1.00	"	"	ND	--	--	--			"	
Surrogate(s): 4-BFB (FID)		*Recovery: 88.8%*			*Limits: 58-144%*	"							*04/29/06 19:58*	
4-BFB (PID)		*99.7%*			*68-140%*	"							"	
Duplicate (6D29016-DUP2)					QC Source: BPD0646-06RE1		Extracted: 04/29/06 17:24							
Gasoline Range Hydrocarbons	NWTPH-Gx/ 8021B	4110	---	250	ug/l	5x	4110	--	--	--	0.00%	(25)	04/30/06 06:38	
Benzene	"	ND	---	2.50	"	"	ND	--	--	--	25.4%	"	"	RP-4
Toluene	"	3.54	---	2.50	"	"	3.99	--	--	--	12.0%	"	"	
Ethylbenzene	"	148	---	2.50	"	"	147	--	--	--	0.678%	"	"	
Xylenes (total)	"	458	---	5.00	"	"	459	--	--	--	0.218%	"	"	
Surrogate(s): 4-BFB (FID)		*Recovery: 100%*			*Limits: 58-144%*	*1x*							*04/30/06 06:38*	
4-BFB (PID)		*109%*			*68-140%*	"							"	

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Amended Report

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Amended Report

EA Engineering, Science and Technology	Project Name:	Tiki Carwash	Report Created:
12011 NE 1st Street, Suite 100	Project Number:	61994.01	06/16/06 15:41
Bellevue, WA/USA 98005	Project Manager:	Jill Frain	

Gasoline Hydrocarbons (Benzene to Naphthalene) and BTEX by NWTPH-G and EPA 8021B - Laboratory Quality Control Results

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QC Batch: 6D29016 — **Water Preparation Method: EPA 5030B (P/T)**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Matrix Spike (6D29016-MS1)					QC Source: BPD0646-02			Extracted: 04/29/06 17:24						
Gasoline Range Hydrocarbons	NWTPH-Gx/ 8021B	1060	---	50.0	ug/l	1x	ND	1000	106%	(75-131)	--	--	04/30/06 00:00	
Benzene	"	11.9	---	0.500	"	"	ND	9.65	123%	(46-130)	--	--	"	
Toluene	"	77.0	---	0.500	"	"	ND	83.5	92.2%	(60-124)	--	--	"	
Ethylbenzene	"	15.8	---	0.500	"	"	ND	16.7	94.6%	(56-141)	--	--	"	
Xylenes (total)	"	89.0	---	1.00	"	"	ND	96.3	92.4%	(66-132)	--	--	"	
Surrogate(s): 4-BFB (FID)		*Recovery: 98.5%*			*Limits: 58-144%*	"							*04/30/06 00:00*	
4-BFB (PID)		*95.2%*			*68-140%*	"							"	

QC Batch: 6D29019 — **Soil Preparation Method: EPA 5030B (MeOH)**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (6D29019-BLK1)								Extracted: 04/29/06 17:50						
Gasoline Range Hydrocarbons	NWTPH-Gx/ 8021B	ND	---	5.00	mg/kg wet	1x	--	--	--	--	--	--	04/29/06 22:13	
Benzene	"	ND	---	0.0300	"	"	--	--	--	--	--	--	"	
Toluene	"	ND	---	0.0500	"	"	--	--	--	--	--	--	"	
Ethylbenzene	"	ND	---	0.0500	"	"	--	--	--	--	--	--	"	
Xylenes (total)	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Surrogate(s): 4-BFB (FID)		*Recovery: 96.0%*			*Limits: 50-150%*	"							*04/29/06 22:13*	
4-BFB (PID)		*100%*			*53-142%*	"							"	
LCS (6D29019-BS1)								Extracted: 04/29/06 17:50						
Gasoline Range Hydrocarbons	NWTPH-Gx/ 8021B	46.5	---	5.00	mg/kg wet	1x	--	50.0	93.0%	(75-125)	--	--	04/29/06 22:43	
Surrogate(s): 4-BFB (FID)		*Recovery: 102%*			*Limits: 50-150%*	"							*04/29/06 22:43*	
LCS (6D29019-BS2)								Extracted: 04/29/06 17:50						
Benzene	NWTPH-Gx/ 8021B	1.37	---	0.0300	mg/kg wet	1x	--	1.50	91.3%	(75-125)	--	--	04/29/06 23:14	
Toluene	"	1.43	---	0.0500	"	"	--	"	95.3%	"	--	--	"	
Ethylbenzene	"	1.41	---	0.0500	"	"	--	"	94.0%	"	--	--	"	
Xylenes (total)	"	4.24	---	0.100	"	"	--	4.50	94.2%	"	--	--	"	
Surrogate(s): 4-BFB (PID)		*Recovery: 101%*			*Limits: 53-142%*	"							*04/29/06 23:14*	
Duplicate (6D29019-DUP1)					QC Source: BPD0657-03			Extracted: 04/29/06 17:50						
Gasoline Range Hydrocarbons	NWTPH-Gx/ 8021B	ND	---	4.17	mg/kg dry	1x	ND	--	--	--	38.6%	(40)	04/30/06 01:10	
Benzene	"	ND	---	0.0250	"	"	ND	--	--	--	0.00%	(35)	"	
Toluene	"	ND	---	0.0417	"	"	ND	--	--	--	17.2%	"	"	
Ethylbenzene	"	ND	---	0.0417	"	"	ND	--	--	--	26.6%	"	"	

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Amended Report

EA Engineering, Science and Technology	Project Name:	Tiki Carwash
12011 NE 1st Street, Suite 100	Project Number:	61994.01
Bellevue, WA/USA 98005	Project Manager:	Jill Frain
		Report Created: 06/16/06 15:41

Gasoline Hydrocarbons (Benzene to Naphthalene) and BTEX by NWTPH-G and EPA 8021B - Laboratory Quality Control Results

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QC Batch: 6D29019 **Soil Preparation Method: EPA 5030B (MeOH)**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Duplicate (6D29019-DUP1)					QC Source: BPD0657-03			Extracted: 04/29/06 17:50						
Xylenes (total)	NWTPH-Gx/ 8021B	ND	---	0.0835	mg/kg dry	1x	ND	--	--	--	13.7%	(35)	04/30/06 01:10	
Surrogate(s): 4-BFB (FID)		*Recovery: 100%*			*Limits: 50-150%*	"							*04/30/06 01:10*	
4-BFB (PID)		*96.0%*			*53-142%*	"							"	
Duplicate (6D29019-DUP2)					QC Source: BPD0657-01			Extracted: 04/29/06 17:50						
Gasoline Range Hydrocarbons	NWTPH-Gx/ 8021B	2470	---	106	mg/kg dry	20x	2400	--	--	--	2.87%	(40)	04/30/06 09:53	
Benzene	"	1.02	---	0.635	"	"	1.00	--	--	--	1.98%	(35)	"	1-06
Toluene	"	3.09	---	1.06	"	"	3.19	--	--	--	3.18%	"	"	
Ethylbenzene	"	21.1	---	1.06	"	"	19.6	--	--	--	7.37%	"	"	
Xylenes (total)	"	107	---	2.12	"	"	98.4	--	--	--	8.37%	"	"	
Surrogate(s): 4-BFB (FID)		*Recovery: 121%*			*Limits: 50-150%*	*1x*							*04/30/06 09:53*	
4-BFB (PID)		*74.8%*			*53-142%*	"							"	
Matrix Spike (6D29019-MS1)					QC Source: BPD0657-03			Extracted: 04/29/06 17:50						
Gasoline Range Hydrocarbons	NWTPH-Gx/ 8021B	47.1	---	4.17	mg/kg dry	1x	2.28	41.7	107%	(42-125)	--	--	04/30/06 03:13	
Surrogate(s): 4-BFB (FID)		*Recovery: 93.6%*			*Limits: 50-150%*	"							*04/30/06 03:13*	
Matrix Spike (6D29019-MS2)					QC Source: BPD0657-03			Extracted: 04/29/06 17:50						
Benzene	NWTPH-Gx/ 8021B	1.21	---	0.0250	mg/kg dry	1x	0.0117	1.25	95.9%	(45-125)	--	--	04/30/06 09:22	
Toluene	"	1.22	---	0.0417	"	"	0.0106	"	96.8%	(55-125)	--	--	"	
Ethylbenzene	"	1.23	---	0.0417	"	"	0.00872	"	97.7%	(53-132)	--	--	"	
Xylenes (total)	"	3.67	---	0.0835	"	"	0.0429	3.76	96.5%	(59-125)	--	--	"	
Surrogate(s): 4-BFB (PID)		*Recovery: 95.6%*			*Limits: 53-142%*	"							*04/30/06 09:22*	

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Amended Report

EA Engineering, Science and Technology	Project Name:	Tiki Carwash	Report Created:
12011 NE 1st Street, Suite 100	Project Number:	61994.01	06/16/06 15:41
Bellevue, WA/USA 98005	Project Manager:	Jill Frain	

Gasoline Hydrocarbons (Benzene to Naphthalene) and BTEX by NWTPH-G and EPA 8021B - Laboratory Quality Control Results

TestAmerica - Seattle, WA

QC Batch: 6D30006 **Soil Preparation Method: EPA 5030B (MeOH)**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (6D30006-BLK1)							Extracted: 04/30/06 18:41							
Gasoline Range Hydrocarbons	NWTPH-Gx/ 8021B	ND	---	5.00	mg/kg wet	1x	--	--	--	--	--	--	04/30/06 22:58	
Benzene	"	ND	---	0.0300	"	"	--	--	--	--	--	--	"	
Toluene	"	ND	---	0.0500	"	"	--	--	--	--	--	--	"	
Ethylbenzene	"	ND	---	0.0500	"	"	--	--	--	--	--	--	"	
Xylenes (total)	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Surrogate(s): 4-BFB (FID)		*Recovery: 87.7%*			*Limits: 50-150%*	"							*04/30/06 22:58*	
4-BFB (PID)		*101%*			*53-142%*	"							"	
LCS (6D30006-BS1)							Extracted: 04/30/06 18:41							
Gasoline Range Hydrocarbons	NWTPH-Gx/ 8021B	48.6	---	5.00	mg/kg wet	1x	--	50.0	97.2%	(75-125)	--	--	05/01/06 01:05	
Benzene	"	0.563	---	0.0300	"	"	--	0.482	117%	"	--	--	"	
Toluene	"	3.60	---	0.0500	"	"	--	4.18	86.1%	"	--	--	"	
Ethylbenzene	"	0.747	---	0.0500	"	"	--	0.835	89.5%	"	--	--	"	
Xylenes (total)	"	4.16	---	0.100	"	"	--	4.82	86.3%	"	--	--	"	
Surrogate(s): 4-BFB (FID)		*Recovery: 95.3%*			*Limits: 50-150%*	"							*05/01/06 01:05*	
4-BFB (PID)		*93.3%*			*53-142%*	"							"	
Duplicate (6D30006-DUP1)							QC Source: BPD0657-12			Extracted: 04/30/06 18:41				
Gasoline Range Hydrocarbons	NWTPH-Gx/ 8021B	ND	---	5.98	mg/kg dry	1x	ND	--	--	--	38.1%	(40)	05/01/06 02:07	
Benzene	"	ND	---	0.0359	"	"	ND	--	--	--	5.75%	(35)	"	
Toluene	"	ND	---	0.0598	"	"	ND	--	--	--	61.4%	"	"	RP-4
Ethylbenzene	"	ND	---	0.0598	"	"	ND	--	--	--	NR	"	"	
Xylenes (total)	"	ND	---	0.120	"	"	ND	--	--	--	NR	"	"	
Surrogate(s): 4-BFB (FID)		*Recovery: 88.9%*			*Limits: 50-150%*	"							*05/01/06 02:07*	
4-BFB (PID)		*97.8%*			*53-142%*	"							"	
Matrix Spike (6D30006-MS1)							QC Source: BPD0657-12			Extracted: 04/30/06 18:41				
Gasoline Range Hydrocarbons	NWTPH-Gx/ 8021B	65.7	---	5.98	mg/kg dry	1x	0.897	59.8	108%	(42-125)	--	--	05/01/06 03:39	
Benzene	"	0.688	---	0.0359	"	"	0.0340	0.577	113%	(45-125)	--	--	"	
Toluene	"	4.28	---	0.0598	"	"	0.0151	4.99	85.5%	(55-125)	--	--	"	
Ethylbenzene	"	0.895	---	0.0598	"	"	0.00454	0.998	89.2%	(53-132)	--	--	"	
Xylenes (total)	"	4.92	---	0.120	"	"	0.0250	5.76	85.0%	(59-125)	--	--	"	
Surrogate(s): 4-BFB (FID)		*Recovery: 99.7%*			*Limits: 50-150%*	"							*05/01/06 03:39*	
4-BFB (PID)		*92.5%*			*53-142%*	"							"	

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Amended Report

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PH: (425) 420.9200 FAX: (425) 420.9210

Amended Report

EA Engineering, Science and Technology
12011 NE 1st Street, Suite 100
Bellevue, WA/USA 98005

Project Name: Tiki Carwash
Project Number: 61994.01
Project Manager: Jill Frain

Report Created: 06/16/06 15:41

Gasoline Hydrocarbons (Benzene to Naphthalene) and BTEX by NWTPH-G and EPA 8021B - Laboratory Quality Control Results

TestAmerica - Seattle, WA

QC Batch: 6D30008 Water Preparation Method: EPA 5030B (P/T)

Analyte	Method	Result	MDL[A]	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (6D30008-BLK1)							Extracted: 04/30/06 19:13							
Gasoline Range Hydrocarbons	NWTPH-Gx/ 8021B	ND	---	50.0	ug/l	1x	--	--	--	--	--	--	04/30/06 23:29	
Benzene	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Toluene	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Ethylbenzene	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Xylenes (total)	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Surrogate(s): 4-BFB (FID)		*Recovery: 89.0%*			*Limits: 58-144%*	"							*04/30/06 23:29*	
4-BFB (PID)		*101%*			*68-140%*	"							"	
LCS (6D30008-BS1)							Extracted: 04/30/06 19:13							
Gasoline Range Hydrocarbons	NWTPH-Gx/ 8021B	930	---	50.0	ug/l	1x	--	1000	93.0%	(80-120)	--	--	05/01/06 00:04	
Benzene	"	10.9	---	0.500	"	"	--	9.65	113%	"	--	--	"	
Toluene	"	69.4	---	0.500	"	"	--	83.5	83.1%	"	--	--	"	
Ethylbenzene	"	14.4	---	0.500	"	"	--	16.7	86.2%	"	--	--	"	
Xylenes (total)	"	80.4	---	1.00	"	"	--	96.3	83.5%	"	--	--	"	
Surrogate(s): 4-BFB (FID)		*Recovery: 95.8%*			*Limits: 58-144%*	"							*05/01/06 00:04*	
4-BFB (PID)		*94.8%*			*68-140%*	"							"	
LCS Dup (6D30008-BSD1)							Extracted: 04/30/06 19:16							
Gasoline Range Hydrocarbons	NWTPH-Gx/ 8021B	982	---	50.0	ug/l	1x	--	1000	98.2%	(80-120)	5.44%	(25)	05/01/06 00:35	
Benzene	"	11.1	---	0.500	"	"	--	9.65	115%	"	1.82%	"	"	
Toluene	"	71.0	---	0.500	"	"	--	83.5	85.0%	"	2.28%	"	"	
Ethylbenzene	"	14.8	---	0.500	"	"	--	16.7	88.6%	"	2.74%	"	"	
Xylenes (total)	"	82.2	---	1.00	"	"	--	96.3	85.4%	"	2.21%	"	"	
Surrogate(s): 4-BFB (FID)		*Recovery: 96.5%*			*Limits: 58-144%*	"							*05/01/06 00:35*	
4-BFB (PID)		*93.2%*			*68-140%*	"							"	
Duplicate (6D30008-DUP1)							QC Source: BPD0657-23			Extracted: 04/30/06 19:13				
Gasoline Range Hydrocarbons	NWTPH-Gx/ 8021B	5730	---	1000	ug/l	20x	5710	--	--	--	0.350%	(25)	05/01/06 09:17	
Benzene	"	1080	---	10.0	"	"	1110	--	--	--	2.74%	"	"	
Toluene	"	25.6	---	10.0	"	"	27.1	--	--	--	5.69%	"	"	
Ethylbenzene	"	182	---	10.0	"	"	186	--	--	--	2.17%	"	"	
Xylenes (total)	"	268	---	20.0	"	"	276	--	--	--	2.94%	"	"	
Surrogate(s): 4-BFB (FID)		*Recovery: 93.5%*			*Limits: 58-144%*	*1x*							*05/01/06 09:17*	
4-BFB (PID)		*99.7%*			*68-140%*	"							"	

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Amended Report

EA Engineering, Science and Technology
12011 NE 1st Street, Suite 100
Bellevue, WA/USA 98005

Project Name: Tiki Carwash
Project Number: 61994.01
Project Manager: Jill Frain

Report Created: 06/16/06 15:41

Gasoline Hydrocarbons (Benzene to Naphthalene) and BTEX by NWTPH-G and EPA 8021B - Laboratory Quality Control Results

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QC Batch: 6D30008 Water Preparation Method: EPA 5030B (P/T)

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Matrix Spike (6D30008-MS1)				QC Source: BPD0657-23				Extracted: 04/30/06 19:13						
Gasoline Range Hydrocarbons	NWTPH-Gx/ 8021B	25600	---	1000	ug/l	20x	5710	20000	99.4%	(75-131)	--	--	05/01/06 10:19	
Benzene	"	1260	---	10.0	"	"	1110	193	77.7%	(46-130)	--	--	"	
Toluene	"	1530	---	10.0	"	"	27.1	1670	90.0%	(60-124)	--	--	"	
Ethylbenzene	"	494	---	10.0	"	"	186	334	92.2%	(56-141)	--	--	"	
Xylenes (total)	"	1970	---	20.0	"	"	276	1930	87.8%	(66-132)	--	--	"	
Surrogate(s): 4-BFB (FID)		*Recovery: 101%*		*Limits: 58-144%*		*1x*							*05/01/06 10:19*	
4-BFB (PID)		*98.2%*		*68-140%*		"							"	

QC Batch: 6E02043 Water Preparation Method: EPA 5030B (P/T)

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (6E02043-BLK1)								Extracted: 05/02/06 10:45						
Gasoline Range Hydrocarbons	NWTPH-Gx/ 8021B	ND	---	50.0	ug/l	1x	--	--	--	--	--	--	05/02/06 11:00	
Benzene	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Toluene	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Ethylbenzene	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Xylenes (total)	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Surrogate(s): 4-BFB (FID)		*Recovery: 87.3%*		*Limits: 58-144%*		"							*05/02/06 11:00*	
4-BFB (PID)		*100%*		*68-140%*		"							"	
LCS (6E02043-BS1)								Extracted: 05/02/06 10:45						
Gasoline Range Hydrocarbons	NWTPH-Gx/ 8021B	955	---	50.0	ug/l	1x	--	1000	95.5%	(80-120)	--	--	05/02/06 11:30	
Benzene	"	10.8	---	0.500	"	"	--	9.65	112%	"	--	--	"	
Toluene	"	69.2	---	0.500	"	"	--	83.5	82.9%	"	--	--	"	
Ethylbenzene	"	14.8	---	0.500	"	"	--	16.7	88.6%	"	--	--	"	
Xylenes (total)	"	80.3	---	1.00	"	"	--	96.3	83.4%	"	--	--	"	
Surrogate(s): 4-BFB (FID)		*Recovery: 95.2%*		*Limits: 58-144%*		"							*05/02/06 11:30*	
4-BFB (PID)		*93.3%*		*68-140%*		"							"	
LCS Dup (6E02043-BSD1)								Extracted: 05/02/06 10:45						
Gasoline Range Hydrocarbons	NWTPH-Gx/ 8021B	1050	---	50.0	ug/l	1x	--	1000	105%	(80-120)	9.48%	(25)	05/02/06 15:23	
Benzene	"	11.4	---	0.500	"	"	--	9.65	118%	"	5.41%	"	"	
Toluene	"	73.9	---	0.500	"	"	--	83.5	88.5%	"	6.57%	"	"	
Ethylbenzene	"	15.6	---	0.500	"	"	--	16.7	93.4%	"	5.26%	"	"	
Xylenes (total)	"	84.3	---	1.00	"	"	--	96.3	87.5%	"	4.86%	"	"	
Surrogate(s): 4-BFB (FID)		*Recovery: 96.0%*		*Limits: 58-144%*		"							*05/02/06 15:23*	

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Amended Report

EA Engineering, Science and Technology	Project Name:	Tiki Carwash	
12011 NE 1st Street, Suite 100	Project Number:	61994.01	Report Created:
Bellevue, WA/USA 98005	Project Manager:	Jill Frain	06/16/06 15:41

Gasoline Hydrocarbons (Benzene to Naphthalene) and BTEX by NWTPH-G and EPA 8021B - Laboratory Quality Control Results

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QC Batch: 6E02043 **Water Preparation Method: EPA 5030B (P/T)**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
LCS Dup (6E02043-BSD1)								Extracted: 05/02/06 10:45						
Surrogate(s): 4-BFB (PID)		*Recovery: 91.8%*			*Limits: 68-140%*	*1x*							*05/02/06 15:23*	
Duplicate (6E02043-DUP1)					QC Source: BPD0724-03RE1			Extracted: 05/02/06 10:45						
Gasoline Range Hydrocarbons	NWTPH-Gx/ 8021B	355	---	250	ug/l	5x	351	--	--	--	1.13%	(25)	05/03/06 03:21	G-03
Benzene	"	130	---	2.50	"	"	128	--	--	--	1.55%	"	"	
Toluene	"	ND	---	2.50	"	"	ND	--	--	--	NR	"	"	
Ethylbenzene	"	ND	---	2.50	"	"	ND	--	--	--	NR	"	"	
Xylenes (total)	"	ND	---	5.00	"	"	ND	--	--	--	NR	"	"	
Surrogate(s): 4-BFB (FID)		*Recovery: 90.2%*			*Limits: 58-144%*	*1x*							*05/03/06 03:21*	
4-BFB (PID)		*98.7%*			*68-140%*	"							"	
Duplicate (6E02043-DUP2)					QC Source: BPD0724-02			Extracted: 05/02/06 10:45						
Gasoline Range Hydrocarbons	NWTPH-Gx/ 8021B	308	---	50.0	ug/l	1x	322	--	--	--	4.44%	(25)	05/02/06 19:43	
Benzene	"	11.9	---	0.500	"	"	11.9	--	--	--	0.00%	"	"	
Toluene	"	1.78	---	0.500	"	"	1.80	--	--	--	1.12%	"	"	
Ethylbenzene	"	1.74	---	0.500	"	"	1.76	--	--	--	1.14%	"	"	
Xylenes (total)	"	4.23	---	1.00	"	"	4.51	--	--	--	6.41%	"	"	
Surrogate(s): 4-BFB (FID)		*Recovery: 92.7%*			*Limits: 58-144%*	"							*05/02/06 19:43*	
4-BFB (PID)		*98.7%*			*68-140%*	"							"	
Matrix Spike (6E02043-MS1)					QC Source: BPD0724-02			Extracted: 05/02/06 10:45						
Gasoline Range Hydrocarbons	NWTPH-Gx/ 8021B	1360	---	50.0	ug/l	1x	322	1000	104%	(75-131)	--	--	05/02/06 20:14	
Benzene	"	22.3	---	0.500	"	"	11.9	9.65	108%	(46-130)	--	--	"	
Toluene	"	75.7	---	0.500	"	"	1.80	83.5	88.5%	(60-124)	--	--	"	
Ethylbenzene	"	16.8	---	0.500	"	"	1.76	16.7	90.1%	(56-141)	--	--	"	
Xylenes (total)	"	89.1	---	1.00	"	"	4.51	96.3	87.8%	(66-132)	--	--	"	
Surrogate(s): 4-BFB (FID)		*Recovery: 99.0%*			*Limits: 58-144%*	"							*05/02/06 20:14*	
4-BFB (PID)		*92.3%*			*68-140%*	"							"	

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The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Amended Report

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Amended Report

EA Engineering, Science and Technology	Project Name: Tiki Carwash	Report Created:
12011 NE 1st Street, Suite 100	Project Number: 61994.01	06/16/06 15:41
Bellevue, WA/USA 98005	Project Manager: Jill Frain	

Gasoline Hydrocarbons (Benzene to Naphthalene) and BTEX by NWTPH-G and EPA 8021B - Laboratory Quality Control Results

TestAmerica - Seattle, WA

QC Batch: 6E03037 **Soil Preparation Method: EPA 5030B (MeOH)**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (6E03037-BLK1)							Extracted: 05/03/06 09:49							
Gasoline Range Hydrocarbons	NWTPH-Gx/ 8021B	ND	---	5.00	mg/kg wet	1x	--	--	--	--	--	--	05/03/06 10:18	
Xylenes (total)	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Surrogate(s): 4-BFB (FID)		*Recovery: 91.7%*			*Limits: 50-150%*	"							*05/03/06 10:18*	
4-BFB (PID)		*105%*			*53-142%*	"							"	
LCS (6E03037-BS1)							Extracted: 05/03/06 09:49							
Gasoline Range Hydrocarbons	NWTPH-Gx/ 8021B	46.9	---	5.00	mg/kg wet	1x	--	50.0	93.8%	(75-125)	--	--	05/03/06 10:48	
Xylenes (total)	"	4.19	---	0.100	"	"	--	4.92	85.2%	"	--	--	"	
Surrogate(s): 4-BFB (FID)		*Recovery: 105%*			*Limits: 50-150%*	"							*05/03/06 10:48*	
4-BFB (PID)		*104%*			*53-142%*	"							"	
Duplicate (6E03037-DUP1)					QC Source: BPD0657-04RE1		Extracted: 05/03/06 10:49							
Gasoline Range Hydrocarbons	NWTPH-Gx/ 8021B	4190	---	212	mg/kg dry	50x	4440	--	--	--	5.79%	(40)	05/03/06 14:47	
Xylenes (total)	"	217	---	4.24	"	"	231	--	--	--	6.25%	(35)	"	
Surrogate(s): 4-BFB (FID)		*Recovery: 125%*			*Limits: 50-150%*	*1x*							*05/03/06 14:47*	
4-BFB (PID)		*111%*			*53-142%*	"							"	
Matrix Spike (6E03037-MS1)					QC Source: BPD0657-04RE1		Extracted: 05/03/06 10:49							
Gasoline Range Hydrocarbons	NWTPH-Gx/ 8021B	6330	---	212	mg/kg dry	50x	4440	2120	89.2%	(42-125)	--	--	05/03/06 15:17	
Xylenes (total)	"	371	---	4.24	"	"	231	209	67.0%	(59-125)	--	--	"	
Surrogate(s): 4-BFB (FID)		*Recovery: 118%*			*Limits: 50-150%*	*1x*							*05/03/06 15:17*	
4-BFB (PID)		*105%*			*53-142%*	"							"	

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Amended Report

EA Engineering, Science and Technology
12011 NE 1st Street, Suite 100
Bellevue, WA/USA 98005

Project Name: Tiki Carwash
Project Number: 61994.01
Project Manager: Jill Frain

Report Created: 06/16/06 15:41

Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up) - Laboratory Quality Control Results

TestAmerica - Seattle, WA

QC Batch: 6D28028 **Water Preparation Method: EPA 3520C**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (6D28028-BLK1)							Extracted: 04/28/06 11:08							
Diesel Range Hydrocarbons	NWTPH-Dx	ND	---	0.250	mg/l	1x	--	--	--	--	--	--	05/02/06 13:38	
Lube Oil Range Hydrocarbons	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Surrogate(s): 2-FBP		*Recovery: 77.6%*			*Limits: 50-150%*	"							*05/02/06 13:38*	
Octacosane		*84.0%*			*50-150%*	"							"	
LCS (6D28028-BS1)							Extracted: 04/28/06 11:08							
Diesel Range Hydrocarbons	NWTPH-Dx	1.94	---	0.250	mg/l	1x	--	2.00	97.0%	(58-125)	--	--	05/02/06 13:53	
Lube Oil Range Hydrocarbons	"	1.78	---	0.500	"	"	--	"	89.0%	(60-140)	--	--	"	
Surrogate(s): 2-FBP		*Recovery: 84.0%*			*Limits: 50-150%*	"							*05/02/06 13:53*	
Octacosane		*92.0%*			*50-150%*	"							"	
LCS Dup (6D28028-BSD1)							Extracted: 04/28/06 11:08							
Diesel Range Hydrocarbons	NWTPH-Dx	2.05	---	0.250	mg/l	1x	--	2.00	102%	(58-125)	5.51%	(40)	05/02/06 14:23	
Lube Oil Range Hydrocarbons	"	1.99	---	0.500	"	"	--	"	99.5%	(60-140)	11.1%	"	"	
Surrogate(s): 2-FBP		*Recovery: 91.6%*			*Limits: 50-150%*	"							*05/02/06 14:23*	
Octacosane		*102%*			*50-150%*	"							"	

QC Batch: 6E01025 **Soil Preparation Method: EPA 3550B**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (6E01025-BLK1)							Extracted: 05/01/06 09:54							
Diesel Range Hydrocarbons	NWTPH-Dx	ND	---	10.0	mg/kg wet	1x	--	--	--	--	--	--	05/02/06 18:34	
Lube Oil Range Hydrocarbons	"	ND	---	25.0	"	"	--	--	--	--	--	--	"	
Surrogate(s): 2-FBP		*Recovery: 104%*			*Limits: 50-150%*	"							*05/02/06 18:34*	
Octacosane		*90.4%*			*50-150%*	"							"	
LCS (6E01025-BS1)							Extracted: 05/01/06 09:54							
Diesel Range Hydrocarbons	NWTPH-Dx	79.5	---	10.0	mg/kg wet	1x	--	66.7	119%	(71-120)	--	--	05/02/06 19:03	
Lube Oil Range Hydrocarbons	"	70.6	---	25.0	"	"	--	"	106%	(60-140)	--	--	"	
Surrogate(s): 2-FBP		*Recovery: 112%*			*Limits: 50-150%*	"							*05/02/06 19:03*	
Octacosane		*105%*			*50-150%*	"							"	
Duplicate (6E01025-DUP1)					QC Source: BPD0657-19RE1		Extracted: 05/01/06 09:54							
Diesel Range Hydrocarbons	NWTPH-Dx	682	---	57.5	mg/kg dry	5x	617	--	--	--	10.0%	(40)	05/04/06 09:00	
Lube Oil Range Hydrocarbons	"	ND	---	144	"	"	ND	--	--	--	NR	"	"	
Surrogate(s): 2-FBP		*Recovery: 128%*			*Limits: 50-150%*	"							*05/04/06 09:00*	
Octacosane		*78.4%*			*50-150%*	"							"	

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Amended Report

EA Engineering, Science and Technology	Project Name: Tiki Carwash	Report Created:
12011 NE 1st Street, Suite 100	Project Number: 61994.01	06/16/06 15:41
Bellevue, WA/USA 98005	Project Manager: Jill Frain	

Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up) - Laboratory Quality Control Results

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QC Batch: 6E01025 **Soil Preparation Method: EPA 3550B**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Duplicate (6E01025-DUP2)					QC Source: BPD0667-02			Extracted: 05/01/06 09:54						
Diesel Range Hydrocarbons	NWTPH-Dx	64.3	---	10.9	mg/kg dry	1x	57.6	--	--	--	11.0%	(40)	05/02/06 20.02	
Lube Oil Range Hydrocarbons	"	97.3	---	27.1	"	"	66.1	--	--	--	38.2%	"	"	
Surrogate(s): 2-FBP		*Recovery:*	*108%*		*Limits: 50-150%*	"							*05/02/06 20.02*	
Octacosane			*104%*		*50-150%*	"							"	
Matrix Spike (6E01025-MS1)					QC Source: BPD0657-19RE1			Extracted: 05/01/06 09:54						
Diesel Range Hydrocarbons	NWTPH-Dx	703	---	57.5	mg/kg dry	5x	617	76.7	112%	(45-144)	--	--	05/04/06 09:29	MS-2
Lube Oil Range Hydrocarbons	"	34.9	---	144	"	"	ND	"	45.5%	(50-150)	--	--	"	
Surrogate(s): 2-FBP		*Recovery:*	*132%*		*Limits: 50-150%*	"							*05/04/06 09:29*	
Octacosane			*86.8%*		*50-150%*	"							"	

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Amended Report

EA Engineering, Science and Technology	Project Name:	**Tiki Carwash**	Report Created:
12011 NE 1st Street, Suite 100	Project Number:	61994.01	06/16/06 15:41
Bellevue, WA/USA 98005	Project Manager:	Jill Frain	

Volatile Organic Compounds by EPA Method 8260B - Laboratory Quality Control Results

TestAmerica - Seattle, WA

QC Batch: 6D28059 **Water Preparation Method: EPA 5030B**

Analyte	Method	Result	MDL[A]	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (6D28059-BLK1)							Extracted: 04/28/06 14:30							
Acetone	EPA 8260B	ND	---	10.0	ug/l	1x	--	--	--	--	--	--	04/28/06 17:57	
Benzene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
Bromobenzene	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Bromochloromethane	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
Bromodichloromethane	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
Bromoform	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
Bromomethane	"	ND	---	2.00	"	"	--	--	--	--	--	--	"	
2-Butanone	"	ND	---	2.00	"	"	--	--	--	--	--	--	"	
n-Butylbenzene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
sec-Butylbenzene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
tert-Butylbenzene	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Carbon disulfide	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Carbon tetrachloride	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
Chlorobenzene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
Chloroethane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Chloroform	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
Chloromethane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
2-Chlorotoluene	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
4-Chlorotoluene	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Dibromochloromethane	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
1,2-Dibromo-3-chloropropane	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
1,2-Dibromoethane	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
Dibromomethane	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
1,2-Dichlorobenzene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
1,3-Dichlorobenzene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
1,4-Dichlorobenzene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	Q-40
Dichlorodifluoromethane	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
1,1-Dichloroethane	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
1,2-Dichloroethane	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
1,1-Dichloroethene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
cis-1,2-Dichloroethene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
trans-1,2-Dichloroethene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
1,2-Dichloropropane	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
1,3-Dichloropropane	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
2,2-Dichloropropane	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
1,1-Dichloropropene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
cis-1,3-Dichloropropene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
trans-1,3-Dichloropropene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
Ethylbenzene														

TestAmerica - Seattle, WA

Amended Report

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TestAmerica
ANALYTICAL TESTING CORPORATION

SEATTLE, WA 11720 NORTH CREEK PKWY N, SUITE 400
BOTHELL, WA 98011-8244
PH: (425) 420.9200 FAX: (425) 420.9210

Amended Report

EA Engineering, Science and Technology
12011 NE 1st Street, Suite 100
Bellevue, WA/USA 98005

Project Name: Tiki Carwash
Project Number: 61994.01
Project Manager: Jill Frain

Report Created: 06/16/06 15:41

Volatile Organic Compounds by EPA Method 8260B - Laboratory Quality Control Results

TestAmerica - Seattle, WA

QC Batch: 6D28059 **Water Preparation Method: EPA 5030B**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
							Extracted: 04/28/06 14:30							
Blank (6D28059-BLK1)													04/28/06 17:57	
Hexachlorobutadiene	EPA 8260B	ND	---	0.500	ug/l	1x	--	--	--	--	--	--	"	
Methyl tert-butyl ether	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
n-Hexane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
2-Hexanone	"	ND	---	2.00	"	"	--	--	--	--	--	--	"	
Isopropylbenzene	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
p-Isopropyltoluene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
4-Methyl-2-pentanone	"	ND	---	2.00	"	"	--	--	--	--	--	--	"	
Methylene chloride	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Naphthalene	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
n-Propylbenzene	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Styrene	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
1,2,3-Trichlorobenzene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
1,2,4-Trichlorobenzene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
1,1,1,2-Tetrachloroethane	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
1,1,2,2-Tetrachloroethane	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Tetrachloroethene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
Toluene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
1,1,1-Trichloroethane	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
1,1,2-Trichloroethane	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
Trichloroethene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
Trichlorofluoromethane	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
1,2,3-Trichloropropane	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
1,2,4-Trimethylbenzene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
1,3,5-Trimethylbenzene	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Vinyl chloride	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
o-Xylene	"	ND	---	0.250	"	"	--	--	--	--	--	--	"	
m,p-Xylene	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
													04/28/06 17:57	
Surrogate(s): 1,2-DCA-d4		*Recovery: 98.0%*				*Limits: 70-130%*	"						"	
Toluene-d8		*98.0%*				*70-130%*	"						"	
4-BFB		*101%*				*70-130%*	"							

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BOTHELL, WA 98011-8244
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Amended Report

EA Engineering, Science and Technology	Project Name:	Tiki Carwash	Report Created:
12011 NE 1st Street, Suite 100	Project Number:	61994.01	06/16/06 15:41
Bellevue, WA/USA 98005	Project Manager:	Jill Frain	

Volatile Organic Compounds by EPA Method 8260B - Laboratory Quality Control Results

TestAmerica - Seattle, WA

QC Batch: 6D28059 **Water Preparation Method: EPA 5030B**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
LCS (6D28059-BS1)								Extracted: 04/28/06 14:30						
Benzene	EPA 8260B	43.0	---	0.200	ug/l	1x	--	40.0	108%	(80-120)	--	--	04/28/06 16:05	
Chlorobenzene	"	42.4	---	0.200	"	"	--	"	106%	(77-120)	--	--	"	
1,1-Dichloroethene	"	44.5	---	0.200	"	"	--	"	111%	(80-120)	--	--	"	
Methyl tert-butyl ether	"	44.5	---	1.00	"	"	--	"	111%	"	--	--	"	
Toluene	"	44.4	---	0.200	"	"	--	"	111%	"	--	--	"	
Trichloroethene	"	44.1	---	0.200	"	"	--	"	110%	"	--	--	"	
Surrogate(s): 1,2-DCA-d4		*Recovery: 92.2%*			*Limits: 70-130%*	"							*04/28/06 16:05*	
Toluene-d8		*99.8%*			*70-130%*	"							"	
4-BFB		*102%*			*70-130%*	"							"	
LCS Dup (6D28059-BSD1)								Extracted: 04/28/06 14:30						
Benzene	EPA 8260B	40.8	---	0.200	ug/l	1x	--	40.0	102%	(80-120)	5.25%	(20)	04/28/06 16:32	
Chlorobenzene	"	40.5	---	0.200	"	"	--	"	101%	(77-120)	4.58%	"	"	
1,1-Dichloroethene	"	41.3	---	0.200	"	"	--	"	103%	(80-120)	7.46%	"	"	
Methyl tert-butyl ether	"	44.0	---	1.00	"	"	--	"	110%	"	1.13%	"	"	
Toluene	"	42.5	---	0.200	"	"	--	"	106%	"	4.37%	"	"	
Trichloroethene	"	42.0	---	0.200	"	"	--	"	105%	"	4.88%	"	"	
Surrogate(s): 1,2-DCA-d4		*Recovery: 89.8%*			*Limits: 70-130%*	"							*04/28/06 16:32*	
Toluene-d8		*100%*			*70-130%*	"							"	
4-BFB		*103%*			*70-130%*	"							"	

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Amended Report

EA Engineering, Science and Technology
12011 NE 1st Street, Suite 100
Bellevue, WA/USA 98005

Project Name: Tiki Carwash
Project Number: 61994.01
Project Manager: Jill Frain

Report Created: 06/16/06 15:41

Volatile Organic Compounds by EPA Method 8260B - Laboratory Quality Control Results

TestAmerica - Seattle, WA

QC Batch: 6E02035 Water Preparation Method: EPA 5030B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (6E02035-BLK1)							Extracted: 05/02/06 09:36							
Acetone	EPA 8260B	ND	---	10.0	ug/l	1x	--	--	--	--	--	--	05/02/06 12:12	
Benzene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
Bromobenzene	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Bromochloromethane	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
Bromodichloromethane	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
Bromoform	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
Bromomethane	"	ND	---	2.00	"	"	--	--	--	--	--	--	"	
2-Butanone	"	ND	---	2.00	"	"	--	--	--	--	--	--	"	
n-Butylbenzene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
sec-Butylbenzene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
tert-Butylbenzene	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Carbon disulfide	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Carbon tetrachloride	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
Chlorobenzene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
Chloroethane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Chloroform	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
Chloromethane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
2-Chlorotoluene	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
4-Chlorotoluene	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Dibromochloromethane	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
1,2-Dibromo-3-chloropropane	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
1,2-Dibromoethane	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
Dibromomethane	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
1,2-Dichlorobenzene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
1,3-Dichlorobenzene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
1,4-Dichlorobenzene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
Dichlorodifluoromethane	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
1,1-Dichloroethane	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
1,2-Dichloroethane	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
1,1-Dichloroethene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
cis-1,2-Dichloroethene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
trans-1,2-Dichloroethene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
1,2-Dichloropropane	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
1,3-Dichloropropane	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
2,2-Dichloropropane	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
1,1-Dichloropropene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
cis-1,3-Dichloropropene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
trans-1,3-Dichloropropene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
Ethylbenzene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	

TestAmerica - Seattle, WA

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Amended Report

EA Engineering, Science and Technology
12011 NE 1st Street, Suite 100
Bellevue, WA/USA 98005

Project Name: Tiki Carwash
Project Number: 61994.01
Project Manager: Jill Frain

Report Created: 06/16/06 15:41

Volatile Organic Compounds by EPA Method 8260B - Laboratory Quality Control Results
TestAmerica - Seattle, WA

QC Batch: 6E02035 Water Preparation Method: EPA 5030B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
							Extracted: 05/02/06 09:36							
Blank (6E02035-BLK1)													05/02/06 12:12	
Hexachlorobutadiene	EPA 8260B	ND	---	0.500	ug/l	1x	--	--	--	--	--	--	"	
Methyl tert-butyl ether	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
n-Hexane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
2-Hexanone	"	ND	---	2.00	"	"	--	--	--	--	--	--	"	
Isopropylbenzene	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
p-Isopropyltoluene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
4-Methyl-2-pentanone	"	ND	---	2.00	"	"	--	--	--	--	--	--	"	
Methylene chloride	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Naphthalene	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
n-Propylbenzene	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Styrene	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
1,2,3-Trichlorobenzene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
1,2,4-Trichlorobenzene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
1,1,1,2-Tetrachloroethane	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
1,1,2,2-Tetrachloroethane	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Tetrachloroethene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
Toluene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
1,1,1-Trichloroethane	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
1,1,2-Trichloroethane	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
Trichloroethene	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Trichlorofluoromethane	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
1,2,3-Trichloropropane	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
1,2,4-Trimethylbenzene	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
1,3,5-Trimethylbenzene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
Vinyl chloride	"	ND	---	0.250	"	"	--	--	--	--	--	--	"	
o-Xylene	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
m,p-Xylene													05/02/06 12:12	
Surrogate(s): 1,2-DCA-d4		*Recovery: 88.8%*			*Limits: 70-130%*	"							"	
Toluene-d8		*97.5%*			*70-130%*	"							"	
4-BFB		*103%*			*70-130%*	"								

TestAmerica - Seattle, WA

Amended Report

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PH: (425) 420.9200 FAX: (425) 420.9210

Amended Report

EA Engineering, Science and Technology
12011 NE 1st Street, Suite 100
Bellevue, WA/USA 98005

Project Name: Tiki Carwash
Project Number: 61994.01
Project Manager: Jill Frain

Report Created: 06/16/06 15:41

Volatile Organic Compounds by EPA Method 8260B - Laboratory Quality Control Results

TestAmerica - Seattle, WA

QC Batch: 6E02035 Water Preparation Method: EPA 5030B

Analyte	Method	Result	MDL[A]	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
LCS (6E02035-BS1)								Extracted: 05/02/06 09:36						
Benzene	EPA 8260B	41.1	---	0.200	ug/l	1x	--	40.0	103%	(80-120)	--	--	05/02/06 10:27	
Chlorobenzene	"	39.2	---	0.200	"	"	--	"	98.0%	(77-120)	--	--	"	
1,1-Dichloroethene	"	40.8	---	0.200	"	"	--	"	102%	(80-120)	--	--	"	
Methyl tert-butyl ether	"	42.6	---	1.00	"	"	--	"	106%	"	--	--	"	
Toluene	"	41.4	---	0.200	"	"	--	"	104%	"	--	--	"	
Trichloroethene	"	40.4	---	0.200	"	"	--	"	101%	"	--	--	"	
Surrogate(s): 1,2-DCA-d4		*Recovery: 84.8%*			*Limits: 70-130%*	"							*05/02/06 10:27*	
Toluene-d8		*99.0%*			*70-130%*	"							"	
4-BFB		*102%*			*70-130%*	"							"	
LCS Dup (6E02035-BSD1)								Extracted: 05/02/06 09:36						
Benzene	EPA 8260B	38.9	---	0.200	ug/l	1x	--	40.0	97.2%	(80-120)	5.50%	(20)	05/02/06 10:57	
Chlorobenzene	"	37.5	---	0.200	"	"	--	"	93.8%	(77-120)	4.43%	"	"	
1,1-Dichloroethene	"	38.0	---	0.200	"	"	--	"	95.0%	(80-120)	7.11%	"	"	
Methyl tert-butyl ether	"	40.8	---	1.00	"	"	--	"	102%	"	4.32%	"	"	
Toluene	"	39.6	---	0.200	"	"	--	"	99.0%	"	4.44%	"	"	
Trichloroethene	"	38.5	---	0.200	"	"	--	"	96.2%	"	4.82%	"	"	
Surrogate(s): 1,2-DCA-d4		*Recovery: 82.8%*			*Limits: 70-130%*	"							*05/02/06 10:57*	
Toluene-d8		*99.0%*			*70-130%*	"							"	
4-BFB		*102%*			*70-130%*	"							"	

TestAmerica - Seattle, WA

Amended Report

Kortland Orr, PM

TestAmerica
ANALYTICAL TESTING CORPORATION

SEATTLE, WA 11720 NORTH CREEK PKWY N, SUITE 400
BOTHELL, WA 98011-8244
PH: (425) 420.9200 FAX: (425) 420.9210

Amended Report

EA Engineering, Science and Technology	Project Name:	Tiki Carwash	
12011 NE 1st Street, Suite 100	Project Number:	61994.01	Report Created:
Bellevue, WA/USA 98005	Project Manager:	Jill Frain	06/16/06 15:41

Physical Parameters by APHA/ASTM/EPA Methods - Laboratory Quality Control Results

TestAmerica - Seattle, WA

QC Batch: 6E02049 **Soil Preparation Method: Dry Weight**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (6E02049-BLK1)													Extracted: 05/02/06 14:14	
Dry Weight	BSOPSPL00 3R08	100	---	1.00	%	1x	--	--	--	--	--	--	05/03/06 00:00	

TestAmerica
ANALYTICAL TESTING CORPORATION

SEATTLE, WA 11720 NORTH CREEK PKWY N, SUITE 400
BOTHELL, WA 98011-8244
PH: (425) 420.9200 FAX: (425) 420.9210

Amended Report

EA Engineering, Science and Technology	Project Name:	**Tiki Carwash**	
12011 NE 1st Street, Suite 100	Project Number:	61994.01	Report Created:
Bellevue, WA/USA 98005	Project Manager:	Jill Frain	06/16/06 15:41

Notes and Definitions

Report Specific Notes:

A-01	-	Sample vial had head space.
D-08	-	Results in the diesel organics range are primarily due to overlap from a gasoline range product.
D-09	-	Results in the diesel organics range are primarily due to overlap from a heavy oil range product.
E-01	-	Estimated value. The reported value exceeds the capacity of the detector and therefore is unreliable.
G-03	-	The total hydrocarbon result in this sample is primarily due to an individual compound eluting in the volatile hydrocarbon range. Identification and quantitation by EPA method 8021B or 8260B is recommended.
I-06	-	The analyte concentration may be artificially elevated due to coeluting compounds or components.
MS-2	-	The Matrix Spike and/or Matrix Spike Duplicate were below the acceptance limits due to sample matrix interference. See Laboratory Control Sample.
Q-40	-	This analyte had a low bias in the associated calibration verification standard.
RP-4	-	Due to the low levels of analyte in the sample, the duplicate RPD calculation does not provide useful information.
S-01	-	The surrogate recovery for this sample is not available due to sample dilution required from high analyte concentration and/or matrix interferences.
SR-4	-	Due to sample matrix effects, the surrogate recovery was outside laboratory control limits.

Laboratory Reporting Conventions:

DET	-	Analyte DETECTED at or above the Reporting Limit. Qualitative Analyses only.
ND	-	Analyte NOT DETECTED at or above the reporting limit (MDL or MRL, as appropriate).
NR/NA	-	Not Reported / Not Available
dry	-	Sample results reported on a Dry Weight Basis. Results and Reporting Limits have been corrected for Percent Dry Weight.
wet	-	Sample results and reporting limits reported on a Wet Weight Basis (as received). Results with neither 'wet' nor 'dry' are reported on a Wet Weight Basis.
RPD	-	RELATIVE PERCENT DIFFERENCE (RPDs calculated using Results, not Percent Recoveries).
MRL	-	METHOD REPORTING LIMIT. Reporting Level at, or above, the lowest level standard of the Calibration Table.
MDL*	-	METHOD DETECTION LIMIT. Reporting Level at, or above, the statistically derived limit based on 40CFR, Part 136, Appendix B. *MDLs are listed on the report only if the data has been evaluated below the MRL. Results between the MDL and MRL are reported as Estimated Results.
Dil	-	Dilutions are calculated based on deviations from the standard dilution performed for an analysis, and may not represent the dilution found on the analytical raw data.
Reporting Limits	-	Reporting limits (MDLs and MRLs) are adjusted based on variations in sample preparation amounts, analytical dilutions and percent solids, where applicable.
Electronic Signature	-	Electronic Signature added in accordance with TestAmerica's *Electronic Reporting and Electronic Signatures Policy.* Application of electronic signature indicates that the report has been reviewed and approved for release by the laboratory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

11720 North Creek Pkwy N Suite 400, Bothell, WA 98011-8244 425-420-9200 20-9210
11922 E 1st Ave, Spokane, WA 99206-5302 509-924-9200 FAX 924-9290
9405 SW Nimbus Ave, Beaverton, OR 97008-7145 503-906-9200 FAX 906-9210
20332 Empire Ave, Ste F1, Bend, OR 97701-5712 541-383-9310 FAX 382-7588
2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119 907-563-9200 FAX 563-9210

CHAIN OF CUSTODY REPORT

Work Order #: BPD0657

NCA CLIENT: EA Engineering
REPORT TO: Jil Frain
ADDRESS: 12011 NE 1st Suite 100 Bellevue, WA 98005
PHONE: 425 451 7400 FAX: 425 451 7800

INVOICE TO: Roger Nye
WA Department of Ecology NWRO, 3190 160th Ave SE Bellevue, WA 98008
P.O. NUMBER: Field Order # PF3131

PROJECT NAME: Tiki Car Wash
PROJECT NUMBER: 61994.01 5000
SAMPLED BY: MBB

TURNAROUND REQUEST
In Business Days *
Organic & Inorganic Analyses: 7 5 4 3 2 1 <1
Petroleum Hydrocarbon Analyses: 4 3 2 1 <1
OTHER Specify:
* Turnaround Requests less than standard may incur Rush Charges.

	CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	NWTPH-Dx	NWTPH-BTEX	8260	NWTPH-BTEX	NWTPH-HCID	MATRIX (W, S, O)	# OF CONT.	LOCATION / COMMENTS	NCA WO ID
	PRESERVATIVE		—	Meoh			HCL HCL HCL				
1	TK-GP1-SS-7	4/24/06 0850	X	X				S	2		01
2	TK-GP1-GW-14	4/24/06 0910			X	X	X	W	5		02
3	TK-GP2-SS-8	4/24/06 1048	X	X				S	2		03
4	TK-GP3-SS-7	4/24/06 1125	X	X				S	2		04
5	TK-GP3-GW-10	4/24/06 1130				X	X	W	5		05
6	~~TK-GP4-SS-4~~ MBB 4/25/06	~~1315~~								Disposed sample.	
7	TK-GP4-SS-7	4/24/06 1330	X	X				S	2		06
8	TK-GP4-GW-13	4/24/06 1345				X	X	W	4		07
9	TK-GP5-SS-4	4/24/06 1450	X	X				S	2		08
10	TK-GP5-GW-12	4/24/06 1510				X	X	W	5		09

RELEASED BY: Mark Blinstrub DATE: 4/26/06
PRINT NAME: Mark Blinstrub FIRM: EA Eng. TIME: 0845

RECEIVED BY: Tom Blankinship DATE: 4/26/06
PRINT NAME: Blankinship FIRM: NCA TIME: 1050

RELEASED BY: DATE:
PRINT NAME: FIRM: TIME:

RECEIVED BY: DATE:
PRINT NAME: FIRM: TIME:

ADDITIONAL REMARKS: Temp Blank Included. Bill WA Dept of Ecology at above address @lab 1705

TEMP: 3.2 WCS

COC REV: 09/04

11720 North Creek Pkwy N Suite 400, Bothell, WA 98011-8244 425-420-9200 FAX 420-9210
11922 E 1st Ave, Spokane, WA 99206-5302 509-924-9200 FAX 924-9290
9405 SW Nimbus Ave, Beaverton, OR 97008-7145 503-906-9200 FAX 906-9210
20332 Empire Ave, Ste F1, Bend, OR 97701-5712 541-383-9310 FAX 382-7588
2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119 907-563-9200 FAX 563-9210

CHAIN OF CUSTODY REPORT

Work Order #: BPD0657

NCA CLIENT: EA Engineering
REPORT TO: Jil Frain
ADDRESS: 12011 NE 1st St Suite 100 ~~Bellevue Redmond Road~~ Bellevue, WA 98005
PHONE: 425 451 7400 FAX: 425 451 7800

INVOICE TO: Roger Nye
WA Department of Ecology
NWRO, 3190 160th Ave SE
Bellevue, WA 98008
P.O. NUMBER: Field Order # PF 313180

PROJECT NAME: Tiki Car Wash
PROJECT NUMBER: 61994.01 5000
SAMPLED BY: MBB

TURNAROUND REQUEST
In Business Days *
Organic & Inorganic Analyses: ~~STD.~~ 7 5 4 3 2 1 <1
Petroleum Hydrocarbon Analyses: ~~STD.~~ 4 3 2 1 <1
OTHER Specify:
* Turnaround Requests less than standard may incur Rush Charges.

PRESERVATIVE: Soil — MeOH; Water HCl HCl

REQUESTED ANALYSES: NWTPH-DX; NWTPH-G BTEX; NWTPH-G BTEX; NWTPH-DX

#	CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	NWTPH-DX	NWTPH-G BTEX	NWTPH-G BTEX	NWTPH-DX	MATRIX (W, S, O)	# OF CONT.	LOCATION / COMMENTS	NCA WO ID
							S	2		10
1	TK-GP6-SS-5	4/24/06 1630	X	X						
					X	X	W	~~4~~ 5	limited DX sample volume.	11
2	TK-GP6-GW-7	4/24/06 1650					S	2		12
3	TK-GP7-SS-7	4/25/06 0835	X	X			S	2		13
4	TK-GP7-SS-7D	0845	X	X						
					X	X	W	5		14
5	TK-GP7-GW-15	0950			X	X	W	5		15
6	TK-GP7-GW-15D	0910					S	2		16
7	TK-GP8-SS-10	1010	X	X						
					X	X	W	5		17
8	TK-GP8-GW-14	1030			X		W	2		18
9	TK-GP-TB	4/24/06 —					S	2		19
10	TK-GP9-SS-4	4/25/06 1125	X	X						

RELEASED BY: Mark Blumstein — DATE: 4/26/06
PRINT NAME: Mark Blumstein FIRM: EA Eng. — TIME: 0845
RECEIVED BY: Tom Hanf — DATE: 4/26/06
PRINT NAME: — FIRM: — TIME: 1050

RELEASED BY: — DATE:
PRINT NAME: — FIRM: — TIME:
RECEIVED BY: — DATE:
PRINT NAME: — FIRM: — TIME:

ADDITIONAL REMARKS: @lab1705
TEMP: 3.2 w/cs

COC REV 09/04

11720 North Creek Pkwy N Suite 400, Bothell, WA 98011-8244 425-420-9200 FAX 420-9210
11922 E 1st Ave, Spokane, WA 99206-5302 509-924-9200 FAX 924-9290
9405 SW Nimbus Ave, Beaverton, OR 97008-7145 503-906-9200 FAX 906-9210
20332 Empire Ave, Ste F1, Bend, OR 97701-5712 541-383-9310 FAX 382-7588
2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119 907-563-9200 FAX 563-9210

CHAIN OF CUSTODY REPORT

Work Order #: BPD0657

NCA CLIENT: EA Engineering
REPORT TO: Jil Frain
ADDRESS: 12011 NE 1st St Ste 100, Bellevue, WA 98005
PHONE: 425 451 7400 FAX: 425 451 7800
PROJECT NAME: Tiki Car Wash
PROJECT NUMBER: 61494.01 5000
SAMPLED BY: MBB

INVOICE TO: Roger Nye
WA Department of Ecology
NWRO, 3190 160th Ave SE
Bellevue WA 98008
P.O. NUMBER: Field Order # PE313180

TURNAROUND REQUEST in Business Days *
Organic & Inorganic Analyses: [X] Std. 7 5 4 3 2 1 <1
Petroleum Hydrocarbon Analyses: [X] Std. 4 3 2 1 <1
OTHER Specify:
* Turnaround Requests less than standard may incur Rush Charges.

PRESERVATIVE: ← Soil → — | MeOH ; ← GW → HCL | HCL

REQUESTED ANALYSES

#	CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME		NWTPH-Dx (Soil)	NWTPH-G BTEX (Soil)	NWTPH-G BTEX (GW)	NWTPH-Dx (GW)	MATRIX (W, S, O)	# OF CONT.	LOCATION / COMMENTS	NCA WO ID
1	TK-GP9-SS-8	4/25/06	1140	X	X			S	2	High conc.	20
2	TK-GP9-GW-8	↓	1200			X	X	W		sheen present	21
3	TK-GP10-SS-7	↓	1330	X	X			S	2		22
4	TK-GP10-GW-10	↓	1345			X	X	W	5		23
5	TK-GP11-SS-3	↓	1441	X	X			S	2		24
6	TK-GP12-SS-8	↓	1540	X	X			S	2		25
7	TK-GP12-SS-8D	↓	1545	X	X			S	2		26
8	TK-GP12-GW-12	↓	1555			X	X	W	4	limited Dx sample volume.	27
9											
10											

RELEASED BY: Mark Blinstrub DATE: 4/26/06
PRINT NAME: Mark Blinstrub FIRM: EA Eng. TIME: 0845
RECEIVED BY: Tom [signature] DATE: 4/26/06
PRINT NAME: FIRM: TIME: 1050

RELEASED BY: DATE:
PRINT NAME: FIRM: TIME:
RECEIVED BY: DATE:
PRINT NAME: FIRM: TIME:

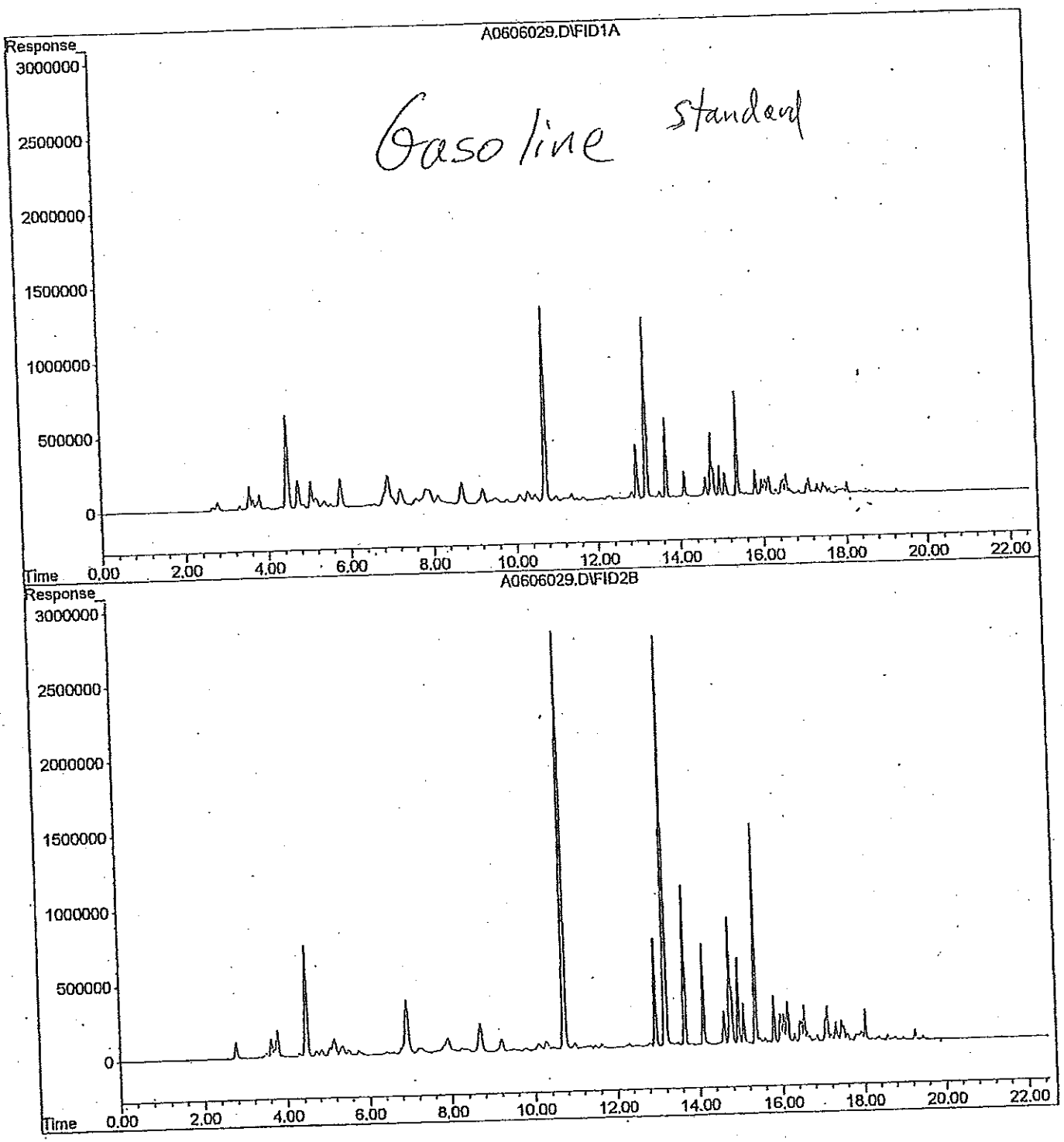
ADDITIONAL REMARKS: Temp blanks included.
@lab 1705
TEMP: 3.2 w/cs
PAGE 3 OF 3

COC REV 09/04

ATTACHMENT C

CHROMATOGRAMS

File : D:\HPCHEM\1\DATA\010606\A0606029.D
Operator : sks
Acquired : 7 Jan 2006 10:27 using AcqMethod TGL1505.M
Instrument : GC-10
Sample Name: 6a06031-cale
Misc Info : 1x 5000 ng/ml 5120370
Vial Number: 29



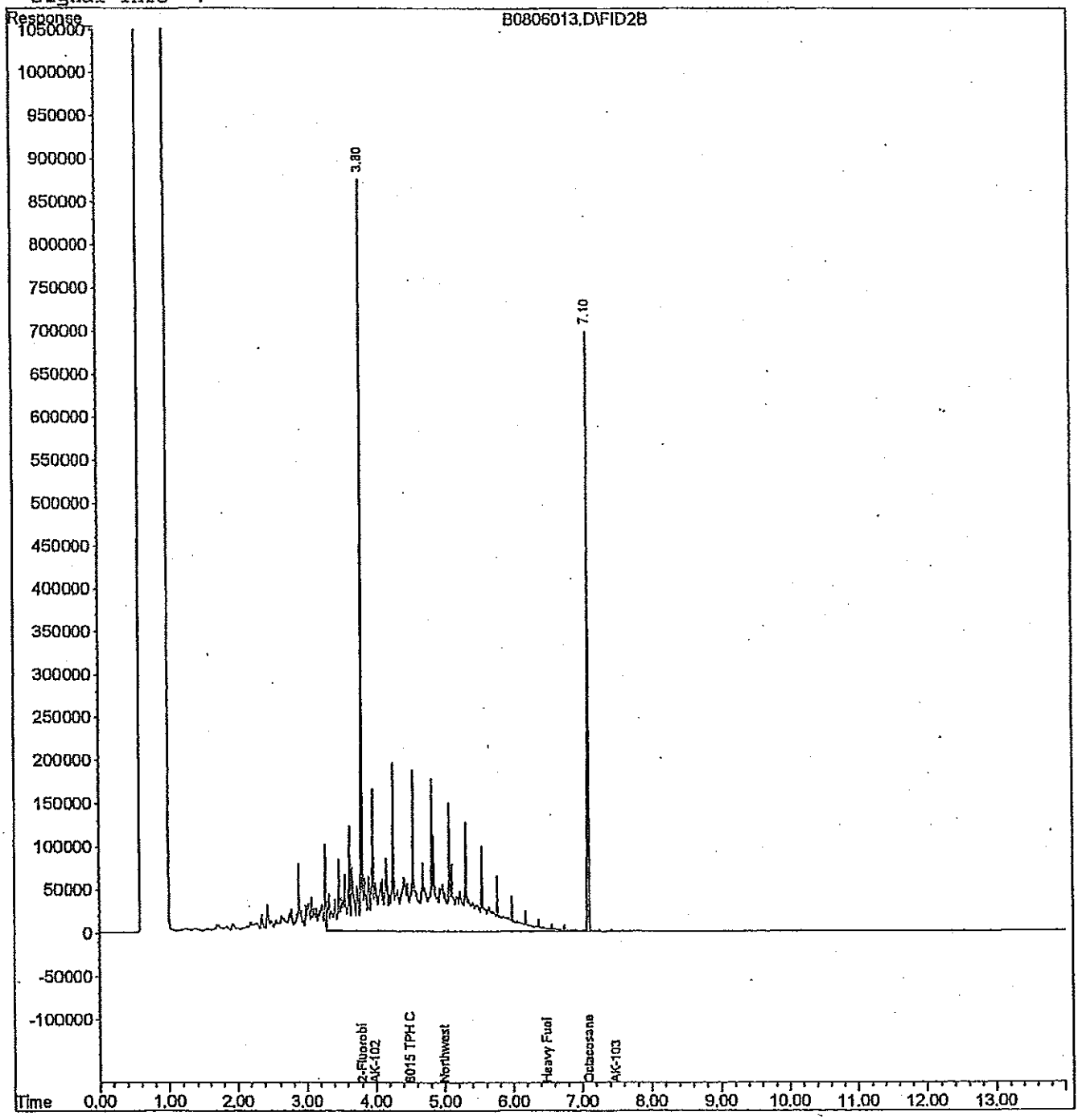
Quantitation Report

Data File : C:\HPCHEM\1\DATA\020806.SEC\B0806013.D Vial: 59
Acq On : 8 Feb 2006 13:04 Operator: tmk
Sample : 6b08011-ccv3 Inst : GC-7
Misc : 1x 6010164 d 250/2500 Multiplr: 1.00
IntFile : SURR.E
Quant Time: Feb 8 13:06 2006 Quant Results File: TRA3106.RES

Quant Method : D:\HPCHEM\2\METHODS\TRA3106.M (Chemstation Integrator)
Title : GC#7 TPH-Dx Rear Column
Last Update : Tue Jan 31 15:39:32 2006
Response via : Multiple Level Calibration
DataAcq Meth : TFA3106.M

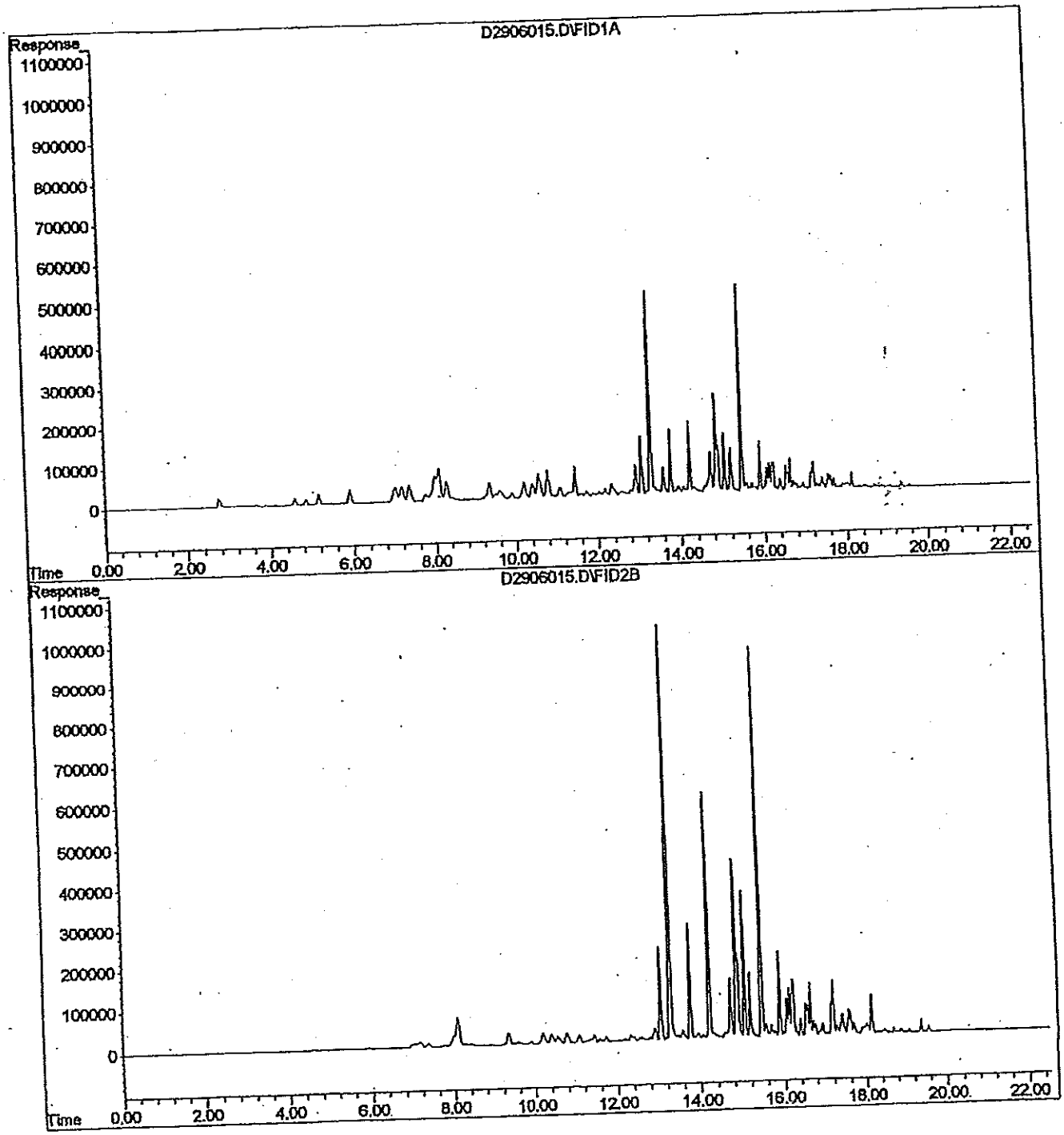
Diesel Standard

Volume Inj. :
Signal Phase :
Signal Info :



GF-1
Soil - GRO

File : D:\HPCHEM\3\DATA\042906\D2906015.D
Operator : sks
Acquired : 30 Apr 2006 00:16 using AcqMethod TGC1506.M
Instrument : GC #6
Sample Name: bpd0657-01
Misc Info : 20x 5 uL
Vial Number: 15



GPI

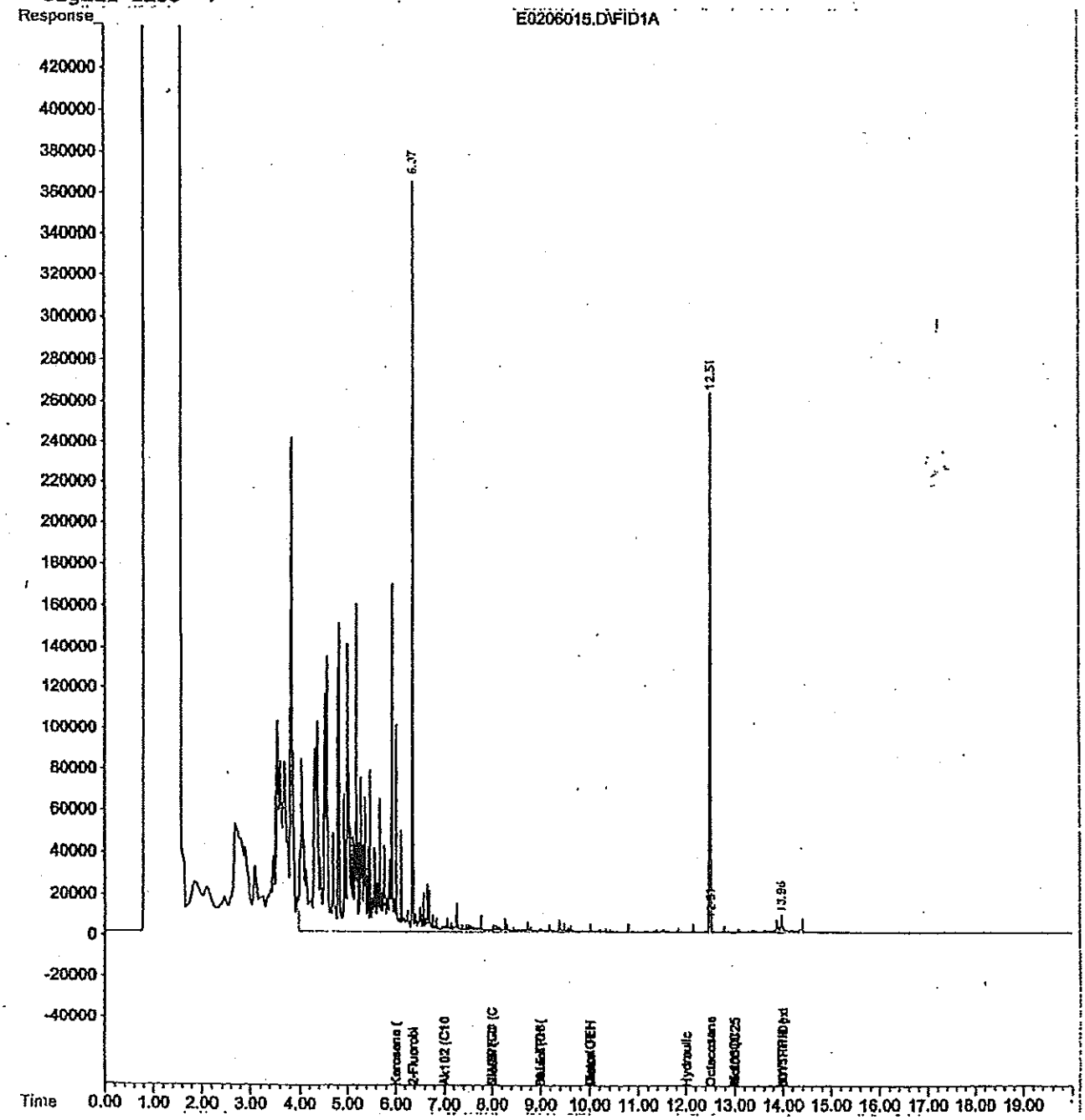
Soil - PRO

Quantitation Report

Data File : C:\HPCHEM\4\DATA\050206\E0206015.D Vial: 8
Acq On : 2 May 2006 22:28 Operator: gsm
Sample : bpd0657-01 Inst : GC-1
Misc : 1x nwtph-dx soil Multiplr: 1.00
IntFile : TPH.E
Quant Time: May 3 9:42 2006 Quant Results File: RFD1506B.RES

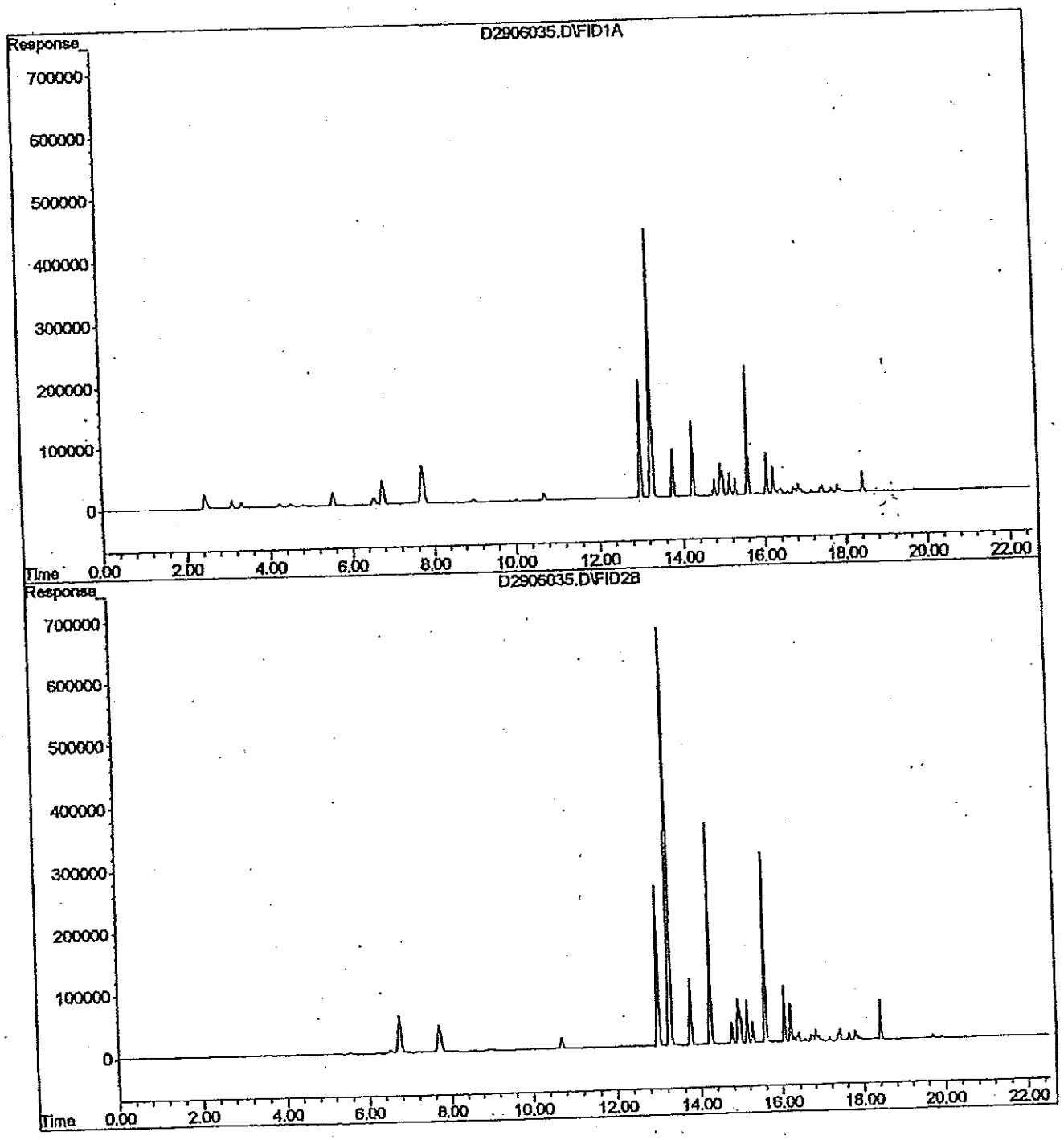
Quant Method : C:\HPCHEM\4\METHODS\RFD1506B.M (Chemstation Integrator)
Title : TPH-D Rear Method
Last Update : Tue May 02 11:20:49 2006
Response via : Multiple Level Calibration
DataAcq Meth : TPHF.M

Volume Inj. :
Signal Phase :
Signal Info :



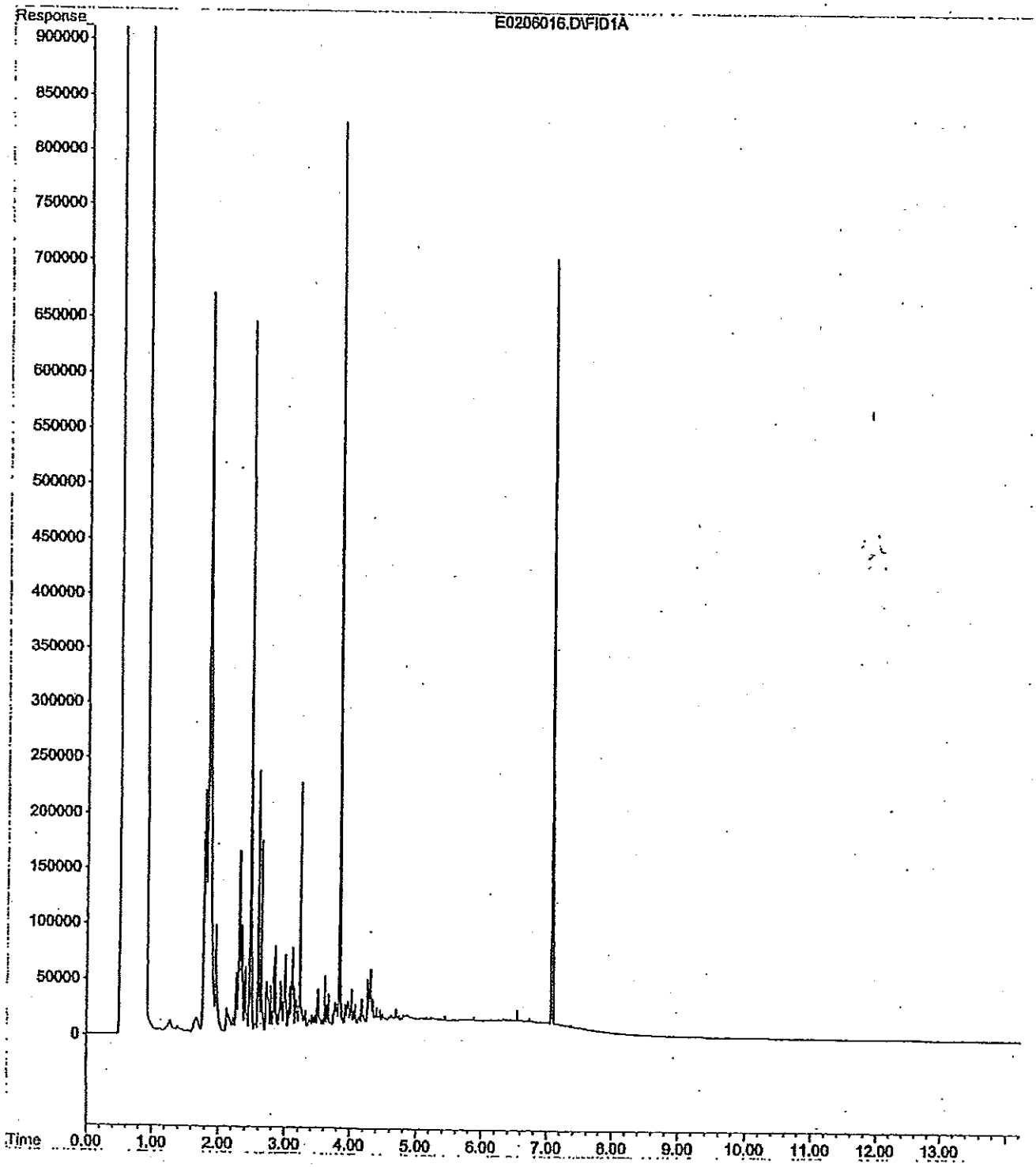
6R-1
GW-GRO

File : D:\HPCHEM\4\DATA\042906\D2906035.D
Operator : sks
Acquired : 30 Apr 2006 11:15 using AcqMethod TGC1806.M
Instrument : GC #8
Sample Name: bpd0657-02re1
Misc Info : 10x 500 uL
Vial Number: 35



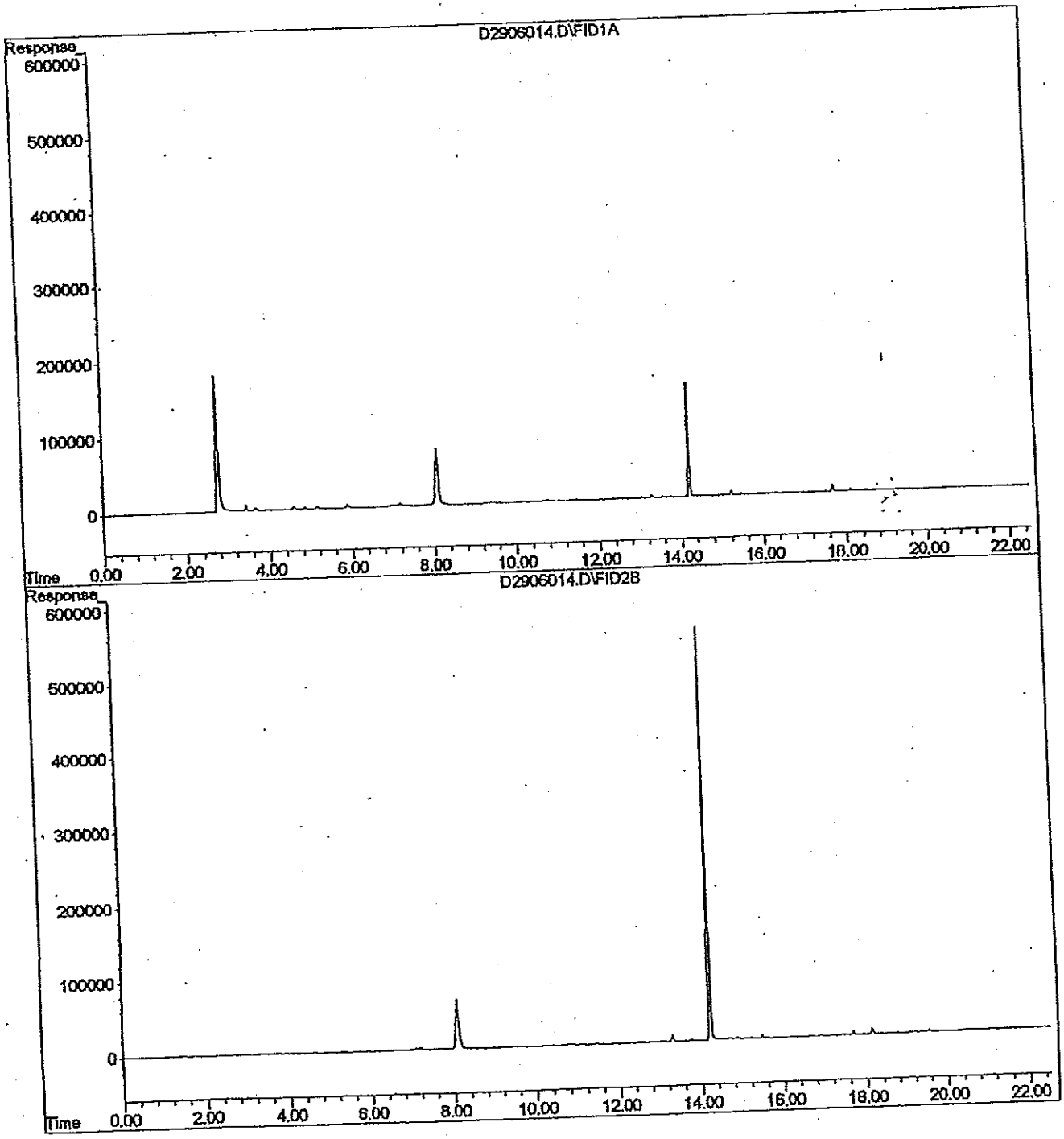
GP-1
GW-DRO

File : C:\HPCHEM\1\DATA\050206\E0206016.D
Operator : REX
Acquired : 2 May 2006 16:32 using AcqMethod TPHF.M
Instrument : GC-7
Sample Name: BPD0657-02
Misc Info : 1X NWTPH-DX WATER
Vial Number: 10



GP-2
SOIL - GRO

File : D:\HPCHEM\3\DATA\042906\D2906014.D
Operator : sks
Acquired : 29 Apr 2006 23:45 using AcqMethod TGC1506.M
Instrument : GC #6
Sample Name: bpd0657-03
Misc Info : 1x 100 uL
Vial Number: 14



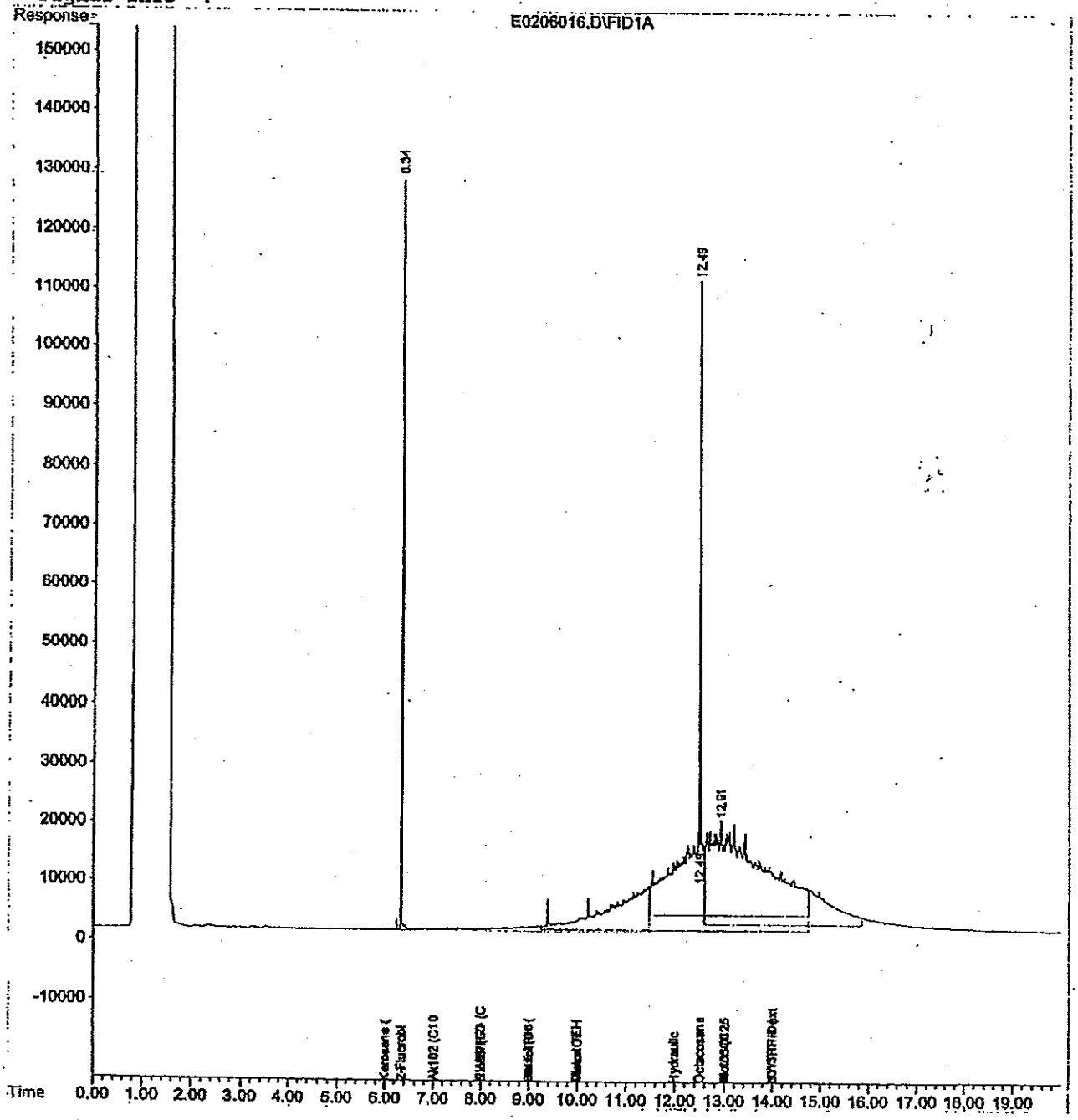
GP2
Soil DR

Quantitation Report

Data File : C:\HPCHEM\4\DATA\050206\E0206016.D Vial: 9
Acq On : 2 May 2006 22:57 Operator: gsm
Sample : bpd0657-03 Inst : GC-1
Misc : 5x nwtph-dx soil Multiplr: 1.00
IntFile : TPH.E
Quant Time: May 3 17:36 2006 Quant Results File: RFD1506B.RES

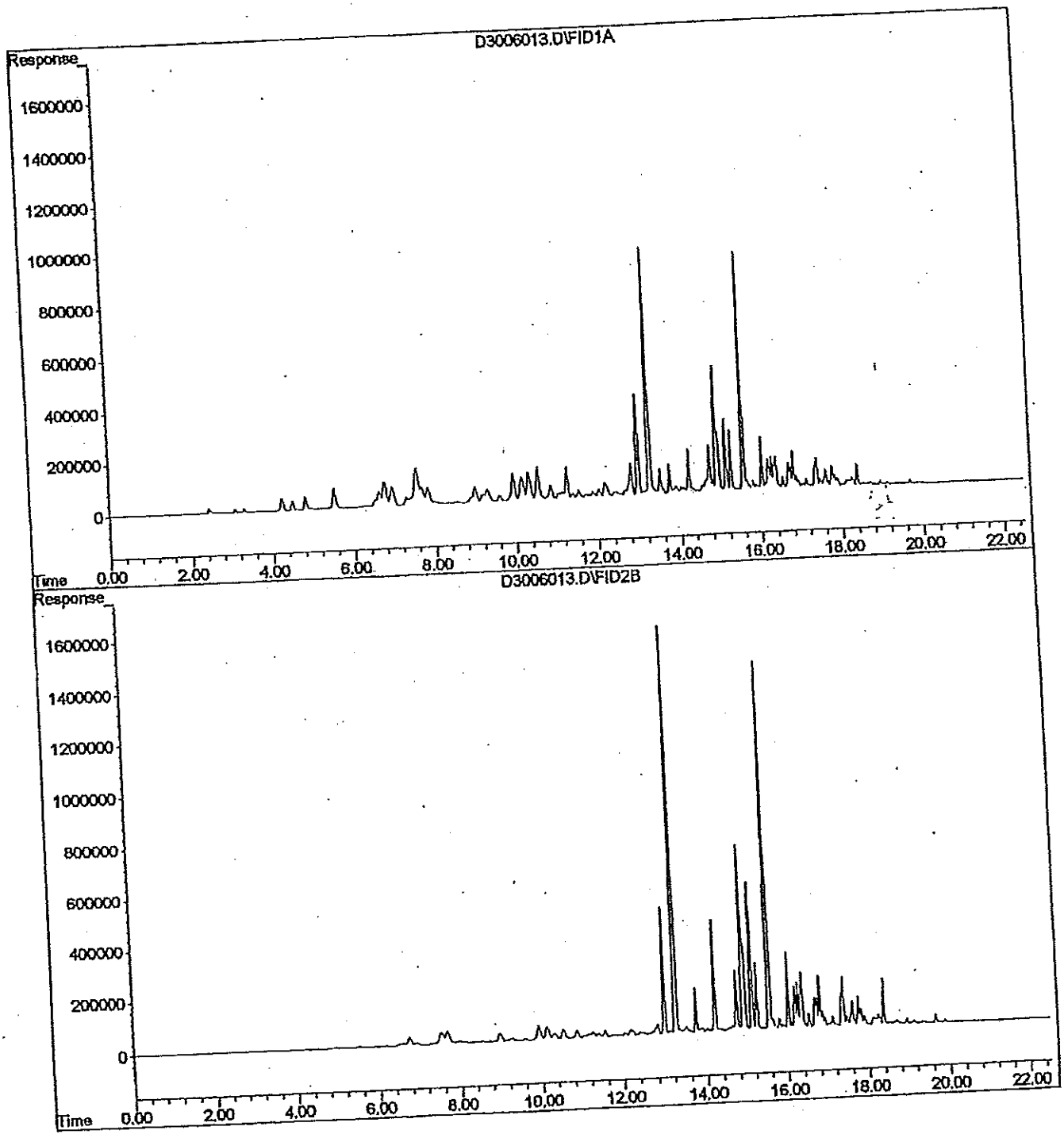
Quant Method : C:\HPCHEM\4\METHODS\RFD1506B.M (Chemstation Integrator)
Title : TPH-D Rear Method
Last Update : Tue May 02 11:20:49 2006
Response via : Multiple Level Calibration
DataAcq Meth : TPHF.M

Volume Inj. :
Signal Phase :
Signal Info :



Soil GRO

File : D:\HPCHEM\4\DATA\043006\D3006013.D
Operator : sks
Acquired : 1 May 2006 3:08 using AcqMethod TGC1806.M
Instrument : GC #8
Sample Name: BPD0657-04
Misc Info : 20x 5 uL
Vial Number: 13



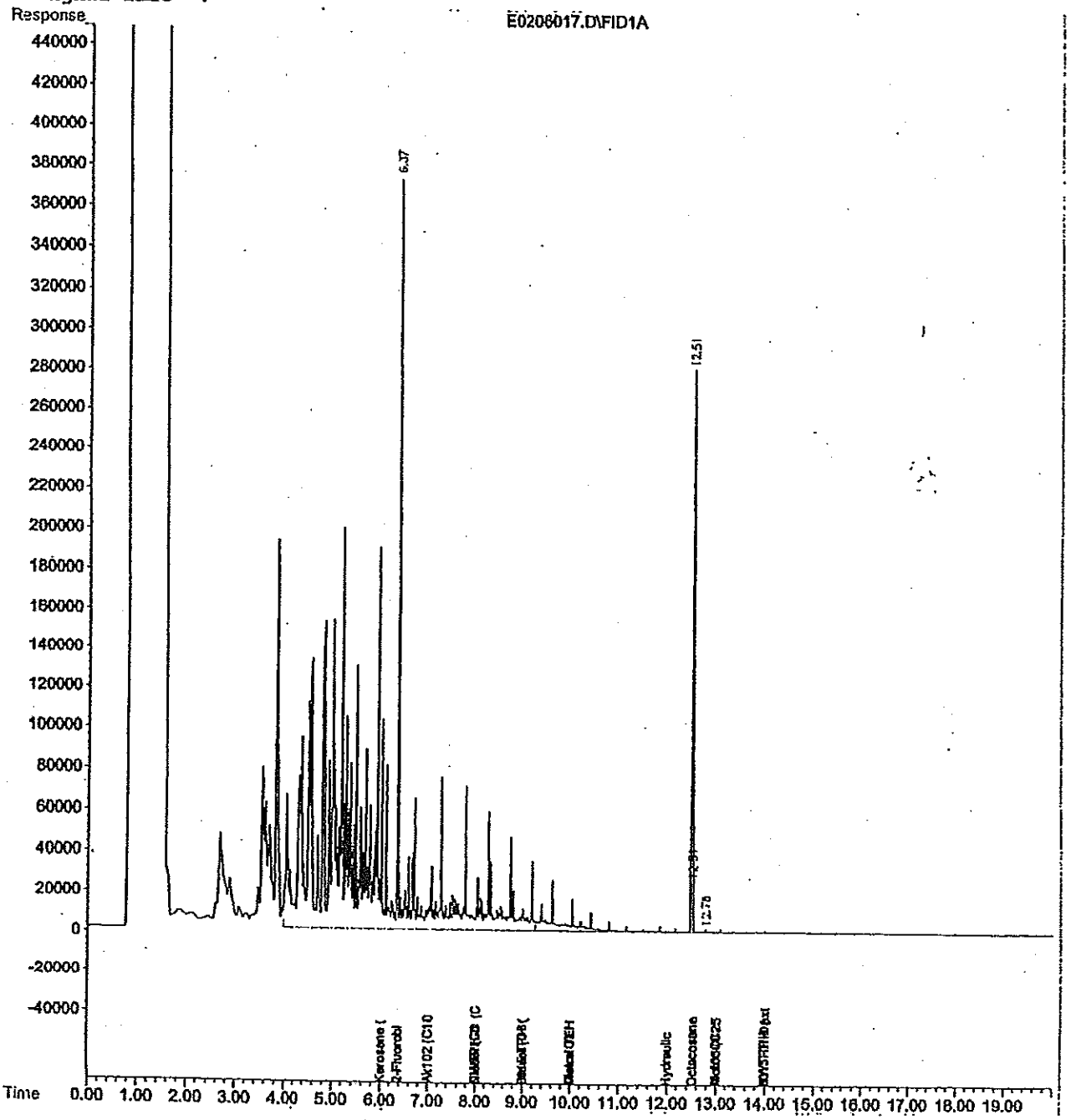
GP-3
SOIL-P1

Quantitation Report

Data File : C:\HPCHEM\4\DATA\050206\E0206017.D Vial: 10
Acq On : 2 May 2006 23:27 Operator: gsm
Sample : bpd0657-04 Inst : GC-1
Misc : 1x nwtph-dx soil Multiplr: 1.00
IntFile : TPH.E
Quant Time: May 3 9:42 2006 Quant Results File: RFD1506B.RES

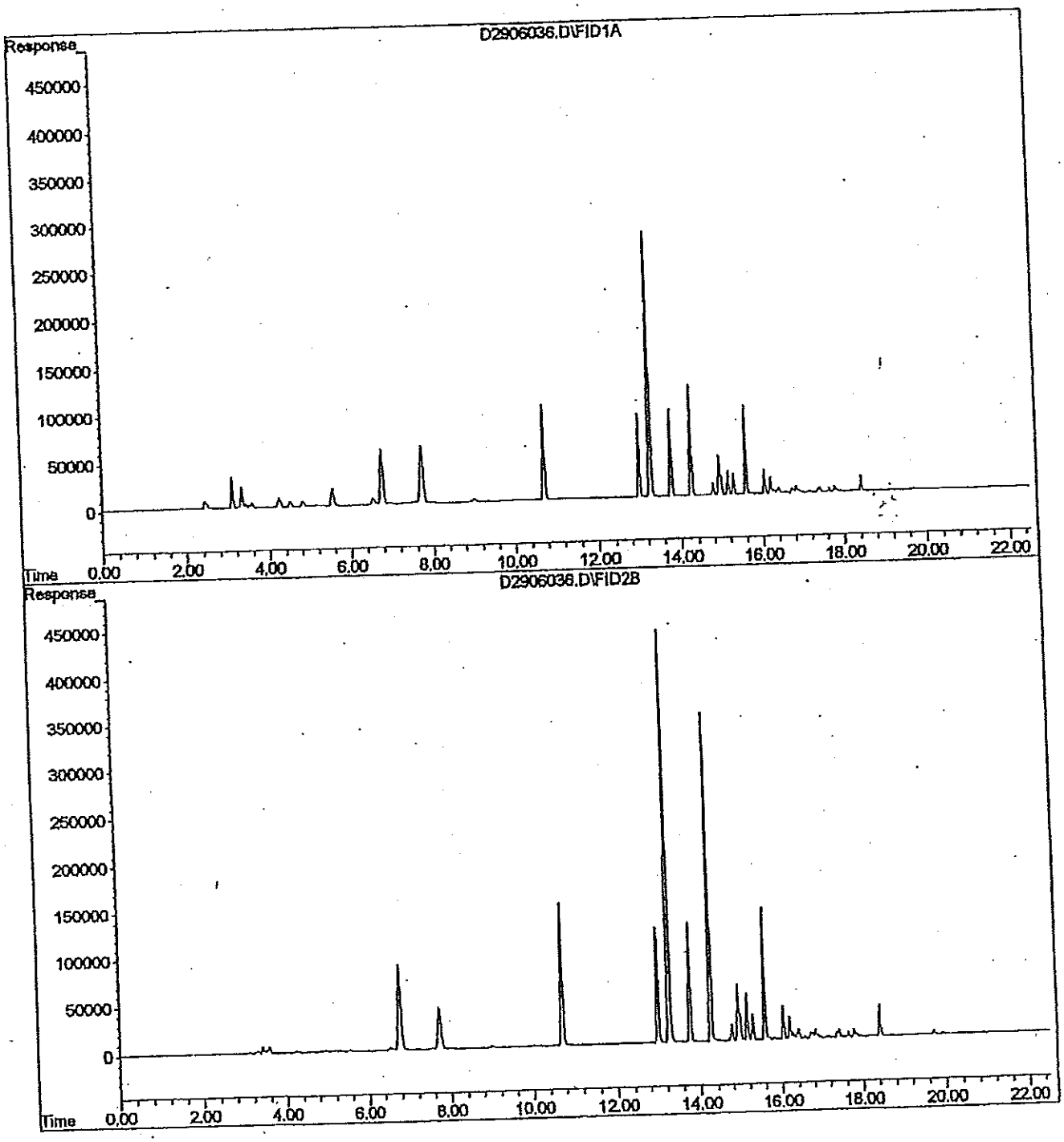
Quant Method : C:\HPCHEM\4\METHODS\RFD1506B.M (CHemstation Integrator)
Title : TPH-D Rear Method
Last Update : Tue May 02 11:20:49 2006
Response via : Multiple Level Calibration
DataAcq Meth : TPHF.M

Volume Inj. :
Signal Phase :
Signal Info :



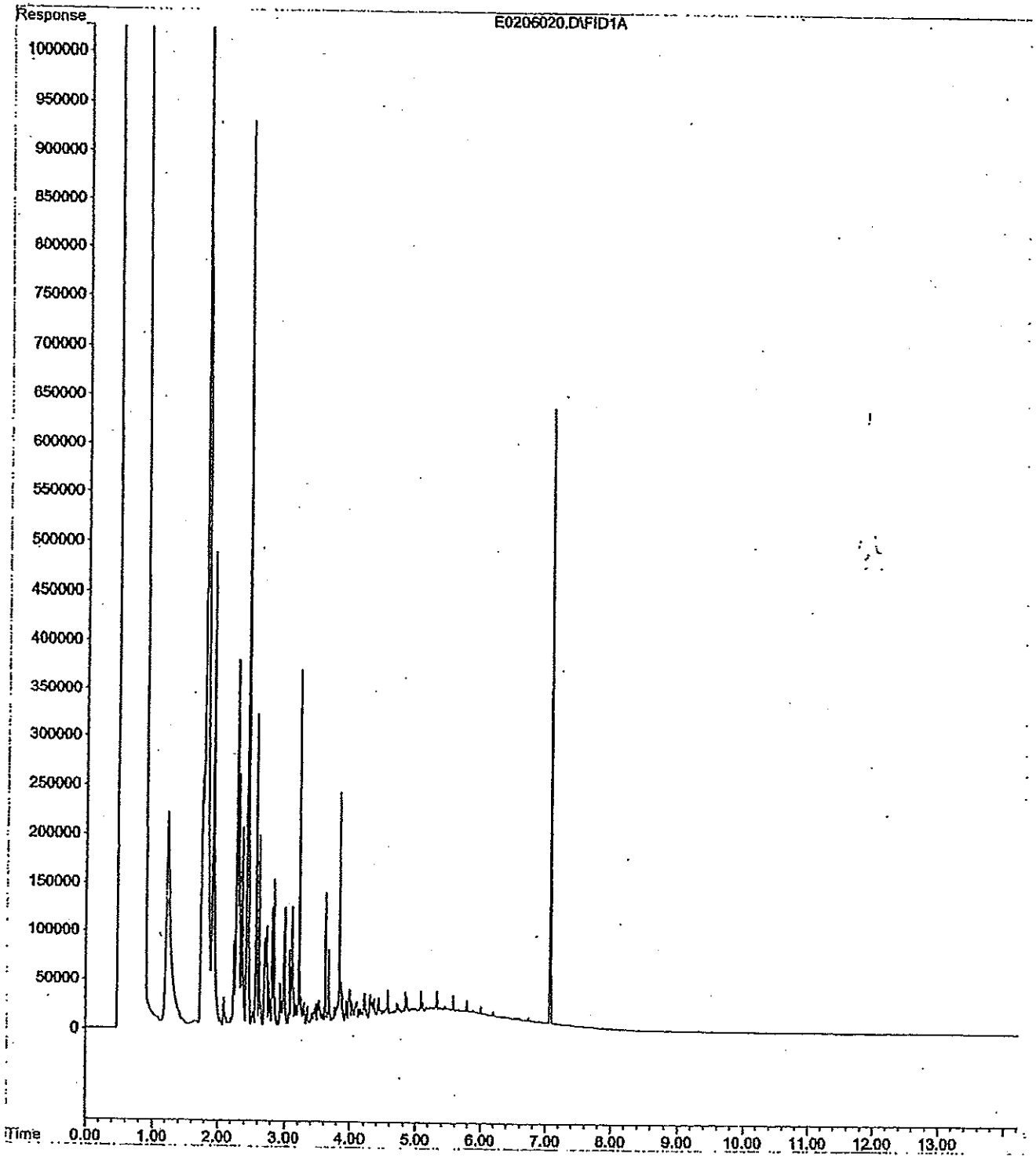
GW-GRO

File : D:\HPCHEM\4\DATA\042906\D2906036.D
Operator : sks
Acquired : 30 Apr 2006 11:46 using AcqMethod TGC1806.M
Instrument : GC #8
Sample Name: bpd0657-05re1
Misc Info : 100x 50 uL
Vial Number: 36



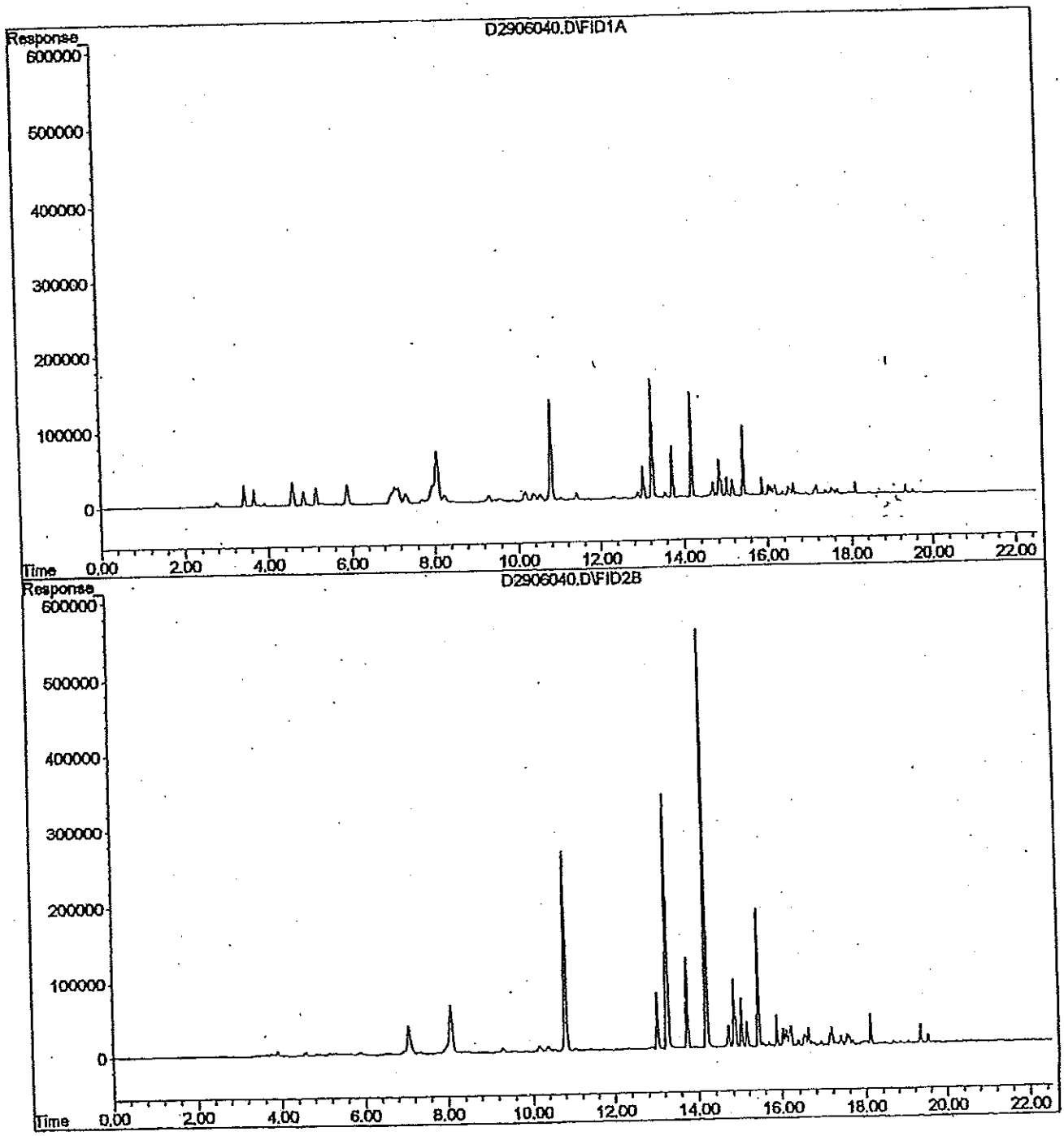
GW

File : C:\HPCHEM\1\DATA\050206\E0206020.D
Operator : REX
Acquired : 2 May 2006 17:58 using AcqMethod TPHF.M
Instrument : GC-7
Sample Name: BPD0657-05
Misc Info : 1X NWTPH-DX WATER
Vial Number: 11



GP-4
Soil - GRO

File : D:\HPCHEM\3\DATA\042906\D2906040.D
Operator : sks
Acquired : 30 Apr 2006 13:29 using AcqMethod TGC1506.M
Instrument : GC #6
Sample Name: bpd0657-06
Misc Info : 100x 1 uL
Vial Number: 40



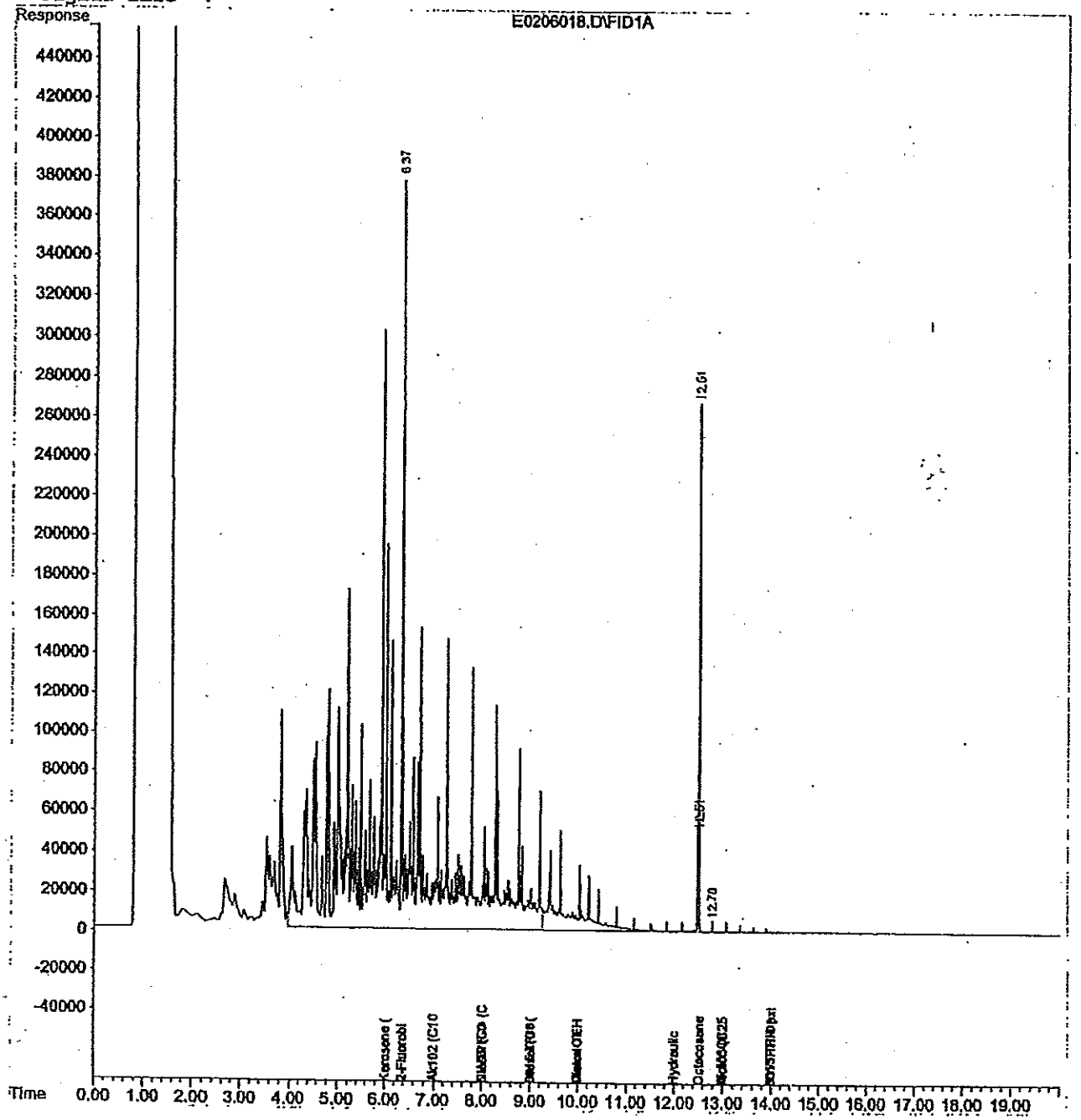
OP-7
soil-D1

Quantitation Report

Data File : C:\HPCHEM\4\DATA\050206\E0206018.D Vial: 11
Acq On : 2 May 2006 23:56 Operator: gsm
Sample : bpd0657-06 Inst : GC-1
Misc : 1x nwtph-dx soil Multiplr: 1.00
IntFile : TPH.E
Quant Time: May 3 9:42 2006 Quant Results File: RFD1506B.RES

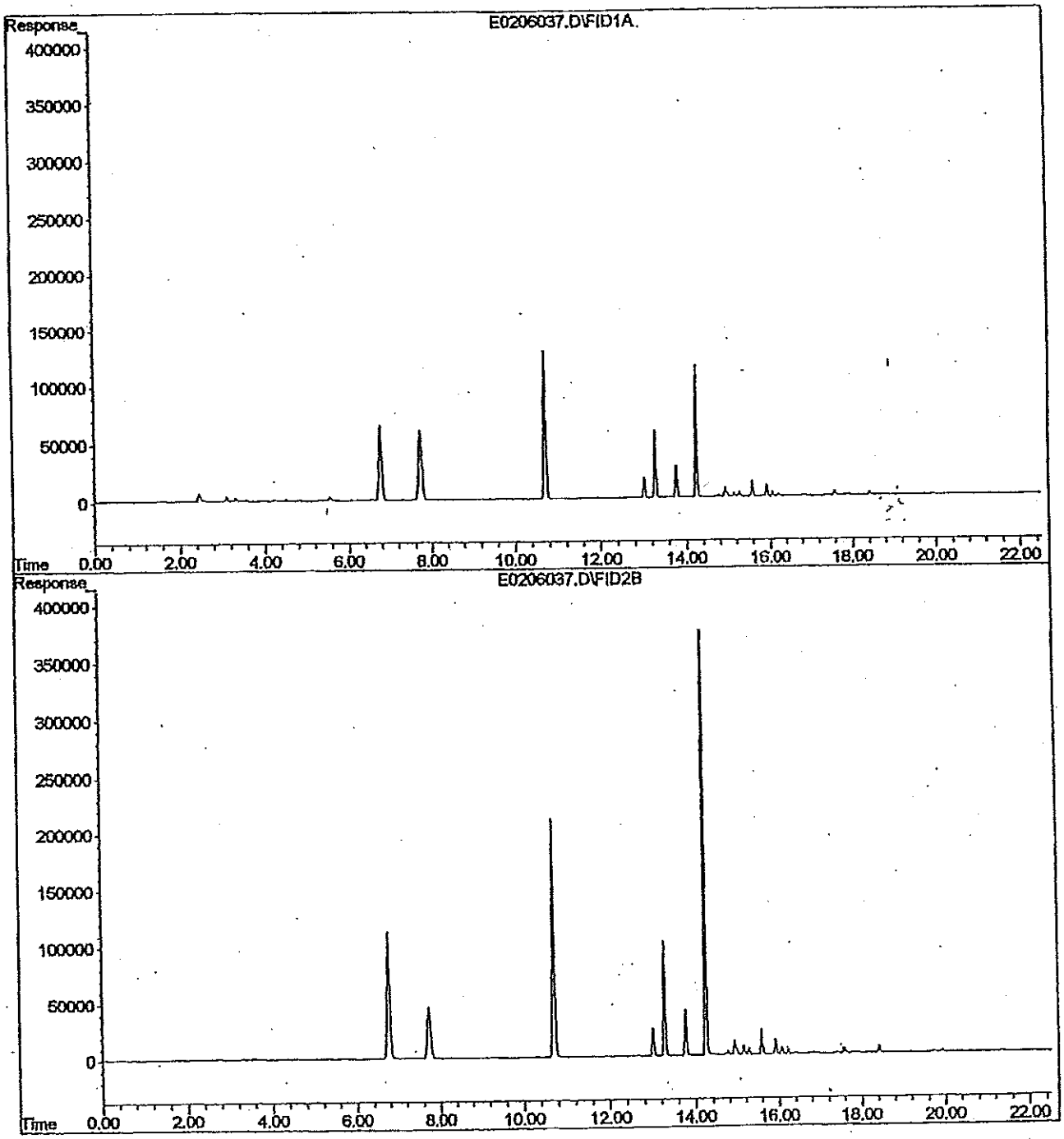
Quant Method : C:\HPCHEM\4\METHODS\RFD1506B.M (Chemstation Integrator)
Title : TPH-D Rear Method
Last Update : Tue May 02 11:20:49 2006
Response via : Multiple Level Calibration
DataAcq Meth : TPHF.M

Volume Inj. :
Signal Phase :
Signal Info :



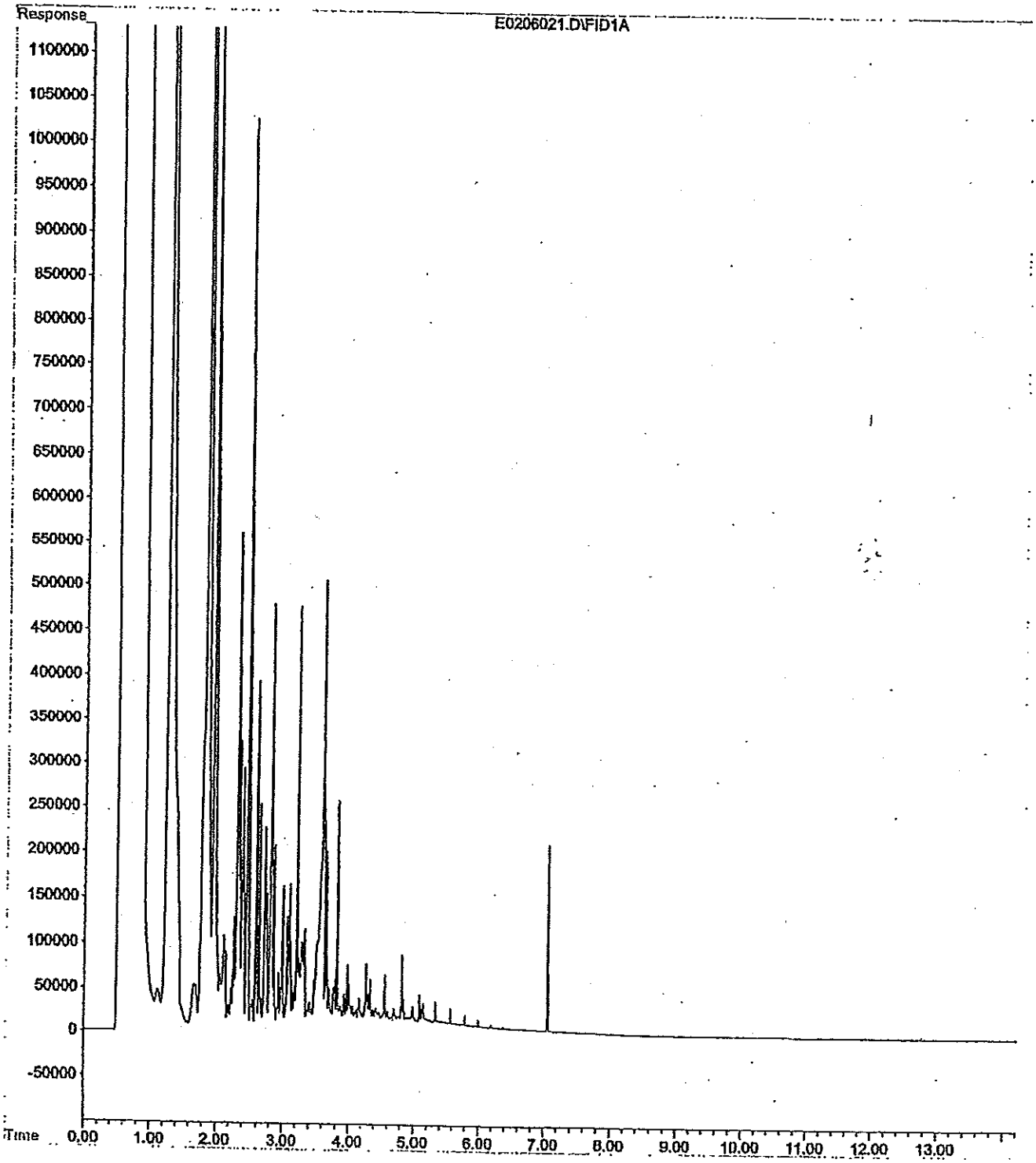
GF-T
GW-GRO

File : D:\HPCHEM\4\DATA\050206\E0206037.D
Operator : nsb
Acquired : 3 May 2006 8:28 using AcqMethod TGC1806.M
Instrument : GC #8
Sample Name: bpd0657-07
Misc Info : 500x 10 uL
Vial Number: 37



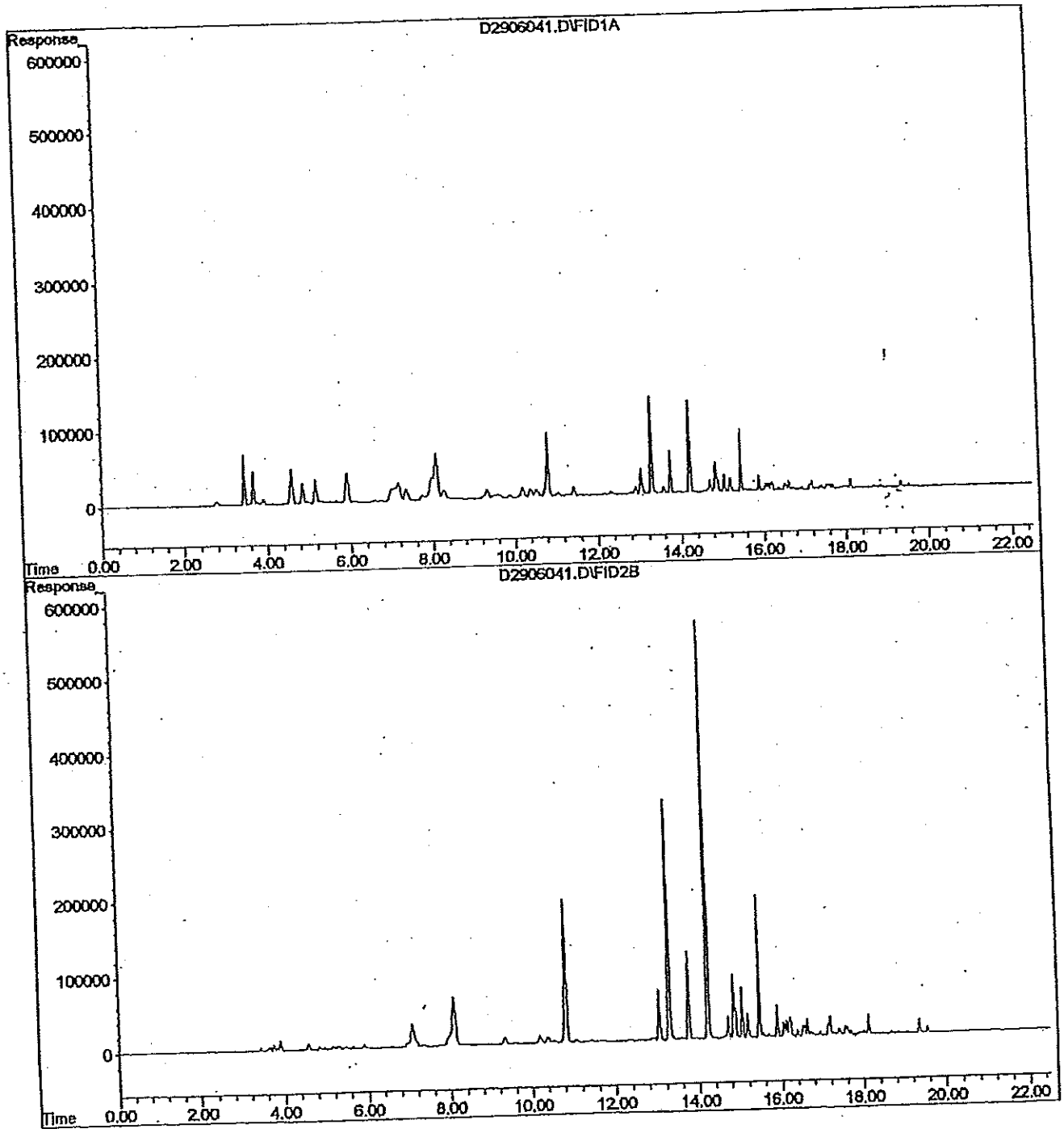
GP
GW-1

File : C:\HPCHEM\1\DATA\050206\E0206021.D
Operator : REX
Acquired : 2 May 2006 18:24 using AcqMethod TPHF.M
Instrument : GC-7
Sample Name: BPD0657-07
Misc Info : 5X NWTPH-DX WATER
Vial Number: 12



Soil - GR

File : D:\HPCHEM\3\DATA\042906\D2906041.D
Operator : sks
Acquired : 30 Apr 2006 14:00 using AcqMethod TGC1506.M
Instrument : GC #6
Sample Name: bpd0657-08
Misc Info : 200x 0.5 uL
Vial Number: 41



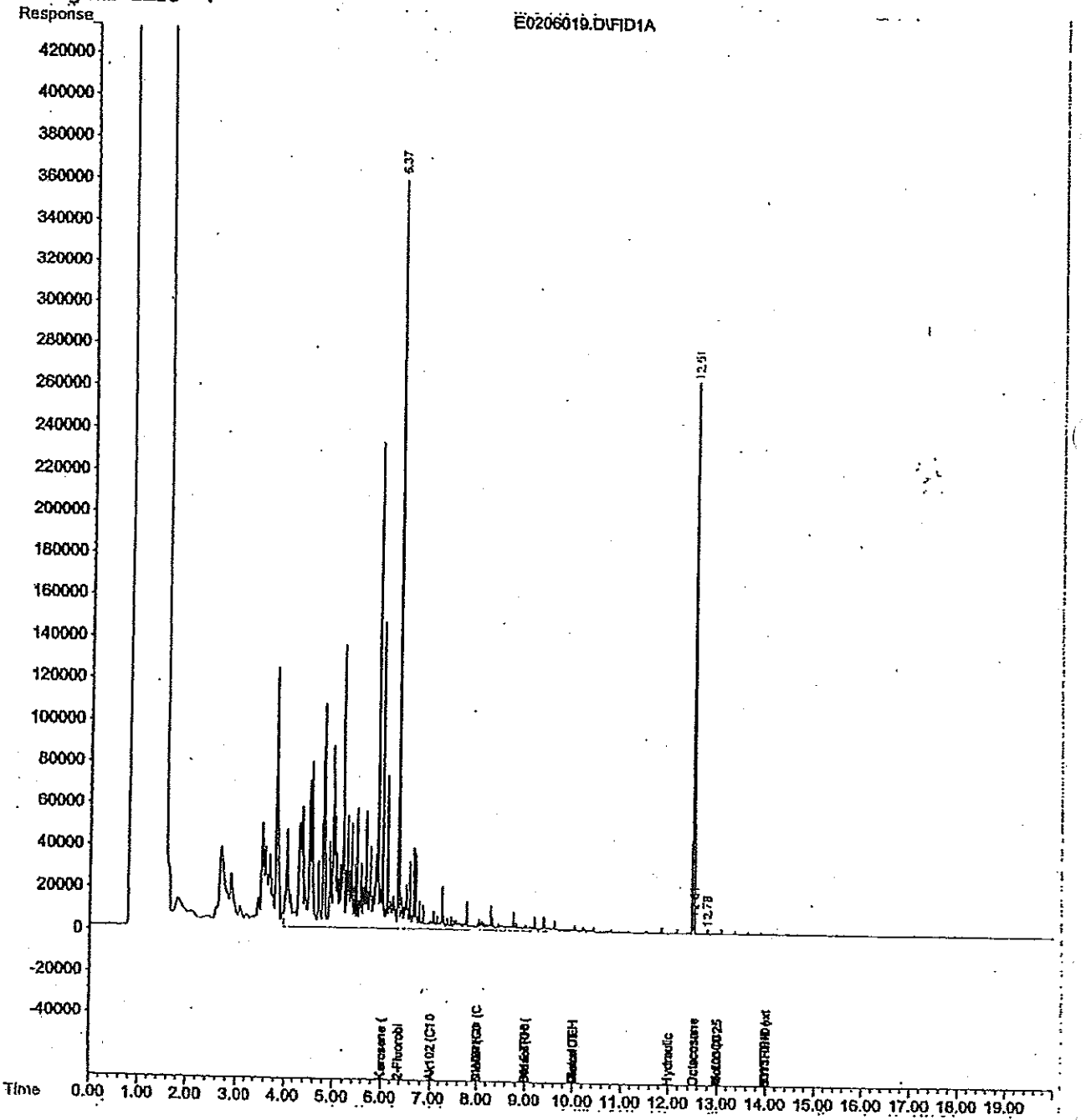
Quantitation Report

Data File : C:\HPCHEM\4\DATA\050206\E0206019.D
Acq On : 3 May 2006 00:25
Sample : bpd0657-08
Misc : 1x nwtph-dx soil
IntFile : TPH.E
Quant Time: May 3 9:42 2006 Quant Results File: RFD1506B.RES

Vial: 12
Operator: gsm
Inst : GC-1
Multiplr: 1.00

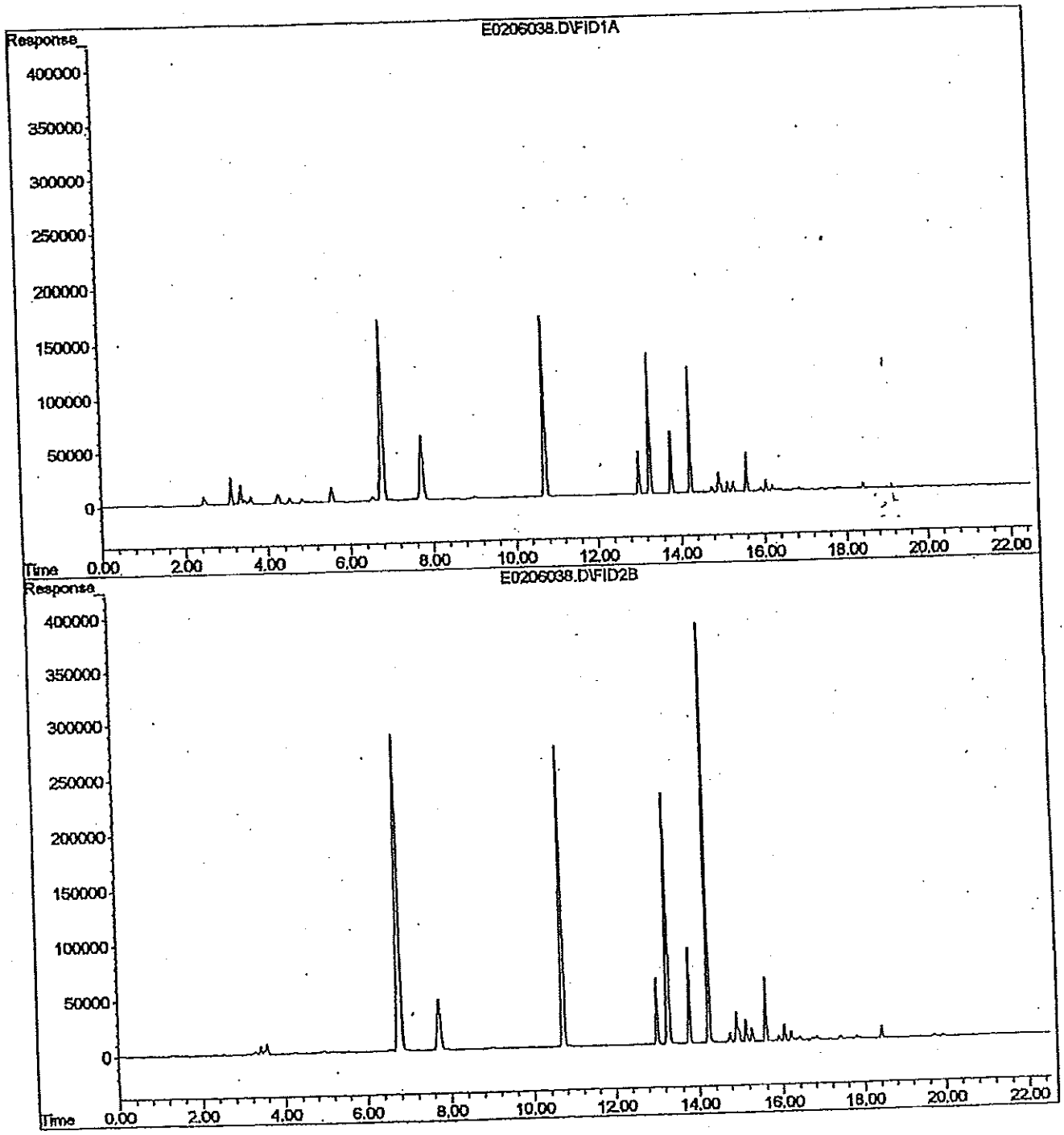
Quant Method : C:\HPCHEM\4\METHODS\RFD1506B.M (Chemstation Integrator)
Title : TPH-D Rear Method
Last Update : Tue May 02 11:20:49 2006
Response via : Multiple Level Calibration
DataAcq Meth : TPHF.M

Volume Inj. :
Signal Phase :
Signal Info :



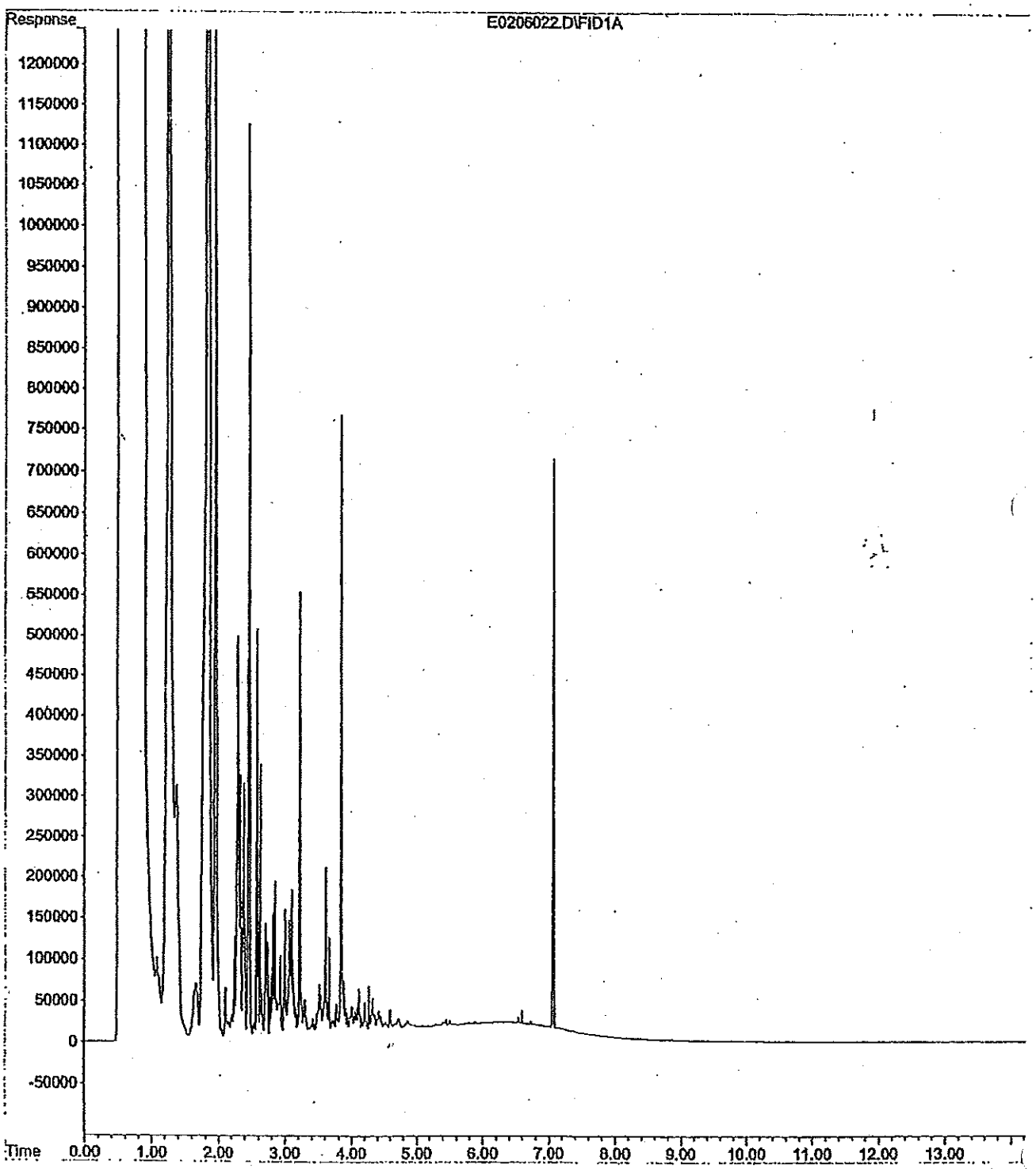
GW-680

File : D:\HPCHEM\4\DATA\050206\E0206038.D
Operator : nsb
Acquired : 3 May 2006 8:59 using AcqMethod TGC1806.M
Instrument : GC #8
Sample Name: bpd0657-09
Misc Info : 200x 25 uL
Vial Number: 38



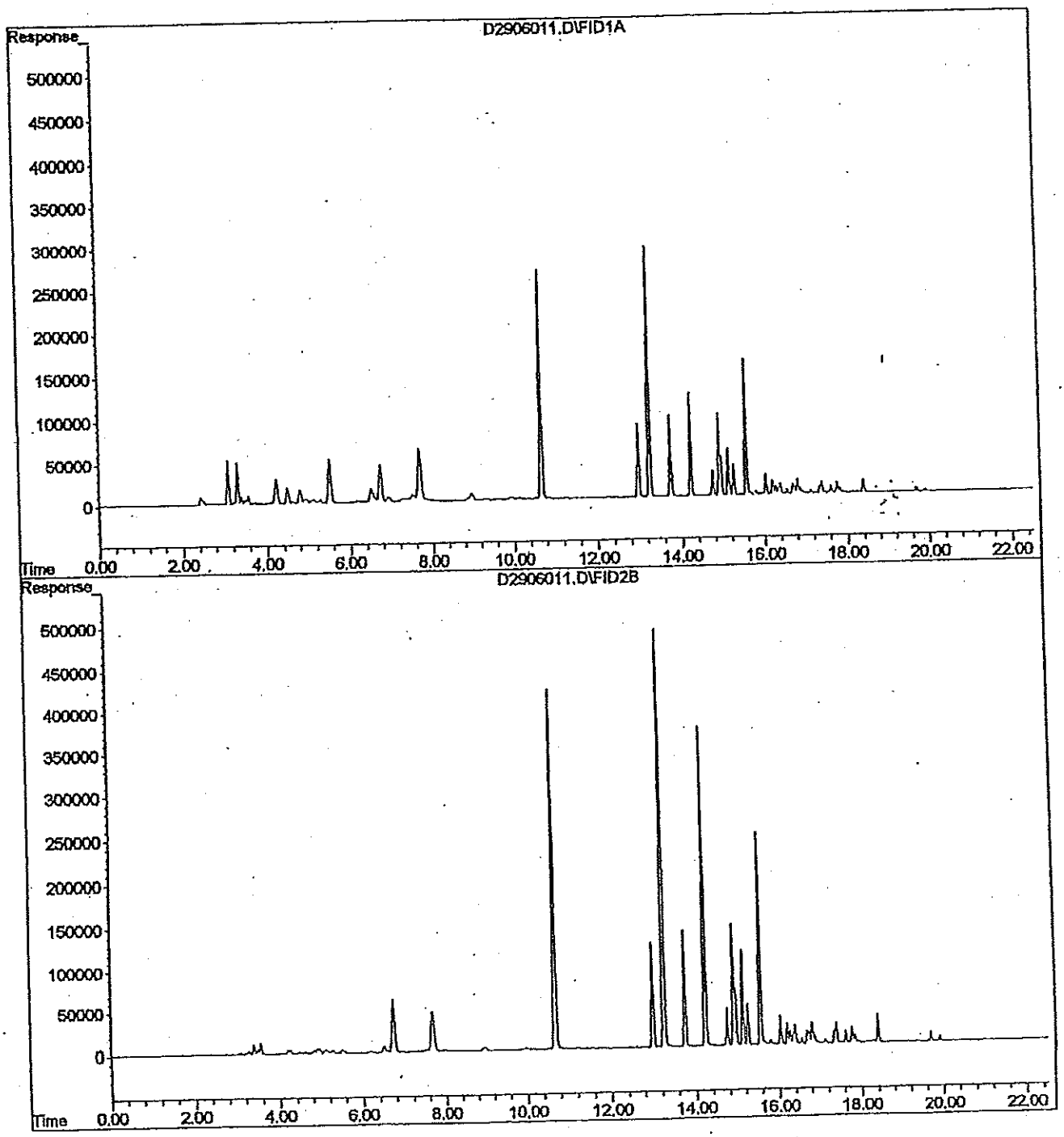
GV

File : C:\HPCHEM\1\DATA\050206\E0206022.D
Operator : REX
Acquired : 2 May 2006 18:53 using AcqMethod TPHF.M
Instrument : GC-7
Sample Name: BPD0657-09
Misc Info : 1X NWTPH-DX WATER
Vial Number: 13



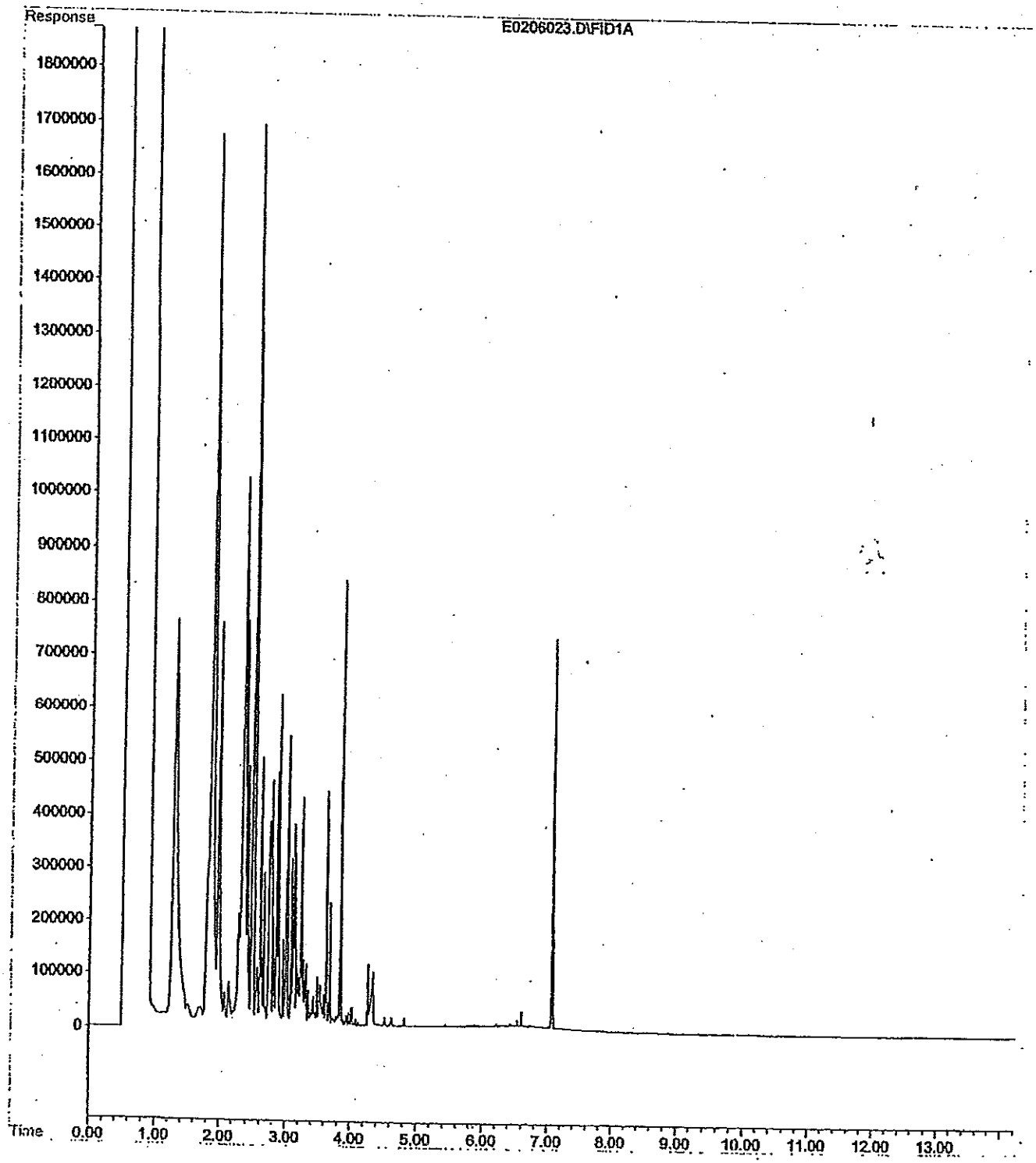
GP-6
GW-GRO

File : D:\HPCHEM\4\DATA\042906\D2906011.D
Operator : sks
Acquired : 29 Apr 2006 22:58 using AcqMethod TGC1806.M
Instrument : GC #8
Sample Name: bpd0657-11
Misc Info : 50x 100 uL
Vial Number: 11



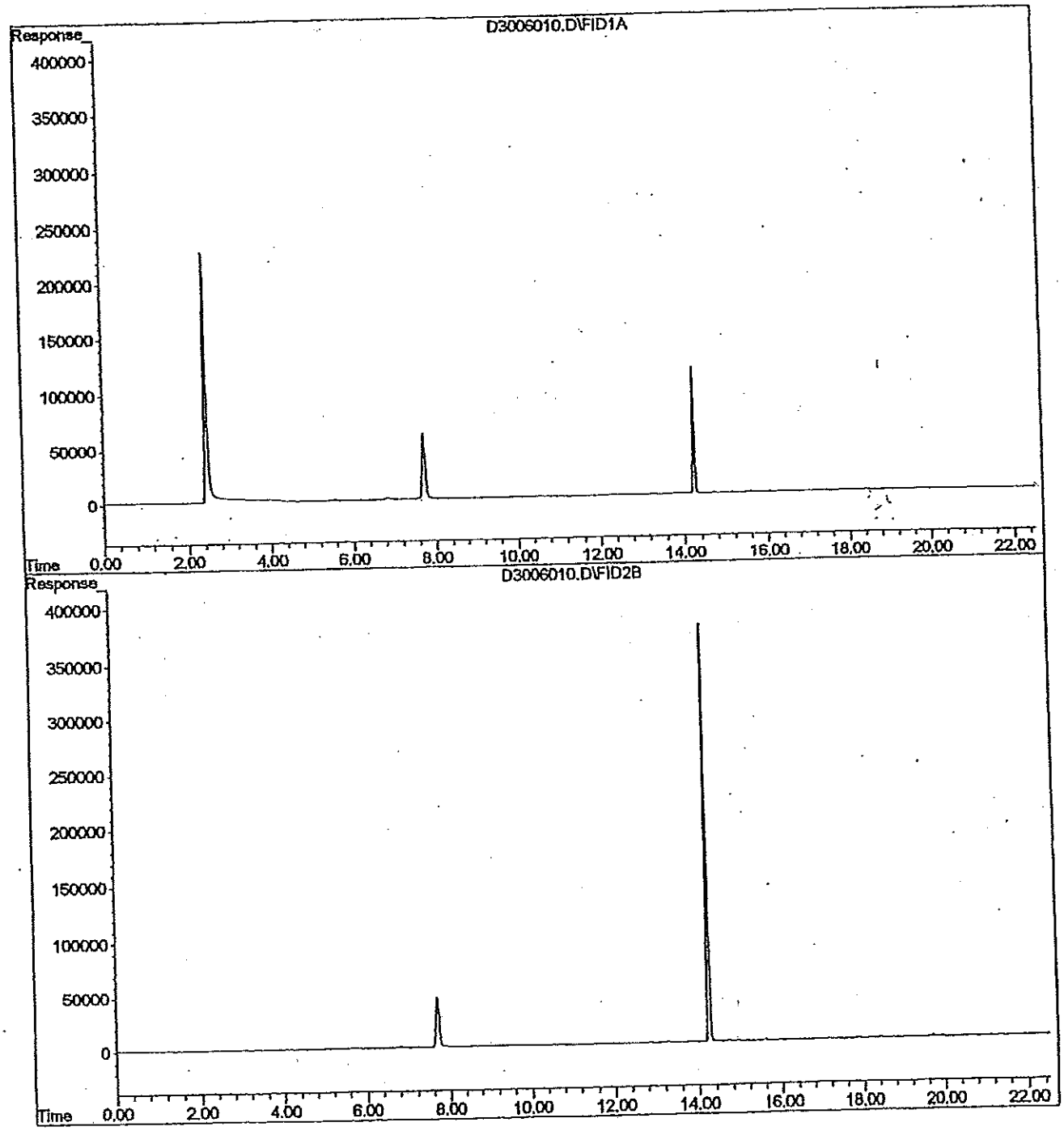
GP-GW-D

File : C:\HPCHEM\1\DATA\050206\E0206023.D
Operator : REX
Acquired : 2 May 2006 19:06 using AcqMethod TPHF.M
Instrument : GC-7
Sample Name: BPD0657-11
Misc Info : 1X NWTPH-DX WATER
Vial Number: 14



GP-7
Soil - GRO

File : D:\HPCHEM\4\DATA\043006\D3006010.D
Operator : sks
Acquired : 1 May 2006 1:36 using AcqMethod TGC1806.M
Instrument : GC #8
Sample Name: BPD0657-12
Misc Info : 1x 100 uL
Vial Number: 10



GP-1

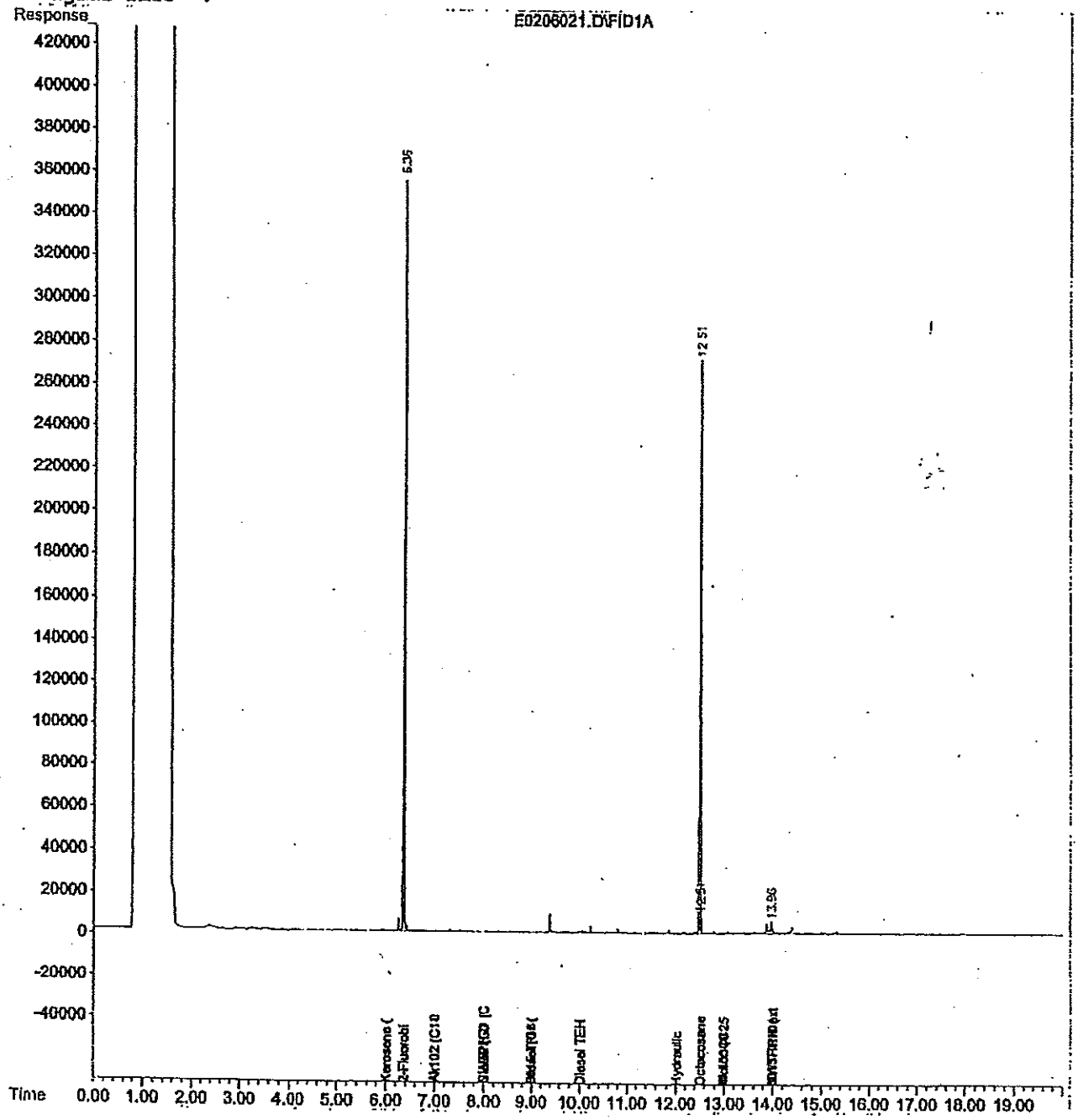
Soil- DR

Quantitation Report

Data File : C:\HPCHEM\4\DATA\050206\E0206021.D Vial: 14
Acq On : 3 May 2006 1:23 Operator: gsm
Sample : bpd0657-12 Inst : GC-1
Misc : 1x nwtph-dx soil Multiplr: 1.00
IntFile : TPH.E
Quant Time: May 3 9:42 2006 Quant Results File: RFD1506B.RES

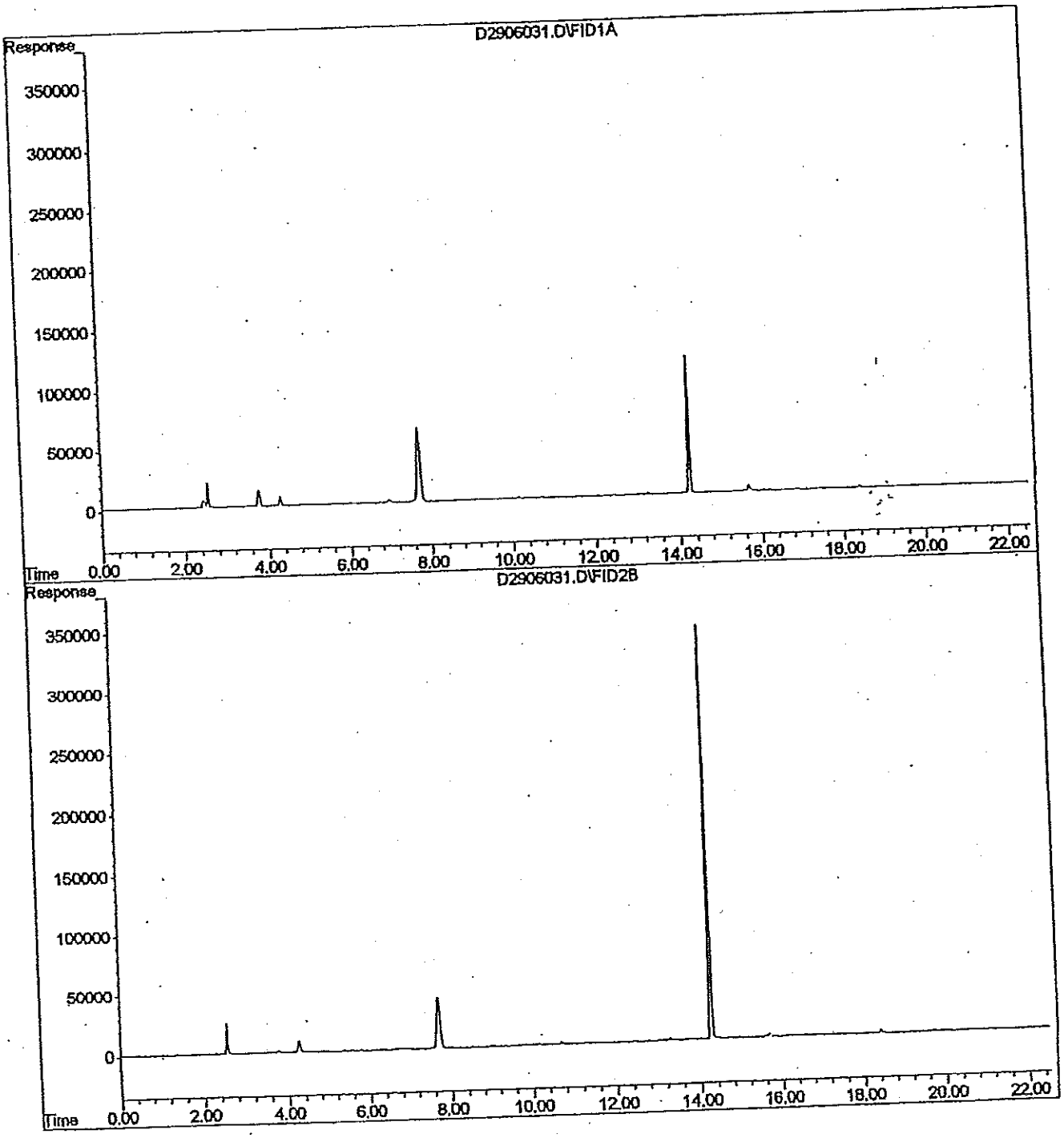
Quant Method : C:\HPCHEM\4\METHODS\RFD1506B.M (Chemstation Integrator)
Title : TPH-D Rear Method
Last Update : Tue May 02 11:20:49 2006
Response via : Multiple Level Calibration
DataAcq Meth : TPHF.M

Volume Inj. :
Signal Phase :
Signal Info :



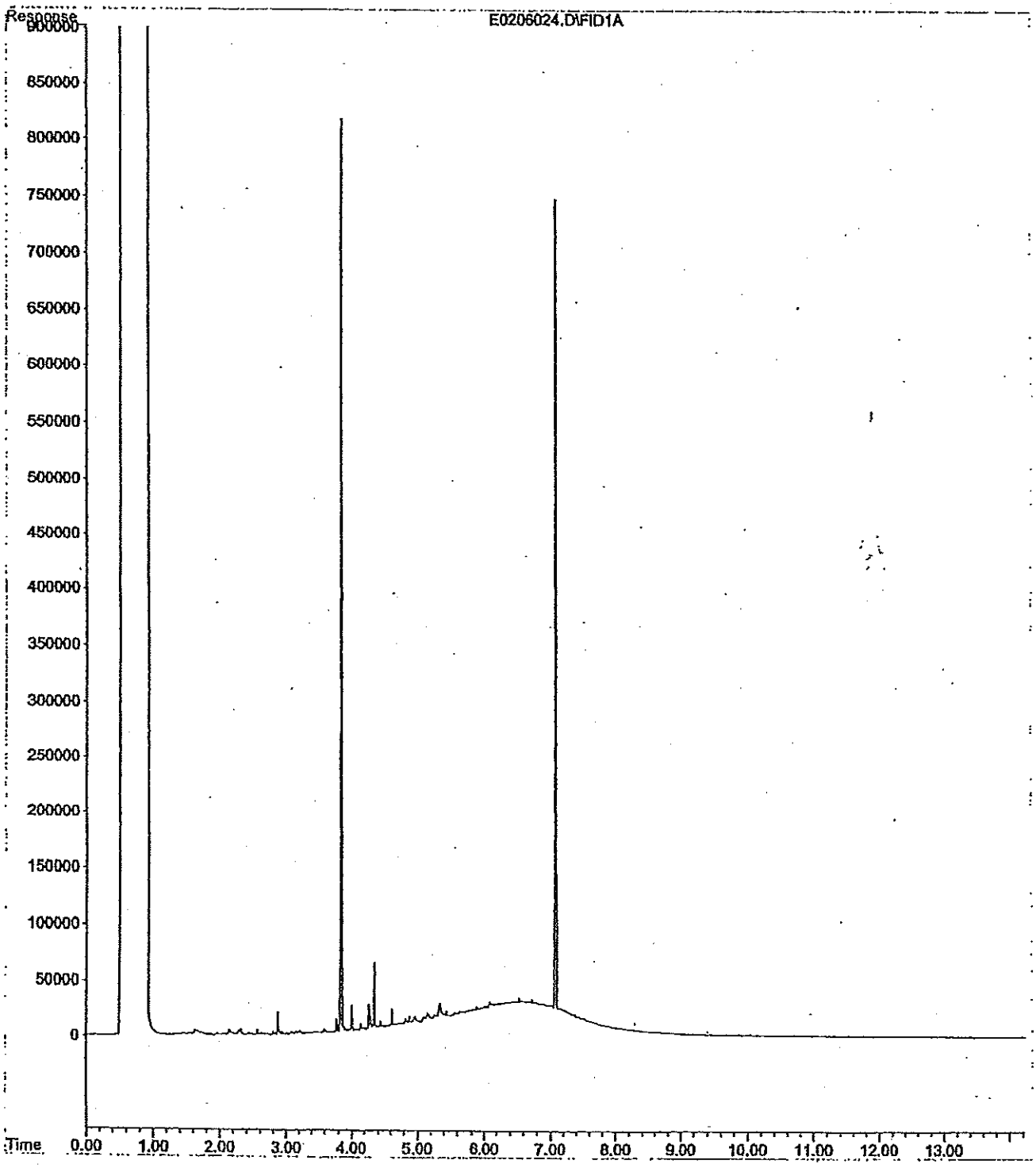
GW-GRO

File : D:\HPCHEM\4\DATA\042906\D2906031.D
Operator : sks
Acquired : 30 Apr 2006 9:12 using AcqMethod TGC1806.M
Instrument : GC #8
Sample Name: bpd0657-14
Misc Info : 1x 5 mL
Vial Number: 31



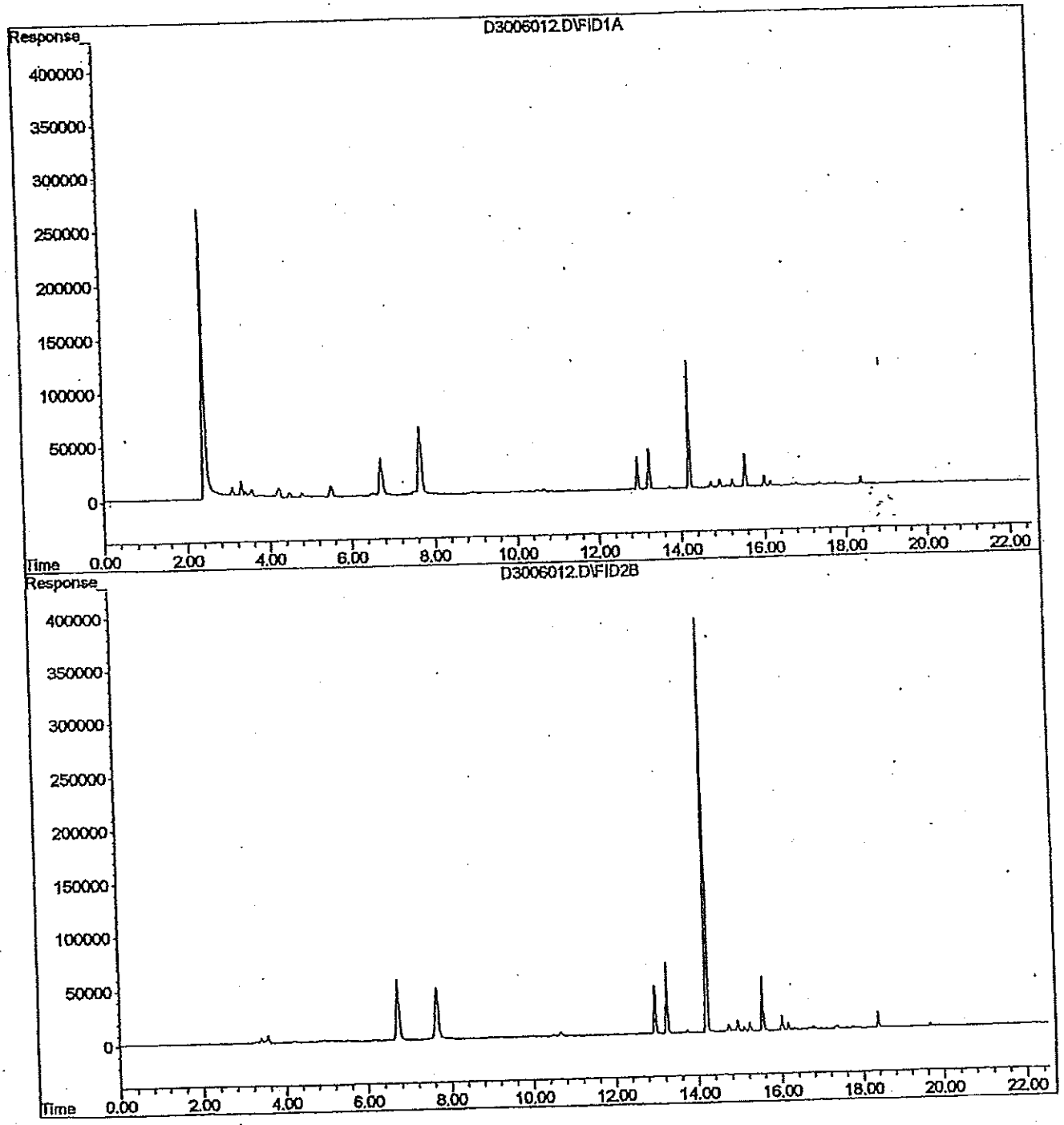
GB
GW-D1

File : C:\HPCHEM\1\DATA\050206\E0206024.D
Operator : REX
Acquired : 2 May 2006 19:38 using AcqMethod TPHF.M
Instrument : GC-7
Sample Name: BPD0657-14
Misc Info : 1X NWTPH-DX WATER
Vial Number: 15



GP-8
Soil-GRO

File : D:\HPCHEM\4\DATA\043006\D3006012.D
Operator : sks
Acquired : 1 May 2006 2:37 using AcqMethod TGC1806.M
Instrument : GC #8
Sample Name: BPD0657-16
Misc Info : 1x 100 uL
Vial Number: 12



GP-
Soil-DR

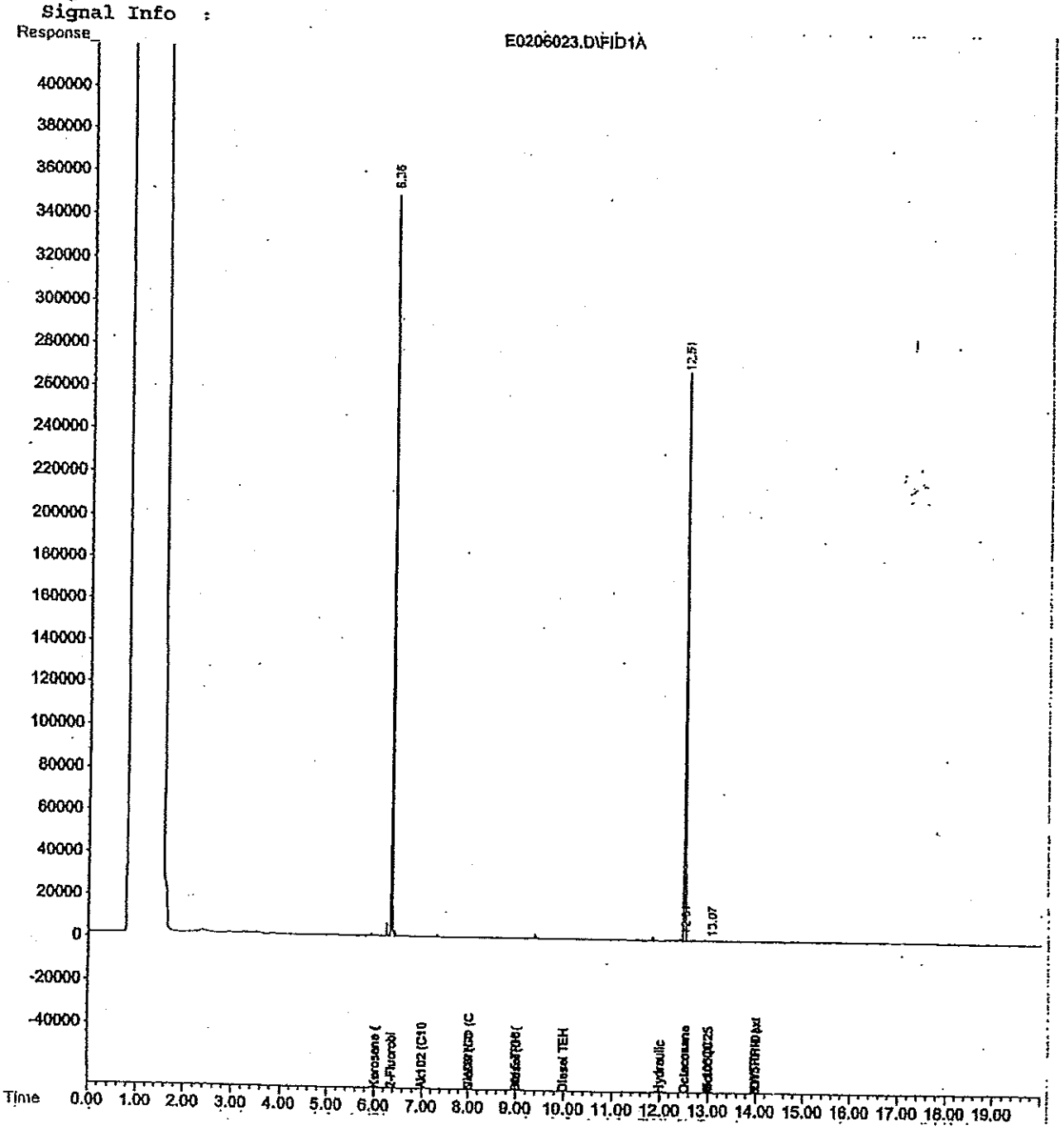
Quantitation Report

Data File : C:\HPCHEM\4\DATA\050206\E0206023.D
Acq On : 3 May 2006 2:21
Sample : bpd0657-16
Misc : 1x nwtph-dx soil
IntFile : TPH.E
Quant Time: May 3 9:43 2006 Quant Results File: RFD1506B.RES

Vial: 16
Operator: gsm
Inst : GC-1
Multiplr: 1.00

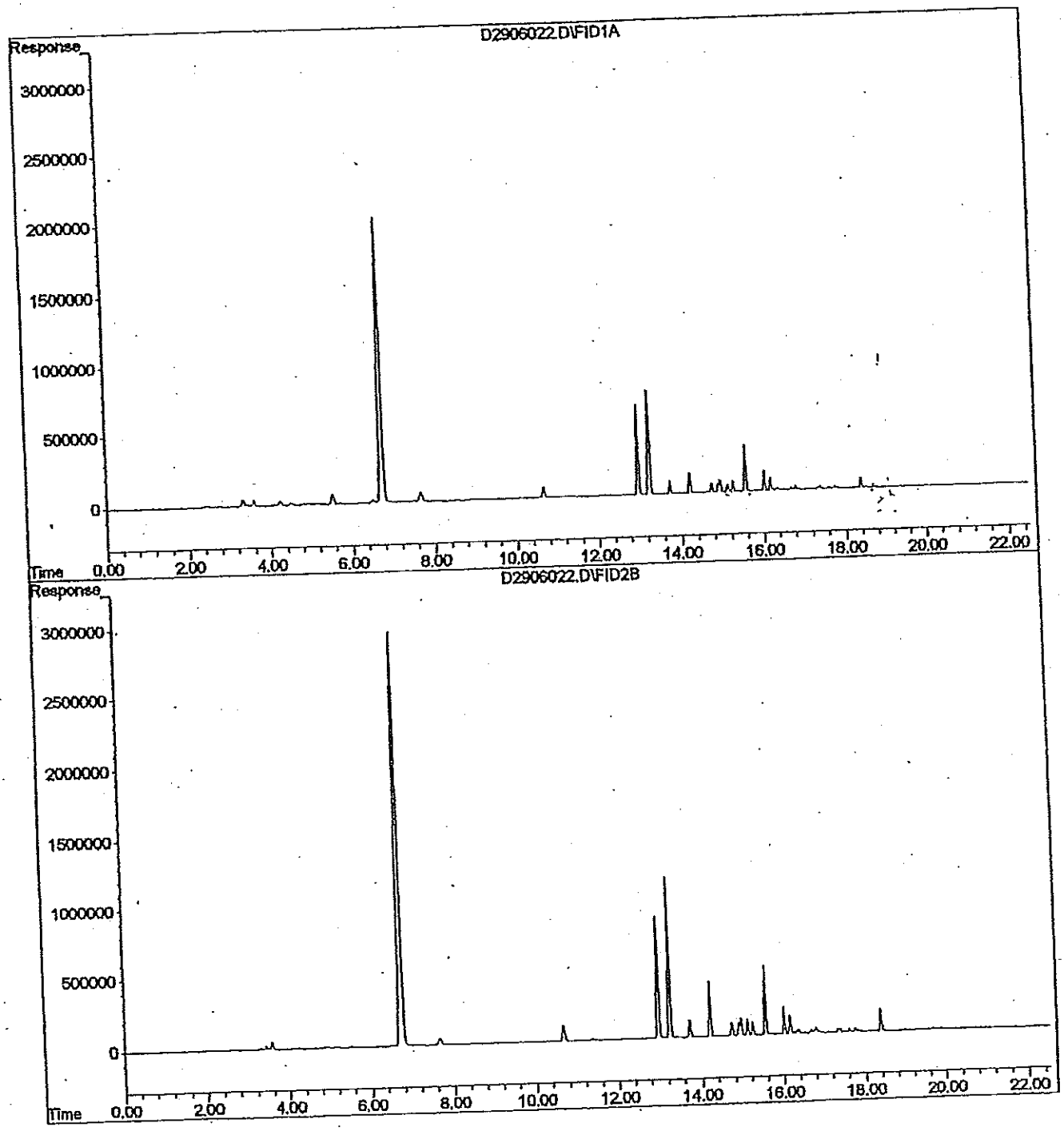
Quant Method : C:\HPCHEM\4\METHODS\RFD1506B.M (Chemstation Integrator)
Title : TPH-D Rear Method
Last Update : Tue May 02 11:20:49 2006
Response via : Multiple Level Calibration
DataAcq Meth : TPHF.M

Volume Inj. :
Signal Phase :
Signal Info :



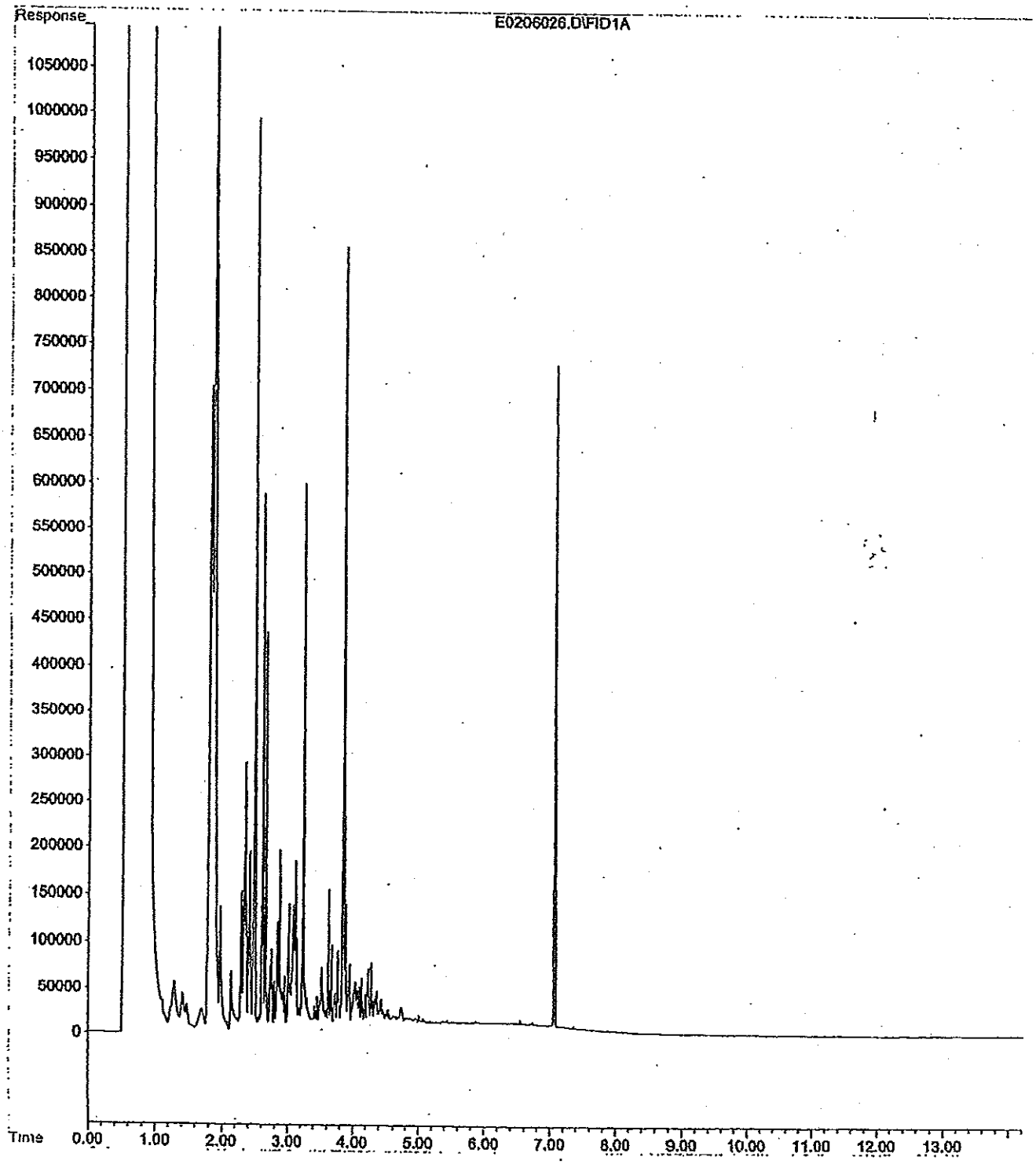
GV-GRO

File : D:\HPCHEM\4\DATA\042906\D2906022.D
Operator : sks
Acquired : 30 Apr 2006 4:36 using AcqMethod TGC1806.M
Instrument : GC #8
Sample Name: bpd0657-17
Misc Info : 5x 1 mL
Vial Number: 22



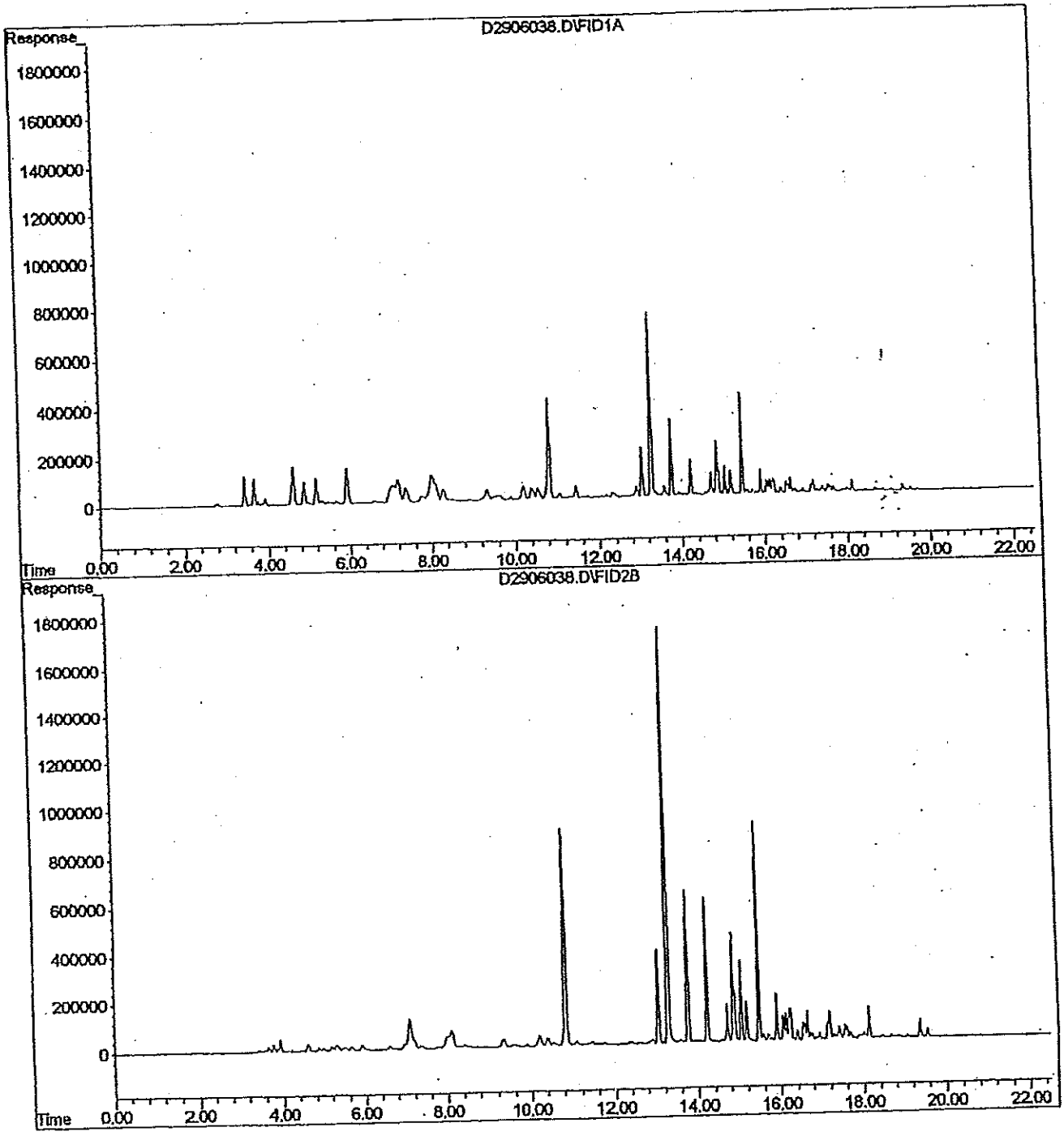
GP.
GW-D

File : C:\HPCHEM\1\DATA\050206\E0206026.D
Operator : REX
Acquired : 2 May 2006 20:21 using AcqMethod TPHF.M
Instrument : GC-7
Sample Name: BPD0657-17
Misc Info : 1X NWTPH-DX WATER
Vial Number: 17



Soil- GRO
4'

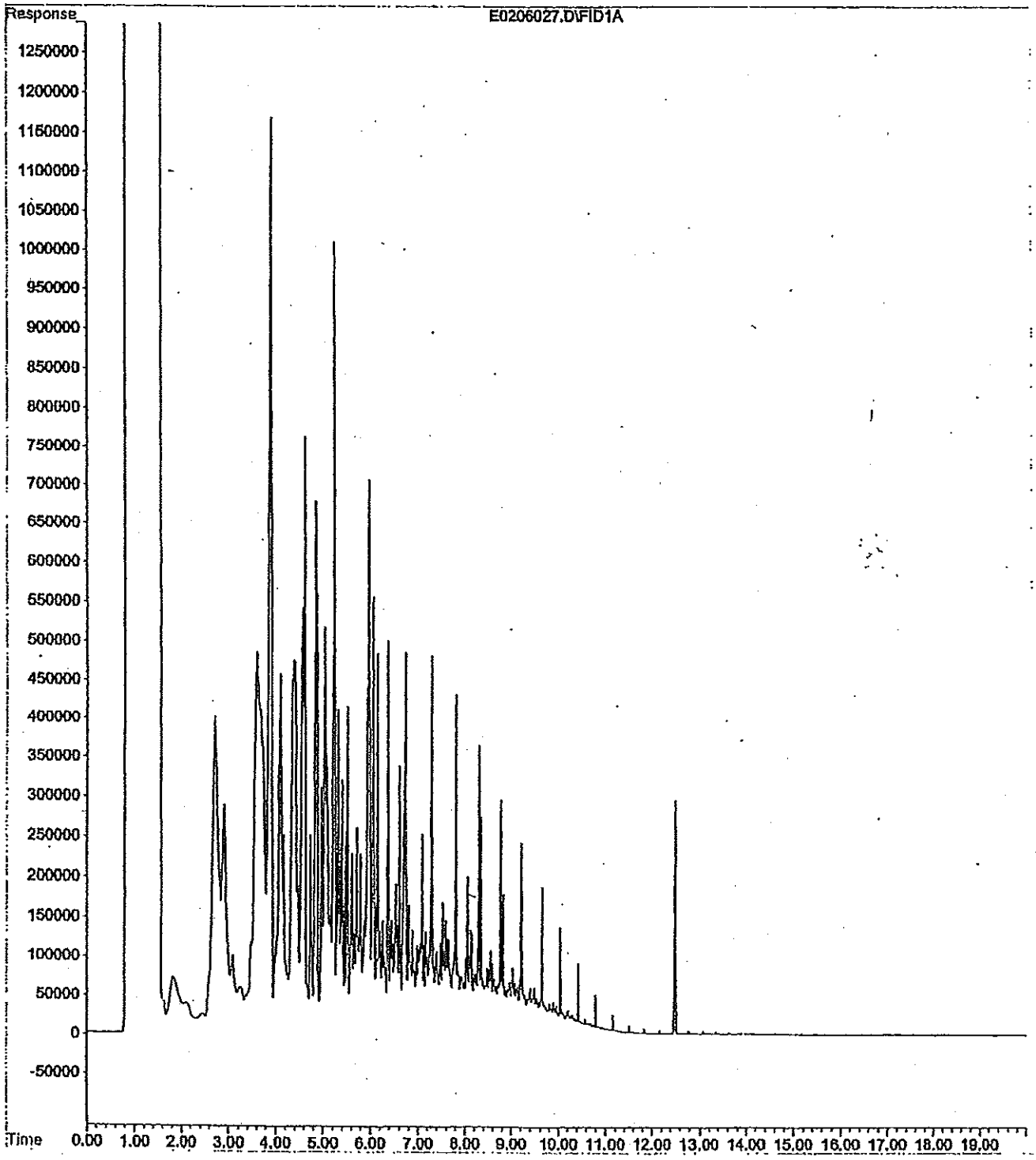
File : D:\HPCHEM\3\DATA\042906\D2906038.D
Operator : sks
Acquired : 30 Apr 2006 12:27 using AcqMethod TGC1506.M
Instrument : GC #6
Sample Name: bpd0657-19
Misc Info : 20x 5 uL
Vial Number: 38



Soil - D

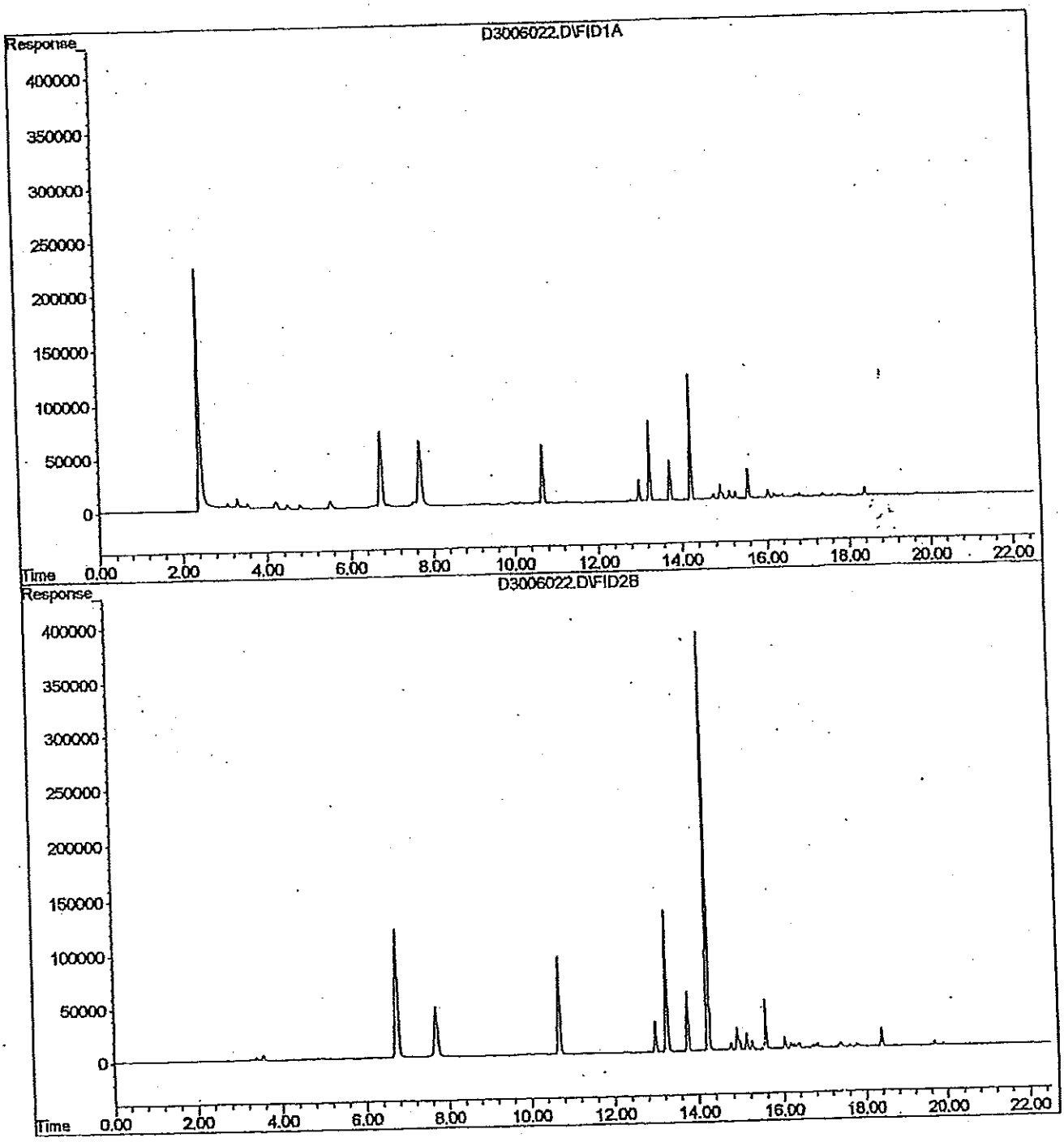
4°

File : C:\HPCHEM\4\DATA\050206\E0206027.D
Operator : gsm
Acquired : 3 May 2006 4:17 using AcqMethod TPHF.M
Instrument : GC-1
Sample Name: bpd0657-19
Misc Info : 1x nwtph-dx sg soil
Vial Number: 19



Soil-GRO
8'

File : D:\HPCHEM\4\DATA\043006\D3006022.D
Operator : sks
Acquired : 1 May 2006 7:45 using AcqMethod TGC1806.M
Instrument : GC #8
Sample Name: BPD0657-20
Misc Info : 1x 100 uL
Vial Number: 22



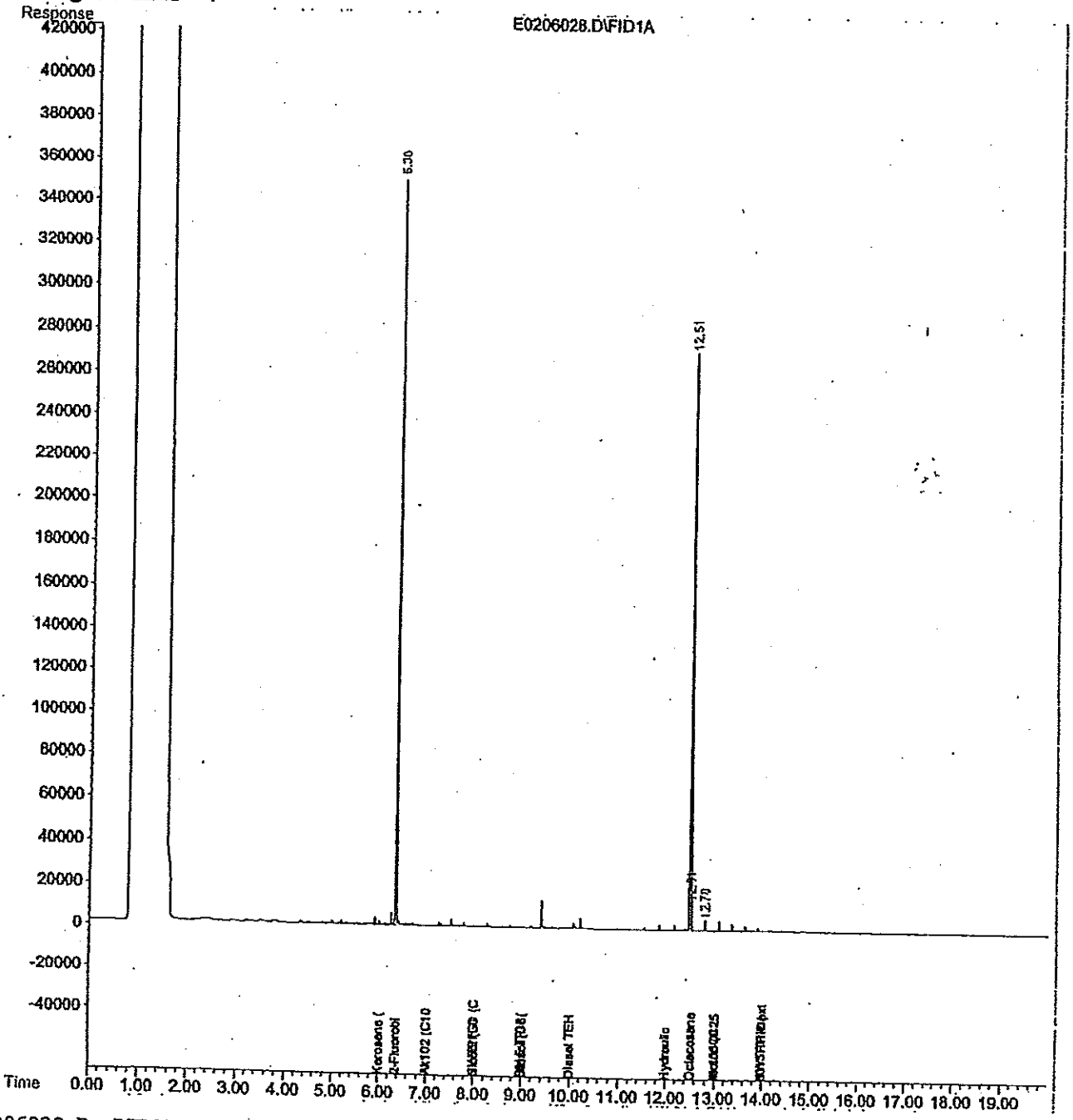
Quantitation Report

Data File : C:\HPCHEM\4\DATA\050206\E0206028.D
Acq On : 3 May 2006 4:46
Sample : bpd0657-20
Misc : 1x nwtph-dx sg soil
IntFile : TPH.E
Quant Time: May 3 9:43 2006 Quant Results File: RFD1506B.RES

Vial: 20
Operator: gsm
Inst : GC-1
Multiplr: 1.00

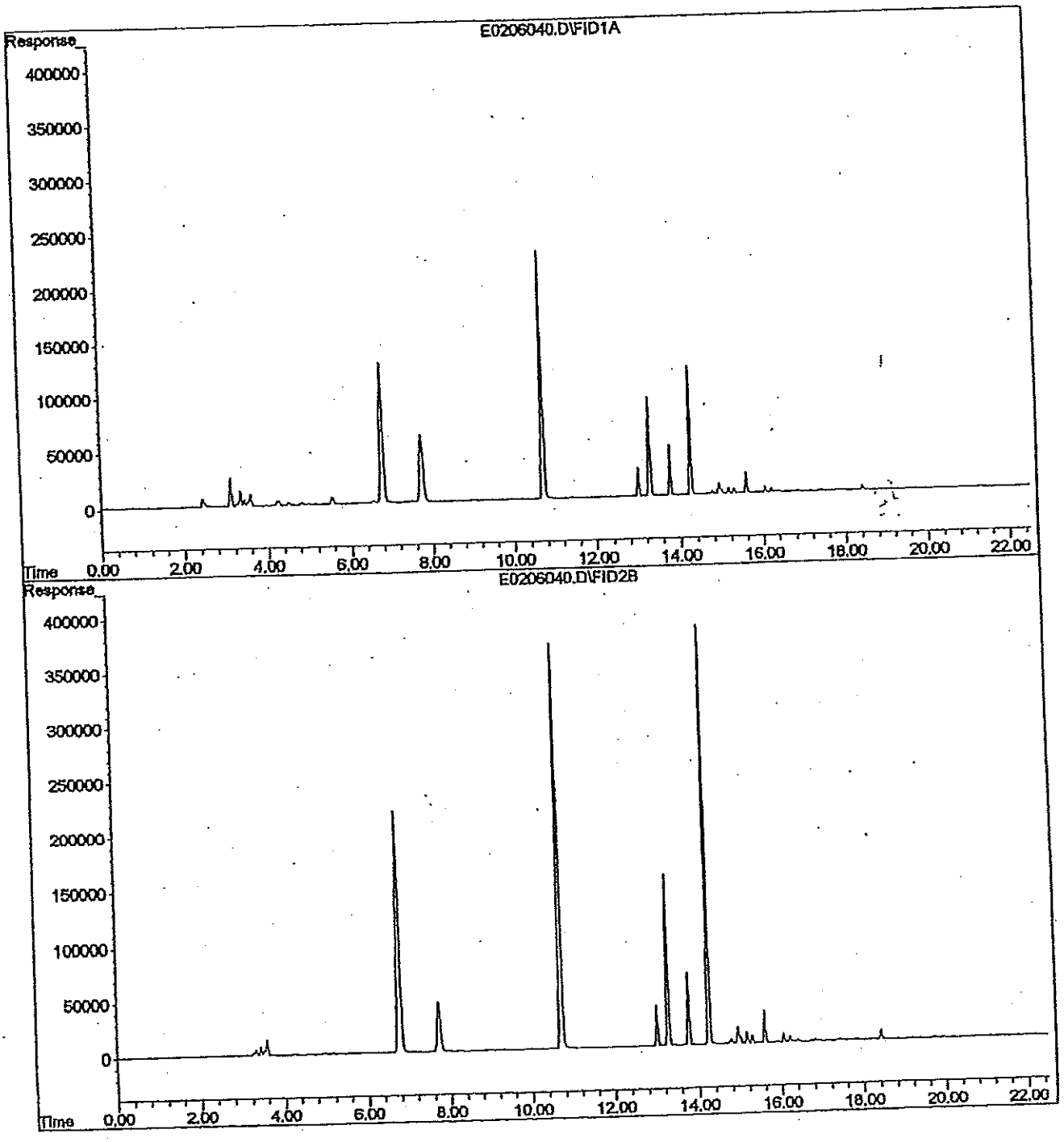
Quant Method : C:\HPCHEM\4\METHODS\RFD1506B.M (Chemstation Integrator)
Title : TPH-D Rear Method
Last Update : Tue May 02 11:20:49 2006
Response via : Multiple Level Calibration
DataAcq Meth : TPHF.M

Volume Inj. :
Signal Phase :
Signal Info :



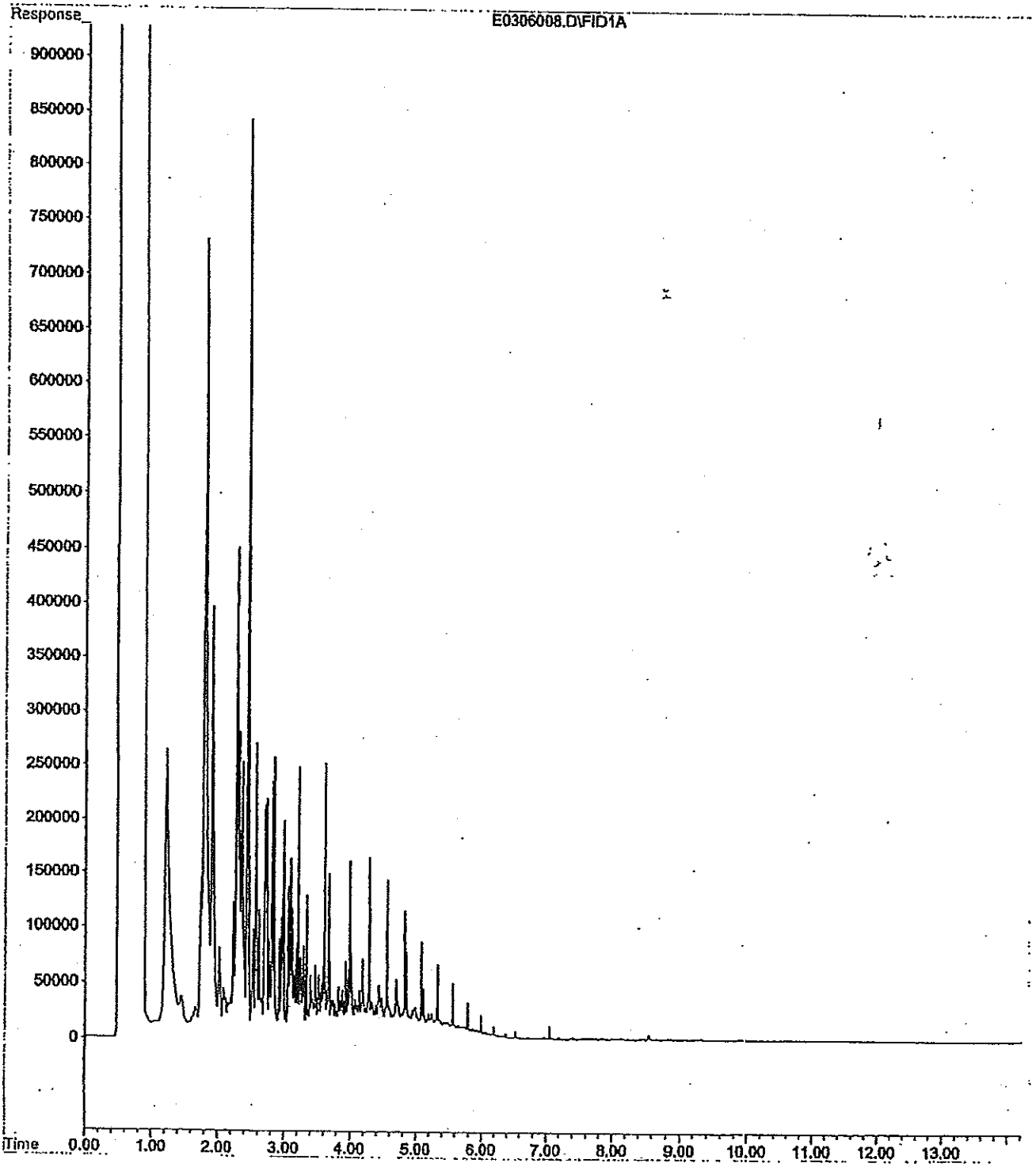
GW-GRO

File : D:\HPCHEM\4\DATA\050206\E0206040.D
Operator : nsb
Acquired : 3 May 2006 10:01 using AcqMethod TGC1806.M
Instrument : GC #8
Sample Name: bpd0657-~~1221~~ SKS 05/03/06
Misc Info : 500x 10 uL
Vial Number: 40



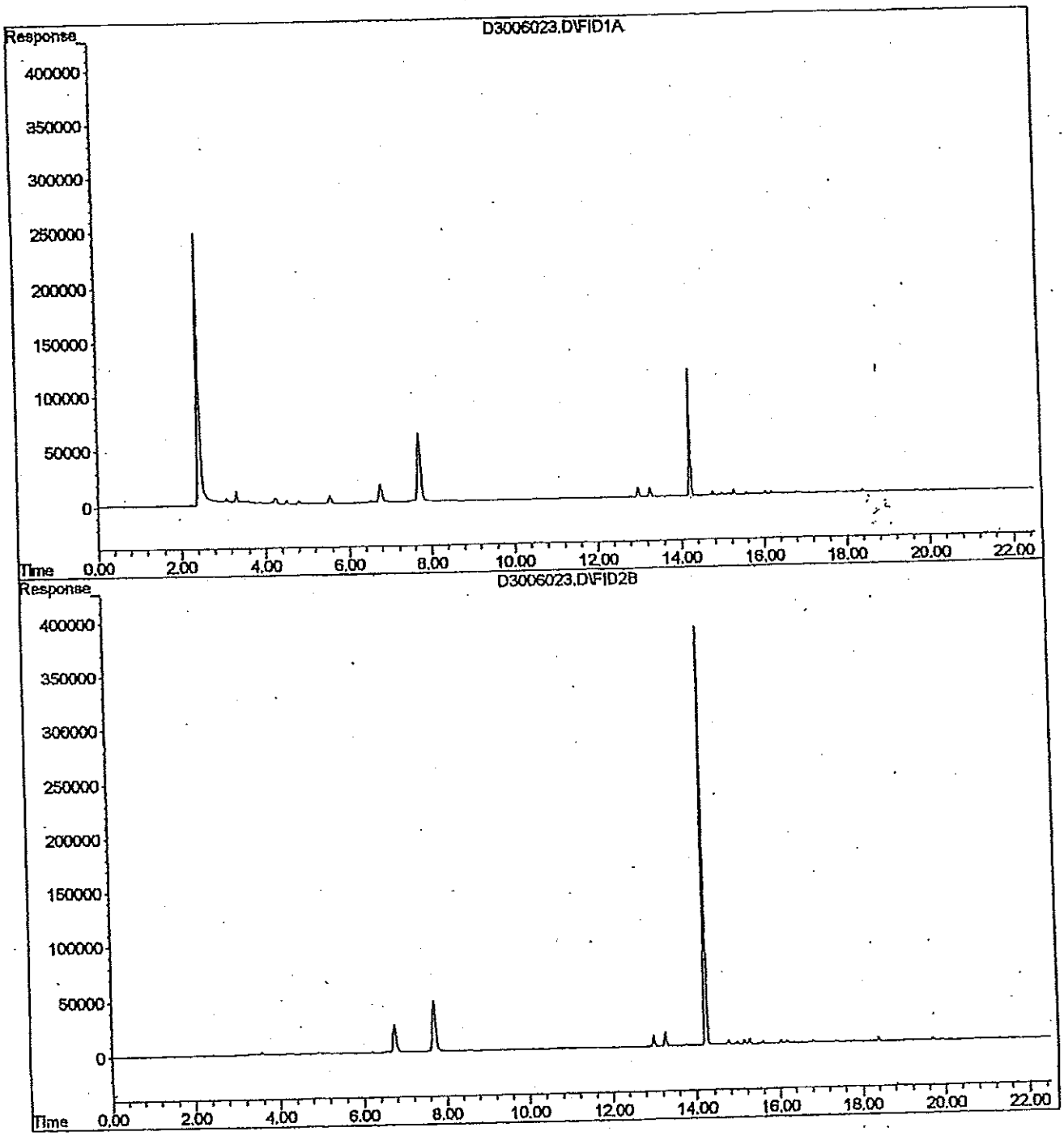
GF
GW-D

File : C:\HPCHEM\1\DATA\050306\E0306008.D
Operator : GSM
Acquired : 3 May 2006 11:55 using AcqMethod TPHF.M
Instrument : GC-7
Sample Name: bpd0657-21
Misc Info : 100x nwtph-dx water rs1
Vial Number: 4



GT-10
Soil-GRO

File : D:\HPCHEM\4\DATA\043006\D3006023.D
Operator : sks
Acquired : 1 May 2006 8:16 using AcqMethod TGC1806.M
Instrument : GC #8
Sample Name: BPD0657-22
Misc Info : 1x 100 uL
Vial Number: 23



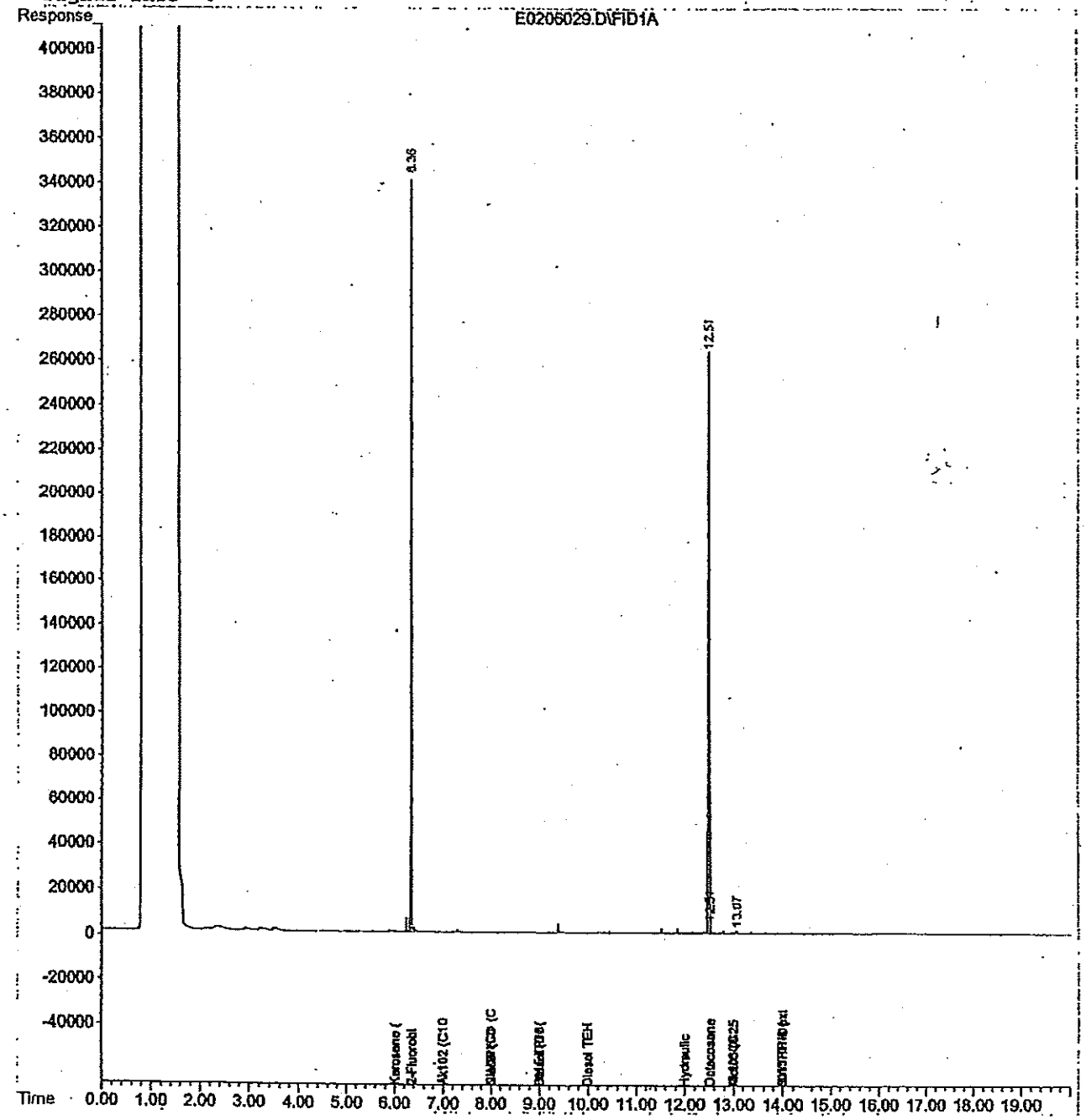
GC-1
Soil - DR

Quantitation Report

Data File : C:\HPCHEM\4\DATA\050206\E0206029.D Vial: 21
Acq On : 3 May 2006 5:15 Operator: gsm
Sample : bpd0657-22 Inst : GC-1
Misc : 1x nwtph-dx sg soil Multiplr: 1.00
IntFile : TPH.E
Quant Time: May 3 9:43 2006 Quant Results File: RFD1506B.RES

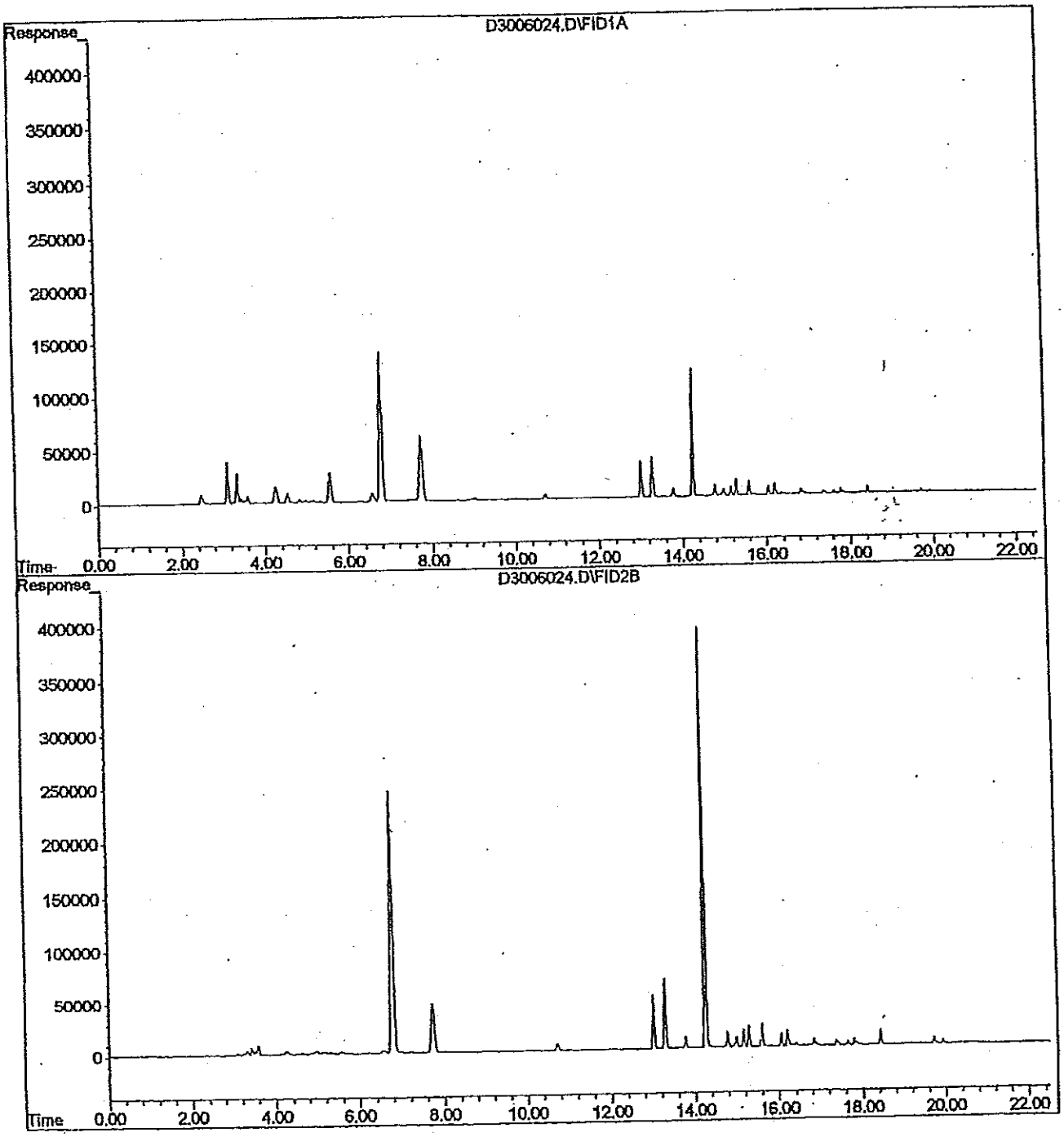
Quant Method : C:\HPCHEM\4\METHODS\RFD1506B.M (Chemstation Integrator)
Title : TPH-D Rear Method
Last Update : Tue May 02 11:20:49 2006
Response via : Multiple Level Calibration
DataAcq Meth : TPHF.M

Volume Inj. :
Signal Phase :
Signal Info :



GF-10
GW-GRO

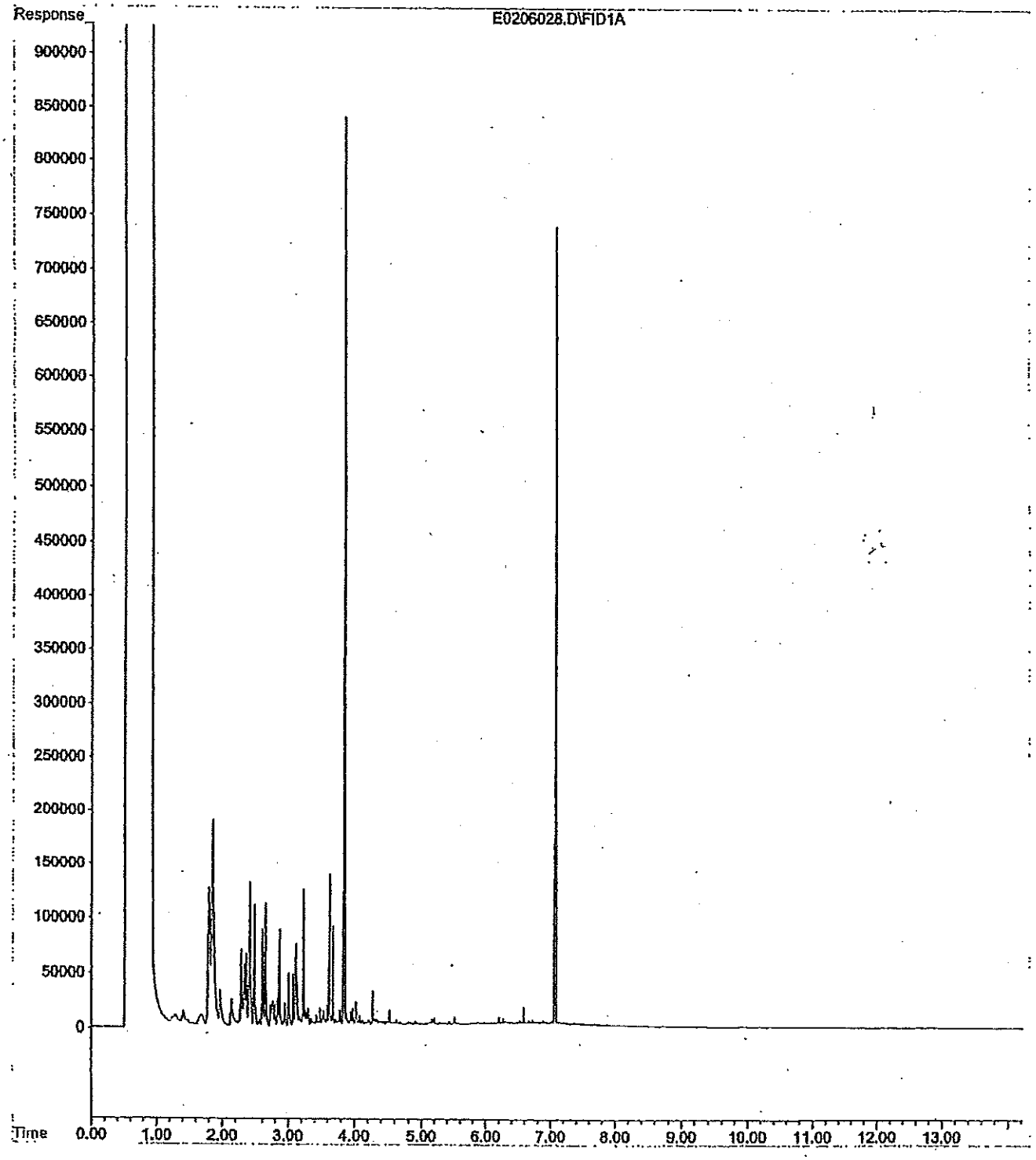
File : D:\HPCHEM\4\DATA\043006\D3006024.D
Operator : sks
Acquired : 1 May 2006 8:47 using AcqMethod TGC1806.M
Instrument : GC #8
Sample Name: BPD0657-23
Misc Info : 20x 250 uL
Vial Number: 24



GP-10

GW- DRO

File : C:\HPCHEM\1\DATA\050206\E0206028.D
Operator : REX
Acquired : 2 May 2006 21:05 using AcqMethod TPHF.M
Instrument : GC-7
Sample Name: BPD0657-23
Misc Info : 1X NWTPH-DX WATER
Vial Number: 19



Soil - DRO

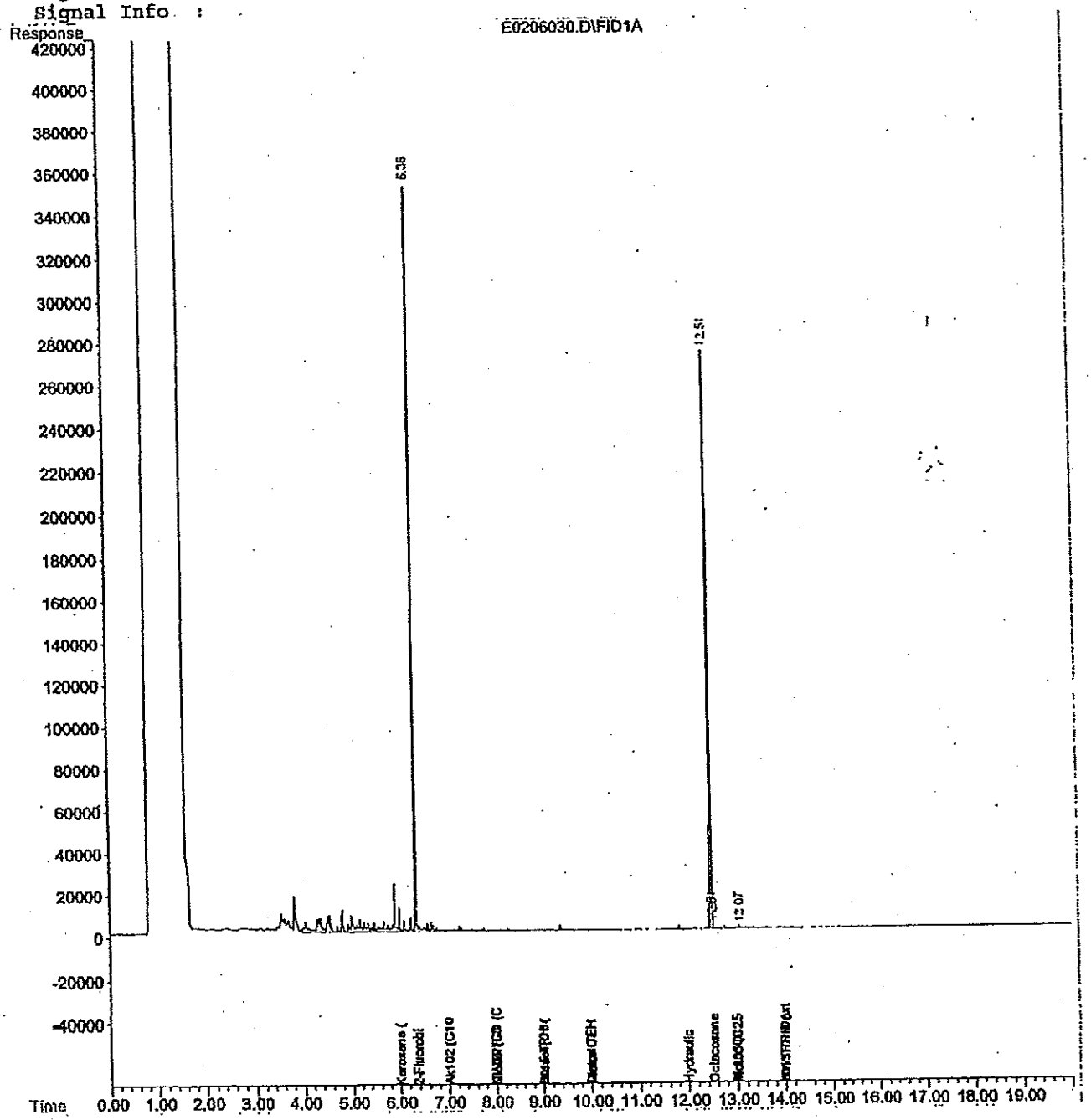
Quantitation Report

Data File : C:\HPCHEM\4\DATA\050206\E0206030.D
Acq On : 3 May 2006 5:44
Sample : bpd0657-24
Misc : 1x nwtph-dx sg soil
IntFile : TPH.E
Quant Time: May 3 9:43 2006 Quant Results File: RFD1506B.RES

Vial: 22
Operator: gsm
Inst : GC-1
Multiplr: 1.00

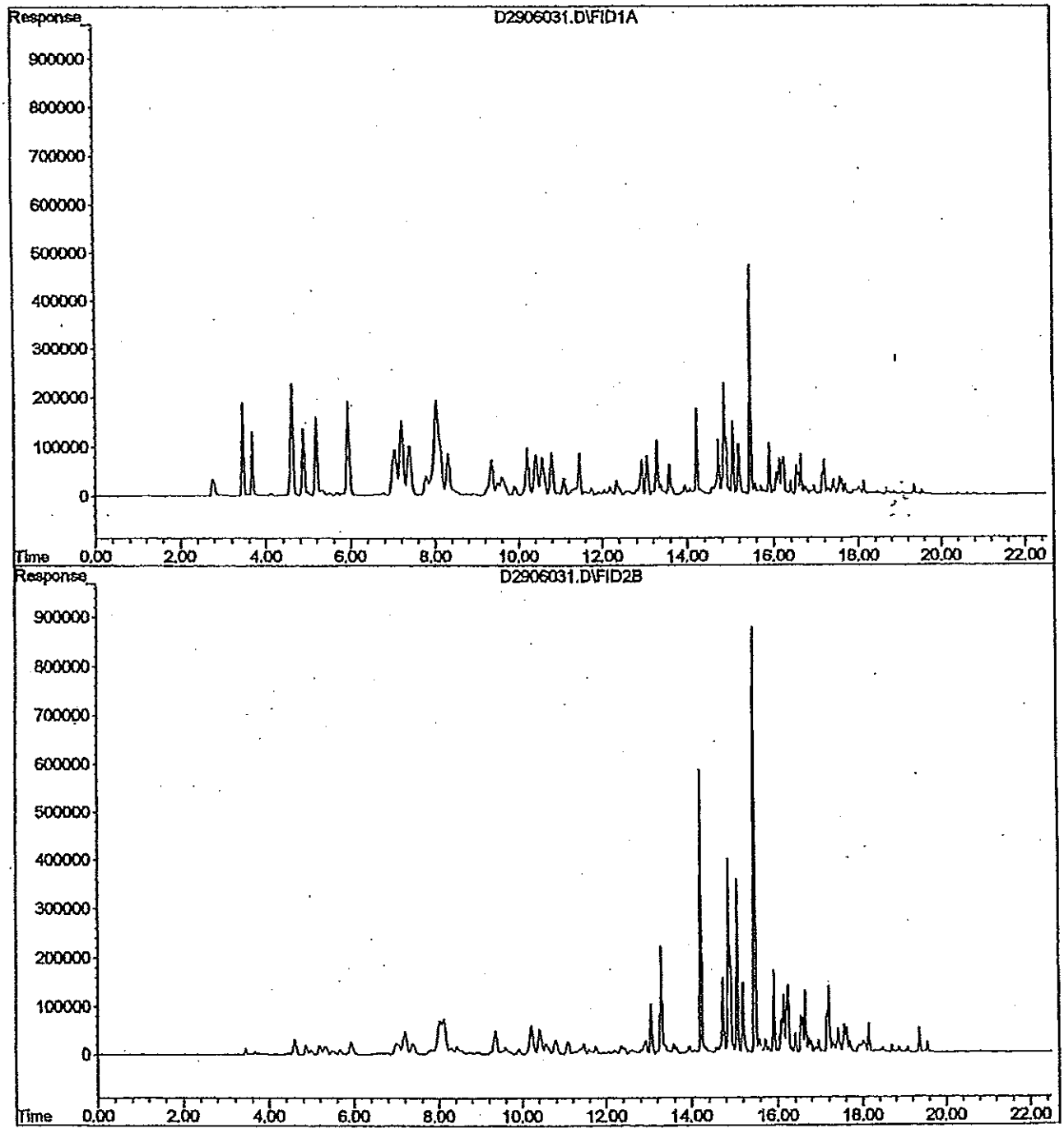
Quant Method : C:\HPCHEM\4\METHODS\RFD1506B.M (Chemstation Integrator)
Title : TPH-D Rear Method
Last Update : Tue May 02 11:20:49 2006
Response via : Multiple Level Calibration
DataAcq Meth : TPHF.M

Volume Inj. :
Signal Phase :
Signal Info :



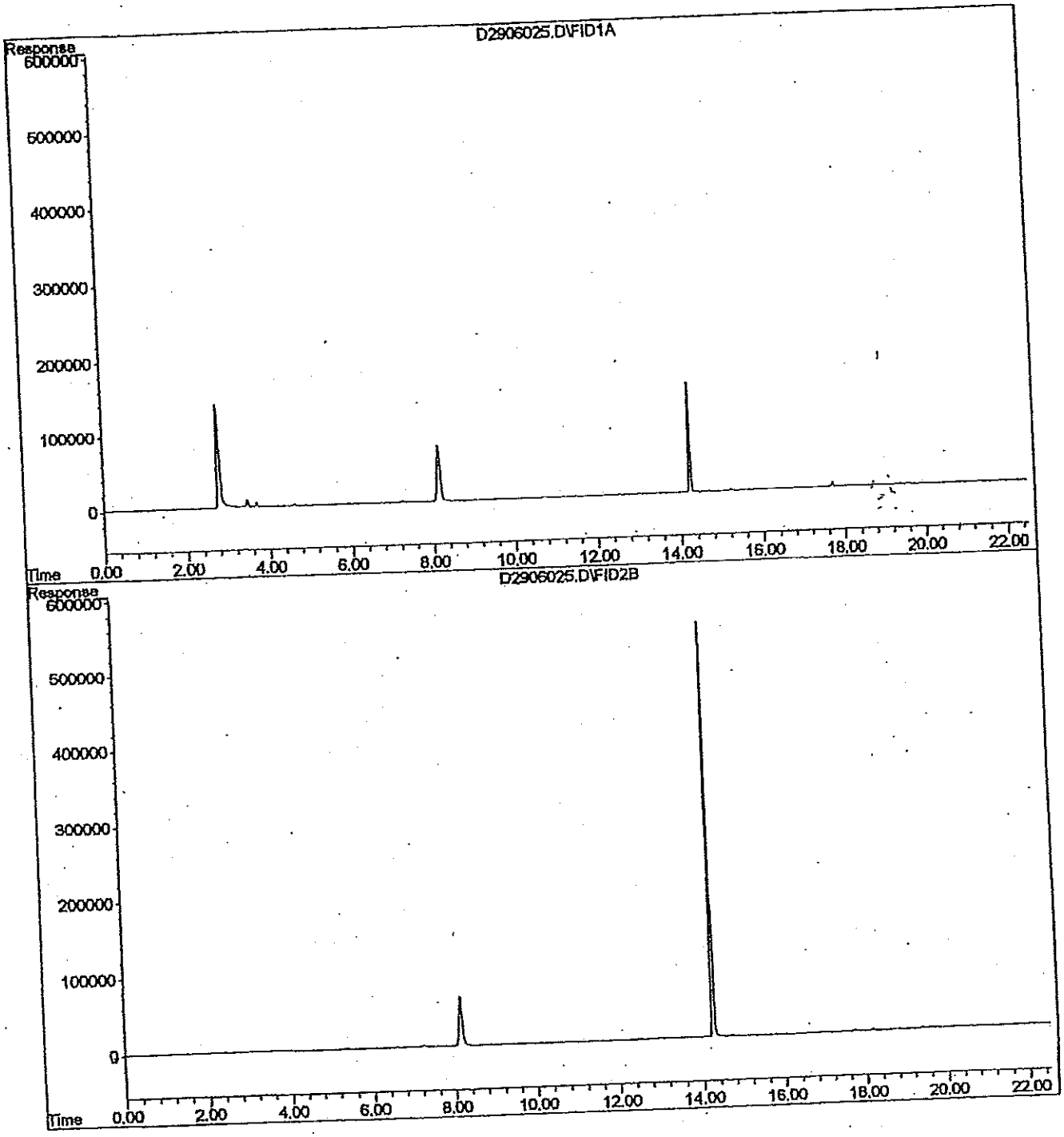
GP-
soil- GRO

File : D:\HPCHEM\3\DATA\042906\D2906031.D
Operator : sks
Acquired : 30 Apr 2006 8:51 using AcqMethod TGC1506.M
Instrument : GC #6
Sample Name: bpd0657-24
Misc Info : 5x 20 uL
Vial Number: 31



6f-12
Soil GRO

File : D:\HPCHEM\3\DATA\042906\D2906025.D
Operator : sks
Acquired : 30 Apr 2006 5:46 using AcqMethod TGC1506.M
Instrument : GC #6
Sample Name: bpd0657-25
Misc Info : 1x 100 uL
Vial Number: 25



5016 DR

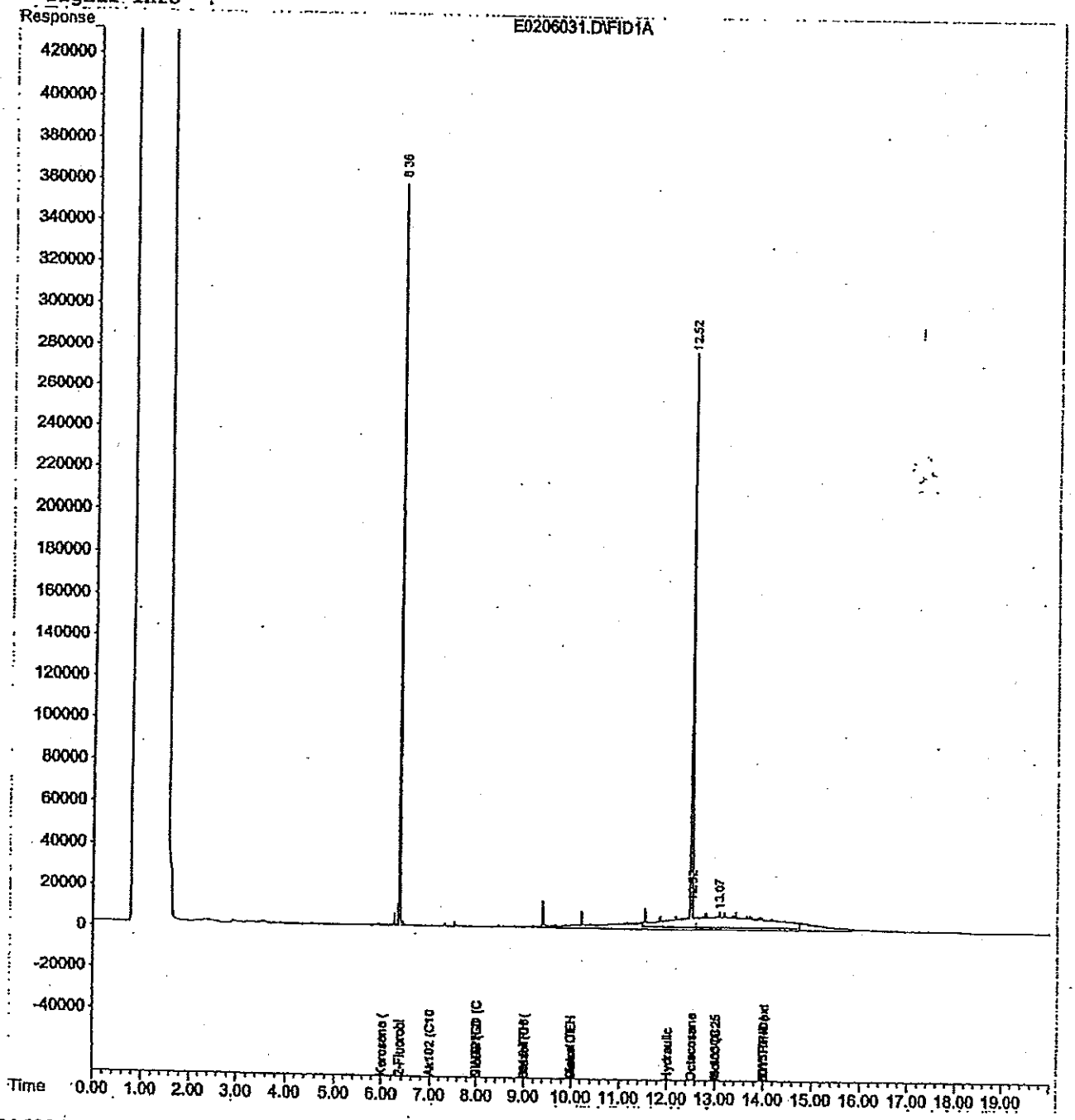
Quantitation Report

Data File : C:\HPCHEM\4\DATA\050206\E0206031.D
Acq On : 3 May 2006 6:13
Sample : bpd0657-25
Misc : 1x nwtph-dx sg soil
IntFile : TPH.E
Quant Time: May 3 9:43 2006 Quant Results File: RFD1506B.RES

Vial: 23
Operator: gsm
Inst : GC-1
Multiplr: 1.00

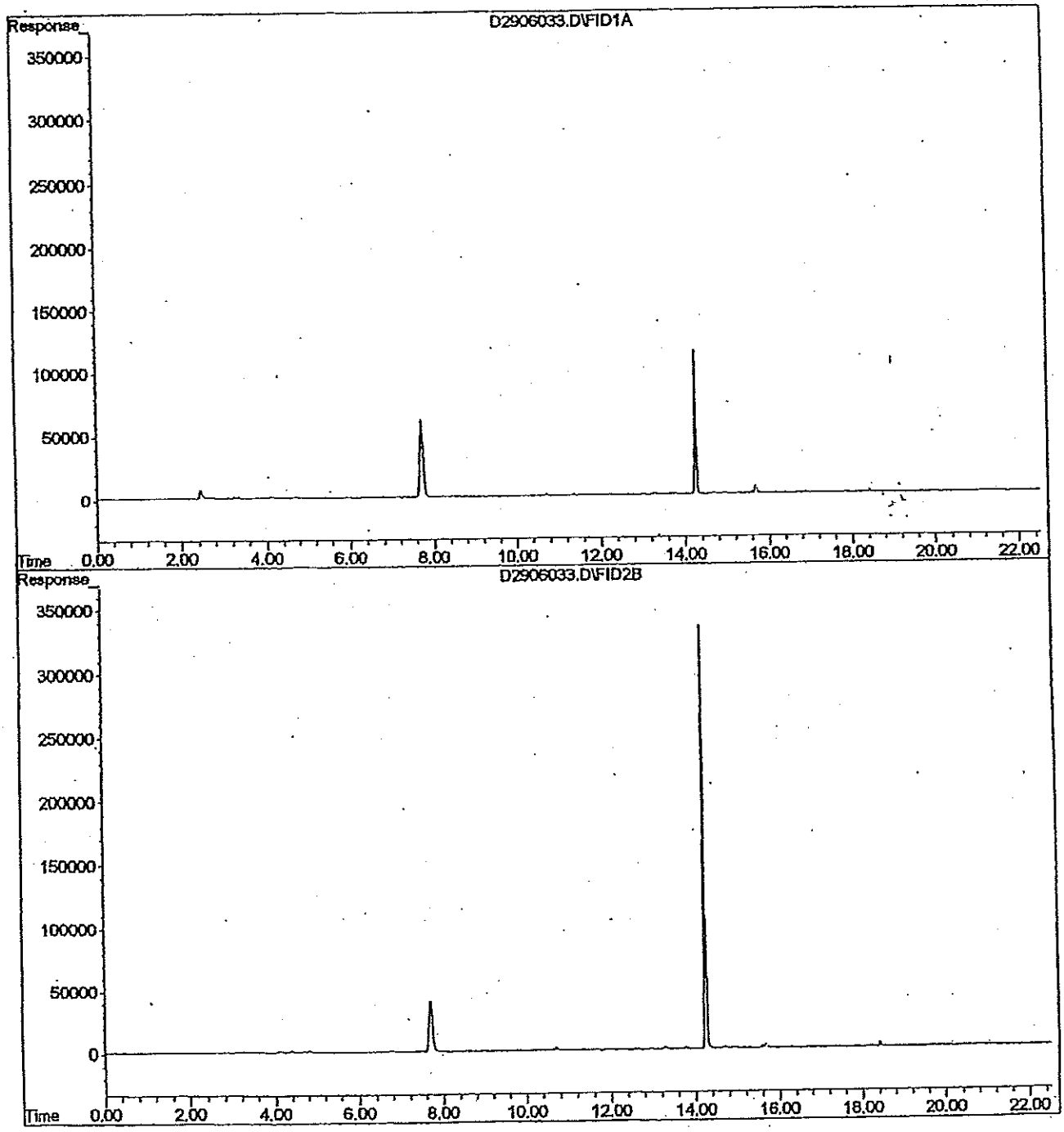
Quant Method : C:\HPCHEM\4\METHODS\RFD1506B.M (Chemstation Integrator)
Title : TPH-D Rear Method
Last Update : Tue May 02 11:20:49 2006
Response via : Multiple Level Calibration
DataAcq Meth : TPHF.M

Volume Inj. :
Signal Phase :
Signal Info :



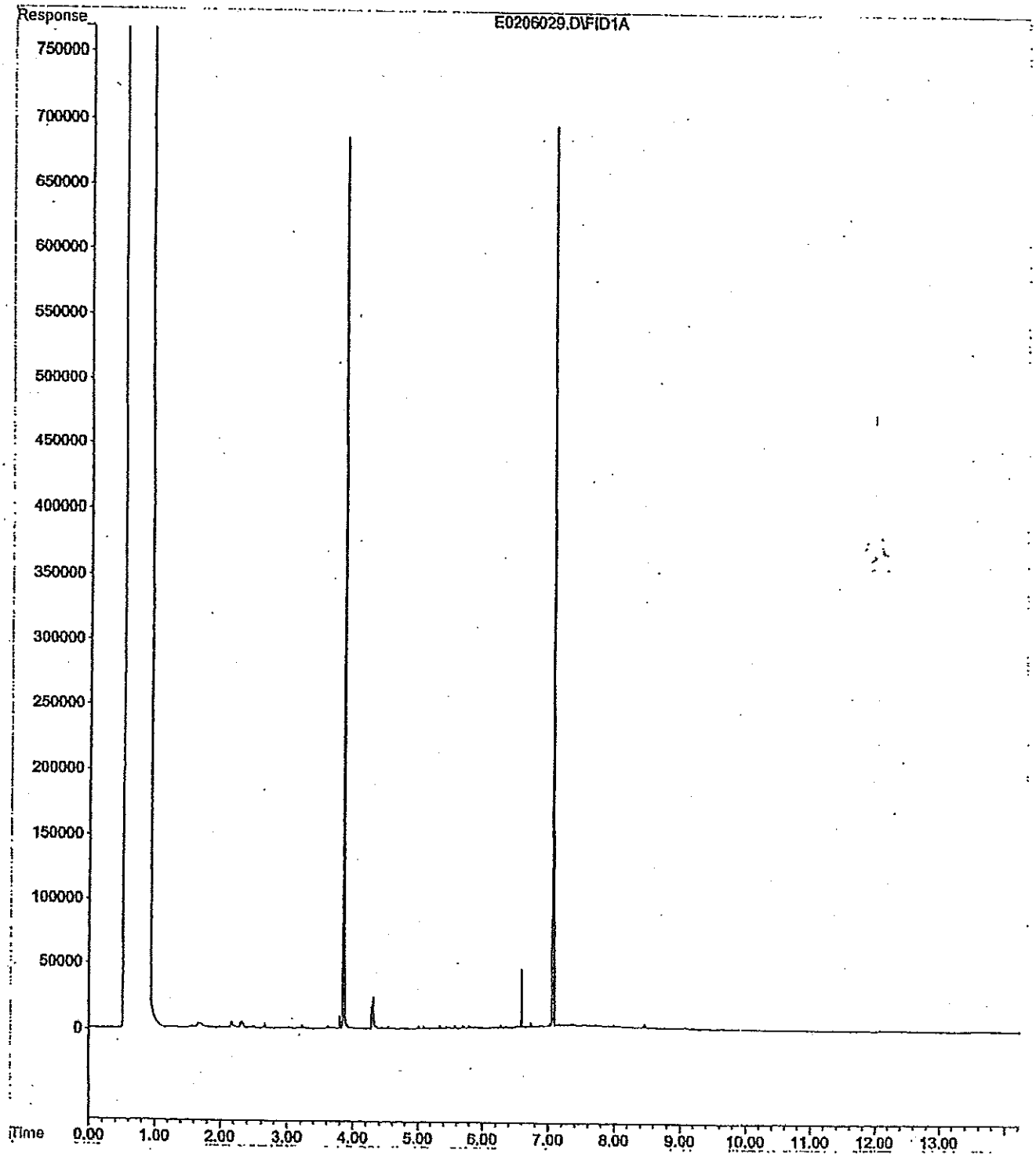
GW - GRO

File : D:\HPCHEM\4\DATA\042906\D2906033.D
Operator : sks
Acquired : 30 Apr 2006 10:13 using AcqMethod TGC1806.M
Instrument : GC #8
Sample Name: bpd0657-27
Misc Info : 1x 5 mL
Vial Number: 33



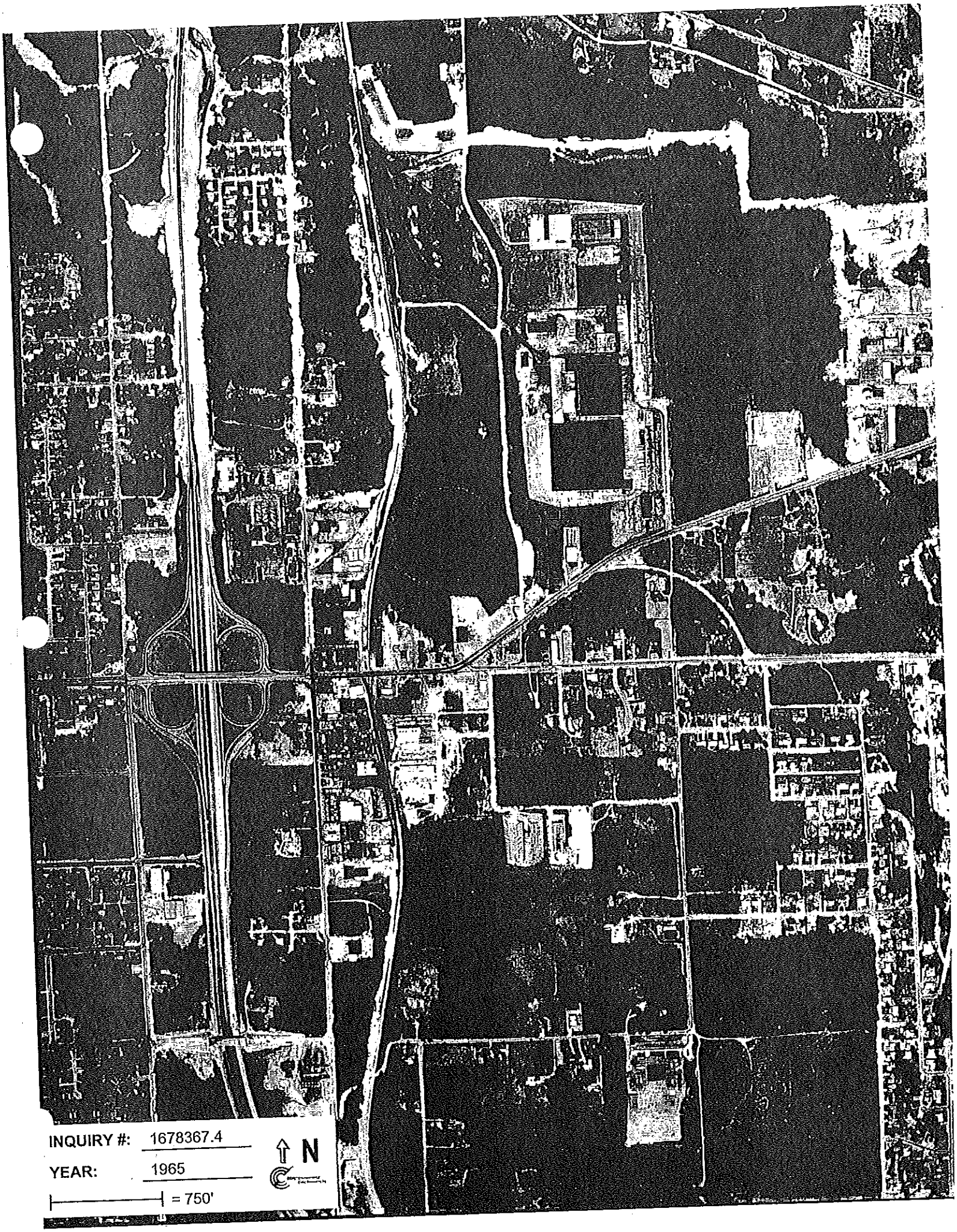
GW-D1

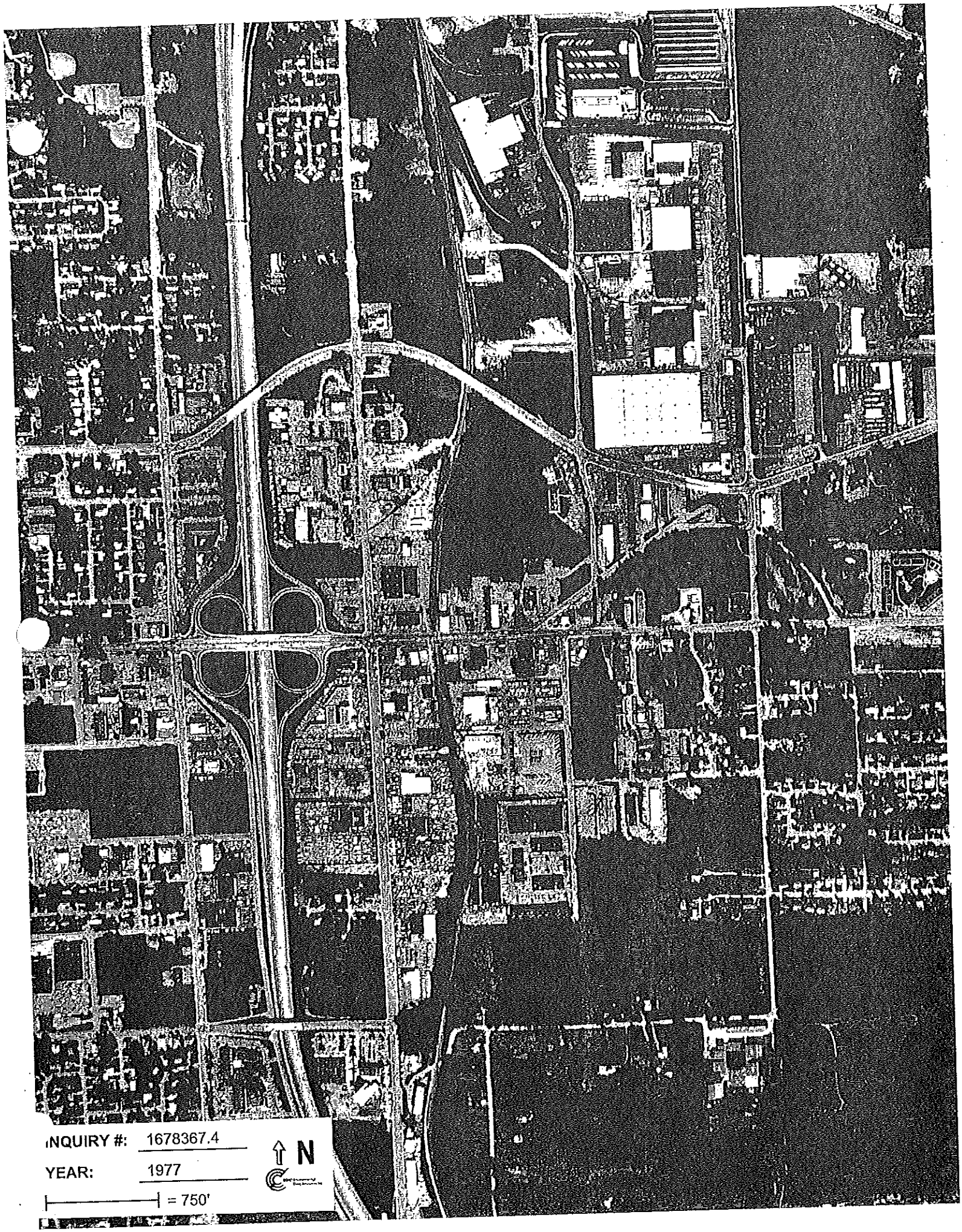
File : C:\HPCHEM\1\DATA\050206\E0206029.D
Operator : REX
Acquired : 2 May 2006 21:20 using AcqMethod TPHF.M
Instrument : GC-7
Sample Name: BPD0657-27
Misc Info : 1X NWTPH-DX WATER
Vial Number: 20

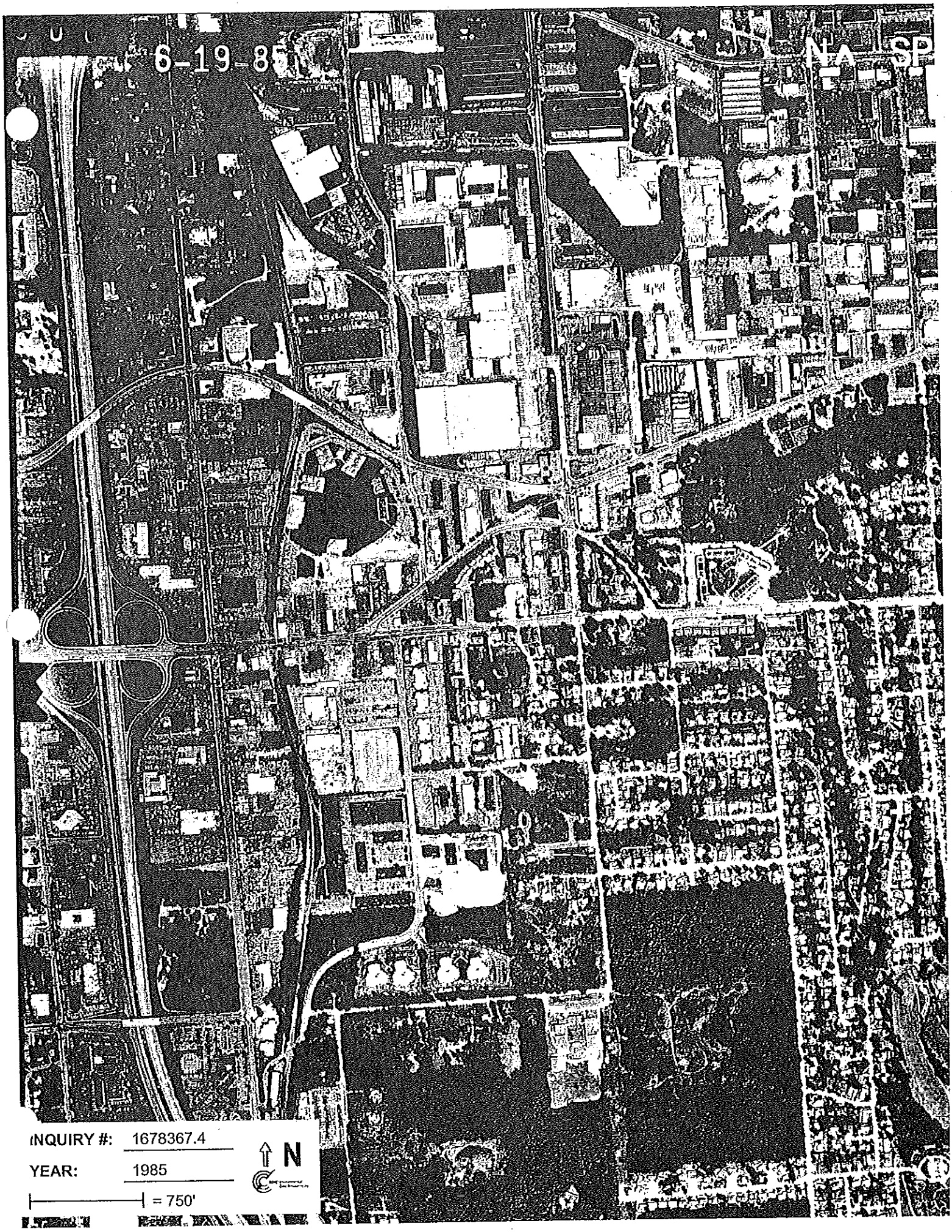


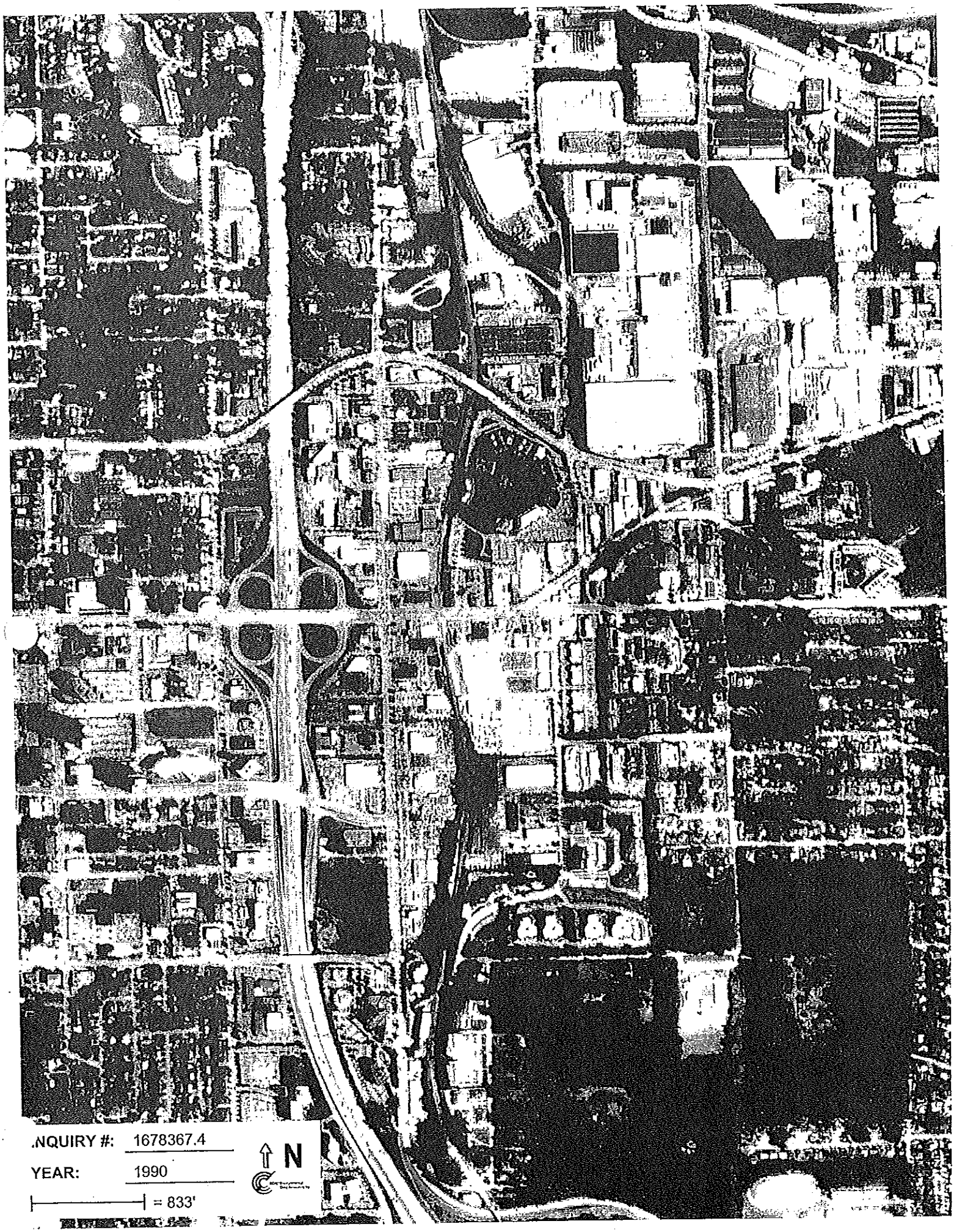
ATTACHMENT D

HISTORICAL AIR PHOTOS


INQUIRY #: 1678367.4
YEAR: 1965
= 750'
N

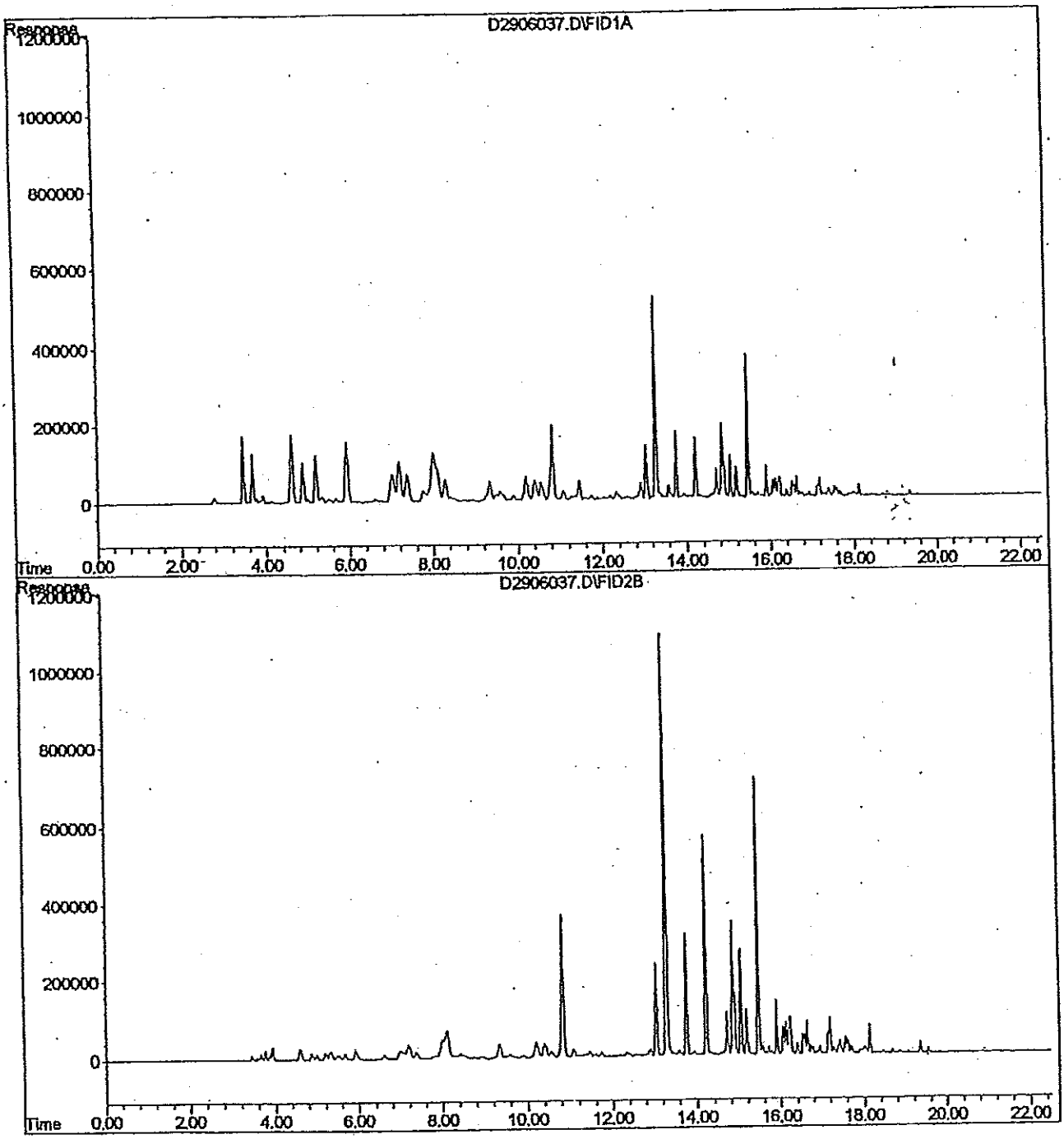

INQUIRY #: 1678367.4
YEAR: 1977
= 750'
N


6-19-85
N
INQUIRY #: 1678367.4
YEAR: 1985
= 750'
N


.NQUIRY #: 1678367.4
YEAR: 1990
= 833'
N

GP-6
Soil - GRO

File : D:\HPCHEM\3\DATA\042906\D2906037.D
Operator : sks
Acquired : 30 Apr 2006 11:56 using AcqMethod TGC1506.M
Instrument : GC #6
Sample Name: bpd0657-10
Misc Info : 20x 5 uL
Vial Number: 37



GP-6
Soil - DRO

Quantitation Report

Data File : C:\HPCHEM\4\DATA\050206\E0206020.D Vial: 13
Acq On : 3 May 2006 00:54 Operator: gsm
Sample : bpd0657-10 Inst : GC-1
Misc : 1x nwtph-dx soil Multiplr: 1.00
IntFile : TPH.E
Quant Time: May 3 9:42 2006 Quant Results File: RFD1506B.RES

Quant Method : C:\HPCHEM\4\METHODS\RFD1506B.M (Chemstation Integrator)
Title : TPH-D Rear Method
Last Update : Tue May 02 11:20:49 2006
Response via : Multiple Level Calibration
DataAcq Meth : TPHF.M

Volume Inj. :
Signal Phase :
Signal Info :