

DEPARTMENT OF THE NAVY
COMMANDER NAVAL SURFACE RESERVE FORCE
DIRECTOR OF FACILITIES WEST
960 N. HARBOR DRIVE
SAN DIEGO, CALIFORNIA 92132-5108

IN REPLY REFER TO:

5090
Ser N2E/142
October 7, 1998

Washington State Department of Ecology
Southwest Region UST Program
Attn: Norm Stewart
P.O. Box 47775
Olympia, WA 98504

Tacoma
SF 40.1

Dear Mr. Stewart,

Thank you for taking the time during our telephone call today to go over the status of our regulated UST's at the Naval and Marine Corps Reserve Centers in Seattle, Spokane and Tacoma. As discussed, we are in the process of reconciling our regulated UST inventory with that of your agency to insure that they are consistent and to resolve any discrepancies.

Confirming our telephone conversation, there are no regulated UST's at the following locations: Naval and Marine Corps Reserve Center, Seattle, 860 Terry Ave. N, Seattle, WA 98109-4391; Naval and Marine Corps Reserve Center, Spokane, 5101 N Assembly St., Spokane, WA 99205-6199; and Naval and Marine Corps Reserve Center, Tacoma, 1100 Alexander Ave., Tacoma, WA 98421-4198. If this is not accurate, please let me know by October 22, 1998.

If you have any questions or require additional information on this facility, please contact Mr. John Crow, Code N2E, at (619) 532-4028, by FAX at (619) 532-4274, or at the above address.

Sincerely,

M. D. KENNEY JR
Lieutenant, CEC, U. S. Navy

Copy to:
Naval and Marine Corps Reserve Center, Spokane
Naval and Marine Corps Reserve Center, Tacoma
Engineering Field Activity Northwest, Attn: John Gordon



MEMORANDUM

DATE: 16 Dec 1993

FROM: Beth Anderson, Code 09ET2BA

TO: Les Garden, ROICC NW

CC: Del Arreola, Code 04BDA

SUBJ: UNDERGROUND STORAGE TANK (UST) REMOVAL PROJECT AT
NMCRC Tacoma

REF: (a) UST Decommissioning/Site Assessment Report for Contract No. 44255-93-C-4060, UST Removal at NMCRC Tacoma

1. I have reviewed reference (a) and have found it acceptable with one exception. The text of the report states that the second water sample collected from the excavation pit near Bldg. 51 (sample no. WS9 #35600) contained 69 ppm total petroleum hydrocarbons. This is not correct. Actually, petroleum hydrocarbons were not detected in this sample (see Sound Analytical Services lab sheet dtd 21 Oct 1993). The text states the incorrect 69 ppm value in two places, on the 2nd page of the text and on the 2nd page of Appendix B.

2. I have made "pen and ink" corrections to my copy of this report, but it may be a good idea to ask for this submittal to be corrected and re-submitted by the contractor.

Beth

UST DECOMMISSIONING REPORT
SITE ASSESMENT REPORT

CONTRACT No. 44255-93-C-4060
UST REMOVAL PROJECT
NAVY RESERVE CENTER
1100 EAST ALEXANDER
TACOMA, WASHINGTON

NOVEMBER 1993

PREPARED FOR:
ROICC/SILVERDALE
BUILDING 1009, NAVAL SUBMARINE BASE, BANGOR
SILVERDALE, WA. 98315-5000

PREPARED BY:
N.W. STRUCTION GENERAL CONTRACTING, INC.
22317 N.E. 72ND AVENUE
BATTLE GROUND, WA. 98604
(206) 687-2040



SF NMCRC Tacoma
UST 40.0

The following site assessment report documents the activities performed by N.W. Construction General Contracting, Inc., beginning September 22, 1993 and ending November 4, 1993. These activities involved the decommissioning and removal of Underground Storage tanks (UST's) at the Naval Reserve Training Center located at 1100 East Alexander in Tacoma, Washington. The activities were performed in conjunction with the Naval Facilities Engineering Command Northwest (NAVFACENGCOM).

This site assessment has been completed in accordance with project specification requirements of NAVFACENGCOM contract #N44-255-93C-4060 and WAC 173-360-630, and following the guidance of Washington Department of Ecology (WDDE), Guidance for site checks and site assessments for Underground Storage Tanks, February 1991 (Revised October 1992).

The UST's decommissioned and removed consisted of six tanks located in three locations at the Naval Reserve Training Center- Tacoma facility. Four of the removed UST's, numbered T-3, T-2, T-1, and T-1X by NAVFACENGCOM were located within one excavation site, 100 yards from the Hylebos Waterway. UST T-4 was located on the Northwest side of building #127 and T-5 was located in the lawn area next to building #55. The purpose of this report is to document the site conditions found during and after the decommissioning work. In Appendix A you will find a site map which indicates the tank locations prior to removal.

TANK LOCATION/INFORMATION

Tanks were located within the Navy Marine Training Center Facilities located at 1100 East Alexander, Tacoma, Washington. Tanks T-3, T-2, T-1 and T-1X were located within a single excavation next to Building #51. Building #51 housed a large boiler which supplies steam to docked ships, this boiler had recently been converted to natural gas previously using diesel fuels. Tank T-4 located next to, and supplied an additional boiler housed in building #127. Building #127 is located approximately 300 yards South of Building #51. Tank T-5 was located in a lawn area immediately north of the facility headquarters and offices. All tanks were used heating purposes at this site.

Prior to excavation activities, asbestos pipe wrap was removed from piping supplying Building #51. Tank excavation activities were initiated with the recovery of low pump level residue, and triple rinsing of all tanks. Tank inertion was accomplished using dry ice at twenty (20) pounds per 1,000 gallon capacity. As the UST's were removed from the excavation, A Site Assessor visually inspected each tank for any visible signs of corrosion or damage that might indicate leakage had occurred. All tanks appeared to be in good condition and did not show evidence of leakage or failure.



Upon completion of visual inspections, the oxygen levels of each tank were checked prior to additional preparation for disposal. Upon reaching a desired level of 6% O₂, one end of each tank was cut out, and tanks were cleaned of any remaining residue. Tanks were then properly labeled and transported to General Metals of Tacoma, Washington for disposal. All rinsate generated during tank cleaning was disposed of at an approved off-site facility for recycling. Disposal receipts for all rinsate are included in Appendix C.

FIELD SAMPLING METHODS

Field Sampling methods and site assessment were conducted under WAC 173-360-630 guidelines. All samples were obtained from the excavation using the trackhoe bucket. a scoop of relatively undisturbed native soil was removed from the UST excavation zone. Approximately six inches of surface soil was scraped away, and a sterile glass jar was driven directly into freshly exposed, undisturbed soil. The jar was then sealed with a Teflon lined lid. Each jar was uniquely labeled and immediately place into a cooler with ice in preparation of transport. Samples were then transported to the lab for analyses. All sampling site maps as well as analyses reports and associated chain of custody documentation are presented in Appendix B.

FIELD SAMPLING

The sampling locations were determined by visual inspection of each individual tank site. Two (2) samples were obtained from the tank beds of tank numbers 3, 2, 1, and 1X. Three samples were obtained from the excavation zones of tank numbers 4 and 5. Additional sampling was performed on contaminated soils generating from T-4.

ANALYTICAL TESTING

Soil samples were analyzed for hydrocarbon identification by WTPH-HCID methodology, and corresponding WTPH for gasoline, diesel, and heavy oils as needed.

In the excavation pit located next to Building #51, tide related water was encountered at the bottom of the excavation. A water sample was obtained for analyses. Initial analyses showed results of 485.3 ppm. Upon excavation of the contaminated soils encountered in this zone, an additional water sample was obtained for laboratory analyses. Results of this anaylses document ~~lower level limits of 69 ppm.~~

that no petroleum was detected.



ANALYTICAL RESULTS

TANK T-3; 24,000 gallon

Two samples were obtained from native soils beneath this tank. Each sample was analyzed for WTPH-HCID. Analysis reports indicate non detect levels in accordance with current guidelines. No further action required.

TANK T-2; 12,000 gallon

Two samples were initially analyzed for WTPH-HCID and WTPH-D methodology as required. Initial analyses documented high levels of TPH in soils (1980.3 ppm and 350.7 ppm). Additional excavation activities were then performed within this tank zone including removal of the former tank hold-down pad and further excavation below to excavate contaminated soils lying beneath. Upon completion of additional excavation activities, two additional soil samples were obtained for analysis from within the zone. Laboratory analyses reports documents TPH levels at less than 100 ppm. These levels are below the current standard clean-up levels. The contaminated soils excavated were transported to Woodworth & Co. of Tacoma for disposal. Copies of the disposal receipts for these soils are enclosed in Appendix D. No further action required.

TANK T1; 12,000 gallon

Two samples were obtained from native soils beneath this tank. WTPH-HCID analysis was performed on each of these samples. Analyses reports indicated non-detect levels of TPH. No further action required.

TANK T-1X; 300 gallon

Tank T-1X was a 300 gallon UST that supplied heating oil to Building #51. Two samples were obtained and analyzed for WTPH-HCID, reports documented non-detect levels of TPH. No further action required.



TANK T-4; 4,000 gallon

Tank T-4 was a 4,000 gallon UST formerly supplying Diesel to Building #127's boiler. Visual inspections on this zone indicated that some leakage had occurred. Soils were excavated from within this site, until there were no further visible signs within the excavation. These soils were stockpiled on-site pending soil analyses. Two samples were then obtained from within the excavation and one from the soil pile. Analyses of samples obtained from within the zone, indicated non-detect TPH levels remaining in the excavation. Analysis report of the soils pile indicated TPH levels exceeding lower limit standards. The contaminated soils were then transported to Woodworth & Co. for disposal. Copies of disposal tickets are included in Appendix C. Analysis results indicates that all contamination has excavated from this zone. All contaminated soils have been transported to Woodworth & Co., no further action is required.

TANK T-5; 3,500 gallon

Tank T-5 was a 3,500 gallon UST which was located in the lawn area next to Administration Building #55. Contract requirements dictated that a total of three samples be collected from this site. WTPH-HCID methodology documentation of these three samples indicated TPH levels below action levels. No further action is required.

SAMPLES BLDG #51- 1,2,3

Three samples identified as BLDG. #51-1, 2, and 3 were taken to characterize the excavated soils from this site which was located next to building #51. Soils analyses (WTPH-HCID and WTPH-D) indicated contamination levels that exceed action levels. These contaminated soils were transported to Woodworth & Co. in Tacoma for disposal.

Copies of all Analysis reports with related Chain of Custody Documentation can be found in Appendix B.



SUMMARY

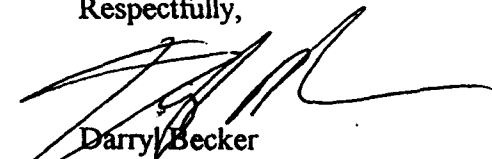
This report is based upon the decommissioning and removal of six UST's formerly known as T-1X, 1, 2, 3, 4, and 5 which were located at the Navel Reserve Facilities Training Center in Tacoma, Washington. All work was performed under Contract # N44255-93-C-4060. The observations, interpretations, and conclusions presented in this report are professional opinions based on the data described within. Conclusions are intended only for the purpose, site location, and project indicated and are specific to current site conditions.

Changes in the conditions of the subject property or changes in applicable standards which may occur with the passage of time, whether they result from natural processes, legislation, or the broadening of knowledge, may affect the conclusions offered in this report. Accordingly, the observations and findings presented in this report may be invalidated by changes outside of our control.

Soils within all areas consisted of QAF Alluvial Fan and associated deposits. All final analysis reports from samples within the tank excavation zones are below action levels. Contaminated soils encountered during the UST removal process, have been properly disposed of off-site at Woodworth & Co . in Tacoma, Washington. Based upon site observations, findings, and final analyses reports, this site may be considered a "clean closure", and no further testing or investigations associated with the tanks or ancillary piping are considered necessary at this time.

Enclosed in Appendix D are copies of the Washington State Department of Ecology Site Assessment Check list and Permanent Closure/Change in Service Checklists. Two copies of this report have been forwarded to the Underground Storage Tank Section of the WDOE in Olympia.

Respectfully,

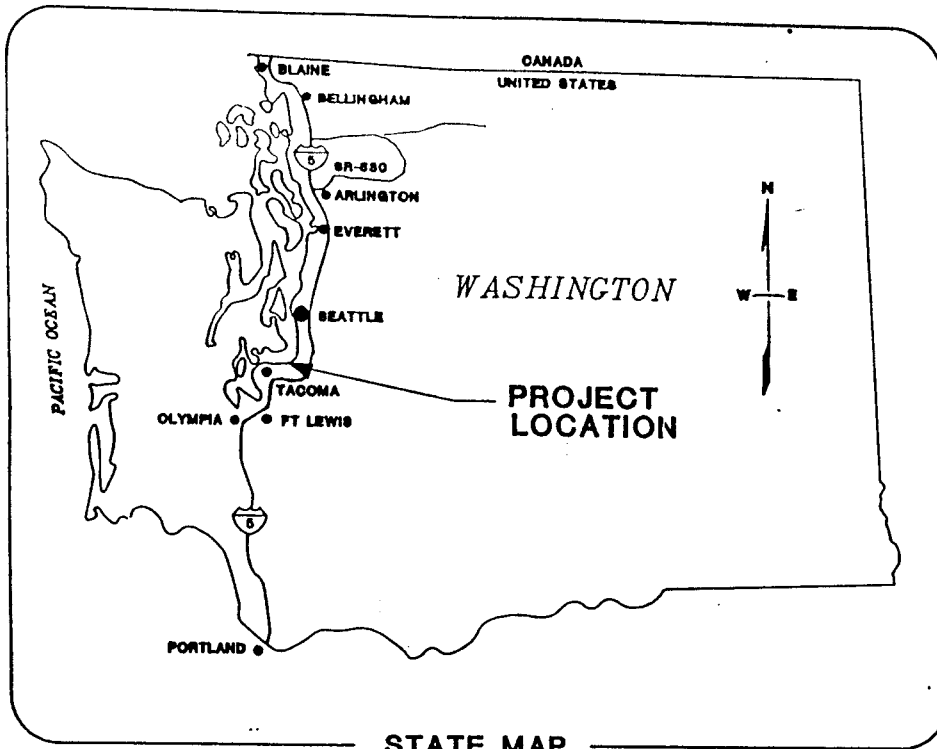


Darryl Becker
Registered Site Assessor

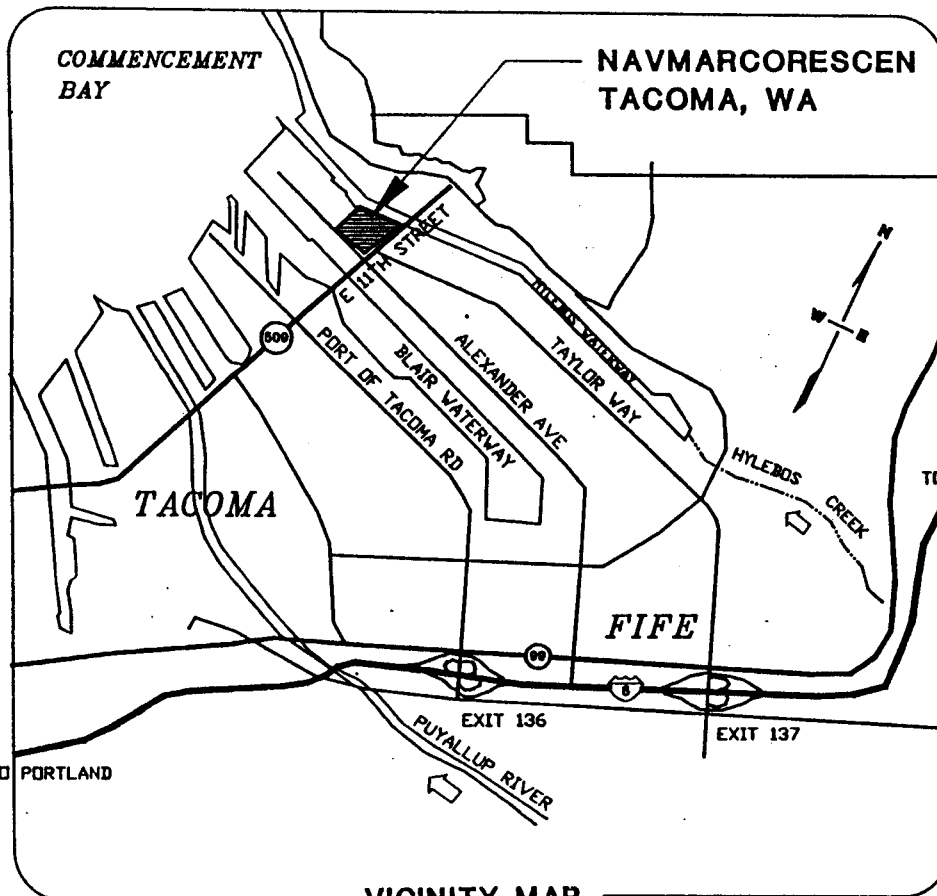


APPENDIX A



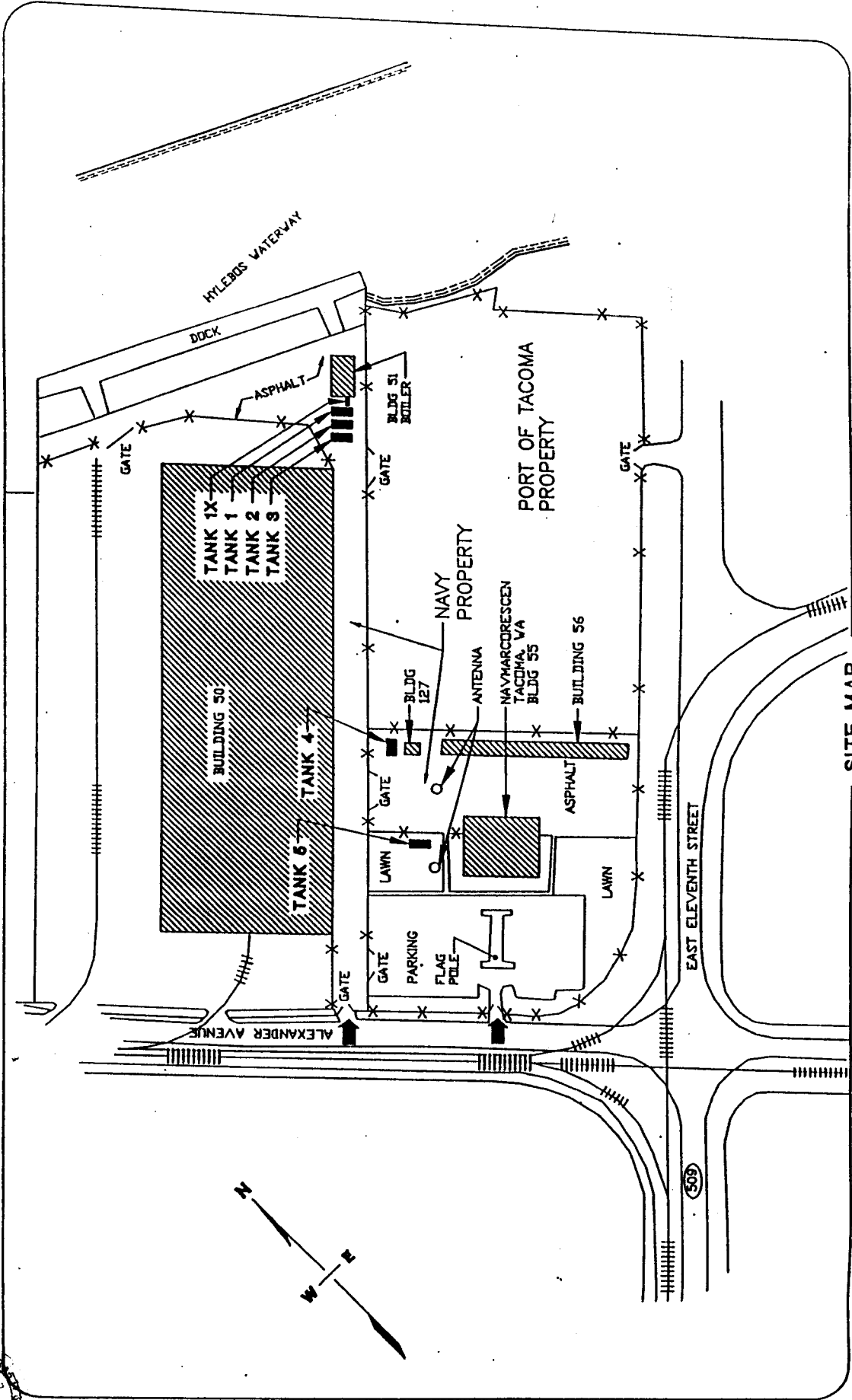


STATE MAP



VICINITY MAP





SITE MAP
SCALE: 1" = 120'



APPENDIX B



BOILER PLANT

BLDG. 51

TANK 1X →



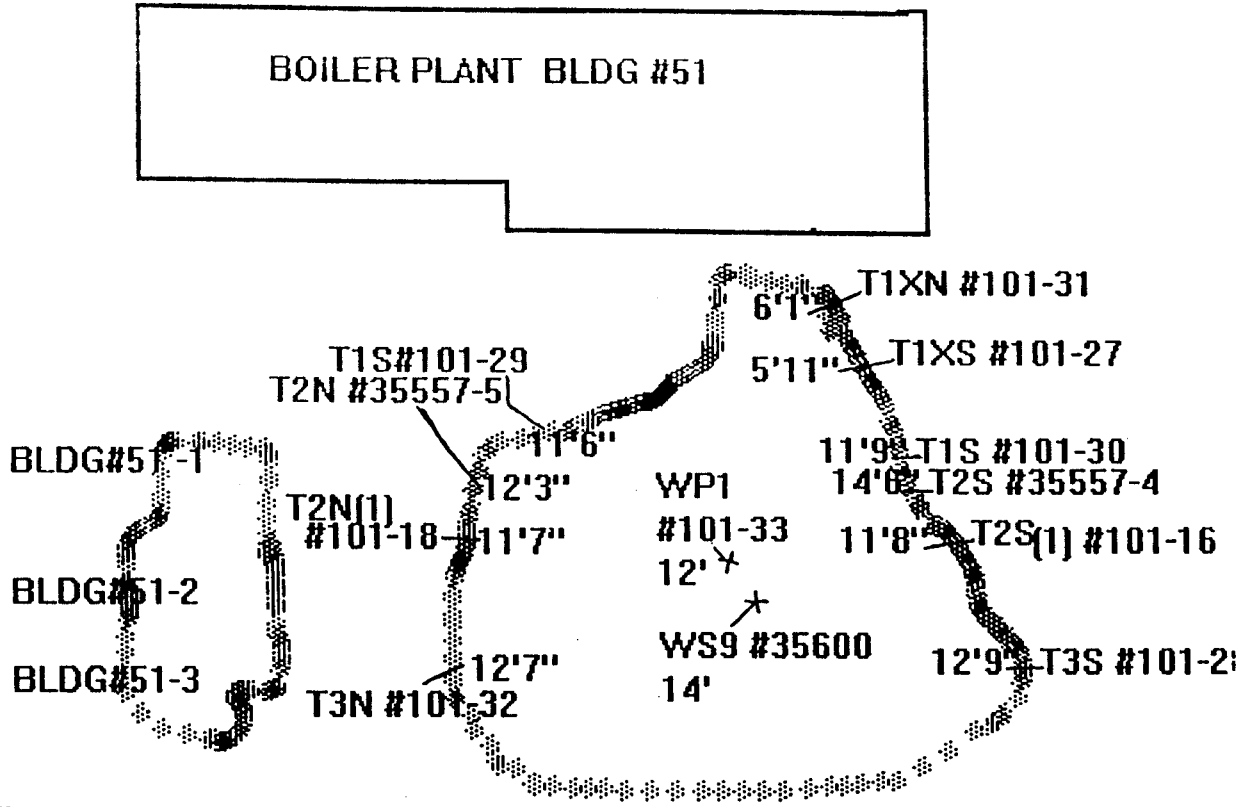
TANK 1

TANK 2

TANK 3



TANK #S : 1X, 1, 2, & 3 SAMPLING PLAN



Tank#1X

Two samples were tanken from beneath this tank. Samples #s T1XN #101-31 and T1Xs #101-27, Analyses reports indicated non-detected levels of contamination from beneath this UST.

Tank#1

Two samples were obtained from beneath this tank. Samples#s T1N#101-29 and T1S#101-30, Analyses report indicated TPH levels below standard clean up levels.

Tank#2

Two soil samples and one water sample were obtained from beneath this tank bed. Sample#s T2N(1)#101-18 showed levels at 350.7 ppm, T2S(1)#101-16 indicated a level of 1980.3 ppm, and water sample# WP1#101-33 indicated 485 ppm. Contaminated soils from beneath this tank were excavated and stockpiled next to the excavation. A tank hold-down pad was removed and additional soils were excavated from beneath the former pad. Additional soil samples were obtained at this time; T2N#35557-5 and T2s#35557-4, lab analyses reports document TPH levels to be below the 100 mark. An additional water samples was obtained; WS9 #35600 laboratory analyses reports indicates a level of ~~69~~ *non-detect for TPH* ppm. This tank bed can now be considered a "clean closure".

Tank#3 - Two samples were obtained from beneath this tank, tph levels were below standard.

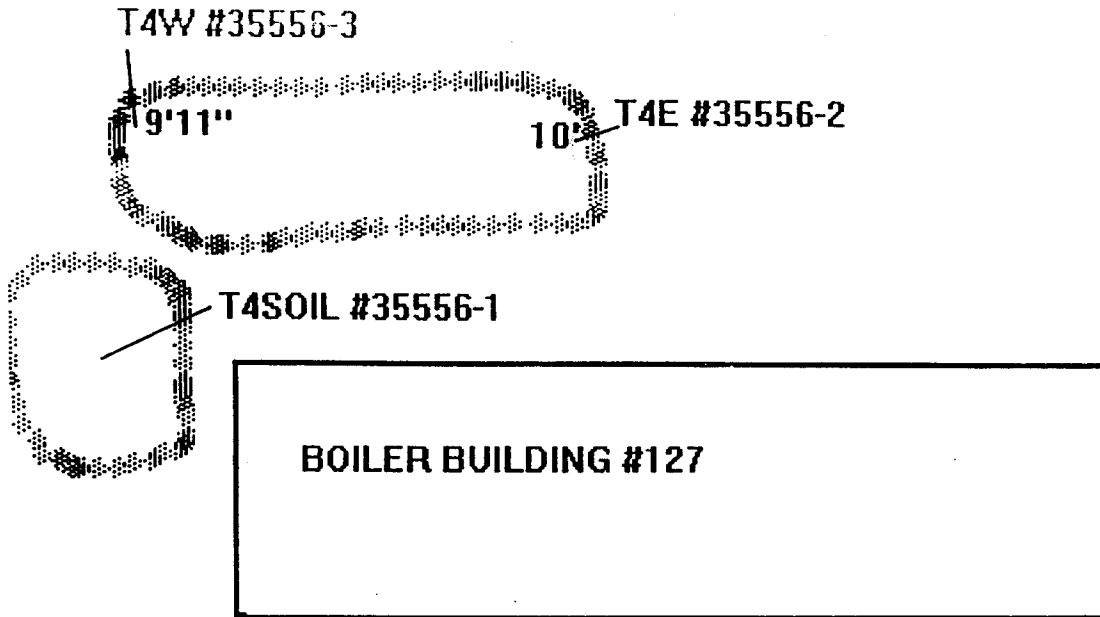


Tank 4

Boiler Building # 127



TANK #4



Tank #4

Upon removal of tank from this excavation, visible signs of contamination were evident. Soils excavated from the hole that contained obvious signs of contamination were stockpiled, pending analysis results.

T4Soil - Lab#35556-1 was obtained from the soils pile. Analyses results indicate contamination of these soils to be at 250 ppm. Soils were subsequently transported to Woodworth & Co. for disposal.

T4W Lab#35556-3 and T4E Lab#35556-2, analyses of these soil samples indicate that contamination has been remediated from within this zone. This excavation can be considered a "clean closure".



Tank 5

Administration
Building #55

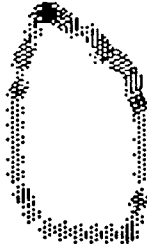


TANK #5

T5N #101-17



T5S #101-19



**T5PILE
#101-26**

ADMIN.

BLDG #55

Tank #5

Upon removal of tank from this excavation soils were stockpiled to the side while awaiting lab results.

Lab reports indicated that all three samples obtained from this site were well below clean-up levels. Consequently the soils excavated were used for backfilling.



ORION LABORATORIES

5007 PACIFIC HWY. EAST, SUITE C-6
 FIFE, WASHINGTON 98424
 (206) 922-9008

SINCE 1913



CHAIN OF CUSTODY ORDER FOR ANALYSIS

Client: NW Construction

Work Order/Report# 93-604

Address: _____

Contact Person: Daryl Becker

Battle Ground, WA

Date Received: 10-1-93

Phone Number: _____

Project: Soil-Naval Reserve

SAMPLES SUBMITTED

SAMPLE ID	MATRIX	LAB #	ANALYSIS REQUESTED	NOTES	RESULTS
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***LAB USE ONLY**

T2S	Soil	101-16	TPH		1980.3 ppm
T5N		17			43.3
T2N		18			350.7
T5S		19			83.9

MATRIX: (1) Soil (2) Water (3) Air/Emissions (4) Foodstuff
 (5) Sludge (6) Oil (7) Building Material (8) Other

TURNAROUND TIME REQUESTED: _____

RELINQUISHED BY: M. Martin

PARTY RELINQUISHING
 SAMPLES AGREES TO PAY
 ALL COSTS OF TESTING.

RECEIVED BY: Orion Labs.

ANALYZED BY: SM Wagner

DATE: _____





ORION LABORATORIES

5007 PACIFIC HWY. EAST, SUITE C-6
FIFE, WASHINGTON 98424
(206) 922-9008



October 6, 1993

CLIENT: NW Construction
ATTN: Darryl Becker
Battle Ground, WA 98604

REPORT #: 93604

PROJECT: TPH in
soil-Naval Reserve Ctr.

SAMPLE ID:	T2S	T5N	T2N	T5S
LAB NUMBER:	101-16	101-17	101-18	101-19
Total Petroleum Hydrocarbons	1,980.3	43.3	350.7	83.9

BY:

MJ Martin

Michael J. Martin
Laboratory Director
Member: AOAC, ACS, AIHA

Reported in mg/kg
(ppm) unless
otherwise noted.





ORION LABORATORIES

5007 PACIFIC HWY. EAST, SUITE C-6
FIFE, WASHINGTON 98424
(206) 922-9008



October 6, 1993

CLIENT: NW Construction
ATTN: Darryl Becker
Battle Ground, WA 98604

REPORT #: 93604

PROJECT: TPH in
soil-Naval Reserve Ctr.

SAMPLE ID:	T2S	T5N	T2N	T5S
LAB NUMBER:	101-16	101-17	101-18	101-19
Total Petroleum Hydrocarbons	1,980.3	43.3	350.7	83.9

BY:

MJ Martin

Michael J. Martin
Laboratory Director
Member: AOAC, ACS, AIHA

Reported in mg/kg
(ppm) unless
otherwise noted.





ORION LABORATORIES

5007 PACIFIC HWY. EAST, SUITE C-6
FIFE, WASHINGTON 98424
(206) 922-9008



October 5, 1993

CLIENT: Northwest Construction
ATTN: Bob Veatch
Battle Ground, WA 98604

REPORT #: 93-604

PROJECT: Navy
Reserve Center,
Tacoma

SAMPLE ID:	T-5 Pile	TIXS	T3S	T2N	T2S
LAB NUMBER:	101-26	101-27	101-28	101-29	101-30
GAS	N/D	N/D	N/D	N/D	N/D
DIESEL	N/D	N/D	N/D	N/D	N/D

WTPH-HCID METHOD FOR SCREENING.

BY: *MJ Martin*

Michael J. Martin
Laboratory Director
Member: AOAC, ACS, AIHA

Reported in mg/kg
(ppm) unless
otherwise noted.



October 5, 1993

CLIENT: Northwest Construction
ATTN: Bob Veatch
Battle Ground, WA 98604

REPORT #: 93-604

PROJECT: Navy
Reserve Center,
Tacoma

SAMPLE ID:	TIXN	T3N	WP-1
LAB NUMBER:	101-31	101-32	101-33
GAS	N/D	N/D	----
DIESEL	N/D	N/D	485.3

WTPH-HCID METHOD FOR SCREENING.

BY: *MS Martin*

Michael J. Martin
Laboratory Director
Member: AOAC, ACS, AIHA

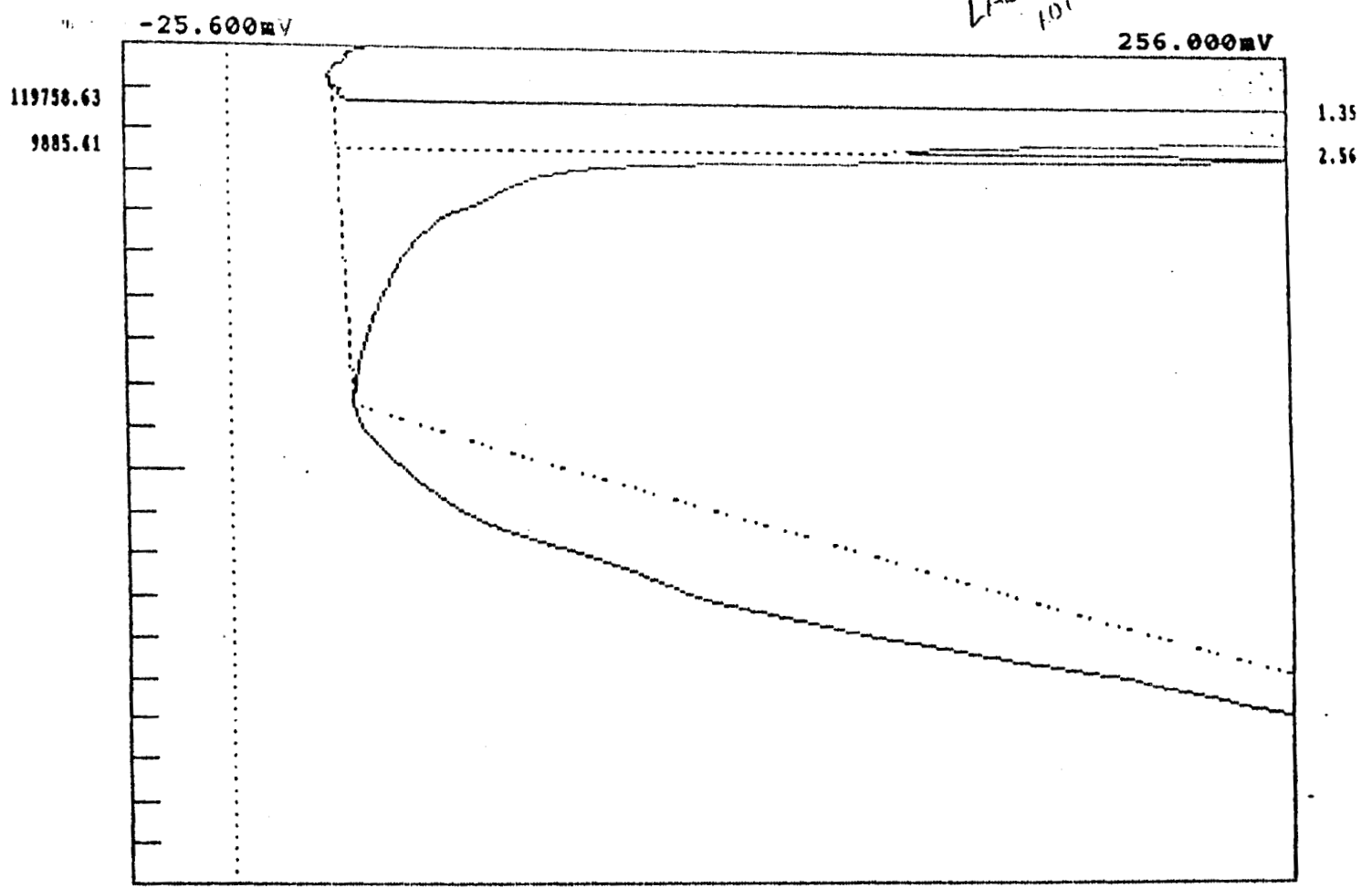
Reported in mg/kg
(ppm) unless
otherwise noted.



Operator : MJ MARTIN/LAB DIRECTOR
Description : FID DETECTOR
Conditions : TIXN/NW CONST/NAVY RESERVE/TACOMA
File : DATA2.CHR
Temperature : 8015.TEM
Components :
Date : 09/28/1993
Time : 11:09:35

TIXN

LAB # 101-31

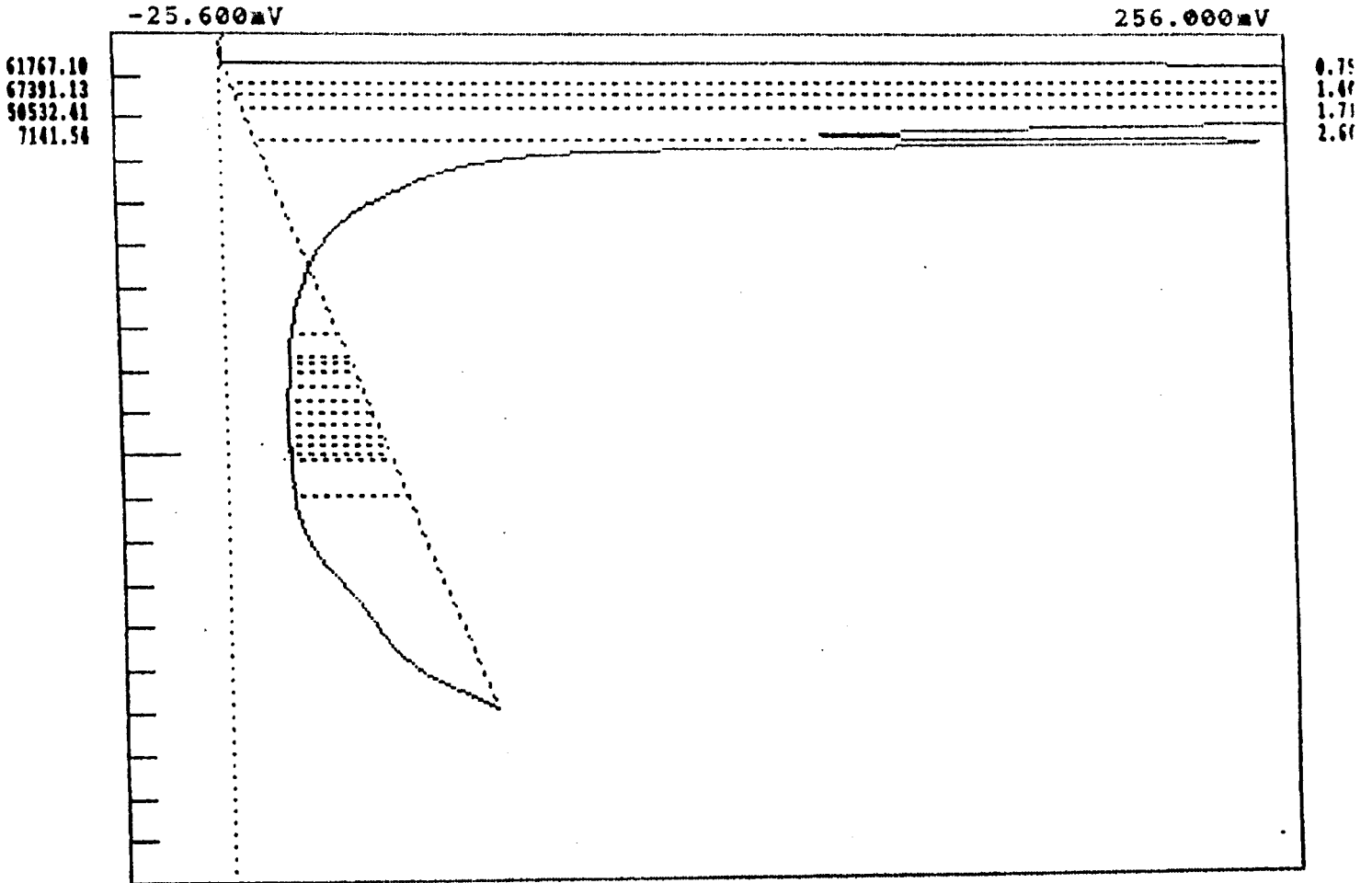


Component	Retention	Height	Area	Area %	External	Units
	1.350	3250.095	119758.63	92.37	N/A	
	2.566	263.811	9885.41	7.63	N/A	
2			129644.04	100.00	0.00	



Operator : MJ MARTIN/LAB DIRECTOR
 Description : FID DETECTOR
 Conditions : T-5 PILE/NW CONSTRUCTION/RESERVE CTR. TACOMA
 File : DATA1.CHR
 Temperature : 8015.TEM
 Components :
 Date : 09/28/1993
 Time : 15:06:58

T-5 pile
 LAB # 101-26

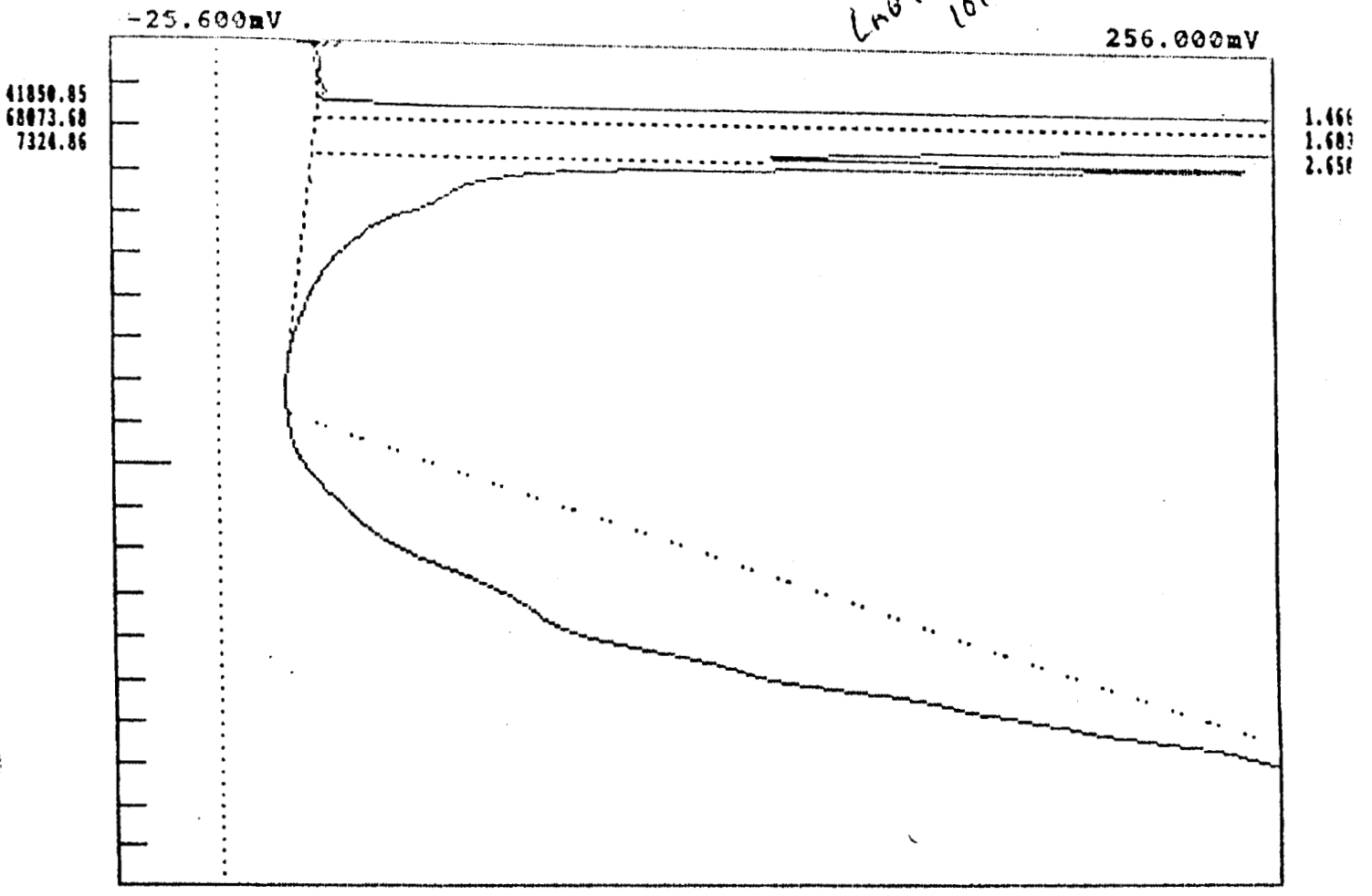


Component	Retention	Height	Area	Area %	External	Units
	0.750	3279.897	61767.10	26.58	N/A	
	1.050	3278.651	13113.33	5.64	N/A	
	1.116	3278.374	32411.85	13.95	N/A	
	1.400	3277.197	67391.13	29.00	N/A	
	1.716	3274.881	50532.41	21.75	N/A	
	2.600	259.110	7141.54	3.07	N/A	
6			232357.36	100.00	0.00	



File : DATA2.CHR
 Temperature : 8015.TEM
 Components :
 Date : 09/28/1993
 Time : 11:37:24

T28
 LMSH
 101-30

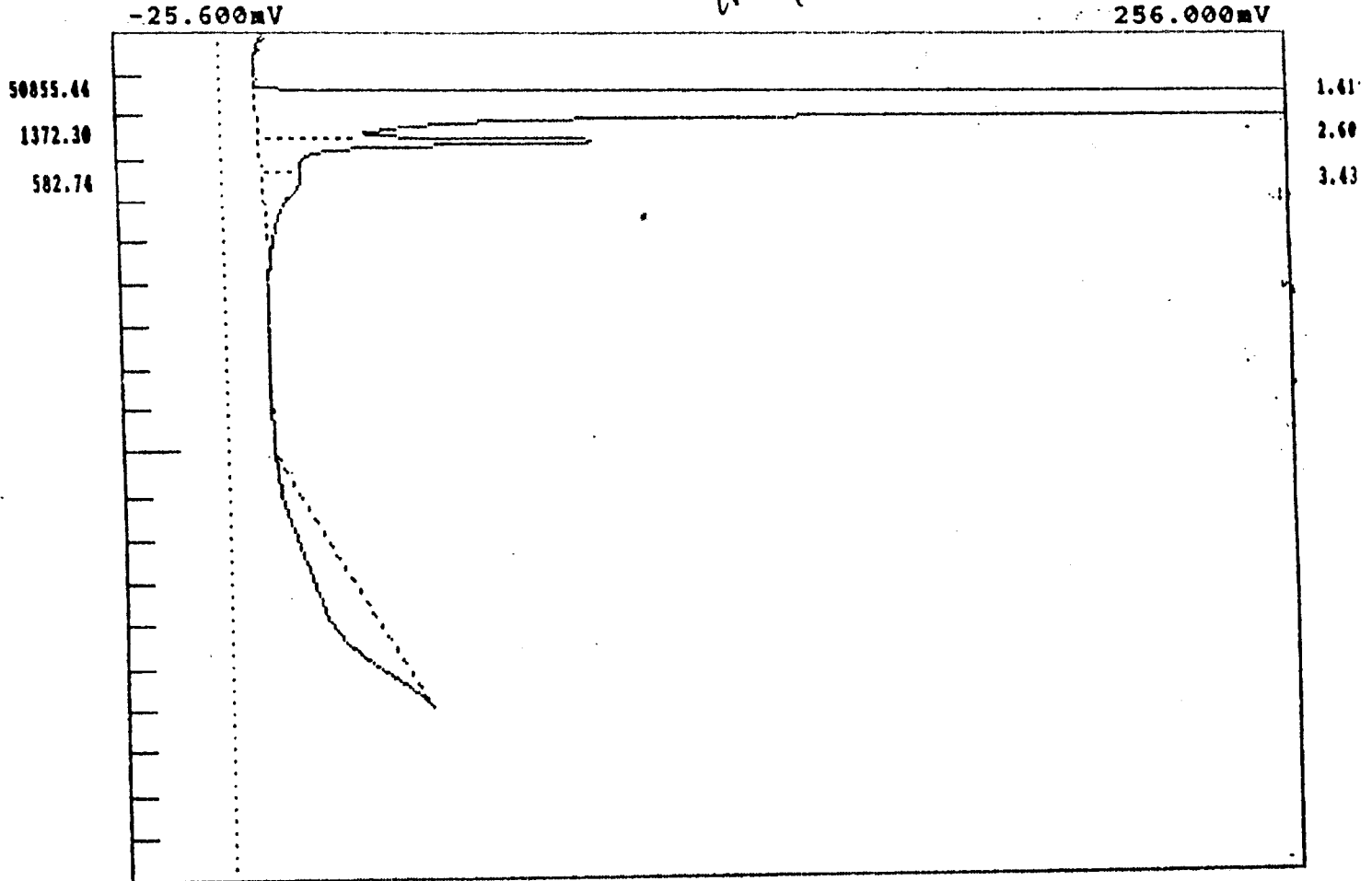


Component	Retention	Height	Area	Area %	External	Units
	1.466	3251.153	41850.85	35.69	N/A	
	1.683	3251.433	68073.68	58.06	N/A	
	2.650	232.382	7324.86	6.25	N/A	
3			117249.38	100.00	0.00	



Operator : MJ MARTIN/LAB DIRECTOR
 Description : FID DETECTOR
 Conditions : T3N/NW CONSTRUCTION/RESERVE CTR, TACOMA
 File : DATA1.CHR
 Temperature : 8015.THM
 Components :
 Date : 09/28/1993
 Time : 14:13:40

T3N
 LAB# 101-32



Component	Retention	Height	Area	Area %	External	Units
	1.416	1676.464	50855.44	96.30	N/A	
	2.600	89.233	1372.30	2.60	N/A	
	3.433	9.527	582.74	1.10	N/A	
3			52810.48	100.00	0.00	

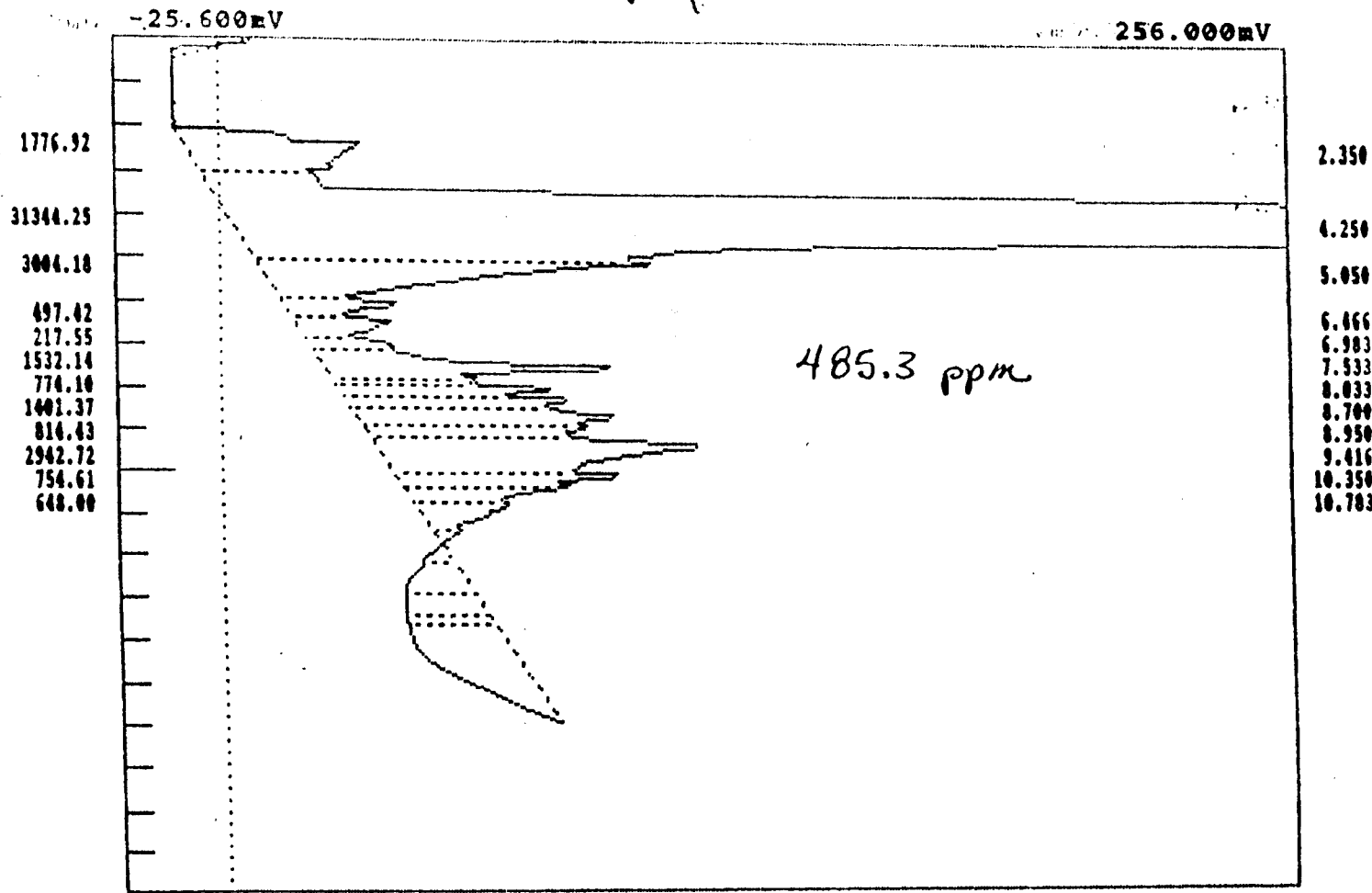
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 Date : 09/28/1993
 Time : 14:40:43

HPD : DATA0 : 0000
 HPD : DATA1 : 0000
 HPD : DATA2 : 0000
 HPD : DATA3 : 0000
 HPD : DATA4 : 0000
 HPD : DATA5 : 0000

WP-1
 LAEM
 101-33



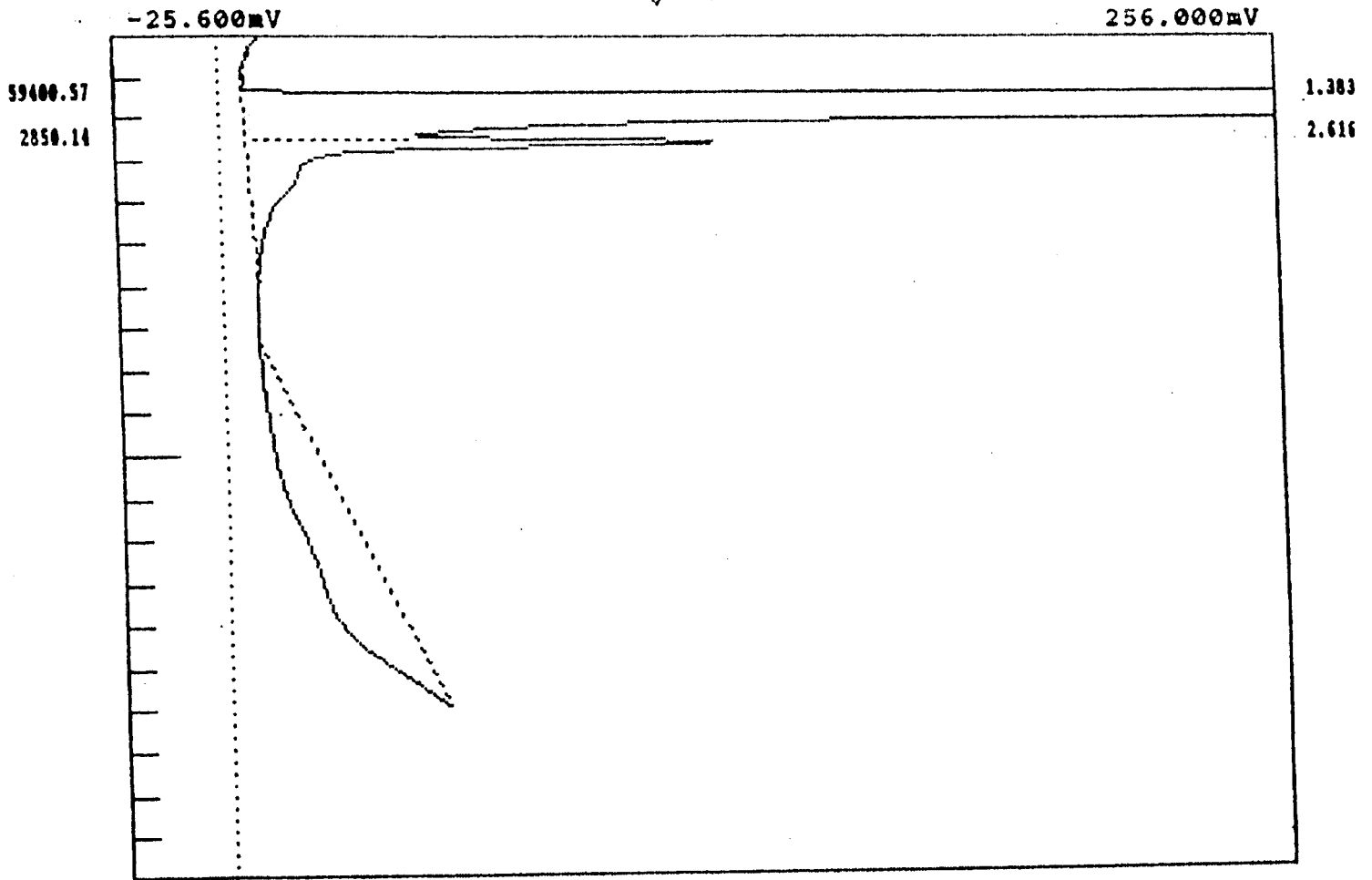
Component Retention Time Height Area Area% External Units

Component	Retention Time	Height	Area	Area%	External Units
	2.350	43.298	1776.92	3.69	N/A
	4.250	745.655	31344.25	65.15	N/A
	5.050	96.095	3004.18	6.24	N/A
	6.066	28.409	501.37	1.04	N/A
	6.466	23.279	497.42	1.03	N/A
	6.908	19.582	217.55	0.45	N/A
	7.533	72.965	1532.14	3.18	N/A
	7.800	35.812	336.51	0.70	N/A
	8.033	51.678	774.10	1.61	N/A
	8.300	54.524	725.63	1.51	N/A
	8.700	62.494	1401.37	2.91	N/A
	8.950	53.650	814.43	1.69	N/A
	9.416	78.281	2942.72	6.12	N/A
	10.100	54.788	843.13	1.75	N/A
	10.350	40.244	754.61	1.57	N/A
	10.783	22.295	648.00	1.35	N/A



Operator : MJ MARTIN/LAB DIRECTOR
 Description : FID DETECTOR
 Conditions : T3S/NW CONST/NAVY RESERVE/TACOMA
 File : DATA2.CHR
 Temperature : HCID.TEM
 Components :
 Date : 09/28/1993
 Time : 13:08:02

T3S
 LAB # 101-28

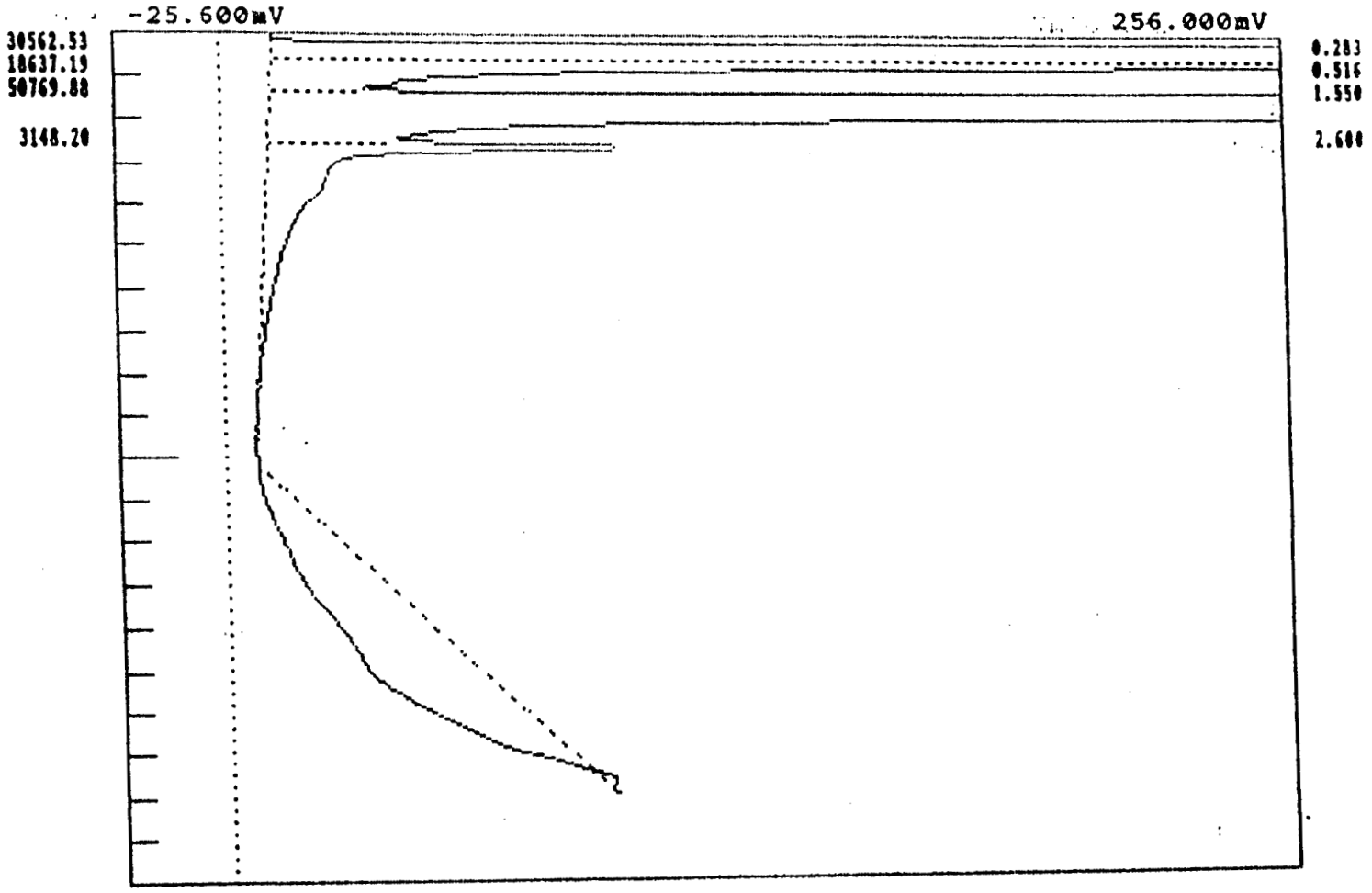


Component	Retention	Height	Area	Area %	External	Units
	1.383	1679.074	59400.57	95.42	N/A	
	2.616	117.248	2850.14	4.58	N/A	
2			62250.71	100.00	0.00	



Operator : MJ MARTIN/LAB DIRECTOR
 Description : FID DETECTOR
 Conditions : T2N/NW CONST/NAVY RESERVE/TACOMA
 File : DATA2.CHR
 Temperature : HCID.TEM
 Components :
 Date : 09/28/1993
 Time : 12:05:29

T2N
 1A34M
 101-29



Component	Retention	Height	Area	Area%	External	Units
	0.283	1672.167	30562.53	29.64	N/A	
	0.516	1672.302	18637.19	18.07	N/A	
	1.550	1672.901	50769.88	49.23	N/A	
	2.600	92.609	3148.20	3.05	N/A	
			103117.79	100.00	0.00	



SOUND ANALYTICAL SERVICES, INC.

N. W. Construction
Project: Naval Reserve
Page 2 of 8
Lab No. 35557
October 22, 1993

Lab Sample No. 35557-1

Client ID: Bldg 51-1

WTPH-D
Date Extracted: 10-20-93
Date Analyzed: 10-21-93

<u>Parameter</u>	<u>Concentration, mg/kg</u>	<u>PQL</u>	<u>Flag</u>
Diesel (> C12 - C24)	190	25	X1

SURROGATE RECOVERY, %

o-terphenyl	70
-------------	----

X1 - Aged or degraded diesel
PQL - Practical Quantitation Limit

WTPH-418.1 Modified
Date Extracted: 10-20-93
Date Analyzed: 10-21-93

<u>Parameter</u>	<u>Concentration, mg/kg</u>
Heavy petroleum oils (C24+)	350

Continued . . .

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: N. W. Construction

Date: October 21, 1993

Report On: Analysis of Soil

Lab No.: 35557

Page 1 of 8

IDENTIFICATION:

Samples received on 10-15-93

Project: Naval Reserve Center

ANALYSIS:

Lab Sample No. 35557-1

Client ID: Bldg 51-1

WTPH-HCID

Date Extracted: 10-15-93

Date Analyzed: 10-16-93

<u>Parameters</u>	<u>Concentration, mg/kg</u>	<u>Flag</u>
Gasoline (C7 - C12)	< 20	
Diesel (> C12 - C24)	> 50	
Heavy Oil (C24+)	> 100	

SURROGATE RECOVERY, %

1-chlorooctane	85
o-terphenyl	83

Continued . . .

SOUND ANALYTICAL SERVICES, INC.

N. W. Construction
Project: Naval Reserve
Page 4 of 8
Lab No. 35557
October 22, 1993

Lab Sample No. 35557-2

Client ID: Bldg 51-2

WTPH-D
Date Extracted: 10-20-93
Date Analyzed: 10-21-93

<u>Parameter</u>	<u>Concentration, mg/kg</u>	<u>PQL</u>	<u>Flag</u>
Diesel (> C12-C24)	680	25	

SURROGATE RECOVERY, %

o-terphenyl	60
-------------	----

PQL - Practical Quantitation Limit

WTPH-418.1 Modified
Date Extracted: 10-20-93
Date Analyzed: 10-21-93

<u>Parameter</u>	<u>Concentration, mg/kg</u>
Heavy petroleum oils (C24+)	650

Continued . . .

SOUND ANALYTICAL SERVICES, INC.

N. W. Construction
Project: Naval Reserve
Page 3 of 8
Lab No. 35557
October 22, 1993

Lab Sample No. 35557-2

Client ID: Bldg 51-2

WTPH-HCID

Date Extracted: 10-15-93

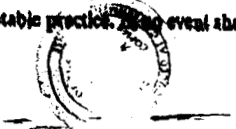
Date Analyzed: 10-16-93

<u>Parameters</u>	<u>Concentration, mg/kg</u>	<u>Flag</u>
Gasoline (C7 - C12)	< 20	
Diesel (> C12 - C24)	> 50	
Heavy Oil (C24+)	> 100	

SURROGATE RECOVERY, %

1-chlorooctane	85
o-terphenyl	87

Continued . . .



SOUND ANALYTICAL SERVICES, INC.

N. W. Construction
Project: Naval Reserve
Page 5 of 8
Lab No. 35557
October 22, 1993

Lab Sample No. 35557-3

Client ID: Bldg 51-3

WTPH-HCID

Date Extracted: 10-15-93

Date Analyzed: 10-16-93

<u>Parameters</u>	<u>Concentration, mg/kgkg</u>	<u>Flag</u>
Gasoline (C7 - C12)	< 20	
Diesel (> C12 - C24)	> 50	
Heavy Oil (C24+)	> 100	

SURROGATE RECOVERY, %

1-chlorooctane	88
o-terphenyl	88

Continued . . .

SOUND ANALYTICAL SERVICES, INC.

N. W. Construction
Project: Naval Reserve
Page 6 of 8
Lab No. 35557
October 22, 1993

Lab Sample No. 35557-3

Client ID: Bldg 51-3

WTPH-D
Date Extracted: 10-20-93
Date Analyzed: 10-21-93

<u>Parameter</u>	<u>Concentration, mg/kg</u>	<u>PQL</u>	<u>Flag</u>
Diesel (> C12 - C24)	480	25	

SURROGATE RECOVERY, %

o-terphenyl	65
-------------	----

PQL - Practical Quantitation Limit

WTPH-418.1 Modified
Date Extracted: 10-20-93
Date Analyzed: 10-21-93

<u>Parameter</u>	<u>Concentration, mg/kg</u>
Heavy petroleum oils (C24+)	1,100

Continued . . .

SOUND ANALYTICAL SERVICES, INC.

N. W. Construction
Project: Naval Reserve
Page 8 of 8
Lab No. 35557
October 22, 1993

Lab Sample No. 35557-5

Client ID: T-2 North Resample

WTPH-HCID

Date Extracted: 10-15-93

Date Analyzed: 10-16-93

<u>Parameters</u>	<u>Concentration, mg/kgkg</u>	<u>Flag</u>
Gasoline (C7 - C12)	< 20	
Diesel (> C12 - C24)	< 50	
Heavy Oil (C24+)	< 100	

SURROGATE RECOVERY, %

1-chlorooctane	80
o-terphenyl	91

SOUND ANALYTICAL SERVICES, INC.

N. W. Construction
Project: Naval Reserve
Page 7 of 8
Lab No. 35557
October 22, 1993

Lab Sample No. 35557-4

Client ID: South T-2 Resample

WTPH-HCID
Date Extracted: 10-15-93
Date Analyzed: 10-16-93

<u>Parameters</u>	<u>Concentration, mg/kgkg</u>	<u>Flag</u>
Gasoline (C7-C12)	< 20	
Diesel (> C12-C24)	< 50	
Heavy Oil (C24+)	< 100	

SURROGATE RECOVERY, %

1-chlorooctane	84
o-terphenyl	87

Continued . . .

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-HCID

Client: N.W. Construction
Lab No: 35557qc1
Units: mg/kg
Date: October 22, 1993

METHOD BLANK

Blank No. 030F0701.D

Parameter	Result	Flags
Gasoline (C ₇ -C ₁₂)	< 20	
Diesel (>C ₁₂ -C ₂₄)	< 50	
Heavy Petroleum Oil (C ₂₄ ⁺)	< 100	
<u>SURROGATE RECOVERY, %</u>		
1-chlorooctane	85	
o-terphenyl	91	

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-D (Diesel Range Organics)

Client: N.W. Construction
Lab No: 35557qc2
Units: mg/kg
Date: October 22, 1993

METHOD BLANK

Blank No. 003F0101.D

Parameter	Result	PQL
Diesel	ND	25
SURROGATE RECOVERY, % o-terphenyl	74	

ND - Not Detected

PQL - Practical Quantitation Limit

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-418.1 Modified
Heavy Petroleum Oils (C24+)

Client: N.W. Construction
Lab No: 35557qc3
Units: mg/kg
Date: October 22, 1993

METHOD BLANK

Parameter	Result
TPH	< 100



SOUND ANALYTICAL SERVICES, INC.

ANALYTICAL & ENVIRONMENTAL CHEMISTS

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

UST PARAMETERS CHAIN OF CUSTODY / REQUEST FOR LABORATORY ANALYSIS

CLIENT: N.W. CONSTRUCTION

ANALYSIS REQUESTED: Specify State _____

PROJECT NAME: NAVAL RESERVE
PERMIT

CONTACT: Jim Veach

PHONE NO: 206 687 2040
fax 206 687 0333

LAB #	SAMPLE I.D.	DATE	TIME	MATRIX	# of Containers	HClD	TPH-G	TPH-D	TPH 418.1	BTEX	TPH-G / BTEX	TPH 8015M	Total Lead	TCLP Lead	PCB's	PAH's	Phenols	Halogenated Volatiles EPA 601/6010	Aromatic Volatiles EPA 602/6020	Volatile Organics EPA 624/6240 GC/MS	Semi-volatiles EPA 625/6270 GC/MS	Metals	Total Halogens				CLOSURE DELIVERABLES	
	<u>B1951-2</u>	<u>10/15</u>	<u>1346</u>	<u>Soil</u>	<u>1</u>	<u>X</u>																						
	<u>-2</u>	<u>10/15</u>	<u>1347</u>	<u>Soil</u>	<u>1</u>	<u>X</u>																						
	<u>-3</u>	<u>10/15</u>	<u>1348</u>	<u>Soil</u>	<u>1</u>	<u>X</u>																						
	<u>South</u>	<u>10/15</u>	<u>1338</u>	<u>Soil</u>	<u>1</u>	<u>X</u>																						
	<u>T2 - 13 sample</u>																											
	<u>T-2 North</u>	<u>10/15</u>	<u>1144</u>	<u>Soil</u>	<u>1</u>	<u>X</u>																						
	<u>16 sample</u>																											

Soil
pile

	Signature	Printed Name	Firm	Time / Date
Relinquished By	<u>[Signature]</u>	<u>James C. Veach</u>	<u>N.W. CONST.</u>	<u>1428 / 10/15</u>
Received By	<u>[Signature]</u>	<u>Jim Veach</u>	<u>SAS</u>	<u>10/15/93 2:25 pm</u>
Relinquished By				
Received By				
Relinquished By				
Received By				

SPECIAL INSTRUCTIONS/COMMENTS:

PUSH
24 HR

Hold for new will
follow up testing

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: N. W. Construction

Date: October 21, 1993

Report On: Analysis of Soil

Lab No.: 35556

Page 1 of 3

IDENTIFICATION:

Samples received on 10-15-93

Project: Naval Reserve Center UST Removal Reserve

ANALYSIS:

Lab Sample No. 35556-1

Client ID: T-4 Soil Pile

WTPH-HCID

Date Extracted: 10-15-93

Date Analyzed: 10-15-93

<u>Parameters</u>	<u>Concentration, mg/kg</u>	<u>Flag</u>
Gasoline (C7 - C12)	< 20	
Diesel (> C12 - C24)	< 50	
Heavy Oil (C24+)	> 100	

SURROGATE RECOVERY, %

1-chlorooctane	80
o-terphenyl	88

WTPH-418.1 Modified

Date Extracted: 10-20-93

Date Analyzed: 10-21-93

<u>Parameter</u>	<u>Concentration, mg/kg</u>
Heavy petroleum oils (C24+)	250

Continued . . .

SOUND ANALYTICAL SERVICES, INC.



N. W. Construction
Project: Naval Reserve
Page 2 of 3
Lab No. 35556
October 21, 1993

Lab Sample No. 35556-2

Client ID: T-4 East

WTPH-HCID
Date Extracted: 10-15-93
Date Analyzed: 10-16-93

<u>Parameters</u>	<u>Concentration, mg/kg</u>	<u>Flag</u>
Gasoline (C7 - C12)	< 20	
Diesel (> C12 - C24)	< 50	
Heavy Oil (C24+)	> 100	

SURROGATE RECOVERY, %

1-chlorooctane	81
o-terphenyl	86

WTPH-418.1 Modified
Date Extracted: 10-20-93
Date Analyzed: 10-21-93

<u>Parameter</u>	<u>Concentration, mg/kg</u>
Heavy petroleum oils (C24+)	< 100

Continued . . .

SOUND ANALYTICAL SERVICES, INC.



N. W. Construction
Project: Naval Reserve
Page 3 of 3
Lab No. 35556
October 21, 1993

Lab Sample No. 35556-3

Client ID: T-4 West

WTPH-HCID
Date Extracted: 10-15-93
Date Analyzed: 10-16-93

<u>Parameters</u>	<u>Concentration, mg/kg</u>	<u>Flag</u>
Gasoline (C7 - C12)	< 20	
Diesel (> C12 - C24)	< 50	
Heavy Oil (C24+)	< 100	

SURROGATE RECOVERY, %

1-chlorooctane	84
o-terphenyl	89

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-HCID

Client: N. W. Construction
Lab No: 35556qcl
Matrix: Soil
Units: mg/kg
Date: October 21, 1993

DUPLICATES

Dup No. 35556-3

Parameter	Sample (S)	Duplicate (D)	RPD	Flags
Gasoline (C ₇ -C ₁₂)	< 20	< 20	N/C	
Diesel (>C ₁₂ -C ₂₄)	< 50	< 50	N/C	
Heavy Petroleum Oil (C ₂₄ ⁺)	< 100	< 100	N/C	
<u>SURROGATE RECOVERY, %</u> 1-chlorooctane	84	91		
o-terphenyl	89	90		

N/C - Not Calculated

RPD = Relative Percent Difference

$$= [(S - D) / ((S + D) / 2)] \times 100$$

METHOD BLANK

Blank No. 030F0701.D

Parameter	Result	Flags
Gasoline (C ₇ -C ₁₂)	< 20	
Diesel (<C ₁₂ -C ₂₄)	< 50	
Heavy Petroleum Oil (C ₂₄ ⁺)	< 100	
<u>SURROGATE RECOVERY, %</u> 1-chlorooctane	85	
o-terphenyl	91	

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

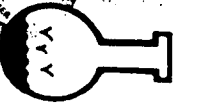
QUALITY CONTROL REPORT

WTPH-418.1 Modified
Heavy Petroleum Oils (C24+)

Client: N. W. Construction
Lab No: 35556qc2
Units: mg/kg
Date: October 21, 1993

METHOD BLANK

Parameter	Result
TPH	< 100



SOUND ANALYTICAL SERVICES, INC.

ANALYTICAL & ENVIRONMENTAL CHEMISTS

UST PARAMETERS

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

CHAIN OF CUSTODY / REQUEST FOR LABORATORY ANALYSIS

CLIENT: *NAARI ROAD CENTER* ANALYSIS REQUESTED: *Specify State*

PROJECT NAME: *UST NORMAN*
No sample

CONTACT: *TM VERLEN*

PHONE NO: *(306) 677-3040*
13A (206) 1087-6332

LAB #	SAMPLE I.D.	DATE	TIME	MATRIX	# of Containers	HClD	TPH-G	TPH-D	TPH 418.1	BTEX	TPH-G / BTEX	TPH 8015M	Total Lead	TCLP Lead	PCB's	PAH's	Phenols	Halogenated Volatiles EPA 601/6010	Aromatic Volatiles EPA 602/6020	Volatile Organics EPA 624/6240 GC/MS	Semi-volatiles EPA 625/6270 GC/MS	Metals	Total Halogens	CLOSURE DELIVERABLES	
	T-4	9/28	4:25	S	1	X																			
	T-4	9/28	4:25	S	1	X																			
	T-4	9/28	4:20	S	1	X																			
	T-2	11/24	9:45	S	1																				
	T-4	9/28	4:25	S	1	X																			

SPECIAL INSTRUCTIONS/COMMENTS:

*Hold for possible
Future testing*

RUSH 24 Hr

Signature	Printed Name	Firm	Time / Date
<i>[Signature]</i>	<i>Troy R. Vard</i>	<i>W.C. Const</i>	<i>10/11 10/15</i>
<i>[Signature]</i>	<i>Tony Eskmi</i>	<i>SAS</i>	<i>10/5/93 2:30pm</i>
Relinquished By			
Received By			
Relinquished By			
Received By			
Relinquished By			
Received By			

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: NW Construction

Date: October 21, 1993

Report On: Analysis of Water

Lab No.: 35600

IDENTIFICATION:

Sample received on 10-19-93

Project: UST Removal Reserve Cntr-Tac

ANALYSIS:

Lab Sample No. 35600-1

Client ID: WS-9

WTPH-D

Date Extracted: 10-20-93

Date Analyzed: 10-20-93

<u>Parameter</u>	<u>Concentration, mg/L</u>	<u>PQL</u>	<u>Flag</u>
Diesel (> C12 - C24)	ND	5.6	

SURROGATE RECOVERY, %

o-terphenyl 69

ND - Not Detected

PQL - Practical Quantitation Limit

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-D (Diesel Range Organics)

Client: NW Construction
Lab No: 35600qc
Units: mg/L
Date: October 21, 1993

METHOD BLANK

Blank No. 030F0101.D

Parameter	Result	PQL
Diesel	ND	0.25
SURROGATE RECOVERY, % o-terphenyl	68	

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

NW Construction

UST PARAMETERS

CHAIN OF CUSTODY / REQUEST FOR LABORATORY ANALYSIS

CLIENT: NAVY
PROJECT NAME: UST REMOVAL
RESERVE CNTR - TACOMA
CONTACT: J. VEACH
PHONE NO: 206-687-2040

ANALYSIS REQUESTED: Specify State _____

LAB #	SAMPLE I.D.	DATE	TIME	MATRIX	# of Containers	TPH-G	TPH-D	TPH 418.1	BTEX	TPH-G / BTEX	TPH 8015M	Total Lead	TCLP Lead	PCB's	PAH's	Phenols	Halogenated Volatiles EPA 601/8010	Aromatic Volatiles EPA 602/8020	Volatile Organics EPA 624/8240 GC/MS	Semi-volatiles EPA 625/8270 GC/MS	Metals	Total Halogens	CLOSURE DELIVERABLES
	WS-8	10/19	11:45	H2O	1	X	X																XXXX
	WS-9	10/19	11:51	H2O	1		X																
	WS-8	10/19	11:49	WATER	1	X																	Hand
	WS-9	10/19	11:51	WATER	1		X																

	Signature	Printed Name	Firm	Time / Date
Relinquished By		James Veach	NW CONSTRUCTION	12:40 10/19
Received By		D. NGUYEN	SAS	12:40 10/19
Relinquished By				
Received By				
Relinquished By				
Received By				

SPECIAL INSTRUCTIONS/COMMENTS:





APPENDIX C



Petroleum Reclaiming Service, Inc.

3003 Taylor Way, Tacoma, Washington 98421
(206) 383-4474 (206) 383-4175 (206) 587-6206 Seattle Number

WASTE RECEIPT

No. 09334

to: U.S. NAVY RESERVE (OEPA) D. #
Address: 1100 E ALPHEUS ST TACOMA WA 98412
Porter: 1140 Construction Inc. EPA I.D. #
Address: 22317 N.E. 22nd Ave. Battle Ground WA 98604
to: Plot (OEPA) - 1040

Receipt _____
P.O. # _____
Manifest # _____
Date: 10/17/93

NET: 10 DAYS FROM DATE OF INVOICE

GALLONS	DESCRIPTION	UNIT PRICE	AMOUNT
2800	waste H ₂ O/oil		

Comments: _____

pH 6

Flash > 140 Pos Neg

Chlorides 0.250 Pos Neg

B S & W 99% Pos Neg

Destination TRAIL

Operator: [Signature]

OTHER COMPONENTS - TOTAL (PPM)

CYANIDES _____ PCB'S _____
SULFIDES _____ PHENOLICS _____

G HAZARDOUS CHARACTERISTICS

REACTIVITY: NONE PYROPHORIC SHOCK SENSITIVE
 EXPLOSIVE WATER REACTIVE OTHER _____

OTHER HAZARDOUS CHARACTERISTICS:
 NONE RADIOACTIVE ETIOLOGICAL
 PESTICIDE MANUFACTURING WASTE OTHER _____

USEPA HAZARDOUS WASTE? YES NO
 USEPA HAZARDOUS CODE(S) _____
 STATE HAZARDOUS WASTE? YES NO
 STATE CODE(S) _____

SHIPPING INFORMATION

HAZARDOUS MATERIAL? YES NO

SHIPPER'S NAME: _____

SHIP CLASS: _____ ID. NO.: _____ R.O.: _____

MODE OF SHIPMENT: BULK LIQUID BULK SOLID
 DRUM (TYPE/SIZE) _____

QUANTITY: 2800 GALS. _____ CUBIC YARDS _____
 OTHER: _____

PERIOD: ONE TIME WEEK MONTH
 QUARTER YEAR _____

SPECIAL HANDLING INFORMATION NONE

STATEMENT: I HEREBY CERTIFY THAT ALL INFORMATION SUBMITTED IN THIS AND ALL ATTACHED DOCUMENTS IS COMPLETE AND ACCURATE, AND THAT ALL KNOWN OR SUSPECTED HAZARDS HAVE BEEN IDENTIFIED.

SIGNATURE: [Signature] TITLE: PROJECT ADMINISTRATOR DATE: 10/19/93

ADDITIONAL PAGE(S) ATTACHED



Petroleum Reclaiming Service, Inc.
 3003 Taylor Way, Tacoma, Washington 98421
 (206) 383-4474 (206) 383-4175 (206) 587-6206 Seattle Number

WASTE RECEIPT

NO 09337

Generator: USNI RESERVE EPA I.D. # _____
 Address: 1100 E. ALEXANDER TACOMA, WA.
 Transporter: N.W. CONSTRUCTION EPA I.D. # _____
 Address: 22317 NE 72nd AVE BATTLEGROUND, WA.
 Bill To: N.W. CONSTRUCTION 98604

Receipt # _____
 P.O. # _____
 Manifest # _____
 Date: 10/22/93

NET: 10 DAYS FROM DATE OF INVOICE

GALLONS	DESCRIPTION	UNIT PRICE	AMOUNT
2800	WASTE H ₂ O		

Comments: _____

pH 6.7
 Flash N/A Pos Neg
 Chlorides 0-250 Pos Neg
 BS & W 100% Pos Neg
 Destination 2A

Signature: Kevin [unclear] Operator: [Signature]



Petroleum Reclaiming Service, Inc.

3003 Taylor Way, Tacoma, Washington 98421
(206) 383-4474 (206) 383-4175 (206) 587-6206 Seattle Number

WASTE RECEIPT

NO 09336

Generator: DEPARTMENT OF TRANSPORTATION
Address: SPOKANE ST. SEATTLE, WA. 98108
Transporter: N.W. CONSTRUCTION
Address: 72317 NE. 72ND AVE BATTLE GROUND, WA.
Bill To: N.W. CONST.

Receipt #
P.O. #
Manifest #
Date: 10/20/93

NET: 10 DAYS FROM DATE OF INVOICE

GALLONS	DESCRIPTION	UNIT PRICE		AMOUNT
300	H ₂ O/OIL			

Comments:

Signature: [Handwritten Signature] Operator: [Handwritten Signature]

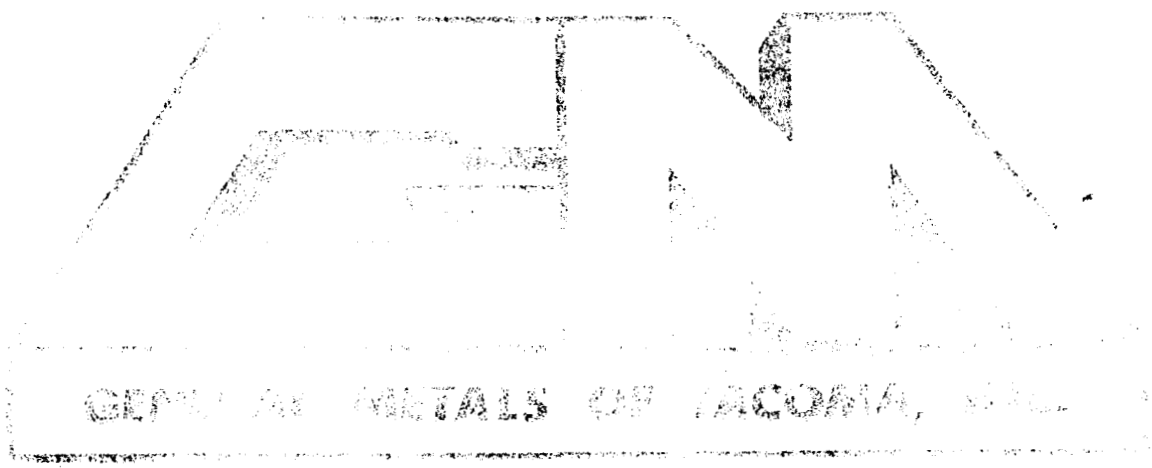
pH 6
Flash >110 Pos Neg
Chlorides 0-250 Pos Neg
BS & W 50% Pos Neg
Destination 8A

26949

NORTHWEST CONSTRUCTION		SEC NO	GROSS WT. (LB.)	DATE		
		45	54020	28 Sep 93		
CODE	MATERIAL	\$/UNIT	TARE WT. (LB.)	NET WT. (LB.)	ADJUSTED NET WT. (LB.)	AMOUNT
26	# 2 UN-PREPARED	\$44.00/NT	36960	17060	17060	375.32



27125



GENERAL METALS OF ALABAMA, INC.

N W CONSTRUCTION

SEQ. NO.	GROSS WT. (LB.)	DATE
256	49980	28 Sep 93

CODE	MATERIAL	\$/UNIT	TARE WT. (LB.)	NET WT. (LB.)	ADJUSTED NET WT. (LB.)	AMOUNT
26	# 2 UN-PREPARED	\$44.00/NT	36880	13100	13100	288.20

26931

NORTHWEST CONSTRUCTIONM		SEC NO	GROSS WT. (LB)	DATE		
		47	12320	28 Sep 93		
CODE	MATERIAL	\$/UNIT	TARE WT. (LB.)	NET WT. (LB.)	ADJUSTED NET WT. (LB.)	AMOUNT
26	# 2 UN-PREPARED	\$44.00/NT	0	12320	12320	271.04



GENERAL CONTRACTORS

WOODWORTH & COMPANY, INC.

1200 East D Street / Tacoma, Washington 98421 / Tacoma (206) 383-3585 / Seattle (206) 838-9090 / FAX 572-8648

BILL OF LADING

BILL OF LADING #: _____

DATE: 10/21/93

GENERATOR NAME/ADDRESS: <u>NAVAL Reserve CNTR</u> <u>1100 E ALEXANDER</u> <u>TACOMA WA</u> CONTACT/TEL #: <u>206-383-3577</u>		SITE OF GENERATION: STREET <u>1100 E ALEXANDER</u> TOWN <u>TACOMA</u> STATE <u>Wa.</u> TRANSPORT ACCIDENT <input type="checkbox"/> Y <input checked="" type="checkbox"/> N	
PCS (TOTAL PROJECTED QUANTITY): WT (tons) _____ VOL (cu yds) <u>250</u>		TYPE OF CONTAMINATION: <input type="checkbox"/> GASOLINE <input checked="" type="checkbox"/> DIESEL <input type="checkbox"/> WASTE OIL <input type="checkbox"/> KEROSENE <input type="checkbox"/> OTHER (specify) _____	
TRANSPORTER NAME/ADDRESS: <u>BOULEVARD EXCAVATING, INC.</u> <u>P.O. Box 66</u> <u>ABONA, WA</u> CONTACT/TEL #: <u>762-0650</u>		DESTINATION NAME/ADDRESS: WOODWORTH AND COMPANY, INC. 1200 EAST 'D' STREET TACOMA, WASHINGTON, 98421 PH: (206) 383-3585	
GENERATOR'S SIGNATURE: <u>X [Signature]</u>		DATE: <u>21 Oct 93</u>	
TRANSPORTER'S SIGNATURE: <u>[Signature]</u>		DATE: <u>21 Oct 93</u>	
MATERIALS RECEIVED AT PIT:		DATE: _____	
		QUANTITY RECEIVED: _____ TONS	
		NUMBER OF TRUCKS DELIVERING: _____	
SCALEHOUSE SIGNATURE: _____			
COMMENTS: _____			



GENERAL CONTRACTORS

WOODWORTH & COMPANY

1200 East D Street / Tacoma, Washington 98421 / Tacoma (206) 383-3585 / Seattle (206) 838-9090 / FAX 572-8648

BILL OF LADING

BILL OF LADING #: _____

DATE: 10/20/93

GENERATOR NAME/ADDRESS: <u>NAVAL/MARINE RESERVE CENTER</u> <u>1100 E ALEXANDER</u> <u>TACOMA WA.</u> CONTACT/TEL #: <u>206-383-3577</u>		SITE OF GENERATION: STREET <u>1100 E ALEXANDER</u> TOWN <u>TACOMA WA.</u> STATE <u>Washington</u> TRANSPORT ACCIDENT <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	
PCS (TOTAL PROJECTED QUANTITY): WT (tons) _____ VOL (cu yds) <u>250</u>		TYPE OF CONTAMINATION: <input type="checkbox"/> GASOLINE <input checked="" type="checkbox"/> DIESEL <input type="checkbox"/> WASTE OIL <input type="checkbox"/> KEROSENE <input type="checkbox"/> OTHER (specify) _____	
ANALYSIS ATTACHED: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO LAB NAME: _____		DESTINATION NAME/ADDRESS: <u>WOODWORTH AND COMPANY, INC.</u> <u>1200 EAST 'D' STREET</u> <u>TACOMA, WASHINGTON, 98421</u> PH: (206) 383-3585	
TRANSPORTER NAME/ADDRESS: <u>BOULEVARD EXCAVATING INC.</u> <u>P.O. Box 60</u> <u>ALGONA WA.</u> CONTACT/TEL #: <u>762-0650</u>		GENERATOR'S SIGNATURE: <u>[Signature]</u> DATE: <u>10/20/93</u> TRANSPORTER'S SIGNATURE: <u>[Signature]</u> DATE: <u>10/20/93</u>	
MATERIALS RECEIVED AT PIT: <u>Job complete</u>		DATE: <u>10.21.93</u> <u>131.94</u> <u>(CB)</u> QUANTITY RECEIVED: <u>89.33</u> <u>89.33</u> TONS NUMBER OF TRUCKS DELIVERING: <u>2</u> <u>Cathy Baughman</u>	



GENERAL CONTRACTORS

WOODWORTH & COMPANY

1200 East D Street / Tacoma, Washington 98421 / Tacoma (206) 383-3585 / Seattle (206) 838-9090 / FAX 672-8648

BILL OF LADING

BILL OF LADING #: _____

DATE: 10/20/93

GENERATOR NAME/ADDRESS: <u>NAVAL/MARINE RESERVE CENTER</u> <u>1100 E ALEXANDER</u> <u>TACOMA WA.</u>		SITE OF GENERATION: STREET <u>1100 E ALEXANDER</u> TOWN <u>TACOMA WA.</u> STATE <u>Washington</u>	
CONTACT/TEL #: <u>206-383-3577</u>		TRANSPORT ACCIDENT <input type="checkbox"/> Y <input checked="" type="checkbox"/> N	
PCS (TOTAL PROJECTED QUANTITY): WT (tons) _____		VOL (cu yds) <u>250</u>	
TYPE OF CONTAMINATION: <input type="checkbox"/> GASOLINE <input checked="" type="checkbox"/> DIESEL <input type="checkbox"/> WASTE OIL <input type="checkbox"/> KEROSENE <input type="checkbox"/> OTHER (specify) _____		ANALYSIS ATTACHED: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO LAB NAME: _____	
TRANSPORTER NAME/ADDRESS: <u>BOULEVARD EXCAVATING INC.</u> <u>PO. Box 600</u> <u>ALGONA WA.</u>		DESTINATION NAME/ADDRESS: WOODWORTH AND COMPANY, INC. 1200 EAST 'D' STREET TACOMA, WASHINGTON, 98421 PH: (206) 383-3585	
CONTACT/TEL #: <u>762-0650</u>			
GENERATOR'S SIGNATURE: <u>[Signature]</u>		DATE: <u>10/20/93</u>	
TRANSPORTER'S SIGNATURE: <u>[Signature]</u>		DATE: <u>10/20/93</u>	
MATERIALS RECEIVED AT PIT:		DATE: <u>10-20-93</u>	
		QUANTITY RECEIVED: <u>33.88</u> TONS	
		NUMBER OF TRUCKS DELIVERING: <u>2</u>	
<u>Cathy Baughman</u>			



Woodworth & Company, Inc.
GENERAL CONTRACTORS

1200 East D Street / Tacoma, Washington 98421
 Telephone (206) 383-3585

LAKEVIEW PIT TICKET

Contractors Lic. # WOODW 377NO

napa



Ticket # 11426
 Wmaster CATHY
 Sale Loc. 260
 Saletype C CUSTOMER

CAUTION: HOT ASPHALT WILL BURN YOU!

TOM BABCOCK

RECEIVED *

CUSTOMER: NW CONST. GEN CONTR 55640		PURCHASE ORDER: 1100 EAST ALEXANDER TACOMA, WA				JOB LOAD		JOB TONS	
						TOTAL	6	112.04	
						DAILY	6	112.04	
DATE	10/21/93	PLANT	SILO	JOB	PLANT	TRUCK	SEQUENCE	REFERENCE	
TIME	11:59:			260- 1		11 131			
MIXTURE		60			GROSS	TARE	NET WT. TONS	PRICE	TOTAL
165 PETRO CONTAM SOIL					79400	33980	22.71	42.50	
SPECIAL INSTRUCTIONS						45420 LB 2			
						TAX % PAY THIS AMOUNT			

CUBIC
YDC

PIT B160

REMARKS

X *Cathy* SCALE OPERATOR



Woodworth & Company, Inc.

GENERAL CONTRACTORS
1200 East D Street / Tacoma, Washington 98421
Telephone (206) 383-3585

LAKEVIEW PIT TICKET

Contractors Lic. # WOODW 377NO



Ticket # 11362
Wmaster CATHY
Sale Loc. 260
Saletype C CUSTOMER

CAUTION: HOT ASPHALT WILL BURN YOU!

TOM BABCOCK
RECEIVED *

CUSTOMER: NW CONST. GEN CONTR 55640	PURCHASE ORDER: 1100 EAST ALEXANDER TACOMA, WA	JOB LOAD	JOB TONS
		TOTAL 1	17.80
		DAILY 1	17.80

DATE	PLANT	JOB	TRUCK	SEQUENCE	REFERENCE
10/20/93		260- 1	TT 131		
TIME 15:59:					
MIXTURE	GROSS	TARE	NET WT. TONS	PRICE	TOTAL
165 PETRO CONTAM SOIL	69160	33560	17.80		

SPECIAL INSTRUCTIONS
35600 LB 2

TAX %
PAY THIS AMOUNT

CUBIC YDS
PIT B160

x Cathy
SCALE OPERATOR

REMARKS



Woodworth & Company, Inc.

GENERAL CONTRACTORS

1200 East D Street / Tacoma, Washington 98421

Telephone (206) 383-3585

LAKEVIEW PIT TICKET

Contractors Lic. # WOODW 377NO

napa



Ticket # 11377
Master CATHY
Sale Loc. 260
Saletype C CUSTOMER

CAUTION: HOT ASPHALT WILL BURN YOU!

TOM DABCOCK

RECEIVED

CUSTOMER:

NW CONST. GEN CONTR
55640

PURCHASE ORDER:

1100 EAST ALEXANDER
TACOMA, WA

JOB
LOAD

JOB
TONS

TOTAL	2	32.28
DAILY	2	32.28

DATE	PLAN	SILCO	JOB	PLANT	TRUCK	SEQUENCE	REFERENCE
10/21/93			260- 1		TT 131		
TIME	07:45:						

MIXTURE	60	GROSS	TARE	NET WT. TONS	PRICE	TOTAL
165 PETRO CONTAM SOIL		66360	33980	16.19	42.50	

SPECIAL INSTRUCTIONS

32380 LB 2

TAX %
PAY THIS AMOUNT

PIT B160

CUBIC
YDS

REMARKS

X Cathy SCALE OPERATOR



Woodworth & Company, Inc.
GENERAL CONTRACTORS

1200 East D Street / Tacoma, Washington 98421
 Telephone (206) 383-3585

LAKEVIEW PIT TICKET

Contractors Lic. # WOODW 377NO

napa



Ticket # 11394
 Wmaster CATHY
 Sale Loc. 260
 Saletype C CUSTOMER

CAUTION: HOT ASPHALT WILL BURN YOU!

TOM BABCOCK

RECEIVED *

CUSTOMER:

NW CONST. GEN CONTR
 55640

PURCHASE ORDER:

1100 EAST ALEXANDER
 TACOMA, WA

JOB
 LOAD

JOB
 TONS

TOTAL	4	69.93
DAILY	4	69.93

DATE	TIME	TRUCK	SEQUENCE	REFERENCE	
10/21/93	08:58:	11 131			
MIXTURE	GROSS	TARE	NET WT. TONS	PRICE	TOTAL
165 PETRO CONTAM BOIL	70080	33980	18.05	42.50	

SPECIAL INSTRUCTIONS

36100 LB 2

TAX %
 PAY THIS AMOUNT

CUBIC
 YDS

PIT B160

REMARKS

X

Cathy

SCALE OPERATOR



Woodworth & Company, Inc.

GENERAL CONTRACTORS

1200 East D Street / Tacoma, Washington 98421
Telephone (206) 383-3585

LAKEVIEW PIT TICKET

Contractors Lic. # WOODW 377NO

napa



Ticket # 11447
Wmaster CATHY
Sale Loc. 260
Saletype C CUSTOMER

CAUTION: HOT ASPHALT WILL BURN YOU!

TOM BABCOCK

RECEIVED

CUSTOMER:

NW CONST. GEN CONTR
55640

PURCHASE ORDER:

1100 EAST ALEXANDER
TACOMA, WA

JOB
LOAD

JOB
TONS

TOTAL	7	131.94
DAILY	7	131.94

DATE	TIME	PLANT	SILCO	JOB	PLANT	TRUCK	SEQUENCE	REFERENCE
10/21/93	14:02:			260- 1		11 131		
MIXTURE				GROSS	TARE	NET WT. TONS	PRICE	TOTAL
165 PETRO CONTAM SOIL	60			73780	33980	19.90	42.50	

SPECIAL INSTRUCTIONS

39800 LB 2

TAX %
PAY THIS AMOUNT

CUBIC
YDS

PIT B160

REMARKS

x Cathy

SCALE OPERATOR



Woodworth & Company, Inc.

GENERAL CONTRACTORS

1200 East D Street / Tacoma, Washington 98421
Telephone (206) 383-3585

LAKEVIEW PIT TICKET

Contractors Lic. # WOODW 377NO

napa



Ticket # 11393
Master CATHY
Sale Loc. 260
Saletype C CUSTOMER

CAUTION: HOT ASPHALT WILL BURN YOU!

JACK ADY
RECEIVED *

CUSTOMER: NW CONST. GEN CONTR 55640		PURCHASE ORDER: 1100 EAST ALEXANDER TACOMA, WA		JOB LOAD		JOB TONS	
				TOTAL	32	51.88	
				DAILY	3	51.88	
DATE	PLANT	SIC	JOB	PLANT	TRUCK	SEQUENCE	REFERENCE
10/21/93			260-1		TT 130		
TIME	MIXTURE		GROSS	TARE	NET WT. TONS	PRICE	TOTAL
08:52	60 - -		73060	33860	19.60	42.50	
165 PETRO CONTAM SOIL							
SPECIAL INSTRUCTIONS					TAX % PAY THIS AMOUNT		
39200 LB 2							

PIT B160

UBIC
YDS

REMARKS

x Cathy

SCALE OPERATOR



Woodworth & Company, Inc.

GENERAL CONTRACTORS

1200 East D Street / Tacoma, Washington 98421
Telephone (206) 383-3585

LAKEVIEW PIT TICKET

Contractors Lic. # WOODW 377NO



Ticket # 11363
Wmaster CATHY
Sale Loc. 260
Saletype C CUSTOMER

CAUTION: HOT ASPHALT WILL BURN YOU!

JACK ADY
RECEIVED *

CUSTOMER: NW CONST. GEN CONTR 55640		PURCHASE ORDER: 1100 EAST ALEXANDER TACOMA, WA				JOB LOAD		JOB TONS	
						TOTAL	2	33.88	
						DAILY	2	33.88	
DATE	10/20/93	PLANT	SITE	JOB	PLANT	TRUCK	SEQUENCE	REFERENCE	
TIME	16:00:			260-2		11 130			
MIXTURE	165	60	-	-	GROSS	TARE	NET WT. TONS	PRICE	TOTAL
	PETRO CONTAM SOIL				65760	33600	16.08		
SPECIAL INSTRUCTIONS						32160 LB 2			
						TAX % PAY THIS AMOUNT			

CUBIC YDS _____

PIT B160 _____

REMARKS _____

X *Cathy* _____
SCALE OPERATOR



Woodworth & Company, Inc.

GENERAL CONTRACTORS

1200 East D Street / Tacoma, Washington 98421
Telephone (206) 383-3585

LAKEVIEW PIT TICKET

Contractors Lic. # WOODW 377NO



Ticket # 11375
Wmaster CATHY
Sale Loc. 260
Saletype C CUSTOMER

CAUTION: HOT ASPHALT WILL BURN YOU!

JACK ADY
RECEIVED

CUSTOMER: NW CONST. GEN CONTR 55640		PURCHASE ORDER: 1100 EAST ALEXANDER TACOMA, WA		JOB LOAD		JOB TONS	
				TOTAL 1		16.09	
				DAILY 1		16.09	

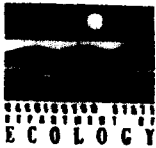
DATE	PLAN	SILO #	JOB	PLANT	TRUCK	SEQUENCE	REFERENCE
10/21/93			260- 1		11 130		
TIME 07:37							

MIXTURE	GROSS	TARE	NET WT. TONS	PRICE	TOTAL
165 PETRO CONTAM SOIL	66040	33860	16.09	42.50	

SPECIAL INSTRUCTIONS	32180 LB 2	TAX % PAY THIS AMOUNT
----------------------	------------	--------------------------

CUBIC YDS _____ PIT B160 _____
REMARKS _____ x Cathy _____ SCALE OPERATOR

APPENDIX D



UNDERGROUND STORAGE TANK Site Check/Site Assessment Checklist

For Office Use Only

Owner # _____
Site # _____

INSTRUCTIONS:

When a release has not been confirmed and reported, this Site Check/Site Assessment Checklist must be completed and signed by a person registered with Ecology. The results of the site check or site assessment must be included with this checklist. This form must be submitted to Ecology at the address shown below within 30 days after completion of the site check/site assessment.

SITE INFORMATION: Include the Ecology site ID number if the tanks are registered with Ecology. This number may be found on the tank owner's invoice or tank permit.

TANK INFORMATION: Please list all tanks for which the site check or site assessment is being conducted. Use the owner's tank ID numbers if available, and indicate tank capacity and substance stored.

REASON FOR CONDUCTING SITE CHECK/SITE ASSESSMENT: Please check the appropriate item.

CHECKLIST: Please initial each item in the appropriate box.

SITE ASSESSOR INFORMATION: This form must be signed by the registered site assessor who is responsible for conducting the site check/site assessment.

Underground Storage Tank Section
Department of Ecology
P. O. Box 47655
Olympia, WA 98504-7655

SITE INFORMATION

Site ID Number (on invoice or available from Ecology if the tanks are registered): 000530

Site/Business Name: Naval Reserve Center Tacoma

Site Address: 1100 E Alexander Telephone: (206) 476-2600

Tacoma

WA

ZIP-Code

TANK INFORMATION

Tank ID No.	Tank Capacity	Substance Stored
<u>1X</u>	<u>300 gallon</u>	<u>Heating Oil</u>
<u>1</u>	<u>12,000 gallon</u>	<u>Heating Oil</u>
<u>2</u>	<u>12,000 gallon</u>	<u>Heating Oil</u>
<u>3</u>	<u>24,000 gallon</u>	<u>Heating Oil</u>
<u>4</u>	<u>4,000 gallon</u>	<u>Heating Oil/Diesel</u>
<u>5</u>	<u>3,500 gallon</u>	<u>Heating Oil</u>

REASON FOR CONDUCTING SITE CHECK/SITE ASSESSMENT

Check one:

- Investigate suspected release due to on-site environmental contamination
- Investigate suspected release due to off-site environmental contamination.
- Extend temporary closure of UST system for more than 12 months.
- UST system undergoing change-in-service.
- UST system permanently closed-in-place.
- UST system permanently closed with tank removed.
- Abandoned tank containing product.
- Required by Ecology or delegated agency for UST system closed before 12/22/88.
- Other (describe): _____



UNDERGROUND STORAGE TANK Permanent Closure/Change-In-Service Checklist



The purpose of this form is to certify the proper closure/change-in-service of underground storage tank (UST) systems. These activities must be conducted in accordance with Chapter 173.360 WAC. Washington State UST rules require the tank owner or operator to notify Ecology in writing 30 days prior to closure or change-in-service of tanks. This must be done by completing the 30 Day Notice form (ECY 010-155).

This Permanent Closure Checklist shall be completed and signed by a Licensed Decommissioning Supervisor. The supervisor shall be on site when all tank permanent closure/change-in-service activities are being conducted. The firm which employs the licensed supervisor shall also be licensed by the Washington State Department of Ecology as a Service Provider. If any of the activities listed below have been supervised by a different licensed supervisor, a separate checklist must be filled out and signed by the licensed supervisor performing those activities.

For further information about completing this form, please contact the Department of Ecology UST Program.

A separate checklist must be completed for each UST system (tank and associated piping), except that UST systems at one site may be reported together by completing page 2 of this form separately for each system. The completed checklist should be mailed to the following address within 30 days of the completion of the closure or change-in-service.

Underground Storage Tank Section
Department of Ecology
Mail Stop PV-11
Olympia, WA 98504-8711

1. UST SYSTEM OWNER AND LOCATION

Site Owner/Operator: ROICC Navy

Owners Address: ROICC Silverdale Naval Submarine Base Bangor
Street P.O. Box
Silverdale WA 98315-5000
City State ZIP-Code

Telephone: (206) 476-2600

Site ID Number (on invoice or available from Ecology if tank is registered): 000530

Site/Business Name: Naval Reserve Training Center

Site Address: 1100 E. Alexander Way Pierce
Street County
Tacoma Washington
City State ZIP-Code

2. TANK PERMANENT CLOSURE/CHANGE-IN-SERVICE PERFORMED BY:

Firm: N.W. Construction General Contracting, Inc. License Number: S000061

Address: 22317 NE 72nd Avenue PO Box 2950
Street P.O. Box
Battle Ground Washington 98004
City State ZIP-Code

Telephone: (206) 687-2040

Licensed Supervisor: Richard Lewis Decommissioning License Number: W001830

This page must be completed separately for each tank permanently closed (decommissioned) or change-in-service at the site. For additional tanks you may photocopy this form prior to completing.



3. TANK CLOSURE/CHANGE-IN-SERVICE INFORMATION

- 1. Tank ID Number (as registered with Ecology): 5
- 2. Year Installed: 62-63
- 3. Tank capacity in gallons: 3,500 gallon
- 4. Date of last use: _____
- 5. Last substance stored: Heating Oil
- 6. Date of closure/change-in-service: _____
- 7. Type of closure: Closure with Tank Removal In-place Closure Change-in-Service
- 8. If in-place closure is used, the tank has been filled with the following substance: N/A
- 9. If change-in-service, indicate new substance stored in tank: N/A
- 10. Local permit(s) (if any) obtained from: Pierce County
Always contact local authorities regarding permit requirements.
- 11. Has a site assessment been completed? Yes No

Unless an external release detection system is operating at the time of closure or change in service, and a report is provided as specified in WAC 173-360-390, a site assessment must be conducted. This site assessment must be conducted by a person registered with the Department of Ecology to perform site assessments. Results of the site assessment must be included with the Site Assessment Checklist (ECY 010-158).

4. CHECKLIST

Each item of the following checklist shall be initialed by the licensed supervisor whose signature appears below.

	Yes	No	NA*
1. Has all liquid been removed from product lines?	X		
2. Has all product piping been capped or removed?	X		
3. Have all non-product lines been capped or removed?	X		
4. Have all liquid and accumulated sludges been removed from the tank?	X		
5. Has the tank been properly purged or inerted?	X		
6. Have the drop tube, fill pipe, gauge pipe, pumps and other tank fixtures been removed?	X		
7. Have all tank openings been plugged or capped? NOTE: One plug should have 1/8 inch vent hole.	X		
8. Have all sludges removed from the tank been designated and disposed of in accordance with the state of Washington's dangerous waste regulations (Chapter 173-303 WAC)?	X		
9. If removed, was tank properly labeled and disposed of in accordance with all applicable local, state and federal regulations?	X		

*Item not applicable

I hereby certify that I have been the licensed supervisor present on site during the above listed permanent closure activities and to the best of my knowledge they have been conducted in compliance with all applicable state and federal laws, regulations and procedures pertaining to underground storage tanks.

Persons submitting false information are subject to penalties under Chapter 173.360 WAC.

11/23/93 _____
Date Signature of Licensed Supervisor

5. ADDITIONAL REQUIRED SIGNATURES

11/24/93 _____
Date Signature of Licensed Ecology Provider (firm) Owner or Authorized Representative

Date Signature of Tank Owner or Authorized Representative

This page must be completed separately for each tank permanently closed (decommissioned) or change-in-service at the site. For additional tanks you may photocopy this form prior to completing.

3. TANK CLOSURE/CHANGE-IN-SERVICE INFORMATION

- 1. Tank ID Number (as registered with Ecology): 1
- 2. Year Installed: 1948
- 3. Tank capacity in gallons: 12,000 gallon
- 4. Date of last use: _____
- 5. Last substance stored: heating oil
- 6. Date of closure/change-in-service: 9/24/93
- 7. Type of closure: Closure with Tank Removal In-place Closure Change-In-Service
- 8. If in-place closure is used, the tank has been filled with the following substance: N/A
- 9. If change-in-service, indicate new substance stored in tank: N/A
- 10. Local permit(s) (if any) obtained from: Pierce County
Always contact local authorities regarding permit requirements.
- 11. Has a site assessment been completed? Yes No

Unless an external release detection system is operating at the time of closure or change in service, and a report is provided as specified in WAC 173-360-390, a site assessment must be conducted. This site assessment must be conducted by a person registered with the Department of Ecology to perform site assessments. Results of the site assessment must be included with the Site Assessment Checklist (ECY 010-158).

4. CHECKLIST

Each item of the following checklist shall be initialed by the licensed supervisor whose signature appears below.

	Yes	No	NA*
1. Has all liquid been removed from product lines?	X		
2. Has all product piping been capped or removed?	X		
3. Have all non-product lines been capped or removed?	X		
4. Have all liquid and accumulated sludges been removed from the tank?	X		
5. Has the tank been properly purged or inerted?	X		
6. Have the drop tube, fill pipe, gauge pipe, pumps and other tank fixtures been removed?	X		
7. Have all tank openings been plugged or capped? NOTE: One plug should have 1/8 inch vent hole.	X		
8. Have all sludges removed from the tank been designated and disposed of in accordance with the state of Washington's dangerous waste regulations (Chapter 173-303 WAC)?	X		
9. If removed, was tank properly labeled and disposed of in accordance with all applicable local, state and federal regulations?	X		

*Item not applicable
 I hereby certify that I have been the licensed supervisor present on site during the above listed permanent closure activities and to the best of my knowledge they have been conducted in compliance with all applicable state and federal laws, regulations and procedures pertaining to underground storage tanks.
 Persons submitting false information are subject to penalties under Chapter 173.360 WAC.

11/23/93 Date [Signature] Signature of Licensed Supervisor

5. ADDITIONAL REQUIRED SIGNATURES

11/24/93 Date [Signature] Signature of Licensed Service Provider (firm) Owner or Authorized Representative
[Signature] Signature of Tank Owner or Authorized Representative

This page must be completed separately for each tank permanently closed (decommissioned) or change-in-service at the site. For additional tanks you may photocopy this form prior to completing.



3. TANK CLOSURE/CHANGE-IN-SERVICE INFORMATION

- 1. Tank ID Number (as registered with Ecology): 2
- 2. Year Installed: 1948
- 3. Tank capacity in gallons: 12,000 gallon
- 4. Date of last use: _____
- 5. Last substance stored: Heating Oil
- 6. Date of closure/change-in-service: 9/24/93
- 7. Type of closure: Closure with Tank Removal In-place Closure Change-in-Service
- 8. If in-place closure is used, the tank has been filled with the following substance: N/A
- 9. If change-in-service, indicate new substance stored in tank: N/A
- 10. Local permit(s) (if any) obtained from: Pierce County
Always contact local authorities regarding permit requirements.
- 11. Has a site assessment been completed? Yes No

Unless an external release detection system is operating at the time of closure or change in service, and a report is provided as specified in WAC 173-360-390, a site assessment must be conducted. This site assessment must be conducted by a person registered with the Department of Ecology to perform site assessments. Results of the site assessment must be included with the Site Assessment Checklist (ECY 010-158).

4. CHECKLIST

Each item of the following checklist shall be initialed by the licensed supervisor whose signature appears below.

	Yes	No	NA*
1. Has all liquid been removed from product lines?	X		
2. Has all product piping been capped or removed?	X		
3. Have all non-product lines been capped or removed?	X		
4. Have all liquid and accumulated sludges been removed from the tank?	X		
5. Has the tank been properly purged or inerted?	X		
6. Have the drop tube, fill pipe, gauge pipe, pumps and other tank fixtures been removed?	X		
7. Have all tank openings been plugged or capped? NOTE: One plug should have 1/8 inch vent hole.	X		
8. Have all sludges removed from the tank been designated and disposed of in accordance with the state of Washington's dangerous waste regulations (Chapter 173-303 WAC)?	X		
9. If removed, was tank properly labeled and disposed of in accordance with all applicable local, state and federal regulations?	X		

*Item not applicable

I hereby certify that I have been the licensed supervisor present on site during the above listed permanent closure activities and to the best of my knowledge they have been conducted in compliance with all applicable state and federal laws, regulations and procedures pertaining to underground storage tanks.

Persons submitting false information are subject to penalties under Chapter 173.360 WAC.

11/23/93 _____
Date Signature of Licensed Supervisor

5. ADDITIONAL REQUIRED SIGNATURES

11/24/93 _____
Date Signature of Licensed Service Provider (firm) Owner or Authorized Representative

Date Signature of Tank Owner or Authorized Representative

This page must be completed separately for each tank permanently closed (decommissioned) or change-in-service at the site. For additional tanks you may photocopy this form prior to completing.



3. TANK CLOSURE/CHANGE-IN-SERVICE INFORMATION

- 1. Tank ID Number (as registered with Ecology): 3
- 2. Year Installed: 1948
- 3. Tank capacity in gallons: 24,000 gallon
- 4. Date of last use: _____
- 5. Last substance stored: Heating Oil
- 6. Date of closure/change-in-service: 9/23/93
- 7. Type of closure: Closure with Tank Removal In-place Closure Change-In-Service
- 8. If in-place closure is used, the tank has been filled with the following substance: N/A
- 9. If change-in-service, indicate new substance stored in tank: N/A
- 10. Local permit(s) (if any) obtained from: Pierce County
Always contact local authorities regarding permit requirements.
- 11. Has a site assessment been completed? Yes No

Unless an external release detection system is operating at the time of closure or change in service, and a report is provided as specified in WAC 173-360-390, a site assessment must be conducted. This site assessment must be conducted by a person registered with the Department of Ecology to perform site assessments. Results of the site assessment must be included with the Site Assessment Checklist (ECY 010-158).

4. CHECKLIST

Each item of the following checklist shall be initialed by the licensed supervisor whose signature appears below.

	Yes	No	NA*
1. Has all liquid been removed from product lines?	X		
2. Has all product piping been capped or removed?	X		
3. Have all non-product lines been capped or removed?	X		
4. Have all liquid and accumulated sludges been removed from the tank?	X		
5. Has the tank been properly purged or inerted?	X		
6. Have the drop tube, fill pipe, gauge pipe, pumps and other tank fixtures been removed?	X		
7. Have all tank openings been plugged or capped? NOTE: One plug should have 1/8 inch vent hole.	X		
8. Have all sludges removed from the tank been designated and disposed of in accordance with the state of Washington's dangerous waste regulations (Chapter 173-303 WAC)?	X		
9. If removed, was tank properly labeled and disposed of in accordance with all applicable local, state and federal regulations?	X		

*Item not applicable
 I hereby certify that I have been the licensed supervisor present on site during the above listed permanent closure activities and to the best of my knowledge they have been conducted in compliance with all applicable state and federal laws, regulations and procedures pertaining to underground storage tanks.

Persons submitting false information are subject to penalties under Chapter 173.360 WAC.

11/23/93 Date [Signature] Signature of Licensed Supervisor

5. ADDITIONAL REQUIRED SIGNATURES

11/24/93 Date [Signature] Signature of Licensed Service Provider (firm) Owner or Authorized Representative
[Signature] Signature of Tank Owner or Authorized Representative

This page must be completed separately for each tank permanently closed (decommissioned) or change-in-service at the site. For additional tanks you may photocopy this form prior to completing.

3. TANK CLOSURE/CHANGE-IN-SERVICE INFORMATION

1. Tank ID Number (as registered with Ecology): 4 2. Year Installed: 1982
3. Tank capacity in gallons: 4,000 gallon 4. Date of last use: _____
5. Last substance stored: Diesel 6. Date of closure/change-in-service: _____
7. Type of closure: Closure with Tank Removal In-place Closure Change-in-Service
8. If in-place closure is used, the tank has been filled with the following substance: N/A
9. If change-in-service, indicate new substance stored in tank: N/A
10. Local permit(s) (if any) obtained from: Purcell County
11. Has a site assessment been completed? Yes No

Always contact local authorities regarding permit requirements.

Unless an external release detection system is operating at the time of closure or change in service, and a report is provided as specified in WAC 173-360-390, a site assessment must be conducted. This site assessment must be conducted by a person registered with the Department of Ecology to perform site assessments. Results of the site assessment must be included with the Site Assessment Checklist (ECY 010-158).

4. CHECKLIST

Each item of the following checklist shall be initialed by the licensed supervisor whose signature appears below.

	Yes	No	NA*
1. Has all liquid been removed from product lines?	X		
2. Has all product piping been capped or removed?	X		
3. Have all non-product lines been capped or removed?	X		
4. Have all liquid and accumulated sludges been removed from the tank?	X		
5. Has the tank been properly purged or inerted?	X		
6. Have the drop tube, fill pipe, gauge pipe, pumps and other tank fixtures been removed?	X		
7. Have all tank openings been plugged or capped? NOTE: One plug should have 1/8 inch vent hole.	X		
8. Have all sludges removed from the tank been designated and disposed of in accordance with the state of Washington's dangerous waste regulations (Chapter 173-303 WAC)?			X
9. If removed, was tank properly labeled and disposed of in accordance with all applicable local, state and federal regulations?	X		

*Item not applicable

I hereby certify that I have been the licensed supervisor present on site during the above listed permanent closure activities and to the best of my knowledge they have been conducted in compliance with all applicable state and federal laws, regulations and procedures pertaining to underground storage tanks.

Persons submitting false information are subject to penalties under Chapter 173.360 WAC.

11/23/93 [Signature]
Date Signature of Licensed Supervisor

5. ADDITIONAL REQUIRED SIGNATURES

11/24/93 [Signature]
Date Signature of Licensed Service Provider (firm) Owner or Authorized Representative

Date Signature of Tank Owner or Authorized Representative