CTTS, Inc.
toxic technology services

June 11, 1992
Project No. 92-1

Mr. Dave Delamotte
Durham Transportation
P.O. Box 948
Rosemead, California 91770

Subject: Progress Report #15
Period Covering
April 1, 1992 - June 30, 1992
19984 Meekland Avenue, Hayward, CA

Dear Mr. Delamotte:

Enclosed is the fifteenth progress report for the Phase II investigation to evaluate the extent of soil and groundwater contamination at 19984 Meekland Avenue in the unincorporated area of Alameda County, near Hayward, California.

This report covers the following topics:

Introduction
Monthly Monitoring of Groundwater Elevations
Quarterly Monitoring Well Sampling and Analysis

After your review of this document, it is recommended that a copy be sent to Ms. Juliette Shin of the Alameda County Health Care Services Department, Hazardous Materials Division. An extra copy of this report has been provided to you for this purpose.

Thank you for this opportunity to provide Durham Transportation with these environmental services. If you have any questions, please call either of the undersigned at (510) 799-1140.

Sincerely,

Lisa A. Polos, REA, CHMM
Senior Scientist
Toxic Technology Services
CTTS, Inc.

John N. Alt, CEG #1136
Consulting Geologist
Toxic Technology Services
CTTS, Inc.

REGISTERED GEOLOGIST
JOHN N. ALT
№ 1136
CERTIFIED ENGINEERING GEOLOGIST
STATE OF CALIFORNIA

Enclosure
LAP/JNA/lap

INTRODUCTION

The following is the fifteenth progress report of activities in the evaluation of the extent of soil and groundwater contamination at 19984 Meekland Avenue, in the unincorporated area of Alameda County, near Hayward, California. This report covers the period of April 1, 1991 - June 30, 1991.

The purpose of this on-going investigation is two fold; to assess the extent of soil and groundwater contamination and to characterize the contamination with regards to constituents and concentration. This investigation will result in the preparation of a remediation plan that will recommend appropriate, available technology.

MONTHLY MONITORING OF GROUNDWATER ELEVATIONS

As stated in previous reports, the groundwater gradient at the site is essentially flat. The elevation of the groundwater has been measured in the monitoring wells on site by surveying the elevation of the top of the casing and measuring the depth to groundwater using an electronic probe. The elevations are based on Alameda County benchmark BLO-MEEK located in the middle of the intersection of Blossom Way and Meekland Avenue. The depth to groundwater was measured in December of 1989, January of 1990, and then monthly since March of 1990.

The data are presented on Table 1. They indicate a very low westward to northwestward gradient. For the most part, the elevations to groundwater in the wells are within 0.1 feet and are about at the level of error in the measuring techniques. Therefore an exact gradient was not calculated. Table 1a presents the monthly odor and sheen observations recorded concurrently with the elevations to groundwater.

Figure 1 is a graphical representation of groundwater elevations over time. This indicates that the gradient is quite flat and that the water table fluctuates in response to the various seasons of the year.

QUARTERLY MONITORING WELL SAMPLING AND ANALYSIS

On April 16 and 17, 1992, the four, two inch diameter on site groundwater monitoring wells (Plate 1) were each purged of a minimum of 6 gallons of water and samples collected. The six, four inch diameter wells were each purged of a minimum of 25 gallons of water and samples collected. Bailing was conducted starting with the least contaminated well moving to wells that

have historically shown the greatest levels of contamination, using a PVC Triloc Pump. The pump was rinsed between wells with tap water. Samples were collected using a new, disposable, plastic bailer for each well. Purged water was contained in 55 gallon drums.

Sampling was conducted by Lisa Polos, REA and John Alt, CEG of Toxic Technology Services.

At the time of sample collection, the contents of the first bailer of water were inspected to assess the presence of any floating product. None of the wells, at the time of sample collection, contained floating product.

Collected samples were put into a cooled ice chest and transported to NET Pacific Laboratory in Santa Rosa, California for analysis of Total Petroleum Hydrocarbons as Gasoline and Diesel, BTEX and Volatile Halogenated Hydrocarbons.

Table 2, presented below summarizes the results from this sampling round. The NET analytical reports are presented under Appendix A..

The State of California Maximum Contaminate Level in drinking water is 0.5 ppb for 1,2-Dichloroethane, 1750 ppb for Xylenes and 1 ppb for Benzene. The recommended drinking water action level for Toluene is 100 ppb.

SUMMARY

In summary, all wells, except MW-8 and MW-11, are over the Maximum Contaminant Level (MCL) in drinking water for 1,2-Dichloroethane. All wells, except MW-4, MW-8 and MW-11 are over the MCL for Benzene. MW-1, MW-5 and MW-10 are over the MCL in drinking water for Xylenes and MW-1, MW-3, MW-5, MW-6 and MW-9 are over the recommended drinking water action level for Toluene.

Trace levels of Tetrachloroethene were found in MW-7 and MW-8. Gasoline was found in all wells except MW-8. The highest level of gasoline was found in MW-1. Petroleum hydrocarbons heavier than gasoline, but lighter than diesel were found in every well except MW-8. This seems to indicate the presence of very old gasoline.

MW-8, the on site up gradient well, contains trace levels (0.8 ppb) of Tetrachloroethene. Levels of contamination in MW-8, when present, are substantially lower than in the rest of the wells and still seem to indicate that the source of contamination was located on-site.

MW-9, the on-site down gradient well, continues to indicate

contamination, however, at levels generally lower than MW-1, MW-3 and MW-5.

Data from MW-10 and MW-11 indicate that groundwater contamination has migrated off site. However, levels of contamination in MW-10 seem to suggest the possibility of additional off site sources contributing to the contaminate plume. In the two sampling episodes that have included MW-10 and MW-11, both have resulted in indicating that levels in MW-10 are substantially higher than MW-11. MW-11 is closer to the site and exhibits contaminant levels more in keeping with the closest on site well (MW-3). Yet, contamination levels in MW-10 have been among the highest values noted.

TABLE 1

GROUNDWATER ELEVATIONS (feet above MSL)
DURHAM TRANSPORTATION--MEEKLAND PROJECT

DATE	MW1	MW3	MW4	MW5	MW6	MW7	MW8	MW9	MW10	MW11
Jan-91	25.18	25.16	25.22	25.54	25.16	25.21	.	.	.	.
Feb-91	25.44	25.38	25.45	25.39	25.40	25.46	25.48	25.40	.	.
Mar-91	27.48	27.45	29.56	26.62	27.46	27.50	27.40	27.40	.	.
Apr-91	28.15	28.09	27.99	28.04	28.00	28.02	28.06	27.99	.	.
May-91	27.18	27.12	27.16	27.17	27.11	27.19	27.19	27.13	.	.
Jun-91	26.54	26.45	26.56	26.77	26.46	26.53	26.57	26.58	.	.
Jul-91	26.12	26.04	26.05	26.13	26.04	26.10	26.13	26.04	.	.
Aug-91	25.59	25.49	25.62	25.37	25.50	25.59	25.60	25.52	.	.
Sep-91	25.15	25.18	25.18	25.49	25.06	25.16	25.18	25.15	.	.
Oct-91	24.88	24.86	24.92	25.00	24.82	24.97	24.94	24.84	.	.
Nov-91	24.96	24.90	24.97	24.94	24.87	24.94	24.96	24.89	.	.
Dec-91	24.76	24.69	24.78	24.89	24.67	24.76	24.79	24.70	.	.
Jan-92	25.39	25.31	25.28	25.48	25.31	25.37	25.37	25.32	25.16	25.90
Feb-92	28.24	28.23	28.22	28.24	28.15	28.24	28.26	28.19	28.37	28.18
Mar-92	28.46	28.54	28.46	28.49	28.40	28.46	28.59	28.42	28.32	28.41
Apr-92	28.49	28.43	28.48	28.39	28.43	28.49	28.51	28.44	28.32	28.44
May-92	27.77	27.76	27.75	27.79	27.56	27.75	27.79	27.70	27.67	27.68
Jun-92	26.91	26.92	26.87	26.88	26.81	26.87	26.92	26.81	26.64	26.76

TABLE 1a

GROUNDWATER ODOR AND SHEEN OBSERVATIONS
DURHAM TRANSPORTATION--MEEKLAND PROJECT

	MW1	MW3	MW4	MW5	MW6	MW7	MW8	MW9	MW10	MW11
Jan-91	O S	- -	- -	- -	o -	o -	. .	. .	. .	. .
Feb-91	O S	- -	- -	o -	o -	- -	- -	o -	. .	. .
Mar-91	X X	X X	X X	X X	X X	X X	X X	X X	. .	. .
Apr-91	O -	- -	- S	- -	- -	- -	- -	- -	. .	. .
May-91	- -	- -	- -	o -	- -	- -	- -	- -	. .	. .
Jun-91	o -	- -	- -	o -	- -	- -	- -	- -	. .	. .
Jul-91	O S	- -	- -	- -	o -	- -	- -	- -	. .	. .
Aug-91	O S	- -	o -	o -	o -	o -	- -	- -	. .	. .
Sep-91	O S	- -	- -	o -	o -	- -	- -	- -	. .	. .
Oct-91	O S	- -	- -	- -	- -	- -	- -	- -	. .	. .
Nov-91	O S	- -	- -	o -	o -	- -	- -	- -	. .	. .
Dec-91	O S	o -	- -	o -	o -	- -	- -	- -	. .	. .
Jan-92	O S	o -	- -	o -	o -	- -	- -	o -	o -	o -
Feb-92	O -	- -	- -	o -	- -	- -	- -	- -	O -	- -
Mar-92	O -	- -	- -	o S	- -	- -	- -	o -	o -	- -
Apr-92	o -	o -	- -	o -	o -	- -	- -	- -	o -	- -
May-92	O S	o -	- -	o -	- -	o -	- -	- -	o -	o -
Jun-92	O -	- -	- -	- -	- -	- -	- -	- -	O -	- -

O=Strong Odor **o**=Slight Odor **S**=Sheen -=None Present **X**= No Observation Made

FIGURE 1
GROUNDWATER ELEVATIONS, feet above MSL
DURHAM TRANSPORTATION -- MEEKLAND SITE

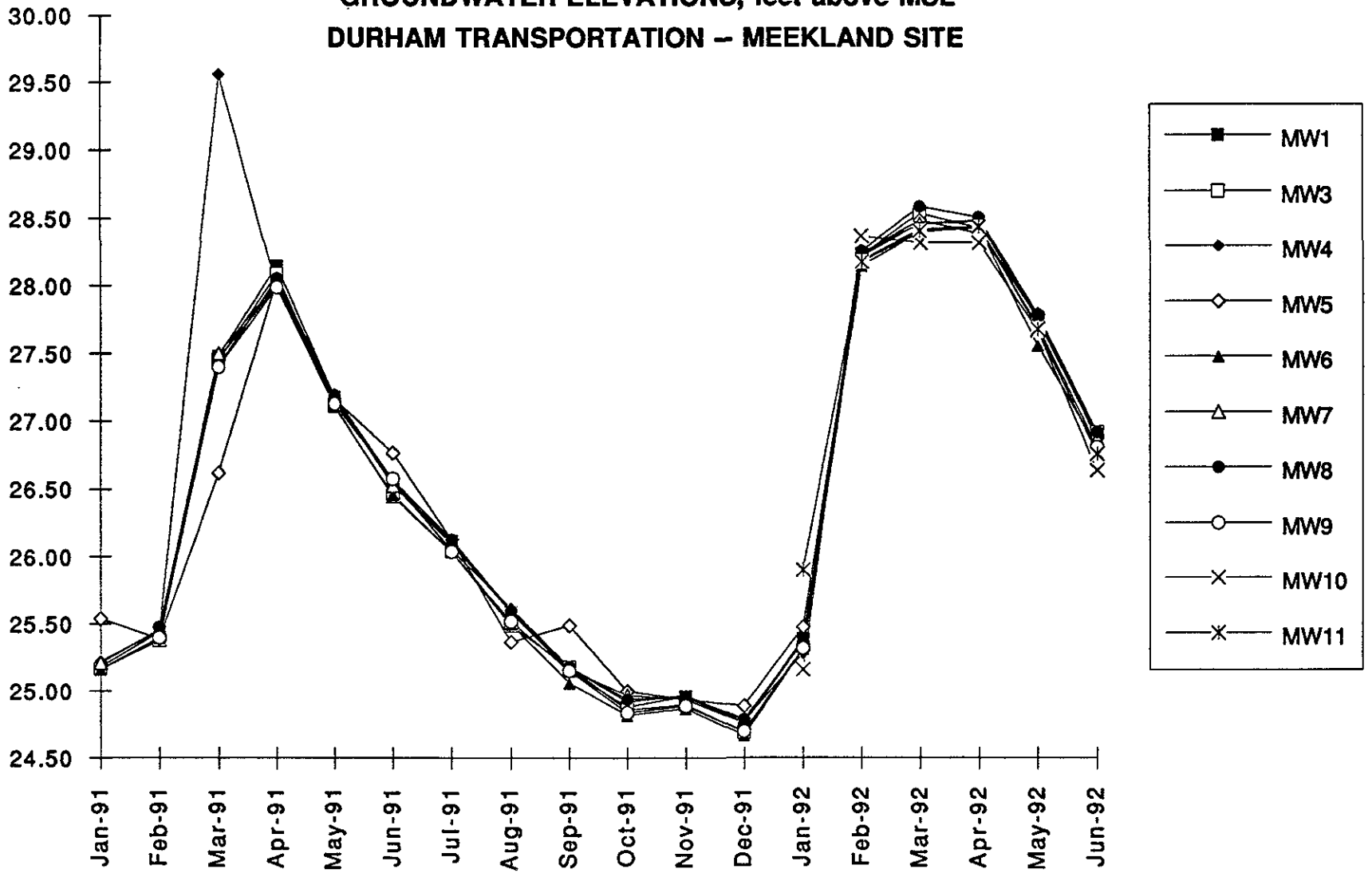

TABLE 2

GROUNDWATER CHEMICAL DATA--APRIL 1992
DURHAM TRANSPORTATION--MEEKLAND PROJECT

PARAMETER	UNITS	MW-1	MW-3	MW-4	MW-5	MW-6	MW-7
Gasoline	mg/L	33	7.4	0.78	23	7.2	1.7
Diesel	mg/L	11*	1.8*	0.13*	6.4*	1.8*	0.52*
Benzene	ug/L	8900	730	ND	8600	340	310
Ethylbenzene	ug/L	1200	370	51	ND	350	78
Toluene	ug/L	3500	180	ND	2600	460	28
Xylenes	ug/L	3700	640	4.8	1900	920	170
1,2-Dichloroethane	ug/L	120	19	1.6	130	30	3.2
Tetrachloroethene	ug/L	ND	ND	ND	ND	ND	0.5

		MW-8	MW-9	MW-10	MW-10 DUP	MW-11
Gasoline	mg/L	ND	2.9	13	15	0.16
Diesel	mg/L	ND	0.7*	7.5*	5.0*	1.2*
Benzene	ug/L	ND	510	240	180	ND
Ethylbenzene	ug/L	ND	80	490	ND	ND
Toluene	ug/L	ND	260	65	18	ND
Xylenes	ug/L	ND	260	2500	2700	ND
1,2-Dichloroethane	ug/L	ND	11	22	20	ND
Tetrachloroethene	ug/L	0.8	ND	ND	ND	ND

* The positive result for the Petroleum Hydrocarbon as Diesel analysis on this sample appears to be a lighter hydrocarbon than Diesel.

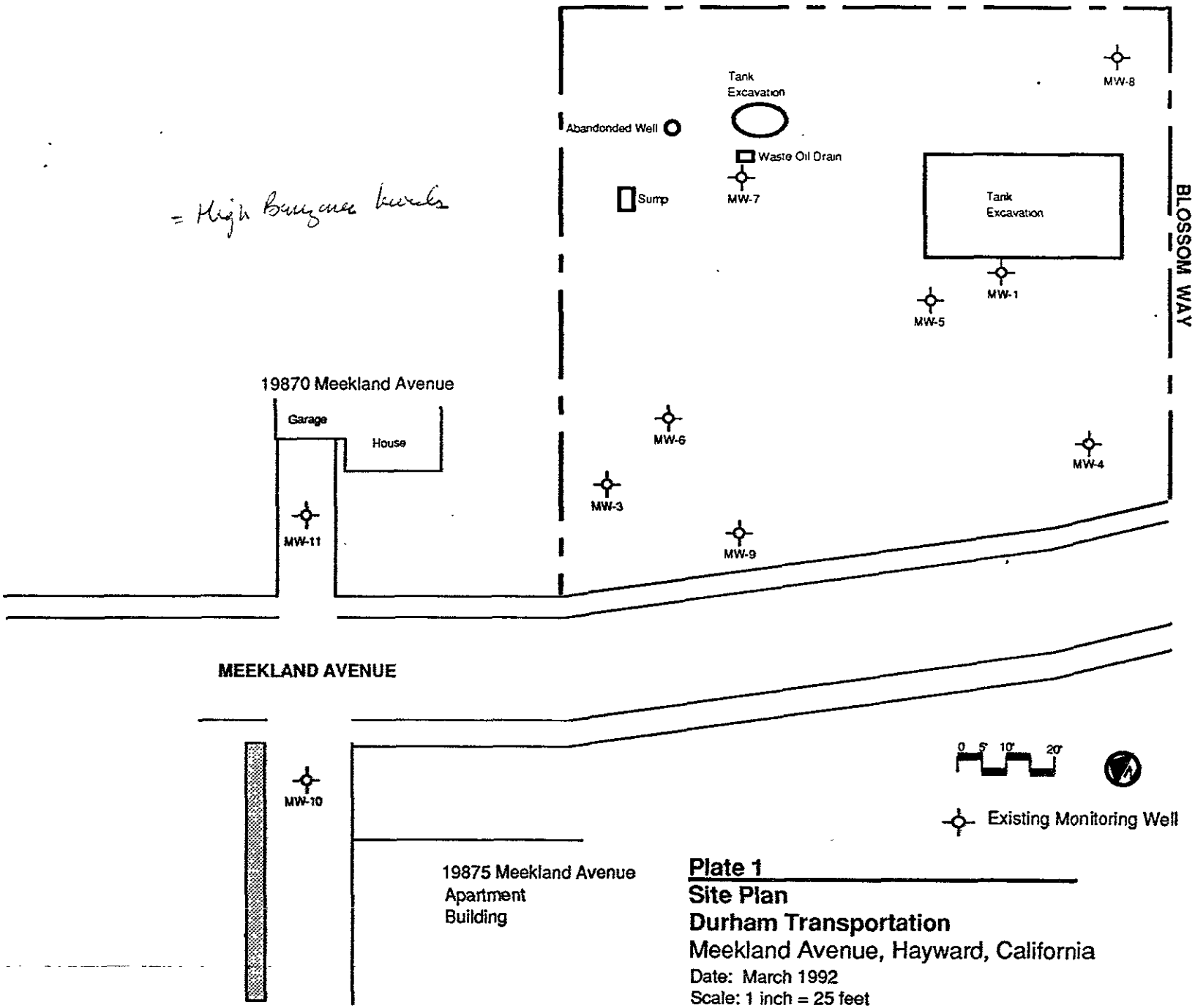

Plate 1

Site Plan

Durham Transportation

Meekland Avenue, Hayward, California

Date: March 1992

Scale: 1 inch = 25 feet

CTTS, Inc. - Toxic Technology Services

APPENDIX A

NATIONAL
ENVIRONMENTAL
TESTING, INC.

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

Lisa A. Polos
Toxic Technology Services
PO Box 515
Rodeo, CA 94572

Date: 05/07/1992
NET Client Acct No: 70700
NET Pacific Job No: 92.2140
Received: 04/17/1992

Client Reference Information

Durham - 2nd Quarterly Monitoring, Proj. No. 92-2

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

JS:rct
Enclosure(s)

NET Pacific, Inc

Client No: 70700 Date: 05/07/1992
Client Name: Toxic Technology Services
NET Job No: 92.2140 Page: 2

Ref: Durham - 2nd Quarterly Monitoring, Proj. No. 92-2

			Descriptor, Lab No. and Results		
			MW-8	MW-9	
			04/16/1992	04/16/1992	
Parameter	Method	Reporting Limit	120195	120196**	Units
TPH (Gas/BTXE,Liquid)					
METHOD 5030 (GC,FID)			--	--	
DATE ANALYZED			04-30-92	04-30-92	
DILUTION FACTOR*			1	10	
as Gasoline	5030	0.05	ND	2.9	mg/L
METHOD 8020 (GC,Liquid)			--	--	
DATE ANALYZED			04-30-92	04-30-92	
DILUTION FACTOR*			1	10	
Benzene	8020	0.5	ND	510	ug/L
Ethylbenzene	8020	0.5	ND	80	ug/L
Toluene	8020	0.5	ND	260	ug/L
Xylenes (Total)	8020	0.5	ND	260	ug/L
SURROGATE RESULTS			--	--	
Bromofluorobenzene	5030		92	101	% Rec.
METHOD 3510 (GC,FID)					
DILUTION FACTOR*			1	1	
DATE EXTRACTED			04-23-92	04-23-92	
DATE ANALYZED			04-29-92	04-29-92	
as Diesel	3510	0.05	ND	0.70	mg/L
as Motor Oil	3510	0.5	ND	ND	mg/L

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

NET Pacific, Inc

Client No: 70700 Date: 05/07/1992
Client Name: Toxic Technology Services
NET Job No: 92.2140 Page: 3

Ref: Durham - 2nd Quarterly Monitoring, Proj. No. 92-2

			Descriptor, Lab No. and Results		
			MW-8	MW-9	
			04/16/1992	04/16/1992	
Parameter	Method	Reporting Limit	120195	120196	Units
METHOD 601 (GC,Liquid)					
DATE ANALYZED			04-30-92	04-30-92	
DILUTION FACTOR*			1	1	
Bromodichloromethane	601	0.4	ND	ND	ug/L
Bromoform	601	0.4	ND	ND	ug/L
Bromomethane	601	0.4	ND	ND	ug/L
Carbon tetrachloride	601	0.4	ND	ND	ug/L
Chlorobenzene	601	0.4	ND	ND	ug/L
Chloroethane	601	0.4	ND	ND	ug/L
2-Chloroethylvinyl ether	601	1.0	ND	ND	ug/L
Chloroform	601	0.4	ND	ND	ug/L
Chloromethane	601	0.4	ND	ND	ug/L
Dibromochloromethane	601	0.4	ND	ND	ug/L
1,2-Dichlorobenzene	601	0.4	ND	ND	ug/L
1,3-Dichlorobenzene	601	0.4	ND	ND	ug/L
1,4-Dichlorobenzene	601	0.4	ND	ND	ug/L
Dichlorodifluoromethane	601	0.4	ND	ND	ug/L
1,1-Dichloroethane	601	0.4	ND	ND	ug/L
1,2-Dichloroethane	601	0.4	ND	11	ug/L
1,1-Dichloroethene	601	0.4	ND	ND	ug/L
trans-1,2-Dichloroethene	601	0.4	ND	ND	ug/L
1,2-Dichloropropane	601	0.4	ND	ND	ug/L
cis-1,3-Dichloropropene	601	0.4	ND	ND	ug/L
trans-1,3-Dichloropropene	601	0.4	ND	ND	ug/L
Methylene chloride	601	10	ND	ND	ug/L
1,1,2,2-Tetrachloroethane	601	0.4	ND	ND	ug/L
Tetrachloroethene	601	0.4	0.8	ND	ug/L
1,1,1-Trichloroethane	601	0.4	ND	ND	ug/L
1,1,2-Trichloroethane	601	0.4	ND	ND	ug/L
Trichloroethene	601	0.4	ND	ND	ug/L
Trichlorofluoromethane	601	0.4	ND	ND	ug/L
Vinyl chloride	601	0.4	ND	ND	ug/L
SURROGATE RESULTS			--	--	
1,4-Difluorobenzene	601		119	123	% Rec.
1,4-Dichlorobutane	601		101	90	% Rec.

NET Pacific, Inc

Client No: 70700 Date: 05/07/1992
Client Name: Toxic Technology Services
NET Job No: 92.2140 Page: 4

Ref: Durham - 2nd Quarterly Monitoring, Proj. No. 92-2

			Descriptor, Lab No. and Results		
			MW-10	MW-11	
			04/16/1992	04/16/1992	
Parameter	Method	Reporting Limit	120197**	120198**	Units
TPH (Gas/BTXE,Liquid)					
METHOD 5030 (GC,FID)			--	--	
DATE ANALYZED			05-01-92	05-03-92***	
DILUTION FACTOR*			50	1	
as Gasoline	5030	0.05	13	0.16	mg/L
METHOD 8020 (GC,Liquid)			--	--	
DATE ANALYZED			05-01-92	05-03-92***	
DILUTION FACTOR*			50	1	
Benzene	8020	0.5	240	ND	ug/L
Ethylbenzene	8020	0.5	490	ND	ug/L
Toluene	8020	0.5	65	ND	ug/L
Xylenes (Total)	8020	0.5	2,500	ND	ug/L
SURROGATE RESULTS			--	--	
Bromofluorobenzene	5030		98	109	% Rec.
METHOD 3510 (GC,FID)					
DILUTION FACTOR*			5	1	
DATE EXTRACTED			04-23-92	04-23-92	
DATE ANALYZED			04-29-92	04-29-92	
as Diesel	3510	0.05	7.5	1.2	mg/L
as Motor Oil	3510	0.5	ND	ND	mg/L

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

*** Note: This sample was originally analyzed for PETROLEUM HYDROCARBONS as gasoline/btxe on 04-30-92 at a 1:1 dilution and reanalyzed at other dilutions to achieve a result within linear range of the instrument. The result from both dates are comparable.

NET Pacific, Inc

Client No: 70700 Date: 05/07/1992
Client Name: Toxic Technology Services
NET Job No: 92.2140 Page: 5

Ref: Durham - 2nd Quarterly Monitoring, Proj. No. 92-2

Descriptor, Lab No. and Results

Parameter	Method	Reporting Limit	MW-10 04/16/1992 120197	MW-11 04/16/1992 120198	Units
METHOD 601 (GC,Liquid)					
DATE ANALYZED			04-30-92	04-30-92	
DILUTION FACTOR*			1	1	
Bromodichloromethane	601	0.4	ND	ND	ug/L
Bromoform	601	0.4	ND	ND	ug/L
Bromomethane	601	0.4	ND	ND	ug/L
Carbon tetrachloride	601	0.4	ND	ND	ug/L
Chlorobenzene	601	0.4	ND	ND	ug/L
Chloroethane	601	0.4	ND	ND	ug/L
2-Chloroethylvinyl ether	601	1.0	ND	ND	ug/L
Chloroform	601	0.4	ND	ND	ug/L
Chloromethane	601	0.4	ND	ND	ug/L
Dibromochloromethane	601	0.4	ND	ND	ug/L
1,2-Dichlorobenzene	601	0.4	ND	ND	ug/L
1,3-Dichlorobenzene	601	0.4	ND	ND	ug/L
1,4-Dichlorobenzene	601	0.4	ND	ND	ug/L
Dichlorodifluoromethane	601	0.4	ND	ND	ug/L
1,1-Dichloroethane	601	0.4	ND	ND	ug/L
1,2-Dichloroethane	601	0.4	22	ND	ug/L
1,1-Dichloroethene	601	0.4	ND	ND	ug/L
trans-1,2-Dichloroethene	601	0.4	ND	ND	ug/L
1,2-Dichloropropane	601	0.4	ND	ND	ug/L
cis-1,3-Dichloropropene	601	0.4	ND	ND	ug/L
trans-1,3-Dichloropropene	601	0.4	ND	ND	ug/L
Methylene chloride	601	10	ND	ND	ug/L
1,1,2,2-Tetrachloroethane	601	0.4	ND	ND	ug/L
Tetrachloroethene	601	0.4	ND	ND	ug/L
1,1,1-Trichloroethane	601	0.4	ND	ND	ug/L
1,1,2-Trichloroethane	601	0.4	ND	ND	ug/L
Trichloroethene	601	0.4	ND	ND	ug/L
Trichlorofluoromethane	601	0.4	ND	ND	ug/L
Vinyl chloride	601	0.4	ND	ND	ug/L
SURROGATE RESULTS			--	--	
1,4-Difluorobenzene	601		121	114	% Rec.
1,4-Dichlorobutane	601		106	101	% Rec.

NET Pacific, Inc

Client No: 70700 Date: 05/07/1992
Client Name: Toxic Technology Services
NET Job No: 92.2140 Page: 6

Ref: Durham - 2nd Quarterly Monitoring, Proj. No. 92-2

Descriptor, Lab No. and Results

Parameter	Method	Reporting Limit	MW-3 04/16/1992 120199**	MW-4 04/16/1992 120200**	Units
TPH (Gas/BTXE,Liquid)					
METHOD 5030 (GC,FID)			--	--	
DATE ANALYZED			04-30-92	04-30-92	
DILUTION FACTOR*			10	1	
as Gasoline	5030	0.05	7.4	0.78	mg/L
METHOD 8020 (GC,Liquid)			--	--	
DATE ANALYZED			04-30-92	04-30-92	
DILUTION FACTOR*			10	1	
Benzene	8020	0.5	730	ND	ug/L
Ethylbenzene	8020	0.5	370	51	ug/L
Toluene	8020	0.5	180	ND	ug/L
Xylenes (Total)	8020	0.5	640	4.8	ug/L
SURROGATE RESULTS			--	--	
Bromofluorobenzene	5030		90	84	% Rec.
METHOD 3510 (GC,FID)					
DILUTION FACTOR*			1	1	
DATE EXTRACTED			04-23-92	04-23-92	
DATE ANALYZED			04-29-92	04-29-92	
as Diesel	3510	0.05	1.8	0.13	mg/L
as Motor Oil	3510	0.5	ND	ND	mg/L

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

NET Pacific, Inc

Client No: 70700 Date: 05/07/1992
Client Name: Toxic Technology Services
NET Job No: 92.2140 Page: 7

Ref: Durham - 2nd Quarterly Monitoring, Proj. No. 92-2

Descriptor, Lab No. and Results

Parameter	Method	Reporting Limit	MW-3 04/16/1992 120199	MW-4 04/16/1992 120200	Units
METHOD 601 (GC,Liquid)					
DATE ANALYZED			04-30-92	04-30-92	
DILUTION FACTOR*			1	1	
Bromodichloromethane	601	0.4	ND	ND	ug/L
Bromoform	601	0.4	ND	ND	ug/L
Bromomethane	601	0.4	ND	ND	ug/L
Carbon tetrachloride	601	0.4	ND	ND	ug/L
Chlorobenzene	601	0.4	ND	ND	ug/L
Chloroethane	601	0.4	ND	ND	ug/L
2-Chloroethylvinyl ether	601	1.0	ND	ND	ug/L
Chloroform	601	0.4	ND	ND	ug/L
Chloromethane	601	0.4	ND	ND	ug/L
Dibromochloromethane	601	0.4	ND	ND	ug/L
1,2-Dichlorobenzene	601	0.4	ND	ND	ug/L
1,3-Dichlorobenzene	601	0.4	ND	ND	ug/L
1,4-Dichlorobenzene	601	0.4	ND	ND	ug/L
Dichlorodifluoromethane	601	0.4	ND	ND	ug/L
1,1-Dichloroethane	601	0.4	ND	ND	ug/L
1,2-Dichloroethane	601	0.4	19	1.6	ug/L
1,1-Dichloroethene	601	0.4	ND	ND	ug/L
trans-1,2-Dichloroethene	601	0.4	ND	ND	ug/L
1,2-Dichloropropane	601	0.4	ND	ND	ug/L
cis-1,3-Dichloropropene	601	0.4	ND	ND	ug/L
trans-1,3-Dichloropropene	601	0.4	ND	ND	ug/L
Methylene chloride	601	10	ND	ND	ug/L
1,1,2,2-Tetrachloroethane	601	0.4	ND	ND	ug/L
Tetrachloroethene	601	0.4	ND	ND	ug/L
1,1,1-Trichloroethane	601	0.4	ND	ND	ug/L
1,1,2-Trichloroethane	601	0.4	ND	ND	ug/L
Trichloroethene	601	0.4	ND	ND	ug/L
Trichlorofluoromethane	601	0.4	ND	ND	ug/L
Vinyl chloride	601	0.4	ND	ND	ug/L
SURROGATE RESULTS			--	--	
1,4-Difluorobenzene	601		160	119	% Rec.
1,4-Dichlorobutane	601		88	91	% Rec.

NET Pacific, Inc

Client No: 70700 Date: 05/07/1992
Client Name: Toxic Technology Services
NET Job No: 92.2140 Page: 8

Ref: Durham - 2nd Quarterly Monitoring, Proj. No. 92-2

Descriptor, Lab No. and Results

Parameter	Method	Reporting Limit	MW-7 04/16/1992 120201**	MW-10 Dup 04/16/1992 120202**	Units
TPH (Gas/BTXE,Liquid)					
METHOD 5030 (GC,FID)			--	--	
DATE ANALYZED			04-30-92	05-01-92***	
DILUTION FACTOR*			1	10	
as Gasoline	5030	0.05	1.7	15	mg/L
METHOD 8020 (GC,Liquid)			--	--	
DATE ANALYZED			04-30-92	05-01-92***	
DILUTION FACTOR*			1	1	
Benzene	8020	0.5	310	180	ug/L
Ethylbenzene	8020	0.5	78	ND	ug/L
Toluene	8020	0.5	28	18	ug/L
Xylenes (Total)	8020	0.5	170	2,700	ug/L
SURROGATE RESULTS			--	--	
Bromofluorobenzene	5030		98	109	% Rec.
METHOD 3510 (GC,FID)					
DILUTION FACTOR*			1	5	
DATE EXTRACTED			04-23-92	04-23-92	
DATE ANALYZED			04-29-92	05-01-92	
as Diesel	3510	0.05	0.52	5.0	mg/L
as Motor Oil	3510	0.5	ND	ND	mg/L

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

*** Note: This sample was originally analyzed for PETROLEUM HYDROCARBONS as gasoline/btxe on 04-30-92 at a 1:1 dilution and reanalyzed at other dilutions to achieve a result within linear range of the instrument. The result from both dates are comparable.

Ref: Durham - 2nd Quarterly Monitoring, Proj. No. 92-2

Parameter	Method	Reporting Limit	MW-7 04/16/1992 120201	MW-10 Dup 04/16/1992 120202	Units
METHOD 601 (GC,Liquid)					
DATE ANALYZED			04-30-92	04-30-92	
DILUTION FACTOR*			1	1	
Bromodichloromethane	601	0.4	ND	ND	ug/L
Bromoform	601	0.4	ND	ND	ug/L
Bromomethane	601	0.4	ND	ND	ug/L
Carbon tetrachloride	601	0.4	ND	ND	ug/L
Chlorobenzene	601	0.4	ND	ND	ug/L
Chloroethane	601	0.4	ND	ND	ug/L
2-Chloroethylvinyl ether	601	1.0	ND	ND	ug/L
Chloroform	601	0.4	ND	ND	ug/L
Chloromethane	601	0.4	ND	ND	ug/L
Dibromochloromethane	601	0.4	ND	ND	ug/L
1,2-Dichlorobenzene	601	0.4	ND	ND	ug/L
1,3-Dichlorobenzene	601	0.4	ND	ND	ug/L
1,4-Dichlorobenzene	601	0.4	ND	ND	ug/L
Dichlorodifluoromethane	601	0.4	ND	ND	ug/L
1,1-Dichloroethane	601	0.4	ND	ND	ug/L
1,2-Dichloroethane	601	0.4	3.2	20	ug/L
1,1-Dichloroethene	601	0.4	ND	ND	ug/L
trans-1,2-Dichloroethene	601	0.4	ND	ND	ug/L
1,2-Dichloropropane	601	0.4	ND	ND	ug/L
cis-1,3-Dichloropropene	601	0.4	ND	ND	ug/L
trans-1,3-Dichloropropene	601	0.4	ND	ND	ug/L
Methylene chloride	601	10	ND	ND	ug/L
1,1,2,2-Tetrachloroethane	601	0.4	ND	ND	ug/L
Tetrachloroethene	601	0.4	0.5	ND	ug/L
1,1,1-Trichloroethane	601	0.4	ND	ND	ug/L
1,1,2-Trichloroethane	601	0.4	ND	ND	ug/L
Trichloroethene	601	0.4	ND	ND	ug/L
Trichlorofluoromethane	601	0.4	ND	ND	ug/L
Vinyl chloride	601	0.4	ND	ND	ug/L
SURROGATE RESULTS			--	--	
1,4-Difluorobenzene	601		99	185	% Rec.
1,4-Dichlorobutane	601		78	95	% Rec.

Ref: Durham - 2nd Quarterly Monitoring, Proj. No. 92-2

QUALITY CONTROL DATA

Parameter	Reporting Limits	Units	Cal Verf Stand % Recovery	Blank Data	Spike % Recovery	Duplicate Spike % Recovery	RPD
Diesel	0.05	mg/L	106	ND	64	72	12
Motor Oil	0.5	mg/L	105	ND	N/A	N/A	N/A
Gasoline	0.05	mg/L	114	ND	103	92	11
Benzene	0.5	ug/L	90	ND	95	95	< 1
Toluene	0.5	ug/L	91	ND	96	96	< 1
COMMENT: Blank Results were ND on other analytes tested.							
Gasoline	0.05	mg/L	106	ND	104	101	3.5
Benzene	0.5	ug/L	90	ND	99	98	< 1
Toluene	0.5	ug/L	91	ND	97	96	1.6
COMMENT: Blank Results were ND on other analytes tested.							
Gasoline	0.05	mg/L	96	ND	95	97	2.1
Benzene	0.5	ug/L	88	ND	92	93	< 1
Toluene	0.5	ug/L	89	ND	95	95	< 1
COMMENT: Blank Results were ND on other analytes tested.							

QUALITY CONTROL DATA

Parameter	Reporting Limits	Units	Cal Verf Stand % Recovery	Blank Data	Spike % Recovery	Duplicate Spike % Recovery	RPD
Chlorobenzene	0.4	ug/L	100	ND	92	91	1.1
1,1-Dichloroethene	0.4	ug/L	100	ND	128	123	4.0
Trichloroethene	0.4	ug/L	100	ND	89	87	2.3
COMMENT: Blank Results were ND on other analytes tested.							

NET Pacific, Inc

KEY TO ABBREVIATIONS and METHOD REFERENCES

<	:	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 [Value 1 - Value 2]/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, 17th Edition, APHA, 1989.

NET Pacific, Inc

KEY TO ABBREVIATIONS and METHOD REFERENCES

<	:	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 [Value 1 - Value 2]/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

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ENVIRONMENTAL ESTIN[redacted]C. [redacted] Group

3S Tesconi Circle, Santa Rosa, CA 95401

CHAIN OF CUSTODY RECORD

5777

PROJ. NO. 92-2

PROJECT NAME: Durham - 2nd Q Monitoring

SAMPLERS: (Signature) Lisa A. Bloss

STA. NO	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	TPH-G	TPH-D MOTOR OIL	BTEX	GOL		
MW-8	4/16/92			X		5	X	X	X	X		
MW-9				X		5	X	X	X	X		
MW-10				X		5	X	X	X	X		
MW-11				X		5	X	X	X	X		
MW-3				X		5	X	X	X	X		
MW-4				X		5	X	X	X	X		
MW-7				X		5	X	X	X	X		
MW-10 Dup	4/16/92			X		5	X	X	X	X		

P.O. Box 575
Rodeo, CA 94572

PO# 92-22Q

REMARKS

Invoice & Report To
Lisa Bloss

Run Dup as additional sample
Please

Seals intact A.L.
0081
CUSTODY SEALED 4/16/92

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Lisa Bloss	4/16/92 500pm	Mike Tavasci	Mike Tavasci	4/16/92 1900	
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature) A. Lopez	Date / Time 4/17/92 11:00	Remarks	

NATIONAL
ENVIRONMENTAL
TESTING, INC.

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

Lisa A. Polos
Toxic Technology Services
PO Box 515
Rodeo, CA 94572

Date: 05/07/1992
NET Client Acct. No: 70700
NET Pacific Job No: 92.2162
Received: 04/20/1992

Client Reference Information

Durham, 2nd Quarterly, Project No. 92-1

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 Shamarack
Laboratory Manager

Enclosure(s)

Ref: Durham, 2nd Quarterly, Project No. 92-1

SAMPLE DESCRIPTION: MW-1
Date Taken: 04/17/1992
Time Taken:
LAB Job No: (-120304**)

Parameter	Method	Reporting Limit	Results	Units
TPH (Gas/BTXE,Liquid)				
METHOD 5030 (GC,FID)			--	
DATE ANALYZED			05-01-92	
DILUTION FACTOR*			100	
as Gasoline	5030	0.05	33	mg/L
METHOD 8020 (GC,Liquid)			--	
DATE ANALYZED			05-01-92	
DILUTION FACTOR*			100	
Benzene	8020	0.5	8,900	ug/L
Ethylbenzene	8020	0.5	1,200	ug/L
Toluene	8020	0.5	3,500	ug/L
Xylenes (Total)	8020	0.5	3,700	ug/L
SURROGATE RESULTS			--	
Bromofluorobenzene	5030		112	% Rec.
METHOD 3510 (GC,FID)				
DILUTION FACTOR*			10	
DATE EXTRACTED			04-24-92	
DATE ANALYZED			05-01-92	
as Diesel	3510	0.05	11	mg/L
as Motor Oil	3510	0.5	ND	mg/L

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

Ref: Durham, 2nd Quarterly, Project No. 92-1

SAMPLE DESCRIPTION: MW-1
Date Taken: 04/17/1992
Time Taken:
LAB Job No: (-120304)

Parameter	Method	Reporting Limit	Results	Units
METHOD 601 (GC,Liquid)				
DATE ANALYZED			05-01-92	
DILUTION FACTOR*			5	
Bromodichloromethane	601	0.4	ND	ug/L
Bromoform	601	0.4	ND	ug/L
Bromomethane	601	0.4	ND	ug/L
Carbon tetrachloride	601	0.4	ND	ug/L
Chlorobenzene	601	0.4	ND	ug/L
Chloroethane	601	0.4	ND	ug/L
2-Chloroethylvinyl ether	601	1.0	ND	ug/L
Chloroform	601	0.4	ND	ug/L
Chloromethane	601	0.4	ND	ug/L
Dibromochloromethane	601	0.4	ND	ug/L
1,2-Dichlorobenzene	601	0.4	ND	ug/L
1,3-Dichlorobenzene	601	0.4	ND	ug/L
1,4-Dichlorobenzene	601	0.4	ND	ug/L
Dichlorodifluoromethane	601	0.4	ND	ug/L
1,1-Dichloroethane	601	0.4	ND	ug/L
1,2-Dichloroethane	601	0.4	118	ug/L
1,1-Dichloroethene	601	0.4	ND	ug/L
trans-1,2-Dichloroethene	601	0.4	ND	ug/L
1,2-Dichloropropane	601	0.4	ND	ug/L
cis-1,3-Dichloropropene	601	0.4	ND	ug/L
trans-1,3-Dichloropropene	601	0.4	ND	ug/L
Methylene chloride	601	10	ND	ug/L
1,1,2,2-Tetrachloroethane	601	0.4	ND	ug/L
Tetrachloroethene	601	0.4	ND	ug/L
1,1,1-Trichloroethane	601	0.4	ND	ug/L
1,1,2-Trichloroethane	601	0.4	ND	ug/L
Trichloroethene	601	0.4	ND	ug/L
Trichlorofluoromethane	601	0.4	ND	ug/L
Vinyl chloride	601	0.4	ND	ug/L
SURROGATE RESULTS			--	
2-Chlorotoluene	601		71	% Rec.

NET Pacific, Inc

Client Acct: 70700
Client Name: Toxic Technology Services
NET Job No: 92.2162

Date: 05/07/1992

Ref: Durham, 2nd Quarterly, Project No. 92-1

SAMPLE DESCRIPTION: MW-5
Date Taken: 04/17/1992
Time Taken:
LAB Job No: (-120305**)

Parameter	Method	Reporting Limit	Results	Units
TPH (Gas/BTXE,Liquid)				
METHOD 5030 (GC,FID)			--	
DATE ANALYZED			05-01-92	
DILUTION FACTOR*			200	
as Gasoline	5030	0.05	23	mg/L
METHOD 8020 (GC,Liquid)			--	
DATE ANALYZED			05-01-92	
DILUTION FACTOR*			200	
Benzene	8020	0.5	8,600	ug/L
Ethylbenzene	8020	0.5	ND	ug/L
Toluene	8020	0.5	2,600	ug/L
Xylenes (Total)	8020	0.5	1,900	ug/L
SURROGATE RESULTS			--	
Bromofluorobenzene	5030		110	% Rec.
METHOD 3510 (GC,FID)				
DILUTION FACTOR*			10	
DATE EXTRACTED			04-24-92	
DATE ANALYZED			05-01-92	
as Diesel	3510	0.05	6.4	mg/L
as Motor Oil	3510	0.5	ND	mg/L

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

Ref: Durham, 2nd Quarterly, Project No. 92-1

SAMPLE DESCRIPTION: MW-5
Date Taken: 04/17/1992
Time Taken:
LAB Job No: (-120305)

Parameter	Method	Reporting Limit	Results	Units
METHOD 601 (GC,Liquid)				
DATE ANALYZED			05-01-92	
DILUTION FACTOR*			10	
Bromodichloromethane	601	0.4	ND	ug/L
Bromoform	601	0.4	ND	ug/L
Bromomethane	601	0.4	ND	ug/L
Carbon tetrachloride	601	0.4	ND	ug/L
Chlorobenzene	601	0.4	ND	ug/L
Chloroethane	601	0.4	ND	ug/L
2-Chloroethylvinyl ether	601	1.0	ND	ug/L
Chloroform	601	0.4	ND	ug/L
Chloromethane	601	0.4	ND	ug/L
Dibromochloromethane	601	0.4	ND	ug/L
1,2-Dichlorobenzene	601	0.4	ND	ug/L
1,3-Dichlorobenzene	601	0.4	ND	ug/L
1,4-Dichlorobenzene	601	0.4	ND	ug/L
Dichlorodifluoromethane	601	0.4	ND	ug/L
1,1-Dichloroethane	601	0.4	ND	ug/L
1,2-Dichloroethane	601	0.4	125	ug/L
1,1-Dichloroethene	601	0.4	ND	ug/L
trans-1,2-Dichloroethene	601	0.4	ND	ug/L
1,2-Dichloropropane	601	0.4	ND	ug/L
cis-1,3-Dichloropropene	601	0.4	ND	ug/L
trans-1,3-Dichloropropene	601	0.4	ND	ug/L
Methylene chloride	601	10	ND	ug/L
1,1,2,2-Tetrachloroethane	601	0.4	ND	ug/L
Tetrachloroethene	601	0.4	ND	ug/L
1,1,1-Trichloroethane	601	0.4	ND	ug/L
1,1,2-Trichloroethane	601	0.4	ND	ug/L
Trichloroethene	601	0.4	ND	ug/L
Trichlorofluoromethane	601	0.4	ND	ug/L
Vinyl chloride	601	0.4	ND	ug/L
SURROGATE RESULTS			--	
2-Chlorotoluene	601		82	% Rec.

Ref: Durham, 2nd Quarterly, Project No. 92-1

SAMPLE DESCRIPTION: MW-6
Date Taken: 04/17/1992
Time Taken:
LAB Job No: (-120306**)

Parameter	Method	Reporting Limit	Results	Units
TPH (Gas/BTXE,Liquid)				
METHOD 5030 (GC,FID)			--	
DATE ANALYZED			05-01-92	
DILUTION FACTOR*			10	
as Gasoline	5030	0.05	7.2	mg/L
METHOD 8020 (GC,Liquid)			--	
DATE ANALYZED			05-01-92	
DILUTION FACTOR*			10	
Benzene	8020	0.5	340	ug/L
Ethylbenzene	8020	0.5	350	ug/L
Toluene	8020	0.5	460	ug/L
Xylenes (Total)	8020	0.5	920	ug/L
SURROGATE RESULTS			--	
Bromofluorobenzene	5030		131	% Rec.
METHOD 3510 (GC,FID)				
DILUTION FACTOR*			1	
DATE EXTRACTED			04-24-92	
DATE ANALYZED			05-01-92	
as Diesel	3510	0.05	1.8	mg/L
as Motor Oil	3510	0.5	ND	mg/L

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

Ref: Durham, 2nd Quarterly, Project No. 92-1

SAMPLE DESCRIPTION: MW-6
Date Taken: 04/17/1992
Time Taken:
LAB Job No: (-120306)

Parameter	Method	Reporting Limit	Results	Units
METHOD 601 (GC,Liquid)				
DATE ANALYZED			05-01-92	
DILUTION FACTOR*			1	
Bromodichloromethane	601	0.4	ND	ug/L
Bromoform	601	0.4	ND	ug/L
Bromomethane	601	0.4	ND	ug/L
Carbon tetrachloride	601	0.4	ND	ug/L
Chlorobenzene	601	0.4	ND	ug/L
Chloroethane	601	0.4	ND	ug/L
2-Chloroethylvinyl ether	601	1.0	ND	ug/L
Chloroform	601	0.4	ND	ug/L
Chloromethane	601	0.4	ND	ug/L
Dibromochloromethane	601	0.4	ND	ug/L
1,2-Dichlorobenzene	601	0.4	ND	ug/L
1,3-Dichlorobenzene	601	0.4	ND	ug/L
1,4-Dichlorobenzene	601	0.4	ND	ug/L
Dichlorodifluoromethane	601	0.4	ND	ug/L
1,1-Dichloroethane	601	0.4	ND	ug/L
1,2-Dichloroethane	601	0.4	30	ug/L
1,1-Dichloroethene	601	0.4	ND	ug/L
trans-1,2-Dichloroethene	601	0.4	ND	ug/L
1,2-Dichloropropane	601	0.4	ND	ug/L
cis-1,3-Dichloropropene	601	0.4	ND	ug/L
trans-1,3-Dichloropropene	601	0.4	ND	ug/L
Methylene chloride	601	10	ND	ug/L
1,1,2,2-Tetrachloroethane	601	0.4	ND	ug/L
Tetrachloroethene	601	0.4	ND	ug/L
1,1,1-Trichloroethane	601	0.4	ND	ug/L
1,1,2-Trichloroethane	601	0.4	ND	ug/L
Trichloroethene	601	0.4	ND	ug/L
Trichlorofluoromethane	601	0.4	ND	ug/L
Vinyl chloride	601	0.4	ND	ug/L
SURROGATE RESULTS			--	
2-Chlorotoluene	601		30	% Rec.

Ref: Durham, 2nd Quarterly, Project No. 92-1

SAMPLE DESCRIPTION: B-1
Date Taken: 04/17/1992
Time Taken:
LAB Job No: (-120307)

Parameter	Method	Reporting Limit	Results	Units
TPH (Gas/BTXE,Liquid)				
METHOD 5030 (GC,FID)			--	
DATE ANALYZED			05-01-92	
DILUTION FACTOR*			1	
as Gasoline	5030	0.05	ND	mg/L
METHOD 8020 (GC,Liquid)			--	
DATE ANALYZED			05-01-92	
DILUTION FACTOR*			1	
Benzene	8020	0.5	ND	ug/L
Ethylbenzene	8020	0.5	ND	ug/L
Toluene	8020	0.5	ND	ug/L
Xylenes (Total)	8020	0.5	ND	ug/L
SURROGATE RESULTS			--	
Bromofluorobenzene	5030		110	% Rec.
METHOD 3510 (GC,FID)				
DILUTION FACTOR*			1	
DATE EXTRACTED			04-24-92	
DATE ANALYZED			05-01-92	
as Diesel	3510	0.05	ND	mg/L
as Motor Oil	3510	0.5	ND	mg/L

Ref: Durham, 2nd Quarterly, Project No. 92-1

SAMPLE DESCRIPTION: B-1
Date Taken: 04/17/1992
Time Taken:
LAB Job No: (-120307)

Parameter	Method	Reporting Limit	Results	Units
METHOD 601 (GC,Liquid)				
DATE ANALYZED			05-01-92	
DILUTION FACTOR*			1	
Bromodichloromethane	601	0.4	1.2	ug/L
Bromoform	601	0.4	ND	ug/L
Bromomethane	601	0.4	ND	ug/L
Carbon tetrachloride	601	0.4	ND	ug/L
Chlorobenzene	601	0.4	ND	ug/L
Chloroethane	601	0.4	ND	ug/L
2-Chloroethylvinyl ether	601	1.0	ND	ug/L
Chloroform	601	0.4	14	ug/L
Chloromethane	601	0.4	ND	ug/L
Dibromochloromethane	601	0.4	ND	ug/L
1,2-Dichlorobenzene	601	0.4	ND	ug/L
1,3-Dichlorobenzene	601	0.4	ND	ug/L
1,4-Dichlorobenzene	601	0.4	ND	ug/L
Dichlorodifluoromethane	601	0.4	ND	ug/L
1,1-Dichloroethane	601	0.4	ND	ug/L
1,2-Dichloroethane	601	0.4	ND	ug/L
1,1-Dichloroethene	601	0.4	ND	ug/L
trans-1,2-Dichloroethene	601	0.4	ND	ug/L
1,2-Dichloropropane	601	0.4	ND	ug/L
cis-1,3-Dichloropropene	601	0.4	ND	ug/L
trans-1,3-Dichloropropene	601	0.4	ND	ug/L
Methylene chloride	601	10	ND	ug/L
1,1,2,2-Tetrachloroethane	601	0.4	ND	ug/L
Tetrachloroethene	601	0.4	ND	ug/L
1,1,1-Trichloroethane	601	0.4	ND	ug/L
1,1,2-Trichloroethane	601	0.4	ND	ug/L
Trichloroethene	601	0.4	ND	ug/L
Trichlorofluoromethane	601	0.4	ND	ug/L
Vinyl chloride	601	0.4	ND	ug/L
SURROGATE RESULTS			--	
2-Chlorotoluene	601		85	% Rec.

Ref: Durham, 2nd Quarterly, Project No. 92-1

QUALITY CONTROL DATA

Parameter	Reporting Limits	Units	Cal Verf Stand % Recovery	Blank Data	Spike % Recovery	Duplicate Spike % Recovery	RPD
Diesel	0.05	mg/L	116	ND	91	83	10
Motor Oil	0.5	mg/L	100	ND	N/A	N/A	N/A
Gasoline	0.05	mg/L	86	ND	102	86	17
Benzene	0.5	ug/L	94	ND	126	106	17
Toluene	0.5	ug/L	94	ND	117	105	11

COMMENT: Blank Results were ND on other analytes tested.

Gasoline	0.05	mg/L	105	ND	105	97	7.9
Benzene	0.5	ug/L	95	ND	100	91	9.1
Toluene	0.5	ug/L	100	ND	100	95	5.5

COMMENT: Blank Results were ND on other analytes tested.

QUALITY CONTROL DATA

Parameter	Reporting Limits	Units	Cal Verf Stand % Recovery	Blank Data	Spike % Recovery	Duplicate Spike % Recovery	RPD
Chlorobenzene	0.4	ug/L	N/A	ND	88	81	9.0
1,1-Dichloroethene	0.4	ug/L	N/A	ND	99	98	4.1
Trichloroethene	0.4	ug/L	N/A	ND	100	101	< 1

COMMENT: Blank Results were ND on other analytes tested.

NET Pacific, Inc

KEY TO ABBREVIATIONS and METHOD REFERENCES

<	:	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 [Value 1 - Value 2]/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, 17th Edition, APHA, 1989.

NATIONAL ENVIRONMENTAL TESTING, INC. NET [redacted]rato Group

435 Tesconi Circle, Santa Rosa, CA 95401

Toxic Tech

5795

CHAIN OF CUSTODY RECORD

PROJ NO.	PROJECT NAME
92-1	Durham 2Q sampling

SAMPLERS (Signature) Lisa Flat

PO # 92-12Q

Report & invoice TO Toxic Technology Services

STA. NO	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	601	TPH-G	BTEX	TPH-D with extraction	REMARKS
MW-1	4/17			X		5	X	X	X	X	Normal TA
MW-5	↓			↓		5	X	X	X	X	Be careful of sampling date & holding times
MW-6						5	X	X	X	X	
B-1	↓			↓		5	X	X	X	X	

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Lisa Flat	4/20/92 10:00	R. Hall			
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature) R. Hall	Date / Time 4/20/92 12:10	Received for Laboratory by: (Signature) A. Lopez	Date / Time 4-20-92 12:10	Remarks	