

UST FILE SUMMARY SHEET

All fields with an asterisk are Envision fields

*Site Name: Calhoun's Service

*Site Address: 4540 Pacific Ave.
Tacoma, WA

*Parcel # (APN): 7470024730

Database Record #:

*Current Status:

OPEN	CLOSED (date)	CONDITIONAL CLOSURE (date)
	02/01/02	

*Application for removal? (date) 2/28/91

*Permit for removal? (date/permit #) 2/28/91 #5709

Tank removal:

Date	Number of Tanks	Tank Contents	Size	Age
	2	gasoline	4000 gal	35 yrs
	1	gasoline	6000	35
	1	waste oil	200	35

Initial Tank Removal Assessment:

	YES	NO
Tank disposal receipt?	<input type="checkbox"/>	<input type="checkbox"/>
*Soil contaminated?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
*All contaminated soil removed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Groundwater encountered? Note depth bgs	<input type="checkbox"/>	<input checked="" type="checkbox"/>
*Groundwater contaminated?	<input type="checkbox"/>	<input checked="" type="checkbox"/>

UST FILE SUMMARY SHEET

Outstanding issues/reason file remains open:

- *Soil contamination remains
- *Groundwater contamination remains
- Inadequate characterization of extent of contamination (explain below)~
- Undergoing onsite remediation
- *Undergoing groundmonitor monitoring
- Report(s) due:
- Site visit due:
- Other:

~Explain deficiency: appears file was never closed after necessary info was sent via request by TPCHD

Site Information:

- offsite disposal of soil - amount , where, receipts?
- stockpiled on site - amount, properly secured? amount unknown, stored on tarp
- onsite remediation planned/ongoing – type/method? Aeration until clean test results in 4/15/93
- *residual contamination under buildings, roads, sidewalks, etc?
- *monitoring wells at site - #, location, date of installation/decommissioning?
- site inspections (date, inspector): 3/19/93 C. Wanless

Sampling Overview:

- Adequate sampling with respect to location, type, media, number of samples? yes
- Adequate analyses with respect to analytes, method, PQL? yes
- Any results above MTCA? List below.

*Sample Date	*Media	*Location/Sample ID	*Analyte/concentration

Additional comments/data collected: Permission from HD on 4/29/91 to backfill excavation pits. Contaminated stockpile was aerated on site contrary to TPCHD decision, though tested clean 4/15/93 and used as fill.

UST FILE SUMMARY SHEET

Reports:

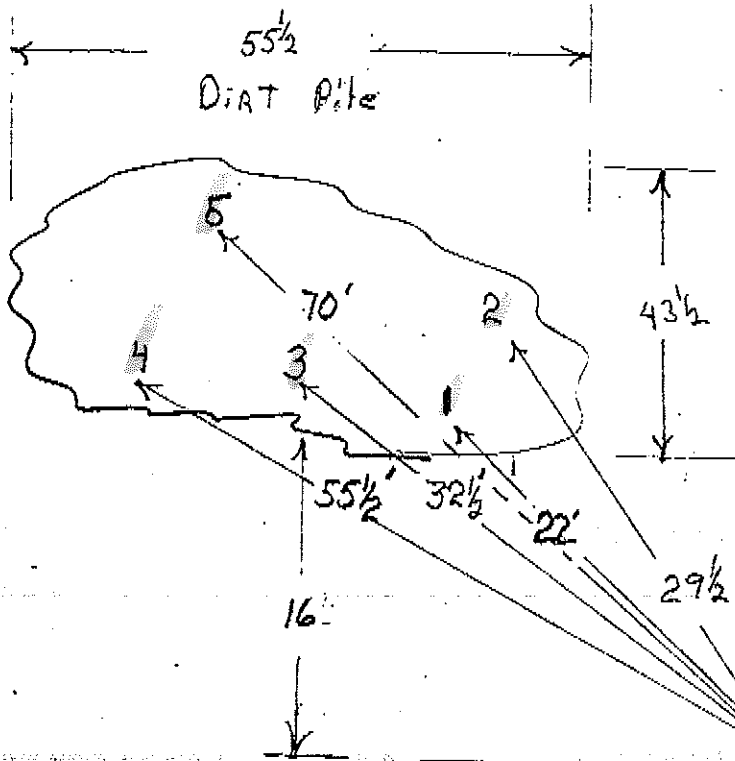
	Required (yes/no)	Due (date)	Completed (date)	Reviewed (date/person)
*Site Assessment	y		5/24/93	Cynthia Wanless 5/27/93
*Work Plan				
*Remediation/Monitoring				

Letters (date/author): 4/29/91 J Hildenbrand (tpchd), 4/30/91 WT Todd (DOE), 8/3/92 WT Todd (DOE), 3/29/93 C Wanless (tpchd), 5/24/93 E Menotti

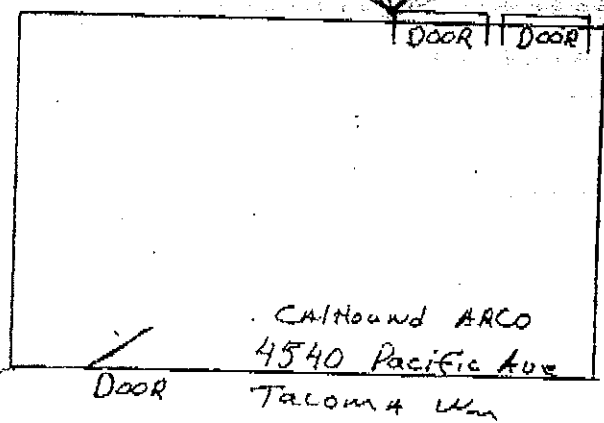
Other Agency involvement:

MENOTTI EXCAVATING

709 E. 90th
 Tacoma, WA 98445
 (206) 531-9036 - FAX (206) 536-0567



- # 1 - 22' From point of Beginning
- # 2 - 29 1/2'
- # 3 - 32 1/2'
- # 4 - 55 1/2'
- # 5 - 70'



POINT OF BEGINNING

So. 46th



So 46th and Pacific
 Tacoma WA
 depth of samples -30"

Pacific Avenue

4/19/93

Drawing By
 ED MENOTTI



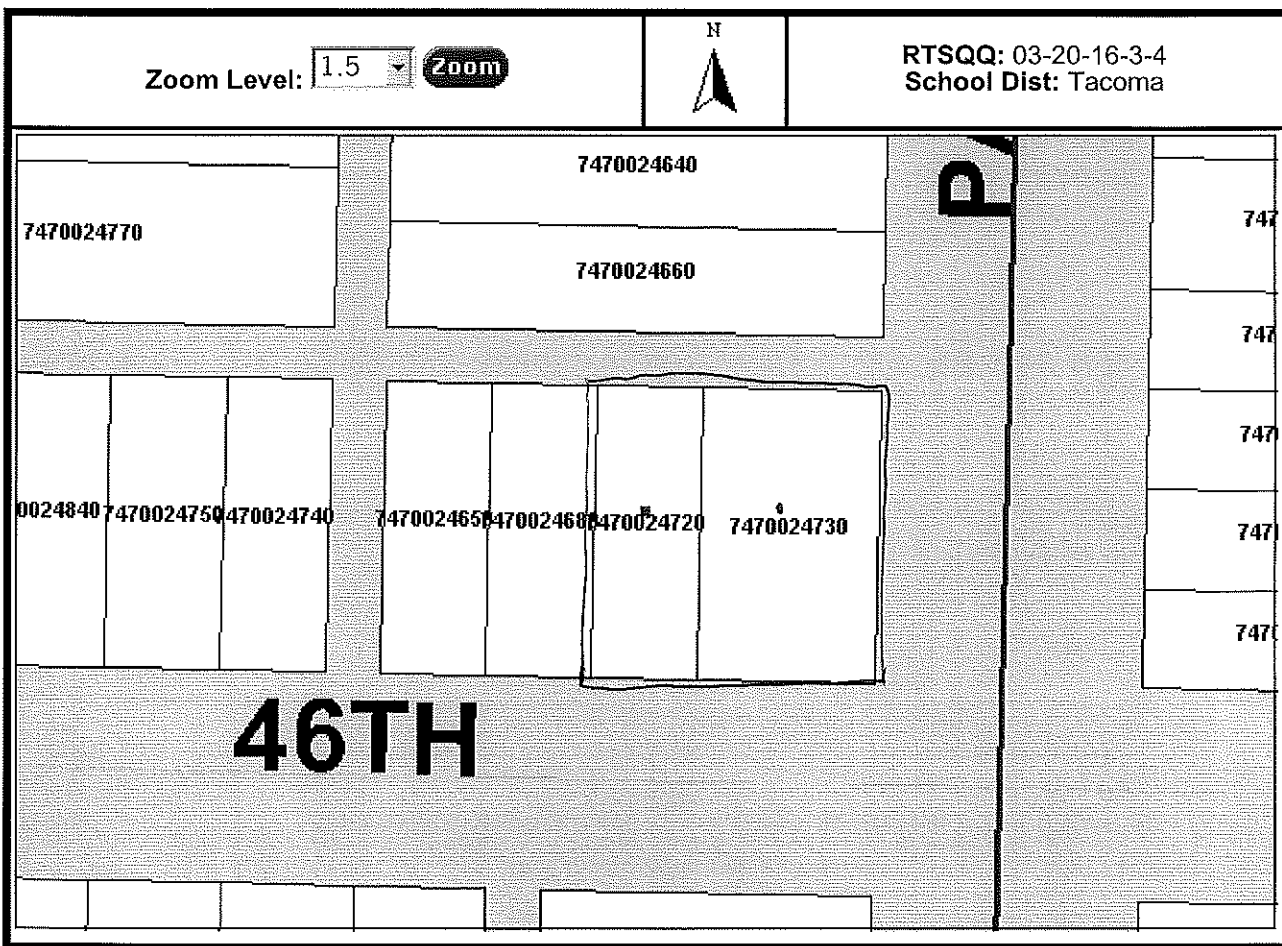
**Pierce County
Assessor-Treasurer's Office**



Parcel:	R7470024720 30	Date:	01/23/2002, 03:36 PM
Name:	CALHOUN FAMILY LLC		
Site Address:	4540 PACIFIC AV		
Mailing Address:	1009 E 55TH ST , TACOMA WA 98404		
Use Code:	9780 COMMERCIAL LAND WHICH DOES NOT HAVE A BUILDING VALUE BUT DOES HAVE A BUILDING.		

Please Click One Of The Following For Details

[Tax & Assessment](#)
 [Land Characteristics](#)
 [Parcel Map](#)
 [Recorded Data](#)
 [Back to Search](#)



For additional mapping options, visit [Map Your Way](#)

Pierce County Assessor-Treasurer
 2401 South 35th St Room 142
 Tacoma, Washington 98409
 (253)798-6111 or Fax (253)798-3142

I acknowledge and agree to the prohibitions listed in RCW 42.17.260(9) against releasing and/or using lists of individuals for commercial purposes.

**Tacoma-Pierce County
Health Department**

Alfred M. Allen, M.D., M.P.H.
Director of Health

Permit # **5709**

VALIDATION Health-Environmt Health
For Deposit Only,
TPCHD Tacoma Wash
5709 400.00 TOTAL
11 5709 400.00 CHECK
000001 02-28-91 T15:23

Expires 180 days from validation date

UNDERGROUND STORAGE TANK REMOVAL PERMIT

Tacoma-Pierce County Health Department
3629 South "D" Street, EH-3126
Tacoma, WA 98408 (591-6450)

Removal Firm Undetermined Phone # 536-0567

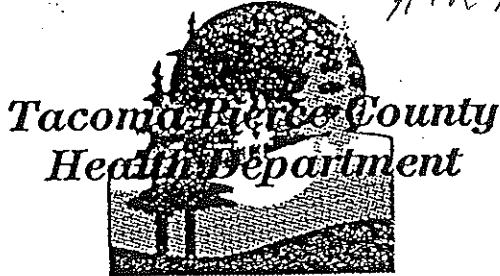
Site Location 4540 Pacific Ave

Owner Donald R. Calhoun 1009 E 55th St

All work must be performed in accordance with current laws, ordinances, resolutions and rules and regulations.

Approval Signature 

TO BE POSTED ON SITE — DO NOT ALTER OR DEFACE



Alfred M. Allen, M.D., M.P.H.
Director of Health

A P P L I C A T I O N
FOR PERMIT TO REMOVE/ABANDON
UNDERGROUND STORAGE TANKS (USTs)

<u>PERMIT FEES PER TANK SITE</u>	
Removal.....	\$400.00
Abandonment...	\$150.00

FACILITY NAME: CALHOUNS Service

FACILITY (site) ADDRESS: 4540 PAC. AVE

PARCEL NUMBER: R 747002-473-0

FACILITY OPERATOR/OWNER

TANK REMOVAL FIRM

NAME: DONALD R. CALHOUN

NAME: UNDETERMINED

ADDRESS: 1009 E. 55th ST.

ADDRESS: 709 E. 90th ST.

TACOMA W.N.

TACOMA, W.N.

TELEPHONE 472-5657 ^{Home} 472-5095 ^{work}

TELEPHONE 536-0567

DESCRIPTION OF CURRENT FACILITY USE, PAST FACILITY USE, AND ANY FUTURE PLANS FOR FACILITY: Gasoline Storage

DESCRIPTION OF TANK(S) TO BE REMOVED:

<u>Tank Size</u>	<u>Material Contained</u>	<u>Material of Construction</u>	<u>Age of Tanks</u>
1) 4000	Gasoline	steel	35 yrs
2) 4000	"	"	35 yrs
3) 6000	"	"	26 yrs
4) 300	DRAIN OIL	"	35 yrs
5)			

NOTE: ATTACH SITE DIAGRAM INCLUDING LOCATION OF TANK(S), BUILDINGS, ETC.

PROPOSED DATE OF TANK REMOVAL: WITHIN 60 DAYS

HAS FIRE DEPARTMENT PERMIT BEEN OBTAINED: _____ YES _____ X NO

IF YES, PLEASE LIST PERMIT NUMBER: _____

IF NO, PERMIT MUST BE OBTAINED BEFORE TANK REMOVAL.

APPLICATION FOR PERMIT TO REMOVE/ABANDON
UNDERGROUND STORAGE TANKS (USTs)
(Continued)

IF ANY OF THE FOLLOWING INFORMATION IS AVAILABLE, PLEASE ATTACH SUCH INFORMATION TO THIS APPLICATION OR INFORM THE TANK REMOVAL INSPECTOR IN PERSON.

- 1) Are any records of previous and/or on-going environmental monitoring available? *NO*
- 2) Are any precision testing records available? *NO*
- 3) Are any tank system repair records available? *NO*
- 4) Are inventory reconciliation records from the operation of these tanks available? *yes*
- 5) Are any records of previous ownership and/or uses available? *NO*

IMPORTANT

The Washington Department of Ecology must be notified in writing of tank removal or abandonment. This notification shall include the tank owner's name, site address, number of tanks, and the type of action intended to be taken. For more information, please call the Department of Ecology at 1-800-826-7716.

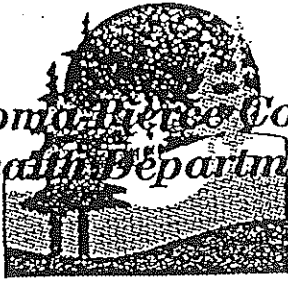
CERTIFICATION

I hereby certify that I have personally examined and am familiar with the information submitted in this document. Based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate and complete to the best of my knowledge and ability and that all known and suspected hazards have been disclosed.

Submitted by: Donald R. Calhoun
(signature)

Date: 2-28-1991

Tacoma Pierce County Health Department



Alfred M. Allen, M.D., M.P.H. Director of Health

APPLICATION

FOR PERMIT TO REMOVE/ABANDON UNDERGROUND STORAGE TANKS (USTs)

PERMIT FEES PER TANK SITE	
Removal.....	\$400.00
Abandonment...	\$150.00

FACILITY NAME: Carlsons Service

FACILITY (Site) ADDRESS: 6

PARCEL NUMBER: _____

FACILITY OPERATOR/OWNER

TANK REMOVAL FIRM

NAME: _____

NAME: _____

ADDRESS: _____

ADDRESS: _____

TELEPHONE _____

TELEPHONE _____

DESCRIPTION OF CURRENT FACILITY USE, PAST FACILITY USE, AND ANY FUTURE PLANS FOR FACILITY: _____

DESCRIPTION OF TANK(S) TO BE REMOVED:

<u>Tank Size</u>	<u>Material Contained</u>	<u>Material of Construction</u>	<u>Age of Tanks</u>
1)			
2)			
3)			
4)			
5)			

NOTE: ATTACH SITE DIAGRAM INCLUDING LOCATION OF TANK(S), BUILDINGS, ETC.

PROPOSED DATE OF TANK REMOVAL: _____

HAS FIRE DEPARTMENT PERMIT BEEN OBTAINED: _____ YES _____ NO

IF YES, PLEASE LIST PERMIT NUMBER: _____

IF NO, PERMIT MUST BE OBTAINED BEFORE TANK REMOVAL.

(Continued)

APPLICATION FOR PERMIT TO REMOVE/ABANDON
UNDERGROUND STORAGE TANKS (USTs)
(Continued)

IF ANY OF THE FOLLOWING INFORMATION IS AVAILABLE, PLEASE ATTACH SUCH INFORMATION TO THIS APPLICATION OR INFORM THE TANK REMOVAL INSPECTOR IN PERSON.

- 1) Are any records of previous and/or on-going environmental monitoring available?
- 2) Are any precision testing records available?
- 3) Are any tank system repair records available?
- 4) Are inventory reconciliation records from the operation of these tanks available?
- 5) Are any records of previous ownership and/or uses available?

IMPORTANT

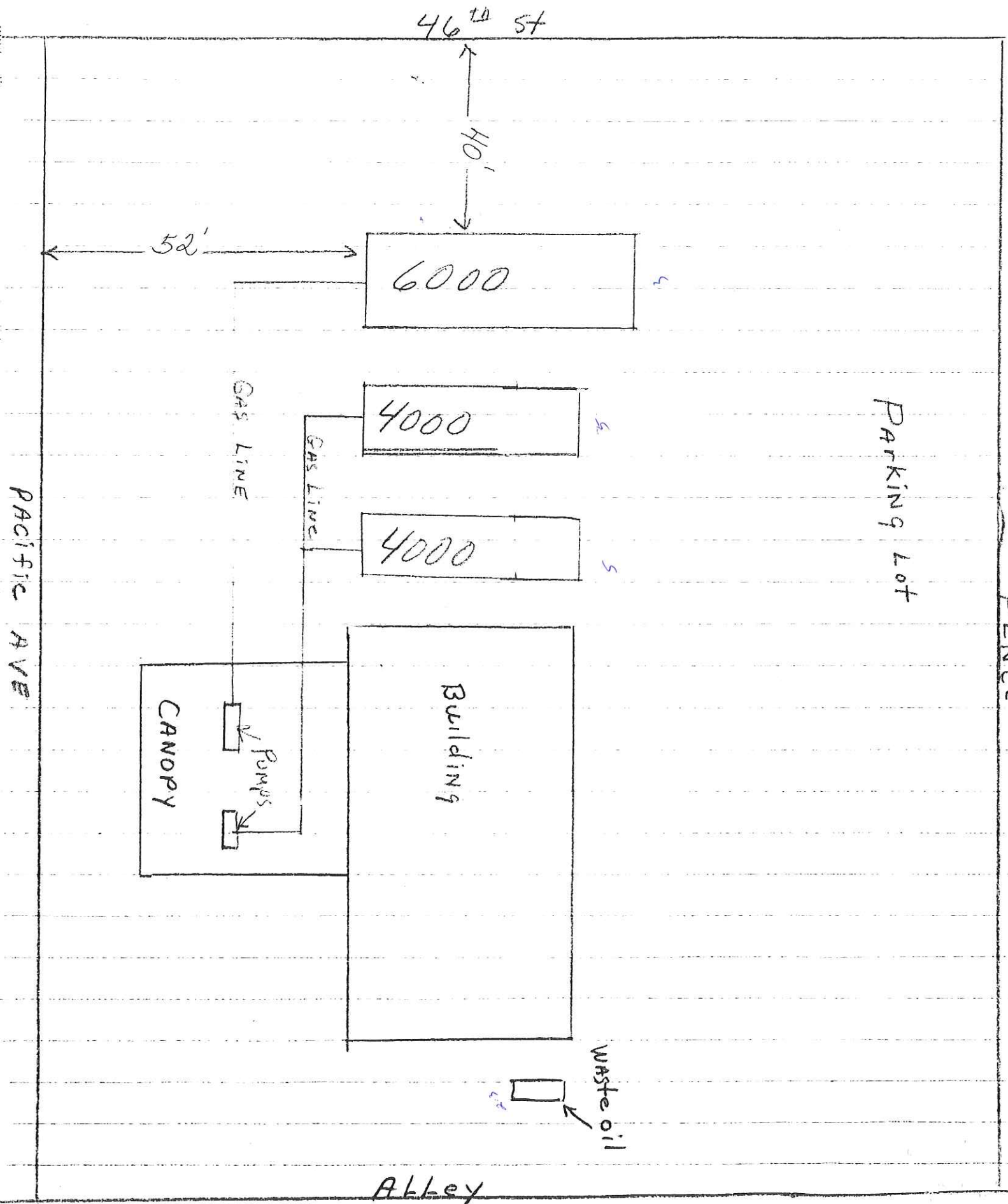
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I hereby certify that I have personally examined and am familiar with the information submitted in this document. Based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate and complete to the best of my knowledge and ability and that all known and suspected hazards have been disclosed.

Submitted by: _____
(signature)

Date: _____



46th St

110'

52'

6000

4000

4000

Building

CANOPY

Pumps

Parking Lot

waste oil

Alley

Pacific Ave

FENCE

GAS LINE

GAS LINE

5'

PIRELLA GÖTTSCHE LOWE

700 1 90th
SANTA MONICA
CALIF 90404

ATTENTION: LOVELL SHERMAN

For file

1001 MELBURN AVE
LOS ANGELES

1001 MELBURN AVE LOS ANGELES 90015

1001 MELBURN AVE LOS ANGELES 90015

1001 MELBURN AVE

7

SOUND ANALYTICAL SERVICES, INC.

ANALYTICAL SERVICES DIVISION
 1000 W. 10th Street, Suite 100
 Oklahoma City, Oklahoma 73106
 Phone: (405) 521-1111

Customer: *[Faint text]*

Sample: *[Faint text]*

DESCRIPTION:
[Faint text]

DATE:

DESCRIPTION	QTY	UNIT PRICE	TOTAL	REMARKS
<i>[Faint text]</i>	1	0.00	0.00	<i>[Faint text]</i>
<i>[Faint text]</i>	1	0.05	0.05	<i>[Faint text]</i>
<i>[Faint text]</i>	3	0.00	0.00	<i>[Faint text]</i>
<i>[Faint text]</i>	1	0.00	0.00	<i>[Faint text]</i>
<i>[Faint text]</i>	✓			<i>[Faint text]</i>
<i>[Faint text]</i>	✓			<i>[Faint text]</i>
<i>[Faint text]</i>	✓			<i>[Faint text]</i>
<i>[Faint text]</i>	✓			<i>[Faint text]</i>

SOUND ANALYTICAL SERVICES, INC.
 1000 W. 10th Street, Suite 100
 Oklahoma City, Oklahoma 73106
 Phone: (405) 521-1111

16th Ave

17th Ave

18th Ave

19th Ave

20th Ave

21st Ave

22nd Ave

23rd Ave

24th Ave

25th Ave

26th Ave

27th Ave

28th Ave

29th Ave

30th Ave

31st Ave

32nd Ave

33rd Ave

APR 29 '91

MEMORANDUM FOR THE DIRECTOR

DATE

1/10

MEMORANDUM FOR THE DIRECTOR
SUBJECT: [Illegible]

✓

✓

✓

✓

✓

TACOMA-PIERCE COUNTY HEALTH DEPARTMENT

UNDERGROUND STORAGE TANK REMOVAL

INSPECTION FORM

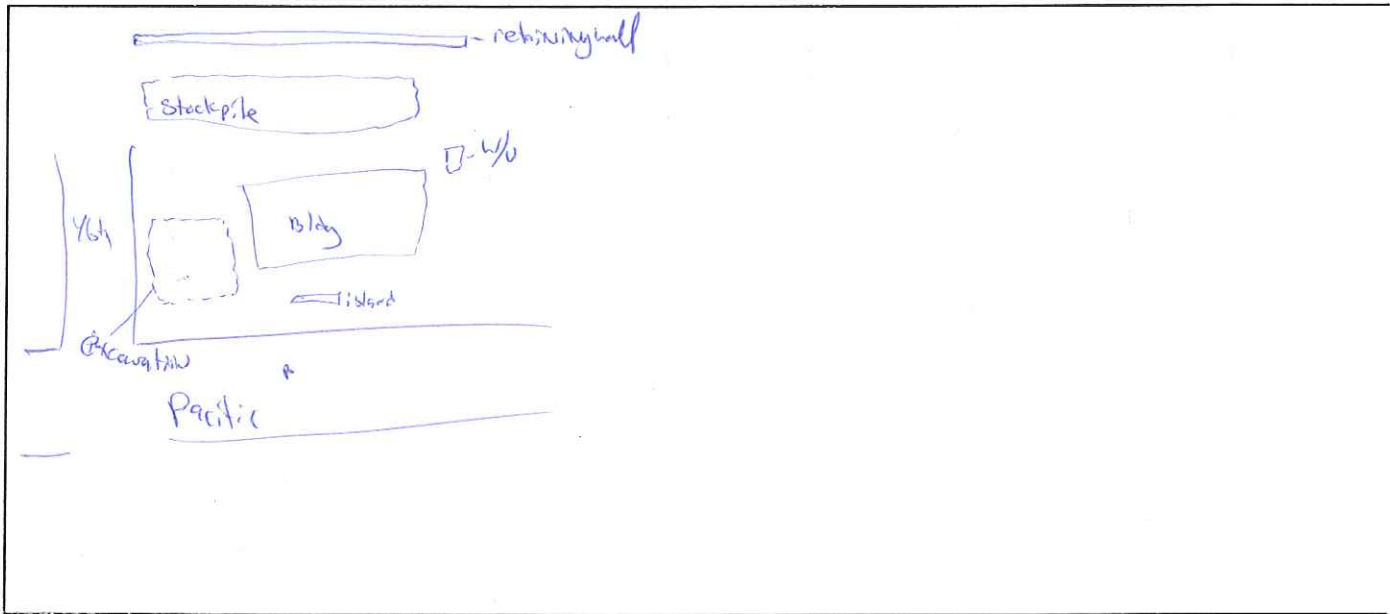
Date of Removal: 8/28/91

Site: Calhouns Area 4590 Pacific Ave 4
Name Address Number of tanks pulled

Personnel Present Onsite: Ed Menotti Crew

Depth to H₂O: 750 Distance to Surface H₂O: 700

Site Diagram:



Soil Description: granular-silty clay

Evidence of Contamination: yes no If yes, Describe: Over excavation to ~~to~~ to a depth of ~ 15 feet - ~ 250 yds of soil removed. P&H clean at that point, need waste cell results, report.
On site treatment is not allowed due to close proximity to neighbors - applying to DOE for funds

See Reverse for Further Information:



**TACOMA-PIERCE COUNTY
HEALTH DEPARTMENT**

ALFRED M. ALLEN, MD, MPH
Director of Health

BOARD MEMBERS

KAREN VIALLE - Tacoma Mayor, Chair
JOE STORTINI - Pierce County Executive, Vice-Chair
PAUL E. MILLER - Tacoma Councilmember
BARBARA SKINNER - Pierce County Councilmember
DENNIS A. STRANIK - Pierce County Cities & Towns
M. JAMES WICKS, MD - Member-At-Large

April 29, 1991

**Ed Menotti
Menotti Excavating
709 E. 90TH
Tacoma, WA 98445**

Dear Mr. Menotti:

As per our earlier conversation regarding Calhoun's Arco, the excavation appears to be free of contamination exceeding clean-up levels. Therefore it is okay to backfill the excavation. If you plan to sample the excavated soil, please let me know if advance. I would like to be present.

Prior to the issuance of a site closure letter you will need to submit:

- 1. The site assessment report for this site must be submitted and reviewed.**
- 2. The excavated soil must be removed to an acceptable treatment facility.**

If you have any questions, please contact me at 506-2849.

Sincerely,

**John Hildenbrand, R.S.
Environmental Health Specialist II
Hazardous Waste Program/Water Resources Section
Environmental Health Division**

Foster

CHRISTINE O. GREGOIRE
Director



John Hildenbrand

STATE OF WASHINGTON
DEPARTMENT OF ECOLOGY

7272 Cleanwater Lane, LU-11 • Olympia, Washington 98504-6811 • (206) 753-2353

April 30, 1991

RECEIVED

MAY 8 1991

Mr. and Mrs. Donald Calhoun
1009 East 55th Street
Tacoma, Washington 98404

TACOMA-PIERCE CO. HEALTH DEPT.
ENVIRONMENTAL HEALTH DIVISION

Re: Request for Financial Assistance to Cleanup a Release from an
Underground Storage Tank

Dear Mr. and Mrs. Calhoun:

This letter is a response to your request for information on possible state assistance in cleaning up the contaminated site at Calhoun's Service Station, 4540 Pacific Avenue, Tacoma, Washington 98408. As I was previously unaware of the contamination at this site, please fill out the enclosed New LUST Sites Checklist and Database Entry Form and return it to me as soon as possible.

Enclosed are copies of the Model Toxics Control Act (Chapter 70.105D RCW) and regulations to implement it (Chapter 173-340 WAC). The Act provides the Department of Ecology (Ecology) with the authority to cleanup petroleum-contaminated sites. Ecology is authorized to fund investigations and cleanups from the State Toxics Account and from the federal Leaking Underground Storage Tank Trust Fund.

Certain conditions must be met for an investigation or cleanup to be eligible for public funding. A consent decree must be negotiated and filed in court by the Office of the Attorney General, either before Ecology begins work at the site or during cost recovery procedures after Ecology has cleaned up the site. Furthermore, it must be demonstrated that the funding will achieve a substantially more expeditious or enhanced cleanup than would occur otherwise, and that it would prevent or mitigate unfair economic hardship. The state cannot pay contractors hired directly by the owner or operator unless stipulated in a consent decree, or reimburse owners or operators for work they have previously contracted.

In order for Ecology to evaluate requests for public funding and prioritize staff workloads, Ecology needs information about conditions at the facility and the financial state of the owner and operator. Please fill out the enclosed form, "Application for a Consent Decree and Financial Assistance for Cleanup of Releases from Underground Storage Tanks," as completely as possible. In addition, you will need to submit income tax forms for the past three years. If the business is a proprietorship, you will also need to submit financial statements for the past three years. If Ecology is not familiar with the facility, additional information will probably be requested.

Mr. and Mrs. Donald Calhoun
April 30, 1991
Page 2

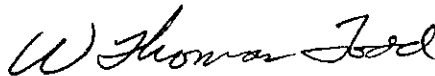
Ecology will evaluate and prioritize requests according to the threat to human health and the environment presented by the site, and the financial status of the owner and operator of the site. Because of the number of requests and staff limitations, Ecology will not be able to provide public funds for all eligible sites.

Please return the completed application form, the New LUST Sites Checklist and Database Entry Form, tax records, and if applicable, financial statements to:

W. Thomas Todd
Department of Ecology
7272 Cleanwater Lane
Mail Stop: LU-11
Olympia, Washington 98504

If you have questions related to the application or the Model Toxics Control Act, please call Jeanette Barecca at (206) 438-3040. Please contact me at Ecology's Southwest Regional Office at (206) 586-4689, if you have technical questions regarding cleanup of the site.

Sincerely,



W. Thomas Todd
LUST Site Manager
Toxics Control Program

WTT:le
Enclosures

cc: Jeanette Barecca, TCP
John Hildenbrand, TPCHD

New LUST Sites Checklist and Database Entry Form

Date of First Report _____

UST Site Number _____

Site Name _____

Contact Person _____ Contact Phone _____

Site Street _____

Site City _____ Site County _____

Site ZIP _____ Site Phone _____

Owner (If different than above) _____

Owner's Address _____

Owner's Phone _____

CONSULTANT _____ CONSULTANT PHONE _____

COMPANY _____

ADDRESS _____

Other Contact _____ Phone _____

Affiliation _____

Type of Facility _____ # of Tanks _____

Product(s) _____

Tank Status (In or Out) _____ Cleanup Status _____

LEAD FOR CLEANUP IS: _____ TRUST FUND \$ USED? _____

POLLUTED MEDIA _____

SOUND ANALYTICAL SERVICES, INC.

SPECIALIZING IN INDUSTRIAL & TOXIC WASTE ANALYSIS

4813 PACIFIC HIGHWAY EAST, TACOMA, WASHINGTON 98424 - TELEPHONE (206)922-2310 - FAX (206)922-5047

Report To: Calhoun

Date: May 23, 1991

Report On: Analysis of Soil

Lab No.: 17562

IDENTIFICATION:

Samples Received on 05-10-91

Project: 43rd & Pacific

ANALYSIS:

Lab Sample No.	1	2
Client Identification	Side Tank Wall	Side Tank Fill
Units	mg/kg	mg/kg
Total Petroleum Hydrocarbons by EPA Method 418.1	51 ✓	260
Total Metals:		
Arsenic	< 5.5 ✓	< 5.5 ✓
Barium	99 ✓	160 ✓ - MTHB B 500
Cadmium	< 0.14 ✓	< 0.14 ✓
Chromium	50 ✓	41 ✓
Lead	39 ✓	140 ✓
Mercury*	< 0.1 ✓	< 0.1 ✓
Selenium	< 8.3 ✓	< 8.3 ✓ - STD ?
Silver	< 0.55 ✓	< 0.55 ✓ - MTHB 240

Note - TPH results reported on an as received basis.

* by Cold Vapor

waste oil ?

SOUND ANALYTICAL SERVICES

Stan Palmquist
STAN P. PALMQUIST

SOUND ANALYTICAL SERVICES, INC.

SPECIALIZING IN INDUSTRIAL & TOXIC WASTE ANALYSIS

4813 PACIFIC HIGHWAY EAST, TACOMA, WASHINGTON 98424 - TELEPHONE (206)922-2310 - FAX (206)922-5047

QUALITY CONTROL REPORT

DUPLICATES

Lab No: 17562 (1)
Date: May 23, 1991
Client: Calhoun

Client ID: Side Tank Wall
Matrix: mg/kg
Units:

Compound	Sample(S)	Duplicate(D)	RPD*	
Arsenic	< 5.5	< 5.5	---	
Barium	99	85	15.2	
Cadmium	< 0.14	< 0.14	---	
Chromium	50	42	17.4	
Lead	39	35	10.8	
Selenium	< 8.3	< 8.3	---	
Silver	< 0.55	< 0.55	---	
Mercury	< 0.1	< 0.1	---	
Total Petroleum Fuel Hydrocarbons	51	49	---	

*RPD = relative percent difference
= $[(S - D) / ((S + D) / 2)] \times 100$

MENOTTI EXCAVATING

709 E. 90th
Tacoma, WA 98445
(206) 531-9036

FAX (206) 536-0567

FACSIMILE COVER SHEET

TO: HEATH DEOS
ATTN: JOHN HILDENBRAND
FAX #: 531-6589

Number of page(s) sent, including cover sheet: 2

If you do not receive the number of pages indicated in the space above please call us at (206) 531-9036.

MEMO

CALHOUN AR200

FROM: _____

DATE: 6 / 24 / 91

SOUND ANALYTICAL SERVICES, INC.

SPECIALIZING IN INDUSTRIAL & TOXIC WASTE ANALYSIS

4813 PACIFIC HIGHWAY, TACOMA, WASHINGTON 98424 • TELEPHONE (206)922-2310 • FAX (206)922-5047

Report To: Menotti Excavating

Date: June 20, 1991

Report On: Analysis of Soil

Lab No.: 18097

IDENTIFICATION:

Samples Received on 06-12-91

Project: Calhoun's Arco Service Station, 46th & Pacific.

ANALYSIS:

Lab Sample No.	1	2	3
Client ID	N. End Excav.	Middle Excav.	South End
Units	mg/kg	mg/kg	mg
Benzene	3.3	0.31	< 0.05
Toluene	150	30	< 0.05
Ethyl Benzene	88	46	< 0.05
Xylenes	570	390	< 0.05
Total Petroleum Fuel Hydrocarbons	7,500	6,800	22
TPH as	Gasoline	Gasoline	Gasoline
Total Lead	8.6	12	0.10

Samples were analyzed for BTEX in accordance with SW-846 Method 8020 and for TPH by Modified 8015, using purge and trap techniques which can only detect gasoline (Method 5030).

Note - Results reported on an as received basis.

SURROGATE RECOVERY, %

Lab Sample No.	1	2	
BTEX -Trifluorotoluene	242*	162*	
WTPH-G-Trifluorotoluene	244*	150	9

* Surrogate Recovery high due to matrix interference.

SOUND ANALYTICAL SERVICES

Larry Kuraw
LARRY KURAW

709 E. 90th
Tacoma, WA 98445
(206) 531-9036

FAX (206)536-0567

FACSIMILE COVER SHEET

TO: TACOMA - PIERCE COUNTY HEALTH DEPT.

ATTN: MR. JOHN HILDENBRAND

FAX #: 591-6587

Number of page(s) sent, including cover sheet: 4 (FOUR)

If you do not receive the number of pages indicated in the space above please call us at (206)531-9036.

MEMO

JOHN, RESPONDING TO YOUR PHONE CALL
REGARDING THE CALHOUN'S SERVICE PROJECT.
PLEASE SEE THE ENCLOSED ANALYSIS OF SOIL REPORT.
I BELIEVE THIS IS WHAT YOU WERE ASKING FOR, IF NOT

FROM: RAUL O'ROYA

DATE: OCT 12 1991

PLEASE CALL ME BACK SO THAT I CAN GET
THE INFORMATION YOU NEED

SOUND ANALYTICAL SERVICES, INC.

SPECIALIZING IN INDUSTRIAL & TOXIC WASTE ANALYSIS

4613 PACIFIC HIGHWAY EAST, TACOMA, WASHINGTON 98424 - TELEPHONE (206)922-2310 - FAX (206)922-5047

Report To: Menotti Excavating

Date: June 20, 1991

Report On: Analysis of Soil

Lab No.: 18097

IDENTIFICATION:

Samples Received on 06-12-91

Project: Calhoon's Arco Service Station, 46th & Pacific.

ANALYSIS:

Lab Sample No.	1	2	3
Client ID	N. End Excav.	Middle Excav.	South End
Units	mg/kg	mg/kg	mg/kg
Benzene	3.3	0.31	< 0.05
Toluene	150	30	< 0.05
Ethyl Benzene	88	46	< 0.05
Xylenes	570	390	< 0.05
Total Petroleum Fuel Hydro- carbons	7,500	6,800	22
TPH as	Gas- oline	Gas- oline	Gas- oline
Total Lead	8.6	12	0.10

Samples were analyzed for BTEX in accordance with SW-846 Method 8020 and for TPH by Modified 8015, using purge and trap techniques which can only detect gasoline (Method 5030).

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SURROGATE RECOVERY, %

Lab Sample No.	1	2	3
BTEX -Trifluorotoluene	242*	162*	93
WTPH-G-Trifluorotoluene	244*	150	93

* Surrogate Recovery high due to matrix interference.

SOUND ANALYTICAL SERVICES

Larry Zuraw
LARRY ZURAW

waste oil.

SOUND ANALYTICAL SERVICES, INC.

SPECIALIZING IN INDUSTRIAL & TOXIC WASTE ANALYSIS

4813 PACIFIC HIGHWAY EAST, TACOMA, WASHINGTON 98424 - TELEPHONE (206)922-2310 - FAX (206)922-6047

QUALITY CONTROL REPORT

DUPLICATES

Lab No: 18097 (3)
 Date: June 20, 1991
 Client: Menotti Excavating

Client ID: South End
 Matrix: Soil
 Units: mg/kg

Compound	Sample(S)	Duplicate(D)	RPD*
Benzene	< 0.05	< 0.05	---
Toluene	< 0.05	< 0.05	---
Ethyl Benzene	< 0.05	< 0.05	---
Xylenes	< 0.05	< 0.05	---
%Surrogate Recovery Trifluorotoluene	93	90	---
Total Petroleum Fuel Hydrocarbons	22	21	4.7
%WTPH-G- Trifluorotoluene	93	92	---

*RPD = relative percent difference
 = $[(S - D) / ((S + D) / 2)] \times 100$

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Total Petroleum Fuel Hydrocarbons	22	21	4.7
%WTPH-G- Trifluorotoluene	93	92	---
Total Lead	10	10	---

*RPD = relative percent difference
 = $[(S - D) / ((S + D) / 2)] \times 100$

Chuck Clarke
XXXXXXXXXXXXXXXXXXXX
Director



STATE OF WASHINGTON
DEPARTMENT OF ECOLOGY

7272 Cleanwater Lane, LU-11 • Olympia, Washington 98504-6811 • (206) 753-2351

August 3, 1992

Mr. Donald Calhoun
Calhoun's Service Station
4540 Pacific Avenue
Tacoma, Washington 98408-7736

Dear Mr. Calhoun:

Re: Financial Assistance for Cleanup of Calhoun's Service Station

This letter is to inform you that Ecology has allocated a limited amount of money to conduct the cleanup of the soils at Calhoun's Service Station. I am now in the process of fulfilling the procedural requirements of the Model Toxics Control Act. The step that is now under way is a Site Hazard Assessment. This step should be complete by the end of August 1992. At that time, I will be able to spend the money that is now allocated to your site.

Since no Remedial Investigation and Feasibility Study (RI/FS) has been done, or is needed (because the excavation is "clean" and no groundwater is involved [WAC 173-340-450]), I need to have a basis for writing the Cleanup Action Plan (CAP).

The next step will be to write a public works contract Request For Proposal. The purpose will be to solicit bids for cleaning up the soil at Calhoun's Service Station.

After receiving the bids I will evaluate them and choose one using cost and considerations of efficacy (the method in WAC 173-340-360). Then I will write the CAP, do the required public information activities, and let the contract for the cleanup.

I expect the process to take six months to a year to complete.

If you have any questions about this process, please contact me at the above address, or by telephone at 664-0301.

Sincerely,

W. Thomas Todd
LUST/Preremedial Unit Supervisor
Toxics Cleanup Program

*NO Funds
from Ecology
available.*

WTT:le

SOUND ANALYTICAL SERVICES, INC.

SPECIALIZING IN INDUSTRIAL & TOXIC WASTE ANALYSIS

4813 PACIFIC HIGHWAY EAST, TACOMA, WASHINGTON 98424 - TELEPHONE (206)922-2310 - FAX (206)922-5047

Report To: Don Calhoun

Date: April 15, 1993

Report On: Analysis of Soil

Lab No.: 31336

Page 1 of 5

IDENTIFICATION:

Samples received on 04-09-93

ANALYSIS:

Lab Sample No. 31336-1

Client ID: 1

WTPH-G with BTEX by Method 8020

Date Extracted: 4-12-93

Date Analyzed: 4-14-93

<u>Parameter</u>	<u>Concentration, mg/kg</u>	<u>PQL</u>	<u>Flag</u>
Gasoline (C7 - C12)	ND	1.0	
Benzene	ND	0.05	
Toluene	ND	0.05	
Ethyl Benzene	ND	0.05	
Xylenes	ND	0.05	

SURROGATE RECOVERY, %

Trifluorotoluene 81

ND - Not Detected

PQL - Practical Quantitation Limit

Continued . . .

SOUND ANALYTICAL SERVICES, INC.

Don Calhoun
Page 2 of 5
Lab No. 31336
April 15, 1993

Lab Sample No. 31336-2

Client ID: 2

WTPH-G with BTEX by Method 8020

Date Extracted: 4-12-93

Date Analyzed: 4-14-93

<u>Parameter</u>	<u>Concentration, mg/kg</u>	<u>PQL</u>	<u>Flag</u>
Gasoline (C7-C12)	ND	1.0	
Benzene	ND	0.05	
Toluene	ND	0.05	
Ethyl Benzene	ND	0.05	
Xylenes	ND	0.05	
<u>SURROGATE RECOVERY, %</u>			
Trifluorotoluene	93		

ND - Not Detected

PQL - Practical Quantitation Limit

Continued . . .

SOUND ANALYTICAL SERVICES, INC.

Don Calhoun
Page 3 of 5
Lab No. 31336
April 15, 1993

Lab Sample No. 31336-3

Client ID: 3

WTPH-G with BTEX by Method 8020
Date Extracted: 4-12-93
Date Analyzed: 4-14-93

<u>Parameter</u>	<u>Concentration, mg/kg</u>	<u>PQL</u>	<u>Flag</u>
Gasoline (C7-C12)	ND	1.0	
Benzene	ND	0.05	
Toluene	ND	0.05	
Ethyl Benzene	ND	0.05	
Xylenes	ND	0.05	
<u>SURROGATE RECOVERY, %</u>			
Trifluorotoluene	85		

ND - Not Detected

PQL - Practical Quantitation Limit

Continued . . .

SOUND ANALYTICAL SERVICES, INC.

Don Calhoun
Page 4 of 5
Lab No. 31336
April 15, 1993

Lab Sample No. 31336-4

Client ID: 4

WTPH-G with BTEX by Method 8020
Date Extracted: 4-12-93
Date Analyzed: 4-14-93

<u>Parameter</u>	<u>Concentration, mg/kg</u>	<u>PQL</u>	<u>Flag</u>
Gasoline (C7-C12)	ND	1.0	
Benzene	ND	0.05	
Toluene	ND	0.05	
Ethyl Benzene	ND	0.05	
Xylenes	ND	0.05	

SURROGATE RECOVERY, %

Trifluorotoluene	85
------------------	----

ND - Not Detected
PQL - Practical Quantitation Limit

Continued . . .

SOUND ANALYTICAL SERVICES, INC.

Don Calhoun
Page 5 of 5
Lab No. 31336
April 15, 1993

Lab Sample No. 31336-5

Client ID: 5

WTPH-G with BTEX by Method 8020
Date Extracted: 4-12-93
Date Analyzed: 4-14-93

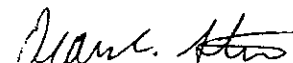
<u>Parameter</u>	<u>Concentration, mg/kg</u>	<u>PQL</u>	<u>Flag</u>
Gasoline (C7-C12)	ND	1.0	
Benzene	ND	0.05	
Toluene	ND	0.05	
Ethyl Benzene	ND	0.05	
Xylenes	ND	0.05	

SURROGATE RECOVERY, %

Trifluorotoluene	85
------------------	----

ND - Not Detected
PQL - Practical Quantitation Limit

SOUND ANALYTICAL SERVICES


DEAN A. STROM

SOUND ANALYTICAL SERVICES, INC.

SPECIALIZING IN INDUSTRIAL & TOXIC WASTE ANALYSIS

4813 PACIFIC HIGHWAY EAST, TACOMA, WASHINGTON 98424 - TELEPHONE (206)922-2310 - FAX (206)922-5047

QUALITY CONTROL REPORT

WTPH-G with BTEX
by EPA SW-846 Method 8020

Client: Don Calhoun
Lab No: 31336qc
Matrix: Soil
Units: mg/kg
Date: April 15, 1993

DUPLICATES

Dup No. 31336-5

Parameter	Sample (S)	Duplicate (D)	RPD	Flag
Gasoline (C_7-C_{12})	ND	ND	0.0	
Benzene	ND	ND	0.0	
Toluene	ND	ND	0.0	
Ethyle Benzene	ND	ND	0.0	
Xylenes	ND	ND	0.0	
<u>SURROGATE RECOVERY, %</u> Trifluorotoluene	85	81		

RPD = Relative Percent Difference
= $[(S - D) / ((S + D) / 2)] \times 100$

METHOD BLANK

Blank No. 93041304

Parameter	Result	PQL
Gasoline (C_7-C_{12})	ND	1.0
Benzene	ND	0.05
Toluene	ND	0.05
Ethyl Benzene	ND	0.05
Xylenes	ND	0.05
<u>SURROGATE RECOVERY, %</u> Trifluorotoluene	101	

ND - Not Detected

PQL - Practical Quantitation Limit



SOUND ANALYTICAL SERVICES, INC.

ANALYTICAL & ENVIRONMENTAL CHEMISTS

4813 Pacific Hwy. East
Tacoma, Washington 98424
(206) 922-2310 • FAX (206) 922-5047

CHAIN OF CUSTODY / REQUEST FOR LABORATORY ANALYSIS

CLIENT: Dan Calhoun 46th
PROJECT NAME: Calhoun Pacific
CONTACT: ED MENOFFI
PHONE NO: 1-206-531-9036

SAMPLE ID #	DATE	TIME	PRES.	MATRIX	ANALYSIS REQUESTED: (Circle, check box or write preferred method in box)																										
					BTEX	TPH 418.1	TPH Mod 8015	BTEX/8015 Combo Gasoline Only	Halogenated Volatiles EPA 801/8010	Aromatics EPA 602/8020	PAH EPA 625/8270	Purgeables (G/MS) EPA 624/8240	BNAs EPA 625/8270	Organochlorine Pest., PCB's EPA 608/8080	Total Halogens EPA 9076	TCLP Extraction Metals	TCLP Extraction Volatile Organics	TCLP Extraction Semi-volatiles	TCLP Extraction Pesticides & Herbicides	Total Metals ICP GFAA											
1	4/9/88	2:30 PM	5	soil	<input checked="" type="checkbox"/>																										
2				Calhoun	<input checked="" type="checkbox"/>																										
3					<input checked="" type="checkbox"/>																										
4					<input checked="" type="checkbox"/>																										
5				soil	<input checked="" type="checkbox"/>																										
6.																															
7.																															
8.																															
9.																															
10.																															
11.																															
12.																															

OTHER:

RELINQUISHED BY: Signature: <i>[Signature]</i> Printed Name:	RELINQUISHED BY: Signature: Printed Name:
Firm:	Firm:
Date/Time:	Date/Time:
RECEIVED BY: Signature: <i>[Signature]</i> Printed Name: <i>[Name]</i>	RECEIVED BY: Signature: Printed Name:
Firm: <i>[Firm]</i>	Firm:
Date/Time: <i>[Date]</i>	Date/Time:
SPECIAL INSTRUCTIONS / COMMENTS: <i>4540 Pacific Ave Tacoma WA 98403 472-5095</i>	

Cynthia Wainless?

709 E. 90th
Tacoma, WA 98445
(206) 531-9036 · FAX (206) 536-0567

May 24, 1993

Calhoun's Arco
4540 Pacific Avenue
Tacoma, Washington 98408

Re: Tank Closure - 4540 Pacific Avenue, Tacoma, Wa. 98408

We removed four tanks off above listed property; two-4,000 gallon tanks, one-approximate 50 gallon tank and one-approximate 6,000 tank. These tanks were installed in 1957, as near as we can approximate.

These tanks were in service until April 1991. The only sign of leakage was at the fill end of the tank.

During the excavation to remove this tank, various types of soil were encountered. There was no evidence of soil contamination beyond what would normally be expected. The site was over-excavated to at least (3) three feet beyond the limit of the tank. The small amount of contaminated material encountered at the fill end of tanks were stock piled on plastic on the property for later disposal.

Tank #4 (50 gallon oil tank) was located three feet north of building, at the northwest corner. Test results of May 23, 1991 are on file with the Pierce County Health Department, as are all other test results.

Letter dated April 29, 1991, from Tacoma Pierce County Health Department states it is okay to fill in these holes, which has taken place.

Thank you,

Ed M. Lotte
Site Supervisor

Cynthia Wanless

709 E. 90th
Tacoma, WA 98445
(206) 531-9036 - FAX (206) 536-0567

MAY 25, 1993

CALHOUND, S ARCO
4540 PACIFIC AVENUE
TACOMA WASHINGTON

RE. DIRT REMOVAL

THIS DIRT WILL BE USED AS COMMON FILL WHEN NEEDED.
T.P.C.H.D. HAS THE TEST FROM SOUND ANALYTICAL SERVICE, INC
DATED 4,9,93 ON FILE.

THANK YOU

ED MENOTTI

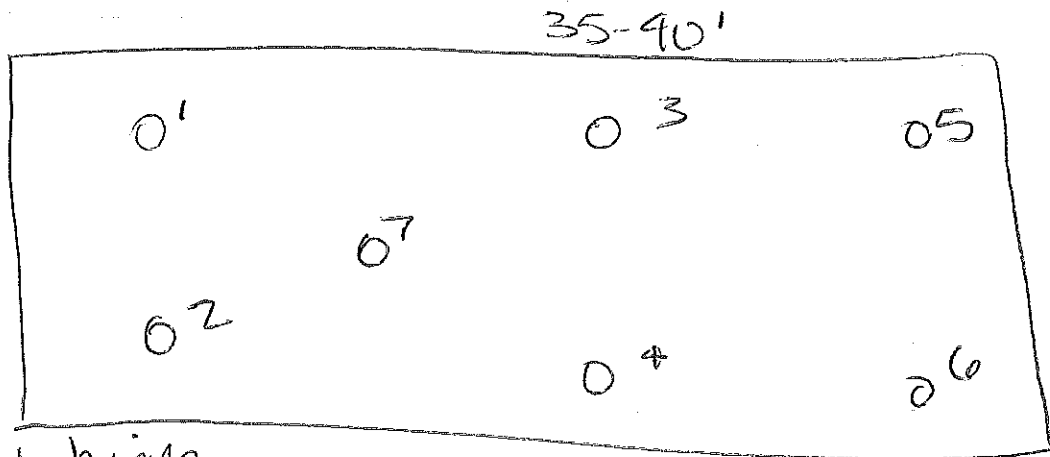
3-19-93

4540 Pacific AV

~~4540 Pacific AV~~

on site for soil analysis with
Sunny, slight breeze

OVM meter.



N →

four ft high

soil sample depth ~ 36" , soils sandy, small
gravel, cobbles - clay in some parts.

OVM meter readings -

note 1 - 0

2 - 0

3 - 124 , clay in soil

4 - 8

5 - 176 , clay in soil

6 - 8 , soil was wetter, some clay

7 - ~150 in clay, < 10 in sand

in Spring of '92 Don Cathoun was told not
to aerate, although they had wanted to. Spring '92
John had taken ovm readings - no results to be found
The bottom tank does not appear to be trapping runoff

contamination only appears to present in clay or
tighter soils, & based solely on OVM readings.
A majority of the soils appear to be sand, sm. gravel

Need follow up letter w/ requirements.

5-14-93 CW

review of ~~all~~ stockpiled PCS data.
based on ~~the~~ samples stockpile appears
clean. Q on whether TPH & oil
waste oil was ok'd by John.
closure report needed by Menotti

5-27-93 CW

review of 5-24-93 closure letter re: ft m8q.
John's comments that I need to make
improvements, review re: report.

5-27-93 CW



TACOMA-PIERCE COUNTY
HEALTH DEPARTMENT

Board of Health
KAREN VIALLE, Chair - Tacoma Mayor
DOUG SUTHERLAND, Vice-Chair - Pierce County Executive

Director of Health
FEDERICO CRUZ-URIBE, MD, MPH

March 29, 1993

Don Calhoun
1009 E 55 ST
TACOMA WA 98404

Re: Calhoun's Service Station, 4540 Pacific Avenue
Underground Storage Tank Removal/Soil Remediation

Dear Mr. Calhoun:

This letter is in follow-up to the Health Department's site visit and petroleum contaminated soil (PCS) evaluation of March 19, 1993. The photoionizable detector (PID) used is only to provide a rough estimate of remaining contamination present in the soil. Attachment A provides a schematic of the soil sampling locations and PID readings.

Based on the PID readings, the Health Department suggests that you may want to have soil samples analyzed at a certified laboratory. All soil samples must be collected by a registered site assessor in accordance with the Model Toxics Control Act Cleanup Regulation, (MTCA), WAC 173-340 and Ecology's *Guidance for Remediation of Releases from UST*. Pending results of the PCS, disposal of the soil may be possible.

In addition, there are several outstanding items which must be addressed before this underground storage tank (UST) removal project can be closed. This includes:

- ▶ results of the waste oil samples from 1991,
- ▶ a site assessment which fully characterizes the UST removal activities, sample results, PCS remediation, etc., and
- ▶ closure report to be completed in accordance with TPCHD closure regulation (Attachment B).

The above items must be completed in accordance with MTCA requirements. Upon satisfactory completion and acceptance of these items, the site may be approved for closure.

We look forward to receiving information from your site assessor or environmental consultant. If you have any questions regarding this matter, please contact me at 596-2849.

Sincerely,

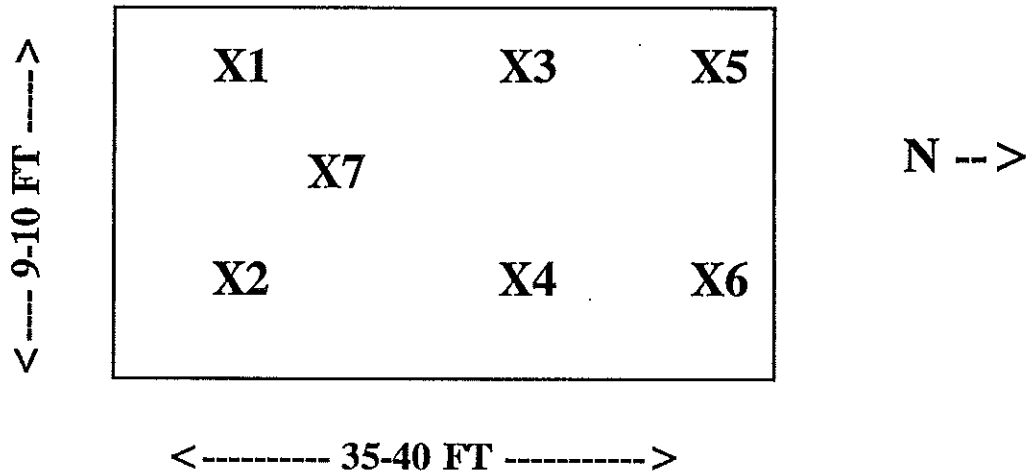
Cynthia Wanless, R.S.
Environmental Health Specialist II
Waste Management Section

CW:laa
Attachments

cc: Ed Menotti
Menotti Excavating
709 E 90th
TACOMA WA 98445

ATTACHMENT A

4540 Pacific Avenue
Soil Evaluation*



Sample Location

PID Reading

1	0	
2	0	
3	126	clay in soil
4	8	
5	176	clay in soil
6	8	
7	150	in clay, less than 10 in sand

Soil pile is approximately 4 FT high

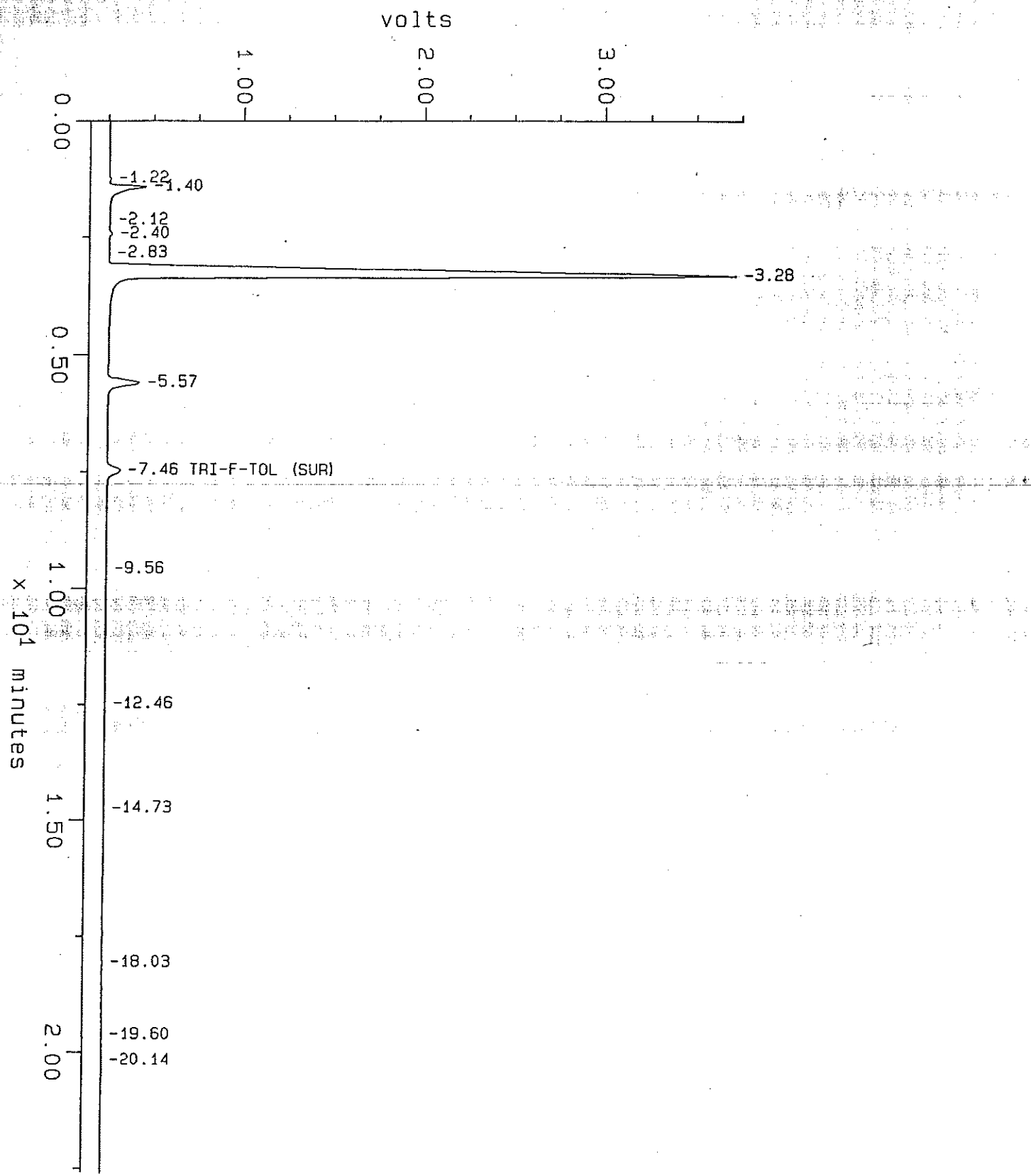
Soil sample depth 3 FT

Soil type: sand, with small gravel and clay in places

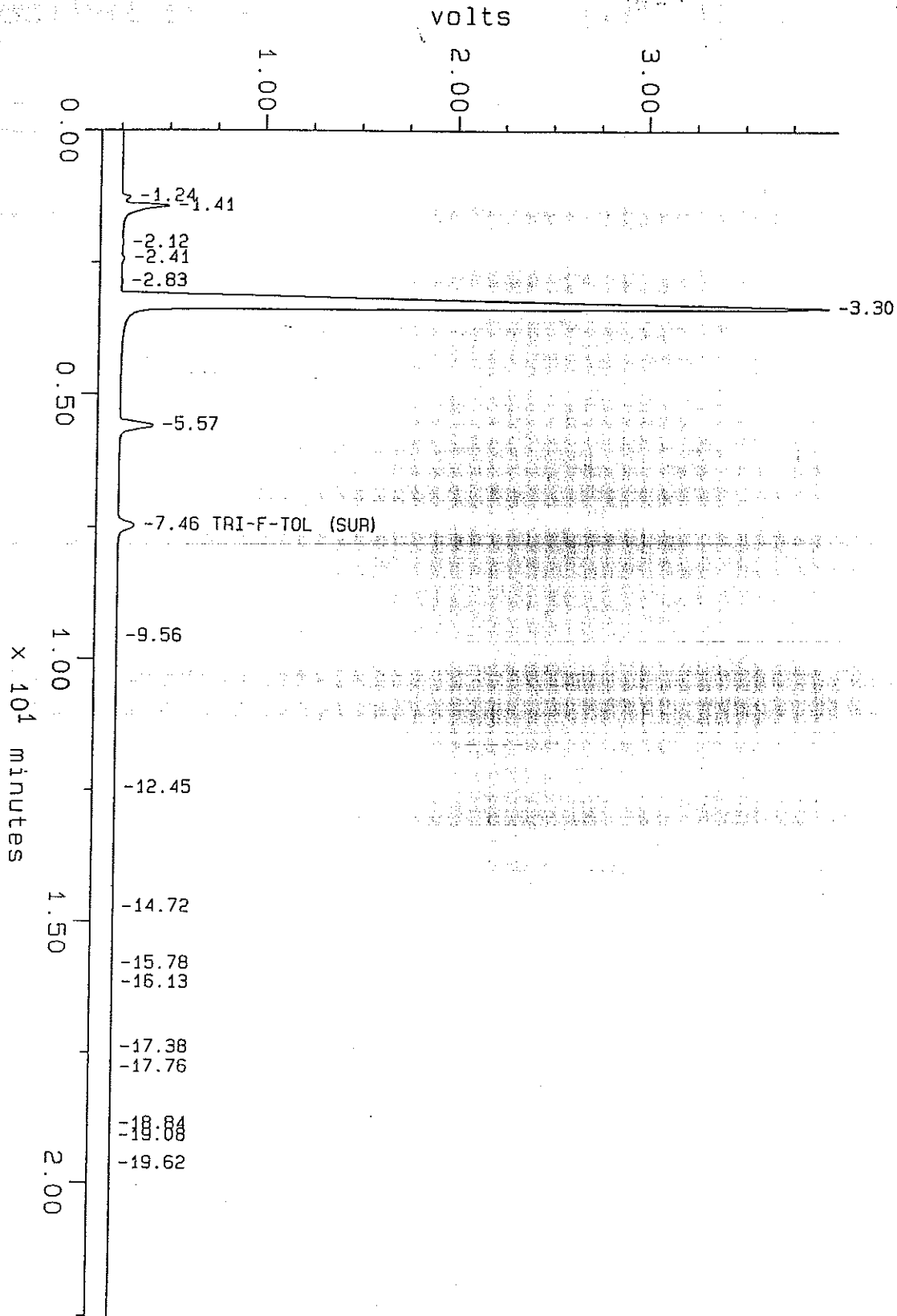
* Please note the PID is only a rough estimate of petroleum products in the soil. Laboratory sampling is required for actual determination.

Sample: 31336-1 Channel: FID
Acquired: 14-APR-93 8:23 Method: D:\DATA1\250\TPH0413A
Dilution: 1 : 44.000 Amount: 10.334
Comments: INITIAL CALIBRATION DATE 04/07/93. (METHOD TPH0407A)

Filename: 93041331
Operator: DAS

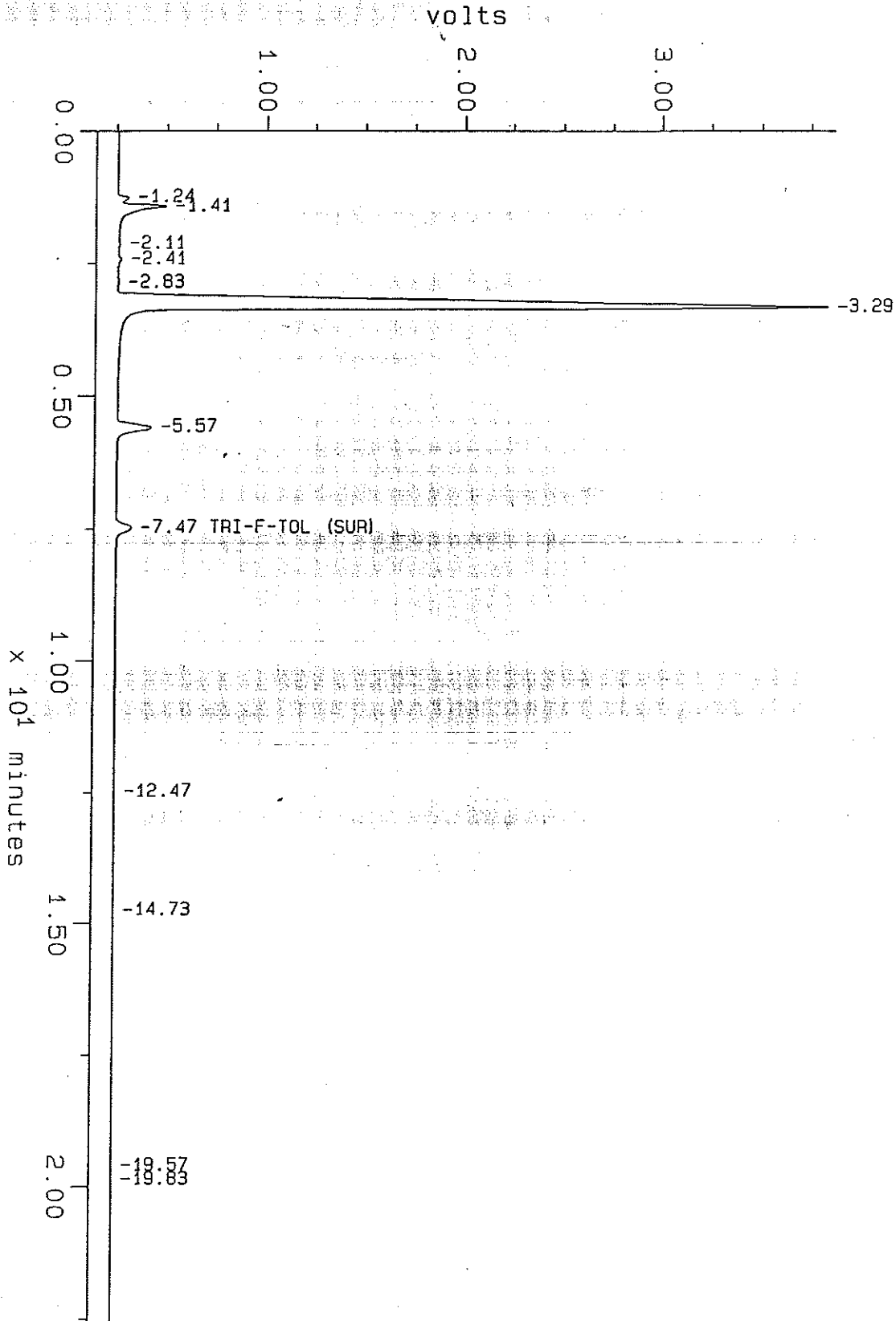


Sample: 31336-2 Channel: FID Filename: 93041332
Acquired: 14-APR-93 8:53 Method: D:\DATA1\250\TPH0413A Operator: DAS
Dilution: 1 : 44.000 Amount: 10.085
Comments: INITIAL CALIBRATION DATE 04/07/93. (METHOD TPH0407A)



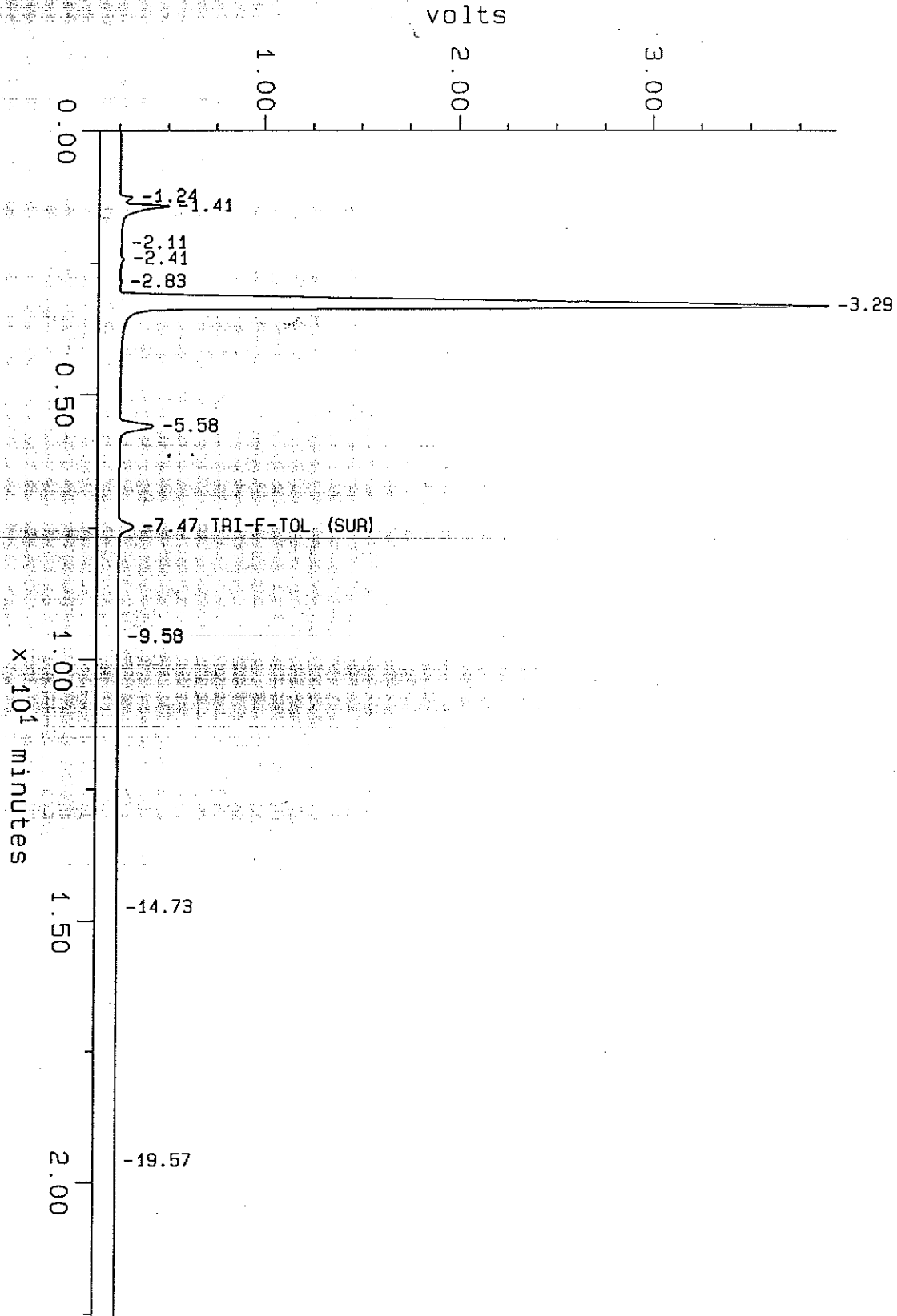
Sample: 31336-3 Channel: FID
Acquired: 14-APR-93 9:23 Method: D:\DATA1\250\TPH0413A
Dilution: 1: 44.000 Amount: 10.323
Comments: INITIAL CALIBRATION DATE 04/07/93 (METHOD TPH0407A)

Filename: 93041333
Operator: DAS



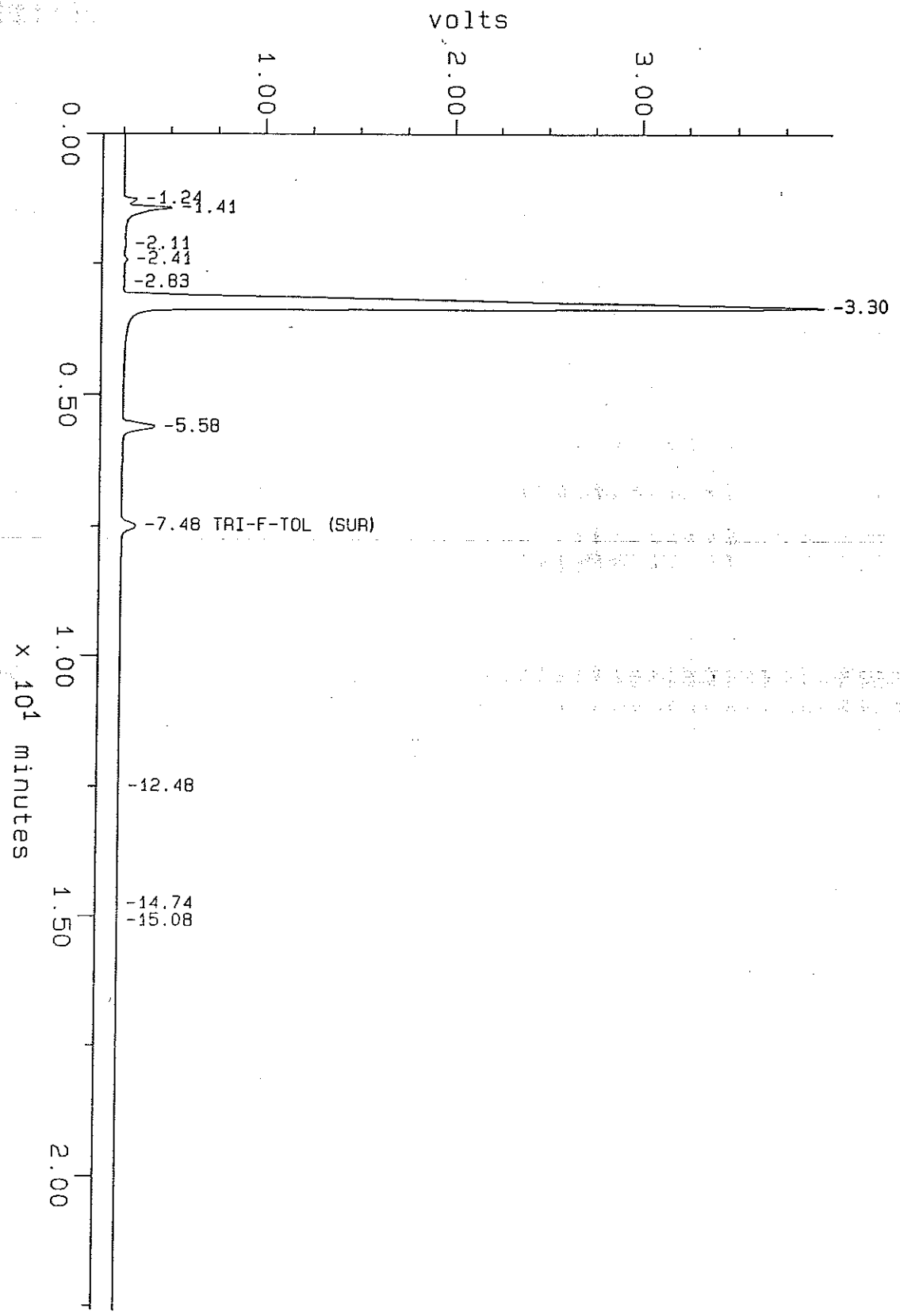
Sample: 31336-4 Channel: FID
Acquired: 14-APR-93 9:53 Method: D:\DATA1\250\TPH0413A
Dilution: 1 : 44.000 Amount: 9.928
Comments: INITIAL CALIBRATION DATE 04/07/93. (METHOD TPH0407A)

Filename: 93041334
Operator: DAS



Sample: 31336-5 Channel: FID
Acquired: 14-APR-93 10:23 Method: D:\DATA1\250\TPH0413A
Dilution: 1 : 44.000 Amount: 10.161
Comments: INITIAL CALIBRATION DATE 04/07/93. (METHOD TPH0407A)

Filename: 93041335
Operator: DAS



Sample: 31336-5D Channel: FID
Acquired: 14-APR-93 10:54 Method: D:\DATA1\250\TPH0413A
Dilution: 1 : 44.000 Amount: 10.415
Comments: INITIAL CALIBRATION DATE 04/07/93. (METHOD TPH0407A)

Filename: 93041336
Operator: DAS

