

CYPRESS PROPERTY

9/10

New Case

1120 Nye Street
Suite 400
San Rafael, CA 94901
415 457-4964
FAX 415 459-4605

September 6, 1991

CALIFORNIA REGIONAL WATER
SEP 9 1991
QUALITY CONTROL BOARD

Richard Hiett
San Francisco Bay Region
2101 Webster Street, Suite 500
Oakland, CA 94612

Dear Mr. Byrne:

Enclosed, please find a copy of the August 13, 1991 report on the tank removal work at 2855 Cypress St.

Please review the report and contact me to discuss the next action.

Sincerely,

Dan Nourse

Daniel M. Nourse, for
CYPRESS PROPERTY

Enclosure

cc: Rich Robbins
Jeff Allen

Site Name: Wareham Property

MXSL = 1800 PPM TPH-d

Div. = UST

LD = L

STAT = 0

Comment:
• chlorobenzene, Naphthalene, 2-methyl naphthalene
+ phenol < 1 ppm in SL
• 8/13 TRR

DEES EXCAVATION AN ENVIRONMENTAL COMPANY

3645 Leafwood Circle
Antioch, CA 94509

Cliff Dees
Tel (916) 678-6128
Mobile (916) 952-1640

Fred Bourret
(415) 757-7712
(415) 518-1732

Harding Lawson Associates
A Subsidiary of Harding Associates



Chris Rossitto
Staff Geologist

7655 Redwood Blvd., P.O. Box 578
Novato, California 94948
415/892-0821
Telecopy: 415/892-1586

Engineering and
Environmental Services



August 13, 1991

18452,047.02

2

Wareham Property Group
1120 Nye Street, Suite 400
San Rafael, California 94901

Attention: Mr. Dan Nourse

Report
Underground Storage Tank Removal
2855 Cypress Street
Oakland, California

This letter presents to the Wareham Property Group (Wareham) the results of Harding Lawson Associates' (HLA's) environmental services during the removal of two underground storage tanks (UST's) at 2855 Cypress Street, Oakland, California (site). An area map showing the site location is presented in Plate 1. The work was performed in response to the discovery of the USTs and the detection of hydrocarbon odors in soil from a nearby excavation. The purpose of HLA's investigation was to observe and document tank removal activities and perform soil sampling. The work was performed in accordance with HLA's proposal dated March 7, 1991, and authorized by a signed HLA Service Agreement dated March 27, 1991.

BACKGROUND

Harding Lawson Associates (HLA) has provided Wareham Property Group with a Preliminary Hazardous Materials Site Assessment (PSA) report of the 2855 Cypress Street property dated September 5, 1990. The purpose of the PSA was to provide information about the site and surrounding area relative to the potential presence of hazardous materials. During the course of the PSA investigation a vent line was observed indicating that a UST may be present at the site. No records regarding the history, age, and integrity testing of the UST are currently available. HLA recommended in the PSA that the possible presence for a UST be further evaluated.

FIELD INVESTIGATION

Geophysical Investigation

HLA was authorized by Wareham to perform an underground tank evaluation at the site. Pursuant to HLA's proposal of February 14, 1991, a geophysical investigation was performed to locate a possible UST and associated pipelines. The geophysical

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investigation was conducted by use a pipe and cable locator and ground penetrating radar (GPR). The results of our investigation indicated that two USTs were located at the site: in approximate sizes they appeared to be a 350-gallon gasoline UST and a 200-gallon waste oil tank. Access to both USTs was made. The gasoline UST had approximately 1 foot of product in the tank, while the waste oil tank was full of oil with a thicker sludge at the bottom of the tank.

UST Content and Ramp Excavation Sampling

On June 20, 1991, HLA collected samples of the contents of the gasoline and waste oil USTs. The samplers were collected using disposable teflon bailers and decanted into 40-milliliter volatile organic analysis (VOA) vials, 1-liter amber glass containers, 1-liter plastic containers, labelled, and placed in a cooler. The purpose of the sampling was to document the contents of the USTs prior to their removal. The tank contents were then removed by a vacuum truck supplied by KVS Transportation (KVS), Bakersfield, California. The KVS truck remained onsite until tank removal activities started the next day. Two soil samples were collected at 2.5 feet below ground surface (bgs) from an excavation for a loading dock (ramp excavation) approximately 35 feet south of the USTs. The samples were collected in response to detection of hydrocarbon odors during the ramp excavation. In addition, a sample of water from the ramp excavation was collected in the same manner as the UST content samples previously mentioned. The soil samples were collected by pushing a clean stainless steel tube into the soil until it was completely filled and the ends of the samples tubes were then covered with teflon-lined plastic caps, labeled and placed in a cooler along with the water sample and UST content samples.

TANK REMOVAL ACTIVITIES

On June 20, 1991, Dees Excavation (Dees), Antioch, California, removed the concrete surface above the two USTs by use of a jack-hammer and backhoe.

On June 21, 1991, Dees began tank excavation activities at the site. Representatives from HLA, Wareham, and the Alameda County Health Care Service Agency (County), were on site to observe UST removal. Prior to tank removal, permits were obtained by Dees from the County, the City of Oakland Fire Department (City), and the Bay Area Air Quality Management District.

One 250-gallon waste oil tank and one 350-gallon gasoline tank were adjacent to a building wall (Plate 2). A concrete pump island which supported a former fuel dispenser was observed directly inside the building adjacent to the USTs. A backhoe was used to remove soil above the USTs. The soil was stockpiled in the vicinity of the excavation. The product line, between the gasoline UST and pump island, was cut off at the building wall. At this time, the remaining product line has not been capped. Water, which had entered the tanks since being pumped the previous day, was removed

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from the tanks by KVS. Approximately 1,250 gallons of water and tank contents were transported from the site for disposal under appropriate manifest to Gibson Oil and Refining (Gibson), Bakersfield, California. A copy of the original uniform hazardous waste manifest is attached to this letter.

Approximately 50 pounds of dry ice was added to each tank to purge hydrocarbon vapors from them. Vapors were monitored by HLA for the presence of explosive hydrocarbon vapors using a Gastech Model 1314 combustible gas indicator (Gastech) and found to be below 10 percent of the lower explosive limit (LEL). The County then approved tank removal from the excavation.

* The tanks were then removed by attaching a chain to them and lifting them out of the excavation with the backhoe. The tanks were composed of single wall steel wrapped with burlap. The burlap was badly deteriorated. Visual examination of the two USTs found numerous holes up to 3 inches in diameter. The largest hole observed was approximately 2 inches wide by 10 inches long at the bottom of the gasoline UST. The tanks were then loaded onto a truck provided by H&H Shipping Services (H&H), San Francisco, California, and transported under appropriate manifest from the site to the H&H Yard for steam cleaning. Copies of the original uniform hazardous waste manifests are attached to this letter. Upon completion of steam cleaning, the 350-gallon tank was disposed as scrap metal to Schnitzer Steel Oakland, California, and the 250-gallon tank was disposed as scrap metal to Levin Metals Company, Richmond, California.

The backfill for the tank excavation consisted of dark gray-green sandy clay. The material had strong petroleum hydrocarbon odors and was visibly stained. No free groundwater was present in the tank excavation after UST removal although the soil appeared to be saturated. Observation made during excavation and soil sampling activities indicate that soil conditions at the site consist of bay mud overlain by fill material.

SOIL SAMPLING

Following removal of the two USTs from the site, two soil samples were collected from the excavation. One soil sample was collected from beneath the waste oil UST, and one soil sample from the east excavation wall adjacent to the gasoline tank. In addition, four samples were collected from the tank backfill soil stockpile for compositing in the laboratory. The number of samples and sampling locations were specified by the County. The excavation samples were collected by having the backhoe remove a bucket of soil from the desired sample location. The bucket was then brought to the surface and samples were then directly sampled as described before.

The samples were labeled, placed in a cooler along with the previously collected samples, and transported under chain of custody to NET Pacific Inc. Laboratories (NET), Santa Rosa, California. NET is a state-certified laboratory for the analyses requested. Sample locations are shown on Plate 2.

Upon completion of sample collection, the tank excavation was lined with plastic sheeting. The tank backfill stockpiled soil was then placed back into the plastic lined tank excavation pending receipt of laboratory analytical results and recommendation.

LABORATORY ANALYSES

Soil samples collected from the soil stockpile and excavation wall adjacent to the east end of the gasoline UST were analyzed for total petroleum hydrocarbons (TPH) as gasoline, diesel, and motor oil, and benzene, toluene, ethylbenzene, and xylene's (BTEX). The ramp excavation soil and water samples, tank content samples, and excavation floor soil sample from beneath the waste oil UST were analyzed for TPH as gasoline, diesel, and motor oil, BTEX, total oil and grease (TOG), volatile organic compounds (EPA Test Method 8010), semivolatile organic compounds (EPA Test Method 8270), and the metals cadmium, chromium, lead, nickel, and zinc. Analytical results are listed in Tables 1 and 2. Copies of the original laboratory reports are attached to this letter.

SUMMARY OF ANALYTICAL RESULTS

Analytical results of soil samples collected from the ramp excavation indicate that TPH as gasoline was present at concentrations ranging from nondetect (ND) to 16 parts per million (ppm), TPH as diesel ranged from ND to 11 ppm, TPH as motor oil ranged from 14 to 32 ppm, TOG ranged from 85 to 370 ppm, and BTEX was ND. No EPA Test Method 8010 and 8270 parameters were detected. Results of the ramp excavation ~~water sample indicate TPH as gasoline was detected at a concentration of 58 ppm~~ and TPH as diesel at 1.3 ppm. TPH as motor oil was not detected. BTEX was detected at concentrations from 0.078 to 0.48 ppm. The semivolatile compound, phenol, was present in the water sample at a concentration of 0.067 ppm. No other EPA Method 8270 constituents were detected. No EPA Method 8010 constituents were detected. The metals chromium, lead, nickel, and zinc were detected at concentrations of 30, 2.9, 27, and 19 respectively. Cadmium was not detected.

TPH_g - 58,000 mg/l

Review of analytical results of soil samples collected from the tank excavation floor, sidewall, and backfill indicate TPH as gas ranged from 41 to 240 ppm, TPH as diesel ranged from 12 to 1,800 ppm, TPH as motor oil ranged from 14 to 2,000 ppm, and TOG was present at 120 ppm in the floor sample beneath the waste oil UST. BTEX concentrations ranged between ND and 5.7 ppm. Volatile organic compounds (EPA Test Method 8010 parameters) and semivolatile organic compounds (EPA Test Method 8270 parameters) were detected in the soil sample collected from beneath the waste oil UST. The volatile compound, chlorobenzene, was present at 0.012 ppm and



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the semivolatile compounds, 2-methylnaphthalene and naphthalene, were present at 0.44 and 0.87 ppm, respectively. No other EPA Test Method 8010 and 8270 constituents were detected. In addition, the metals chromium, lead, nickel, and zinc were detected at 65, 5.1, 70, and 57 ppm respectively in the soil sample collected from beneath the waste oil UST.

DISCUSSION

Based on visual examination and analytical results there has been a release of petroleum hydrocarbons to the area surrounding the USTs. The majority of constituents detected are gasoline, diesel, motor oil, and oil and grease. At the present time, the extent of release of petroleum hydrocarbons has not been defined. The highest concentrations of TPH as gasoline, diesel, and motor oil (240, 1,800, and 2,000 ppm respectively) were detected in soil collected from the UST excavation. In those samples analyzed for TOG, the highest concentration was detected at 370 ppm in soil collected from the ramp excavation approximately 35 feet south of the UST excavation.

HLA recommends that copies of this report be submitted to the California Regional Water Quality Control Board, San Francisco Bay Region (RWQCB) and the Alameda County Health Care Service Agency (County).

Very truly yours,

HARDING LAWSON ASSOCIATES

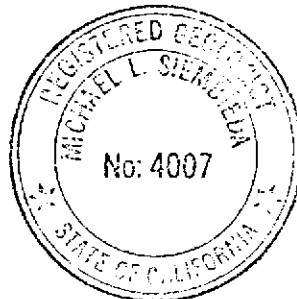
Chris Rossitto

Christopher D. Rossitto
Staff Geologist

Michael L. Siembieda

Michael L. Siembieda
Associate Geologist

CDR/MLS/elb/E18429-H

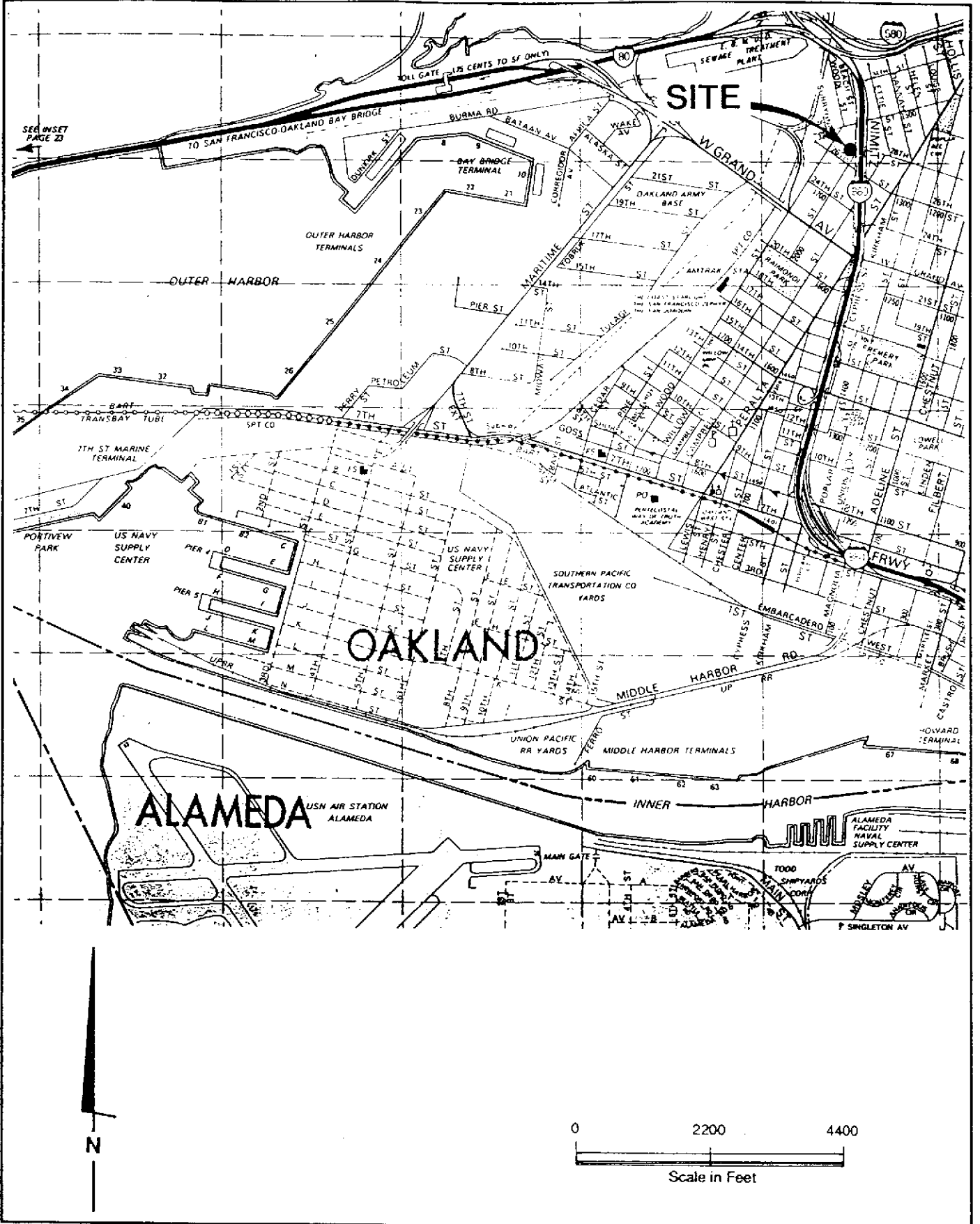


**Table 1. Analytical Results of Petroleum Hydrocarbons
Constituents in Samples (ppm)¹**

Harding Lawson Associates

Sample Number	Sample Date	Sample Location ²	Sample Type	Sample Depth (ft) ³	TPH as Gasoline	TPH as Diesel	TPH as Motor Oil	Total Oil & Grease	Benzene	Toluene	Ethyl-benzene	Total Xylenes
91062001	6/20/91	1	<u>Soil-ramp Excavation (East End)</u>	2.5	ND(1) ⁴	ND(1)	14	85	ND(0.0025)	ND(0.0025)	ND(0.0025)	ND(0.0025)
91062002	6/20/91	2	<u>Soil-ramp Excavation (West End)</u>	2.5	16	11	32	370	ND(0.0025)	ND(0.0025)	ND(0.0025)	ND(0.0025)
91062003	6/20/91	3	<u>Water-ramp Excavation</u>	3.0	58	1.3	ND(0.5)	NA ⁵	0.29	0.36	0.078	0.48
91062004	6/20/91	4	Waste Oil UST Contents	--	130,000	290,000	460,000	450,000	ND(0.0005)	85	ND(0.0005)	ND(0.0005)
91062005	6/20/91	5	Gasoline UST Contents	--	53	110	74	NA	0.86	0.079	0.065	2
91062101	6/21/91	6	Soil - UST Excavation Floor	6.5	41	12	14	120	0.93	1.3	0.89	2.5
91062102	6/21/91	7	Soil - UST Excavation Sidewall	2.5	240	1,800	2,000	NA	1.1	0.2	1.8	5.7
91062103	6/21/91	8	Soil - UST Backfill	--	81	230	410	NA	ND(0.0025)	ND(0.0025)	0.5	3.6

1 ppm - parts per million.
 2 Sample locations shown on Plate 2.
 3 Sample depth in feet below ground surface.
 4 ND(1) - Not detected at indicated detection limit.
 5 NA - Not Analyzed.



Harding Lawson Associates
 Engineering and
 Environmental Services

Area Map
 2855 Cypress Street
 Oakland, California

PLATE

1

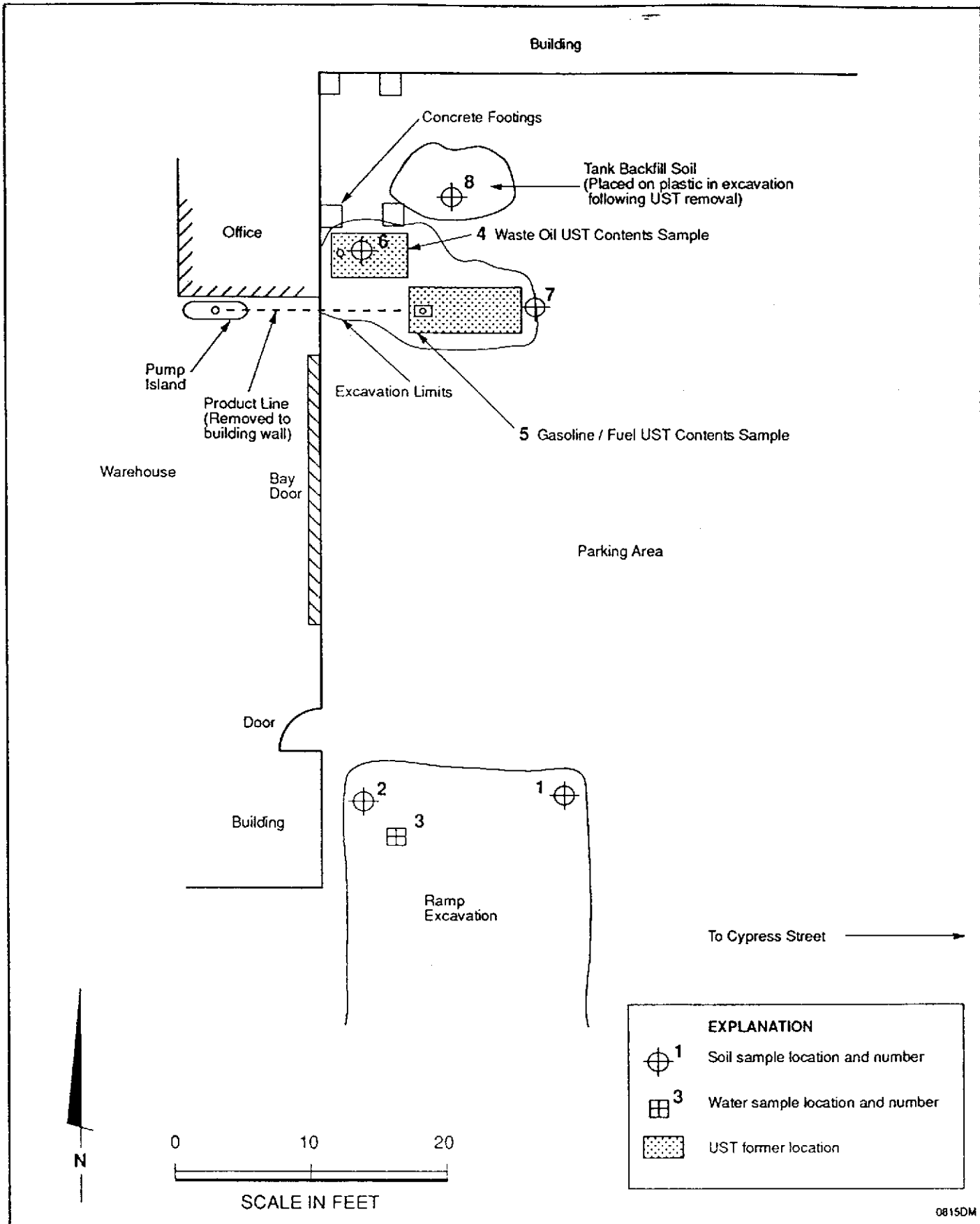
DRAWN
PK

JOB NUMBER
18452,047.02

APPROVED

DATE
8/91

REVISED DATE



EXPLANATION	
	Soil sample location and number
	Water sample location and number
	UST former location

0815DM
PLATE



Harding Lawson Associates
Engineering and Environmental Services

Site Plan
2855 Cypress Street
Oakland, California

2

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
PKc	18452,047.02		8/91	

Table 2. Analytical Results of Volatile and Semivolatile Organic Compounds and Metals in Samples (ppm)¹

Harding Lawson Associates

tank content

Sample Number ²	91062001	91062002	91062003	91062004	91062005	91062101	92062102	92062103
Sample Location	1	2	3	4	5	6	7	8
EPA Method 8010 Parameters ³ (Volatile Organic Compounds)								
Chlorobenzene	ND ⁴	ND	ND	0.032	ND	0.012	NA ⁵	NA
1,2-Dichloroethane	ND	ND	ND	0.61	0.0064	ND	NA	NA
Methylene Chloride	ND	ND	ND	12	ND	ND	NA	NA
Trichloroethane	ND	ND	ND	0.0095	ND	ND	NA	NA
EPA Method 8270 Parameters ⁶ (Semivolatile Organic Compounds)								
2-Methylnaphthalene	ND	ND	ND	87	2	0.44	NA	NA
Naphthalene	ND	ND	0.067	ND	2.4	0.87	NA	NA
Phenol	ND	ND	ND	170	ND	ND	NA	NA
4-Methylphenol	ND	ND	ND	160	ND	ND	NA	NA
2,4-Dimethylphenol	ND	ND	ND	ND	0.51	ND	NA	NA
Metals								
Cadmium	ND	ND	ND	3	ND	ND	NA	NA
Chromium	30	50	0.21	21	ND	65	NA	NA
Lead	2.9	20	0.13	640	0.04	5.1	NA	NA
Nickel	27	48	0.25	30	0.09	70	NA	NA
Zinc	19	42	0.3	870	0.63	57	NA	NA

- 1 ppm - parts per million.
- 2 Corresponding sample date, location, type, and depth are shown in Table 1.
- 3 All other EPA Method 8010 Parameters were not detected.
- 4 ND - Not Detected (detection limits shown in laboratory analytical report).
- 5 NA - Not Analyzed.
- 6 All other EPA Method 8270 Parameters were not detected.

90658291

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

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. CA1C1010015R2682	Manifest Document No. 010100V	2. Page 1 1 of 1	Information in the shaded areas is not required by Federal law.	
3. Generator's Name and Mailing Address WAREHOUSE PROPERTY 1180 NYE ST. SAN RAFAEL, CA. 94901				A. State Manifest Document Number 90658291		
4. Generator's Phone 415-457-4964				B. State Generator's ID		
5. Transporter 1 Company Name KUS TRANSPORTATION		6. US EPA ID Number CAD982495608		C. State Transporter's ID 116238		D. Transporter's Phone 805-579-5220
7. Transporter 2 Company Name		8. US EPA ID Number		E. State Transporter's ID 116238		F. Transporter's Phone
9. Designated Facility Name and Site Address GIBSON OIL & REFINING 3121 STANDARD AVE. BAKERSFIELD CA. 93305				10. US EPA ID Number CAD980883177		G. State Facility's ID CAD980883177
				H. Facility's Phone		
11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)				12. Containers No. Type	13. Total Quantity	14. Unit Wt/Vol
a. WASTE OIL NON-RCRA HAZARDOUS WASTE LIQUID				0101 TV	11250	G
J. Additional Descriptions for Materials Listed Above WATER 50% OIL 50%				K. Handling Codes for Wastes Listed Above		
				a. b. c. d.		
15. Special Handling Instructions and Additional Information RELEASE # 0346-2 PROPERTY: 2855 Cypress St OAKLAND, CA 94627 WEAR PROTECTIVE CLOTHING AS NEEDED						
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.						
Printed/Typed Name Danel Nourie		Signature <i>[Signature]</i>		Month Day Year 12/31/91		
17. Transporter 1 Acknowledgement of Receipt of Materials						
Printed/Typed Name LARRY WOODRUFF		Signature <i>[Signature]</i>		Month Day Year 12/31/91		
18. Transporter 2 Acknowledgement of Receipt of Materials						
Printed/Typed Name		Signature		Month Day Year		
19. Discrepancy Indication Space						
20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.						
Printed/Typed Name		Signature		Month Day Year		

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. **C IA IC IO 10 10 15 18 12 16 13 12 0 10 10 10 11**
Manifest—Document No. **0 10 10 10 11**

2. Page 1 of 1
Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
**WARE HAM PROPERTY DEVELOPMENT
1120 Nye Street, San Rafael, Ca. 94901**

A. State Manifest Document Number
90537239

4. Generator's Phone **(415) 457-4964**

B. State Generator's ID

5. Transporter 1 Company Name
H & H Ship Service Company

C. State Transporter's ID **200501**

6. US EPA ID Number
IC IA ID 10 10 14 17 17 11 11 16 18

D. Transporter's Phone **(415) 543-4835**

7. Transporter 2 Company Name

E. State Transporter's ID

8. US EPA ID Number

F. Transporter's Phone

9. Designated Facility Name and Site Address
**H & H Ship Service Company
220 China Basin Street
San Francisco, CA 94107**

G. State Facility's ID
C IA ID 10 10 14 17 17 11 11 16 18

H. Facility's Phone
(415) 543-4835

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers		13. Total Quantity	14. Unit Wt/Vol	15. Waste No.
	No.	Type			
a. RESIDUE GASOLINE TANK NON-RCRA HAZARDOUS WASTE SOLID	0 10 1	T P	0 10 13 15 10	p	State 512 EPA/Other
b.					State EPA/Other
c.					State EPA/Other
d.					State EPA/Other

J. Additional Descriptions for Materials Listed Above
**PUMPED OUT 350 gallon tank last containing gasoline. Tank inerted with dry ice for transport.
PROFILE #A0953**

K. Handling Codes for Wastes Listed Above
a. **01**
b.
c.
d.

15. Special Handling Instructions and Additional Information
**JOB #7828
24 Hr. Emergency Contact: H & H #(415) 543-4835
APPROPRIATE PROTECTIVE CLOTHING AND RESPIRATOR**

JOB SITE: **WARE HAM PROPERTY DEVEL.
2855 Cypress Street
Oakland, California**

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.
If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name **Daniel Nourse** Signature *[Signature]* Month Day Year **10/16/1991**

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name **WAYMON H. MC DONALD** Signature *[Signature]* Month Day Year **10/16/1991**

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name _____ Signature _____ Month Day Year _____

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in item 19:
Printed/Typed Name **Charles Valdez** Signature *[Signature]* Month Day Year **06/21/91**

IN CASE OF AN EMERGENCY OIL SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-0302; WITHIN CALIFORNIA CALL 1-800-962-7660

Do Not Write Below This Line

Please print or type. Form designed for use on elite (12-pitch typewriter).

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. 0 Manifest Document No. 0 0 0 0 0 0

2. Page 1 of 1 Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
WARE HAM PROPERTY DEVELOPMENT
 1120 Nye Street, San Rafael, Ca. 94901

A. State Manifest Document Number **90537240**
 B. State Generator's ID 0

4. Generator's Phone **(415) 457-4241**

C. State Transporter's ID **700501**
 D. Transporter's Phone 0

5. Transporter 1 Company Name **H & H Ship Service Company**

E. State Transporter's ID 0
 F. Transporter's Phone 0

7. Transporter 2 Company Name
 9. Designated Facility Name and Site Address
Enbridge, Inc.
 255 Park Blvd.
 Pittsburg, Ca 94901

10. US EPA ID Number 0
 G. State Facility's ID 0
 H. Facility's Phone 0

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)

a. **WASTE EMULSION STORAGE TANK**
NON-FLAMMABLE LIQUID

b.
 c.
 d.

12. Containers No.	13. Total Quantity	14. Unit Wt/Vol	15. Waste No.
			State 512 EPA/Other
			State EPA/Other
			State EPA/Other
			State EPA/Other

J. Additional Descriptions for Materials Listed Above
Empty Storage Tank (ST) with 15 lbs. Dry Ice per 1000 Gallons Capacity

K. Handling Codes for Wastes Listed Above
 a. **01**
 b.
 c.
 d.

15. Special Handling Instructions and Additional Information
 Keep away from sources of ignition. Always wear JOB SITE: **WARE HAM PROPERTY DEVEL.**
 hardhats when working around U.S.T.'s. 24 Hr. **255 Cypress Street**
 Contact Name **H & H** Phone **(415) 457-4241** **San Rafael, California**

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.
 If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practical method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name **Michael J. Voulas** Signature *[Signature]* Month Day Year **08/21/91**

17. Transporter 1 Acknowledgement of Receipt of Materials
 Printed/Typed Name **WAYNE H. MC DONALD** Signature *[Signature]* Month Day Year **08/21/91**

18. Transporter 2 Acknowledgement of Receipt of Materials
 Printed/Typed Name _____ Signature _____ Month Day Year _____

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.
 Printed/Typed Name **Michael H. Rossini Jr** Signature *[Signature]* Month Day Year **08/24/91**

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

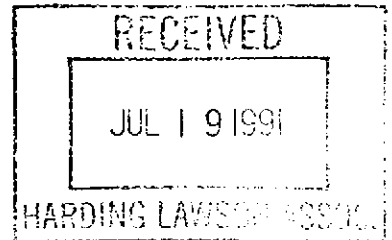
Do Not Write Below This Line

GREEN: HAULER RETAINS



NATIONAL
ENVIRONMENTAL
TESTING, INC.

NET Pacific, Inc.
435 Tesconi Circle
Santa Rosa, CA 95401
Tel: (707) 526-7200
Fax: (707) 526-9623



Mike Siembieda
Harding Lawson Associates
200 Rush Landing
Novato, CA 94947

Date: 07-16-91
NET Client Acct. No: 281
NET Pacific Log No: 8242
Received: 06-21-91 1734

Client Reference Information

Wareham/2855 Cypress St., Job: 18452,047.02

Sample analysis in support of the project referenced above has been completed and results are presented on following pages. Please refer to the enclosed "Key to Abbreviations" for definition of terms. Should you have questions regarding procedures or results, please feel welcome to contact Client Services.

Approved by:


Jules Skamarack
Laboratory Manager

Enclosure(s)



Client Acct: 281
 © Client Name: Harding Lawson Associates
 NET Log No: 8242

Date: 07-16-91
 Page: 2

NET Pacific, Inc.

Ref: Wareham/2855 Cypress St., Job: 18452,047.02

SAMPLE DESCRIPTION: 91062001 06-20-91 1020
 LAB Job No: (-89637)

Parameter	Method	Reporting Limit	Results	Units
Oil & Grease(Total)	5520E	50	85	mg/Kg
Cadmium	6010	2	ND	mg/Kg
Chromium	6010	2	30	mg/Kg
Lead (EPA 7421)	7421	0.2	2.9	mg/Kg
Nickel	6010	5	27	mg/Kg
Zinc	6010	2	19	mg/Kg

METHOD 8010

DATE ANALYZED	07-02-91		
DILUTION FACTOR*	1		
Bromodichloromethane	2.0	ND	ug/Kg
Bromoform	2.0	ND	ug/Kg
Bromomethane	2.0	ND	ug/Kg
Carbon tetrachloride	2.0	ND	ug/Kg
Chlorobenzene	2.0	ND	ug/Kg
Chloroethane	2.0	ND	ug/Kg
2-Chloroethylvinyl ether	5.0	ND	ug/Kg
Chloroform	2.0	ND	ug/Kg
Chloromethane	2.0	ND	ug/Kg
Dibromochloromethane	2.0	ND	ug/Kg
1,2-Dichlorobenzene	2.0	ND	ug/Kg
1,3-Dichlorobenzene	2.0	ND	ug/Kg
1,4-Dichlorobenzene	2.0	ND	ug/Kg
Dichlorodifluoromethane	2.0	ND	ug/Kg
1,1-Dichloroethane	2.0	ND	ug/Kg
1,2-Dichloroethane	2.0	ND	ug/Kg
1,1-Dichloroethene	2.0	ND	ug/Kg
trans-1,2-Dichloroethene	2.0	ND	ug/Kg
1,2-Dichloropropane	2.0	ND	ug/Kg
cis-1,3-Dichloropropene	2.0	ND	ug/Kg
trans-1,3-Dichloropropene	2.0	ND	ug/Kg
Methylene Chloride	50	ND	ug/Kg
1,1,2,2-Tetrachloroethane	2.0	ND	ug/Kg
Tetrachloroethene	2.0	ND	ug/Kg
1,1,1-Trichloroethane	2.0	ND	ug/Kg
1,1,2-Trichloroethane	2.0	ND	ug/Kg
Trichloroethene	2.0	ND	ug/Kg
Trichlorofluoromethane	2.0	ND	ug/Kg
Vinyl chloride	2.0	ND	ug/Kg



Client Acct: 281
 Client Name: Harding Lawson Associates
 NET Log No: 8242

Date: 07-16-91
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NET Pacific, Inc.

Ref: Wareham/2855 Cypress St., Job: 18452,047.02

SAMPLE DESCRIPTION: 91062001 06-20-91 1020
 LAB Job No: (-89637)

Parameter	Method	Reporting Limit	Results	Units
PETROLEUM HYDROCARBONS				
VOLATILE (SOIL)				
DILUTION FACTOR *			1	
DATE ANALYZED			07-03-91	
METHOD GC FID/5030			--	
as Gasoline		1	ND	mg/Kg
METHOD 8020			--	
DILUTION FACTOR *			1	
DATE ANALYZED			07-03-91	
Benzene		2.5	ND	ug/Kg
Ethylbenzene		2.5	ND	ug/Kg
Toluene		2.5	ND	ug/Kg
Xylenes, total		2.5	ND	ug/Kg
PETROLEUM HYDROCARBONS				
EXTRACTABLE (SOIL)				
DILUTION FACTOR *			1	
DATE EXTRACTED			06-27-91	
DATE ANALYZED			06-30-91	
METHOD GC FID/3550			--	
as Diesel		1	ND	mg/Kg
as Motor Oil		10	14	mg/Kg



NET Pacific, Inc.

Client Acct: 281
Client Name: Harding Lawson Associates
NET Log No: 8242

Date: 07-16-91
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Ref: Wareham/2855 Cypress St., Job: 18452,047.02

SAMPLE DESCRIPTION: 91062001 06-20-91 1020
LAB Job No: (-89637)

Parameter	Method	Reporting Limit	Results	Units
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METHOD 8270

DATE EXTRACTED			06-26-91	
DATE ANALYZED			06-28-91	
DILUTION FACTOR *			1	
Acenaphthene	330		ND	ug/Kg
Acenaphthylene	330		ND	ug/Kg
Aldrin	1600		ND	ug/Kg
Anthracene	330		ND	ug/Kg
Benzidine	1600		ND	ug/Kg
Benzo(a)anthracene	330		ND	ug/Kg
Benzo(b)fluoranthene	330		ND	ug/Kg
Benzo(k)fluoranthene	330		ND	ug/Kg
Benzo(a)pyrene	330		ND	ug/Kg
Benzo(g,h,i)perylene	330		ND	ug/Kg
Benzoic Acid	1600		ND	ug/Kg
Benzyl Alcohol	330		ND	ug/Kg
Butyl benzyl phthalate	330		ND	ug/Kg
delta-BHC	1600		ND	ug/Kg
gamma-BHC	1600		ND	ug/Kg
bis(2-chloroethyl)ether	330		ND	ug/Kg
bis(2-chloroethoxy)methane	330		ND	ug/Kg
bis(2-chloroisopropyl)ethe	330		ND	ug/Kg
bis(2-ethylhexyl)phthalate	330		ND	ug/Kg
4-Bromophenyl phenyl ether	330		ND	ug/Kg
4-Chloroaniline	330		ND	ug/Kg
2-Chloronaphthalene	330		ND	ug/Kg
4-Chlorophenyl phenyl ethe	330		ND	ug/Kg
Chrysene	330		ND	ug/Kg
4,4'-DDD	1600		ND	ug/Kg
4,4'-DDE	1600		ND	ug/Kg
4,4'-DDT	1600		ND	ug/Kg
Dibenzo(a,h)anthracene	330		ND	ug/Kg
Dibenzofuran	330		ND	ug/Kg
Di-n-butylphthalate	330		ND	ug/Kg
1,2-Dichlorobenzene	330		ND	ug/Kg
1,3-Dichlorobenzene	330		ND	ug/Kg
1,4-Dichlorobenzene	330		ND	ug/Kg
3,3'-Dichlorobenzidine	660		ND	ug/Kg
Dieldrin	1600		ND	ug/Kg
Diethylphthalate	330		ND	ug/Kg
Dimethyl phthalate	330		ND	ug/Kg
2,4-Dinitrotoluene	330		ND	ug/Kg
2,6-Dinitrotoluene	330		ND	ug/Kg
Di-n-octyl phthalate	330		ND	ug/Kg
Endrin aldehyde	1600		ND	ug/Kg



NET Pacific, Inc.

Client Acct: 281
Client Name: Harding Lawson Associates
NET Log No: 8242

Date: 07-16-91
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Ref: Wareham/2855 Cypress St., Job: 18452,047.02

SAMPLE DESCRIPTION: 91062001 06-20-91 1020
LAB Job No: (-89637)

Parameter	Method	Reporting Limit	Results	Units
Fluoranthene		330	ND	ug/Kg
Fluorene		330	ND	ug/Kg
Heptachlor		1600	ND	ug/Kg
Heptachlor epoxide		1600	ND	ug/Kg
Hexachlorobenzene		330	ND	ug/Kg
Hexachlorobutadiene		330	ND	ug/Kg
Hexachlorocyclopentadiene		330	ND	ug/Kg
Hexachloroethane		330	ND	ug/Kg
Indeno(1,2,3-cd)pyrene		330	ND	ug/Kg
Isophorone		330	ND	ug/Kg
2-Methylnaphthalene		330	ND	ug/Kg
Naphthalene		330	ND	ug/Kg
2-Nitroaniline		1600	ND	ug/Kg
3-Nitroaniline		1600	ND	ug/Kg
4-Nitroaniline		1600	ND	ug/Kg
Nitrobenzene		330	ND	ug/Kg
N-Nitroso-Di-N-propylamine		330	ND	ug/Kg
N-Nitrosodiphenylamine		330	ND	ug/Kg
Phenanthrene		330	ND	ug/Kg
Pyrene		330	ND	ug/Kg
1,2,4-Trichlorobenzene		330	ND	ug/Kg
4-Chloro-3-methylphenol		330	ND	ug/Kg
2-Chlorophenol		330	ND	ug/Kg
2,4-Dichlorophenol		330	ND	ug/Kg
2,4-Dimethylphenol		330	ND	ug/Kg
2,4-Dinitrophenol		1600	ND	ug/Kg
4,6-Dinitro-2-methylphenol		1600	ND	ug/Kg
2-Nitrophenol		330	ND	ug/Kg
4-Nitrophenol		1600	ND	ug/Kg
Pentachlorophenol		1600	ND	ug/Kg
Phenol		330	ND	ug/Kg
2,4,6-Trichlorophenol		330	ND	ug/Kg
2-Methylphenol		330	ND	ug/Kg
4-Methylphenol		330	ND	ug/Kg
2,4,5-Trichlorophenol		1600	ND	ug/Kg
SURROGATE RESULTS			--	
Nitrobenzene-d5			45	% Rec.
2-Fluorobiphenyl			52	% Rec.
p-terphenyl-d14			70	% Rec.
Phenol-d5			45	% Rec.
2-Fluorophenol			40	% Rec.
2,4,6-Tribromophenol			64	% Rec.



NET Pacific, Inc.

Client Acct: 281
Client Name: Harding Lawson Associates
NET Log No: 8242

Date: 07-16-91
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Ref: Wareham/2855 Cypress St., Job: 18452,047.02

SAMPLE DESCRIPTION: 91062002 06-20-91 1150
LAB Job No: (-89638)

Parameter	Method	Reporting Limit	Results	Units
Oil & Grease(Total)	5520E	50	370	mg/Kg
Cadmium	6010	2	ND	mg/Kg
Chromium	6010	2	50	mg/Kg
Lead (EPA 7421)	7421	0.2	20	mg/Kg
Nickel	6010	5	48	mg/Kg
Zinc	6010	2	42	mg/Kg

METHOD 8010

Parameter	Method	Reporting Limit	Results	Units
DATE ANALYZED			07-02-91	
DILUTION FACTOR*			1	
Bromodichloromethane		2.0	ND	ug/Kg
Bromoform		2.0	ND	ug/Kg
Bromomethane		2.0	ND	ug/Kg
Carbon tetrachloride		2.0	ND	ug/Kg
Chlorobenzene		2.0	ND	ug/Kg
Chloroethane		2.0	ND	ug/Kg
2-Chloroethylvinyl ether		5.0	ND	ug/Kg
Chloroform		2.0	ND	ug/Kg
Chloromethane		2.0	ND	ug/Kg
Dibromochloromethane		2.0	ND	ug/Kg
1,2-Dichlorobenzene		2.0	ND	ug/Kg
1,3-Dichlorobenzene		2.0	ND	ug/Kg
1,4-Dichlorobenzene		2.0	ND	ug/Kg
Dichlorodifluoromethane		2.0	ND	ug/Kg
1,1-Dichloroethane		2.0	ND	ug/Kg
1,2-Dichloroethane		2.0	ND	ug/Kg
1,1-Dichloroethene		2.0	ND	ug/Kg
trans-1,2-Dichloroethene		2.0	ND	ug/Kg
1,2-Dichloropropane		2.0	ND	ug/Kg
cis-1,3-Dichloropropene		2.0	ND	ug/Kg
trans-1,3-Dichloropropene		2.0	ND	ug/Kg
Methylene Chloride		50	ND	ug/Kg
1,1,2,2-Tetrachloroethane		2.0	ND	ug/Kg
Tetrachloroethene		2.0	ND	ug/Kg
1,1,1-Trichloroethane		2.0	ND	ug/Kg
1,1,2-Trichloroethane		2.0	ND	ug/Kg
Trichloroethene		2.0	ND	ug/Kg
Trichlorofluoromethane		2.0	ND	ug/Kg
Vinyl chloride		2.0	ND	ug/Kg



NET Pacific, Inc.

Client Acct: 281

Client Name: Harding Lawson Associates

NET Log No: 8242

Date: 07-16-91

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Ref: Wareham/2855 Cypress St., Job: 18452,047.02

SAMPLE DESCRIPTION: 91062002 06-20-91 1150

LAB Job No: (-89638**)

Parameter	Method	Reporting Limit	Results	Units
PETROLEUM HYDROCARBONS				
VOLATILE (SOIL)				
DILUTION FACTOR *			1	
DATE ANALYZED			07-02-91	
METHOD GC FID/5030			--	
as Gasoline		1	16	mg/Kg
METHOD 8020			--	
DILUTION FACTOR *			1	
DATE ANALYZED			07-02-91	
Benzene		2.5	ND	ug/Kg
Ethylbenzene		2.5	ND	ug/Kg
Toluene		2.5	ND	ug/Kg
Xylenes, total		2.5	ND	ug/Kg
PETROLEUM HYDROCARBONS				
EXTRACTABLE (SOIL)				
DILUTION FACTOR *			1	
DATE EXTRACTED			06-27-91	
DATE ANALYZED			06-30-91	
METHOD GC FID/3550			--	
as Diesel		1	11	mg/Kg
as Motor Oil		10	32	mg/Kg

** Note: The positive result for the PETROLEUM HYDROCARBONS as Gasoline analysis on this sample appears to be a heavier hydrocarbon than gasoline.



NET Pacific, Inc.

Client Acct: 281
 Client Name: Harding Lawson Associates
 NET Log No: 8242

Date: 07-16-91
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Ref: Wareham/2855 Cypress St., Job: 18452,047.02

SAMPLE DESCRIPTION: 91062002 06-20-91 1150
 LAB Job No: (-89638)

Parameter	Method	Reporting Limit	Results	Units
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METHOD 8270

DATE EXTRACTED			06-26-91	
DATE ANALYZED			06-28-91	
DILUTION FACTOR *			1	
Acenaphthene		330	ND	ug/Kg
Acenaphthylene		330	ND	ug/Kg
Aldrin		1600	ND	ug/Kg
Anthracene		330	ND	ug/Kg
Benzidine		1600	ND	ug/Kg
Benzo(a)anthracene		330	ND	ug/Kg
Benzo(b)fluoranthene		330	ND	ug/Kg
Benzo(k)fluoranthene		330	ND	ug/Kg
Benzo(a)pyrene		330	ND	ug/Kg
Benzo(g,h,i)perylene		330	ND	ug/Kg
Benzoic Acid		1600	ND	ug/Kg
Benzy1 Alcohol		330	ND	ug/Kg
Butyl benzyl phthalate		330	ND	ug/Kg
delta-BHC		1600	ND	ug/Kg
gamma-BHC		1600	ND	ug/Kg
bis(2-chloroethyl)ether		330	ND	ug/Kg
bis(2-chloroethoxy)methane		330	ND	ug/Kg
bis(2-chloroisopropyl)ethe		330	ND	ug/Kg
bis(2-ethylhexyl)phthalate		330	ND	ug/Kg
4-Bromophenyl phenyl ether		330	ND	ug/Kg
4-Chloroaniline		330	ND	ug/Kg
2-Chloronaphthalene		330	ND	ug/Kg
4-Chlorophenyl phenyl ethe		330	ND	ug/Kg
Chrysene		330	ND	ug/Kg
4,4'-DDD		1600	ND	ug/Kg
4,4'-DDE		1600	ND	ug/Kg
4,4'-DDT		1600	ND	ug/Kg
Dibenzo(a,h)anthracene		330	ND	ug/Kg
Dibenzofuran		330	ND	ug/Kg
Di-n-butylphthalate		330	ND	ug/Kg
1,2-Dichlorobenzene		330	ND	ug/Kg
1,3-Dichlorobenzene		330	ND	ug/Kg
1,4-Dichlorobenzene		330	ND	ug/Kg
3,3'-Dichlorobenzidine		660	ND	ug/Kg
Dieldrin		1600	ND	ug/Kg
Diethylphthalate		330	ND	ug/Kg
Dimethyl phthalate		330	ND	ug/Kg
2,4-Dinitrotoluene		330	ND	ug/Kg
2,6-Dinitrotoluene		330	ND	ug/Kg
Di-n-octyl phthalate		330	ND	ug/Kg
Endrin aldehyde		1600	ND	ug/Kg



Client Acct: 281
 Client Name: Harding Lawson Associates
 NET Log No: 8242

Date: 07-16-91
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NET Pacific, Inc.

Ref: Wareham/2855 Cypress St., Job: 18452,047.02

SAMPLE DESCRIPTION: 91062002 06-20-91 1150
 LAB Job No: (-89638)

Parameter	Method	Reporting Limit	Results	Units
Fluoranthene		330	ND	ug/Kg
Fluorene		330	ND	ug/Kg
Heptachlor		1600	ND	ug/Kg
Heptachlor epoxide		1600	ND	ug/Kg
Hexachlorobenzene		330	ND	ug/Kg
Hexachlorobutadiene		330	ND	ug/Kg
Hexachlorocyclopentadiene		330	ND	ug/Kg
Hexachloroethane		330	ND	ug/Kg
Indeno(1,2,3-cd)pyrene		330	ND	ug/Kg
Isophorone		330	ND	ug/Kg
2-Methylnaphthalene		330	ND	ug/Kg
Naphthalene		330	ND	ug/Kg
2-Nitroaniline		1600	ND	ug/Kg
3-Nitroaniline		1600	ND	ug/Kg
4-Nitroaniline		1600	ND	ug/Kg
Nitrobenzene		330	ND	ug/Kg
N-Nitroso-Di-N-propylamine		330	ND	ug/Kg
N-Nitrosodiphenylamine		330	ND	ug/Kg
Phenanthrene		330	ND	ug/Kg
Pyrene		330	ND	ug/Kg
1,2,4-Trichlorobenzene		330	ND	ug/Kg
4-Chloro-3-methylphenol		330	ND	ug/Kg
2-Chlorophenol		330	ND	ug/Kg
2,4-Dichlorophenol		330	ND	ug/Kg
2,4-Dimethylphenol		330	ND	ug/Kg
2,4-Dinitrophenol		1600	ND	ug/Kg
4,6-Dinitro-2-methylphenol		1600	ND	ug/Kg
2-Nitrophenol		330	ND	ug/Kg
4-Nitrophenol		1600	ND	ug/Kg
Pentachlorophenol		1600	ND	ug/Kg
Phenol		330	ND	ug/Kg
2,4,6-Trichlorophenol		330	ND	ug/Kg
2-Methylphenol		330	ND	ug/Kg
4-Methylphenol		330	ND	ug/Kg
2,4,5-Trichlorophenol		1600	ND	ug/Kg
SURROGATE RESULTS			--	
Nitrobenzene-d5			48	% Rec.
2-Fluorobiphenyl			58	% Rec.
p-terphenyl-d14			81	% Rec.
Phenol-d5			50	% Rec.
2-Fluorophenol			43	% Rec.
2,4,6-Tribromophenol			75	% Rec.



Client Acct: 281
 Client Name: Harding Lawson Associates
 NET Log No: 8242

Date: 07-16-91
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NET Pacific, Inc.

Ref: Wareham/2855 Cypress St., Job: 18452,047.02

SAMPLE DESCRIPTION: 91062101 06-21-91 1142
 LAB Job No: (-89639)

Parameter	Method	Reporting Limit	Results	Units
Oil & Grease(Total)	5520E	50	120	mg/Kg
Cadmium	6010	2	ND	mg/Kg
Chromium	6010	2	65	mg/Kg
Lead (EPA 7421)	7421	0.2	5.1	mg/Kg
Nickel	6010	5	70	mg/Kg
Zinc	6010	2	57	mg/Kg

METHOD 8010

DATE ANALYZED	07-02-91		
DILUTION FACTOR*	1		
Bromodichloromethane	2.0	ND	ug/Kg
Bromoform	2.0	ND	ug/Kg
Bromomethane	2.0	ND	ug/Kg
Carbon tetrachloride	2.0	ND	ug/Kg
Chlorobenzene	2.0	12	ug/Kg
Chloroethane	2.0	ND	ug/Kg
2-Chloroethylvinyl ether	5.0	ND	ug/Kg
Chloroform	2.0	ND	ug/Kg
Chloromethane	2.0	ND	ug/Kg
Dibromochloromethane	2.0	ND	ug/Kg
1,2-Dichlorobenzene	2.0	ND	ug/Kg
1,3-Dichlorobenzene	2.0	ND	ug/Kg
1,4-Dichlorobenzene	2.0	ND	ug/Kg
Dichlorodifluoromethane	2.0	ND	ug/Kg
1,1-Dichloroethane	2.0	ND	ug/Kg
1,2-Dichloroethane	2.0	ND	ug/Kg
1,1-Dichloroethene	2.0	ND	ug/Kg
trans-1,2-Dichloroethene	2.0	ND	ug/Kg
1,2-Dichloropropane	2.0	ND	ug/Kg
cis-1,3-Dichloropropene	2.0	ND	ug/Kg
trans-1,3-Dichloropropene	2.0	ND	ug/Kg
Methylene Chloride	50	ND	ug/Kg
1,1,2,2-Tetrachloroethane	2.0	ND	ug/Kg
Tetrachloroethene	2.0	ND	ug/Kg
1,1,1-Trichloroethane	2.0	ND	ug/Kg
1,1,2-Trichloroethane	2.0	ND	ug/Kg
Trichloroethene	2.0	ND	ug/Kg
Trichlorofluoromethane	2.0	ND	ug/Kg
Vinyl chloride	2.0	ND	ug/Kg



NET Pacific, Inc.

Client Acct: 281
Client Name: Harding Lawson Associates
NET Log No: 8242

Date: 07-16-91
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Ref: Wareham/2855 Cypress St., Job: 18452,047.02

SAMPLE DESCRIPTION: 91062101 06-21-91 1142
LAB Job No: (-89639)

Parameter	Method	Reporting Limit	Results	Units
PETROLEUM HYDROCARBONS				
VOLATILE (SOIL)			--	
DILUTION FACTOR *			5	
DATE ANALYZED			07-03-91	
METHOD GC FID/5030			--	
as Gasoline			1	mg/Kg
METHOD 8020			--	
DILUTION FACTOR *			20	
DATE ANALYZED			07-06-91	
Benzene			2.5	ug/Kg
Ethylbenzene			2.5	ug/Kg
Toluene			2.5	ug/Kg
Xylenes, total			2.5	ug/Kg
PETROLEUM HYDROCARBONS				
EXTRACTABLE (SOIL)			--	
DILUTION FACTOR *			1	
DATE EXTRACTED			06-27-91	
DATE ANALYZED			06-30-91	
METHOD GC FID/3550			--	
as Diesel			1	mg/Kg
as Motor Oil			10	mg/Kg



NET Pacific, Inc.

Client Acct: 281
 Client Name: Harding Lawson Associates
 NET Log No: 8242

Date: 07-16-91
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Ref: Wareham/2855 Cypress St., Job: 18452,047.02

SAMPLE DESCRIPTION: 91062101 06-21-91 1142
 LAB Job No: (-89639)

Parameter	Method	Reporting Limit	Results	Units
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METHOD 8270

DATE EXTRACTED			06-26-91	
DATE ANALYZED			06-28-91	
DILUTION FACTOR *			1	
Acenaphthene		330	ND	ug/Kg
Acenaphthylene		330	ND	ug/Kg
Aldrin		1600	ND	ug/Kg
Anthracene		330	ND	ug/Kg
Benzidine		1600	ND	ug/Kg
Benzo(a)anthracene		330	ND	ug/Kg
Benzo(b)fluoranthene		330	ND	ug/Kg
Benzo(k)fluoranthene		330	ND	ug/Kg
Benzo(a)pyrene		330	ND	ug/Kg
Benzo(g,h,i)perylene		330	ND	ug/Kg
Benzoic Acid		1600	ND	ug/Kg
Benzyl Alcohol		330	ND	ug/Kg
Butyl benzyl phthalate		330	ND	ug/Kg
delta-BHC		1600	ND	ug/Kg
gamma-BHC		1600	ND	ug/Kg
bis(2-chloroethyl)ether		330	ND	ug/Kg
bis(2-chloroethoxy)methane		330	ND	ug/Kg
bis(2-chloroisopropyl)ethe		330	ND	ug/Kg
bis(2-ethylhexyl)phthalate		330	ND	ug/Kg
4-Bromophenyl phenyl ether		330	ND	ug/Kg
4-Chloroaniline		330	ND	ug/Kg
2-Chloronaphthalene		330	ND	ug/Kg
4-Chlorophenyl phenyl ethe		330	ND	ug/Kg
Chrysene		330	ND	ug/Kg
4,4'-DDD		1600	ND	ug/Kg
4,4'-DDE		1600	ND	ug/Kg
4,4'-DDT		1600	ND	ug/Kg
Dibenzo(a,h)anthracene		330	ND	ug/Kg
Dibenzofuran		330	ND	ug/Kg
Di-n-butylphthalate		330	ND	ug/Kg
1,2-Dichlorobenzene		330	ND	ug/Kg
1,3-Dichlorobenzene		330	ND	ug/Kg
1,4-Dichlorobenzene		330	ND	ug/Kg
3,3'-Dichlorobenzidine		660	ND	ug/Kg
Dieldrin		1600	ND	ug/Kg
Diethylphthalate		330	ND	ug/Kg
Dimethyl phthalate		330	ND	ug/Kg
2,4-Dinitrotoluene		330	ND	ug/Kg
2,6-Dinitrotoluene		330	ND	ug/Kg
Di-n-octyl phthalate		330	ND	ug/Kg
Endrin aldehyde		1600	ND	ug/Kg



NET Pacific, Inc.

Client Acct: 281

Client Name: Harding Lawson Associates

NET Log No: 8242

Date: 07-16-91

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Ref: Wareham/2855 Cypress St., Job: 18452,047.02

SAMPLE DESCRIPTION: 91062101 06-21-91 1142

LAB Job No: (-89639)

Parameter	Method	Reporting Limit	Results	Units
Fluoranthene		330	ND	ug/Kg
Fluorene		330	ND	ug/Kg
Heptachlor		1600	ND	ug/Kg
Heptachlor epoxide		1600	ND	ug/Kg
Hexachlorobenzene		330	ND	ug/Kg
Hexachlorobutadiene		330	ND	ug/Kg
Hexachlorocyclopentadiene		330	ND	ug/Kg
Hexachloroethane		330	ND	ug/Kg
Indeno(1,2,3-cd)pyrene		330	ND	ug/Kg
Isophorone		330	ND	ug/Kg
2-Methylnaphthalene		330	440	ug/Kg
Naphthalene		330	870	ug/Kg
2-Nitroaniline		1600	ND	ug/Kg
3-Nitroaniline		1600	ND	ug/Kg
4-Nitroaniline		1600	ND	ug/Kg
Nitrobenzene		330	ND	ug/Kg
N-Nitroso-Di-N-propylamine		330	ND	ug/Kg
N-Nitrosodiphenylamine		330	ND	ug/Kg
Phenanthrene		330	ND	ug/Kg
Pyrene		330	ND	ug/Kg
1,2,4-Trichlorobenzene		330	ND	ug/Kg
4-Chloro-3-methylphenol		330	ND	ug/Kg
2-Chlorophenol		330	ND	ug/Kg
2,4-Dichlorophenol		330	ND	ug/Kg
2,4-Dimethylphenol		330	ND	ug/Kg
2,4-Dinitrophenol		1600	ND	ug/Kg
4,6-Dinitro-2-methylphenol		1600	ND	ug/Kg
2-Nitrophenol		330	ND	ug/Kg
4-Nitrophenol		1600	ND	ug/Kg
Pentachlorophenol		1600	ND	ug/Kg
Phenol		330	ND	ug/Kg
2,4,6-Trichlorophenol		330	ND	ug/Kg
2-Methylphenol		330	ND	ug/Kg
4-Methylphenol		330	ND	ug/Kg
2,4,5-Trichlorophenol		1600	ND	ug/Kg
SURROGATE RESULTS			--	
Nitrobenzene-d5			43	% Rec.
2-Fluorobiphenyl			53	% Rec.
p-terphenyl-d14			74	% Rec.
Phenol-d5			46	% Rec.
2-Fluorophenol			39	% Rec.
2,4,6-Tribromophenol			73	% Rec.



NET Pacific, Inc.

Client Acct: 281
Client Name: Harding Lawson Associates
NET Log No: 8242w

Date: 07-16-91
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Ref: Wareham/2855 Cypress St., Job: 18452,047.02

SAMPLE DESCRIPTION: 91062003 06-20-91 1215
LAB Job No: (-89640)

Parameter	Method	Reporting Limit	Results	Units
Cadmium	6010	0.02	ND	mg/L
Chromium, total	6010	0.02	0.21	mg/L
Lead (EPA 7421)	7421	0.002	0.13	mg/L
Nickel	6010	0.05	0.25	mg/L
Zinc	6010	0.02	0.30	mg/L

METHOD 601

DATE ANALYZED	07-02-91
DILUTION FACTOR*	1
Bromodichloromethane	0.4 ND ug/L
Bromoform	0.4 ND ug/L
Bromomethane	0.4 ND ug/L
Carbon tetrachloride	0.4 ND ug/L
Chlorobenzene	0.4 ND ug/L
Chloroethane	0.4 ND ug/L
2-Chloroethylvinyl ether	1.0 ND ug/L
Chloroform	0.4 ND ug/L
Chloromethane	0.4 ND ug/L
Dibromochloromethane	0.4 ND ug/L
1,2-Dichlorobenzene	0.4 ND ug/L
1,3-Dichlorobenzene	0.4 ND ug/L
1,4-Dichlorobenzene	0.4 ND ug/L
Dichlorodifluoromethane	0.4 ND ug/L
1,1-Dichloroethane	0.4 ND ug/L
1,2-Dichloroethane	0.4 ND ug/L
1,1-Dichloroethene	0.4 ND ug/L
trans-1,2-Dichloroethene	0.4 ND ug/L
1,2-Dichloropropane	0.4 ND ug/L
cis-1,3-Dichloropropene	0.4 ND ug/L
trans-1,3-Dichloropropene	0.4 ND ug/L
Methylene Chloride	10 ND ug/L
1,1,2,2-Tetrachloroethane	0.4 ND ug/L
Tetrachloroethene	0.4 ND ug/L
1,1,1-Trichloroethane	0.4 ND ug/L
1,1,2-Trichloroethane	0.4 ND ug/L
Trichloroethene	0.4 ND ug/L
Trichlorofluoromethane	0.4 ND ug/L
Vinyl chloride	2.0 ND ug/L



NET Pacific, Inc.

Client Acct: 281
Client Name: Harding Lawson Associates
NET Log No: 8242w

Date: 07-16-91
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Ref: Wareham/2855 Cypress St., Job: 18452,047.02

SAMPLE DESCRIPTION: 91062003 06-20-91 1215
LAB Job No: (-89640)

Parameter	Method	Reporting Limit	Results	Units
PETROLEUM HYDROCARBONS				
VOLATILE (WATER)				
DILUTION FACTOR *			100	
DATE ANALYZED			07-04-91	
METHOD GC FID/5030			--	
as Gasoline		0.05	58	mg/L
METHOD 602			--	
DILUTION FACTOR *			100	
DATE ANALYZED			07-04-91	
Benzene		0.5	290	ug/L
Ethylbenzene		0.5	78	ug/L
Toluene		0.5	360	ug/L
Xylenes, total		0.5	480	ug/L
PETROLEUM HYDROCARBONS				
EXTRACTABLE (WATER)				
DILUTION FACTOR *			1	
DATE EXTRACTED			06-26-91	
DATE ANALYZED			06-27-91	
METHOD GC FID/3510			--	
as Diesel		0.05	1.3	mg/L
as Motor Oil		0.5	ND	mg/L



NET Pacific, Inc.

Client Acct: 281
 Client Name: Harding Lawson Associates
 NET Log No: 8242w

Date: 07-16-91
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Ref: Wareham/2855 Cypress St., Job: 18452,047.02

SAMPLE DESCRIPTION: 91062003 06-20-91 1215
 LAB Job No: (-89640)

Parameter	Method	Reporting Limit	Results	Units
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METHOD 8270

DATE EXTRACTED			06-28-91	
DATE ANALYZED			07-01-91	
DILUTION FACTOR *			2	
Acenaphthene		10	ND	ug/L
Acenaphthylene		10	ND	ug/L
Aldrin		50	ND	ug/L
Anthracene		10	ND	ug/L
Benzidine		44	ND	ug/L
Benzo(a)anthracene		10	ND	ug/L
Benzo(b)fluoranthene		10	ND	ug/L
Benzo(k)fluoranthene		10	ND	ug/L
Benzo(a)pyrene		10	ND	ug/L
Benzo(g,h,i)perylene		10	ND	ug/L
Benzoic Acid		50	ND	ug/L
Benzyl Alcohol		10	ND	ug/L
Butyl benzyl phthalate		10	ND	ug/L
delta-BHC		50	ND	ug/L
gamma-BHC		50	ND	ug/L
bis(2-chloroethyl) ether		10	ND	ug/L
bis(2-chloroethoxy)methane		10	ND	ug/L
bis(2-chloroisopropyl)ethe		10	ND	ug/L
bis(2-ethylhexyl)phthalate		10	ND	ug/L
4-Bromophenyl phenyl ether		10	ND	ug/L
4-Chloroaniline		10	ND	ug/L
2-Chloronaphthalene		10	ND	ug/L
4-Chlorophenyl phenyl ethe		10	ND	ug/L
Chrysene		10	ND	ug/L
4,4-DDD		50	ND	ug/L
4,4-DDE		50	ND	ug/L
4,4-DDT		50	ND	ug/L
Dibenzo(a,h)anthracene		10	ND	ug/L
Dibenzofuran		10	ND	ug/L
Di-n-butylphthalate		10	ND	ug/L
1,2-Dichlorobenzene		10	ND	ug/L
1,3-Dichlorobenzene		10	ND	ug/L
1,4-Dichlorobenzene		10	ND	ug/L
3,3'-Dichlorobenzidine		20	ND	ug/L
Dieldrin		50	ND	ug/L
Diethylphthalate		10	ND	ug/L
Dimethyl phthalate		10	ND	ug/L
2,4-Dinitrotoluene		10	ND	ug/L
2,6-Dinitrotoluene		10	ND	ug/L
Di-n-octyl phthalate		10	ND	ug/L
Endrin aldehyde		50	ND	ug/L



NET Pacific, Inc.

Client Acct: 281

Client Name: Harding Lawson Associates

NET Log No: 8242w

Date: 07-16-91

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Ref: Wareham/2855 Cypress St., Job: 18452,047.02

SAMPLE DESCRIPTION: 91062003 06-20-91 1215

LAB Job No: (-89640)

Parameter	Method	Reporting Limit	Results	Units
Fluoranthene		10	ND	ug/L
Fluorene		10	ND	ug/L
Heptachlor		50	ND	ug/L
Heptachlor epoxide		50	ND	ug/L
Hexachlorobenzene		10	ND	ug/L
Hexachlorobutadiene		10	ND	ug/L
Hexachlorocyclopentadiene		10	ND	ug/L
Hexachloroethane		10	ND	ug/L
Indeno(1,2,3-cd)pyrene		10	ND	ug/L
Isophorone		10	ND	ug/L
2-Methylnaphthalene		10	ND	ug/L
Naphthalene		10	ND	ug/L
2-Nitroaniline		50	ND	ug/L
3-Nitroaniline		50	ND	ug/L
4-Nitroaniline		50	ND	ug/L
Nitrobenzene		10	ND	ug/L
N-Nitroso-Di-N-propylamine		10	ND	ug/L
N-nitrosodiphenylamine		10	ND	ug/L
Phenanthrene		10	ND	ug/L
Pyrene		10	ND	ug/L
1,2,4-Trichlorobenzene		10	ND	ug/L
4-Chloro-3-methylphenol		10	ND	ug/L
2-Chlorophenol		10	ND	ug/L
2,4-Dichlorophenol		10	ND	ug/L
2,4-Dimethylphenol		10	ND	ug/L
2,4-Dinitrophenol		50	ND	ug/L
4,6-Dinitro-2-methylphenol		50	ND	ug/L
2-Nitrophenol		10	ND	ug/L
4-Nitrophenol		50	ND	ug/L
Pentachlorophenol		50	ND	ug/L
Phenol		10	67	ug/L
2,4,6-Trichlorophenol		10	ND	ug/L
2-Methylphenol		10	ND	ug/L
4-Methylphenol		10	ND	ug/L
2,4,5-Trichlorophenol		50	ND	ug/L
SURROGATE RESULTS			--	
Nitrobenzene-d5			49	% Rec.
2-Fluorobiphenyl			49	% Rec.
p-terphenyl-d14			44	% Rec.
Phenol-d5			57	% Rec.
2-Fluorophenol			54	% Rec.
2,4,6-Tribromophenol			44	% Rec.



Client Acct: 281
 Client Name: Harding Lawson Associates
 NET Log No: 8242w

Date: 07-16-91
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NET Pacific, Inc.

Ref: Wareham/2855 Cypress St., Job: 18452,047.02

SAMPLE DESCRIPTION: 91062004 06-20-91 1100
 LAB Job No: (-89641)

Parameter	Method	Reporting Limit	Results	Units
Oil & Grease(Total)	5520B	5	450,000	mg/L
Cadmium	6010	0.02	3	mg/Kg
Chromium, total	6010	0.02	21	mg/Kg
Lead (EPA 7421)	7421	0.002	640	mg/Kg
Nickel	6010	0.05	30	mg/Kg
Zinc	6010	0.02	870	mg/Kg

METHOD 601

DATE ANALYZED	07-02-91
DILUTION FACTOR*	1
Bromodichloromethane	0.4 ND ug/L
Bromoform	0.4 ND ug/L
Bromomethane	0.4 ND ug/L
Carbon tetrachloride	0.4 ND ug/L
Chlorobenzene	0.4 32 ug/L
Chloroethane	0.4 ND ug/L
2-Chloroethylvinyl ether	1.0 ND ug/L
Chloroform	0.4 ND ug/L
Chloromethane	0.4 ND ug/L
Dibromochloromethane	0.4 ND ug/L
1,2-Dichlorobenzene	0.4 ND ug/L
1,3-Dichlorobenzene	0.4 ND ug/L
1,4-Dichlorobenzene	0.4 ND ug/L
Dichlorodifluoromethane	0.4 ND ug/L
1,1-Dichloroethane	0.4 ND ug/L
1,2-Dichloroethane	0.4 610 ug/L
1,1-Dichloroethene	0.4 ND ug/L
trans-1,2-Dichloroethene	0.4 ND ug/L
1,2-Dichloropropane	0.4 ND ug/L
cis-1,3-Dichloropropene	0.4 ND ug/L
trans-1,3-Dichloropropene	0.4 ND ug/L
Methylene Chloride	10 12,000 ug/L
1,1,2,2-Tetrachloroethane	0.4 ND ug/L
Tetrachloroethene	0.4 10 ug/L
1,1,1-Trichloroethane	0.4 ND ug/L
1,1,2-Trichloroethane	0.4 ND ug/L
Trichloroethene	0.4 9.5 ug/L
Trichlorofluoromethane	0.4 ND ug/L
Vinyl chloride	2.0 ND ug/L



NET Pacific, Inc.

Client Acct: 281
Client Name: Harding Lawson Associates
NET Log No: 8242w

Date: 07-16-91
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Ref: Wareham/2855 Cypress St., Job: 18452,047.02

SAMPLE DESCRIPTION: 91062004 06-20-91 1100
LAB Job No: (-89641**)

Parameter	Method	Reporting Limit	Results	Units
PETROLEUM HYDROCARBONS				
VOLATILE (WATER)				
DILUTION FACTOR *			1,000,000	
DATE ANALYZED			07-03-91	
METHOD GC FID/5030				
as Gasoline			0.05	130,000
METHOD 602				mg/L
DILUTION FACTOR *			1,000,000	
DATE ANALYZED			07-03-91	
Benzene			0.5	ND
Ethylbenzene			0.5	ND
Toluene			0.5	850,000
Xylenes, total			0.5	ND
PETROLEUM HYDROCARBONS				
EXTRACTABLE (WATER)				
DILUTION FACTOR *			500	
DATE EXTRACTED			06-27-91	
DATE ANALYZED			06-28-91	
METHOD GC FID/3510				
as Diesel			0.05	290,000
as Motor Oil			0.5	460,000
				mg/Kg

** Note: The positive result for the PETROLEUM HYDROCARBONS as Gasoline analysis on this sample appears to be a heavier hydrocarbon than gasoline.



NET Pacific, Inc.

Client Acct: 281
 Client Name: Harding Lawson Associates
 NET Log No: 8242w

Date: 07-16-91
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Ref: Wareham/2855 Cypress St., Job: 18452,047.02

SAMPLE DESCRIPTION: 91062004 06-20-91 1100
 LAB Job No: (-89641)

Parameter	Method	Reporting Limit	Results	Units
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METHOD 8270

DATE EXTRACTED			06-28-91	
DATE ANALYZED			07-01-91	
DILUTION FACTOR *			10	
Acenaphthene		10	ND	ug/L
Acenaphthylene		10	ND	ug/L
Aldrin		50	ND	ug/L
Anthracene		10	ND	ug/L
Benzidine		44	ND	ug/L
Benzo(a)anthracene		10	ND	ug/L
Benzo(b)fluoranthene		10	ND	ug/L
Benzo(k)fluoranthene		10	ND	ug/L
Benzo(a)pyrene		10	ND	ug/L
Benzo(g,h,i)perylene		10	ND	ug/L
Benzoic Acid		50	ND	ug/L
Benzyl Alcohol		10	ND	ug/L
Butyl benzyl phthalate		10	ND	ug/L
delta-BHC		50	ND	ug/L
gamma-BHC		50	ND	ug/L
bis(2-chloroethyl) ether		10	ND	ug/L
bis(2-chloroethoxy)methane		10	ND	ug/L
bis(2-chloroisopropyl)ethe		10	ND	ug/L
bis(2-ethylhexyl)phthalate		10	ND	ug/L
4-Bromophenyl phenyl ether		10	ND	ug/L
4-Chloroaniline		10	ND	ug/L
2-Chloronaphthalene		10	ND	ug/L
4-Chlorophenyl phenyl ethe		10	ND	ug/L
Chrysene		10	ND	ug/L
4,4-DDD		50	ND	ug/L
4,4-DDE		50	ND	ug/L
4,4-DDT		50	ND	ug/L
Dibenzo(a,h)anthracene		10	ND	ug/L
Dibenzofuran		10	ND	ug/L
Di-n-butylphthalate		10	ND	ug/L
1,2-Dichlorobenzene		10	ND	ug/L
1,3-Dichlorobenzene		10	ND	ug/L
1,4-Dichlorobenzene		10	ND	ug/L
3,3'-Dichlorobenzidine		20	ND	ug/L
Dieldrin		50	ND	ug/L
Diethylphthalate		10	ND	ug/L
Dimethyl phthalate		10	ND	ug/L
2,4-Dinitrotoluene		10	ND	ug/L
2,6-Dinitrotoluene		10	ND	ug/L
Di-n-octyl phthalate		10	ND	ug/L
Endrin aldehyde		50	ND	ug/L



Client Acct: 281
 Client Name: Harding Lawson Associates
 NET Log No: 8242w

Date: 07-16-91
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NET Pacific, Inc.

Ref: Wareham/2855 Cypress St., Job: 18452,047.02

SAMPLE DESCRIPTION: 91062004 06-20-91 1100
 LAB Job No: (-89641**)

Parameter	Method	Reporting Limit	Results	Units
Fluoranthene		10	ND	ug/L
Fluorene		10	ND	ug/L
Heptachlor		50	ND	ug/L
Heptachlor epoxide		50	ND	ug/L
Hexachlorobenzene		10	ND	ug/L
Hexachlorobutadiene		10	ND	ug/L
Hexachlorocyclopentadiene		10	ND	ug/L
Hexachloroethane		10	ND	ug/L
Indeno(1,2,3-cd)pyrene		10	ND	ug/L
Isophorone		10	ND	ug/L
2-Methylnaphthalene		10	87,000	ug/L
Naphthalene		10	ND	ug/L
2-Nitroaniline		50	ND	ug/L
3-Nitroaniline		50	ND	ug/L
4-Nitroaniline		50	ND	ug/L
Nitrobenzene		10	ND	ug/L
N-Nitroso-Di-N-propylamine		10	ND	ug/L
N-nitrosodiphenylamine		10	ND	ug/L
Phenanthrene		10	ND	ug/L
Pyrene		10	ND	ug/L
1,2,4-Trichlorobenzene		10	ND	ug/L
4-Chloro-3-methylphenol		10	ND	ug/L
2-Chlorophenol		10	ND	ug/L
2,4-Dichlorophenol		10	ND	ug/L
2,4-Dimethylphenol		10	ND	ug/L
2,4-Dinitrophenol		50	ND	ug/L
4,6-Dinitro-2-methylphenol		50	ND	ug/L
2-Nitrophenol		10	ND	ug/L
4-Nitrophenol		50	ND	ug/L
Pentachlorophenol		50	ND	ug/L
Phenol		10	170,000	ug/L
2,4,6-Trichlorophenol		10	ND	ug/L
2-Methylphenol		10	ND	ug/L
4-Methylphenol		10	160,000	ug/L
2,4,5-Trichlorophenol		50	ND	ug/L
SURROGATE RESULTS				
Nitrobenzene-d5			NA	% Rec.
2-Fluorobiphenyl			NA	% Rec.
p-terphenyl-d14			NA	% Rec.
Phenol-d5			NA	% Rec.
2-Fluorophenol			NA	% Rec.
2,4,6-Tribromophenol			NA	% Rec.

** Note: This sample was analyzed as a dilute and shoot due to the oil matrix and surrogate recoveries were not analyzed (NA).



NET Pacific, Inc.

Client Acct: 281
Client Name: Harding Lawson Associates
NET Log No: 8242w

Date: 07-16-91
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Ref: Wareham/2855 Cypress St., Job: 18452,047.02

SAMPLE DESCRIPTION: 91062005 06-20-91 1115
LAB Job No: (-89642)

Parameter	Method	Reporting Limit	Results	Units
Cadmium	6010	0.02	ND	mg/L
Chromium, total	6010	0.02	ND	mg/L
Lead (EPA 7421)	7421	0.002	0.040	mg/L
Nickel	6010	0.05	0.09	mg/L
Zinc	6010	0.02	0.63	mg/L

METHOD 601

DATE ANALYZED		07-02-91	
DILUTION FACTOR*		1	
Bromodichloromethane	0.4	ND	ug/L
Bromoform	0.4	ND	ug/L
Bromomethane	0.4	ND	ug/L
Carbon tetrachloride	0.4	ND	ug/L
Chlorobenzene	0.4	ND	ug/L
Chloroethane	0.4	ND	ug/L
2-Chloroethylvinyl ether	1.0	ND	ug/L
Chloroform	0.4	ND	ug/L
Chloromethane	0.4	ND	ug/L
Dibromochloromethane	0.4	ND	ug/L
1,2-Dichlorobenzene	0.4	ND	ug/L
1,3-Dichlorobenzene	0.4	ND	ug/L
1,4-Dichlorobenzene	0.4	ND	ug/L
Dichlorodifluoromethane	0.4	ND	ug/L
1,1-Dichloroethane	0.4	ND	ug/L
1,2-Dichloroethane	0.4	6.4	ug/L
1,1-Dichloroethene	0.4	ND	ug/L
trans-1,2-Dichloroethene	0.4	ND	ug/L
1,2-Dichloropropane	0.4	ND	ug/L
cis-1,3-Dichloropropene	0.4	ND	ug/L
trans-1,3-Dichloropropene	0.4	ND	ug/L
Methylene Chloride	10	ND	ug/L
1,1,2,2-Tetrachloroethane	0.4	ND	ug/L
Tetrachloroethene	0.4	ND	ug/L
1,1,1-Trichloroethane	0.4	ND	ug/L
1,1,2-Trichloroethane	0.4	ND	ug/L
Trichloroethene	0.4	ND	ug/L
Trichlorofluoromethane	0.4	ND	ug/L
Vinyl chloride	2.0	ND	ug/L



NET Pacific, Inc.

Client Acct: 281
Client Name: Harding Lawson Associates
NET Log No: 8242w

Date: 07-16-91
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Ref: Wareham/2855 Cypress St., Job: 18452,047.02

SAMPLE DESCRIPTION: 91062005 06-20-91 1115
LAB Job No: (-89642**)

Parameter	Method	Reporting Limit	Results	Units
PETROLEUM HYDROCARBONS				
VOLATILE (WATER)			--	
DILUTION FACTOR *			100	
DATE ANALYZED			07-04-91	
METHOD GC FID/5030			--	
as Gasoline		0.05	53	mg/L
METHOD 602			--	
DILUTION FACTOR *			100	
DATE ANALYZED			07-04-91	
Benzene		0.5	860	ug/L
Ethylbenzene		0.5	65	ug/L
Toluene		0.5	79	ug/L
Xylenes, total		0.5	2,000	ug/L
PETROLEUM HYDROCARBONS				
EXTRACTABLE (WATER)			--	
DILUTION FACTOR *			100	
DATE EXTRACTED			06-26-91	
DATE ANALYZED			06-28-91	
METHOD GC FID/3510			--	
as Diesel		0.05	110	mg/L
as Motor Oil		0.5	74	mg/L

** Note: The positive result for the PETROLEUM HYDROCARBONS as Diesel analysis on this sample appears to be a mixture of lighter hydrocarbon and diesel.



NET Pacific, Inc.

Client Acct: 281
Client Name: Harding Lawson Associates
NET Log No: 8242w

Date: 07-16-91
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Ref: Wareham/2855 Cypress St., Job: 18452,047.02

SAMPLE DESCRIPTION: 91062005 06-20-91 1115
LAB Job No: (-89642)

Parameter	Method	Reporting Limit	Results	Units
METHOD 8270				
DATE EXTRACTED			06-28-91	
DATE ANALYZED			07-03-91	
DILUTION FACTOR *			20	
Acenaphthene		10	ND	ug/L
Acenaphthylene		10	ND	ug/L
Aldrin		50	ND	ug/L
Anthracene		10	ND	ug/L
Benzidine		44	ND	ug/L
Benzo(a)anthracene		10	ND	ug/L
Benzo(b)fluoranthene		10	ND	ug/L
Benzo(k)fluoranthene		10	ND	ug/L
Benzo(a)pyrene		10	ND	ug/L
Benzo(g,h,i)perylene		10	ND	ug/L
Benzoic Acid		50	ND	ug/L
Benzyl Alcohol		10	ND	ug/L
Butyl benzyl phthalate		10	ND	ug/L
delta-BHC		50	ND	ug/L
gamma-BHC		50	ND	ug/L
bis(2-chloroethyl) ether		10	ND	ug/L
bis(2-chloroethoxy)methane		10	ND	ug/L
bis(2-chloroisopropyl)ethe		10	ND	ug/L
bis(2-ethylhexyl)phthalate		10	ND	ug/L
4-Bromophenyl phenyl ether		10	ND	ug/L
4-Chloroaniline		10	ND	ug/L
2-Chloronaphthalene		10	ND	ug/L
4-Chlorophenyl phenyl ethe		10	ND	ug/L
Chrysene		10	ND	ug/L
4,4-DDD		50	ND	ug/L
4,4-DDE		50	ND	ug/L
4,4-DDT		50	ND	ug/L
Dibenzo(a,h)anthracene		10	ND	ug/L
Dibenzofuran		10	ND	ug/L
Di-n-butylphthalate		10	ND	ug/L
1,2-Dichlorobenzene		10	ND	ug/L
1,3-Dichlorobenzene		10	ND	ug/L
1,4-Dichlorobenzene		10	ND	ug/L
3,3'-Dichlorobenzidine		20	ND	ug/L
Dieldrin		50	ND	ug/L
Diethylphthalate		10	ND	ug/L
Dimethyl phthalate		10	ND	ug/L
2,4-Dinitrotoluene		10	ND	ug/L
2,6-Dinitrotoluene		10	ND	ug/L
Di-n-octyl phthalate		10	ND	ug/L
Endrin aldehyde		50	ND	ug/L



Client Acct: 281
 Client Name: Harding Lawson Associates
 NET Log No: 8242w

Date: 07-16-91
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NET Pacific, Inc.

Ref: Wareham/2855 Cypress St., Job: 18452,047.02

SAMPLE DESCRIPTION: 91062005 06-20-91 1115
 LAB Job No: (-89642)

Parameter	Method	Reporting Limit	Results	Units
Fluoranthene		10	ND	ug/L
Fluorene		10	ND	ug/L
Heptachlor		50	ND	ug/L
Heptachlor epoxide		50	ND	ug/L
Hexachlorobenzene		10	ND	ug/L
Hexachlorobutadiene		10	ND	ug/L
Hexachlorocyclopentadiene		10	ND	ug/L
Hexachloroethane		10	ND	ug/L
Indeno(1,2,3-cd)pyrene		10	ND	ug/L
Isophorone		10	ND	ug/L
2-Methylnaphthalene		10	2,000	ug/L
Naphthalene		10	2,400	ug/L
2-Nitroaniline		50	ND	ug/L
3-Nitroaniline		50	ND	ug/L
4-Nitroaniline		50	ND	ug/L
Nitrobenzene		10	ND	ug/L
N-Nitroso-Di-N-propylamine		10	ND	ug/L
N-nitrosodiphenylamine		10	ND	ug/L
Phenanthrene		10	ND	ug/L
Pyrene		10	ND	ug/L
1,2,4-Trichlorobenzene		10	ND	ug/L
4-Chloro-3-methylphenol		10	ND	ug/L
2-Chlorophenol		10	ND	ug/L
2,4-Dichlorophenol		10	ND	ug/L
2,4-Dimethylphenol		10	510	ug/L
2,4-Dinitrophenol		50	ND	ug/L
4,6-Dinitro-2-methylphenol		50	ND	ug/L
2-Nitrophenol		10	ND	ug/L
4-Nitrophenol		50	ND	ug/L
Pentachlorophenol		50	ND	ug/L
Phenol		10	ND	ug/L
2,4,6-Trichlorophenol		10	ND	ug/L
2-Methylphenol		10	ND	ug/L
4-Methylphenol		10	ND	ug/L
2,4,5-Trichlorophenol		50	ND	ug/L
SURROGATE RESULTS			--	
Nitrobenzene-d5			56	% Rec.
2-Fluorobiphenyl			111	% Rec.
p-terphenyl-d14			101	% Rec.
Phenol-d5			97	% Rec.
2-Fluorophenol			85	% Rec.
2,4,6-Tribromophenol			49	% Rec.



Client Acct: 281
 Client Name: Harding Lawson Associates
 NET Log No: 8242s

Date: 07-16-91
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NET Pacific, Inc.

Ref: Wareham/2855 Cypress St., Job: 18452,047.02

SAMPLE DESCRIPTION: 91062102 06-21-91 1148
 LAB Job No: (-89643**)

Parameter	Method	Reporting Limit	Results	Units
PETROLEUM HYDROCARBONS				
VOLATILE (SOIL)				
DILUTION FACTOR *			50	
DATE ANALYZED			07-06-91	
METHOD GC FID/5030				
as Gasoline			1	240 mg/Kg
METHOD 8020				
DILUTION FACTOR *			50	
DATE ANALYZED			07-06-91	
Benzene			2.5	1,100 ug/Kg
Ethylbenzene			2.5	1,800 ug/Kg
Toluene			2.5	200 ug/Kg
Xylenes, total			2.5	5,700 ug/Kg
PETROLEUM HYDROCARBONS				
EXTRACTABLE (SOIL)				
DILUTION FACTOR *			50	
DATE EXTRACTED			06-27-91	
DATE ANALYZED			06-30-91	
METHOD GC FID/3550				
as Diesel			1	1,800 mg/Kg
as Motor Oil			10	2,000 mg/Kg

** Note: The positive result for the PETROLEUM HYDROCARBONS as Diesel analysis on this sample appears to be a mixture of lighter hydrocarbon and diesel. This sample was analyzed on 07-02-91 at a 1:100 dilution, 07-03-91 at a 1:5 dilution, and 07-06-91 at a 1:50 dilution to achieve a result within linear range of the instrument. The results from these three dates were comparable.



Client Acct: 281
 Client Name: Harding Lawson Associates
 NET Log No: 8242s

Date: 07-16-91
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NET Pacific, Inc.

Ref: Wareham/2855 Cypress St., Job: 18452,047.02

SAMPLE DESCRIPTION: 91062103 06-21-91 1220
 LAB Job No: (-89644**)

Parameter	Method	Reporting Limit	Results	Units
PETROLEUM HYDROCARBONS				
VOLATILE (SOIL)				
DILUTION FACTOR *			100	
DATE ANALYZED			07-08-91	
METHOD GC FID/5030			--	
as Gasoline	1		81	mg/Kg
METHOD 8020			--	
DILUTION FACTOR *			10	
DATE ANALYZED			07-09-91	
Benzene	2.5		ND	ug/Kg
Ethylbenzene	2.5		500	ug/Kg
Toluene	2.5		ND	ug/Kg
Xylenes, total	2.5		3,600	ug/Kg
PETROLEUM HYDROCARBONS				
EXTRACTABLE (SOIL)				
DILUTION FACTOR *			10	
DATE EXTRACTED			06-27-91	
DATE ANALYZED			06-30-91	
METHOD GC FID/3550			--	
as Diesel	1		230	mg/Kg
as Motor Oil	10		410	mg/Kg

** Note: The positive result for the PETROLEUM HYDROCARBONS as Diesel analysis on this sample appears to be a mixture of lighter hydrocarbon and diesel. This sample was analyzed five separate times for Gasoline. Each reanalysis had results which were not consistent with the previous analysis. This is possibly due to non-homogenous particulates and analyte in the sample. The results from the five analyses are listed below.

Date Analyzed	(Gasoline)(Dilution factor)	Gasoline	BTXE
07-02-91	(>20 mg/Kg*)(100) =	>2000 mg/Kg*	ND
07-03-91	(1.4 mg/Kg)(500) =	700 mg/Kg*	ND
07-06-91	Port leaked	N/A	N/A
07-08-91	(0.81 mg/Kg)(100) =	81 mg/Kg	ND
07-09-91	(28 mg/Kg*)(10) =	280 mg/Kg*	As reported.

* These samples were off-scale and not reported because the results were out of the linear range of the instrumentation. The linear range of the instruments is between 0.5 mg/Kg and 20 ug/Kg.



Client Acct: 281
 Client Name: Harding Lawson Associates
 NET Log No: 8242

Date: 07-15-91
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NET Pacific, Inc.

Ref: Wareham/2855 Cypress St., Job: 18452,047.02

QUALITY CONTROL DATA

Parameter	Reporting Limits	Units	Cal Verf Stand % Recovery	Blank Data	Spike % Recovery	Duplicate Spike % Recovery	RPD
Cadmium	2	mg/Kg	104	ND	99	97	1.5
Chromium	2	mg/Kg	102	ND	101	95	4.1
Lead	0.2	mg/Kg	102	ND	101	99	2.2
Nickel	5	mg/Kg	104	ND	100	95	3.5
Zinc	2	mg/Kg	103	ND	98	95	2.3
O&G(Total)	50	mg/Kg	88	ND	104	125	18
Diesel	1	mg/Kg	110	ND	36	43	10
Motor Oil	10	mg/Kg	98	ND	N/A	N/A	N/A
Diesel	0.05	mg/L	102	ND	50	52	3.9
Motor Oil	0.5	mg/L	87	ND	N/A	N/A	N/A
Gasoline	0.05	mg/L	114	ND	107	100	6.0
Benzene	0.5	ug/L	97	ND	98	90	7.0
Toluene	0.5	ug/L	107	ND	93	89	4.0

COMMENT: Blank Results were ND on other analytes tested.

Gasoline	0.05	mg/L	108	ND	108	106	2.0
Benzene	0.5	ug/L	102	ND	102	102	< 1
Toluene	0.5	ug/L	112	ND	97	98	1.0

COMMENT: Blank Results were ND on other analytes tested.

Benzene	2.5	ug/Kg	103	ND	98	87	2.3
Toluene	2.5	ug/Kg	108	ND	91	91	< 1

COMMENT: Blank Results were ND on other analytes tested.

Gasoline	1	mg/Kg	101	ND	98	98	< 1
Benzene	2.5	ug/Kg	105	ND	95	99	4.1
Toluene	2.5	ug/Kg	104	ND	98	100	2.0

COMMENT: Blank Results were ND on other analytes tested.

Gasoline	1	mg/Kg	96	ND	87	95	8.8
Gasoline	1	mg/Kg	104	ND	93	112	19

COMMENT: Blank Results were ND on other analytes tested.



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Date: 07-15-91

Client Name: Harding Lawson Associates

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NET Pacific, Inc.

NET Log No: 8242

Ref: Wareham/2855 Cypress St., Job: 18452,047.02

QUALITY CONTROL DATA

Parameter	Reporting Limits	Units	Cal Verf Stand % Recovery	Blank Data	Spike % Recovery	Duplicate Spike % Recovery	RPD
Chlorobenzene	2.0	ug/Kg	128	ND	131	130	< 1
1,1-Dichloroethene	2.0	ug/Kg	123	ND	118	126	6.6
Trichloroethene	2.0	ug/Kg	100	ND	103	106	2.9

COMMENT: Blank Results were ND on other analytes tested.

1,1-Dichloroethene	0.4	ug/L	123	ND	130	118	8.9
Trichloroethene	0.4	ug/L	100	ND	104	104	< 1

COMMENT: Blank Results were ND on other analytes tested.

Acenaphthene	330	ug/Kg	87	ND	104	100	4.0
1,4-Dichlorobenzene	330	ug/Kg	96	ND	66	61	8.0
Pyrene	330	ug/Kg	91	ND	271	177	42
1,2,4-Trichlorobenzene	330	ug/Kg	89	ND	96	89	7.0
2-Chlorophenol	330	ug/Kg	100	ND	71	64	11
4-Nitrophenol	1600	ug/Kg	78	ND	77	84	9.0
Phenol	330	ug/Kg	101	ND	71	64	9.0

COMMENT: Blank Results were ND on other analytes tested.

1,4-Dichlorobenzene	10	ug/L	94	ND	45	42	7.0
Pyrene	10	ug/L	87	ND	97	103	6.0
1,2,4-Trichlorobenzene	10	ug/L	93	ND	47	44	6.0
2-Chlorophenol	10	ug/L	89	ND	81	86	6.0
4-Nitrophenol	50	ug/L	108	ND	87	92	6.0
Phenol	10	ug/L	90	ND	77	80	5.0
2,4-Dinitrotoluene	10	ug/L	88	ND	78	75	4.0

COMMENT: Blank Results were ND on other analytes tested.



KEY TO ABBREVIATIONS and METHOD REFERENCES

NET Pacific, Inc.

- < : Less than; When appearing in results column indicates analyte not detected at the value following. This datum supercedes the listed Reporting Limit.
- * : Reporting Limits are a function of the dilution factor for any given sample. To obtain the actual reporting limits for this sample, multiply the stated Reporting Limits by the dilution factor (but do not multiply reported values).
- ICVS : Initial Calibration Verification Standard (External Standard).
- mean : Average; sum of measurements divided by number of measurements.
- mg/Kg (ppm) : Concentration in units of milligrams of analyte per kilogram of sample, wet-weight basis (parts per million).
- mg/L : Concentration in units of milligrams of analyte per liter of sample.
- mL/L/hr : Milliliters per liter per hour.
- MPN/100 mL : Most probable number of bacteria per one hundred milliliters of sample.
- N/A : Not applicable.
- NA : Not analyzed.
- ND : Not detected; the analyte concentration is less than applicable listed reporting limit.
- NTU : Nephelometric turbidity units.
- RPD : Relative percent difference, $100 \text{ [Value 1 - Value 2]}/\text{mean value}$.
- SNA : Standard not available.
- ug/Kg (ppb) : Concentration in units of micrograms of analyte per kilogram of sample, wet-weight basis (parts per billion).
- ug/L : Concentration in units of micrograms of analyte per liter of sample.
- umhos/cm : Micromhos per centimeter.

Method References

Methods 100 through 493: see "Methods for Chemical Analysis of Water & Wastes", U.S. EPA, 600/4-79-020, rev. 1983.

Methods 601 through 625: see "Guidelines Establishing Test Procedures for the Analysis of Pollutants" U.S. EPA, 40 CFR, Part 136, rev. 1988.

Methods 1000 through 9999: see "Test Methods for Evaluating Solid Waste", U.S. EPA SW-846, 3rd edition, 1986.

SM: see "Standard Methods for the Examination of Water & Wastewater, 16th Edition, APHA, 1985.



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CHAIN OF CUSTODY FORM

Lab: NET (8242)

Job Number: 18452,047.02
 Name/Location: Wareham / 2855 Cypress St.
 Project Manager: Mike Siembieda Recorder: Chris Rossitto
 (Signature Required)

SOURCE CODE	MATRIX					#CONTAINERS & PRESERV.				SAMPLE NUMBER OR LAB NUMBER			DATE				STATION DESCRIPTION/ NOTES
	Water	Sediment	Soil	OH	Gas/Absorbed	Unpres.	H ₂ SO ₄	HNO ₃	I/L	Yr	Wk	Seq	Yr	Mo	Dy	Time	
49			X					1	9	10	62001	9	10	620	1020		
49			X					1	9	10	62002				1150		
10	X							6	9	10	62003				1215	*	
01			X					3	9	10	62004				1100		
01			X					6	9	10	62005				1115	*	
49		X						1	9	10	62101	9	10	621	1142		
49		X						1	9	10	62102	9	10	621	1148		
49		X						4	9	10	62103	9	10	621	1220		

ANALYSIS REQUESTED												
EPA 601/8010 / CL HC	EPA 602/8020	EPA 624/8240	EPA 625/8270 / ICP METALS	EPA 8015M/TPH Gas	TPH Diesel, Motor Oil	BTEX	OLEG	5520B/E(SO3)	Metal Scan	analyze for Cd	Cr Pb Zn Ni	perm SH NP
X	X	X	X	X	X	X	X	X	X	X	X	X
X	X	X	X	X	X	X	X	X	X	X	X	X
X	X	X	X	X	X	X	X	X	X	X	X	X
X	X	X	X	X	X	X	X	X	X	X	X	X
X	X	X	X	X	X	X	X	X	X	X	X	X
X	X	X	X	X	X	X	X	X	X	X	X	X
X	X	X	X	X	X	X	X	X	X	X	X	X
X	X	X	X	X	X	X	X	X	X	X	X	X

LAB NUMBER			DEPTH IN FEET	COL MTD CD	QA CODE	MISCELLANEOUS
Yr	Wk	Seq				
						10 day TAT
						FAX results to Mike Siembieda
						*only 2 liters avail. can't do one analysis on it - don't do or G per ms to NP 6/28/16

CHAIN OF CUSTODY RECORD		
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	DATE/TIME
Chris Rossitto	Kevin Temple	6/21/16 1734
DISPATCHED BY: (Signature)	DATE/TIME	RECEIVED FOR LAB BY: (Signature)
Kevin Temple	6/21/16 1734	Kevin Temple
METHOD OF SHIPMENT		