

Woodward-Clyde

Engineering & sciences applied to the earth & its environment

September 11, 1997

961163NA

97 SEP 11 PM 4:20
ENVIRONMENTAL
PROTECTION

Ms. Madhulla Logan
Hazardous Materials Specialist
Alameda County Department of Environmental Health
1131 Harbor Bay Parkway
Alameda, California 94503

Subject: Addendum to the July 1, 1997 Risk Management Plan for Soil Impacted by TPH-motor oil Alameda Belt Line Site and Encinal Real Estate Site, Alameda, California

On behalf of Encinal Real Estate, Inc., Woodward-Clyde is pleased to submit this Addendum to the Risk Management Plan (RMP) for on-site management of Total Petroleum Hydrocarbons as motor oil (TPH-motor oil) impacted soil at both the Alameda Belt Line site and the Encinal Real Estate site in Alameda, California. This Addendum provides the results of supplemental soil sampling and analyses for TPH-motor oil. The results of sampling and analyses support a modification of the understanding of the distribution of TPH-motor oil in soil at the site exceeding the 1,000 mg/kg criteria for on-site soil management.

Description of Supplemental Soil Sampling Activities

As shown on the attached Figure 4A, ten exploration pits were excavated at accessible locations on the site where laboratory analyses of previous exploration borings and shallow soil samples reported greater than 1,000 mg/kg of TPH-motor oil. The pits were excavated at previous exploration locations; S-1, S-3, S-4, S-6, SS-5, SS-8, B1, G-10, G-14, and G-15. The pits were identified with the addition of an "A" to the locations as shown on the attached pit logs. The pits were observed by Albert Ridley, engineering geologist, who also collected samples and prepared logs describing the soils encountered and sample locations. Logs are attached. Soil samples were collected in glass jars, were labeled and placed in an ice chest and transported to ITS Laboratories for analysis for TPH diesel and motor oil.

Results of Study

Exploratory pits S-3A and S-4A, located in the southern part of the site near Sherman Street exposed tan sand and clay fill material below a layer of crushed asphaltic concrete debris. The debris layer is about 6-inches thick. As shown on Table 1 the laboratory reported 8,600 mg/kg TPH-motor oil for the asphaltic concrete layer, using EPA 8015 analysis. The laboratory reported only 250 mg/kg TPH-motor oil in soil sample S3A-1 from a depth of 1/2 to 1 foot in pit S-3A, and only 130 mg/kg TPH-motor oil in sample S4A-2 at a depth of 3/4 to 1 foot. The soil samples in the area of these two pits,



therefore, appear to have reported TPH-motor oil below the 1,000 mg/kg criteria for on-site management. The reported 8,600 mg/kg TPH -motor oil in the said asphaltic concrete is believed to represent a fraction of asphalt rather than evidence of motor oil. The layer of asphaltic concrete covers about one-acre, see Figure 4A, and is planned to be disposed at a landfill as construction debris during site cleanup. We will provide results of confirmation sampling following completion of cleanup.

Pits B1-A, S1-A, and S6-A were located in southern part of the site in an area of rubble fill material. This fill material contains pieces of asphaltic concrete and concrete as shown on the attached pit logs. As shown on attached logs the fill material ranges from about 1 to 3 feet in thickness and is underlain by fine sand and dark gray clay soil. The laboratory reports 190 mg/kg TPH-motor oil in sample B1A-1, 260 mg/kg TPH-motor oil in sample S1A-1, and 66 mg/kg TPH-motor oil in sample S6A-1 (Table 1). Because the concentrations of TPH-motor oil sample do not exceed the 1,000 mg/kg criteria for on-site management no management of this fill material is required.

Pits SS5-A and SS8-A were located at the north end of the site, as shown in Figure 4A. The pit logs show a brown sandy clay, with angular gravel and asphaltic concrete debris up to about 2-inches in diameter, occurs to a depth of from 1 to 2 feet. This fill layer is underlain by dark gray clayey sand and brown and gray silty clay. The laboratory reports only 81 mg/kg TPH-motor oil in sample SS5A1, at a depth of 1 to 1 and 1/2 feet, and 620 mg/kg TPH-motor oil in sample SS8A-1 at a depth of 1/2 to 1 foot. No management of soil in this area is required because the concentrations of TPH-motor oil do not exceed the 1,000 mg/kg criteria for on-site soil management.

Three additional pits were excavated inside the warehouse (G-10A) and along the edge of the site west of the warehouse (G14-A, and G15-A). The log of Pit G10-A shows a 6-inch thick asphaltic concrete pavement layer overlying about 3 feet of light brown sandy gravelly clay fill material. No TPH-motor oil was reported above the reporting limit of 10 mg/kg in soil sample G-10A-1 at a depth of 1 to 1 and 1/2 feet.

The laboratory reported 678 mg/kg TPH-motor oil in a 3-inch thick layer of gravelly sand(G-14A-1) immediately below the asphaltic concrete pavement in pit G14-A. This layer also had an observable petroleum odor. 366 mg/kg TPH-motor oil is reported for soil sample G-14A-2 at a depth of 1 to 1 and 1/4 feet. No management of soil in this area is required since the reported TPH-motor oil concentrations are less than the 1,000 mg/kg criteria.

The laboratory reports 1,620 mg/kg TPH-motor oil in soil sample G-15A-1 in a 6-inch thick gravelly clay layer immediately below the asphaltic concrete pavement in pit G-15A. A petroleum odor was observed in this layer. No TPH-motor oil was detected above the 10 mg/kg reporting limit in soil sample G-15A-2 from a depth of 2 to 2 and 1/2 feet in a fine gray clayey sand fill material. Due to inconclusive evaluation by the laboratory of chromatograms, to separate asphalt from motor oil, the 6-inch thick soil layer with a concentration of TPH-motor oil will require management since TPH-motor oil exceeds the 1,000 mg/kg criteria. An approximate area extending about 1/2 the distance to the nearest exploration location from pit G-15A is evaluated as an area that

extends less than previously shown on Figure 4 in the Risk Management Plan. Additional soil sampling may show that the extent of soil requiring on-site management is less than shown on the attached Figure 4A.

Areas near former exploration locations G-1 and SS-2 were not explored because a concrete slab was encountered below the asphaltic concrete pavement in those areas. Therefore, the previously shown area of soil with TPH-motor oil exceeding the 1,000 mg/kg criteria remains on Figure 4A. Additional soil sampling beneath the pavement in this area could further delineate the extent of soil with TPH-motor oil. However, since this area is currently covered by 6-inches of concrete and overlying asphaltic concrete pavement, and if the paving remains in place, no soil management may be required.

Conclusions


Based upon the supplemental soil exploration and laboratory results it is our opinion that the extent of soil with TPH-motor oil exceeding the 1,000 mg/kg criteria and requiring on-site management is less than previously shown on Figure 4 in the Risk Management Plan. The recent exploration and laboratory results support the presence of TPH-motor oil in soil exceeding the 1,000 mg/kg criteria in the areas as shown in the attached Figure 4A. Further exploration, soil sampling and laboratory analyses for TPH-motor oil could further delineate the extent of soils requiring on-site management.


Recommendations

Except for the areas of G-1, SS-2, and G15A, on-site management of soil for TPH motor oil is not required. We recommend that further confirmation soil sampling and analyses be performed in the area of G15A, as shown on Figure 4A with TPH-motor oil near G15A exceeding 1,000 mg/kg to delineate soil with TPH-motor oil. The sampling will be performed as soon as possible. If the pavement and concrete slab in the vicinity of G-1 and SS-2 is removed, then soil sampling to evaluate the extent of TPH in soil can be performed as part of on-site soil management. The recommended sampling activities should not delay site development.

Please consider this Addendum during your review of the Risk Management Plan. Please call if you have any questions.

Sincerely,

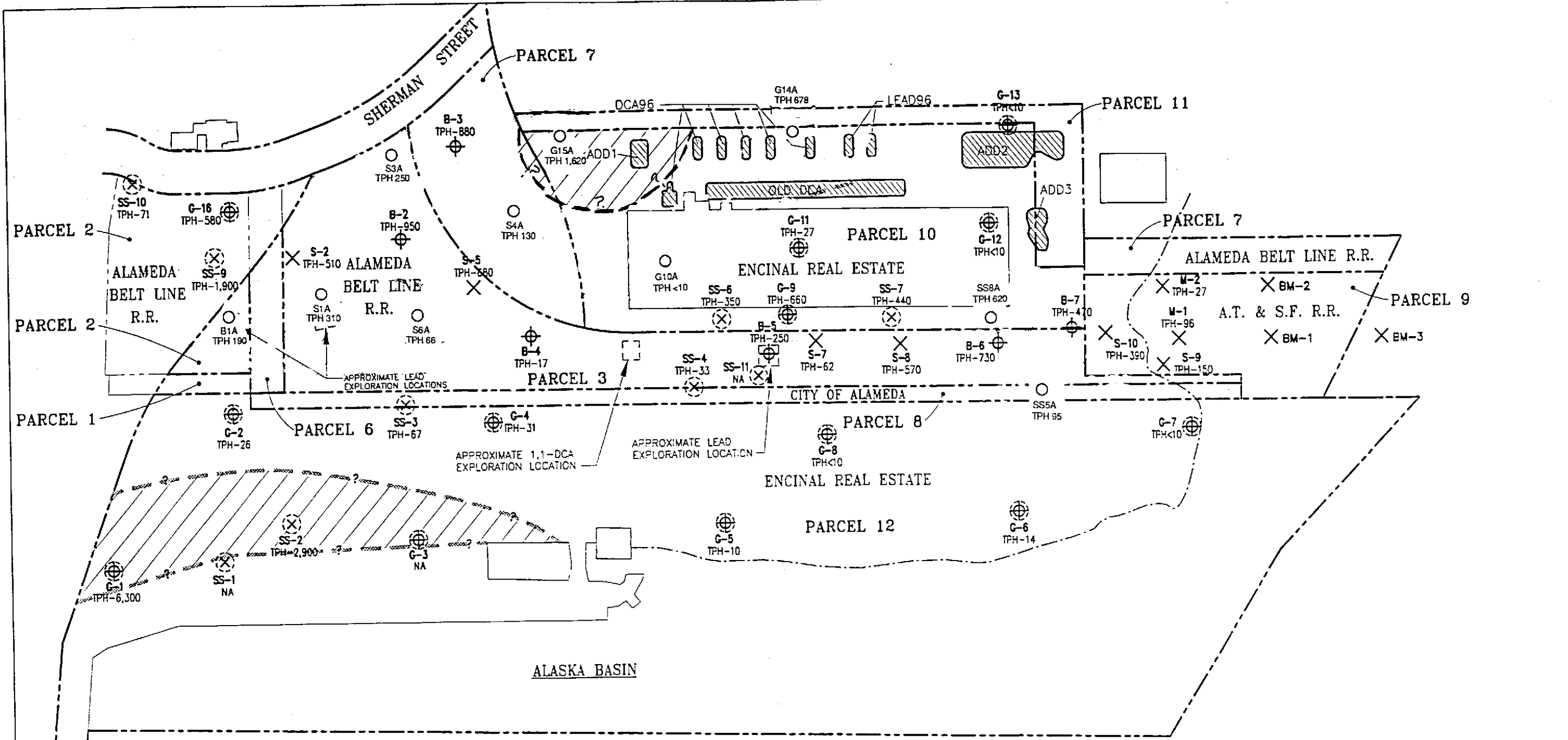

Albert P. Ridley, CEG
Project Manager


Marco C. Lobascio, PE, REA
Assistant Project Manager

Attachments: Table 1-Summary of TPH Diesel and Motor Oil in Soil
Figure 1- Supplemental TPH Motor Oil Sampling Results
Field Logs of Exploratory Pits
Laboratory Reports

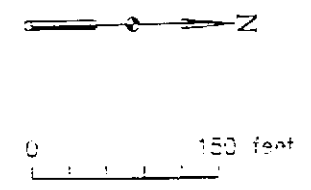
TABLE 1 - SUMMARY OF TPH DIESEL AND MOTOR OIL IN SOIL
Alameda Beltline and Encinal Real Estate Sites

| Figure 4 | | | Aug. '97 Results in MG/KG | |
|----------|---------|----------------|---------------------------|---------------|
| Location | Sampled | Depth in feet | THP Diesel | TPH Motor Oil |
| B1 | B1A-1 | 1/4 to 1/2 | <100 | 190 |
| B1 | B1A-2 | 1 1/2 to 2 | <10 | <10 |
| S-1 | S1A-1 | 1/2 to 1 | <100 | 260 |
| S-1 | S1A-2 | 1 1/2 to 2 3/4 | <100 | 310 |
| S-3 | S3A-1 | 3/4 to 1 | <100 | 250 |
| S-3 | S3A-2 | 1 1/2 to 2 | <10 | 21 |
| S-4 | S4A-1 | 0 to 1/2 | <10 | 8,600 |
| S-4 | S4A-2 | 3/4 to 1 | <50 | 130 |
| S-4 | S4A-3 | 2 to 2 1/4 | <10 | <10 |
| SS-5 | SS5A-1 | 1 to 1 1/2 | <20 | 81 |
| SS-5 | SS5A-2 | 2 to 2 1/2 | <50 | 95 |
| S-6 | S6A-1 | 1/2 to 1 | <20 | 66 |
| SS-8 | SS8A-1 | 1/2 to 1 | <200 | 620 |
| G-10 | G-10A-1 | 1 to 1 1/2 | <10 | <10 |
| G-14 | G-14A-1 | 1/4 to 1/2 | <10 | 678 |
| G-14 | G-14A-2 | 1 to 1 1/4 | <10 | 366 |
| G-15 | G-15A-1 | 1 to 1 1/2 | <50 | 1,620 |
| G-15 | G-15A-2 | 2 to 2 1/2 | <10 | <10 |



LEGEND

| Investigation, January 1997 | | Previous Investigation, 1996 | | Supplemental Investigation, August 1997 | |
|-----------------------------|----------------------------|------------------------------|--------------------------------------|---|---|
| | G-5 Geoprobe location | | B-1 Soil boring with water elevation | | Exploratory Pit |
| | SS-2 Shallow soil location | | S-1 Shallow soil sample | | S6A |
| | Stockpiles | | M-1 Shoreline sediment | | TPH 700 Concentration of TPH Motor oil in Mg/kg |
| | TPH Motor oil >1,000mg/kg | | BM-1 Bottom sediment | | |



| | | | |
|----------------------------|---------------------|--|--------------|
| Project No. 961163NA | Encinal Real Estate | SUPPLEMENTAL TPH MOTOR OIL SOIL SAMPLING RESULTS | Figure 4A |
| Woodward-Clyde Consultants | | | |

ENC-08 040897

Project: Encinal Terminals
 Project Number: 761163NB
 Location: ABL Property

Log of BIA

| | | | | |
|--------------------------------------|--------------------------------|---------------------------------|----------------------------|----------------------------|
| Date(s) Drilled: 4/5/97 | Total Depth Drilled (feet): | Top of Casing Elevation (feet): | Groundwater Level (feet): | First Completion 24 Hours: |
| Logged by: A. Ridley | Checked by: | Diameter of Hole (inches): | Diameter of Well (inches): | Number of Samples: |
| Drilling Company: RSI | Drilling Method: Backhoe | Drill Rig Type: | Disturbed: | Undisturbed: |
| Sampler Type: Grab | Drill Bit Size: 12 INCH bucket | Type of Well Casing: | Screen Perforation: | |
| Type of Seals: | | Type of Sand Pack: | | |
| Comments: At location B1 on Figure 4 | | | | |

| Depth, feet | Elevation, feet | SAMPLES | | | USCS Classification | Graphic Log | MATERIAL DESCRIPTION | Well Completion Log | HNU (ppm) | REMARKS |
|-------------|-----------------|----------|--------|------------|---------------------|-------------|---|---------------------|-----------|--------------------|
| | | Recovery | Sample | Blows/foot | | | | | | |
| 0 | BIA-1 | X | | 12 | SPH 190 | | Brown clayey sand with Gravel, 1" dia, dry Hard, Fill | | | No Petroleum odors |
| 1' | | | | | | | Tan fine sand with clay layers, medium dense, Fill | | | |
| 2' | BIA-2 | X | | | <10 | | | | | |
| 3' | | | | | | | | | | |

Project: Encinal Terminal
 Project Number: 961163NA
 Location: ABL Parcel

Log of SIA

| | | | | | | | | | | | |
|--------------------|-----------------------------|----------------------------|------------|--------------------------------|------------------|---------------------------|---|-------------------|---|-----------|-------------|
| Date(s) Drilled | 8/5/97 | Total Depth Drilled (feet) | | Top of Casing Elevation (feet) | | Groundwater Level (feet) | ▽ | First Completion | ▽ | 24 Hours | ▽ |
| Logged by | A. Ridley | Checked by | | Diameter of Hole (inches) | | Diameter of Well (inches) | | Number of Samples | | Disturbed | Undisturbed |
| Drilling Company | RSE | Drilling Method | Backhoe | Drill Rig Type | John Deere 510 D | | | | | | |
| Sampler Type | Grab | Drill Bit Size | 12" Bucket | Type of Well Casing | | | | | | | |
| Screen Perforation | | Type of Sand Pack | | | | | | | | | |
| Type of Seals | | | | | | | | | | | |
| Comments | At location S-1 on Figure 4 | | | | | | | | | | |

| Depth, feet | Elevation, feet | SAMPLES | | | USCS Classification | Graphic Log | MATERIAL DESCRIPTION | Well Completion Log | H ₂ O (ppm) | REMARKS |
|-------------|-----------------|-----------------|------------|----------|---------------------|--|----------------------|---------------------|------------------------|---------|
| | | Recovery Sample | Blows/foot | | | | | | | |
| 0 | | | | | | | | | | |
| 1 | SIA-1 | X | 260 | TPH M.O. | | Debris Fill Blown Gravelly SAND with A.C. and Concrete 2" dia to 1' dia. AC AC | | | No Petroleum odor | |
| 2 | | | | | | | | | | |
| 3 | SIA-2 | X | 310 | | | Tan Fine Sand with (SM) clay layers, FILL moist, dense | | | | |

Project: Encinal Terminals
 Project Number: 961163NA
 Location: ABL Parcel

Log of S3-A

| | | | | | | | | | | | |
|--------------------|-----------------------------|----------------------------|------------|--------------------------------|-----------------|---------------------------|--|-------------------|--|-----------|-------------|
| Date(s) Drilled | 8/5/97 | Total Depth Drilled (feet) | | Top of Casing Elevation (feet) | | Groundwater Level (feet) | | First Completion | | 24 Hours | |
| Logged by | A. Ridley | Checked by | | Diameter of Hole (inches) | 12" | Diameter of Well (inches) | | Number of Samples | | Disturbed | Undisturbed |
| Drilling Company | RSE | Drilling Method | Backhoe | Drill Rig Type | John Deere S10D | | | | | | |
| Sampler Type | Grab | Drill Bit Size | 12" Bucket | Type of Well Casing | | | | | | | |
| Screen Perforation | | | | | | Type of Sand Pack | | | | | |
| Type of Seals | | | | | | | | | | | |
| Comments | At location S-3 on Figure 4 | | | | | | | | | | |

| Depth, feet | Elevation, feet | SAMPLES | | | USCS Classification | Graphic Log | MATERIAL DESCRIPTION | Well Completion Log | HNU (ppm) | REMARKS |
|-------------|-----------------|----------|--------|------------|---------------------|---|----------------------|---------------------|--|---------|
| | | Recovery | Sample | Blows/foot | | | | | | |
| 0 | | | | | | Crushed A.C. India ↓ Loose, dry ↓ | | | No ↑ Petroleum Odor in any soils or A.C. layers ↓ | |
| 1' | S3A-1 | X | | 250 | | Brown silty clay with gravel, CL, Fill | | | | |
| 2' | S3A-2 | X | | 21 | | Tan fine sand with tan clay layers <u>TI 91 D</u> Moist Fill Medium dense ↓ | | | | |
| 3' | | | | | | | | | | |

Project: 961163NA
 Project Number: ENCINAL TERMINALS
 Location: PLANATAL PARCEL

Log of
SS5A

| | | | | |
|--|-----------------------------|---------------------------------|----------------------------|--|
| Date(s) Drilled: 9/5/97 | Total Depth Drilled (feet): | Top of Casing Elevation (feet): | Groundwater Level (feet): | First Completion: 24 Hours |
| Logged by: A. Ridley | Checked by: | Diameter of Hole (inches): | Diameter of Well (inches): | Number of Samples: Disturbed Undisturbed |
| Drilling Company: KSI | Drilling Method: Backhoe | Drill Rig Type: John Deere 510D | | |
| Sampler Type: Grab | Drill Bit Size: 12" Bucket | Type of Well Casing: | | |
| Screen Perforation: | Type of Sand Pack: | | | |
| Type of Seals: | | | | |
| Comments: A+ location SS-5 on Figure 4 | | | | |

| Depth, feet | Elevation, feet | SAMPLES | | | USCS Classification | Graphic Log | MATERIAL DESCRIPTION | Well Completion Log | H2O (ppm) | REMARKS |
|-------------|-----------------|-----------------|------------|--|---------------------|--|----------------------|---------------------|-----------|-------------------------------------|
| | | Recovery Sample | Blows/foot | | | | | | | |
| 0 | | | | | | | | | | |
| 1 | SS5A-1 | X | 81 | | | Brown sandy clay with 2" angular rock, some 2" A.C. debris, FILL (dry) | | | | Pampas Grass A.C. Debris on surface |
| 2 | SS5A-2 | X | 95 | | | Some roots from Pampas Grass | | | | NO petroleum odors |
| 3 | | | | | | Dark Gray clayey SAND FILL, medium dense, moist | | | | |

Project: *ENCINAL Terminal 2*
 Project Number: *961163NA*
 Location: *ABL Parcel*

Log of
S4-A

| | | | | |
|--|---------------------------------|--|----------------------------|--|
| Date(s) Drilled: <i>8/5/97</i> | Total Depth Drilled (feet): | Top of Casing Elevation (feet): | Groundwater Level (feet): | First Completion 24 Hours: |
| Logged by: <i>A. Ridley</i> | Checked by: | Diameter of Hole (inches): | Diameter of Well (inches): | Number of Samples: Disturbed: Undisturbed: |
| Drilling Company: <i>RSI</i> | Drilling Method: <i>Backhoe</i> | Drill Rig Type: <i>John Deere S10D</i> | Sampler Type: <i>Grab</i> | |
| Drill Bit Size: <i>12" Bucket</i> | Screen Perforation: | | Type of Sand Pack: | |
| Type of Seals: | | | | |
| Comments: <i>At location S-4 on Figure 4</i> | | | | |

| Depth, feet | Elevation, feet | SAMPLES | | | USCS Classification | Graphic Log | MATERIAL DESCRIPTION | Well Completion Log | H-Nu (ppm) | REMARKS |
|-------------|-----------------|----------|--------|------------|-----------------------|-------------|---|---------------------|------------|--|
| | | Recovery | Sample | Blows/foot | | | | | | |
| 0 | <i>S4-A1</i> | X | | | <i>TAH M.Oil 8600</i> | | <i>6" Loose 1" dia crushed A.C.</i> | | | |
| 1 | <i>S4-A2</i> | X | | | <i>130</i> | | <i>Tan Fine Sand with (SM) brown clay, fill</i> | | | <i>NO petroleum odor or stains in soil</i> |
| 2 | <i>S4-A3</i> | X | | | <i>110</i> | | <i>Light brown clay (CL) with fine sand</i> | | | |
| 3 | | | | | | | <i>Moist, silt</i> | | | |

| | |
|---|---|
| Project: 961163 NA Project Number: Location: | <h2 style="margin: 0;">Log of</h2> <h1 style="margin: 0;">SS8A</h1> |
|---|---|

| | | | | | | |
|--------------------|------------------------------|----------------------------|--------------------------------|---------------------------|---------------------------|-------------------|
| Date(s) Drilled | 8/5/97 | Total Depth Drilled (feet) | Top of Casing Elevation (feet) | Groundwater Level (feet) | First Completion | 24 Hours |
| Logged by | A. Ridgway | Checked by | | Diameter of Hole (inches) | Diameter of Well (inches) | Number of Samples |
| Drilling Company | RSI | Drilling Method | Backhoe | Drill Rig Type | J. Deere 510D | |
| Sampler Type | Grab | Drill Bit Size | 12" Bucket | Type of Well Casing | | |
| Screen Perforation | | | | Type of Sand Pack | | |
| Type of Seals | | | | | | |
| Comments | At location SS-8 on Figure 4 | | | | | |

| Depth, feet | Elevation, feet | SAMPLES | | | USCS Classification | Graphic Log | MATERIAL DESCRIPTION | Well Completion Log | H2O (ppm) | REMARKS |
|-------------|-----------------|----------|--------|------------|----------------------|-------------|---|---------------------|-----------|-------------------------|
| | | Recovery | Sample | Blows/foot | | | | | | |
| 0 | | | | | | | | | | |
| 0.5 | SS8A-1 | X | | | TPH M.C.I. 620 | | Brown Sandy Clay with angular gravel and pieces of A.C. up to 2" dia FILL | | | ↑ No Petro- odors |
| 1.5 | SS8A-2 | X | | | | | Brown gravel 2" dia Rounded, with Fine sand FILL and small roots | | | ↓ |
| 2.5 | | | | | | | Brown and Gray Mottled silty clay, Decayed plant odor fill? | | | |

Project: 96116311A

Project Number:

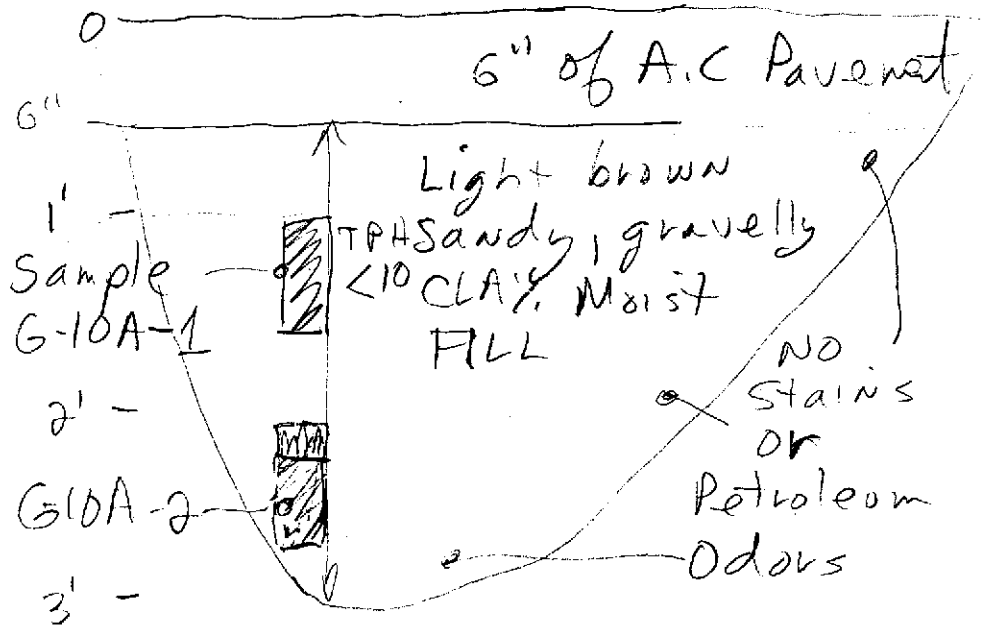
Location:

Log of
SGA

| | | | | | | | | | | | |
|--------------------|-----------------------------|----------------------------|------------|--------------------------------|-----------------|---------------------------|--|-------------------|--|-----------|-------------|
| Date(s) Drilled | 8-5-97 | Total Depth Drilled (feet) | | Top of Casing Elevation (feet) | | Groundwater Level (feet) | | First Completion | | 24 Hours | |
| Logged by | A. Ridley | Checked by | | Diameter of Hole (inches) | | Diameter of Well (inches) | | Number of Samples | | Disturbed | Undisturbed |
| Drilling Company | RSI | Drilling Method | Backhoe | Drill Rig Type | John Deere 510D | | | | | | |
| Sampler Type | Grab | Drill Bit Size | 12" Bucket | Type of Well Casing | | | | | | | |
| Screen Perforation | | | | Type of Sand Pack | | | | | | | |
| Type of Seals | | | | | | | | | | | |
| Comments | At location 5-6 on Figure 4 | | | | | | | | | | |

| Depth, feet | Elevation, feet | SAMPLES | | USCS Classification | Graphic Log | MATERIAL DESCRIPTION | Well Completion Log | H ₂ O (ppm) | REMARKS |
|-------------|-----------------|-----------------|------------|---------------------|-------------|--|---------------------|------------------------|------------------------|
| | | Recovery Sample | Blows/foot | | | | | | |
| 0 | | | | PH (M.G.) | | | | | |
| 1 | 564.1 | X | | 66 | | Brown gravelly clay with sand, pieces of A.C. FILL ↓ | | | ↑ No Petroleum Odor |
| 2 | 564.2 | X | | | | Tan sandy clay with gravel, FILL | | | |
| 3 | | | | | | ↓ ↓ ↓ Dark Gray silty clay, organic odor old bay sediment | | | ↓ |

G-10A Pit 8/27/07

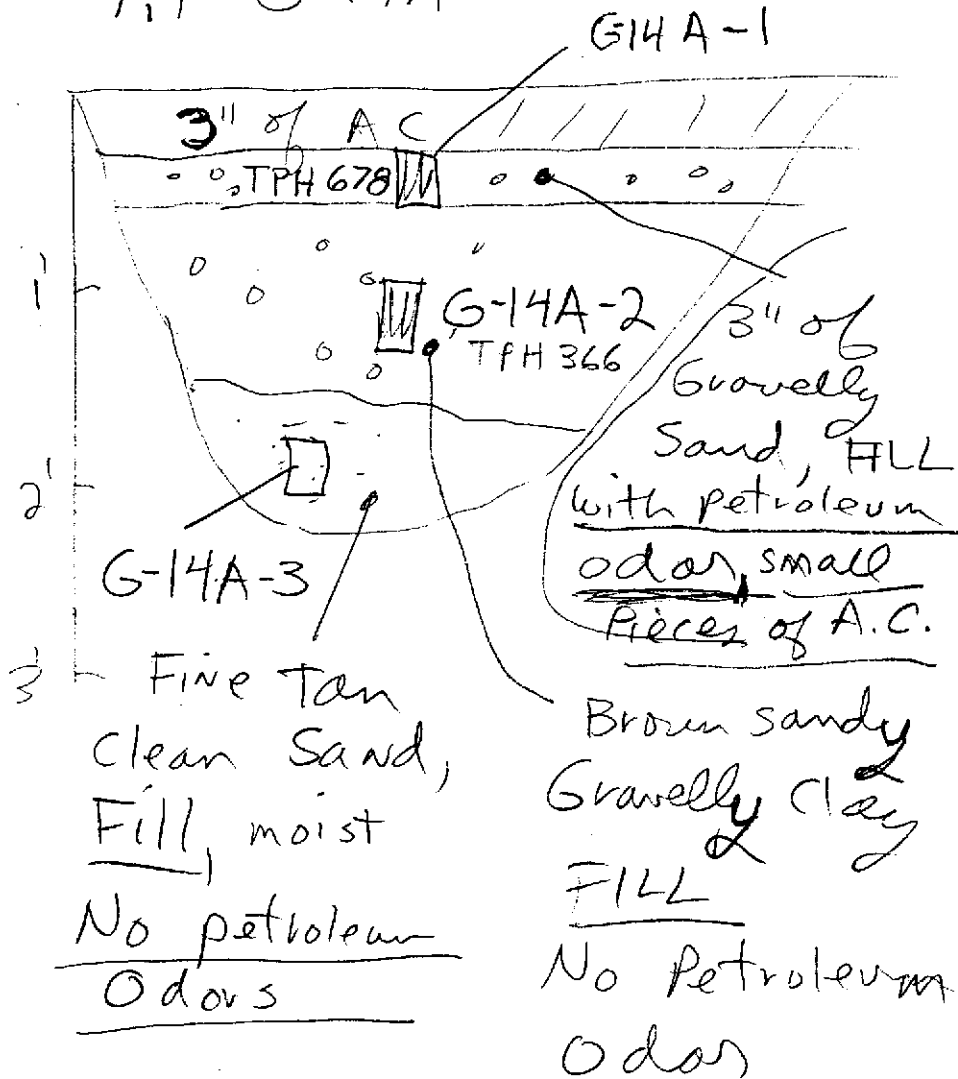


8-27-07

AB1163AK

A. P. [Signature]

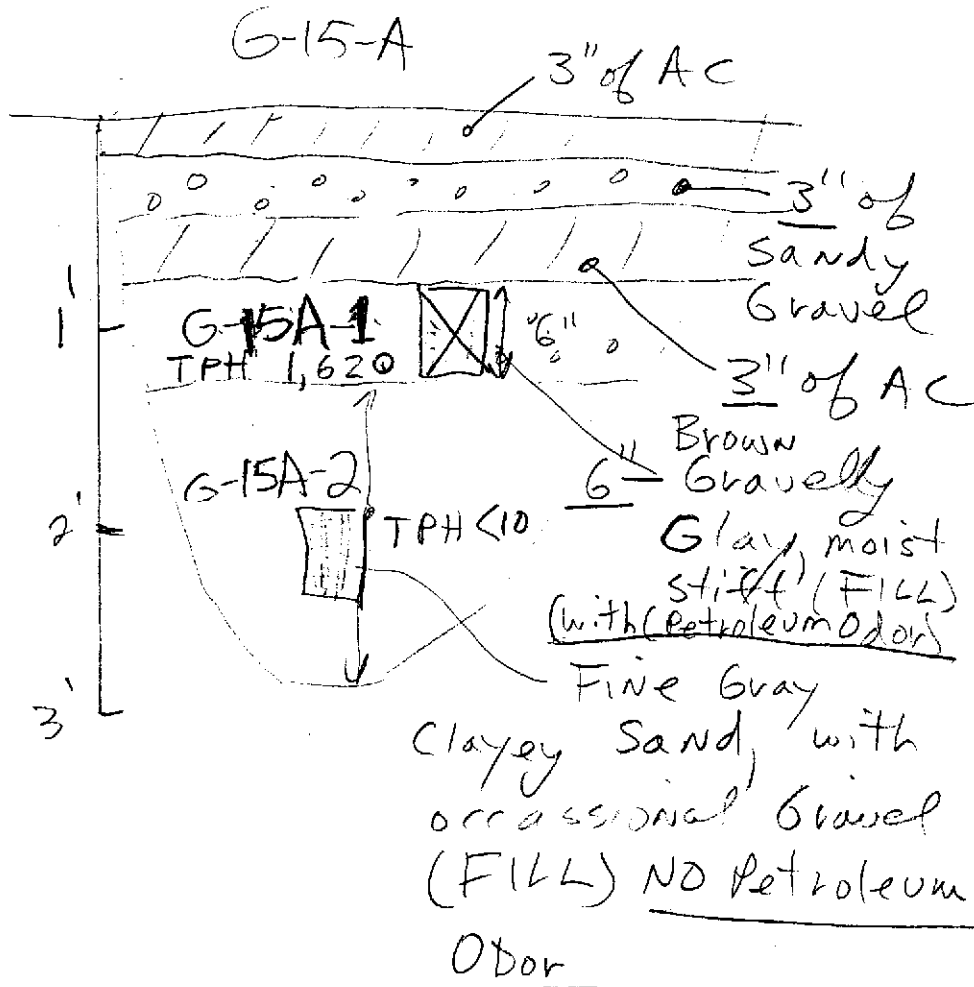
P-1 G-14A



8/27/97

a. Ridley

961163NA



8-27-97
161163WA
ARidley



Intertek Testing Services
Environmental Laboratories

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SECTION NARRATIVE

S.D.G. No. 1011

GROUP No. 1011

EXTRACTABLE TOTAL PETROLEUM HYDROCARBONS as DIESEL:

- All holding times have been met for the analyses reported in this section.
- The concentration reported as motor oil for sample S4A-1 is primarily due to the presence of combination of discrete peaks and a heavier petroleum product, possibly motor oil.

Reggie Dawson (for)
Sia Hosseinian
Organic Group Director

8/20/97
Date

TOTAL PETROLEUM HYDROCARBONS AS MOTOR OIL
INTERTEK TESTING SERVICES/ENVIRONMENTAL LABORATORIES
(408) 432-8192

DATA SUMMARY FORM

| | | | |
|-------------------|---------|----------------------|----------|
| Laboratory Group: | 1011 | Client Project ID: | 961163NA |
| Matrix: | SOIL | Date Released: | 8/20/97 |
| Date Extracted: | 8/19/97 | Concentration Units: | mg/Kg |
| Instrument ID: | HP23 | | |

| <u>Laboratory ID</u> | <u>Client ID</u> | <u>Date Sampled</u> | <u>Date Analyzed</u> | <u>Dilution Factor</u> | <u>Reporting Limit</u> | <u>Amount Found</u> | <u>Surrogate Recovery</u> |
|----------------------|------------------|---------------------|----------------------|------------------------|------------------------|---------------------|---------------------------|
| 97080446 | S4A-1 | 8/5/97 | 8/20/97 | 10 | 2000 | 8600 | 86% |
| BP0577S | Method Blank | N/A | 8/19/97 | 1 | 10 | ND | 82% |

ND: Not detected at or above the reporting limit for the method.
TPHd: Total Petroleum Hydrocarbons as motor oil is determined by GC/FID (modified EPA Method 8015) following sample extraction by EPA Method 3510. Surrogate recovery quality control limits for o-terphenyl are 75-117%.
All testing procedures follow California Department of Health Services approved methods.

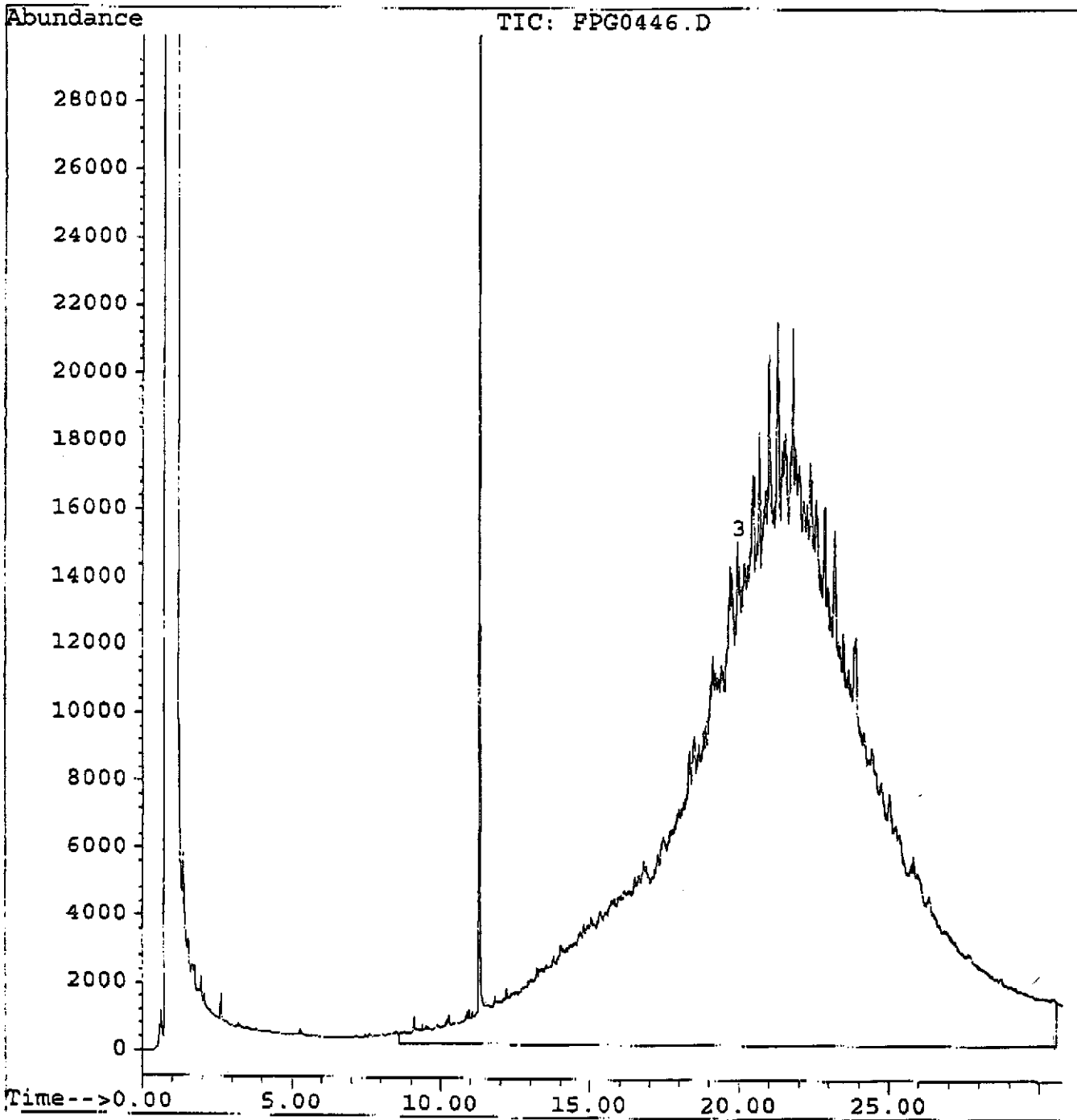
Quantitation Report

Data File : J:\GCTPH\HP23\DATA\23G19F1A\FPG0446.D
Acq On : 20 Aug 97 03:42 AM
Sample : S4A-1 #1011 SOIL
Misc :
Quant Time: Aug 21 9:31 1997

Oper: ARP
Vial: 14
Mult: 10.0

Method : J:\GCTPH\HP23\METHODS\23L15F1W.M
Title : TPHd - Anametrix, Inc
Last Update : Thu Aug 21 09:29:38 1997
Response via : Multiple Level Calibration

Volume Inj. : 3 uL Instrument ID : HP23
Signal Phase : DB-5
Signal Info : 0.53mm



Quantitation Report

Data File : J:\GCTPH\HP23\DATA\23G19F1A\FPG0446.D
 Acq On : 20 Aug 97 03:42 AM
 Sample : S4A-1 #1011 SOIL
 Misc :
 Quant Time: Aug 21 9:31 1997

Oper: ARP
 Vial: 14
 Mult: 10.0

Method : J:\GCTPH\HP23\METHODS\23L15F1W.M
 Title : TPHd - Anamatrix, Inc
 Last Update : Thu Aug 21 09:29:38 1997
 Response via : Multiple Level Calibration

Volume Inj. : 3 uL Instrument ID : HP23
 Signal Phase : DB-5
 Signal Info : 0.53mm

| Compound | R.T. | Response | Conc Units |
|-----------------------------|-------|----------|-------------|
| System Monitoring Compounds | | | |
| 1) o-TERPHENYL | 11.30 | 1120140 | 86.46 ppb |
| Target Compounds | | | |
| 2) DIESEL | 0.00 | 0 | N.D. ppb |
| 3) MOTOR OIL | 20.00 | 76149322 | 8552.19 ppm |

TOTAL PETROLEUM HYDROCARBONS AS MOTOR OIL
INTERTEK TESTING SERVICES/ENVIRONMENTAL LABORATORIES
(408) 432-8192

DATA SUMMARY FORM

| | | | |
|-------------------|---------|----------------------|----------|
| Laboratory Group: | 1011 | Client Project ID: | 961163NA |
| Matrix: | SOIL | Date Released: | 8/20/97 |
| Date Extracted: | 8/19/97 | Concentration Units: | mg/Kg |
| Instrument ID: | HP23 | | |

| <u>Laboratory ID</u> | <u>Client ID</u> | <u>Date Sampled</u> | <u>Date Analyzed</u> | <u>Dilution Factor</u> | <u>Reporting Limit</u> | <u>Amount Found</u> | <u>Surrogate Recovery</u> |
|----------------------|------------------|---------------------|----------------------|------------------------|------------------------|---------------------|---------------------------|
| 97080446 | S4A-1 | 8/5/97 | 8/20/97 | 10 | 2000 | 8600 | 86% |
| BP0577S | Method Blank | N/A | 8/19/97 | 1 | 10 | ND | 82% |

ND: Not detected at or above the reporting limit for the method.
TPHd: Total Petroleum Hydrocarbons as motor oil is determined by GC/FID (modified EPA Method 8015) following sample extraction by EPA Method 3510. Surrogate recovery quality control limits for o-terphenyl are 75-117%.
All testing procedures follow California Department of Health Services approved methods.

TOTAL PETROLEUM HYDROCARBONS AS MOTOR OIL
INTERTEK TESTING SERVICES/ ENVIRONMENTAL LABORATORIES
(408) 432-8192

LABORATORY CONTROL SAMPLE REPORT

| | | | |
|-----------------|---------|----------------------|-----------|
| Lab Group # : | 1011 | Laboratory ID: | M/NP0577S |
| Matrix: | SOIL | Date Released: | 8/20/97 |
| Date Extracted: | 8/19/97 | Instrument ID: | HP23 |
| Date Analyzed: | 8/19/97 | Concentration Units: | mg/Kg |

| COMPOUND NAME | SPIKE AMT | LCS CONC | % REC LCS | LCSD CONC | %REC LCSD | RPD |
|------------------|--------------|-------------|--------------|--------------|--------------|-----|
| Motor Oil | 62.5 | 64 | 102% | 69 | 110% | 8% |
| o-Terphenyl | | | 87% | | 94% | |

Quality control limits for LCS/LCSD recovery are 58-118%.

Quality control limits for RPD(relative percent difference) are +/- 18%.

Quality control limits for o-terphenyl recovery are 75-117%.

SECTION NARRATIVE

S.D.G. No. 1011

GROUP No. 1011

EXTRACTABLE TOTAL PETROLEUM HYDROCARBONS as DIESEL:

- All holding times have been met for the analyses reported in this section.
- The concentration reported as motor oil for sample S4A-1 is primarily due to the presence of combination of discrete peaks and a heavier petroleum product, possibly motor oil.

Reggie Dawson (for)
Sia Hosseinian
Organic Group Director

8/20/97
Date



Intertek Testing Services Environmental Laboratories

AL RIDLEY
WOODWARD-CLYDE CONSULTANTS
500 12TH STREET, SUITE #100
OAKLAND CA 94607

ITS Group # : 955
Date Received: 08/05/97
Project ID : 961163NA

The following samples were received at Intertek for analysis :

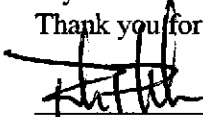
| ITS ID | CLIENT SAMPLE ID |
|----------|------------------|
| 97080129 | B1A-1 |
| 97080130 | B1A-2 |
| 97080131 | S1A-1 |
| 97080132 | S1A-2 |
| 97080133 | S3A-1 |
| 97080134 | S3A-2 |
| 97080135 | S4A-1 |
| 97080136 | S4A-2 |
| 97080137 | S4A-3 |
| 97080138 | SS5A-1 |
| 97080139 | SS5A-2 |
| 97080140 | S6A-1 |
| 97080141 | S6A-2 |
| 97080142 | SS8A-1 |
| 97080143 | SS8A-2 |

This report is organized in sections according to the specific Intertek laboratory group which performed the analysis(es) and generated the data.

The results contained within this report relate to only the sample(s) tested. Additionally, these data should be considered in their entirety and Intertek cannot be responsible for the detachment, separation, or otherwise partial use of this report.

Intertek is certified by the California Department of Health Services (DHS) to perform environmental testing under Certificate Number 1234.

If you have any further questions or comments on this report, please call your project manager as soon as possible. Thank you for using Intertek Testing Services.


Project Manager

08/13/97
Date

This report consists of 11 pages

SECTION NARRATIVE

S.D.G. No. 933

GROUP No. 955

GCTPH EXTRACTABLE

- All holding times have been met for the analyses reported in this section.

M. Hosseini
Sia Hosseinian
Organic Group Director

8/12/77
Date

TOTAL PETROLEUM HYDROCARBONS AS DIESEL
INTERTEK TESTING SERVICES/ENVIRONMENTAL LABORATORIES
(408) 432-8192

DATA SUMMARY FORM

| | | | |
|---------------------|--------|----------------------|----------|
| Laboratory Group #: | 955 | Client Project ID: | 961163NA |
| Matrix: | SOIL | Date Released: | 8/12/97 |
| Date Extracted: | 8/6/97 | Concentration Units: | mg/Kg |
| Instrument ID: | HP23 | | |

| <u>Laboratory ID</u> | <u>Client ID</u> | <u>Date Sampled</u> | <u>Date Analyzed</u> | <u>Dilution Factor</u> | <u>Reporting Limit</u> | <u>Amount Found</u> | <u>Surrogate Recovery</u> |
|----------------------|------------------|---------------------|----------------------|------------------------|------------------------|---------------------|---------------------------|
| 97080129 | B1A-1 | 8/5/97 | 8/7/97 | 10 | 100 | ND | 81% |
| 97080130 | B1A-2 | 8/5/97 | 8/6/97 | 1 | 10 | ND | 83% |
| 97080131 | S1A-1 | 8/5/97 | 8/7/97 | 10 | 100 | ND | 76% |
| 97080132 | S1A-2 | 8/5/97 | 8/7/97 | 10 | 100 | ND | 91% |
| 97080133 | S3A-1 | 8/5/97 | 8/7/97 | 10 | 100 | ND | 84% |
| 97080134 | S3A-2 | 8/5/97 | 8/7/97 | 1 | 10 | ND | 82% |
| 97080136 | S4-A-2 | 8/5/97 | 8/7/97 | 5 | 50 | ND | 77% |
| 97080137 | S4-A-3 | 8/5/97 | 8/6/97 | 1 | 10 | ND | 88% |

ND: Not detected at or above the reporting limit for the method.

TPHd: Total Petroleum Hydrocarbons as motor oil is determined by GC/FID (modified EPA Method 8015) following sample extraction by EPA Method 3550.

Surrogate recovery quality control limits for o-terphenyl are 75-117%.

All testing procedures follow California Department of Health Services approved methods.

TOTAL PETROLEUM HYDROCARBONS AS DIESEL
INTERTEK TESTING SERVICES/ENVIRONMENTAL LABORATORIES
(408) 432-8192

DATA SUMMARY FORM

| | | | |
|---------------------|--------|----------------------|----------|
| Laboratory Group #: | 955 | Client Project ID: | 961163NA |
| Matrix: | SOIL | Date Released: | 8/12/97 |
| Date Extracted: | 8/6/97 | Concentration Units: | mg/Kg |
| Instrument ID: | HP23 | | |

| <u>Laboratory ID</u> | <u>Client ID</u> | <u>Date Sampled</u> | <u>Date Analyzed</u> | <u>Dilution Factor</u> | <u>Reporting Limit</u> | <u>Amount Found</u> | <u>Surrogate Recovery</u> |
|----------------------|------------------|---------------------|----------------------|------------------------|------------------------|---------------------|---------------------------|
| 97080138 | SS5A-1 | 8/5/97 | 8/7/97 | 2 | 20 | ND | 80% |
| 97080139 | SS5A-2 | 8/5/97 | 8/7/97 | 5 | 50 | ND | 82% |
| 97080140 | S6A-1 | 8/5/97 | 8/7/97 | 2 | 20 | ND | 86% |
| 97080142 | SS8A-1 | 8/5/97 | 8/7/97 | 20 | 200 | ND | 73% |
| BP0534 | Method Blank | N/A | 8/6/97 | 1 | 10 | ND | 80% |

ND: Not detected at or above the reporting limit for the method.
TPHd: Total Petroleum Hydrocarbons as motor oil is determined by GC/FID (modified EPA Method 8015) following sample extraction by EPA Method 3550. Surrogate recovery quality control limits for o-terphenyl are 75-117%.
All testing procedures follow California Department of Health Services approved methods.

0004

TOTAL PETROLEUM HYDROCARBONS AS MOTOR OIL
INTERTEK TESTING SERVICES/ENVIRONMENTAL LABORATORIES
(408) 432-8192

DATA SUMMARY FORM

| | | | |
|---------------------|--------|----------------------|----------|
| Laboratory Group #: | 955 | Client Project ID: | 961163NA |
| Matrix: | SOIL | Date Released: | 8/12/97 |
| Date Extracted: | 8/6/97 | Concentration Units: | mg/Kg |
| Instrument ID: | HP23 | | |

| <u>Laboratory ID</u> | <u>Client ID</u> | <u>Date Sampled</u> | <u>Date Analyzed</u> | <u>Dilution Factor</u> | <u>Reporting Limit</u> | <u>Amount Found</u> | <u>Surrogate Recovery</u> |
|----------------------|------------------|---------------------|----------------------|------------------------|------------------------|---------------------|---------------------------|
| 97080129 | B1A-1 | 8/5/97 | 8/7/97 | 10 | 100 | 190 | 81% |
| 97080130 | B1A-2 | 8/5/97 | 8/6/97 | 1 | 10 | ND | 83% |
| 97080131 | S1A-1 | 8/5/97 | 8/7/97 | 10 | 100 | 260 | 76% |
| 97080132 | S1A-2 | 8/5/97 | 8/7/97 | 10 | 100 | 310 | 91% |
| 97080133 | S3A-1 | 8/5/97 | 8/7/97 | 10 | 100 | 250 | 84% |
| 97080134 | S3A-2 | 8/5/97 | 8/7/97 | 1 | 10 | 21 | 82% |
| 97080136 | S4-A-2 | 8/5/97 | 8/7/97 | 5 | 50 | 130 | 77% |
| 97080137 | S4-A-3 | 8/5/97 | 8/6/97 | 1 | 10 | ND | 88% |

ND: Not detected at or above the reporting limit for the method.

TPHd: Total Petroleum Hydrocarbons as motor oil is determined by GC/FID (modified EPA Method 8015) following sample extraction by EPA Method 3550.

Surrogate recovery quality control limits for o-terphenyl are 75-117%.

All testing procedures follow California Department of Health Services approved methods.

0005

TOTAL PETROLEUM HYDROCARBONS AS MOTOR OIL
INTERTEK TESTING SERVICES/ENVIRONMENTAL LABORATORIES
(408) 432-8192

DATA SUMMARY FORM

| | | | |
|---------------------|--------|----------------------|----------|
| Laboratory Group #: | 955 | Client Project ID: | 961163NA |
| Matrix: | SOIL | Date Released: | 8/12/97 |
| Date Extracted: | 8/6/97 | Concentration Units: | mg/Kg |
| Instrument ID: | HP23 | | |

| <u>Laboratory ID</u> | <u>Client ID</u> | <u>Date Sampled</u> | <u>Date Analyzed</u> | <u>Dilution Factor</u> | <u>Reporting Limit</u> | <u>Amount Found</u> | <u>Surrogate Recovery</u> |
|----------------------|------------------|---------------------|----------------------|------------------------|------------------------|---------------------|---------------------------|
| 97080138 | SS5A-1 | 8/5/97 | 8/7/97 | 2 | 20 | 81 | 80% |
| 97080139 | SS5A-2 | 8/5/97 | 8/7/97 | 5 | 50 | 95 | 82% |
| 97080140 | S6A-1 | 8/5/97 | 8/7/97 | 2 | 20 | 66 | 86% |
| 97080142 | SS8A-1 | 8/5/97 | 8/7/97 | 20 | 200 | 620 | 73% |
| BP0534 | Method Blank | N/A | 8/6/97 | 1 | 10 | ND | 80% |

ND: Not detected at or above the reporting limit for the method.
TPHd: Total Petroleum Hydrocarbons as motor oil is determined by GC/FID (modified EPA Method 8015) following sample extraction by EPA Method 3550. Surrogate recovery quality control limits for o-terphenyl are 75-117%.
All testing procedures follow California Department of Health Services approved methods.

0006

TOTAL PETROLEUM HYDROCARBONS AS DIESEL
INTERTEK TESTING SERVICES/ ENVIRONMENTAL LABORATORIES
(408) 432-8192

MATRIX SPIKE RECOVERY REPORT

| | | | |
|--------------------|----------|----------------------|----------|
| Client Project ID: | 961163NA | Laboratory ID: | 97080139 |
| Client Sample ID: | SS5A-2 | Date Released: | 8/12/97 |
| Date Sampled: | 8/5/97 | Instrument ID: | HP23 |
| Date Extracted: | 8/6/97 | Matrix: | SOIL |
| Date Analyzed: | 8/7/97 | Concentration Units: | mg/Kg |

| <u>COMPOUND</u> <u>NAME</u> | <u>SPIKE</u> <u>AMT</u> | <u>SAMPLE</u> <u>CONC</u> | <u>MS</u> <u>CONC</u> | <u>% REC</u> <u>MS</u> | <u>MSD</u> <u>CONC</u> | <u>%REC</u> <u>MSD</u> | <u>RPD</u> |
|--------------------------------|----------------------------|------------------------------|--------------------------|---------------------------|---------------------------|---------------------------|------------|
| Diesel | 62.5 | 0 | 73.0 | 117% | 65.9 | 105% | 11% |
| o-Terphenyl | | | | 75% | | 84% | |

Quality control limits for MS/MSD recovery are 32-143%

Quality control limits for RPD(relative percent difference) are +/- 30%.

Quality control limits for o-terphenyl recovery are 75-117%.

0007

TOTAL PETROLEUM HYDROCARBONS AS DIESEL
INTERTEK TESTING SERVICES/ ENVIRONMENTAL LABORATORIES
(408) 432-8192

LABORATORY CONTROL SAMPLE REPORT

| | |
|-----------------------------|----------------------------|
| Client Project ID: 961163NA | Laboratory ID: M/NP0534 |
| Matrix: SOIL | Date Released: 8/12/97 |
| Date Extracted: 8/6/97 | Instrument ID: HP23 |
| Date Analyzed: 8/6/97 | Concentration Units: mg/Kg |

| <u>COMPOUND</u> <u>NAME</u> | <u>SPIKE</u> <u>AMT</u> | <u>LCS</u> <u>CONC</u> | <u>% REC</u> <u>LCS</u> | <u>LCSD</u> <u>CONC</u> | <u>%REC</u> <u>LCSD</u> | <u>RPD</u> |
|--------------------------------|----------------------------|---------------------------|----------------------------|----------------------------|----------------------------|------------|
| Diesel | 62.5 | 47.7 | 76% | 48.3 | 77% | 1% |
| o-Terphenyl | | | 90% | | 91% | |

Quality control limits for LCS/LCSD recovery are 60-130%

Quality control limits for RPD(relative percent difference) are +/- 30%.

Quality control limits for o-terphenyl recovery are 75-117%

0008



Intertek Testing Services Environmental Laboratories

INCIDENT REPORT Sample Receiving

Sample Custodian: Jose Perez
Workorder Number: 955

Date: 8-6-97
Proj. ID/SDG: 0161163NA

- SAMPLE**
- Containers with headspace
 - Containers without labels
 - Improper containers
 - Containers broken
 - Not properly preserved
 - Transferred upon receipt
 - Cooler temperature outside of range: _____
 - Arrived outside of hold time for _____
- METHOD (S)

- CHAIN OF CUSTODY**
- not received
 - Illegible
 - Containers do not match Sample I.D.
 - Incomplete Date of Sampling
not on C.O.C
 - No corrective action

Other (Please specify): _____

Affected sample(s): ① Sample # 97080130 - I.D. on C.O.C is BIA-2
but on container I.D. is SIA-2 ② Samples # 97080129 - 97080139,
97080141 - 97080143

Corrective Action: ① Times of Sampling were the same on C.O.C
and container ② Date was on C.O.C

Supervisor Verification: [Signature] Date: 8-6-97

Project Manager Verification: [Signature] Date: 08/08/97



Intertek Testing Services Environmental Laboratories

| SAMPLE RECEIVING CHECKLIST | | |
|--|---|---------------|
| Workorder Number: <u>955</u> | Client Project ID: <u>961163NA</u> | Quote Number: |
| Cooler | | |
| Shipping documentation present? If YES, enter Carrier and Airbill #: | YES NO <u>(N/A)</u> | |
| Custody Seal on the outside of cooler? Condition: Intact Broken | YES NO <u>(N/A)</u> | |
| Temperature of sample(s) within range? List temperatures of cooler(s): <u>3 °C</u> Note: If all samples taken within previous 4 hr, circle N/A and place in sample storage area as soon as possible. | <u>(YES)</u> NO N/A IR <u>-1</u> Temp Blank <u>—</u> | |
| Samples | | |
| Chain of custody seal present for each container? Condition: Intact Broken | YES NO <u>(N/A)</u> | |
| Samples arrived within holding time? | <u>(YES)</u> NO N/A | |
| Samples in proper containers for methods requested? Condition of containers: <u>(Intact)</u> Broken If NO, were samples transferred to proper container(s)? Yes No | <u>(YES)</u> NO | |
| VOA containers received with zero headspace or bubbles < 6 mm? | YES NO <u>(N/A)</u> | |
| Container labels complete? (ID, date, time, preservative) | <u>(YES)</u> NO N/A | |
| Samples properly preserved? If NO, was the preservative added at time of receipt? Yes No | YES NO <u>(N/A)</u> | |
| pH check of samples required at time of receipt?(volatiles checked at analysis) If YES, pH checked and recorded by: | YES <u>(NO)</u> | |
| Sufficient amount of sample received for methods requested? If NO, has the client or PM been notified? Yes No | <u>(YES)</u> NO | |
| Field blanks received with sample batch? | YES NO <u>(N/A)</u> | |
| Trip blanks received with sample batch? | YES NO <u>(N/A)</u> | |
| Chain of Custody | | |
| Chain of custody form received with samples? | <u>(YES)</u> NO | |
| Has it been filled out completely and in ink? | <u>(YES)</u> NO | |
| Sample IDs on chain of custody form agree with labels? | YES <u>(NO)</u> | |
| Number of containers on chain agree with number received? | <u>(YES)</u> NO | |
| Analysis methods specified? | <u>(YES)</u> NO | |
| Sampling date and time indicated? | YES <u>(NO)</u> | |
| Proper signatures of sampler, courier and custodian in appropriate spaces? With time and date? <u>(Yes)</u> No | <u>(YES)</u> NO | |
| Turnaround time? Standard <u>(Rush)</u> | | |

Any NO responses and/or any BROKEN that was checked must be detailed in a Corrective Action Form.

Sample Custodian: JP Date: 8-6-97 Project Manager: [Signature] Date: 08/09/97



Intertek Testing Services Environmental Laboratories

ANALYTICAL REPORT

DATE RECEIVED : 29-AUG-1997

REPORT NUMBER : D97-10534

REPORT DATE : 4-SEP-1997

ATTENTION : Mr. Al Ridley
SAMPLE SUBMITTED BY : Woodward-Clyde Consultants
ADDRESS : 500 12th Street, Suite 200
: Oakland, CA 94607-4014

PROJECT : 961163NA

Included in this data package are the analytical results for the sample group which you have submitted to Intertek Testing Services for analysis. These results are representative of the samples as received by the laboratory.

The information contained herein has undergone extensive review and is deemed accurate and complete. Sample analysis and quality control were performed in accordance with all applicable protocols. Please refrain from reproducing this report except in its entirety.

If you have any questions regarding this report and its associated materials please call your Project Manager at (972) 238-5591.

We appreciate the opportunity to serve you and look forward to providing continued service in the future.

Martin Jeffus
General Manager



Intertek Testing Services Environmental Laboratories

DATE RECEIVED : 29-AUG-1997

REPORT NUMBER : D97-10534-1

REPORT DATE : 4-SEP-1997

SAMPLE SUBMITTED BY : Woodward-Clyde Consultants
 ADDRESS : 500 12th Street, Suite 200
 : Oakland, CA 94607-4014
 ATTENTION : Mr. Al Ridley

SAMPLE MATRIX : Soil
 ID MARKS : G-10A-1
 PROJECT : 961163NA
 DATE SAMPLED : 27-AUG-1997
 PREPARATION METHOD : EPA 3550A
 PREPARED BY : CLT
 PREPARED ON : 29-AUG-1997
 ANALYSIS METHOD : EPA 8015M /1
 ANALYZED BY : VHL
 ANALYZED ON : 2-SEP-1997
 DILUTION FACTOR : 1
 METHOD FACTOR : 1
 QC BATCH NO : AC193-83

| TPH BY GC EXTENDED RUN (EXTRACTABLE) | | |
|--------------------------------------|-----------------|--------------|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Total Petroleum Hydrocarbons | 10.0 mg/Kg | < 10.0 mg/Kg |
| Motor Oil | | < 10.0 mg/Kg |

| QUALITY CONTROL DATA | | |
|----------------------|--|-----------------|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Triacontane (SS) | | 85.2 % |



Intertek Testing Services Environmental Laboratories

DATE RECEIVED : 29-AUG-1997

REPORT NUMBER : D97-10534-1

REPORT DATE : 4-SEP-1997

SAMPLE SUBMITTED BY : Woodward-Clyde Consultants
ADDRESS : 500 12th Street, Suite 200
: Oakland, CA 94607-4014
ATTENTION : Mr. Al Ridley

SAMPLE MATRIX : Soil
ID MARKS : G-10A-1
PROJECT : 961163NA
DATE SAMPLED : 27-AUG-1997
ANALYSIS METHOD : EPA 5030/8015M /1
ANALYZED BY : MGK
ANALYZED ON : 29-AUG-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : 28-082897

| TPH BY GC (VOLATILE) | | |
|-----------------------------|---------------------|-----------------------|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Total Petroleum Hydrocarbon | 50 $\mu\text{g/Kg}$ | < 50 $\mu\text{g/Kg}$ |

| QUALITY CONTROL DATA | |
|----------------------|-----------------|
| SURROGATE COMPOUND | SPIKE RECOVERED |
| Fluorobenzene | 94.0 % |



Intertek Testing Services Environmental Laboratories

DATE RECEIVED : 29-AUG-1997

REPORT NUMBER : D97-10534-2

REPORT DATE : 4-SEP-1997

SAMPLE SUBMITTED BY : Woodward-Clyde Consultants
 ADDRESS : 500 12th Street, Suite 200
 : Oakland, CA 94607-4014
 ATTENTION : Mr. Al Ridley

SAMPLE MATRIX : Soil
 ID MARKS : G-15A-1
 PROJECT : 961163NA
 DATE SAMPLED : 27-AUG-1997
 PREPARATION METHOD : EPA 3550A
 PREPARED BY : CLT
 PREPARED ON : 29-AUG-1997
 ANALYSIS METHOD : EPA 8015M /1
 ANALYZED BY : VHL
 ANALYZED ON : 2-SEP-1997
 DILUTION FACTOR : 5
 METHOD FACTOR : 1
 QC BATCH NO : AC193-83

| TPH BY GC EXTENDED RUN (EXTRACTABLE) | | |
|--------------------------------------|-----------------|--------------|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Total Petroleum Hydrocarbons | 50.0 mg/Kg | < 50.0 mg/Kg |
| Motor Oil | | 1620 mg/Kg |

| QUALITY CONTROL DATA | | |
|----------------------|--|-----------------|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Triacontane (SS) | | 200 % * |

* Interference matrix effect.



Intertek Testing Services Environmental Laboratories

DATE RECEIVED : 29-AUG-1997

REPORT NUMBER : D97-10534-2

REPORT DATE : 4-SEP-1997

SAMPLE SUBMITTED BY : Woodward-Clyde Consultants
ADDRESS : 500 12th Street, Suite 200
: Oakland, CA 94607-4014
ATTENTION : Mr. Al Ridley

SAMPLE MATRIX : Soil
ID MARKS : G-15A-1
PROJECT : 961163NA
DATE SAMPLED : 27-AUG-1997
ANALYSIS METHOD : EPA 5030/8015M /1
ANALYZED BY : MGK
ANALYZED ON : 29-AUG-1997
DILUTION FACTOR : 5
METHOD FACTOR : 1
QC BATCH NO : 28-082897

| TPH BY GC (VOLATILE) | | |
|-----------------------------|----------------------|------------------------|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Total Petroleum Hydrocarbon | 250 $\mu\text{g/Kg}$ | < 250 $\mu\text{g/Kg}$ |

| QUALITY CONTROL DATA | |
|----------------------|-----------------|
| SURROGATE COMPOUND | SPIKE RECOVERED |
| Fluorobenzene | 101 % |



Intertek Testing Services Environmental Laboratories

DATE RECEIVED : 29-AUG-1997

REPORT NUMBER : D97-10534-2

REPORT DATE : 4-SEP-1997

SAMPLE SUBMITTED BY : Woodward-Clyde Consultants
ADDRESS : 500 12th Street, Suite 200
: Oakland, CA 94607-4014
ATTENTION : Mr. Al Ridley

SAMPLE MATRIX : Soil
ID MARKS : G-15A-1
PROJECT : 961163NA
DATE SAMPLED : 27-AUG-1997

| MISCELLANEOUS ANALYSES | | |
|--|-----------------|---------|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Total Solids /1 | 0.01 % | 94.8 % |
| Analyzed using ASTM D2216 mod. on 2-SEP-1997 by DPV QC Batch No : 156098A | | |



Intertek Testing Services Environmental Laboratories

DATE RECEIVED : 29-AUG-1997

REPORT NUMBER : D97-10534-3

REPORT DATE : 4-SEP-1997

SAMPLE SUBMITTED BY : Woodward-Clyde Consultants
ADDRESS : 500 12th Street, Suite 200
: Oakland, CA 94607-4014
ATTENTION : Mr. Al Ridley

SAMPLE MATRIX : Soil
ID MARKS : G-15A-2
PROJECT : 961163NA
DATE SAMPLED : 27-AUG-1997
PREPARATION METHOD : EPA 3550A
PREPARED BY : CLT
PREPARED ON : 29-AUG-1997
ANALYSIS METHOD : EPA 8015M /1
ANALYZED BY : VHL
ANALYZED ON : 2-SEP-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : AC193-83

| TPH BY GC EXTENDED RUN (EXTRACTABLE) | | |
|--------------------------------------|-----------------|--------------|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Total Petroleum Hydrocarbons | 10.0 mg/Kg | < 10.0 mg/Kg |
| Motor Oil | | < 10.0 mg/Kg |

| QUALITY CONTROL DATA | | |
|----------------------|--|-----------------|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Triacotane (SS) | | 98.7 % |



Intertek Testing Services Environmental Laboratories

DATE RECEIVED : 29-AUG-1997

REPORT NUMBER : D97-10534-3

REPORT DATE : 4-SEP-1997

SAMPLE SUBMITTED BY : Woodward-Clyde Consultants
ADDRESS : 500 12th Street, Suite 200
: Oakland, CA 94607-4014
ATTENTION : Mr. Al Ridley

SAMPLE MATRIX : Soil
ID MARKS : G-15A-2
PROJECT : 961163NA
DATE SAMPLED : 27-AUG-1997
ANALYSIS METHOD : EPA 5030/8015M /1
ANALYZED BY : MGK
ANALYZED ON : 29-AUG-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : 28-082897

| TPH BY GC (VOLATILE) | | |
|-----------------------------|---------------------|-----------------------|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Total Petroleum Hydrocarbon | 50 $\mu\text{g/Kg}$ | < 50 $\mu\text{g/Kg}$ |

| QUALITY CONTROL DATA | |
|----------------------|-----------------|
| SURROGATE COMPOUND | SPIKE RECOVERED |
| Fluorobenzene | 93.8 % |



Intertek Testing Services Environmental Laboratories

DATE RECEIVED : 29-AUG-1997

REPORT NUMBER : D97-10534-3

REPORT DATE : 4-SEP-1997

SAMPLE SUBMITTED BY : Woodward-Clyde Consultants
ADDRESS : 500 12th Street, Suite 200
: Oakland, CA 94607-4014
ATTENTION : Mr. Al Ridley

SAMPLE MATRIX : Soil
ID MARKS : G-15A-2
PROJECT : 961163NA
DATE SAMPLED : 27-AUG-1997

| MISCELLANEOUS ANALYSES | | |
|--|-----------------|---------|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Total Solids /1 | 0.01 % | 92.4 % |
| Analyzed using ASTM D2216 mod. on 2-SEP-1997 by DPV QC Batch No : 156098A | | |



Intertek Testing Services Environmental Laboratories

DATE RECEIVED : 29-AUG-1997

REPORT NUMBER : D97-10534-4

REPORT DATE : 4-SEP-1997

SAMPLE SUBMITTED BY : Woodward-Clyde Consultants
ADDRESS : 500 12th Street, Suite 200
: Oakland, CA 94607-4014
ATTENTION : Mr. Al Ridley

SAMPLE MATRIX : Soil
ID MARKS : G-14A-1
PROJECT : 961163NA
DATE SAMPLED : 27-AUG-1997
PREPARATION METHOD : EPA 3550A
PREPARED BY : CLT
PREPARED ON : 29-AUG-1997
ANALYSIS METHOD : EPA 8015M /1
ANALYZED BY : VHL
ANALYZED ON : 3-SEP-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : AC193-83

| TPH BY GC EXTENDED RUN (EXTRACTABLE) | | |
|--------------------------------------|-----------------|--------------|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Total Petroleum Hydrocarbons | 10.0 mg/Kg | < 10.0 mg/Kg |
| Motor Oil | | 678 mg/Kg |

| QUALITY CONTROL DATA | | |
|----------------------|--|-----------------|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Triacontane (SS) | | 139 % |



Intertek Testing Services Environmental Laboratories

DATE RECEIVED : 29-AUG-1997

REPORT NUMBER : D97-10534-4

REPORT DATE : 4-SEP-1997

SAMPLE SUBMITTED BY : Woodward-Clyde Consultants
ADDRESS : 500 12th Street, Suite 200
: Oakland, CA 94607-4014
ATTENTION : Mr. Al Ridley

SAMPLE MATRIX : Soil
ID MARKS : G-14A-1
PROJECT : 961163NA
DATE SAMPLED : 27-AUG-1997
ANALYSIS METHOD : EPA 5030/8015M /1
ANALYZED BY : MGK
ANALYZED ON : 29-AUG-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : 28-082897

| TPH BY GC (VOLATILE) | | |
|-----------------------------|---------------------|-----------------------|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Total Petroleum Hydrocarbon | 50 $\mu\text{g/Kg}$ | < 50 $\mu\text{g/Kg}$ |

| QUALITY CONTROL DATA | |
|----------------------|-----------------|
| SURROGATE COMPOUND | SPIKE RECOVERED |
| Fluorobenzene | 118 % |



Intertek Testing Services Environmental Laboratories

DATE RECEIVED : 29-AUG-1997

REPORT NUMBER : D97-10534-4

REPORT DATE : 4-SEP-1997

SAMPLE SUBMITTED BY : Woodward-Clyde Consultants
ADDRESS : 500 12th Street, Suite 200
: Oakland, CA 94607-4014
ATTENTION : Mr. Al Ridley

SAMPLE MATRIX : Soil
ID MARKS : G-14A-1
PROJECT : 961163NA
DATE SAMPLED : 27-AUG-1997

| MISCELLANEOUS ANALYSES | | |
|--|-----------------|---------|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Total Solids /1 | 0.01 % | 93.0 % |
| Analyzed using ASTM D2216 mod. on 2-SEP-1997 by DPV QC Batch No : 156098A | | |



Intertek Testing Services Environmental Laboratories

DATE RECEIVED : 29-AUG-1997

REPORT NUMBER : D97-10534-5

REPORT DATE : 4-SEP-1997

SAMPLE SUBMITTED BY : Woodward-Clyde Consultants
ADDRESS : 500 12th Street, Suite 200
: Oakland, CA 94607-4014
ATTENTION : Mr. Al Ridley

SAMPLE MATRIX : Soil
ID MARKS : G-14A-2
PROJECT : 961163NA
DATE SAMPLED : 27-AUG-1997
PREPARATION METHOD : EPA 3550A
PREPARED BY : CLT
PREPARED ON : 29-AUG-1997
ANALYSIS METHOD : EPA 8015M /1
ANALYZED BY : VHL
ANALYZED ON : 3-SEP-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : AC193-83

| TPH BY GC EXTENDED RUN (EXTRACTABLE) | | |
|--------------------------------------|-----------------|--------------|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Total Petroleum Hydrocarbons | 10.0 mg/Kg | < 10.0 mg/Kg |
| Motor Oil | | 366 mg/Kg |

| QUALITY CONTROL DATA | | |
|----------------------|--|-----------------|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Triacontane (SS) | | 133 % |



Intertek Testing Services Environmental Laboratories

DATE RECEIVED : 29-AUG-1997

REPORT NUMBER : D97-10534-5

REPORT DATE : 4-SEP-1997

SAMPLE SUBMITTED BY : Woodward-Clyde Consultants
ADDRESS : 500 12th Street, Suite 200
: Oakland, CA 94607-4014
ATTENTION : Mr. Al Ridley

SAMPLE MATRIX : Soil
ID MARKS : G-14A-2
PROJECT : 961163NA
DATE SAMPLED : 27-AUG-1997
ANALYSIS METHOD : EPA 5030/8015M /1
ANALYZED BY : MGK
ANALYZED ON : 29-AUG-1997
DILUTION FACTOR : 5
METHOD FACTOR : 1
QC BATCH NO : 28-082897

| TPH BY GC (VOLATILE) | | |
|-----------------------------|----------------------|------------------------|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Total Petroleum Hydrocarbon | 250 $\mu\text{g/Kg}$ | < 250 $\mu\text{g/Kg}$ |

| QUALITY CONTROL DATA | | |
|----------------------|--|-----------------|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Fluorobenzene | | 97.1 % |

Intertek Testing Services NA Inc.
1089 East Collins Boulevard Richardson, TX 75081
Telephone (972) 238-5591 Fax (972) 238-5592



Intertek Testing Services Environmental Laboratories

DATE RECEIVED : 29-AUG-1997

REPORT NUMBER : D97-10534-5

REPORT DATE : 4-SEP-1997

SAMPLE SUBMITTED BY : Woodward-Clyde Consultants
ADDRESS : 500 12th Street, Suite 200
: Oakland, CA 94607-4014
ATTENTION : Mr. Al Ridley

SAMPLE MATRIX : Soil
ID MARKS : G-14A-2
PROJECT : 961163NA
DATE SAMPLED : 27-AUG-1997

| MISCELLANEOUS ANALYSES | | |
|--|-----------------|---------|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Total Solids /1 | 0.01 % | 93.7 % |
| Analyzed using ASTM D2216 mod. on 2-SEP-1997 by DPV QC Batch No : 156098A | | |



Intertek Testing Services Environmental Laboratories

DATE RECEIVED : 29-AUG-1997

REPORT NUMBER : D97-10534-6

REPORT DATE : 4-SEP-1997

SAMPLE SUBMITTED BY : Woodward-Clyde Consultants
ADDRESS : 500 12th Street, Suite 200
: Oakland, CA 94607-4014
ATTENTION : Mr. Al Ridley

SAMPLE MATRIX : Soil
ID MARKS : LABQC
: MB
PROJECT : 961163NA
DATE SAMPLED : 29-AUG-1997
PREPARATION METHOD : EPA 3550A
PREPARED BY : CLT
PREPARED ON : 29-AUG-1997
ANALYSIS METHOD : EPA 8015M /1
ANALYZED BY : VHL
ANALYZED ON : 2-SEP-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : AC193-83

| TPH BY GC EXTENDED RUN (EXTRACTABLE) | | |
|--------------------------------------|-----------------|--------------|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Total Petroleum Hydrocarbons | 10.0 mg/Kg | < 10.0 mg/Kg |
| Motor Oil | | < 10.0 mg/Kg |

| QUALITY CONTROL DATA | | |
|----------------------|--|-----------------|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Triacontane (SS) | | 88.1 % |



Intertek Testing Services Environmental Laboratories

DATE RECEIVED : 29-AUG-1997

REPORT NUMBER : D97-10534-6

REPORT DATE : 4-SEP-1997

SAMPLE SUBMITTED BY : Woodward-Clyde Consultants
 ADDRESS : 500 12th Street, Suite 200
 : Oakland, CA 94607-4014
 ATTENTION : Mr. Al Ridley

SAMPLE MATRIX : Soil
 ID MARKS : LABQC
 : MB

PROJECT : 961163NA
 DATE SAMPLED : 29-AUG-1997
 ANALYSIS METHOD : EPA 5030/8015M /1
 ANALYZED BY : MGK
 ANALYZED ON : 28-AUG-1997
 DILUTION FACTOR : 1
 METHOD FACTOR : 1
 QC BATCH NO : 28-082897

| TPH BY GC (VOLATILE) | | |
|-----------------------------|---------------------|-----------------------|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Total Petroleum Hydrocarbon | 50 $\mu\text{g/Kg}$ | < 50 $\mu\text{g/Kg}$ |

| QUALITY CONTROL DATA | | |
|----------------------|--|-----------------|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Fluorobenzene | | 96.6 % |



Intertek Testing Services Environmental Laboratories

DATE RECEIVED : 29-AUG-1997

REPORT NUMBER : D97-10534-7

REPORT DATE : 4-SEP-1997

SAMPLE SUBMITTED BY : Woodward-Clyde Consultants
ADDRESS : 500 12th Street, Suite 200
: Oakland, CA 94607-4014
ATTENTION : Mr. Al Ridley

SAMPLE MATRIX : Soil
ID MARKS : LABQC
: LCS
PROJECT : 961163NA
DATE SAMPLED : 29-AUG-1997
PREPARATION METHOD : EPA 3550A
PREPARED BY : CLT
PREPARED ON : 29-AUG-1997
ANALYSIS METHOD : EPA 8015M /1
ANALYZED BY : VHL
ANALYZED ON : 2-SEP-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : AC193-83

| TPH BY GC EXTENDED RUN (EXTRACTABLE) | | |
|--------------------------------------|-----------------|------------|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Total Petroleum Hydrocarbons | 10.0 mg/Kg | 68.9 mg/Kg |

| QUALITY CONTROL DATA | | |
|----------------------|--|-----------------|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Triacontane (SS) | | 80.7 % |



Intertek Testing Services Environmental Laboratories

DATE RECEIVED : 29-AUG-1997

REPORT NUMBER : D97-10534-7

REPORT DATE : 4-SEP-1997

SAMPLE SUBMITTED BY : Woodward-Clyde Consultants
ADDRESS : 500 12th Street, Suite 200
: Oakland, CA 94607-4014
ATTENTION : Mr. Al Ridley

SAMPLE MATRIX : Soil
ID MARKS : LABQC
: LCS

PROJECT : 961163NA
DATE SAMPLED : 29-AUG-1997
ANALYSIS METHOD : EPA 5030/8015M /1
ANALYZED BY : MGK
ANALYZED ON : 28-AUG-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : 28-082897

| TPH BY GC (VOLATILE) | | |
|-----------------------------|---------------------|----------------------|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Total Petroleum Hydrocarbon | 50 $\mu\text{g/Kg}$ | 441 $\mu\text{g/Kg}$ |

| QUALITY CONTROL DATA | | |
|----------------------|-----------------|---|
| SURROGATE COMPOUND | SPIKE RECOVERED | |
| Fluorobenzene | 104 | % |



Intertek Testing Services Environmental Laboratories

REPORT DATE : 4-SEP-1997

REPORT NUMBER : D97-10534

SAMPLE SUBMITTED BY : Woodward-Clyde Consultants
ATTENTION : Mr. Al Ridley
PROJECT : 961163NA

LABORATORY QUALITY CONTROL REPORT

| ANALYTE | Total Petroleum Hydrocarbon | Total Petroleum Hydrocarbon |
|------------------|-----------------------------|-----------------------------|
| BATCH NO. | AC193-83 | 28-082897 |
| LCS LOT NO. | AC111-81 | AC033-388 |
| PREP METHOD | EPA 3550A | --- |
| PREPARED BY | CLT | --- |
| ANALYSIS METHOD | EPA 8015M | EPA 5030/8015M |
| ANALYZED BY | VHL | MGK |
| UNITS | mg/Kg | µg/Kg |
| METHOD BLANK | < 10.0 | < 50.0 |
| SPIKE LEVEL | 83.3 | 500 |
| SPK REC LIMITS | 30.0 - 150 | 70.0 - 130 |
| SPK RPD LIMITS | 25.0 | 25.0 |
| MS RESULT | 76.4 | 361 |
| MS RECOVERY % | 91.7 | 72.2 |
| MSD RESULT | 72.6 | 352 |
| MSD RECOVERY % | 87.2 | 70.4 |
| MS/MSD RPD % | 5.10 | 2.52 |
| BS RESULT | 68.9 | NA |
| BS RECOVERY % | 82.7 | NA |
| BSD RESULT | 75.2 | NA |
| BSD RECOVERY % | 90.3 | NA |
| BS/BSD RPD % | 8.74 | NA |
| DUP RPD LIMITS | --- | --- |
| DUPLICATE RPD % | NA | NA |
| LCS LEVEL | --- | 500 |
| LCS REC LIMITS | --- | 70.0 - 130 |
| LCS RESULT | SEE_BS | 441 |
| LCS RECOVERY % | SEE_BS | 88.2 |
| SPIKE SAMPLE ID | 10534-1 | 10229-3 |
| SAMPLE VALUE | < 10.0 | < 50.0 |
| DUP SAMPLE ID | --- | --- |
| DUP SAMPLE VAL/1 | --- | --- |
| DUP SAMPLE VAL/2 | --- | --- |

SEE_BS
NA

LCS and LCS Duplicate reported as BS and BSD.
Not applicable

Intertek Testing Services NA Inc.
1089 East Collins Boulevard Richardson, TX 75081
Telephone (972) 238-5591 Fax (972) 238-5592

Woodward-Clyde Consultants

500 12th Street, Suite 100, Oakland, CA 94607-4074
(510) 893-3600

Chain of Custody Record

PROJECT NO.

960163NA

SAMPLERS (Signature)

A. Ridley

DATE

TIME

SAMPLE NUMBER

Sample Matrix
(Soil, Water, Air)

EPA Method 8015M D₁

EPA Method

EPA Method

EPA Method

ANALYSES

HOLD

Number of Containers

REMARKS
(Sample preservation, handling procedures, etc.)

8-27-97 13:45

G-10A-1

X

10534+1

1

Glass Jars

8-27-97 13:55

G-10A-2

X

1

8-27 14:10

G-15A-1

X

2

1

8-27 14:15

G-15A-2

X

3

1

8-27 14:38

G-14A-1

X

4

1

8-27 14:40

G-14A-2

X

5

1

8-27 14:50

G-14A-3

X

1

TPH,
Motor
oil
EPA 8015M
with
Chromatograms
24 hr
Turnaround
Please

TEMPERATURE
RECORDED
WITH
ACTIVITY

COOLER TEMPERATURE
WHEN RECEIVED
°C

ORIGINAL

TOTAL
NUMBER OF
CONTAINERS

7

RELINQUISHED BY:
(Signature)

A. Ridley

DATE/TIME

8-28-97 08:00

RECEIVED BY:
(Signature)

[Signature]

RELINQUISHED BY:
(Signature)

[Signature]

DATE/TIME

8-28-97 12:27

RECEIVED BY:
(Signature)

[Signature]

METHOD OF SHIPMENT:

SHIPPED BY:
(Signature)

[Signature]

COURIER:
(Signature)

[Signature]

RECEIVED FOR LAB BY:
(Signature)

[Signature]

DATE/TIME

8/29/97 10:00



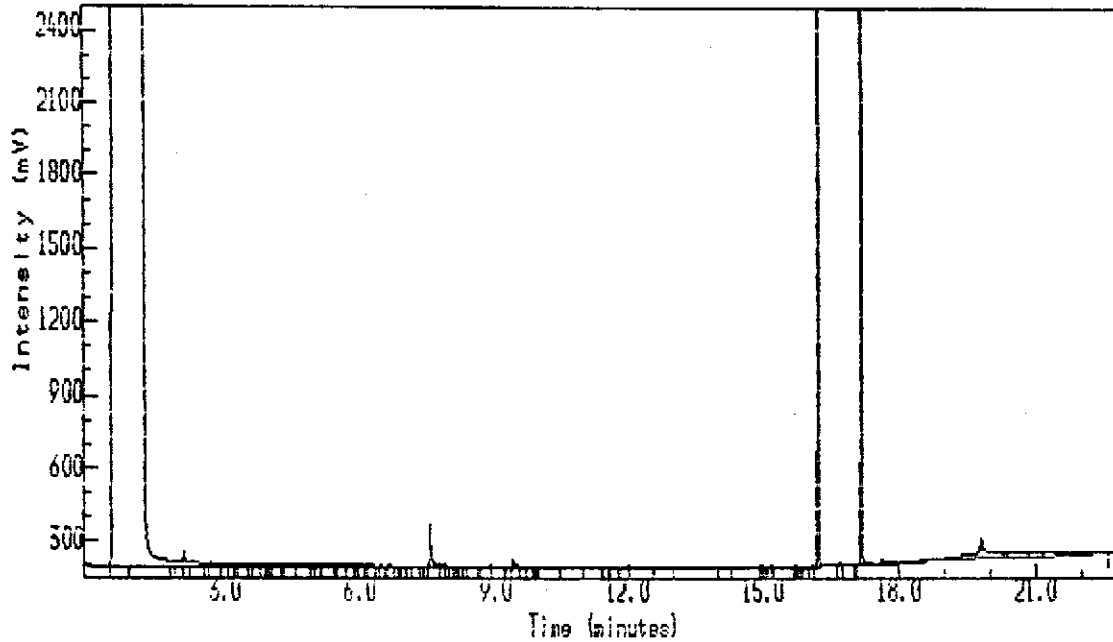
Intertek Testing Services
Environmental Laboratories

SAMPLES

Intertek Testing Services NA Inc.
1089 East Collins Boulevard Richardson, TX 75081
Telephone (972) 238-5591 Fax (972) 238-5592

Injection Report

Acquired on 2-SEP-1997 at 22:14



Intertek Testing Services - Environmental Laboratories

Analyst Name : VHLOGAN
 Lims Id :
 Comment : TPH BY 8015
 Method Title : TPH BY METHOD 8015 mod
 Sample Name : 10534-1 30/5 AC193-83
 Sample Id :
 Sample Type : Sample Amount=2.00000
 Bottle No : 26

TPH 210
 Sum 85.2%
 utl 9-3-97

PEAK INFORMATION

| RT mins | RT Exp | Area uVs | Mg/L-Mg/Kg | Peak name | RF slope | RF intercept |
|---------|--------|----------|------------|---------------|-------------|--------------|
| | 8.306 | 2062404 | 1.945 | TPH AS DIESEL | 176745.2500 | 0.0000 |
| 2.686 | 8.306 | 61817 | 0.058 | - C1 | 176745.2500 | 0.0000 |
| 2.792 | 8.306 | 206520 | 0.195 | - C1 | 176745.2500 | 0.0000 |
| 3.094 | 8.306 | 94617 | 0.089 | - C1 | 176745.2500 | 0.0000 |
| 3.192 | 8.306 | 67987 | 0.064 | - C1 | 176745.2500 | 0.0000 |
| 3.321 | 8.306 | 29134 | 0.027 | - C1 | 176745.2500 | 0.0000 |
| 3.348 | 8.306 | 36166 | 0.034 | - C1 | 176745.2500 | 0.0000 |
| 3.423 | 8.306 | 110129 | 0.104 | - C1 | 176745.2500 | 0.0000 |
| 3.668 | 8.306 | 45321 | 0.043 | - C1 | 176745.2500 | 0.0000 |
| 3.726 | 8.306 | 81082 | 0.076 | - C1 | 176745.2500 | 0.0000 |
| 3.908 | 8.306 | 59166 | 0.056 | - C1 | 176745.2500 | 0.0000 |
| 4.041 | 8.306 | 22439 | 0.021 | - C1 | 176745.2500 | 0.0000 |
| 4.112 | 8.306 | 27784 | 0.026 | - C1 | 176745.2500 | 0.0000 |

| RT mins | RT Exp | Area uVs | Mq/L-Mq/Kg | Peak name | RF slope | RF intercept |
|---------|--------|----------|------------|--------------|-------------|--------------|
| 4.174 | 8.306 | 77691 | 0.073 | - C1 | 176745.2500 | 0.0000 |
| 4.397 | 8.306 | 18081 | 0.017 | - C1 | 176745.2500 | 0.0000 |
| 4.503 | 8.306 | 96792 | 0.091 | - C1 | 176745.2500 | 0.0000 |
| 4.717 | 8.306 | 91989 | 0.087 | - C1 | 176745.2500 | 0.0000 |
| 5.037 | 8.306 | 29640 | 0.028 | - C1 | 176745.2500 | 0.0000 |
| 5.130 | 8.306 | 36793 | 0.035 | - C1 | 176745.2500 | 0.0000 |
| 5.268 | 8.306 | 58970 | 0.056 | - C1 | 176745.2500 | 0.0000 |
| 5.574 | 8.306 | 12028 | 0.011 | - C1 | 176745.2500 | 0.0000 |
| 5.632 | 8.306 | 33054 | 0.031 | - C1 | 176745.2500 | 0.0000 |
| 5.841 | 8.306 | 21850 | 0.021 | - C1 | 176745.2500 | 0.0000 |
| 5.992 | 8.306 | 13551 | 0.013 | - C1 | 176745.2500 | 0.0000 |
| 6.161 | 8.306 | 15011 | 0.014 | - C1 | 176745.2500 | 0.0000 |
| 6.241 | 8.306 | 7919 | 0.007 | - C1 | 176745.2500 | 0.0000 |
| 6.401 | 8.306 | 29161 | 0.027 | - C1 | 176745.2500 | 0.0000 |
| 6.499 | 8.306 | 6982 | 0.007 | - C1 | 176745.2500 | 0.0000 |
| 6.574 | 8.306 | 15954 | 0.015 | - C1 | 176745.2500 | 0.0000 |
| 6.703 | 8.306 | 5614 | 0.005 | - C1 | 176745.2500 | 0.0000 |
| 6.779 | 8.306 | 20294 | 0.019 | - C1 | 176745.2500 | 0.0000 |
| 6.908 | 8.306 | 4439 | 0.004 | - C1 | 176745.2500 | 0.0000 |
| 6.988 | 8.306 | 4485 | 0.004 | - C1 | 176745.2500 | 0.0000 |
| 7.050 | 8.306 | 11628 | 0.011 | - C1 | 176745.2500 | 0.0000 |
| 7.179 | 8.306 | 10682 | 0.010 | - C1 | 176745.2500 | 0.0000 |
| 7.299 | 8.306 | 5957 | 0.006 | - C1 | 176745.2500 | 0.0000 |
| 7.508 | 8.306 | 3184 | 0.003 | - C1 | 176745.2500 | 0.0000 |
| 7.579 | 8.306 | 3006 | 0.003 | - C1 | 176745.2500 | 0.0000 |
| 7.672 | 8.306 | 402102 | 0.379 | - C1 | 176745.2500 | 0.0000 |
| 7.934 | 8.306 | 30014 | 0.028 | - C1 | 176745.2500 | 0.0000 |
| 8.010 | 8.306 | 8667 | 0.008 | - C1 | 176745.2500 | 0.0000 |
| 8.108 | 8.306 | 4564 | 0.004 | - C1 | 176745.2500 | 0.0000 |
| 8.188 | 8.306 | 2534 | 0.002 | - C1 | 176745.2500 | 0.0000 |
| 8.250 | 8.306 | 2934 | 0.003 | - C1 | 176745.2500 | 0.0000 |
| 8.339 | 8.306 | 6525 | 0.006 | - C1 | 176745.2500 | 0.0000 |
| 8.454 | 8.306 | 1406 | 0.001 | - C1 | 176745.2500 | 0.0000 |
| 8.717 | 8.306 | 5243 | 0.005 | - C1 | 176745.2500 | 0.0000 |
| 9.312 | 8.306 | 880 | 8.299E-4 | - C1 | 176745.2500 | 0.0000 |
| 9.477 | 8.306 | 102059 | 0.096 | - C1 | 176745.2500 | 0.0000 |
| 9.632 | 8.306 | 13069 | 0.012 | - C1 | 176745.2500 | 0.0000 |
| 9.948 | 8.306 | 1695 | 0.002 | - C1 | 176745.2500 | 0.0000 |
| 10.032 | 8.306 | 452 | 4.265E-4 | - C1 | 176745.2500 | 0.0000 |
| 10.512 | 8.306 | 522 | 4.918E-4 | - C1 | 176745.2500 | 0.0000 |
| 11.437 | 8.306 | 569 | 5.368E-4 | - C1 | 176745.2500 | 0.0000 |
| 11.583 | 8.306 | 868 | 8.186E-4 | - C1 | 176745.2500 | 0.0000 |
| 11.788 | 8.306 | 847 | 7.986E-4 | - C1 | 176745.2500 | 0.0000 |
| 12.561 | 8.306 | 537 | 5.062E-4 | - C1 | 176745.2500 | 0.0000 |
| 16.223 | 16.287 | 7205460 | 8.065 | n-OCTACOSANE | 148898.0156 | 0.0000 |
| 17.170 | 17.233 | 6749309 | 7.100 | TRIACONTANE | 158425.2031 | 0.0000 |

Totals

| | | |
|-------------|-----------|--------|
| Unknowns | 412059136 | N/A |
| Quantified | 16017172 | 17.111 |
| Grand Total | 428076320 | 17.111 |

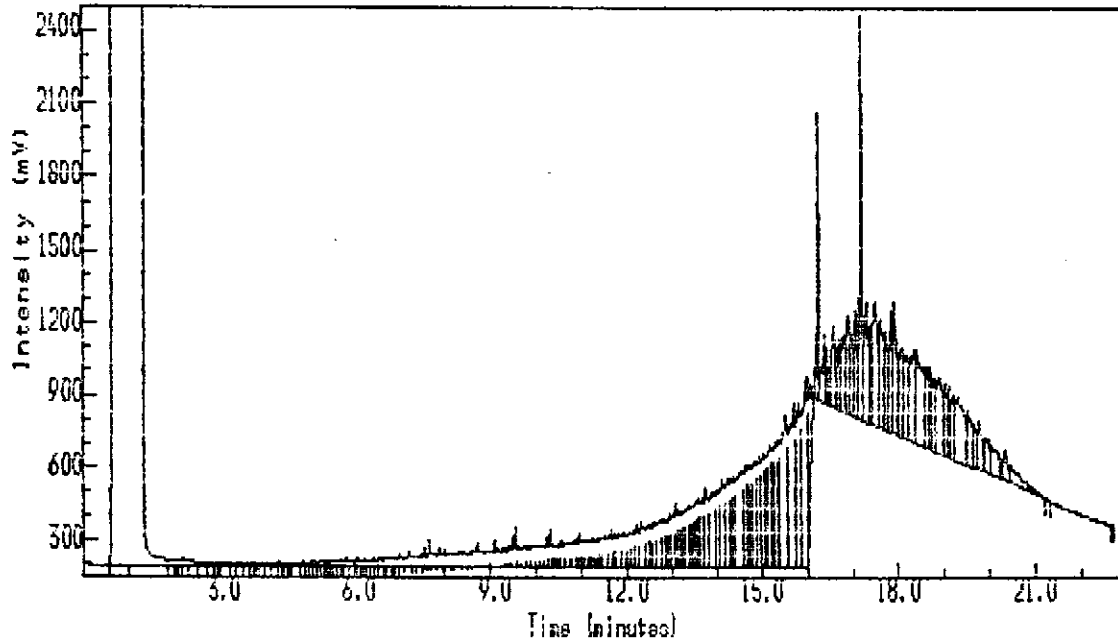
ANALYSIS SUMMARY

Method..... DRO
Run sequence..... DRO
Calibration..... DR00397
External standard calibration using area
Calibration last modified on 31-JUL-1997 at 13:47

Uncalibrated peaks use user factor (0.0000)

Injection Report

Acquired on 2-SEP-1997 at 22:44



Intertek Testing Services - Environmental Laboratories

Analyst Name : VHLOGAN
 Lims Id :
 Comment : TPH BY 8015
 Method Title : TPH BY METHOD 8015 mod
 Sample Name : 10534-2DIL 1:5 30/5
 Sample Id :
 Sample Type : Sample Amount=2.00000
 Bottle No : 27

AC193-83
 Motor Oil 1620 mg/kg
~~Extended 1700 mg/kg~~
 sum 272%

Dil 5

PEAK INFORMATION

| RT mins | RT Exp | Area uVs | Mg/L-Mg/Kg | Peak name | RF slope | RF intercept |
|---------|--------|----------|------------|---------------|-------------|--------------|
| 8.306 | | 51587128 | 243.227 | TPH AS DIESEL | 176745.2500 | 0.0000 |
| 2.779 | 8.306 | 90803 | 0.428 | - C1 | 176745.2500 | 0.0000 |
| 2.926 | 8.306 | 36873 | 0.174 | - C1 | 176745.2500 | 0.0000 |
| 3.001 | 8.306 | 37308 | 0.176 | - C1 | 176745.2500 | 0.0000 |
| 3.068 | 8.306 | 103750 | 0.489 | - C1 | 176745.2500 | 0.0000 |
| 3.294 | 8.306 | 50218 | 0.237 | - C1 | 176745.2500 | 0.0000 |
| 3.366 | 8.306 | 18025 | 0.085 | - C1 | 176745.2500 | 0.0000 |
| 3.446 | 8.306 | 74091 | 0.349 | - C1 | 176745.2500 | 0.0000 |
| 3.597 | 8.306 | 61461 | 0.290 | - C1 | 176745.2500 | 0.0000 |
| 3.703 | 8.306 | 37088 | 0.175 | - C1 | 176745.2500 | 0.0000 |
| 3.819 | 8.306 | 37093 | 0.175 | - C1 | 176745.2500 | 0.0000 |
| 3.859 | 8.306 | 22941 | 0.108 | - C1 | 176745.2500 | 0.0000 |
| 3.974 | 8.306 | 50971 | 0.240 | - C1 | 176745.2500 | 0.0000 |

Utz 9-3-97

| RT mins | RT Exp | Area uVs | Mg/L-Mg/Kg | Peak name | RF slope | RF intercept |
|---------|--------|----------|------------|-----------|-------------|--------------|
| 4.103 | 8.306 | 60811 | 0.287 | - C1 | 176745.2500 | 0.0000 |
| 4.174 | 8.306 | 73174 | 0.345 | - C1 | 176745.2500 | 0.0000 |
| 4.339 | 8.306 | 56843 | 0.268 | - C1 | 176745.2500 | 0.0000 |
| 4.428 | 8.306 | 28729 | 0.135 | - C1 | 176745.2500 | 0.0000 |
| 4.490 | 8.306 | 39881 | 0.188 | - C1 | 176745.2500 | 0.0000 |
| 4.579 | 8.306 | 31674 | 0.149 | - C1 | 176745.2500 | 0.0000 |
| 4.619 | 8.306 | 21590 | 0.102 | - C1 | 176745.2500 | 0.0000 |
| 4.748 | 8.306 | 85516 | 0.403 | - C1 | 176745.2500 | 0.0000 |
| 4.886 | 8.306 | 81827 | 0.386 | - C1 | 176745.2500 | 0.0000 |
| 4.970 | 8.306 | 53702 | 0.253 | - C1 | 176745.2500 | 0.0000 |
| 5.072 | 8.306 | 69940 | 0.330 | - C1 | 176745.2500 | 0.0000 |
| 5.126 | 8.306 | 65820 | 0.310 | - C1 | 176745.2500 | 0.0000 |
| 5.259 | 8.306 | 78563 | 0.370 | - C1 | 176745.2500 | 0.0000 |
| 5.321 | 8.306 | 69078 | 0.326 | - C1 | 176745.2500 | 0.0000 |
| 5.397 | 8.306 | 44481 | 0.210 | - C1 | 176745.2500 | 0.0000 |
| 5.450 | 8.306 | 37422 | 0.176 | - C1 | 176745.2500 | 0.0000 |
| 5.521 | 8.306 | 58557 | 0.276 | - C1 | 176745.2500 | 0.0000 |
| 5.570 | 8.306 | 73143 | 0.345 | - C1 | 176745.2500 | 0.0000 |
| 5.677 | 8.306 | 91008 | 0.429 | - C1 | 176745.2500 | 0.0000 |
| 5.743 | 8.306 | 74030 | 0.349 | - C1 | 176745.2500 | 0.0000 |
| 5.872 | 8.306 | 142558 | 0.672 | - C1 | 176745.2500 | 0.0000 |
| 6.050 | 8.306 | 183782 | 0.867 | - C1 | 176745.2500 | 0.0000 |
| 6.099 | 8.306 | 123594 | 0.583 | - C1 | 176745.2500 | 0.0000 |
| 6.188 | 8.306 | 73764 | 0.348 | - C1 | 176745.2500 | 0.0000 |
| 6.246 | 8.306 | 105947 | 0.500 | - C1 | 176745.2500 | 0.0000 |
| 6.317 | 8.306 | 99842 | 0.471 | - C1 | 176745.2500 | 0.0000 |
| 6.446 | 8.306 | 154091 | 0.727 | - C1 | 176745.2500 | 0.0000 |
| 6.494 | 8.306 | 90064 | 0.425 | - C1 | 176745.2500 | 0.0000 |
| 6.592 | 8.306 | 203543 | 0.960 | - C1 | 176745.2500 | 0.0000 |
| 6.694 | 8.306 | 82601 | 0.389 | - C1 | 176745.2500 | 0.0000 |
| 6.806 | 8.306 | 227417 | 1.072 | - C1 | 176745.2500 | 0.0000 |
| 6.886 | 8.306 | 148072 | 0.698 | - C1 | 176745.2500 | 0.0000 |
| 6.966 | 8.306 | 139804 | 0.659 | - C1 | 176745.2500 | 0.0000 |
| 7.019 | 8.306 | 305181 | 1.439 | - C1 | 176745.2500 | 0.0000 |
| 7.223 | 8.306 | 393493 | 1.855 | - C1 | 176745.2500 | 0.0000 |
| 7.321 | 8.306 | 257633 | 1.215 | - C1 | 176745.2500 | 0.0000 |
| 7.481 | 8.306 | 318575 | 1.502 | - C1 | 176745.2500 | 0.0000 |
| 7.566 | 8.306 | 284517 | 1.341 | - C1 | 176745.2500 | 0.0000 |
| 7.619 | 8.306 | 131851 | 0.622 | - C1 | 176745.2500 | 0.0000 |
| 7.668 | 8.306 | 289858 | 1.367 | - C1 | 176745.2500 | 0.0000 |
| 7.730 | 8.306 | 311884 | 1.470 | - C1 | 176745.2500 | 0.0000 |
| 7.894 | 8.306 | 475882 | 2.244 | - C1 | 176745.2500 | 0.0000 |
| 8.006 | 8.306 | 284355 | 1.341 | - C1 | 176745.2500 | 0.0000 |
| 8.139 | 8.306 | 321521 | 1.516 | - C1 | 176745.2500 | 0.0000 |
| 8.174 | 8.306 | 177152 | 0.835 | - C1 | 176745.2500 | 0.0000 |
| 8.352 | 8.306 | 641843 | 3.026 | - C1 | 176745.2500 | 0.0000 |
| 8.441 | 8.306 | 415833 | 1.961 | - C1 | 176745.2500 | 0.0000 |
| 8.561 | 8.306 | 305998 | 1.443 | - C1 | 176745.2500 | 0.0000 |
| 8.672 | 8.306 | 322322 | 1.520 | - C1 | 176745.2500 | 0.0000 |
| 8.721 | 8.306 | 414021 | 1.952 | - C1 | 176745.2500 | 0.0000 |
| 8.806 | 8.306 | 294699 | 1.389 | - C1 | 176745.2500 | 0.0000 |
| 8.908 | 8.306 | 254347 | 1.199 | - C1 | 176745.2500 | 0.0000 |
| 8.961 | 8.306 | 230603 | 1.087 | - C1 | 176745.2500 | 0.0000 |

| RT mins | RT Exp | Area u/s | Mg/L-Mg/Kg | Peak name | RF slope | RF intercept |
|---------|--------|----------|------------|-----------|-------------|--------------|
| 9.014 | 8.306 | 226857 | 1.070 | - C1 | 176745.2500 | 0.0000 |
| 9.112 | 8.306 | 669955 | 3.159 | - C1 | 176745.2500 | 0.0000 |
| 9.299 | 8.306 | 488059 | 2.301 | - C1 | 176745.2500 | 0.0000 |
| 9.343 | 8.306 | 236842 | 1.117 | - C1 | 176745.2500 | 0.0000 |
| 9.410 | 8.306 | 297327 | 1.402 | - C1 | 176745.2500 | 0.0000 |
| 9.454 | 8.306 | 222301 | 1.048 | - C1 | 176745.2500 | 0.0000 |
| 9.552 | 8.306 | 737578 | 3.478 | - C1 | 176745.2500 | 0.0000 |
| 9.619 | 8.306 | 425922 | 2.008 | - C1 | 176745.2500 | 0.0000 |
| 9.748 | 8.306 | 503394 | 2.373 | - C1 | 176745.2500 | 0.0000 |
| 9.846 | 8.306 | 422781 | 1.993 | - C1 | 176745.2500 | 0.0000 |
| 9.952 | 8.306 | 673241 | 3.174 | - C1 | 176745.2500 | 0.0000 |
| 10.054 | 8.306 | 370313 | 1.746 | - C1 | 176745.2500 | 0.0000 |
| 10.157 | 8.306 | 529617 | 2.497 | - C1 | 176745.2500 | 0.0000 |
| 10.259 | 8.306 | 584559 | 2.756 | - C1 | 176745.2500 | 0.0000 |
| 10.326 | 8.306 | 508770 | 2.399 | - C1 | 176745.2500 | 0.0000 |
| 10.374 | 8.306 | 304920 | 1.438 | - C1 | 176745.2500 | 0.0000 |
| 10.432 | 8.306 | 370315 | 1.746 | - C1 | 176745.2500 | 0.0000 |
| 10.508 | 8.306 | 280787 | 1.324 | - C1 | 176745.2500 | 0.0000 |
| 10.579 | 8.306 | 505549 | 2.384 | - C1 | 176745.2500 | 0.0000 |
| 10.646 | 8.306 | 292185 | 1.378 | - C1 | 176745.2500 | 0.0000 |
| 10.717 | 8.306 | 501996 | 2.367 | - C1 | 176745.2500 | 0.0000 |
| 10.779 | 8.306 | 330837 | 1.560 | - C1 | 176745.2500 | 0.0000 |
| 10.877 | 8.306 | 585493 | 2.761 | - C1 | 176745.2500 | 0.0000 |
| 10.917 | 8.306 | 328628 | 1.549 | - C1 | 176745.2500 | 0.0000 |
| 10.970 | 8.306 | 564653 | 2.662 | - C1 | 176745.2500 | 0.0000 |
| 11.041 | 8.306 | 386436 | 1.822 | - C1 | 176745.2500 | 0.0000 |
| 11.108 | 8.306 | 472788 | 2.229 | - C1 | 176745.2500 | 0.0000 |
| 11.179 | 8.306 | 419150 | 1.976 | - C1 | 176745.2500 | 0.0000 |
| 11.250 | 8.306 | 517606 | 2.440 | - C1 | 176745.2500 | 0.0000 |
| 11.312 | 8.306 | 343090 | 1.618 | - C1 | 176745.2500 | 0.0000 |
| 11.366 | 8.306 | 322246 | 1.519 | - C1 | 176745.2500 | 0.0000 |
| 11.441 | 8.306 | 507400 | 2.392 | - C1 | 176745.2500 | 0.0000 |
| 11.517 | 8.306 | 911632 | 4.298 | - C1 | 176745.2500 | 0.0000 |
| 11.650 | 8.306 | 795507 | 3.751 | - C1 | 176745.2500 | 0.0000 |
| 11.717 | 8.306 | 639249 | 3.014 | - C1 | 176745.2500 | 0.0000 |
| 11.801 | 8.306 | 785046 | 3.701 | - C1 | 176745.2500 | 0.0000 |
| 11.943 | 8.306 | 1054320 | 4.971 | - C1 | 176745.2500 | 0.0000 |
| 12.059 | 8.306 | 786017 | 3.706 | - C1 | 176745.2500 | 0.0000 |
| 12.157 | 8.306 | 819354 | 3.863 | - C1 | 176745.2500 | 0.0000 |
| 12.206 | 8.306 | 694116 | 3.273 | - C1 | 176745.2500 | 0.0000 |
| 12.308 | 8.306 | 1546293 | 7.291 | - C1 | 176745.2500 | 0.0000 |
| 12.459 | 8.306 | 876764 | 4.134 | - C1 | 176745.2500 | 0.0000 |
| 12.508 | 8.306 | 525132 | 2.476 | - C1 | 176745.2500 | 0.0000 |
| 12.592 | 8.306 | 1141073 | 5.380 | - C1 | 176745.2500 | 0.0000 |
| 12.717 | 8.306 | 1107522 | 5.222 | - C1 | 176745.2500 | 0.0000 |
| 12.783 | 8.306 | 1242307 | 5.857 | - C1 | 176745.2500 | 0.0000 |
| 12.872 | 8.306 | 603898 | 2.847 | - C1 | 176745.2500 | 0.0000 |
| 12.930 | 8.306 | 787843 | 3.715 | - C1 | 176745.2500 | 0.0000 |
| 13.019 | 8.306 | 981897 | 4.630 | - C1 | 176745.2500 | 0.0000 |
| 13.068 | 8.306 | 1228105 | 5.790 | - C1 | 176745.2500 | 0.0000 |
| 13.139 | 8.306 | 648311 | 3.057 | - C1 | 176745.2500 | 0.0000 |
| 13.197 | 8.306 | 827901 | 3.903 | - C1 | 176745.2500 | 0.0000 |
| 13.268 | 8.306 | 1093768 | 5.157 | - C1 | 176745.2500 | 0.0000 |

| RT mins | RT Exp | Area uVs | Mg/L-Mg/Kg | Peak name | RF slope | RF intercept |
|---------|--------|----------|------------|--------------|-------------|--------------|
| 13.339 | 8.306 | 946586 | 4.463 | - C1 | 176745.2500 | 0.0000 |
| 13.388 | 8.306 | 966300 | 4.556 | - C1 | 176745.2500 | 0.0000 |
| 13.459 | 8.306 | 911565 | 4.298 | - C1 | 176745.2500 | 0.0000 |
| 13.534 | 8.306 | 1241190 | 5.852 | - C1 | 176745.2500 | 0.0000 |
| 13.579 | 8.306 | 926227 | 4.367 | - C1 | 176745.2500 | 0.0000 |
| 13.668 | 8.306 | 1567018 | 7.388 | - C1 | 176745.2500 | 0.0000 |
| 13.739 | 8.306 | 1977547 | 9.324 | - C1 | 176745.2500 | 0.0000 |
| 16.219 | 16.287 | 2052093 | 11.485 | n-OCTACOSANE | 148898.0156 | 0.0000 |
| 17.166 | 17.233 | 4309441 | 22.668 | TRIACONTANE | 158425.2031 | 0.0000 |

| Totals | | |
|-------------|-----------|---------|
| Unknowns | 538154304 | N/A |
| Quantified | 57948660 | 277.380 |
| Grand Total | 596102976 | 277.380 |

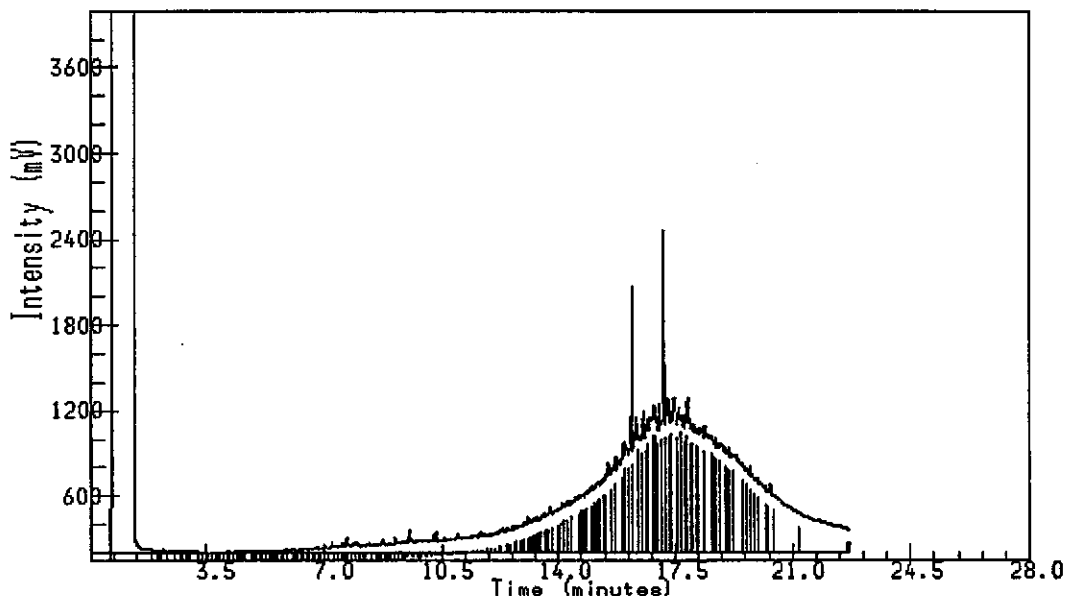
ANALYSIS SUMMARY

Method..... DR0
 Run sequence..... DR0
 Calibration..... DR00397
 External standard calibration using area
 Calibration last modified on 31-JUL-1997 at 13:47

Uncalibrated peaks use user factor (0.0000)

Injectio

Acquired on 2-SEP-1997 at 22:44



Intertek Testing Services - Environmental Laboratories

Analyst Name : VHLOGAN
 Lims Id :
 Comment : TPH BY 8015
 Method Title : TPH BY METHOD 8015 mod
 Sample Name : 10534-2DIL 1:5 30/5 AC193-83
 Sample Id :
 Sample Type : Sample Amount=2.00000
 Bottle No : 27

PEAK INFORMATION

| RT mins | RT Corr | RT Exp | Hght uV | Area uVs | Mq/L-Mq/Kg | Peak name | RF slope | RF intercept |
|---------|---------|--------|----------|-----------|------------|-----------|-------------|--------------|
| | | 15.630 | 54488664 | 353927296 | 1621.467 | MOTOR OIL | 181896.6875 | 0.0000 |
| 9.748 | 9.748 | 15.630 | 85795 | 509344 | 2.333 | - C1 | 181896.6875 | 0.0000 |
| 9.846 | 9.846 | 15.630 | 82836 | 427740 | 1.950 | - C1 | 181896.6875 | 0.0000 |
| 9.952 | 9.952 | 15.630 | 87473 | 680927 | 3.120 | - C1 | 181896.6875 | 0.0000 |
| 10.054 | 10.054 | 15.630 | 84007 | 374528 | 1.716 | - C1 | 181896.6875 | 0.0000 |
| 10.157 | 10.157 | 15.630 | 85950 | 535567 | 2.454 | - C1 | 181896.6875 | 0.0000 |
| 10.259 | 10.259 | 15.630 | 116963 | 590509 | 2.705 | - C1 | 181896.6875 | 0.0000 |
| 10.326 | 10.326 | 15.630 | 148950 | 513233 | 2.351 | - C1 | 181896.6875 | 0.0000 |
| 10.374 | 10.374 | 15.630 | 90737 | 308143 | 1.412 | - C1 | 181896.6875 | 0.0000 |
| 10.432 | 10.432 | 15.630 | 89490 | 374282 | 1.715 | - C1 | 181896.6875 | 0.0000 |
| 10.508 | 10.508 | 15.630 | 90778 | 283762 | 1.300 | - C1 | 181896.6875 | 0.0000 |
| 10.579 | 10.579 | 15.630 | 106275 | 510508 | 2.339 | - C1 | 181896.6875 | 0.0000 |

VH 9-3-97

| RT mins | RT Corr | RT Exp | Hght uV | Area uVs | Mg/L-Mg/Kg | Peak name | RF slope | RF intercept |
|---------|---------|--------|---------|----------|------------|-----------|-------------|--------------|
| 10.646 | 10.646 | 15.630 | 96176 | 295160 | 1.352 | - C1 | 181896.6875 | 0.0000 |
| 10.717 | 10.717 | 15.630 | 101461 | 506955 | 2.323 | - C1 | 181896.6875 | 0.0000 |
| 10.779 | 10.779 | 15.630 | 99261 | 334060 | 1.530 | - C1 | 181896.6875 | 0.0000 |
| 10.877 | 10.877 | 15.630 | 103712 | 590948 | 2.707 | - C1 | 181896.6875 | 0.0000 |
| 10.917 | 10.917 | 15.630 | 111783 | 331603 | 1.519 | - C1 | 181896.6875 | 0.0000 |
| 10.970 | 10.970 | 15.630 | 143638 | 569364 | 2.608 | - C1 | 181896.6875 | 0.0000 |
| 11.041 | 11.041 | 15.630 | 106940 | 389907 | 1.786 | - C1 | 181896.6875 | 0.0000 |
| 11.108 | 11.108 | 15.630 | 108955 | 477003 | 2.185 | - C1 | 181896.6875 | 0.0000 |
| 11.179 | 11.179 | 15.630 | 108073 | 422869 | 1.937 | - C1 | 181896.6875 | 0.0000 |
| 11.250 | 11.250 | 15.630 | 112715 | 522069 | 2.392 | - C1 | 181896.6875 | 0.0000 |
| 11.312 | 11.312 | 15.630 | 110872 | 346065 | 1.585 | - C1 | 181896.6875 | 0.0000 |
| 11.366 | 11.366 | 15.630 | 117233 | 324974 | 1.489 | - C1 | 181896.6875 | 0.0000 |
| 11.441 | 11.441 | 15.630 | 116303 | 511615 | 2.344 | - C1 | 181896.6875 | 0.0000 |
| 11.517 | 11.517 | 15.630 | 124769 | 918822 | 4.209 | - C1 | 181896.6875 | 0.0000 |
| 11.650 | 11.650 | 15.630 | 147390 | 801457 | 3.672 | - C1 | 181896.6875 | 0.0000 |
| 11.717 | 11.717 | 15.630 | 138691 | 643960 | 2.950 | - C1 | 181896.6875 | 0.0000 |
| 11.801 | 11.801 | 15.630 | 133772 | 790748 | 3.623 | - C1 | 181896.6875 | 0.0000 |
| 11.943 | 11.943 | 15.630 | 137246 | 1061758 | 4.864 | - C1 | 181896.6875 | 0.0000 |
| 12.059 | 12.059 | 15.630 | 138509 | 791471 | 3.626 | - C1 | 181896.6875 | 0.0000 |
| 12.157 | 12.157 | 15.630 | 150461 | 824809 | 3.779 | - C1 | 181896.6875 | 0.0000 |
| 12.206 | 12.206 | 15.630 | 172644 | 698331 | 3.199 | - C1 | 181896.6875 | 0.0000 |
| 12.308 | 12.308 | 15.630 | 183003 | 1555466 | 7.126 | - C1 | 181896.6875 | 0.0000 |
| 12.459 | 12.459 | 15.630 | 175004 | 881722 | 4.039 | - C1 | 181896.6875 | 0.0000 |
| 12.508 | 12.508 | 15.630 | 169241 | 528107 | 2.419 | - C1 | 181896.6875 | 0.0000 |
| 12.592 | 12.592 | 15.630 | 187664 | 1147271 | 5.256 | - C1 | 181896.6875 | 0.0000 |
| 12.717 | 12.717 | 15.630 | 194783 | 1113224 | 5.100 | - C1 | 181896.6875 | 0.0000 |
| 12.783 | 12.783 | 15.630 | 192361 | 1248506 | 5.720 | - C1 | 181896.6875 | 0.0000 |
| 12.872 | 12.872 | 15.630 | 196405 | 606873 | 2.780 | - C1 | 181896.6875 | 0.0000 |
| 12.930 | 12.930 | 15.630 | 211592 | 791562 | 3.626 | - C1 | 181896.6875 | 0.0000 |
| 13.019 | 13.019 | 15.630 | 212948 | 986360 | 4.519 | - C1 | 181896.6875 | 0.0000 |
| 13.068 | 13.068 | 15.630 | 258505 | 1233064 | 5.649 | - C1 | 181896.6875 | 0.0000 |
| 13.139 | 13.139 | 15.630 | 230963 | 651038 | 2.983 | - C1 | 181896.6875 | 0.0000 |
| 13.197 | 13.197 | 15.630 | 229847 | 831372 | 3.809 | - C1 | 181896.6875 | 0.0000 |
| 13.268 | 13.268 | 15.630 | 240610 | 1098231 | 5.031 | - C1 | 181896.6875 | 0.0000 |
| 13.339 | 13.339 | 15.630 | 253358 | 950305 | 4.354 | - C1 | 181896.6875 | 0.0000 |
| 13.388 | 13.388 | 15.630 | 250797 | 970019 | 4.444 | - C1 | 181896.6875 | 0.0000 |
| 13.459 | 13.459 | 15.630 | 254004 | 915036 | 4.192 | - C1 | 181896.6875 | 0.0000 |
| 13.534 | 13.534 | 15.630 | 276864 | 1245653 | 5.707 | - C1 | 181896.6875 | 0.0000 |
| 13.579 | 13.579 | 15.630 | 281563 | 929450 | 4.258 | - C1 | 181896.6875 | 0.0000 |
| 13.668 | 13.668 | 15.630 | 277855 | 1572473 | 7.204 | - C1 | 181896.6875 | 0.0000 |
| 13.739 | 13.739 | 15.630 | 321405 | 1983993 | 9.089 | - C1 | 181896.6875 | 0.0000 |
| 13.934 | 13.934 | 15.630 | 305839 | 2800036 | 12.828 | - C1 | 181896.6875 | 0.0000 |
| 14.019 | 14.019 | 15.630 | 313833 | 1475979 | 6.762 | - C1 | 181896.6875 | 0.0000 |
| 14.112 | 14.112 | 15.630 | 353508 | 2704528 | 12.390 | - C1 | 181896.6875 | 0.0000 |
| 14.250 | 14.250 | 15.630 | 359762 | 2265354 | 10.378 | - C1 | 181896.6875 | 0.0000 |
| 14.334 | 14.334 | 15.630 | 362816 | 1667383 | 7.639 | - C1 | 181896.6875 | 0.0000 |
| 14.388 | 14.388 | 15.630 | 367808 | 1039401 | 4.762 | - C1 | 181896.6875 | 0.0000 |
| 14.530 | 14.530 | 15.630 | 395324 | 4196266 | 19.225 | - C1 | 181896.6875 | 0.0000 |
| 14.663 | 14.663 | 15.630 | 412517 | 2403553 | 11.012 | - C1 | 181896.6875 | 0.0000 |
| 14.721 | 14.721 | 15.630 | 413406 | 1618095 | 7.413 | - C1 | 181896.6875 | 0.0000 |
| 14.770 | 14.770 | 15.630 | 414364 | 1193274 | 5.467 | - C1 | 181896.6875 | 0.0000 |
| 14.846 | 14.846 | 15.630 | 433374 | 2349839 | 10.765 | - C1 | 181896.6875 | 0.0000 |
| 14.948 | 14.948 | 15.630 | 459704 | 2449758 | 11.223 | - C1 | 181896.6875 | 0.0000 |

| RT mins | RT Corr | RT Exp | Hght uV | Area uVs | Mq/L-Mq/Kg | Peak name | RF slope | RF intercept |
|---------|---------|--------|---------|----------|------------|-----------|-------------|--------------|
| 15.032 | 15.032 | 15.630 | 473633 | 2768887 | 12.685 | - C1 | 181896.6875 | 0.0000 |
| 15.103 | 15.103 | 15.630 | 464406 | 1832173 | 8.394 | - C1 | 181896.6875 | 0.0000 |
| 15.179 | 15.179 | 15.630 | 505149 | 2578420 | 11.813 | - C1 | 181896.6875 | 0.0000 |
| 15.241 | 15.241 | 15.630 | 495226 | 1820754 | 8.342 | - C1 | 181896.6875 | 0.0000 |
| 15.330 | 15.330 | 15.630 | 515299 | 2404277 | 11.015 | - C1 | 181896.6875 | 0.0000 |
| 15.370 | 15.370 | 15.630 | 527160 | 1642156 | 7.523 | - C1 | 181896.6875 | 0.0000 |
| 15.512 | 15.512 | 15.630 | 634201 | 5928908 | 27.162 | - C1 | 181896.6875 | 0.0000 |
| 15.699 | 15.699 | 15.630 | 672743 | 6151194 | 28.181 | - C1 | 181896.6875 | 0.0000 |
| 15.788 | 15.788 | 15.630 | 678642 | 5017467 | 22.987 | - C1 | 181896.6875 | 0.0000 |
| 15.988 | 15.988 | 15.630 | 783353 | 6317068 | 28.941 | - C1 | 181896.6875 | 0.0000 |
| 16.072 | 16.072 | 15.630 | 752242 | 5177202 | 23.719 | - C1 | 181896.6875 | 0.0000 |
| 16.219 | 16.219 | 15.630 | 1868408 | 7370438 | 33.767 | - C1 | 181896.6875 | 0.0000 |
| 16.361 | 16.361 | 15.630 | 962846 | 6858461 | 31.421 | - C1 | 181896.6875 | 0.0000 |
| 16.410 | 16.410 | 15.630 | 908005 | 2689350 | 12.321 | - C1 | 181896.6875 | 0.0000 |
| 16.450 | 16.450 | 15.630 | 829401 | 3261978 | 14.944 | - C1 | 181896.6875 | 0.0000 |
| 16.561 | 16.561 | 15.630 | 995698 | 6926509 | 31.733 | - C1 | 181896.6875 | 0.0000 |
| 16.677 | 16.677 | 15.630 | 944882 | 5344181 | 24.484 | - C1 | 181896.6875 | 0.0000 |
| 16.792 | 16.792 | 15.630 | 963802 | 6176503 | 28.297 | - C1 | 181896.6875 | 0.0000 |
| 16.899 | 16.899 | 15.630 | 1040564 | 6001923 | 27.497 | - C1 | 181896.6875 | 0.0000 |
| 16.979 | 16.979 | 15.630 | 958500 | 5161970 | 23.649 | - C1 | 181896.6875 | 0.0000 |
| 17.050 | 17.050 | 15.630 | 1056485 | 5523396 | 25.305 | - C1 | 181896.6875 | 0.0000 |
| 17.166 | 17.166 | 15.630 | 2265918 | 8690138 | 39.813 | - C1 | 181896.6875 | 0.0000 |
| 17.299 | 17.299 | 15.630 | 1094084 | 7939546 | 36.374 | - C1 | 181896.6875 | 0.0000 |
| 17.379 | 17.379 | 15.630 | 994475 | 4059818 | 18.599 | - C1 | 181896.6875 | 0.0000 |
| 17.477 | 17.477 | 15.630 | 1090596 | 8886509 | 40.712 | - C1 | 181896.6875 | 0.0000 |
| 17.597 | 17.597 | 15.630 | 1023741 | 6949291 | 31.837 | - C1 | 181896.6875 | 0.0000 |
| 17.712 | 17.712 | 15.630 | 972095 | 5696181 | 26.096 | - C1 | 181896.6875 | 0.0000 |
| 17.846 | 17.846 | 15.630 | 1061216 | 6090657 | 27.903 | - C1 | 181896.6875 | 0.0000 |
| 17.903 | 17.903 | 15.630 | 1088383 | 5877493 | 26.927 | - C1 | 181896.6875 | 0.0000 |
| 18.001 | 18.001 | 15.630 | 886610 | 3037179 | 13.914 | - C1 | 181896.6875 | 0.0000 |
| 18.081 | 18.081 | 15.630 | 908122 | 4947768 | 22.667 | - C1 | 181896.6875 | 0.0000 |
| 18.192 | 18.192 | 15.630 | 874684 | 5498429 | 25.190 | - C1 | 181896.6875 | 0.0000 |
| 18.352 | 18.352 | 15.630 | 893581 | 8668205 | 39.712 | - C1 | 181896.6875 | 0.0000 |
| 18.410 | 18.410 | 15.630 | 891101 | 9957103 | 45.617 | - C1 | 181896.6875 | 0.0000 |
| 18.614 | 18.614 | 15.630 | 823908 | 4471543 | 20.486 | - C1 | 181896.6875 | 0.0000 |
| 18.699 | 18.699 | 15.630 | 813034 | 3337510 | 15.290 | - C1 | 181896.6875 | 0.0000 |
| 18.779 | 18.779 | 15.630 | 774293 | 4242453 | 19.436 | - C1 | 181896.6875 | 0.0000 |
| 18.890 | 18.890 | 15.630 | 776732 | 7379601 | 33.809 | - C1 | 181896.6875 | 0.0000 |
| 19.010 | 19.010 | 15.630 | 747831 | 3824575 | 17.522 | - C1 | 181896.6875 | 0.0000 |
| 19.103 | 19.103 | 15.630 | 744360 | 3385491 | 15.510 | - C1 | 181896.6875 | 0.0000 |
| 19.206 | 19.206 | 15.630 | 709181 | 4029212 | 18.459 | - C1 | 181896.6875 | 0.0000 |
| 19.312 | 19.312 | 15.630 | 695307 | 10681509 | 48.936 | - C1 | 181896.6875 | 0.0000 |
| 19.521 | 19.521 | 15.630 | 640719 | 4997249 | 22.894 | - C1 | 181896.6875 | 0.0000 |
| 19.659 | 19.659 | 15.630 | 591497 | 3498455 | 16.028 | - C1 | 181896.6875 | 0.0000 |
| 19.770 | 19.770 | 15.630 | 603600 | 4987665 | 22.850 | - C1 | 181896.6875 | 0.0000 |
| 19.912 | 19.912 | 15.630 | 530133 | 4258343 | 19.509 | - C1 | 181896.6875 | 0.0000 |
| 20.046 | 20.046 | 15.630 | 497737 | 6361758 | 29.145 | - C1 | 181896.6875 | 0.0000 |
| 20.263 | 20.263 | 15.630 | 446005 | 1643528 | 7.530 | - C1 | 181896.6875 | 0.0000 |
| 20.352 | 20.352 | 15.630 | 483847 | 3770087 | 17.272 | - C1 | 181896.6875 | 0.0000 |
| 20.472 | 20.472 | 15.630 | 412796 | 16194524 | 74.193 | - C1 | 181896.6875 | 0.0000 |
| 21.232 | 21.232 | 15.630 | 281546 | 18946552 | 86.801 | - C1 | 181896.6875 | 0.0000 |

otals

| | | | |
|-------------|----------|-----------|----------|
| Unknowns | 12900626 | 418664064 | N/A |
| Quantified | 54488664 | 353927296 | 1621.467 |
| Grand Total | 67389288 | 772591360 | 1621.467 |

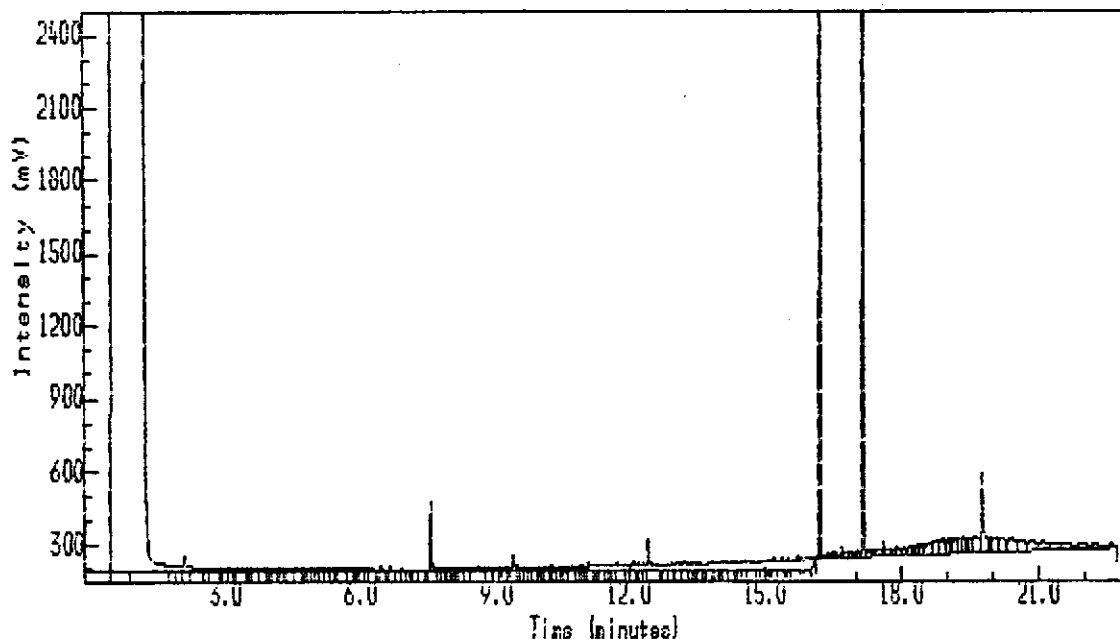
ANALYSIS SUMMARY

Method..... DROXTEND
Run sequence..... DRO
Calibration..... MOIL3597
External standard calibration using area
Calibration last modified on 7-MAR-1997 at 13:05

Uncalibrated peaks use user factor (0.0000)

Injection Report

Acquired on 2-SEP-1997 at 23:15



Intertek Testing Services - Environmental Laboratories

Analyst Name : VHLOGAN
 Lims Id :
 Comment : TPH BY 8015
 Method Title : TPH BY METHOD 8015 mod
 Sample Name : 10534-3 30/5 AC193-83
 Sample Id :
 Sample Type : Sample Amount=2.00000
 Bottle No : 28

*TPH K10
 Sum 98.7%*

PEAK INFORMATION

| RT mins | RT Exp | Area uVs | Mg/L-Mg/Kg | Peak name | RF slope | RF intercept |
|---------|--------|----------|------------|---------------|-------------|--------------|
| | 8.306 | 7223696 | 6.812 | TPH AS DIESEL | 176745.2500 | 0.0000 |
| 2.783 | 8.306 | 136915 | 0.129 | - C1 | 176745.2500 | 0.0000 |
| 2.997 | 8.306 | 22970 | 0.022 | - C1 | 176745.2500 | 0.0000 |
| 3.086 | 8.306 | 71413 | 0.067 | - C1 | 176745.2500 | 0.0000 |
| 3.183 | 8.306 | 43109 | 0.041 | - C1 | 176745.2500 | 0.0000 |
| 3.308 | 8.306 | 35714 | 0.034 | - C1 | 176745.2500 | 0.0000 |
| 3.410 | 8.306 | 95679 | 0.090 | - C1 | 176745.2500 | 0.0000 |
| 3.592 | 8.306 | 23522 | 0.022 | - C1 | 176745.2500 | 0.0000 |
| 3.659 | 8.306 | 21764 | 0.021 | - C1 | 176745.2500 | 0.0000 |
| 3.721 | 8.306 | 50710 | 0.048 | - C1 | 176745.2500 | 0.0000 |
| 3.903 | 8.306 | 54637 | 0.052 | - C1 | 176745.2500 | 0.0000 |
| 4.037 | 8.306 | 16896 | 0.016 | - C1 | 176745.2500 | 0.0000 |
| 4.103 | 8.306 | 21271 | 0.020 | - C1 | 176745.2500 | 0.0000 |

4/29-3-97

| RT mins | RT Exp | Area uVs | Mg/L-Mg/Kg | Peak name | RF slope | RF intercept |
|---------|--------|----------|------------|-----------|-------------|--------------|
| 4.174 | 8.306 | 30999 | 0.029 | - C1 | 176745.2500 | 0.0000 |
| 4.259 | 8.306 | 13808 | 0.013 | - C1 | 176745.2500 | 0.0000 |
| 4.334 | 8.306 | 31301 | 0.030 | - C1 | 176745.2500 | 0.0000 |
| 4.441 | 8.306 | 19289 | 0.018 | - C1 | 176745.2500 | 0.0000 |
| 4.490 | 8.306 | 53782 | 0.051 | - C1 | 176745.2500 | 0.0000 |
| 4.708 | 8.306 | 44250 | 0.042 | - C1 | 176745.2500 | 0.0000 |
| 4.832 | 8.306 | 9131 | 0.009 | - C1 | 176745.2500 | 0.0000 |
| 4.881 | 8.306 | 12958 | 0.012 | - C1 | 176745.2500 | 0.0000 |
| 5.023 | 8.306 | 35891 | 0.034 | - C1 | 176745.2500 | 0.0000 |
| 5.121 | 8.306 | 19276 | 0.018 | - C1 | 176745.2500 | 0.0000 |
| 5.263 | 8.306 | 17857 | 0.017 | - C1 | 176745.2500 | 0.0000 |
| 5.326 | 8.306 | 17608 | 0.017 | - C1 | 176745.2500 | 0.0000 |
| 5.446 | 8.306 | 15240 | 0.014 | - C1 | 176745.2500 | 0.0000 |
| 5.557 | 8.306 | 7395 | 0.007 | - C1 | 176745.2500 | 0.0000 |
| 5.677 | 8.306 | 22819 | 0.022 | - C1 | 176745.2500 | 0.0000 |
| 5.837 | 8.306 | 15067 | 0.014 | - C1 | 176745.2500 | 0.0000 |
| 6.014 | 8.306 | 10116 | 0.010 | - C1 | 176745.2500 | 0.0000 |
| 6.148 | 8.306 | 11804 | 0.011 | - C1 | 176745.2500 | 0.0000 |
| 6.232 | 8.306 | 9597 | 0.009 | - C1 | 176745.2500 | 0.0000 |
| 6.392 | 8.306 | 23824 | 0.022 | - C1 | 176745.2500 | 0.0000 |
| 6.494 | 8.306 | 4759 | 0.004 | - C1 | 176745.2500 | 0.0000 |
| 6.566 | 8.306 | 33086 | 0.031 | - C1 | 176745.2500 | 0.0000 |
| 6.694 | 8.306 | 3232 | 0.003 | - C1 | 176745.2500 | 0.0000 |
| 6.766 | 8.306 | 34908 | 0.033 | - C1 | 176745.2500 | 0.0000 |
| 6.957 | 8.306 | 8545 | 0.008 | - C1 | 176745.2500 | 0.0000 |
| 7.023 | 8.306 | 14429 | 0.014 | - C1 | 176745.2500 | 0.0000 |
| 7.166 | 8.306 | 9022 | 0.009 | - C1 | 176745.2500 | 0.0000 |
| 7.223 | 8.306 | 6496 | 0.006 | - C1 | 176745.2500 | 0.0000 |
| 7.281 | 8.306 | 7764 | 0.007 | - C1 | 176745.2500 | 0.0000 |
| 7.486 | 8.306 | 10810 | 0.010 | - C1 | 176745.2500 | 0.0000 |
| 7.570 | 8.306 | 8739 | 0.008 | - C1 | 176745.2500 | 0.0000 |
| 7.663 | 8.306 | 487160 | 0.459 | - C1 | 176745.2500 | 0.0000 |
| 7.810 | 8.306 | 26562 | 0.025 | - C1 | 176745.2500 | 0.0000 |
| 7.926 | 8.306 | 33797 | 0.032 | - C1 | 176745.2500 | 0.0000 |
| 8.001 | 8.306 | 14032 | 0.013 | - C1 | 176745.2500 | 0.0000 |
| 8.099 | 8.306 | 11704 | 0.011 | - C1 | 176745.2500 | 0.0000 |
| 8.183 | 8.306 | 9421 | 0.009 | - C1 | 176745.2500 | 0.0000 |
| 8.241 | 8.306 | 11423 | 0.011 | - C1 | 176745.2500 | 0.0000 |
| 8.326 | 8.306 | 25696 | 0.024 | - C1 | 176745.2500 | 0.0000 |
| 8.446 | 8.306 | 23666 | 0.022 | - C1 | 176745.2500 | 0.0000 |
| 8.703 | 8.306 | 93528 | 0.088 | - C1 | 176745.2500 | 0.0000 |
| 9.001 | 8.306 | 33430 | 0.032 | - C1 | 176745.2500 | 0.0000 |
| 9.112 | 8.306 | 25365 | 0.024 | - C1 | 176745.2500 | 0.0000 |
| 9.170 | 8.306 | 14061 | 0.013 | - C1 | 176745.2500 | 0.0000 |
| 9.303 | 8.306 | 31003 | 0.029 | - C1 | 176745.2500 | 0.0000 |
| 9.357 | 8.306 | 13846 | 0.013 | - C1 | 176745.2500 | 0.0000 |
| 9.454 | 8.306 | 162272 | 0.153 | - C1 | 176745.2500 | 0.0000 |
| 9.552 | 8.306 | 38305 | 0.036 | - C1 | 176745.2500 | 0.0000 |
| 9.610 | 8.306 | 52535 | 0.050 | - C1 | 176745.2500 | 0.0000 |
| 9.766 | 8.306 | 38145 | 0.036 | - C1 | 176745.2500 | 0.0000 |
| 9.814 | 8.306 | 35187 | 0.033 | - C1 | 176745.2500 | 0.0000 |
| 9.903 | 8.306 | 58200 | 0.055 | - C1 | 176745.2500 | 0.0000 |
| 10.028 | 8.306 | 52010 | 0.049 | - C1 | 176745.2500 | 0.0000 |

| RT mins | RT Exp | Area uVs | Mq/L-Mg/Kg | Peak name | RF slope | RF intercept |
|---------|--------|----------|------------|--------------|-------------|--------------|
| 10.094 | 8.306 | 26684 | 0.025 | - C1 | 176745.2500 | 0.0000 |
| 10.214 | 8.306 | 67482 | 0.064 | - C1 | 176745.2500 | 0.0000 |
| 10.263 | 8.306 | 40666 | 0.038 | - C1 | 176745.2500 | 0.0000 |
| 10.326 | 8.306 | 64532 | 0.061 | - C1 | 176745.2500 | 0.0000 |
| 10.454 | 8.306 | 51608 | 0.049 | - C1 | 176745.2500 | 0.0000 |
| 10.508 | 8.306 | 41601 | 0.039 | - C1 | 176745.2500 | 0.0000 |
| 10.574 | 8.306 | 53235 | 0.050 | - C1 | 176745.2500 | 0.0000 |
| 10.641 | 8.306 | 31389 | 0.030 | - C1 | 176745.2500 | 0.0000 |
| 10.743 | 8.306 | 99964 | 0.094 | - C1 | 176745.2500 | 0.0000 |
| 10.877 | 8.306 | 65643 | 0.062 | - C1 | 176745.2500 | 0.0000 |
| 10.921 | 8.306 | 40003 | 0.038 | - C1 | 176745.2500 | 0.0000 |
| 10.970 | 8.306 | 71248 | 0.067 | - C1 | 176745.2500 | 0.0000 |
| 11.068 | 8.306 | 44500 | 0.042 | - C1 | 176745.2500 | 0.0000 |
| 11.108 | 8.306 | 145641 | 0.137 | - C1 | 176745.2500 | 0.0000 |
| 11.246 | 8.306 | 67868 | 0.064 | - C1 | 176745.2500 | 0.0000 |
| 11.317 | 8.306 | 39134 | 0.037 | - C1 | 176745.2500 | 0.0000 |
| 11.401 | 8.306 | 138568 | 0.131 | - C1 | 176745.2500 | 0.0000 |
| 11.530 | 8.306 | 88317 | 0.083 | - C1 | 176745.2500 | 0.0000 |
| 11.574 | 8.306 | 54356 | 0.051 | - C1 | 176745.2500 | 0.0000 |
| 11.650 | 8.306 | 96619 | 0.091 | - C1 | 176745.2500 | 0.0000 |
| 11.739 | 8.306 | 255214 | 0.241 | - C1 | 176745.2500 | 0.0000 |
| 11.943 | 8.306 | 113201 | 0.107 | - C1 | 176745.2500 | 0.0000 |
| 12.081 | 8.306 | 200532 | 0.189 | - C1 | 176745.2500 | 0.0000 |
| 12.152 | 8.306 | 69168 | 0.065 | - C1 | 176745.2500 | 0.0000 |
| 12.206 | 8.306 | 129595 | 0.122 | - C1 | 176745.2500 | 0.0000 |
| 12.308 | 8.306 | 142712 | 0.135 | - C1 | 176745.2500 | 0.0000 |
| 12.414 | 8.306 | 568203 | 0.536 | - C1 | 176745.2500 | 0.0000 |
| 12.717 | 8.306 | 89508 | 0.084 | - C1 | 176745.2500 | 0.0000 |
| 12.806 | 8.306 | 149035 | 0.141 | - C1 | 176745.2500 | 0.0000 |
| 12.930 | 8.306 | 166272 | 0.157 | - C1 | 176745.2500 | 0.0000 |
| 13.068 | 8.306 | 250161 | 0.236 | - C1 | 176745.2500 | 0.0000 |
| 13.201 | 8.306 | 239531 | 0.226 | - C1 | 176745.2500 | 0.0000 |
| 13.348 | 8.306 | 140404 | 0.132 | - C1 | 176745.2500 | 0.0000 |
| 13.397 | 8.306 | 97830 | 0.092 | - C1 | 176745.2500 | 0.0000 |
| 13.459 | 8.306 | 82093 | 0.077 | - C1 | 176745.2500 | 0.0000 |
| 13.530 | 8.306 | 171124 | 0.161 | - C1 | 176745.2500 | 0.0000 |
| 13.632 | 8.306 | 101085 | 0.095 | - C1 | 176745.2500 | 0.0000 |
| 13.690 | 8.306 | 68338 | 0.064 | - C1 | 176745.2500 | 0.0000 |
| 13.739 | 8.306 | 161724 | 0.153 | - C1 | 176745.2500 | 0.0000 |
| 13.837 | 8.306 | 77302 | 0.073 | - C1 | 176745.2500 | 0.0000 |
| 13.930 | 8.306 | 171853 | 0.162 | - C1 | 176745.2500 | 0.0000 |
| 16.219 | 16.287 | 7865865 | 8.805 | n-OCTACOSANE | 148898.0156 | 0.0000 |
| 17.166 | 17.233 | 7818387 | 8.225 | TRIACONTANE | 158425.2031 | 0.0000 |

Totals

| | | |
|-------------|-----------|--------|
| Unknowns | 432578688 | N/A |
| Quantified | 22907948 | 23.841 |
| Grand Total | 455486624 | 23.841 |

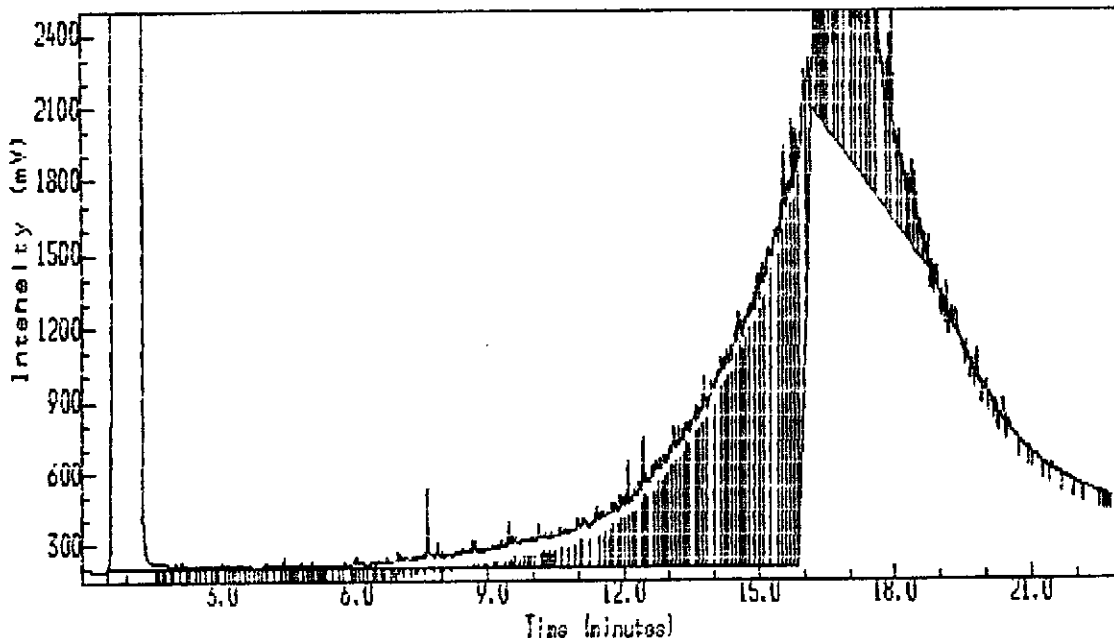
ANALYSIS SUMMARY

Method..... DRO
Run sequence..... DRO
Calibration..... DR00397
External standard calibration using area
Calibration last modified on 31-JUL-1997 at 13:47

Uncalibrated peaks use user factor (0.0000)

Injection Report

Acquired on 3-SEP-1997 at 09:31



Intertek Testing Services - Environmental Laboratories

Analyst Name : VHLOGAN
 Lims Id :
 Comment : TPH BY 8015
 Method Title : TPH BY METHOD 8015 mod
 Sample Name : 10534-4RR 30/5
 Sample Id :
 Sample Type : Sample Amount=2.00000
 Bottle No : 4

AC193-83

*Motor Oil 678 mg/kg
 Extended 775 mg/kg
 Sum 139%*

PEAK INFORMATION

| RT mins | RT Exp | Area uVs | Mg/L-Mg/Kg | Peak name | RF slope | RF intercept |
|---------|--------|-----------|------------|---------------|-------------|--------------|
| | 8.306 | 103430256 | 97.532 | TPH AS DIESEL | 176745.2500 | 0.0000 |
| 2.752 | 8.306 | 133356 | 0.126 | - C1 | 176745.2500 | 0.0000 |
| 2.943 | 8.306 | 55370 | 0.052 | - C1 | 176745.2500 | 0.0000 |
| 3.006 | 8.306 | 72785 | 0.069 | - C1 | 176745.2500 | 0.0000 |
| 3.117 | 8.306 | 148945 | 0.140 | - C1 | 176745.2500 | 0.0000 |
| 3.223 | 8.306 | 58292 | 0.055 | - C1 | 176745.2500 | 0.0000 |
| 3.326 | 8.306 | 77888 | 0.073 | - C1 | 176745.2500 | 0.0000 |
| 3.383 | 8.306 | 54700 | 0.052 | - C1 | 176745.2500 | 0.0000 |
| 3.454 | 8.306 | 72941 | 0.069 | - C1 | 176745.2500 | 0.0000 |
| 3.570 | 8.306 | 84736 | 0.080 | - C1 | 176745.2500 | 0.0000 |
| 3.668 | 8.306 | 53818 | 0.051 | - C1 | 176745.2500 | 0.0000 |
| 3.730 | 8.306 | 91653 | 0.086 | - C1 | 176745.2500 | 0.0000 |
| 3.877 | 8.306 | 42474 | 0.040 | - C1 | 176745.2500 | 0.0000 |

Wt 9-3-97

| RT mins | RT Exp | Area uVs | Mg/L-Mg/Kg | Peak name | RF slope | RF intercept |
|---------|--------|----------|------------|-----------|-------------|--------------|
| 3.988 | 8.306 | 57350 | 0.054 | - C1 | 176745.2500 | 0.0000 |
| 4.050 | 8.306 | 55547 | 0.052 | - C1 | 176745.2500 | 0.0000 |
| 4.108 | 8.306 | 55933 | 0.053 | - C1 | 176745.2500 | 0.0000 |
| 4.161 | 8.306 | 115996 | 0.109 | - C1 | 176745.2500 | 0.0000 |
| 4.326 | 8.306 | 119430 | 0.113 | - C1 | 176745.2500 | 0.0000 |
| 4.428 | 8.306 | 54253 | 0.051 | - C1 | 176745.2500 | 0.0000 |
| 4.494 | 8.306 | 107547 | 0.101 | - C1 | 176745.2500 | 0.0000 |
| 4.574 | 8.306 | 72349 | 0.068 | - C1 | 176745.2500 | 0.0000 |
| 4.641 | 8.306 | 50730 | 0.048 | - C1 | 176745.2500 | 0.0000 |
| 4.721 | 8.306 | 48947 | 0.046 | - C1 | 176745.2500 | 0.0000 |
| 4.761 | 8.306 | 66129 | 0.062 | - C1 | 176745.2500 | 0.0000 |
| 4.886 | 8.306 | 100472 | 0.095 | - C1 | 176745.2500 | 0.0000 |
| 4.948 | 8.306 | 88162 | 0.083 | - C1 | 176745.2500 | 0.0000 |
| 5.028 | 8.306 | 55849 | 0.053 | - C1 | 176745.2500 | 0.0000 |
| 5.072 | 8.306 | 60224 | 0.057 | - C1 | 176745.2500 | 0.0000 |
| 5.130 | 8.306 | 87190 | 0.082 | - C1 | 176745.2500 | 0.0000 |
| 5.192 | 8.306 | 86478 | 0.082 | - C1 | 176745.2500 | 0.0000 |
| 5.268 | 8.306 | 70049 | 0.066 | - C1 | 176745.2500 | 0.0000 |
| 5.339 | 8.306 | 48402 | 0.046 | - C1 | 176745.2500 | 0.0000 |
| 5.401 | 8.306 | 68974 | 0.065 | - C1 | 176745.2500 | 0.0000 |
| 5.512 | 8.306 | 129020 | 0.122 | - C1 | 176745.2500 | 0.0000 |
| 5.654 | 8.306 | 146849 | 0.138 | - C1 | 176745.2500 | 0.0000 |
| 5.757 | 8.306 | 78188 | 0.074 | - C1 | 176745.2500 | 0.0000 |
| 5.846 | 8.306 | 206229 | 0.194 | - C1 | 176745.2500 | 0.0000 |
| 6.059 | 8.306 | 151194 | 0.143 | - C1 | 176745.2500 | 0.0000 |
| 6.103 | 8.306 | 138401 | 0.131 | - C1 | 176745.2500 | 0.0000 |
| 6.188 | 8.306 | 137660 | 0.130 | - C1 | 176745.2500 | 0.0000 |
| 6.263 | 8.306 | 155350 | 0.146 | - C1 | 176745.2500 | 0.0000 |
| 6.459 | 8.306 | 172699 | 0.163 | - C1 | 176745.2500 | 0.0000 |
| 6.508 | 8.306 | 105230 | 0.099 | - C1 | 176745.2500 | 0.0000 |
| 6.579 | 8.306 | 218267 | 0.206 | - C1 | 176745.2500 | 0.0000 |
| 6.699 | 8.306 | 82238 | 0.078 | - C1 | 176745.2500 | 0.0000 |
| 6.774 | 8.306 | 279393 | 0.263 | - C1 | 176745.2500 | 0.0000 |
| 6.899 | 8.306 | 105963 | 0.100 | - C1 | 176745.2500 | 0.0000 |
| 7.028 | 8.306 | 326635 | 0.308 | - C1 | 176745.2500 | 0.0000 |
| 7.068 | 8.306 | 236647 | 0.223 | - C1 | 176745.2500 | 0.0000 |
| 7.228 | 8.306 | 469867 | 0.443 | - C1 | 176745.2500 | 0.0000 |
| 7.397 | 8.306 | 293148 | 0.276 | - C1 | 176745.2500 | 0.0000 |
| 7.446 | 8.306 | 173033 | 0.163 | - C1 | 176745.2500 | 0.0000 |
| 7.579 | 8.306 | 392216 | 0.370 | - C1 | 176745.2500 | 0.0000 |
| 7.672 | 8.306 | 1183254 | 1.116 | - C1 | 176745.2500 | 0.0000 |
| 7.903 | 8.306 | 531048 | 0.501 | - C1 | 176745.2500 | 0.0000 |
| 7.992 | 8.306 | 251326 | 0.237 | - C1 | 176745.2500 | 0.0000 |
| 8.157 | 8.306 | 637225 | 0.601 | - C1 | 176745.2500 | 0.0000 |
| 8.326 | 8.306 | 730500 | 0.689 | - C1 | 176745.2500 | 0.0000 |
| 8.437 | 8.306 | 540055 | 0.509 | - C1 | 176745.2500 | 0.0000 |
| 8.574 | 8.306 | 388515 | 0.366 | - C1 | 176745.2500 | 0.0000 |
| 8.681 | 8.306 | 502466 | 0.474 | - C1 | 176745.2500 | 0.0000 |
| 8.730 | 8.306 | 498770 | 0.470 | - C1 | 176745.2500 | 0.0000 |
| 8.832 | 8.306 | 409959 | 0.387 | - C1 | 176745.2500 | 0.0000 |
| 8.917 | 8.306 | 306780 | 0.289 | - C1 | 176745.2500 | 0.0000 |
| 8.970 | 8.306 | 271426 | 0.256 | - C1 | 176745.2500 | 0.0000 |
| 9.126 | 8.306 | 788499 | 0.744 | - C1 | 176745.2500 | 0.0000 |

| RT mins | RT Exp | Area uVs | Mg/L-Mg/Kg | Peak name | RF slope | RF intercept |
|---------|--------|----------|------------|--------------|-------------|--------------|
| 9.183 | 8.306 | 345680 | 0.326 | - C1 | 176745.2500 | 0.0000 |
| 9.308 | 8.306 | 1012842 | 0.955 | - C1 | 176745.2500 | 0.0000 |
| 9.463 | 8.306 | 754526 | 0.712 | - C1 | 176745.2500 | 0.0000 |
| 9.521 | 8.306 | 371601 | 0.350 | - C1 | 176745.2500 | 0.0000 |
| 9.566 | 8.306 | 333057 | 0.314 | - C1 | 176745.2500 | 0.0000 |
| 9.623 | 8.306 | 784335 | 0.740 | - C1 | 176745.2500 | 0.0000 |
| 9.783 | 8.306 | 728752 | 0.687 | - C1 | 176745.2500 | 0.0000 |
| 9.841 | 8.306 | 478829 | 0.452 | - C1 | 176745.2500 | 0.0000 |
| 9.903 | 8.306 | 521192 | 0.491 | - C1 | 176745.2500 | 0.0000 |
| 9.983 | 8.306 | 725271 | 0.684 | - C1 | 176745.2500 | 0.0000 |
| 10.121 | 8.306 | 1180923 | 1.114 | - C1 | 176745.2500 | 0.0000 |
| 10.228 | 8.306 | 446489 | 0.421 | - C1 | 176745.2500 | 0.0000 |
| 10.268 | 8.306 | 424722 | 0.401 | - C1 | 176745.2500 | 0.0000 |
| 10.339 | 8.306 | 559120 | 0.527 | - C1 | 176745.2500 | 0.0000 |
| 10.383 | 8.306 | 577537 | 0.545 | - C1 | 176745.2500 | 0.0000 |
| 10.468 | 8.306 | 566680 | 0.534 | - C1 | 176745.2500 | 0.0000 |
| 10.588 | 8.306 | 1143081 | 1.078 | - C1 | 176745.2500 | 0.0000 |
| 10.726 | 8.306 | 1325561 | 1.250 | - C1 | 176745.2500 | 0.0000 |
| 10.846 | 8.306 | 1384074 | 1.305 | - C1 | 176745.2500 | 0.0000 |
| 10.979 | 8.306 | 1362940 | 1.285 | - C1 | 176745.2500 | 0.0000 |
| 11.054 | 8.306 | 567193 | 0.535 | - C1 | 176745.2500 | 0.0000 |
| 11.130 | 8.306 | 1789317 | 1.687 | - C1 | 176745.2500 | 0.0000 |
| 11.392 | 8.306 | 2763004 | 2.605 | - C1 | 176745.2500 | 0.0000 |
| 11.526 | 8.306 | 1703107 | 1.606 | - C1 | 176745.2500 | 0.0000 |
| 11.659 | 8.306 | 1430876 | 1.349 | - C1 | 176745.2500 | 0.0000 |
| 11.730 | 8.306 | 1103266 | 1.040 | - C1 | 176745.2500 | 0.0000 |
| 11.797 | 8.306 | 1475663 | 1.392 | - C1 | 176745.2500 | 0.0000 |
| 11.908 | 8.306 | 1270423 | 1.198 | - C1 | 176745.2500 | 0.0000 |
| 11.988 | 8.306 | 1454682 | 1.372 | - C1 | 176745.2500 | 0.0000 |
| 12.077 | 8.306 | 1895194 | 1.787 | - C1 | 176745.2500 | 0.0000 |
| 12.161 | 8.306 | 1364951 | 1.287 | - C1 | 176745.2500 | 0.0000 |
| 12.219 | 8.306 | 1230058 | 1.160 | - C1 | 176745.2500 | 0.0000 |
| 12.326 | 8.306 | 2802688 | 2.643 | - C1 | 176745.2500 | 0.0000 |
| 12.419 | 8.306 | 1524402 | 1.437 | - C1 | 176745.2500 | 0.0000 |
| 12.472 | 8.306 | 1479489 | 1.395 | - C1 | 176745.2500 | 0.0000 |
| 12.632 | 8.306 | 3523768 | 3.323 | - C1 | 176745.2500 | 0.0000 |
| 12.694 | 8.306 | 2550919 | 2.405 | - C1 | 176745.2500 | 0.0000 |
| 12.797 | 8.306 | 2046555 | 1.930 | - C1 | 176745.2500 | 0.0000 |
| 12.886 | 8.306 | 2093229 | 1.974 | - C1 | 176745.2500 | 0.0000 |
| 12.948 | 8.306 | 1673130 | 1.578 | - C1 | 176745.2500 | 0.0000 |
| 13.032 | 8.306 | 2677651 | 2.525 | - C1 | 176745.2500 | 0.0000 |
| 13.081 | 8.306 | 2869473 | 2.706 | - C1 | 176745.2500 | 0.0000 |
| 13.192 | 8.306 | 3104988 | 2.928 | - C1 | 176745.2500 | 0.0000 |
| 13.286 | 8.306 | 2759832 | 2.602 | - C1 | 176745.2500 | 0.0000 |
| 13.343 | 8.306 | 2140771 | 2.019 | - C1 | 176745.2500 | 0.0000 |
| 13.388 | 8.306 | 2172345 | 2.048 | - C1 | 176745.2500 | 0.0000 |
| 13.548 | 8.306 | 5336738 | 5.032 | - C1 | 176745.2500 | 0.0000 |
| 13.592 | 8.306 | 2933011 | 2.766 | - C1 | 176745.2500 | 0.0000 |
| 13.690 | 8.306 | 3124152 | 2.946 | - C1 | 176745.2500 | 0.0000 |
| 13.752 | 8.306 | 4891722 | 4.613 | - C1 | 176745.2500 | 0.0000 |
| 13.908 | 8.306 | 7195431 | 6.785 | - C1 | 176745.2500 | 0.0000 |
| 16.241 | 16.287 | 6837995 | 7.654 | n-OCTACOSANE | 148898.0156 | 0.0000 |
| 17.188 | 17.233 | 11046903 | 11.622 | TRIACONTANE | 158425.2031 | 0.0000 |

| <u>RT mins</u> | <u>RT Exp</u> | <u>Area uVs</u> | <u>Mg/L-Mg/Kg</u> | <u>Peak name</u> | <u>RF slope</u> | <u>RF intercept</u> |
|----------------|---------------|-----------------|-------------------|------------------|-----------------|---------------------|
|----------------|---------------|-----------------|-------------------|------------------|-----------------|---------------------|

Totals

| | | | | | | |
|-------------|-----------|---------|--|--|--|--|
| Unknowns | 635731968 | N/A | | | | |
| Quantified | 121315152 | 116.808 | | | | |
| Grand Total | 757047104 | 116.808 | | | | |

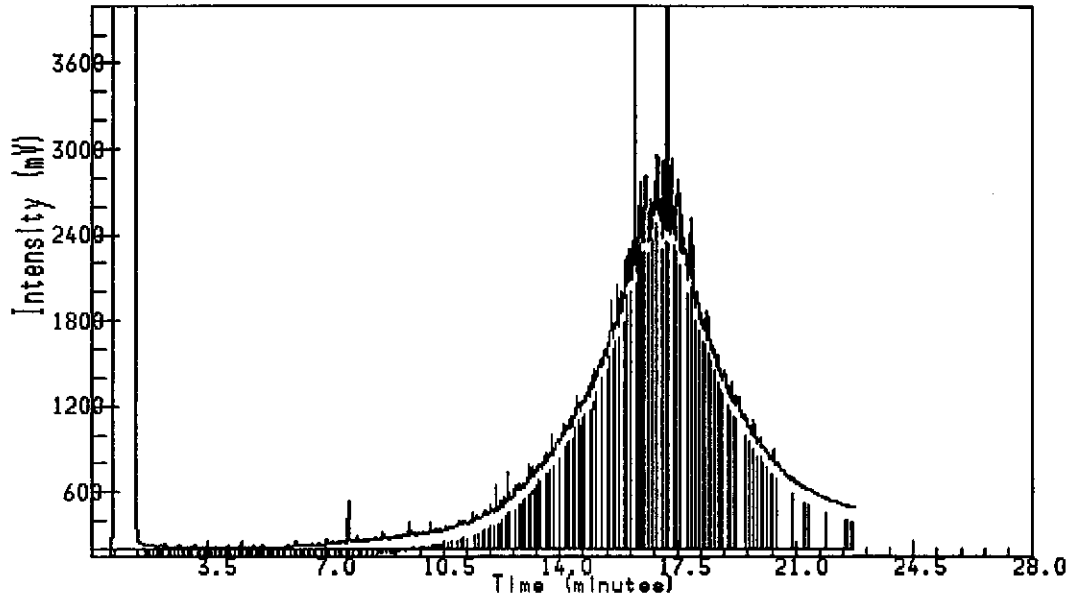
ANALYSIS SUMMARY

Method..... DRO
Run sequence..... DRO
Calibration..... DRO0397
External standard calibration using area
Calibration last modified on 31-JUL-1997 at 13:47

Uncalibrated peaks use user factor (0.0000)

Injectio

Acquired on 3-SEP-1997 at 09:31



Intertek Testing Services - Environmental Laboratories

Analyst Name : VHLOGAN
 Lims Id :
 Comment : TPH BY 8015
 Method Title : TPH BY METHOD 8015 mod
 Sample Name : 10534-4RR 30/5 AC193-83
 Sample Id :
 Sample Type : Sample Amount=2.00000
 Bottle No : 4

PEAK INFORMATION

VH 9-3-97

| RT mins | RT Corr | RT Exp | Hght uV | Area uVs | Mq/L-Mq/Kg | Peak name | RF slope | RF intercept |
|---------|---------|--------|-----------|-----------|------------|-----------|-------------|--------------|
| | | 15.630 | 122048408 | 740260608 | 678.279 | MOTOR OIL | 181896.6875 | 0.0000 |
| 9.783 | 9.783 | 15.630 | 116339 | 735777 | 0.674 | - C1 | 181896.6875 | 0.0000 |
| 9.841 | 9.841 | 15.630 | 115480 | 483325 | 0.443 | - C1 | 181896.6875 | 0.0000 |
| 9.903 | 9.903 | 15.630 | 121181 | 525969 | 0.482 | - C1 | 181896.6875 | 0.0000 |
| 9.983 | 9.983 | 15.630 | 126300 | 731734 | 0.670 | - C1 | 181896.6875 | 0.0000 |
| 10.121 | 10.121 | 15.630 | 184040 | 1190477 | 1.091 | - C1 | 181896.6875 | 0.0000 |
| 10.228 | 10.228 | 15.630 | 134396 | 450142 | 0.412 | - C1 | 181896.6875 | 0.0000 |
| 10.268 | 10.268 | 15.630 | 148799 | 428094 | 0.392 | - C1 | 181896.6875 | 0.0000 |
| 10.339 | 10.339 | 15.630 | 139761 | 563616 | 0.516 | - C1 | 181896.6875 | 0.0000 |
| 10.383 | 10.383 | 15.630 | 152776 | 582033 | 0.533 | - C1 | 181896.6875 | 0.0000 |
| 10.468 | 10.468 | 15.630 | 139189 | 571176 | 0.523 | - C1 | 181896.6875 | 0.0000 |
| 10.588 | 10.588 | 15.630 | 171881 | 1151511 | 1.055 | - C1 | 181896.6875 | 0.0000 |

| RT mins | RT Corr | RT Exp | Hght uV | Area uVs | Mq/L-Mq/Kq | Peak name | RF slope | RF intercept |
|---------|---------|--------|---------|----------|------------|-----------|-------------|--------------|
| 10.726 | 10.726 | 15.630 | 161869 | 1334833 | 1.223 | - C1 | 181896.6875 | 0.0000 |
| 10.846 | 10.846 | 15.630 | 165658 | 1393346 | 1.277 | - C1 | 181896.6875 | 0.0000 |
| 10.979 | 10.979 | 15.630 | 198436 | 1371089 | 1.256 | - C1 | 181896.6875 | 0.0000 |
| 11.054 | 11.054 | 15.630 | 183193 | 570565 | 0.523 | - C1 | 181896.6875 | 0.0000 |
| 11.130 | 11.130 | 15.630 | 203640 | 1799433 | 1.649 | - C1 | 181896.6875 | 0.0000 |
| 11.392 | 11.392 | 15.630 | 260088 | 2777616 | 2.545 | - C1 | 181896.6875 | 0.0000 |
| 11.526 | 11.526 | 15.630 | 241170 | 1711256 | 1.568 | - C1 | 181896.6875 | 0.0000 |
| 11.659 | 11.659 | 15.630 | 239086 | 1437620 | 1.317 | - C1 | 181896.6875 | 0.0000 |
| 11.730 | 11.730 | 15.630 | 268514 | 1108043 | 1.015 | - C1 | 181896.6875 | 0.0000 |
| 11.797 | 11.797 | 15.630 | 269294 | 1481845 | 1.358 | - C1 | 181896.6875 | 0.0000 |
| 11.908 | 11.908 | 15.630 | 306687 | 1275481 | 1.169 | - C1 | 181896.6875 | 0.0000 |
| 11.988 | 11.988 | 15.630 | 290408 | 1460301 | 1.338 | - C1 | 181896.6875 | 0.0000 |
| 12.077 | 12.077 | 15.630 | 445926 | 1901656 | 1.742 | - C1 | 181896.6875 | 0.0000 |
| 12.161 | 12.161 | 15.630 | 295045 | 1370009 | 1.255 | - C1 | 181896.6875 | 0.0000 |
| 12.219 | 12.219 | 15.630 | 337395 | 1234273 | 1.131 | - C1 | 181896.6875 | 0.0000 |
| 12.326 | 12.326 | 15.630 | 361733 | 2811679 | 2.576 | - C1 | 181896.6875 | 0.0000 |
| 12.419 | 12.419 | 15.630 | 545552 | 1528336 | 1.400 | - C1 | 181896.6875 | 0.0000 |
| 12.472 | 12.472 | 15.630 | 390134 | 1483703 | 1.359 | - C1 | 181896.6875 | 0.0000 |
| 12.632 | 12.632 | 15.630 | 418350 | 3533603 | 3.238 | - C1 | 181896.6875 | 0.0000 |
| 12.694 | 12.694 | 15.630 | 441165 | 2557382 | 2.343 | - C1 | 181896.6875 | 0.0000 |
| 12.797 | 12.797 | 15.630 | 452447 | 2051613 | 1.880 | - C1 | 181896.6875 | 0.0000 |
| 12.886 | 12.886 | 15.630 | 464127 | 2098287 | 1.923 | - C1 | 181896.6875 | 0.0000 |
| 12.948 | 12.948 | 15.630 | 465264 | 1677064 | 1.537 | - C1 | 181896.6875 | 0.0000 |
| 13.032 | 13.032 | 15.630 | 504088 | 2683551 | 2.459 | - C1 | 181896.6875 | 0.0000 |
| 13.081 | 13.081 | 15.630 | 590408 | 2875092 | 2.634 | - C1 | 181896.6875 | 0.0000 |
| 13.192 | 13.192 | 15.630 | 584576 | 3111169 | 2.851 | - C1 | 181896.6875 | 0.0000 |
| 13.286 | 13.286 | 15.630 | 579488 | 2765170 | 2.534 | - C1 | 181896.6875 | 0.0000 |
| 13.343 | 13.343 | 15.630 | 595736 | 2144705 | 1.965 | - C1 | 181896.6875 | 0.0000 |
| 13.388 | 13.388 | 15.630 | 599861 | 2176279 | 1.994 | - C1 | 181896.6875 | 0.0000 |
| 13.548 | 13.548 | 15.630 | 650408 | 5346011 | 4.898 | - C1 | 181896.6875 | 0.0000 |
| 13.592 | 13.592 | 15.630 | 678623 | 2937787 | 2.692 | - C1 | 181896.6875 | 0.0000 |
| 13.690 | 13.690 | 15.630 | 668912 | 3129209 | 2.867 | - C1 | 181896.6875 | 0.0000 |
| 13.752 | 13.752 | 15.630 | 798876 | 4899027 | 4.489 | - C1 | 181896.6875 | 0.0000 |
| 13.908 | 13.908 | 15.630 | 771847 | 7205824 | 6.602 | - C1 | 181896.6875 | 0.0000 |
| 14.121 | 14.121 | 15.630 | 873024 | 7905606 | 7.244 | - C1 | 181896.6875 | 0.0000 |
| 14.206 | 14.206 | 15.630 | 868642 | 4494698 | 4.118 | - C1 | 181896.6875 | 0.0000 |
| 14.259 | 14.259 | 15.630 | 907757 | 3935509 | 3.606 | - C1 | 181896.6875 | 0.0000 |
| 14.343 | 14.343 | 15.630 | 923521 | 4008627 | 3.673 | - C1 | 181896.6875 | 0.0000 |
| 14.459 | 14.459 | 15.630 | 990073 | 5953085 | 5.455 | - C1 | 181896.6875 | 0.0000 |
| 14.517 | 14.517 | 15.630 | 1063983 | 4542524 | 4.162 | - C1 | 181896.6875 | 0.0000 |
| 14.570 | 14.570 | 15.630 | 1027260 | 3721619 | 3.410 | - C1 | 181896.6875 | 0.0000 |
| 14.654 | 14.654 | 15.630 | 1031651 | 5362401 | 4.913 | - C1 | 181896.6875 | 0.0000 |
| 14.748 | 14.748 | 15.630 | 1066906 | 4731919 | 4.336 | - C1 | 181896.6875 | 0.0000 |
| 14.854 | 14.854 | 15.630 | 1132257 | 8998356 | 8.245 | - C1 | 181896.6875 | 0.0000 |
| 14.957 | 14.957 | 15.630 | 1216640 | 6748405 | 6.183 | - C1 | 181896.6875 | 0.0000 |
| 15.054 | 15.054 | 15.630 | 1256342 | 7652101 | 7.011 | - C1 | 181896.6875 | 0.0000 |
| 15.192 | 15.192 | 15.630 | 1326976 | 12132680 | 11.117 | - C1 | 181896.6875 | 0.0000 |
| 15.388 | 15.388 | 15.630 | 1399164 | 14044105 | 12.868 | - C1 | 181896.6875 | 0.0000 |
| 15.477 | 15.477 | 15.630 | 1495621 | 7593132 | 6.957 | - C1 | 181896.6875 | 0.0000 |
| 15.530 | 15.530 | 15.630 | 1734261 | 8347299 | 7.648 | - C1 | 181896.6875 | 0.0000 |
| 15.637 | 15.637 | 15.630 | 1585095 | 8246244 | 7.556 | - C1 | 181896.6875 | 0.0000 |
| 15.717 | 15.717 | 15.630 | 1849453 | 9282507 | 8.505 | - C1 | 181896.6875 | 0.0000 |
| 15.810 | 15.810 | 15.630 | 1804681 | 12150517 | 11.133 | - C1 | 181896.6875 | 0.0000 |

| RT mins | RT Corr | RT Exp | Hght uV | Area uVs | Mg/L-Mg/Kg | Peak name | RF slope | RF intercept |
|---------|---------|--------|---------|----------|------------|-----------|-------------|--------------|
| 15.974 | 15.974 | 15.630 | 2051711 | 18292300 | 16.761 | - C1 | 181896.6875 | 0.0000 |
| 16.090 | 16.090 | 15.630 | 2096190 | 13793609 | 12.639 | - C1 | 181896.6875 | 0.0000 |
| 16.241 | 16.241 | 15.630 | 5973406 | 22416884 | 20.540 | - C1 | 181896.6875 | 0.0000 |
| 16.343 | 16.343 | 15.630 | 2416921 | 11625923 | 10.652 | - C1 | 181896.6875 | 0.0000 |
| 16.388 | 16.388 | 15.630 | 2566693 | 7476494 | 6.850 | - C1 | 181896.6875 | 0.0000 |
| 16.432 | 16.432 | 15.630 | 2549367 | 7418587 | 6.797 | - C1 | 181896.6875 | 0.0000 |
| 16.481 | 16.481 | 15.630 | 2230024 | 7611234 | 6.974 | - C1 | 181896.6875 | 0.0000 |
| 16.552 | 16.552 | 15.630 | 2608049 | 19873404 | 18.209 | - C1 | 181896.6875 | 0.0000 |
| 16.699 | 16.699 | 15.630 | 2448370 | 13376973 | 12.257 | - C1 | 181896.6875 | 0.0000 |
| 16.810 | 16.810 | 15.630 | 2570929 | 17334636 | 15.883 | - C1 | 181896.6875 | 0.0000 |
| 16.886 | 16.886 | 15.630 | 2765608 | 27709934 | 25.390 | - C1 | 181896.6875 | 0.0000 |
| 17.072 | 17.072 | 15.630 | 2720532 | 14048618 | 12.872 | - C1 | 181896.6875 | 0.0000 |
| 17.188 | 17.188 | 15.630 | 6376786 | 22786626 | 20.879 | - C1 | 181896.6875 | 0.0000 |
| 17.317 | 17.317 | 15.630 | 2735071 | 20190396 | 18.500 | - C1 | 181896.6875 | 0.0000 |
| 17.406 | 17.406 | 15.630 | 2396862 | 9093594 | 8.332 | - C1 | 181896.6875 | 0.0000 |
| 17.494 | 17.494 | 15.630 | 2586350 | 20789976 | 19.049 | - C1 | 181896.6875 | 0.0000 |
| 17.614 | 17.614 | 15.630 | 2342732 | 28423144 | 26.043 | - C1 | 181896.6875 | 0.0000 |
| 17.868 | 17.868 | 15.630 | 2209666 | 11304845 | 10.358 | - C1 | 181896.6875 | 0.0000 |
| 17.926 | 17.926 | 15.630 | 2323456 | 17776714 | 16.288 | - C1 | 181896.6875 | 0.0000 |
| 18.094 | 18.094 | 15.630 | 1801798 | 10118045 | 9.271 | - C1 | 181896.6875 | 0.0000 |
| 18.157 | 18.157 | 15.630 | 1690054 | 10403894 | 9.533 | - C1 | 181896.6875 | 0.0000 |
| 18.286 | 18.286 | 15.630 | 1616275 | 7121656 | 6.525 | - C1 | 181896.6875 | 0.0000 |
| 18.374 | 18.374 | 15.630 | 1670058 | 9164423 | 8.397 | - C1 | 181896.6875 | 0.0000 |
| 18.428 | 18.428 | 15.630 | 1628089 | 8765782 | 8.032 | - C1 | 181896.6875 | 0.0000 |
| 18.517 | 18.517 | 15.630 | 1434805 | 8951873 | 8.202 | - C1 | 181896.6875 | 0.0000 |
| 18.623 | 18.623 | 15.630 | 1375766 | 7464850 | 6.840 | - C1 | 181896.6875 | 0.0000 |
| 18.717 | 18.717 | 15.630 | 1362030 | 5140847 | 4.710 | - C1 | 181896.6875 | 0.0000 |
| 18.792 | 18.792 | 15.630 | 1271286 | 7178812 | 6.578 | - C1 | 181896.6875 | 0.0000 |
| 18.899 | 18.899 | 15.630 | 1248863 | 11645393 | 10.670 | - C1 | 181896.6875 | 0.0000 |
| 19.028 | 19.028 | 15.630 | 1146564 | 5596638 | 5.128 | - C1 | 181896.6875 | 0.0000 |
| 19.121 | 19.121 | 15.630 | 1175654 | 5480719 | 5.022 | - C1 | 181896.6875 | 0.0000 |
| 19.219 | 19.219 | 15.630 | 1077678 | 5545037 | 5.081 | - C1 | 181896.6875 | 0.0000 |
| 19.312 | 19.312 | 15.630 | 1067622 | 15705632 | 14.391 | - C1 | 181896.6875 | 0.0000 |
| 19.539 | 19.539 | 15.630 | 940661 | 7330152 | 6.716 | - C1 | 181896.6875 | 0.0000 |
| 19.663 | 19.663 | 15.630 | 864072 | 5109512 | 4.682 | - C1 | 181896.6875 | 0.0000 |
| 19.783 | 19.783 | 15.630 | 899894 | 7494983 | 6.867 | - C1 | 181896.6875 | 0.0000 |
| 19.934 | 19.934 | 15.630 | 767743 | 3434301 | 3.147 | - C1 | 181896.6875 | 0.0000 |
| 19.992 | 19.992 | 15.630 | 777390 | 2990181 | 2.740 | - C1 | 181896.6875 | 0.0000 |
| 20.063 | 20.063 | 15.630 | 727744 | 5076886 | 4.652 | - C1 | 181896.6875 | 0.0000 |
| 20.166 | 20.166 | 15.630 | 696177 | 4466469 | 4.092 | - C1 | 181896.6875 | 0.0000 |
| 20.277 | 20.277 | 15.630 | 643141 | 2362945 | 2.165 | - C1 | 181896.6875 | 0.0000 |
| 20.370 | 20.370 | 15.630 | 700078 | 4993273 | 4.575 | - C1 | 181896.6875 | 0.0000 |
| 20.481 | 20.481 | 15.630 | 608184 | 15637068 | 14.328 | - C1 | 181896.6875 | 0.0000 |
| 20.930 | 20.930 | 15.630 | 499728 | 9383275 | 8.598 | - C1 | 181896.6875 | 0.0000 |
| 21.263 | 21.263 | 15.630 | 438888 | 3513584 | 3.219 | - C1 | 181896.6875 | 0.0000 |
| 21.432 | 21.432 | 15.630 | 417950 | 12332450 | 11.300 | - C1 | 181896.6875 | 0.0000 |

| Totals | | | |
|-------------|-----------|------------|---------|
| Unknowns | 14916365 | 437704256 | N/A |
| Quantified | 122048408 | 740260608 | 678.279 |
| Grand Total | 136964768 | 1177964928 | 678.279 |

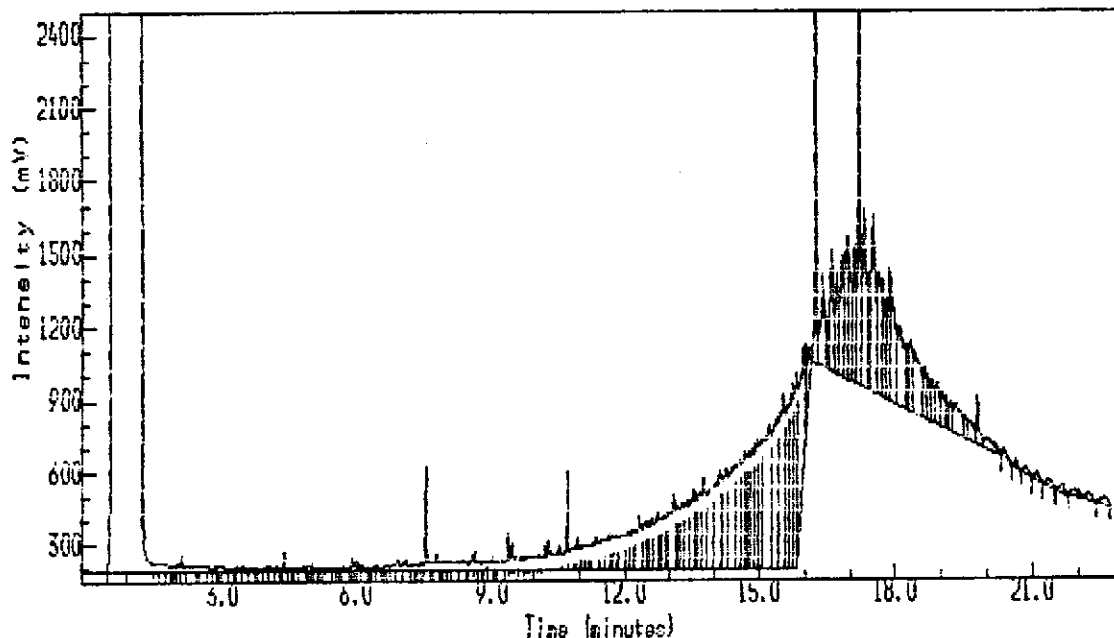
ANALYSIS SUMMARY

Method..... DROXTEND
Run sequence..... DRO
Calibration..... MOIL3597
External standard calibration using area
Calibration last modified on 7-MAR-1997 at 13:05

Uncalibrated peaks use user factor (0.0000)

Injection Report

Acquired on 3-SEP-1997 at 10:02



Intertek Testing Services - Environmental Laboratories

Analyst Name : VHLOGAN
 Lims Id :
 Comment : TPH BY 8015
 Method Title : TPH BY METHOD 8015 mod
 Sample Name : 10534-5RR 30/5
 Sample Id :
 Sample Type : Sample Amount=2.00000
 Bottle No : 5

AC193-83

*Material 366 mg/kg
 Extended
 Sun 133%*

PEAK INFORMATION

| RT mins | RT Exp | Area uVs | Mg/L-Mg/Kg | Peak name | RF slope | RF intercept |
|---------|--------|----------|------------|---------------|-------------|--------------|
| | 8.306 | 50436840 | 47.561 | TPH AS DIESEL | 176745.2500 | 0.0000 |
| 2.783 | 8.306 | 100055 | 0.094 | - C1 | 176745.2500 | 0.0000 |
| 2.930 | 8.306 | 55072 | 0.052 | - C1 | 176745.2500 | 0.0000 |
| 2.992 | 8.306 | 67407 | 0.064 | - C1 | 176745.2500 | 0.0000 |
| 3.068 | 8.306 | 55083 | 0.052 | - C1 | 176745.2500 | 0.0000 |
| 3.108 | 8.306 | 117718 | 0.111 | - C1 | 176745.2500 | 0.0000 |
| 3.303 | 8.306 | 74606 | 0.070 | - C1 | 176745.2500 | 0.0000 |
| 3.374 | 8.306 | 53369 | 0.050 | - C1 | 176745.2500 | 0.0000 |
| 3.441 | 8.306 | 76253 | 0.072 | - C1 | 176745.2500 | 0.0000 |
| 3.592 | 8.306 | 108099 | 0.102 | - C1 | 176745.2500 | 0.0000 |
| 3.726 | 8.306 | 74361 | 0.070 | - C1 | 176745.2500 | 0.0000 |
| 3.868 | 8.306 | 39585 | 0.037 | - C1 | 176745.2500 | 0.0000 |
| 3.930 | 8.306 | 55424 | 0.052 | - C1 | 176745.2500 | 0.0000 |

VH 9-3-97

| RT mins | RT Exp | Area uVs | Mg/L-Mg/Kg | Peak name | RF slope | RF intercept |
|---------|--------|----------|------------|-----------|-------------|--------------|
| 4.099 | 8.306 | 86712 | 0.082 | - C1 | 176745.2500 | 0.0000 |
| 4.174 | 8.306 | 88673 | 0.084 | - C1 | 176745.2500 | 0.0000 |
| 4.312 | 8.306 | 76044 | 0.072 | - C1 | 176745.2500 | 0.0000 |
| 4.414 | 8.306 | 41837 | 0.039 | - C1 | 176745.2500 | 0.0000 |
| 4.490 | 8.306 | 149190 | 0.141 | - C1 | 176745.2500 | 0.0000 |
| 4.579 | 8.306 | 57214 | 0.054 | - C1 | 176745.2500 | 0.0000 |
| 4.708 | 8.306 | 46141 | 0.044 | - C1 | 176745.2500 | 0.0000 |
| 4.752 | 8.306 | 44195 | 0.042 | - C1 | 176745.2500 | 0.0000 |
| 4.926 | 8.306 | 126930 | 0.120 | - C1 | 176745.2500 | 0.0000 |
| 5.019 | 8.306 | 43471 | 0.041 | - C1 | 176745.2500 | 0.0000 |
| 5.068 | 8.306 | 36212 | 0.034 | - C1 | 176745.2500 | 0.0000 |
| 5.121 | 8.306 | 68132 | 0.064 | - C1 | 176745.2500 | 0.0000 |
| 5.183 | 8.306 | 45898 | 0.043 | - C1 | 176745.2500 | 0.0000 |
| 5.259 | 8.306 | 38508 | 0.036 | - C1 | 176745.2500 | 0.0000 |
| 5.334 | 8.306 | 30158 | 0.028 | - C1 | 176745.2500 | 0.0000 |
| 5.388 | 8.306 | 36170 | 0.034 | - C1 | 176745.2500 | 0.0000 |
| 5.503 | 8.306 | 73682 | 0.069 | - C1 | 176745.2500 | 0.0000 |
| 5.646 | 8.306 | 50604 | 0.048 | - C1 | 176745.2500 | 0.0000 |
| 5.694 | 8.306 | 30739 | 0.029 | - C1 | 176745.2500 | 0.0000 |
| 5.748 | 8.306 | 37537 | 0.035 | - C1 | 176745.2500 | 0.0000 |
| 5.837 | 8.306 | 112362 | 0.106 | - C1 | 176745.2500 | 0.0000 |
| 6.014 | 8.306 | 137607 | 0.130 | - C1 | 176745.2500 | 0.0000 |
| 6.094 | 8.306 | 81047 | 0.076 | - C1 | 176745.2500 | 0.0000 |
| 6.170 | 8.306 | 92651 | 0.087 | - C1 | 176745.2500 | 0.0000 |
| 6.254 | 8.306 | 86812 | 0.082 | - C1 | 176745.2500 | 0.0000 |
| 6.397 | 8.306 | 32548 | 0.031 | - C1 | 176745.2500 | 0.0000 |
| 6.450 | 8.306 | 26380 | 0.025 | - C1 | 176745.2500 | 0.0000 |
| 6.499 | 8.306 | 39662 | 0.037 | - C1 | 176745.2500 | 0.0000 |
| 6.570 | 8.306 | 83839 | 0.079 | - C1 | 176745.2500 | 0.0000 |
| 6.690 | 8.306 | 39403 | 0.037 | - C1 | 176745.2500 | 0.0000 |
| 6.766 | 8.306 | 56740 | 0.054 | - C1 | 176745.2500 | 0.0000 |
| 6.810 | 8.306 | 72173 | 0.068 | - C1 | 176745.2500 | 0.0000 |
| 6.948 | 8.306 | 111875 | 0.105 | - C1 | 176745.2500 | 0.0000 |
| 7.054 | 8.306 | 251161 | 0.237 | - C1 | 176745.2500 | 0.0000 |
| 7.174 | 8.306 | 243954 | 0.230 | - C1 | 176745.2500 | 0.0000 |
| 7.388 | 8.306 | 115171 | 0.109 | - C1 | 176745.2500 | 0.0000 |
| 7.437 | 8.306 | 49405 | 0.047 | - C1 | 176745.2500 | 0.0000 |
| 7.490 | 8.306 | 78069 | 0.074 | - C1 | 176745.2500 | 0.0000 |
| 7.570 | 8.306 | 82817 | 0.078 | - C1 | 176745.2500 | 0.0000 |
| 7.663 | 8.306 | 786220 | 0.741 | - C1 | 176745.2500 | 0.0000 |
| 7.761 | 8.306 | 137056 | 0.129 | - C1 | 176745.2500 | 0.0000 |
| 7.894 | 8.306 | 287225 | 0.271 | - C1 | 176745.2500 | 0.0000 |
| 7.983 | 8.306 | 140590 | 0.133 | - C1 | 176745.2500 | 0.0000 |
| 8.108 | 8.306 | 146931 | 0.139 | - C1 | 176745.2500 | 0.0000 |
| 8.148 | 8.306 | 139282 | 0.131 | - C1 | 176745.2500 | 0.0000 |
| 8.317 | 8.306 | 313819 | 0.296 | - C1 | 176745.2500 | 0.0000 |
| 8.463 | 8.306 | 285907 | 0.270 | - C1 | 176745.2500 | 0.0000 |
| 8.579 | 8.306 | 79064 | 0.075 | - C1 | 176745.2500 | 0.0000 |
| 8.672 | 8.306 | 213969 | 0.202 | - C1 | 176745.2500 | 0.0000 |
| 8.721 | 8.306 | 218859 | 0.206 | - C1 | 176745.2500 | 0.0000 |
| 8.823 | 8.306 | 159229 | 0.150 | - C1 | 176745.2500 | 0.0000 |
| 8.899 | 8.306 | 81888 | 0.077 | - C1 | 176745.2500 | 0.0000 |
| 9.112 | 8.306 | 407917 | 0.385 | - C1 | 176745.2500 | 0.0000 |

| RT mins | RT Exp | Area uVs | Mq/L-Mq/Kg | Peak name | RF slope | RF intercept |
|---------|--------|----------|------------|--------------|-------------|--------------|
| 9.166 | 8.306 | 111568 | 0.105 | - C1 | 176745.2500 | 0.0000 |
| 9.299 | 8.306 | 338035 | 0.319 | - C1 | 176745.2500 | 0.0000 |
| 9.450 | 8.306 | 373327 | 0.352 | - C1 | 176745.2500 | 0.0000 |
| 9.512 | 8.306 | 211766 | 0.200 | - C1 | 176745.2500 | 0.0000 |
| 9.557 | 8.306 | 230666 | 0.218 | - C1 | 176745.2500 | 0.0000 |
| 9.619 | 8.306 | 274741 | 0.259 | - C1 | 176745.2500 | 0.0000 |
| 9.766 | 8.306 | 273041 | 0.257 | - C1 | 176745.2500 | 0.0000 |
| 9.846 | 8.306 | 214429 | 0.202 | - C1 | 176745.2500 | 0.0000 |
| 9.899 | 8.306 | 191132 | 0.180 | - C1 | 176745.2500 | 0.0000 |
| 9.988 | 8.306 | 279315 | 0.263 | - C1 | 176745.2500 | 0.0000 |
| 10.059 | 8.306 | 195098 | 0.184 | - C1 | 176745.2500 | 0.0000 |
| 10.117 | 8.306 | 343092 | 0.324 | - C1 | 176745.2500 | 0.0000 |
| 10.259 | 8.306 | 416253 | 0.393 | - C1 | 176745.2500 | 0.0000 |
| 10.330 | 8.306 | 562180 | 0.530 | - C1 | 176745.2500 | 0.0000 |
| 10.468 | 8.306 | 272457 | 0.257 | - C1 | 176745.2500 | 0.0000 |
| 10.574 | 8.306 | 610918 | 0.576 | - C1 | 176745.2500 | 0.0000 |
| 10.739 | 8.306 | 1116045 | 1.052 | - C1 | 176745.2500 | 0.0000 |
| 10.832 | 8.306 | 485115 | 0.457 | - C1 | 176745.2500 | 0.0000 |
| 10.921 | 8.306 | 319277 | 0.301 | - C1 | 176745.2500 | 0.0000 |
| 10.970 | 8.306 | 587543 | 0.554 | - C1 | 176745.2500 | 0.0000 |
| 11.103 | 8.306 | 597545 | 0.563 | - C1 | 176745.2500 | 0.0000 |
| 11.183 | 8.306 | 481599 | 0.454 | - C1 | 176745.2500 | 0.0000 |
| 11.254 | 8.306 | 405548 | 0.382 | - C1 | 176745.2500 | 0.0000 |
| 11.383 | 8.306 | 1142266 | 1.077 | - C1 | 176745.2500 | 0.0000 |
| 11.530 | 8.306 | 758787 | 0.716 | - C1 | 176745.2500 | 0.0000 |
| 11.654 | 8.306 | 841834 | 0.794 | - C1 | 176745.2500 | 0.0000 |
| 11.712 | 8.306 | 661961 | 0.624 | - C1 | 176745.2500 | 0.0000 |
| 11.788 | 8.306 | 527365 | 0.497 | - C1 | 176745.2500 | 0.0000 |
| 11.846 | 8.306 | 413384 | 0.390 | - C1 | 176745.2500 | 0.0000 |
| 11.943 | 8.306 | 1068380 | 1.007 | - C1 | 176745.2500 | 0.0000 |
| 12.072 | 8.306 | 980970 | 0.925 | - C1 | 176745.2500 | 0.0000 |
| 12.161 | 8.306 | 688691 | 0.649 | - C1 | 176745.2500 | 0.0000 |
| 12.210 | 8.306 | 546293 | 0.515 | - C1 | 176745.2500 | 0.0000 |
| 12.312 | 8.306 | 1591814 | 1.501 | - C1 | 176745.2500 | 0.0000 |
| 12.454 | 8.306 | 1090938 | 1.029 | - C1 | 176745.2500 | 0.0000 |
| 12.517 | 8.306 | 678409 | 0.640 | - C1 | 176745.2500 | 0.0000 |
| 12.597 | 8.306 | 1185220 | 1.118 | - C1 | 176745.2500 | 0.0000 |
| 12.726 | 8.306 | 1265725 | 1.194 | - C1 | 176745.2500 | 0.0000 |
| 12.779 | 8.306 | 934118 | 0.881 | - C1 | 176745.2500 | 0.0000 |
| 12.877 | 8.306 | 1060168 | 1.000 | - C1 | 176745.2500 | 0.0000 |
| 12.934 | 8.306 | 891277 | 0.840 | - C1 | 176745.2500 | 0.0000 |
| 13.072 | 8.306 | 2517622 | 2.374 | - C1 | 176745.2500 | 0.0000 |
| 13.148 | 8.306 | 875922 | 0.826 | - C1 | 176745.2500 | 0.0000 |
| 13.201 | 8.306 | 730269 | 0.689 | - C1 | 176745.2500 | 0.0000 |
| 13.272 | 8.306 | 1307018 | 1.232 | - C1 | 176745.2500 | 0.0000 |
| 13.388 | 8.306 | 2073833 | 1.956 | - C1 | 176745.2500 | 0.0000 |
| 13.534 | 8.306 | 2381474 | 2.246 | - C1 | 176745.2500 | 0.0000 |
| 13.579 | 8.306 | 949337 | 0.895 | - C1 | 176745.2500 | 0.0000 |
| 13.677 | 8.306 | 1923536 | 1.814 | - C1 | 176745.2500 | 0.0000 |
| 13.739 | 8.306 | 2234498 | 2.107 | - C1 | 176745.2500 | 0.0000 |
| 13.926 | 8.306 | 2948325 | 2.780 | - C1 | 176745.2500 | 0.0000 |
| 16.228 | 16.287 | 7813887 | 8.746 | n-OCTACOSANE | 148898.0156 | 0.0000 |
| 17.174 | 17.233 | 10560066 | 11.109 | TRIACONTANE | 158425.2031 | 0.0000 |

| <u>RT mins</u> | <u>RT Exp</u> | <u>Area uVs</u> | <u>Mg/L-Mg/Kg</u> | <u>Peak name</u> | <u>RF slope</u> | <u>RF intercept</u> |
|----------------|---------------|-----------------|-------------------|------------------|-----------------|---------------------|
|----------------|---------------|-----------------|-------------------|------------------|-----------------|---------------------|

Totals

| | | | | | | |
|-------------|-----------|--------|--|--|--|--|
| Unknowns | 532900416 | N/A | | | | |
| Quantified | 68810792 | 67.417 | | | | |
| Grand Total | 601711232 | 67.417 | | | | |

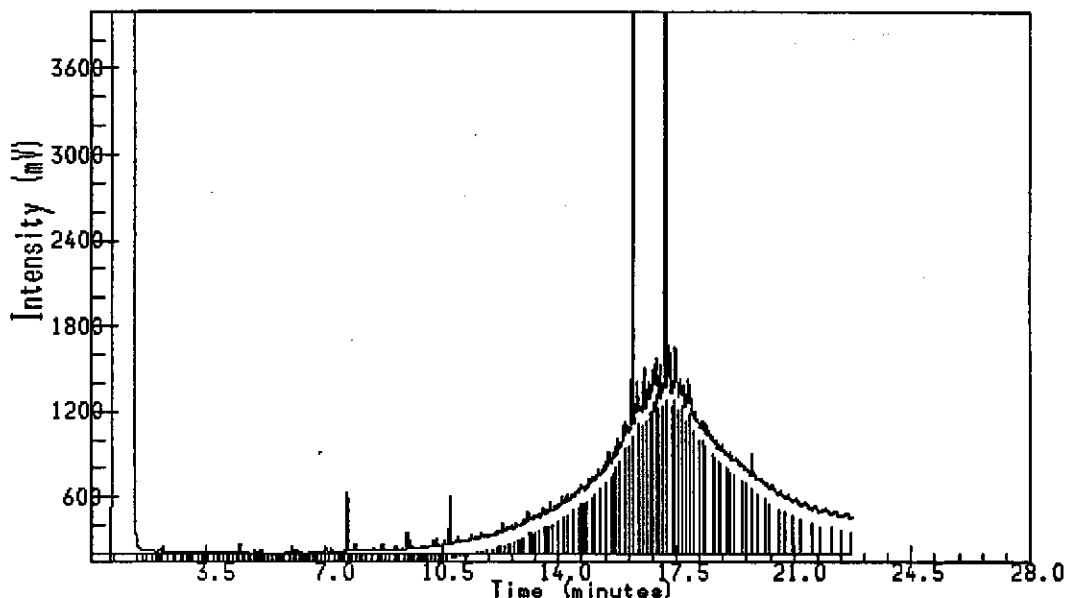
ANALYSIS SUMMARY

Method..... DRD
Run sequence..... DRD
Calibration..... DR00397
External standard calibration using area
Calibration last modified on 31-JUL-1997 at 13:47

Uncalibrated peaks use user factor (0.0000)

Injectio

Acquired on 3-SEP-1997 at 10:02



Intertek Testing Services - Environmental Laboratories

Analyst Name : VHLOGAN
 Lims Id :
 Comment : TPH BY 8015
 Method Title : TPH BY METHOD 8015 mod
 Sample Name : 10534-5RR 30/5 AC193-83
 Sample Id :
 Sample Type : Sample Amount=2.00000
 Bottle No : 5

PEAK INFORMATION

| RT mins | RT Corr | RT Exp | Hght uV | Area uVs | Mg/L-Mg/Kg | Peak name | RF slope | RF intercept |
|---------|---------|--------|----------|-----------|------------|-----------|-------------|--------------|
| | | 15.630 | 65201576 | 399053184 | 365.641 | MOTOR OIL | 181896.6875 | 0.0000 |
| 9.766 | 9.766 | 15.630 | 49748 | 279199 | 0.256 | - C1 | 181896.6875 | 0.0000 |
| 9.846 | 9.846 | 15.630 | 48256 | 219047 | 0.201 | - C1 | 181896.6875 | 0.0000 |
| 9.899 | 9.899 | 15.630 | 51975 | 194980 | 0.179 | - C1 | 181896.6875 | 0.0000 |
| 9.988 | 9.988 | 15.630 | 53472 | 284703 | 0.261 | - C1 | 181896.6875 | 0.0000 |
| 10.059 | 10.059 | 15.630 | 50876 | 198946 | 0.182 | - C1 | 181896.6875 | 0.0000 |
| 10.117 | 10.117 | 15.630 | 62337 | 349250 | 0.320 | - C1 | 181896.6875 | 0.0000 |
| 10.259 | 10.259 | 15.630 | 95882 | 422668 | 0.387 | - C1 | 181896.6875 | 0.0000 |
| 10.330 | 10.330 | 15.630 | 117013 | 569877 | 0.522 | - C1 | 181896.6875 | 0.0000 |
| 10.468 | 10.468 | 15.630 | 62713 | 276819 | 0.254 | - C1 | 181896.6875 | 0.0000 |
| 10.574 | 10.574 | 15.630 | 94654 | 619385 | 0.568 | - C1 | 181896.6875 | 0.0000 |
| 10.739 | 10.739 | 15.630 | 403335 | 1125282 | 1.031 | - C1 | 181896.6875 | 0.0000 |

10534-5RR
 181896.6875

| RT mins | RT Corr | RT Exp | Hght uV | Area uVs | Mg/L-Mg/Kg | Peak name | RF slope | RF intercept |
|---------|---------|--------|---------|----------|------------|-----------|-------------|--------------|
| 10.832 | 10.832 | 15.630 | 84054 | 491017 | 0.450 | - C1 | 181896.6875 | 0.0000 |
| 10.921 | 10.921 | 15.630 | 98087 | 322869 | 0.296 | - C1 | 181896.6875 | 0.0000 |
| 10.970 | 10.970 | 15.630 | 124609 | 593444 | 0.544 | - C1 | 181896.6875 | 0.0000 |
| 11.103 | 11.103 | 15.630 | 100062 | 603703 | 0.553 | - C1 | 181896.6875 | 0.0000 |
| 11.183 | 11.183 | 15.630 | 100186 | 486474 | 0.446 | - C1 | 181896.6875 | 0.0000 |
| 11.254 | 11.254 | 15.630 | 100774 | 409653 | 0.375 | - C1 | 181896.6875 | 0.0000 |
| 11.383 | 11.383 | 15.630 | 132582 | 1152529 | 1.056 | - C1 | 181896.6875 | 0.0000 |
| 11.530 | 11.530 | 15.630 | 119383 | 765202 | 0.701 | - C1 | 181896.6875 | 0.0000 |
| 11.654 | 11.654 | 15.630 | 150826 | 848505 | 0.777 | - C1 | 181896.6875 | 0.0000 |
| 11.712 | 11.712 | 15.630 | 144646 | 666836 | 0.611 | - C1 | 181896.6875 | 0.0000 |
| 11.788 | 11.788 | 15.630 | 142374 | 531214 | 0.487 | - C1 | 181896.6875 | 0.0000 |
| 11.846 | 11.846 | 15.630 | 133533 | 416463 | 0.382 | - C1 | 181896.6875 | 0.0000 |
| 11.943 | 11.943 | 15.630 | 138576 | 1076077 | 0.986 | - C1 | 181896.6875 | 0.0000 |
| 12.072 | 12.072 | 15.630 | 149068 | 987641 | 0.905 | - C1 | 181896.6875 | 0.0000 |
| 12.161 | 12.161 | 15.630 | 165803 | 693053 | 0.635 | - C1 | 181896.6875 | 0.0000 |
| 12.210 | 12.210 | 15.630 | 167594 | 549629 | 0.504 | - C1 | 181896.6875 | 0.0000 |
| 12.312 | 12.312 | 15.630 | 217569 | 1600794 | 1.467 | - C1 | 181896.6875 | 0.0000 |
| 12.454 | 12.454 | 15.630 | 190026 | 1096840 | 1.005 | - C1 | 181896.6875 | 0.0000 |
| 12.517 | 12.517 | 15.630 | 191271 | 682001 | 0.625 | - C1 | 181896.6875 | 0.0000 |
| 12.597 | 12.597 | 15.630 | 209062 | 1191378 | 1.092 | - C1 | 181896.6875 | 0.0000 |
| 12.726 | 12.726 | 15.630 | 222540 | 1271883 | 1.165 | - C1 | 181896.6875 | 0.0000 |
| 12.779 | 12.779 | 15.630 | 210075 | 938479 | 0.860 | - C1 | 181896.6875 | 0.0000 |
| 12.877 | 12.877 | 15.630 | 219578 | 1065043 | 0.976 | - C1 | 181896.6875 | 0.0000 |
| 12.934 | 12.934 | 15.630 | 243947 | 895126 | 0.820 | - C1 | 181896.6875 | 0.0000 |
| 13.072 | 13.072 | 15.630 | 301437 | 2527372 | 2.316 | - C1 | 181896.6875 | 0.0000 |
| 13.148 | 13.148 | 15.630 | 264549 | 879257 | 0.806 | - C1 | 181896.6875 | 0.0000 |
| 13.201 | 13.201 | 15.630 | 254743 | 733091 | 0.672 | - C1 | 181896.6875 | 0.0000 |
| 13.272 | 13.272 | 15.630 | 274040 | 1311893 | 1.202 | - C1 | 181896.6875 | 0.0000 |
| 13.388 | 13.388 | 15.630 | 285210 | 2081274 | 1.907 | - C1 | 181896.6875 | 0.0000 |
| 13.534 | 13.534 | 15.630 | 324947 | 2389428 | 2.189 | - C1 | 181896.6875 | 0.0000 |
| 13.579 | 13.579 | 15.630 | 313191 | 952416 | 0.873 | - C1 | 181896.6875 | 0.0000 |
| 13.677 | 13.677 | 15.630 | 313077 | 1929693 | 1.768 | - C1 | 181896.6875 | 0.0000 |
| 13.739 | 13.739 | 15.630 | 371570 | 2241168 | 2.054 | - C1 | 181896.6875 | 0.0000 |
| 13.926 | 13.926 | 15.630 | 338905 | 2957049 | 2.709 | - C1 | 181896.6875 | 0.0000 |
| 14.112 | 14.112 | 15.630 | 406699 | 3714154 | 3.403 | - C1 | 181896.6875 | 0.0000 |
| 14.161 | 14.161 | 15.630 | 381245 | 988068 | 0.905 | - C1 | 181896.6875 | 0.0000 |
| 14.254 | 14.254 | 15.630 | 414209 | 2762980 | 2.532 | - C1 | 181896.6875 | 0.0000 |
| 14.446 | 14.446 | 15.630 | 422704 | 4067976 | 3.727 | - C1 | 181896.6875 | 0.0000 |
| 14.552 | 14.552 | 15.630 | 450518 | 3554675 | 3.257 | - C1 | 181896.6875 | 0.0000 |
| 14.663 | 14.663 | 15.630 | 482683 | 2767499 | 2.536 | - C1 | 181896.6875 | 0.0000 |
| 14.726 | 14.726 | 15.630 | 469393 | 1721201 | 1.577 | - C1 | 181896.6875 | 0.0000 |
| 14.770 | 14.770 | 15.630 | 477190 | 1479237 | 1.355 | - C1 | 181896.6875 | 0.0000 |
| 14.837 | 14.837 | 15.630 | 485119 | 2272907 | 2.083 | - C1 | 181896.6875 | 0.0000 |
| 14.943 | 14.943 | 15.630 | 530071 | 3201866 | 2.934 | - C1 | 181896.6875 | 0.0000 |
| 15.037 | 15.037 | 15.630 | 534784 | 3167390 | 2.902 | - C1 | 181896.6875 | 0.0000 |
| 15.197 | 15.197 | 15.630 | 591292 | 6762101 | 6.196 | - C1 | 181896.6875 | 0.0000 |
| 15.374 | 15.374 | 15.630 | 619831 | 4704712 | 4.311 | - C1 | 181896.6875 | 0.0000 |
| 15.512 | 15.512 | 15.630 | 716664 | 6902282 | 6.324 | - C1 | 181896.6875 | 0.0000 |
| 15.623 | 15.623 | 15.630 | 681874 | 3368498 | 3.086 | - C1 | 181896.6875 | 0.0000 |
| 15.703 | 15.703 | 15.630 | 761037 | 3814257 | 3.495 | - C1 | 181896.6875 | 0.0000 |
| 15.792 | 15.792 | 15.630 | 808801 | 3985532 | 3.652 | - C1 | 181896.6875 | 0.0000 |
| 15.992 | 15.992 | 15.630 | 927555 | 9790058 | 8.970 | - C1 | 181896.6875 | 0.0000 |
| 16.086 | 16.086 | 15.630 | 908961 | 6027295 | 5.523 | - C1 | 181896.6875 | 0.0000 |

| RT mins | RT Corr | RT Exp | Hght uV | Area uVs | Mq/L-Mq/Kq | Peak name | RF slope | RF intercept |
|---------------|---------|--------|----------|-----------|------------|-----------|-------------|--------------|
| 16.228 | 16.228 | 15.630 | 5902202 | 14828044 | 13.587 | - C1 | 181896.6875 | 0.0000 |
| 16.361 | 16.361 | 15.630 | 1216771 | 11127344 | 10.196 | - C1 | 181896.6875 | 0.0000 |
| 16.459 | 16.459 | 15.630 | 1040840 | 4095370 | 3.752 | - C1 | 181896.6875 | 0.0000 |
| 16.570 | 16.570 | 15.630 | 1308586 | 8558736 | 7.842 | - C1 | 181896.6875 | 0.0000 |
| 16.677 | 16.677 | 15.630 | 1217730 | 7418020 | 6.797 | - C1 | 181896.6875 | 0.0000 |
| 16.792 | 16.792 | 15.630 | 1294603 | 7848589 | 7.191 | - C1 | 181896.6875 | 0.0000 |
| 16.903 | 16.903 | 15.630 | 1371422 | 7413452 | 6.793 | - C1 | 181896.6875 | 0.0000 |
| 16.943 | 16.943 | 15.630 | 1286614 | 6756920 | 6.191 | - C1 | 181896.6875 | 0.0000 |
| 17.054 | 17.054 | 15.630 | 1338522 | 6748330 | 6.183 | - C1 | 181896.6875 | 0.0000 |
| 17.174 | 17.174 | 15.630 | 6130418 | 16207231 | 14.850 | - C1 | 181896.6875 | 0.0000 |
| 17.272 | 17.272 | 15.630 | 1476872 | 10971255 | 10.053 | - C1 | 181896.6875 | 0.0000 |
| 17.388 | 17.388 | 15.630 | 1221757 | 4735463 | 4.339 | - C1 | 181896.6875 | 0.0000 |
| 17.472 | 17.472 | 15.630 | 1455836 | 10822459 | 9.916 | - C1 | 181896.6875 | 0.0000 |
| 17.601 | 17.601 | 15.630 | 1230037 | 8729484 | 7.999 | - C1 | 181896.6875 | 0.0000 |
| 17.703 | 17.703 | 15.630 | 1191194 | 6211560 | 5.691 | - C1 | 181896.6875 | 0.0000 |
| 17.850 | 17.850 | 15.630 | 1232648 | 7660645 | 7.019 | - C1 | 181896.6875 | 0.0000 |
| 17.903 | 17.903 | 15.630 | 1190128 | 9260268 | 8.485 | - C1 | 181896.6875 | 0.0000 |
| 18.068 | 18.068 | 15.630 | 998556 | 11149145 | 10.216 | - C1 | 181896.6875 | 0.0000 |
| 18.246 | 18.246 | 15.630 | 931916 | 4132560 | 3.787 | - C1 | 181896.6875 | 0.0000 |
| 18.312 | 18.312 | 15.630 | 935583 | 5525686 | 5.063 | - C1 | 181896.6875 | 0.0000 |
| 18.414 | 18.414 | 15.630 | 899524 | 10562501 | 9.678 | - C1 | 181896.6875 | 0.0000 |
| 18.619 | 18.619 | 15.630 | 826547 | 4263133 | 3.906 | - C1 | 181896.6875 | 0.0000 |
| 18.694 | 18.694 | 15.630 | 794351 | 4108914 | 3.765 | - C1 | 181896.6875 | 0.0000 |
| 18.779 | 18.779 | 15.630 | 770692 | 3577807 | 3.278 | - C1 | 181896.6875 | 0.0000 |
| 18.881 | 18.881 | 15.630 | 764749 | 6457594 | 5.917 | - C1 | 181896.6875 | 0.0000 |
| 19.010 | 19.010 | 15.630 | 721414 | 4500791 | 4.124 | - C1 | 181896.6875 | 0.0000 |
| 19.099 | 19.099 | 15.630 | 714323 | 2754954 | 2.524 | - C1 | 181896.6875 | 0.0000 |
| 19.197 | 19.197 | 15.630 | 684573 | 3758364 | 3.444 | - C1 | 181896.6875 | 0.0000 |
| 19.303 | 19.303 | 15.630 | 676109 | 9203300 | 8.433 | - C1 | 181896.6875 | 0.0000 |
| 19.477 | 19.477 | 15.630 | 627861 | 3941863 | 3.612 | - C1 | 181896.6875 | 0.0000 |
| 19.579 | 19.579 | 15.630 | 603878 | 6266310 | 5.742 | - C1 | 181896.6875 | 0.0000 |
| 19.770 | 19.770 | 15.630 | 709679 | 5821208 | 5.334 | - C1 | 181896.6875 | 0.0000 |
| 19.974 | 19.974 | 15.630 | 533876 | 8821733 | 8.083 | - C1 | 181896.6875 | 0.0000 |
| 20.197 | 20.197 | 15.630 | 505585 | 3593291 | 3.292 | - C1 | 181896.6875 | 0.0000 |
| 20.357 | 20.357 | 15.630 | 488667 | 6443435 | 5.904 | - C1 | 181896.6875 | 0.0000 |
| 20.628 | 20.628 | 15.630 | 442536 | 5482410 | 5.023 | - C1 | 181896.6875 | 0.0000 |
| 20.854 | 20.854 | 15.630 | 416853 | 5791308 | 5.306 | - C1 | 181896.6875 | 0.0000 |
| 21.081 | 21.081 | 15.630 | 388496 | 5240595 | 4.802 | - C1 | 181896.6875 | 0.0000 |
| 21.339 | 21.339 | 15.630 | 361321 | 6334903 | 5.804 | - C1 | 181896.6875 | 0.0000 |
| 21.610 | 21.610 | 15.630 | 339522 | 4996876 | 4.578 | - C1 | 181896.6875 | 0.0000 |
| Totals | | | | | | | | |
| Unknowns | | | 13462904 | 430381056 | N/A | | | |
| Quantified | | | 65201576 | 399053184 | 365.641 | | | |
| Grand Total | | | 78664480 | 829434240 | 365.641 | | | |

ANALYSIS SUMMARY

Method..... DROXTEND
Run sequence..... DRO
Calibration..... MOIL3597
External standard calibration using area
Calibration last modified on 7-MAR-1997 at 13:05

Uncalibrated peaks use user factor (0.0000)



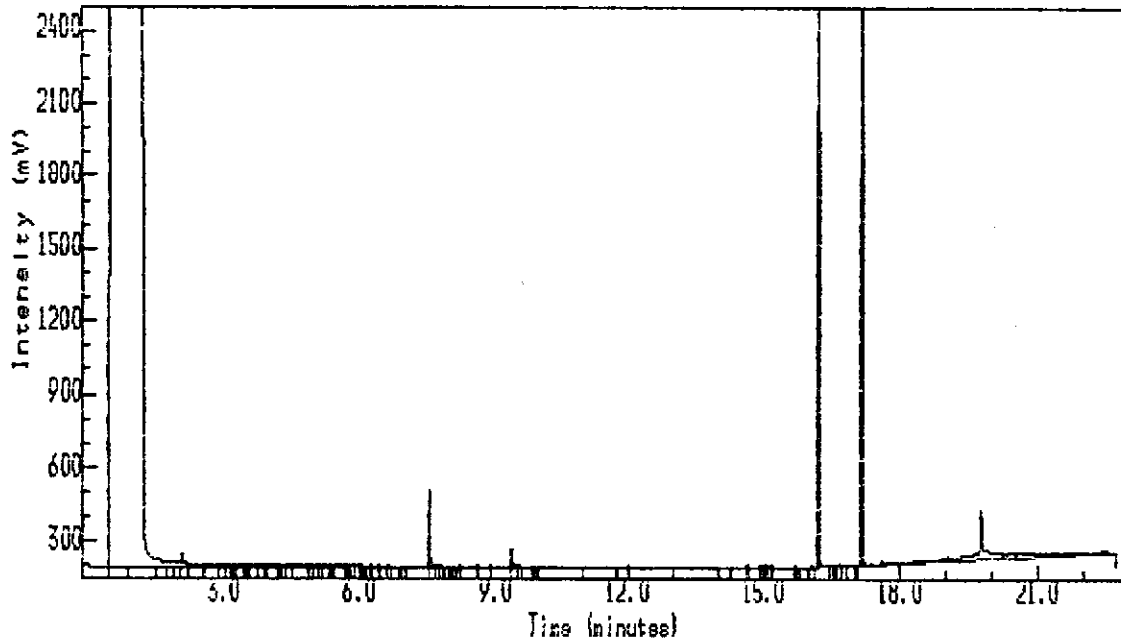
Intertek Testing Services
Environmental Laboratories

QUALITY CONTROL DATA

Intertek Testing Services NA Inc.
1089 East Collins Boulevard Richardson, TX 75081
Telephone (972) 238-5591 Fax (972) 238-5592

Injection Report

Acquired on 2-SEP-1997 at 19:40



Intertek Testing Services - Environmental Laboratories

Analyst Name : VHLOGAN
 Lims Id :
 Comment : TPH BY 8015
 Method Title : TPH BY METHOD 8015 mod
 Sample Name : BLK 30/5 AC193-83
 Sample Id :
 Sample Type : Sample Amount=2.00000
 Bottle No : 19

*TPH 40%
 Sum 88.1%*

PEAK INFORMATION

| RT mins | RT Exp | Area uVs | Mg/L-Mg/Kg | Peak name | RF slope | RF intercept |
|---------|--------|----------|------------|---------------|-------------|--------------|
| | 8.306 | 1429765 | 1.348 | TPH AS DIESEL | 176745.2500 | 0.0000 |
| 2.783 | 8.306 | 130944 | 0.123 | - C1 | 176745.2500 | 0.0000 |
| 3.086 | 8.306 | 61291 | 0.058 | - C1 | 176745.2500 | 0.0000 |
| 3.183 | 8.306 | 40104 | 0.038 | - C1 | 176745.2500 | 0.0000 |
| 3.312 | 8.306 | 20428 | 0.019 | - C1 | 176745.2500 | 0.0000 |
| 3.357 | 8.306 | 18783 | 0.018 | - C1 | 176745.2500 | 0.0000 |
| 3.410 | 8.306 | 53346 | 0.050 | - C1 | 176745.2500 | 0.0000 |
| 3.606 | 8.306 | 21281 | 0.020 | - C1 | 176745.2500 | 0.0000 |
| 3.654 | 8.306 | 16339 | 0.015 | - C1 | 176745.2500 | 0.0000 |
| 3.717 | 8.306 | 38655 | 0.036 | - C1 | 176745.2500 | 0.0000 |
| 3.890 | 8.306 | 35844 | 0.034 | - C1 | 176745.2500 | 0.0000 |
| 4.023 | 8.306 | 15504 | 0.015 | - C1 | 176745.2500 | 0.0000 |
| 4.103 | 8.306 | 44607 | 0.042 | - C1 | 176745.2500 | 0.0000 |

Utz 9-3-97

| RT mins | RT Exp | Area uVs | Mg/L-Mg/Kg | Peak name | RF slope | RF intercept |
|---------|--------|----------|------------|--------------|-------------|--------------|
| 4.321 | 8.306 | 8720 | 0.008 | - C1 | 176745.2500 | 0.0000 |
| 4.374 | 8.306 | 6596 | 0.006 | - C1 | 176745.2500 | 0.0000 |
| 4.446 | 8.306 | 15137 | 0.014 | - C1 | 176745.2500 | 0.0000 |
| 4.499 | 8.306 | 28119 | 0.027 | - C1 | 176745.2500 | 0.0000 |
| 4.703 | 8.306 | 43877 | 0.041 | - C1 | 176745.2500 | 0.0000 |
| 5.023 | 8.306 | 16972 | 0.016 | - C1 | 176745.2500 | 0.0000 |
| 5.117 | 8.306 | 12649 | 0.012 | - C1 | 176745.2500 | 0.0000 |
| 5.254 | 8.306 | 6512 | 0.006 | - C1 | 176745.2500 | 0.0000 |
| 5.317 | 8.306 | 8692 | 0.008 | - C1 | 176745.2500 | 0.0000 |
| 5.472 | 8.306 | 3257 | 0.003 | - C1 | 176745.2500 | 0.0000 |
| 5.557 | 8.306 | 2038 | 0.002 | - C1 | 176745.2500 | 0.0000 |
| 5.628 | 8.306 | 5339 | 0.005 | - C1 | 176745.2500 | 0.0000 |
| 5.837 | 8.306 | 530 | 4.994E-4 | - C1 | 176745.2500 | 0.0000 |
| 5.903 | 8.306 | 232 | 2.188E-4 | - C1 | 176745.2500 | 0.0000 |
| 6.148 | 8.306 | 1297 | 0.001 | - C1 | 176745.2500 | 0.0000 |
| 6.232 | 8.306 | 825 | 7.776E-4 | - C1 | 176745.2500 | 0.0000 |
| 6.312 | 8.306 | 1400 | 0.001 | - C1 | 176745.2500 | 0.0000 |
| 6.392 | 8.306 | 6133 | 0.006 | - C1 | 176745.2500 | 0.0000 |
| 6.566 | 8.306 | 6284 | 0.006 | - C1 | 176745.2500 | 0.0000 |
| 6.766 | 8.306 | 8756 | 0.008 | - C1 | 176745.2500 | 0.0000 |
| 7.032 | 8.306 | 1563 | 0.001 | - C1 | 176745.2500 | 0.0000 |
| 7.166 | 8.306 | 1944 | 0.002 | - C1 | 176745.2500 | 0.0000 |
| 7.659 | 8.306 | 531841 | 0.502 | - C1 | 176745.2500 | 0.0000 |
| 7.810 | 8.306 | 19595 | 0.018 | - C1 | 176745.2500 | 0.0000 |
| 7.926 | 8.306 | 17102 | 0.016 | - C1 | 176745.2500 | 0.0000 |
| 7.997 | 8.306 | 1043 | 9.838E-4 | - C1 | 176745.2500 | 0.0000 |
| 8.099 | 8.306 | 1078 | 0.001 | - C1 | 176745.2500 | 0.0000 |
| 8.179 | 8.306 | 257 | 2.428E-4 | - C1 | 176745.2500 | 0.0000 |
| 8.241 | 8.306 | 1135 | 0.001 | - C1 | 176745.2500 | 0.0000 |
| 8.330 | 8.306 | 2260 | 0.002 | - C1 | 176745.2500 | 0.0000 |
| 8.703 | 8.306 | 5463 | 0.005 | - C1 | 176745.2500 | 0.0000 |
| 9.454 | 8.306 | 156023 | 0.147 | - C1 | 176745.2500 | 0.0000 |
| 9.619 | 8.306 | 7136 | 0.007 | - C1 | 176745.2500 | 0.0000 |
| 9.921 | 8.306 | 1290 | 0.001 | - C1 | 176745.2500 | 0.0000 |
| 10.023 | 8.306 | 511 | 4.820E-4 | - C1 | 176745.2500 | 0.0000 |
| 11.766 | 8.306 | 1034 | 9.754E-4 | - C1 | 176745.2500 | 0.0000 |
| 16.214 | 16.287 | 7344499 | 8.221 | n-OCTACOSANE | 148898.0156 | 0.0000 |
| 17.161 | 17.233 | 6974830 | 7.338 | TRIACONTANE | 158425.2031 | 0.0000 |

Totals

| | | |
|-------------|-----------|--------|
| Unknowns | 421089952 | N/A |
| Quantified | 15749093 | 16.907 |
| Grand Total | 436839040 | 16.907 |

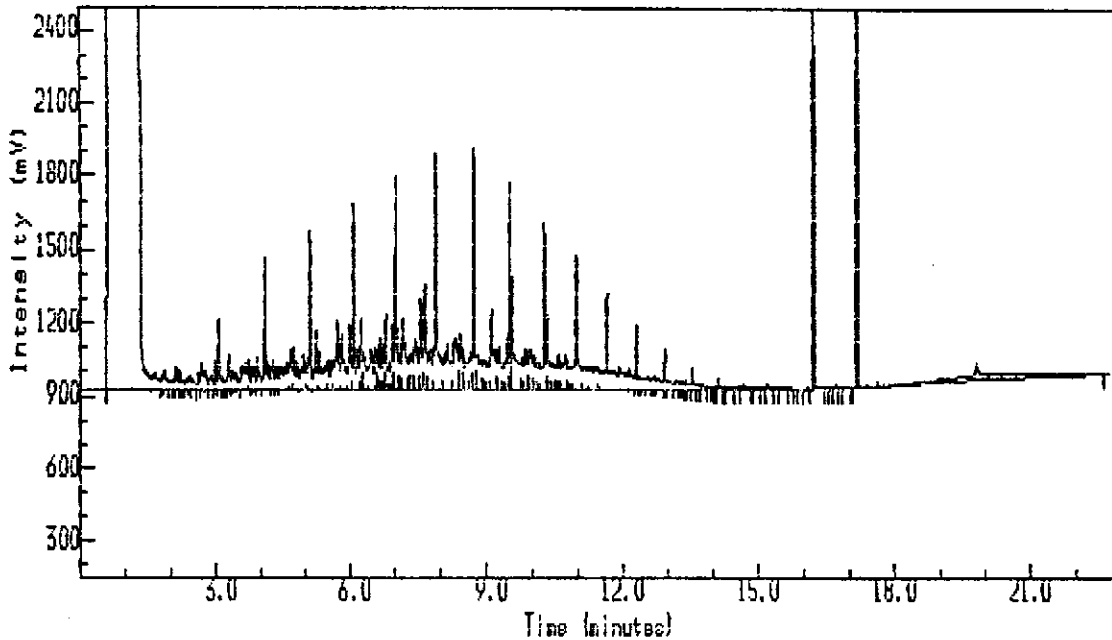
ANALYSIS SUMMARY

Method..... DRO
Run sequence..... DRO
Calibration..... DRO0397
External standard calibration using area
Calibration last modified on 31-JUL-1997 at 13:47

Uncalibrated peaks use user factor (0.0000)

Injection Report

Acquired on 2-SEP-1997 at 20:11



Intertek Testing Services - Environmental Laboratories

Analyst Name : VHLOGAN
 Lims Id :
 Comment : TPH BY 8015
 Method Title : TPH BY METHOD 8015 mod
 Sample Name : BS 30/5 AC193-83
 Sample Id :
 Sample Type : Sample Amount=2.00000
 Bottle No : 22

*TPH 68.9 mg/kg
 Sum 80.7%*

PEAK INFORMATION

| RT mins | RT Exp | Area uVs | Mg/L-Mg/Kg | Peak name | RF slope | RF intercept |
|---------|--------|----------|------------|---------------|-------------|--------------|
| | 8.306 | 73114960 | 68.946 | TPH AS DIESEL | 176745.2500 | 0.0000 |
| 2.770 | 8.306 | 299554 | 0.282 | - C1 | 176745.2500 | 0.0000 |
| 2.899 | 8.306 | 311851 | 0.294 | - C1 | 176745.2500 | 0.0000 |
| 2.979 | 8.306 | 261008 | 0.246 | - C1 | 176745.2500 | 0.0000 |
| 3.059 | 8.306 | 607093 | 0.572 | - C1 | 176745.2500 | 0.0000 |
| 3.152 | 8.306 | 113949 | 0.107 | - C1 | 176745.2500 | 0.0000 |
| 3.201 | 8.306 | 106489 | 0.100 | - C1 | 176745.2500 | 0.0000 |
| 3.290 | 8.306 | 444070 | 0.419 | - C1 | 176745.2500 | 0.0000 |
| 3.366 | 8.306 | 199804 | 0.188 | - C1 | 176745.2500 | 0.0000 |
| 3.410 | 8.306 | 157759 | 0.149 | - C1 | 176745.2500 | 0.0000 |
| 3.454 | 8.306 | 240367 | 0.227 | - C1 | 176745.2500 | 0.0000 |
| 3.583 | 8.306 | 394032 | 0.372 | - C1 | 176745.2500 | 0.0000 |
| 3.650 | 8.306 | 343038 | 0.323 | - C1 | 176745.2500 | 0.0000 |

vtz 9-3-97

| RT mins | RT Exp | Area uVs | Mg/L-Mg/Kg | Peak name | RF slope | RF intercept |
|---------|--------|----------|------------|-----------|-------------|--------------|
| 3.721 | 8.306 | 282933 | 0.267 | - C1 | 176745.2500 | 0.0000 |
| 3.788 | 8.306 | 203095 | 0.192 | - C1 | 176745.2500 | 0.0000 |
| 3.854 | 8.306 | 305492 | 0.288 | - C1 | 176745.2500 | 0.0000 |
| 3.921 | 8.306 | 466491 | 0.440 | - C1 | 176745.2500 | 0.0000 |
| 4.090 | 8.306 | 1141372 | 1.076 | - C1 | 176745.2500 | 0.0000 |
| 4.170 | 8.306 | 240741 | 0.227 | - C1 | 176745.2500 | 0.0000 |
| 4.277 | 8.306 | 444189 | 0.419 | - C1 | 176745.2500 | 0.0000 |
| 4.334 | 8.306 | 359977 | 0.339 | - C1 | 176745.2500 | 0.0000 |
| 4.432 | 8.306 | 428197 | 0.404 | - C1 | 176745.2500 | 0.0000 |
| 4.606 | 8.306 | 653452 | 0.616 | - C1 | 176745.2500 | 0.0000 |
| 4.694 | 8.306 | 652951 | 0.616 | - C1 | 176745.2500 | 0.0000 |
| 4.748 | 8.306 | 427629 | 0.403 | - C1 | 176745.2500 | 0.0000 |
| 4.814 | 8.306 | 322628 | 0.304 | - C1 | 176745.2500 | 0.0000 |
| 4.966 | 8.306 | 699658 | 0.660 | - C1 | 176745.2500 | 0.0000 |
| 5.019 | 8.306 | 253413 | 0.239 | - C1 | 176745.2500 | 0.0000 |
| 5.112 | 8.306 | 1373662 | 1.295 | - C1 | 176745.2500 | 0.0000 |
| 5.250 | 8.306 | 760085 | 0.717 | - C1 | 176745.2500 | 0.0000 |
| 5.330 | 8.306 | 631410 | 0.595 | - C1 | 176745.2500 | 0.0000 |
| 5.481 | 8.306 | 459270 | 0.433 | - C1 | 176745.2500 | 0.0000 |
| 5.517 | 8.306 | 331961 | 0.313 | - C1 | 176745.2500 | 0.0000 |
| 5.583 | 8.306 | 262773 | 0.248 | - C1 | 176745.2500 | 0.0000 |
| 5.730 | 8.306 | 1370784 | 1.293 | - C1 | 176745.2500 | 0.0000 |
| 5.828 | 8.306 | 1099140 | 1.036 | - C1 | 176745.2500 | 0.0000 |
| 6.001 | 8.306 | 1059632 | 0.999 | - C1 | 176745.2500 | 0.0000 |
| 6.090 | 8.306 | 1275322 | 1.203 | - C1 | 176745.2500 | 0.0000 |
| 6.166 | 8.306 | 516968 | 0.487 | - C1 | 176745.2500 | 0.0000 |
| 6.246 | 8.306 | 816462 | 0.770 | - C1 | 176745.2500 | 0.0000 |
| 6.317 | 8.306 | 609268 | 0.575 | - C1 | 176745.2500 | 0.0000 |
| 6.486 | 8.306 | 966737 | 0.912 | - C1 | 176745.2500 | 0.0000 |
| 6.588 | 8.306 | 595581 | 0.562 | - C1 | 176745.2500 | 0.0000 |
| 6.632 | 8.306 | 379619 | 0.358 | - C1 | 176745.2500 | 0.0000 |
| 6.681 | 8.306 | 511172 | 0.482 | - C1 | 176745.2500 | 0.0000 |
| 6.748 | 8.306 | 489543 | 0.462 | - C1 | 176745.2500 | 0.0000 |
| 6.801 | 8.306 | 761113 | 0.718 | - C1 | 176745.2500 | 0.0000 |
| 6.881 | 8.306 | 271955 | 0.256 | - C1 | 176745.2500 | 0.0000 |
| 6.930 | 8.306 | 718663 | 0.678 | - C1 | 176745.2500 | 0.0000 |
| 7.014 | 8.306 | 1896823 | 1.789 | - C1 | 176745.2500 | 0.0000 |
| 7.099 | 8.306 | 407459 | 0.384 | - C1 | 176745.2500 | 0.0000 |
| 7.166 | 8.306 | 1501305 | 1.416 | - C1 | 176745.2500 | 0.0000 |
| 7.303 | 8.306 | 349193 | 0.329 | - C1 | 176745.2500 | 0.0000 |
| 7.370 | 8.306 | 612999 | 0.578 | - C1 | 176745.2500 | 0.0000 |
| 7.441 | 8.306 | 1037307 | 0.978 | - C1 | 176745.2500 | 0.0000 |
| 7.566 | 8.306 | 1120104 | 1.056 | - C1 | 176745.2500 | 0.0000 |
| 7.659 | 8.306 | 1363113 | 1.285 | - C1 | 176745.2500 | 0.0000 |
| 7.748 | 8.306 | 740711 | 0.698 | - C1 | 176745.2500 | 0.0000 |
| 7.890 | 8.306 | 2935303 | 2.768 | - C1 | 176745.2500 | 0.0000 |
| 8.134 | 8.306 | 1536044 | 1.448 | - C1 | 176745.2500 | 0.0000 |
| 8.317 | 8.306 | 1497331 | 1.412 | - C1 | 176745.2500 | 0.0000 |
| 8.419 | 8.306 | 722871 | 0.682 | - C1 | 176745.2500 | 0.0000 |
| 8.477 | 8.306 | 406277 | 0.383 | - C1 | 176745.2500 | 0.0000 |
| 8.552 | 8.306 | 513199 | 0.484 | - C1 | 176745.2500 | 0.0000 |
| 8.659 | 8.306 | 698073 | 0.658 | - C1 | 176745.2500 | 0.0000 |
| 8.717 | 8.306 | 1833804 | 1.729 | - C1 | 176745.2500 | 0.0000 |

| RT mins | RT Exp | Area uVs | Mg/L-Mg/Kg | Peak name | RF slope | RF intercept |
|---------|--------|----------|------------|-----------|-------------|--------------|
| 8.806 | 8.306 | 864917 | 0.816 | - C1 | 176745.2500 | 0.0000 |
| 8.890 | 8.306 | 262101 | 0.247 | - C1 | 176745.2500 | 0.0000 |
| 8.948 | 8.306 | 488670 | 0.461 | - C1 | 176745.2500 | 0.0000 |
| 9.006 | 8.306 | 456801 | 0.431 | - C1 | 176745.2500 | 0.0000 |
| 9.108 | 8.306 | 1523716 | 1.437 | - C1 | 176745.2500 | 0.0000 |
| 9.219 | 8.306 | 397231 | 0.375 | - C1 | 176745.2500 | 0.0000 |
| 9.281 | 8.306 | 582245 | 0.549 | - C1 | 176745.2500 | 0.0000 |
| 9.348 | 8.306 | 327480 | 0.309 | - C1 | 176745.2500 | 0.0000 |
| 9.450 | 8.306 | 737344 | 0.695 | - C1 | 176745.2500 | 0.0000 |
| 9.503 | 8.306 | 1415436 | 1.335 | - C1 | 176745.2500 | 0.0000 |
| 9.552 | 8.306 | 2014016 | 1.899 | - C1 | 176745.2500 | 0.0000 |
| 9.774 | 8.306 | 457363 | 0.431 | - C1 | 176745.2500 | 0.0000 |
| 9.841 | 8.306 | 606050 | 0.571 | - C1 | 176745.2500 | 0.0000 |
| 9.899 | 8.306 | 358621 | 0.338 | - C1 | 176745.2500 | 0.0000 |
| 9.983 | 8.306 | 799829 | 0.754 | - C1 | 176745.2500 | 0.0000 |
| 10.041 | 8.306 | 515939 | 0.487 | - C1 | 176745.2500 | 0.0000 |
| 10.130 | 8.306 | 445846 | 0.420 | - C1 | 176745.2500 | 0.0000 |
| 10.254 | 8.306 | 1496780 | 1.411 | - C1 | 176745.2500 | 0.0000 |
| 10.326 | 8.306 | 993334 | 0.937 | - C1 | 176745.2500 | 0.0000 |
| 10.423 | 8.306 | 568040 | 0.536 | - C1 | 176745.2500 | 0.0000 |
| 10.508 | 8.306 | 246856 | 0.233 | - C1 | 176745.2500 | 0.0000 |
| 10.561 | 8.306 | 544182 | 0.513 | - C1 | 176745.2500 | 0.0000 |
| 10.708 | 8.306 | 875949 | 0.826 | - C1 | 176745.2500 | 0.0000 |
| 10.770 | 8.306 | 349032 | 0.329 | - C1 | 176745.2500 | 0.0000 |
| 10.846 | 8.306 | 305240 | 0.288 | - C1 | 176745.2500 | 0.0000 |
| 10.966 | 8.306 | 1869993 | 1.763 | - C1 | 176745.2500 | 0.0000 |
| 11.121 | 8.306 | 690989 | 0.652 | - C1 | 176745.2500 | 0.0000 |
| 11.254 | 8.306 | 586299 | 0.553 | - C1 | 176745.2500 | 0.0000 |
| 11.401 | 8.306 | 468896 | 0.442 | - C1 | 176745.2500 | 0.0000 |
| 11.459 | 8.306 | 261952 | 0.247 | - C1 | 176745.2500 | 0.0000 |
| 11.534 | 8.306 | 409948 | 0.387 | - C1 | 176745.2500 | 0.0000 |
| 11.650 | 8.306 | 848105 | 0.800 | - C1 | 176745.2500 | 0.0000 |
| 11.734 | 8.306 | 332861 | 0.314 | - C1 | 176745.2500 | 0.0000 |
| 11.792 | 8.306 | 394851 | 0.372 | - C1 | 176745.2500 | 0.0000 |
| 11.908 | 8.306 | 542097 | 0.511 | - C1 | 176745.2500 | 0.0000 |
| 12.063 | 8.306 | 330933 | 0.312 | - C1 | 176745.2500 | 0.0000 |
| 12.134 | 8.306 | 529909 | 0.500 | - C1 | 176745.2500 | 0.0000 |
| 12.303 | 8.306 | 540420 | 0.510 | - C1 | 176745.2500 | 0.0000 |
| 12.361 | 8.306 | 140063 | 0.132 | - C1 | 176745.2500 | 0.0000 |
| 12.432 | 8.306 | 252264 | 0.238 | - C1 | 176745.2500 | 0.0000 |
| 12.552 | 8.306 | 321126 | 0.303 | - C1 | 176745.2500 | 0.0000 |
| 12.623 | 8.306 | 159777 | 0.151 | - C1 | 176745.2500 | 0.0000 |
| 12.699 | 8.306 | 133699 | 0.126 | - C1 | 176745.2500 | 0.0000 |
| 12.757 | 8.306 | 334903 | 0.316 | - C1 | 176745.2500 | 0.0000 |
| 12.926 | 8.306 | 324486 | 0.306 | - C1 | 176745.2500 | 0.0000 |
| 13.006 | 8.306 | 224703 | 0.212 | - C1 | 176745.2500 | 0.0000 |
| 13.152 | 8.306 | 170512 | 0.161 | - C1 | 176745.2500 | 0.0000 |
| 13.237 | 8.306 | 105491 | 0.099 | - C1 | 176745.2500 | 0.0000 |
| 13.308 | 8.306 | 70733 | 0.067 | - C1 | 176745.2500 | 0.0000 |
| 13.366 | 8.306 | 83917 | 0.079 | - C1 | 176745.2500 | 0.0000 |
| 13.419 | 8.306 | 93401 | 0.088 | - C1 | 176745.2500 | 0.0000 |
| 13.526 | 8.306 | 205557 | 0.194 | - C1 | 176745.2500 | 0.0000 |
| 13.632 | 8.306 | 94129 | 0.089 | - C1 | 176745.2500 | 0.0000 |

| RT mins | RT Exp | Area uVs | Mg/L-Mg/Kg | Peak name | RF slope | RF intercept |
|---------|--------|----------|------------|--------------|-------------|--------------|
| 13.739 | 8.306 | 100044 | 0.094 | - C1 | 176745.2500 | 0.0000 |
| 13.890 | 8.306 | 65617 | 0.062 | - C1 | 176745.2500 | 0.0000 |
| 16.214 | 16.287 | 6820485 | 7.634 | n-OCTACOSANE | 148898.0156 | 0.0000 |
| 17.161 | 17.233 | 6385092 | 6.717 | TRIACONTANE | 158425.2031 | 0.0000 |

| Totals | | |
|-------------|-----------|--------|
| Unknowns | 396349504 | N/A |
| Quantified | 86320536 | 83.297 |
| Grand Total | 482670048 | 83.297 |

ANALYSIS SUMMARY

Method..... DRO
Run sequence..... DRO
Calibration..... DR00397
External standard calibration using area
Calibration last modified on 31-JUL-1997 at 13:47

Uncalibrated peaks use user factor (0.0000)



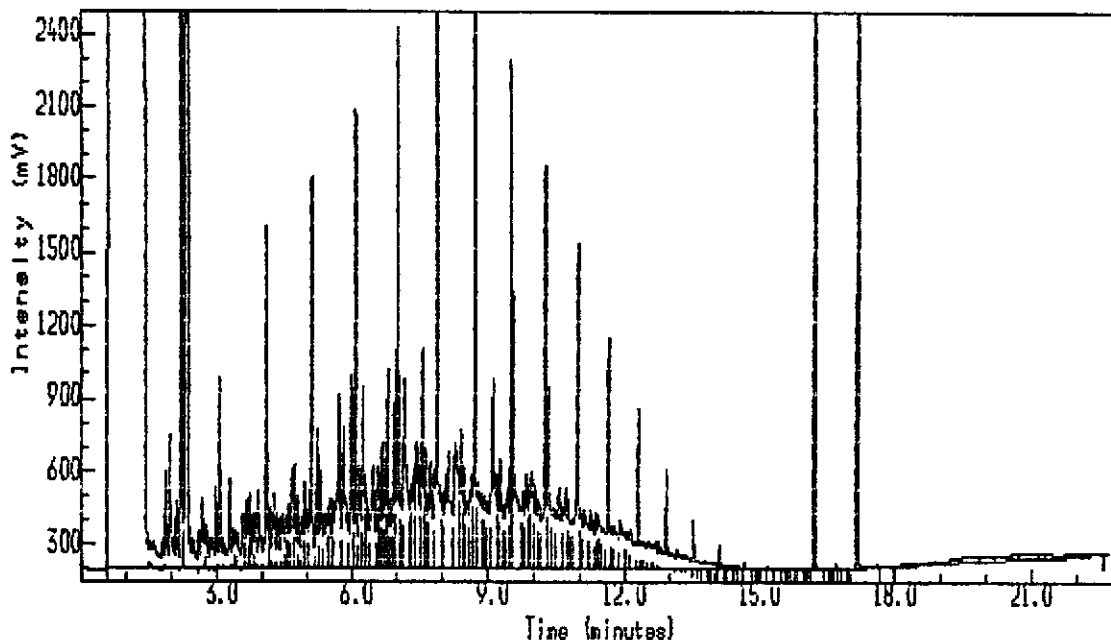
Intertek Testing Services
Environmental Laboratories

CALIBRATION DATA

Intertek Testing Services NA Inc.
1089 East Collins Boulevard Richardson, TX 75081
Telephone (972) 238-5591 Fax (972) 238-5592

Injection Report

Acquired on 2-SEP-1997 at 19:10



Intertek Testing Services - Environmental Laboratories

Analyst Name : VHLOGAN
 Lims Id :
 Comment : TPH BY B015
 Method Title : TPH BY METHOD B015 mod
 Sample Name : 1000 UG/ML DIESEL STD.
 Sample Id :
 Sample Type : Sample Amount=2.00000
 Bottle No : 7

PEAK INFORMATION

| RT mins | RT Exp | Area uVs | Mg/L-Mg/Kg | Peak name | RF slope | RF intercept |
|---------|--------|-----------|------------|--------------------|-------------|--------------|
| | 8.306 | 179236480 | 1014.095 | TPH AS DIESEL 101% | 176745.2500 | 0.0000 |
| 2.774 | 8.306 | 700437 | 3.963 | - C1 | 176745.2500 | 0.0000 |
| 2.903 | 8.306 | 741151 | 4.193 | - C1 | 176745.2500 | 0.0000 |
| 2.983 | 8.306 | 653184 | 3.696 | - C1 | 176745.2500 | 0.0000 |
| 3.063 | 8.306 | 1518591 | 8.592 | - C1 | 176745.2500 | 0.0000 |
| 3.157 | 8.306 | 270801 | 1.532 | - C1 | 176745.2500 | 0.0000 |
| 3.206 | 8.306 | 223947 | 1.267 | - C1 | 176745.2500 | 0.0000 |
| 3.294 | 8.306 | 1115542 | 6.312 | - C1 | 176745.2500 | 0.0000 |
| 3.370 | 8.306 | 441569 | 2.498 | - C1 | 176745.2500 | 0.0000 |
| 3.414 | 8.306 | 419588 | 2.374 | - C1 | 176745.2500 | 0.0000 |
| 3.459 | 8.306 | 555856 | 3.145 | - C1 | 176745.2500 | 0.0000 |
| 3.592 | 8.306 | 1041373 | 5.892 | - C1 | 176745.2500 | 0.0000 |
| 3.650 | 8.306 | 829974 | 4.696 | - C1 | 176745.2500 | 0.0000 |

with 9-3-97

| RT mins | RT Exp | Area uVs | Mg/L-Mg/Kg | Peak name | RF slope | RF intercept |
|---------|--------|----------|------------|-----------|-------------|--------------|
| 3.726 | 8.306 | 671390 | 3.799 | - C1 | 176745.2500 | 0.0000 |
| 3.788 | 8.306 | 476802 | 2.698 | - C1 | 176745.2500 | 0.0000 |
| 3.854 | 8.306 | 762454 | 4.314 | - C1 | 176745.2500 | 0.0000 |
| 3.921 | 8.306 | 1151693 | 6.516 | - C1 | 176745.2500 | 0.0000 |
| 4.094 | 8.306 | 2867814 | 16.226 | - C1 | 176745.2500 | 0.0000 |
| 4.174 | 8.306 | 547338 | 3.097 | - C1 | 176745.2500 | 0.0000 |
| 4.277 | 8.306 | 1119657 | 6.335 | - C1 | 176745.2500 | 0.0000 |
| 4.339 | 8.306 | 855659 | 4.841 | - C1 | 176745.2500 | 0.0000 |
| 4.463 | 8.306 | 992140 | 5.613 | - C1 | 176745.2500 | 0.0000 |
| 4.539 | 8.306 | 596658 | 3.376 | - C1 | 176745.2500 | 0.0000 |
| 4.606 | 8.306 | 1048185 | 5.930 | - C1 | 176745.2500 | 0.0000 |
| 4.694 | 8.306 | 1607348 | 9.094 | - C1 | 176745.2500 | 0.0000 |
| 4.752 | 8.306 | 1059152 | 5.993 | - C1 | 176745.2500 | 0.0000 |
| 4.819 | 8.306 | 806754 | 4.565 | - C1 | 176745.2500 | 0.0000 |
| 4.912 | 8.306 | 858420 | 4.857 | - C1 | 176745.2500 | 0.0000 |
| 4.966 | 8.306 | 1442840 | 8.163 | - C1 | 176745.2500 | 0.0000 |
| 5.117 | 8.306 | 3396612 | 19.218 | - C1 | 176745.2500 | 0.0000 |
| 5.254 | 8.306 | 1846890 | 10.449 | - C1 | 176745.2500 | 0.0000 |
| 5.330 | 8.306 | 1190312 | 6.735 | - C1 | 176745.2500 | 0.0000 |
| 5.481 | 8.306 | 1505631 | 8.519 | - C1 | 176745.2500 | 0.0000 |
| 5.521 | 8.306 | 826055 | 4.674 | - C1 | 176745.2500 | 0.0000 |
| 5.583 | 8.306 | 656311 | 3.713 | - C1 | 176745.2500 | 0.0000 |
| 5.730 | 8.306 | 3430779 | 19.411 | - C1 | 176745.2500 | 0.0000 |
| 5.832 | 8.306 | 2719538 | 15.387 | - C1 | 176745.2500 | 0.0000 |
| 6.001 | 8.306 | 2704345 | 15.301 | - C1 | 176745.2500 | 0.0000 |
| 6.090 | 8.306 | 3133651 | 17.730 | - C1 | 176745.2500 | 0.0000 |
| 6.161 | 8.306 | 1328034 | 7.514 | - C1 | 176745.2500 | 0.0000 |
| 6.246 | 8.306 | 2113562 | 11.958 | - C1 | 176745.2500 | 0.0000 |
| 6.317 | 8.306 | 1434820 | 8.118 | - C1 | 176745.2500 | 0.0000 |
| 6.486 | 8.306 | 2407357 | 13.620 | - C1 | 176745.2500 | 0.0000 |
| 6.588 | 8.306 | 1454514 | 8.229 | - C1 | 176745.2500 | 0.0000 |
| 6.632 | 8.306 | 1010915 | 5.720 | - C1 | 176745.2500 | 0.0000 |
| 6.686 | 8.306 | 1271354 | 7.193 | - C1 | 176745.2500 | 0.0000 |
| 6.748 | 8.306 | 1125517 | 6.368 | - C1 | 176745.2500 | 0.0000 |
| 6.806 | 8.306 | 1911057 | 10.812 | - C1 | 176745.2500 | 0.0000 |
| 6.881 | 8.306 | 711995 | 4.028 | - C1 | 176745.2500 | 0.0000 |
| 6.934 | 8.306 | 1672577 | 9.463 | - C1 | 176745.2500 | 0.0000 |
| 7.019 | 8.306 | 4821094 | 27.277 | - C1 | 176745.2500 | 0.0000 |
| 7.103 | 8.306 | 989189 | 5.597 | - C1 | 176745.2500 | 0.0000 |
| 7.161 | 8.306 | 3748613 | 21.209 | - C1 | 176745.2500 | 0.0000 |
| 7.308 | 8.306 | 867317 | 4.907 | - C1 | 176745.2500 | 0.0000 |
| 7.370 | 8.306 | 1535144 | 8.686 | - C1 | 176745.2500 | 0.0000 |
| 7.441 | 8.306 | 2584393 | 14.622 | - C1 | 176745.2500 | 0.0000 |
| 7.570 | 8.306 | 2837335 | 16.053 | - C1 | 176745.2500 | 0.0000 |
| 7.637 | 8.306 | 1318219 | 7.458 | - C1 | 176745.2500 | 0.0000 |
| 7.694 | 8.306 | 884045 | 5.002 | - C1 | 176745.2500 | 0.0000 |
| 7.748 | 8.306 | 1797316 | 10.169 | - C1 | 176745.2500 | 0.0000 |
| 7.890 | 8.306 | 6454606 | 36.519 | - C1 | 176745.2500 | 0.0000 |
| 8.010 | 8.306 | 862298 | 4.879 | - C1 | 176745.2500 | 0.0000 |
| 8.134 | 8.306 | 3755086 | 21.246 | - C1 | 176745.2500 | 0.0000 |
| 8.299 | 8.306 | 3762624 | 21.288 | - C1 | 176745.2500 | 0.0000 |
| 8.423 | 8.306 | 1800126 | 10.185 | - C1 | 176745.2500 | 0.0000 |
| 8.481 | 8.306 | 1007914 | 5.703 | - C1 | 176745.2500 | 0.0000 |

| RT mins | RT Exp | Area uVs | Mg/L-Mg/Kg | Peak name | RF slope | RF intercept |
|---------|--------|----------|------------|-----------|-------------|--------------|
| 8.566 | 8.306 | 1288140 | 7.288 | - C1 | 176745.2500 | 0.0000 |
| 8.659 | 8.306 | 1818482 | 10.289 | - C1 | 176745.2500 | 0.0000 |
| 8.721 | 8.306 | 4449057 | 25.172 | - C1 | 176745.2500 | 0.0000 |
| 8.783 | 8.306 | 2148851 | 12.158 | - C1 | 176745.2500 | 0.0000 |
| 8.890 | 8.306 | 658576 | 3.726 | - C1 | 176745.2500 | 0.0000 |
| 8.948 | 8.306 | 1213637 | 6.867 | - C1 | 176745.2500 | 0.0000 |
| 9.006 | 8.306 | 1202472 | 6.803 | - C1 | 176745.2500 | 0.0000 |
| 9.112 | 8.306 | 3697896 | 20.922 | - C1 | 176745.2500 | 0.0000 |
| 9.223 | 8.306 | 988864 | 5.595 | - C1 | 176745.2500 | 0.0000 |
| 9.281 | 8.306 | 1441682 | 8.157 | - C1 | 176745.2500 | 0.0000 |
| 9.348 | 8.306 | 810594 | 4.586 | - C1 | 176745.2500 | 0.0000 |
| 9.441 | 8.306 | 1506846 | 8.526 | - C1 | 176745.2500 | 0.0000 |
| 9.508 | 8.306 | 3637245 | 20.579 | - C1 | 176745.2500 | 0.0000 |
| 9.552 | 8.306 | 4832371 | 27.341 | - C1 | 176745.2500 | 0.0000 |
| 9.774 | 8.306 | 1135096 | 6.422 | - C1 | 176745.2500 | 0.0000 |
| 9.846 | 8.306 | 1559185 | 8.822 | - C1 | 176745.2500 | 0.0000 |
| 9.903 | 8.306 | 804366 | 4.551 | - C1 | 176745.2500 | 0.0000 |
| 9.983 | 8.306 | 1972608 | 11.161 | - C1 | 176745.2500 | 0.0000 |
| 10.046 | 8.306 | 1143584 | 6.470 | - C1 | 176745.2500 | 0.0000 |
| 10.108 | 8.306 | 1236015 | 6.993 | - C1 | 176745.2500 | 0.0000 |
| 10.259 | 8.306 | 3671677 | 20.774 | - C1 | 176745.2500 | 0.0000 |
| 10.326 | 8.306 | 2383106 | 13.483 | - C1 | 176745.2500 | 0.0000 |
| 10.432 | 8.306 | 1464529 | 8.286 | - C1 | 176745.2500 | 0.0000 |
| 10.561 | 8.306 | 1933134 | 10.937 | - C1 | 176745.2500 | 0.0000 |
| 10.708 | 8.306 | 2100660 | 11.885 | - C1 | 176745.2500 | 0.0000 |
| 10.770 | 8.306 | 801739 | 4.536 | - C1 | 176745.2500 | 0.0000 |
| 10.850 | 8.306 | 795696 | 4.502 | - C1 | 176745.2500 | 0.0000 |
| 10.970 | 8.306 | 3752762 | 21.233 | - C1 | 176745.2500 | 0.0000 |
| 11.037 | 8.306 | 923383 | 5.224 | - C1 | 176745.2500 | 0.0000 |
| 11.112 | 8.306 | 1310207 | 7.413 | - C1 | 176745.2500 | 0.0000 |
| 11.210 | 8.306 | 486435 | 2.752 | - C1 | 176745.2500 | 0.0000 |
| 11.254 | 8.306 | 1380090 | 7.808 | - C1 | 176745.2500 | 0.0000 |
| 11.366 | 8.306 | 593299 | 3.357 | - C1 | 176745.2500 | 0.0000 |
| 11.406 | 8.306 | 576843 | 3.264 | - C1 | 176745.2500 | 0.0000 |
| 11.459 | 8.306 | 635186 | 3.594 | - C1 | 176745.2500 | 0.0000 |
| 11.526 | 8.306 | 950758 | 5.379 | - C1 | 176745.2500 | 0.0000 |
| 11.650 | 8.306 | 2121628 | 12.004 | - C1 | 176745.2500 | 0.0000 |
| 11.712 | 8.306 | 680154 | 3.848 | - C1 | 176745.2500 | 0.0000 |
| 11.779 | 8.306 | 1049571 | 5.938 | - C1 | 176745.2500 | 0.0000 |
| 11.903 | 8.306 | 1417165 | 8.018 | - C1 | 176745.2500 | 0.0000 |
| 12.028 | 8.306 | 754612 | 4.269 | - C1 | 176745.2500 | 0.0000 |
| 12.126 | 8.306 | 1192848 | 6.749 | - C1 | 176745.2500 | 0.0000 |
| 12.303 | 8.306 | 1358860 | 7.688 | - C1 | 176745.2500 | 0.0000 |
| 12.361 | 8.306 | 343269 | 1.942 | - C1 | 176745.2500 | 0.0000 |
| 12.414 | 8.306 | 628572 | 3.556 | - C1 | 176745.2500 | 0.0000 |
| 12.512 | 8.306 | 755207 | 4.273 | - C1 | 176745.2500 | 0.0000 |
| 12.628 | 8.306 | 275331 | 1.558 | - C1 | 176745.2500 | 0.0000 |
| 12.699 | 8.306 | 481292 | 2.723 | - C1 | 176745.2500 | 0.0000 |
| 12.757 | 8.306 | 820027 | 4.640 | - C1 | 176745.2500 | 0.0000 |
| 12.930 | 8.306 | 787350 | 4.455 | - C1 | 176745.2500 | 0.0000 |
| 13.006 | 8.306 | 594301 | 3.362 | - C1 | 176745.2500 | 0.0000 |
| 13.152 | 8.306 | 590830 | 3.343 | - C1 | 176745.2500 | 0.0000 |
| 13.312 | 8.306 | 239867 | 1.357 | - C1 | 176745.2500 | 0.0000 |

| RT mins | RT Exp | Area uVs | Mq/L-Mq/Kg | Peak name | RF slope | RF intercept |
|---------|--------|----------|------------|--------------|-------------|--------------|
| 13.366 | 8.306 | 442431 | 2.503 | - CI | 176745.2500 | 0.0000 |
| 13.530 | 8.306 | 508110 | 2.875 | - CI | 176745.2500 | 0.0000 |
| 13.628 | 8.306 | 236055 | 1.336 | - CI | 176745.2500 | 0.0000 |
| 13.739 | 8.306 | 266127 | 1.506 | - CI | 176745.2500 | 0.0000 |
| 13.894 | 8.306 | 134342 | 0.760 | - CI | 176745.2500 | 0.0000 |
| 16.219 | 16.287 | 8171751 | 54.882 | n-OCTACOSANE | 148898.0156 | 0.0000 |
| 17.166 | 17.233 | 7341938 | 46.343 | TRIACONTANE | 158425.2031 | 0.0000 |

101.8%
92.6%

| Totals | | |
|-------------|-----------|----------|
| Unknowns | 480414784 | N/A |
| Quantified | 194750160 | 1115.320 |
| Grand Total | 675164928 | 1115.320 |

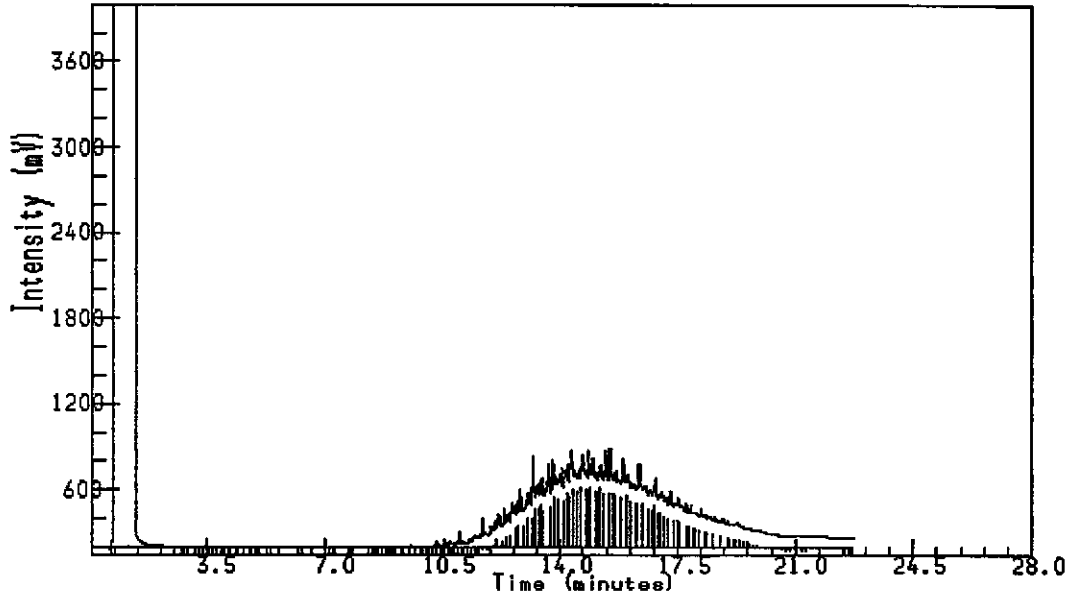
ANALYSIS SUMMARY

Method..... DRO
 Run sequence..... DRO
 Calibration..... DRO0397
 External standard calibration using area
 Calibration last modified on 31-JUL-1997 at 13:47

Uncalibrated peaks use user factor (0.0000)

Injectio

Acquired on 3-SEP-1997 at 09:00



Intertek Testing Services - Environmental Laboratories

Analyst Name : VHLOGAN
 Lims Id :
 Comment : TPH BY 8015
 Method Title : TPH BY METHOD 8015 mod
 Sample Name : 1000 UG/ML MOTOR OIL STD. AC018-58-1
 Sample Id :
 Sample Type : Sample Amount=2.00000
 Bottle No : 3

PEAK INFORMATION

| RT mins | RT Corr | RT Exp | Hght uV | Area uVs | Mq/L-Mq/Kg | Peak name | RF slope | RF intercept |
|---------|---------|--------|----------|-----------|------------|----------------|-------------|--------------|
| | | 15.630 | 30037532 | 189946064 | 1044.252 | MOTOR OIL 104% | 181896.6875 | 0.0000 |
| 9.792 | 9.792 | 15.630 | 4319 | 28297 | 0.156 | - C1 | 181896.6875 | 0.0000 |
| 9.859 | 9.859 | 15.630 | 7068 | 21784 | 0.120 | - C1 | 181896.6875 | 0.0000 |
| 9.961 | 9.961 | 15.630 | 9603 | 60005 | 0.330 | - C1 | 181896.6875 | 0.0000 |
| 10.054 | 10.054 | 15.630 | 8377 | 22673 | 0.125 | - C1 | 181896.6875 | 0.0000 |
| 10.148 | 10.148 | 15.630 | 10537 | 51732 | 0.284 | - C1 | 181896.6875 | 0.0000 |
| 10.268 | 10.268 | 15.630 | 41572 | 135336 | 0.744 | - C1 | 181896.6875 | 0.0000 |
| 10.339 | 10.339 | 15.630 | 35585 | 102491 | 0.563 | - C1 | 181896.6875 | 0.0000 |
| 10.446 | 10.446 | 15.630 | 14709 | 77696 | 0.427 | - C1 | 181896.6875 | 0.0000 |
| 10.561 | 10.561 | 15.630 | 24570 | 151093 | 0.831 | - C1 | 181896.6875 | 0.0000 |
| 10.677 | 10.677 | 15.630 | 43911 | 142775 | 0.785 | - C1 | 181896.6875 | 0.0000 |
| 10.721 | 10.721 | 15.630 | 43155 | 96449 | 0.530 | - C1 | 181896.6875 | 0.0000 |

UH 9-3-97

| RT mins | RT Corr | RT Exp | Hght uV | Area uVs | Mq/L-Mq/Kg | Peak name | RF slope | RF intercept |
|---------|---------|--------|---------|----------|------------|-----------|-------------|--------------|
| 10.770 | 10.770 | 15.630 | 32743 | 108470 | 0.596 | - C1 | 181896.6875 | 0.0000 |
| 10.930 | 10.930 | 15.630 | 44962 | 271644 | 1.493 | - C1 | 181896.6875 | 0.0000 |
| 10.983 | 10.983 | 15.630 | 106403 | 255958 | 1.407 | - C1 | 181896.6875 | 0.0000 |
| 11.068 | 11.068 | 15.630 | 44941 | 187091 | 1.029 | - C1 | 181896.6875 | 0.0000 |
| 11.268 | 11.268 | 15.630 | 61180 | 669710 | 3.682 | - C1 | 181896.6875 | 0.0000 |
| 11.419 | 11.419 | 15.630 | 85334 | 372222 | 2.046 | - C1 | 181896.6875 | 0.0000 |
| 11.472 | 11.472 | 15.630 | 80816 | 286707 | 1.576 | - C1 | 181896.6875 | 0.0000 |
| 11.557 | 11.557 | 15.630 | 80599 | 376949 | 2.072 | - C1 | 181896.6875 | 0.0000 |
| 11.663 | 11.663 | 15.630 | 208332 | 710671 | 3.907 | - C1 | 181896.6875 | 0.0000 |
| 11.717 | 11.717 | 15.630 | 112161 | 505739 | 2.780 | - C1 | 181896.6875 | 0.0000 |
| 11.801 | 11.801 | 15.630 | 101398 | 332955 | 1.830 | - C1 | 181896.6875 | 0.0000 |
| 11.926 | 11.926 | 15.630 | 156692 | 1379607 | 7.585 | - C1 | 181896.6875 | 0.0000 |
| 12.077 | 12.077 | 15.630 | 188545 | 825167 | 4.536 | - C1 | 181896.6875 | 0.0000 |
| 12.139 | 12.139 | 15.630 | 236355 | 1734745 | 9.537 | - C1 | 181896.6875 | 0.0000 |
| 12.317 | 12.317 | 15.630 | 276104 | 1100442 | 6.050 | - C1 | 181896.6875 | 0.0000 |
| 12.419 | 12.419 | 15.630 | 230910 | 1459053 | 8.021 | - C1 | 181896.6875 | 0.0000 |
| 12.561 | 12.561 | 15.630 | 311133 | 2923553 | 16.073 | - C1 | 181896.6875 | 0.0000 |
| 12.712 | 12.712 | 15.630 | 321020 | 1448977 | 7.966 | - C1 | 181896.6875 | 0.0000 |
| 12.770 | 12.770 | 15.630 | 412759 | 2558675 | 14.067 | - C1 | 181896.6875 | 0.0000 |
| 12.943 | 12.943 | 15.630 | 332605 | 1835181 | 10.089 | - C1 | 181896.6875 | 0.0000 |
| 13.023 | 13.023 | 15.630 | 388223 | 2886050 | 15.866 | - C1 | 181896.6875 | 0.0000 |
| 13.166 | 13.166 | 15.630 | 639938 | 3216231 | 17.682 | - C1 | 181896.6875 | 0.0000 |
| 13.330 | 13.330 | 15.630 | 442282 | 2983629 | 16.403 | - C1 | 181896.6875 | 0.0000 |
| 13.388 | 13.388 | 15.630 | 480882 | 1479554 | 8.134 | - C1 | 181896.6875 | 0.0000 |
| 13.437 | 13.437 | 15.630 | 488998 | 1957432 | 10.761 | - C1 | 181896.6875 | 0.0000 |
| 13.646 | 13.646 | 15.630 | 586144 | 6218128 | 34.185 | - C1 | 181896.6875 | 0.0000 |
| 13.757 | 13.757 | 15.630 | 612084 | 3542955 | 19.478 | - C1 | 181896.6875 | 0.0000 |
| 13.877 | 13.877 | 15.630 | 507401 | 2261180 | 12.431 | - C1 | 181896.6875 | 0.0000 |
| 14.032 | 14.032 | 15.630 | 557686 | 5309473 | 29.189 | - C1 | 181896.6875 | 0.0000 |
| 14.166 | 14.166 | 15.630 | 549628 | 3555324 | 19.546 | - C1 | 181896.6875 | 0.0000 |
| 14.250 | 14.250 | 15.630 | 583457 | 2802025 | 15.404 | - C1 | 181896.6875 | 0.0000 |
| 14.321 | 14.321 | 15.630 | 681540 | 3902460 | 21.454 | - C1 | 181896.6875 | 0.0000 |
| 14.446 | 14.446 | 15.630 | 547952 | 2890898 | 15.893 | - C1 | 181896.6875 | 0.0000 |
| 14.503 | 14.503 | 15.630 | 519802 | 1462494 | 8.040 | - C1 | 181896.6875 | 0.0000 |
| 14.566 | 14.566 | 15.630 | 546676 | 2053344 | 11.289 | - C1 | 181896.6875 | 0.0000 |
| 14.614 | 14.614 | 15.630 | 570091 | 1693735 | 9.312 | - C1 | 181896.6875 | 0.0000 |
| 14.672 | 14.672 | 15.630 | 656673 | 4388404 | 24.126 | - C1 | 181896.6875 | 0.0000 |
| 14.792 | 14.792 | 15.630 | 548572 | 2082479 | 11.449 | - C1 | 181896.6875 | 0.0000 |
| 14.863 | 14.863 | 15.630 | 685722 | 3201967 | 17.603 | - C1 | 181896.6875 | 0.0000 |
| 14.979 | 14.979 | 15.630 | 629624 | 6152448 | 33.824 | - C1 | 181896.6875 | 0.0000 |
| 15.121 | 15.121 | 15.630 | 518631 | 1473308 | 8.100 | - C1 | 181896.6875 | 0.0000 |
| 15.174 | 15.174 | 15.630 | 575301 | 1960657 | 10.779 | - C1 | 181896.6875 | 0.0000 |
| 15.232 | 15.232 | 15.630 | 579931 | 2991338 | 16.445 | - C1 | 181896.6875 | 0.0000 |
| 15.388 | 15.388 | 15.630 | 674538 | 5687804 | 31.269 | - C1 | 181896.6875 | 0.0000 |
| 15.517 | 15.517 | 15.630 | 695888 | 5061192 | 27.825 | - C1 | 181896.6875 | 0.0000 |
| 15.637 | 15.637 | 15.630 | 523342 | 2107696 | 11.587 | - C1 | 181896.6875 | 0.0000 |
| 15.708 | 15.708 | 15.630 | 540470 | 4228587 | 23.247 | - C1 | 181896.6875 | 0.0000 |
| 15.894 | 15.894 | 15.630 | 621137 | 4955231 | 27.242 | - C1 | 181896.6875 | 0.0000 |
| 16.046 | 16.046 | 15.630 | 509576 | 4664542 | 25.644 | - C1 | 181896.6875 | 0.0000 |
| 16.174 | 16.174 | 15.630 | 447835 | 3712897 | 20.412 | - C1 | 181896.6875 | 0.0000 |
| 16.379 | 16.379 | 15.630 | 584034 | 5119168 | 28.143 | - C1 | 181896.6875 | 0.0000 |
| 16.570 | 16.570 | 15.630 | 438410 | 4654203 | 25.587 | - C1 | 181896.6875 | 0.0000 |
| 16.690 | 16.690 | 15.630 | 407490 | 2679633 | 14.732 | - C1 | 181896.6875 | 0.0000 |

| RT mins | RT Corr | RT Exp | Hght uV | Area uVs | Mq/L-Mq/Kg | Peak name | RF slope | RF intercept |
|---------|---------|--------|---------|----------|------------|-----------|-------------|--------------|
| 16.792 | 16.792 | 15.630 | 426349 | 1797858 | 9.884 | - C1 | 181896.6875 | 0.0000 |
| 16.850 | 16.850 | 15.630 | 482465 | 2657453 | 14.610 | - C1 | 181896.6875 | 0.0000 |
| 16.970 | 16.970 | 15.630 | 381199 | 1825647 | 10.037 | - C1 | 181896.6875 | 0.0000 |
| 17.054 | 17.054 | 15.630 | 393597 | 2307203 | 12.684 | - C1 | 181896.6875 | 0.0000 |
| 17.179 | 17.179 | 15.630 | 352241 | 2457659 | 13.511 | - C1 | 181896.6875 | 0.0000 |
| 17.303 | 17.303 | 15.630 | 401334 | 2826390 | 15.538 | - C1 | 181896.6875 | 0.0000 |
| 17.428 | 17.428 | 15.630 | 317368 | 2208014 | 12.139 | - C1 | 181896.6875 | 0.0000 |
| 17.521 | 17.521 | 15.630 | 356616 | 1925170 | 10.584 | - C1 | 181896.6875 | 0.0000 |
| 17.628 | 17.628 | 15.630 | 300764 | 2373361 | 13.048 | - C1 | 181896.6875 | 0.0000 |
| 17.752 | 17.752 | 15.630 | 315026 | 1794279 | 9.864 | - C1 | 181896.6875 | 0.0000 |
| 17.903 | 17.903 | 15.630 | 306808 | 2087807 | 11.478 | - C1 | 181896.6875 | 0.0000 |
| 17.979 | 17.979 | 15.630 | 251407 | 1122781 | 6.173 | - C1 | 181896.6875 | 0.0000 |
| 18.050 | 18.050 | 15.630 | 250265 | 1698284 | 9.337 | - C1 | 181896.6875 | 0.0000 |
| 18.183 | 18.183 | 15.630 | 266775 | 2226411 | 12.240 | - C1 | 181896.6875 | 0.0000 |
| 18.317 | 18.317 | 15.630 | 229823 | 1289927 | 7.092 | - C1 | 181896.6875 | 0.0000 |
| 18.414 | 18.414 | 15.630 | 225271 | 2250058 | 12.370 | - C1 | 181896.6875 | 0.0000 |
| 18.601 | 18.601 | 15.630 | 221766 | 2382790 | 13.100 | - C1 | 181896.6875 | 0.0000 |
| 18.779 | 18.779 | 15.630 | 188281 | 583857 | 3.210 | - C1 | 181896.6875 | 0.0000 |
| 18.872 | 18.872 | 15.630 | 205535 | 1925983 | 10.588 | - C1 | 181896.6875 | 0.0000 |
| 19.001 | 19.001 | 15.630 | 188874 | 1146397 | 6.302 | - C1 | 181896.6875 | 0.0000 |
| 19.108 | 19.108 | 15.630 | 172853 | 882768 | 4.853 | - C1 | 181896.6875 | 0.0000 |
| 19.210 | 19.210 | 15.630 | 165969 | 735273 | 4.042 | - C1 | 181896.6875 | 0.0000 |
| 19.281 | 19.281 | 15.630 | 173048 | 1308498 | 7.194 | - C1 | 181896.6875 | 0.0000 |
| 19.401 | 19.401 | 15.630 | 157548 | 1114866 | 6.129 | - C1 | 181896.6875 | 0.0000 |
| 19.526 | 19.526 | 15.630 | 144490 | 645419 | 3.548 | - C1 | 181896.6875 | 0.0000 |
| 19.570 | 19.570 | 15.630 | 141903 | 699468 | 3.845 | - C1 | 181896.6875 | 0.0000 |
| 19.663 | 19.663 | 15.630 | 134789 | 869923 | 4.783 | - C1 | 181896.6875 | 0.0000 |
| 19.806 | 19.806 | 15.630 | 127698 | 1023131 | 5.625 | - C1 | 181896.6875 | 0.0000 |
| 19.930 | 19.930 | 15.630 | 124084 | 2418817 | 13.298 | - C1 | 181896.6875 | 0.0000 |
| 20.259 | 20.259 | 15.630 | 102025 | 509351 | 2.800 | - C1 | 181896.6875 | 0.0000 |
| 20.366 | 20.366 | 15.630 | 100590 | 1800353 | 9.898 | - C1 | 181896.6875 | 0.0000 |
| 20.641 | 20.641 | 15.630 | 88455 | 577401 | 3.174 | - C1 | 181896.6875 | 0.0000 |
| 20.762 | 20.762 | 15.630 | 85868 | 697915 | 3.837 | - C1 | 181896.6875 | 0.0000 |
| 20.894 | 20.894 | 15.630 | 83760 | 1576840 | 8.669 | - C1 | 181896.6875 | 0.0000 |
| 21.294 | 21.294 | 15.630 | 81381 | 729622 | 4.011 | - C1 | 181896.6875 | 0.0000 |
| 21.481 | 21.481 | 15.630 | 82950 | 1898766 | 10.439 | - C1 | 181896.6875 | 0.0000 |

| Totals | | | |
|-------------|----------|-----------|----------|
| Unknowns | 10242587 | 408063840 | N/A |
| Quantified | 30037532 | 189946064 | 1044.252 |
| Grand Total | 40280120 | 598009920 | 1044.252 |

ANALYSIS SUMMARY

Method..... DROXTEND
 Run sequence..... DRO
 Calibration..... MOIL3597
 External standard calibration using area
 Calibration last modified on 7-MAR-1997 at 13:05

Uncalibrated peaks use user factor (0.0000)