WORKPLAN FOR SUBSURFACE INVESTIGATION AND REMEDIATION OF CONTAMINATED SOIL

FOR:

Dynagroup Development, Inc. 100 First Plaza, Suite 2040 San Francisco, CA 94105

SITE LOCATION:

800 Franklin Street Oakland, CA

8/24/89

PREPARED BY:

MILLER ENVIRONMENTAL COMPANY 631 Marina Way South Richmond, CA 94804 Tel: (415) 233-9000 Fax: (415) 233-9000

INTRODUCTION

The site is located at the eastern corner of Franklin Street and Eighth Street in Oakland, CA. It is a rectangularly shaped lot of approximately Ø.1 acre, bound by commercial properties to the northeast and southeast. It is located in a highly congested area of downtown Oakland with emphasis on commercial use.

This workplan addresses the steps necessary for bringing the site into compliance with local and regional environmental laws and regulations. Miller Environmental Company (MEC) has been retained by the property owner to investigate the subsurface contamination and the possible impact to the groundwater at the site. In addition, MEC shall excavate additional highly contaminated soil from the pits and properly handle and dispose of all excavated soil.

The property has been owned by Alex Shaw and Associates since March, 1989. The mailing address for this site is: Dynagroup Development, Inc., 100 First Plaza, Suite 2040, San Francisco, CA, 94105. Correspondence can be addressed to Mr. Tai-Ling Tsou.

BACKGROUND

Prior to 1989 the site was operated as a service station. Five underground tanks are known to have existed at the site. At some time prior to August, 1988, one of the underground storage tanks was removed.

In June, 1989, the Robert J. Miller Co. removed and disposed of two (2) 6000 gallon tanks formerly used for gasoline, one (1) 550 gallon waste oil tank, and one (1) 1000 gallon solvent tank. These tanks had been installed in approximately 1970.

On site to observe the tank removal operations and collect samples was a representative of the Traverse Group, Inc. (TGI), an environmental consulting firm. TGI collected soil samples from beneath each tank following removal. Sample locations are indicated on the attached site plan.

Each tank was inspected by TGI upon removal. No holes or pitting was reported for any of the tanks.

As soil was excavated qualitative observations were made by TGI as to the contamination status of the soil. Soil which appeared clean or slightly contaminated was stockpiled separately from soil appearing discolored or having strong fuel hydrocarbon odors. Approximately ten (10) cubic yards of soil removed from the east end of the gasoline tank pit and from the south end of the waste oil tank pit was

stockpiled separately as "contaminated" soil.

Composite samples were collected by TGI from the two spoils piles. The locations of the spoils piles are indicated on the attached site plan. Sample SP1 is representative of the "contaminated" soil (approx. 10 cubic yards) while samples SP2 and SP3 are representative on the "clean" soil (approx. 100 cubic yards).

All samples were delivered to a state certified laboratory, where they were analyzed for Total Petroleum Hydrocarbons (TPH) as Gasoline, TPH Diesel, and TPH Waste Oil. At the request of the Alameda County Health Services representative assigned to this site the samples were also analyzed for purgeable and semi-volatile organics (EPA methods 8240 and 8270). This organic chemical scan was requested due to the unknown nature of products and waste products which may have been stored over the years in the solvent and waste oil tanks.

A preliminary review of subsurface investigations on record at the San Francisco Bay Area office of the Regional Water Quality Control Board has revealed that a major soil and groundwater contamination problem (fuel hydrocarbons) exists approximately one city block from this site in the presumed upgradient direction. The extent of contamination and groundwater flow direction have been well documented through installation of monitoring wells and collection of soil samples. A large scale bioremediation effort to treat this contamination is currently in operation at the corner of 9th and Webster Streets.

Another soil and groundwater contamination site exists in the near vicinity at 7th Street and Broadway. This is the site of a service station having a record of subsurface contamination dating back to 1979. A groundwater monitoring and recovery system was installed in 1982. Groundwater was measured at approximately 18 feet below grade. Floating product has been reported at various times since well installation. The latest sampling results reported in January, 1989, indicate concentrations of TPH Gasoline ranging from Ø.0038 to 29.0 parts per million (ppm) in the groundwater.

LABORATORY ANALYSIS RESULTS

The analysis results for petroleum hydrocarbons plus Benzene, Toluene, Ethylbenzene, and Xylene are summarized in the attached Table 1. These results verify petroleum hydrocarbon contamination in the northwest corner of the gasoline tank pit (sample T4) and in the waste oil tank pit (samples W1 and W2A). It was from these locations that soil was stockpiled separately as "contaminated". The analysis results from this

soil (sample SP1) verify it as contaminated.

At other sampling locations the contamination was slight or not detected. As can be seen from the complete laboratory results (attached to this workplan) napthalene and a form of phthalate were detected at low concentration in several samples. These results have been discussed by MEC with the Alameda County Health Services Agency. The agency has indicated that these concentrations are not a matter of concern at this site.

SCOPE OF FUNCTIONS - MILLER ENVIRONMENTAL COMPANY

In accordance with guidelines set by the RWQCB for investigation of subsurface contamination related to underground storage tank releases, MEC shall provide geologic and engineering services for subsurface investigation of this site. In addition MEC shall further excavate the contaminated soil in the gasoline tank and the waste oil tank pits, and dispose of all excavated soil, contaminated and non-contaminated, following proper hauling and manifesting procedures.

MEC shall prepare closure plans, plans of correction or abatement, permit applications, necessary reports and certifications, site condition reports, and recommendations for any remedial action required. TGI shall maintain communication with all government agencies having jurisdiction.

SUBSURFACE INVESTIGATION

Three monitoring wells shall be installed at the site under the direction of a California Registered Geologist. Proposed well locations are indicated on he attached site plan. These wells shall be located so as to establish background contamination levels and the possible impact of on-site product release to the groundwater. Because of our client's plans for construction at the site we shall locate two wells in the sidewalk to ensure possibilities for future monitoring, if required. These two wells shall be located in close proximity to the tank pits, in the presumed downgradient direction.

In order to establish groundwater flow direction and background contamination levels, a third monitoring well will be installed in the presumed upgradient direction from the tank pits. Because our client wishes to construct a new building at this site this well will have to be abandoned and destroyed at a later date. However, MEC believes that the data collected from this well is essential in assessing the

environmental impact of contamination at this site. In particular, this well is necessary in calculating groundwater flow direction and will indicate whether contamination is migrating to this property from off site.

According to an earlier investigation at the site, the depth to groundwater is approximately 28 feet below grade. MEC shall install monitoring wells to an approximate depth of 40 feet below grade, with a screened section of approximately 15 feet.

During installation of the wells soil samples shall be collected using a split spoon sampler at five (5) foot intervals until groundwater is encountered. Standard penetration test results and geologic observations shall be recorded in well logs.

The monitoring wells will be constructed using four-inch diameter, threaded PVC casing. The well will be screened with .02 inch slotted casing from ten feet below the water table to approximately five feet above the water table. The appropriate filter pack will be placed to approximately two feet above the water table and a minimum three foot bentonite seal will be used above the filter pack. The well annulus will then be filled to the surface with cement grout. The casing will be capped at both ends and a Christy Box installed. The well head will be provided with a locking cap and seal.

Spoils from drilling shall be drummed or stockpiled on site until a determination is made as to whether they are hazardous material. If hazardous, the material will be properly manifested and disposed of by a licensed waste hauler.

The wells will be properly developed and sampled with the purged water being collected and properly disposed of. The monitoring wells shall be surveyed based on mean sea level datum so that groundwater gradient and flow direction can be established.

Soil and groundwater samples shall be handled in accordance with the Standard Sampling Method as described in the LUFT manual. All samples will be delivered to certified laboratory and analyzed for Total Petroleum Hydrocarbons as Gasoline (TPH/Gas), Total Petroleum Hydrocarbons as Diesel (TPH/Diesel), Waste Oil and Grease (EPA Method 5Ø3D&E) and Benzene, Toluene, Ethylbenzene and Xylene (BTEX).

HANDLING AND DISPOSAL OF EXCAVATED SOIL

Prior to additional excavation of contaminated soil, MEC shall haul and dispose of the existing stockpiled soil at the

site which has been shown to contain low-level contamination. It is estimated that approximately 100 cubic yards will be disposed of at a CLASS III landfill. This soil has been aerating per Bay Area Air Quality Management District quidelines since tank removal. MEC collected an additional composite sample from the pile on 8/22/89. This sample is currently being analyzed for petroleum hydrocarbons to verify that the soil will be accepted by a Class III landfill.

MEC estimates that the additional excavation of approximately thirty (30) cubic yards of soil from the pits shall be sufficient to bring the site into compliance with requirements set forth by the Alameda County Health Services Agency. Additional excavation in the sidewalk area (waste oil tank pit) shall require shoring along 8th street and possibly along the side of the adjacent building.

Following additional excavation soil samples shall be collected from the sidewalls and/or pit bottom, and analyzed for petroleum hydrocarbons to determine whether levels of contamination remain in the subsurface soil.

The excavated soil shall be stockpiled together with the approximately ten cubic yards of material already on site. This soil shall be properly manifested, hauled, and disposed of at a CLASS I landfill by a licensed hazardous waste hauler.

REPORTING

MEC shall submit a technical report following this work to include all results, interpretation of data, site plan, hazardous waste manifests, boring logs, chain-of-custody forms, groundwater flow data, and appropriate recommendations regarding site closure and/or additional investigation. report shall be submitted to all appropriate agencies, including Alameda County Health Services and the RWQCB.

TIMETABLE

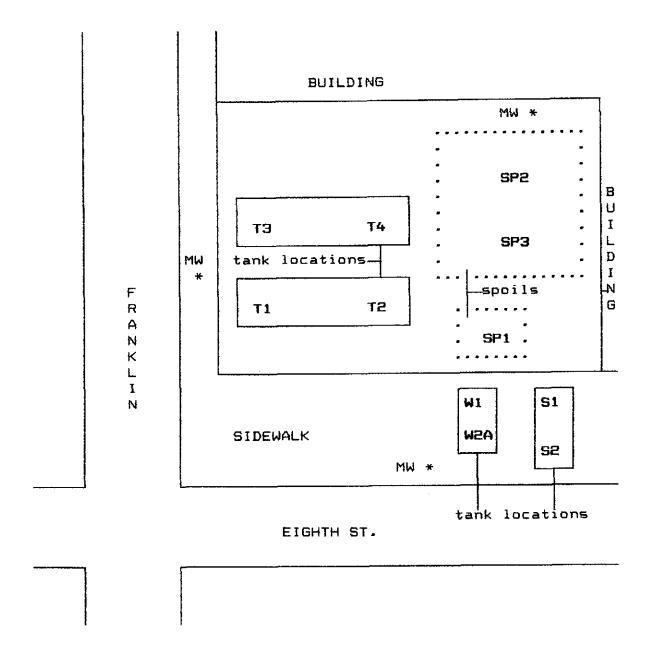
Barring unforeseen circumstances and/or unusual site conditions, MEC expects to complete the work described herein within two months of the date of this workplan.

Submitted by: MILLER ENVIRONMENTAL CO. Jeffy h later

Date: 8/25/89

The Market

SITE PLAN 800 FRANKLIN ST, DAKLAND, CA



MW * = proposed monitoring well location

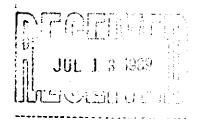
Sample Locations in **Boldface**not to scale

Table 1 - Summary of Laboratory Results

800 Franklin St, Sakland, CA

Sample 1.D.	Location	mg/kg mg/kg mg/kg ug/kg ug/kg ug/kg TPH TPH TPH Ethyl Gasoline Diesel Waste Dil Benzene Toluene Benzene Xylene	53 CE
T1	Gasoline Tank	ND ND 11.8 26 SET ND 6.1 X	
T2	Gaspline Tank	5.8 ND / 30.6 / 50.8 44.8 / 3.6 / 23.0 / *	
13	Gasoline Tank	ND / ND / 4.6 / ND / ND / YOU	
14	Gasoline Tank	3186.8 428.6 1359.6 7596.8 127998.9 57998.8 278998.6 *	
/ #1	Waste Oil Tank	275.8 435.5 4359.5 ND ND ND V 14666.6 V X	
/ W2A	Waste Oil Tank	2300.8 178.6 50.0 ND 2900.0 ND 12000.0 X	
Si	Solvent Tank	1.8 / ND / ND / ND / ND / ND / Y	
, s a	Solvent Tank	62.8 186.8 A ND/ ND/ ND/ ND/ ND/ **	
, SP1	Spoils Pile "contaminated"	184.8 248.8 986.8 ND / 17688.8 / 19868.8 / 118885.8 / *	
SP2	Spoils Pile	ND N	
/ SP3	"clean" Spoils Pile "clean"	128.8 NO 158.8 NO NO NO 2188.8 X	

* low hits 8270





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Reinhard Ruhmke Traverse Group West 1620 Grant Avenue, Suite 2 Novato, CA 94947

Client Code: TRAG6 Survey # 89-106

Mex SHAW

LABORATORY RESULTS Page 1

Date Extracted: 06/20/89

Date Analyzed: 06/30/89

Laboratory Job No.: 892729 Date Received: 06/19/89 Date Reported: 07/06/89

SEMIVOLATILES BY GC/MS(EPA 8270)

COMPOUNDS:	LAB# SMP# dil.	39305 S1 mg	DET. LIM. 1 /kg	39306 S2 mg	DET. LIM. 1 /kg	39307 Wl mg	DET. LIM. 1 /kg
4-CHLORO-3-METHYLE 2-CHLOROPHENOL 2,4-DICHLOROPHENOL 2,4-DIMETHYLPHENOL 2,4-DINITROPHENOL 2-METHYL-4,6-DINIT 2-MITROPHENOL 4-NITROPHENOL PENTACHLOROPHENOL PHENOL 2,4,6-TRICHLOROPHE ACENAPHTHENE ACENAPHTHENE ACENAPHTHENE ANTHRACENE BENZO(a)ANTHRACENE BENZO(b)FLUORANTHE BENZO(b)FLUORANTHE BENZO(a)PYRENE BENZO(g,h,i)PERYLE BENZIDINE BIS(2-CHLOROETHYL) BIS(2-CHLOROETHOXY)	ROPHENOL NOL NE NE NE	ND N	0.2 0.2 0.2 1.0 1.0 0.2 1.0 1.0 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0	ND N	0.2 0.2 0.2 0.2 1.0 1.0 0.2 1.0 0.2 0.2 0.2 0.2 0.2 0.2 0.2	ND N	0.2 0.2 0.2 0.2 1.0 1.0 0.2 1.0 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2

THIS REPORT HAS BEEN REVIEWED AND APPROVED FOR RELEASE.





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LABORATORY RESULTS

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Laboratory Job No.: 892729

COMPOUNDS:	LAB# SMP# dil.	39305 S1	LIM. 1	39306 S2		39307 W1	DET. LIM.
RIC/2 DEGREE		m	g/kg 	mo	g/kg	mç	j/kg
BIS(2-ETHYLHEXYL)PHTH BIS(2-CHLOROISOPROPYL 4-BROMOPHENYL PHENYL BUTYL BENZYL PHTHALAT 2-CHLORONAPHTHALENE 4-CHLOROPHENYL PHENYL CHRYSENE DIBENZO(a,h)ANTHRACENE DI-n-BUTYL PHTHALATE 1,2-DICHLOROBENZENE 1,3-DICHLOROBENZENE 1,4-DICHLOROBENZENE 3,3'-DICHLOROBENZENE DIMETHYL PHTHALATE DIMETHYL PHTHALATE DIMETHYL PHTHALATE 2,4-DINITROTOLUENE 2,6-DINITROTOLUENE DIOCTYL PHTHALATE FLUORANTHENE FLUORANTHENE FLUORENE HEXACHLOROBENZENE HEXACHLOROBUTADIENE HEXACHLOROCYCLOPENTADII INDENO(1,2,3-c,d)PYRENI ISOPHORONE NAPHTHALENE NITROSODIMETHYLAMINE N-NITROSODIMETHYLAMINE N-NITROSODIPHENYLAMINE N-NITROSODIPHENYLAMINE PHENANTHRENE PYRENE 1,2,4-TRICHLOROBENZENE ANILINE BENZOIC ACID BENZYL ALCOHOL) ETHER ETHER E ETHER E				9/kg 	ND N	0.22 0.22 0.22 0.22 0.22 0.22 0.22 0.22
4-CHLOROANALINE		ND ND	0.2	ND ND	0.2 0.2	ND ND	0.2



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LABORATORY RESULTS

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			Laborato	ory Job	No.: 8	92729
DIBENZOFURAN 2-METHYL-NAPHTHALENE 2-METHYL-PHENOL 4-METHYL-PHENOL 2-NITROANILINE 3-NITROANILINE 4-NITROANILINE 2,4,5-TRICHLOROPHENOL	ND ND ND ND ND ND ND	0.2 0.2 1.0 1.0 0.2 0.2 1.0	ND ND ND ND ND ND ND	0.2 0.2 1.0 1.0 0.2 0.2 1.0	ND 1.9 ND ND ND ND ND ND ND	0.2 0.2 1.0 1.0 0.2 0.2 1.0
SURROGATE RECOVERIES (PERCENT)						
PHENOL-D5 2-FLUOROPHENOL NITROBENZENE-D5 2-FLUOROBIPHENYL 2,4,6-TRIBROMOPHENOL TERPHENYL-D14	42 32 58 63 33 87	-	31 22 60 71 20 84		37 25 53 66 42 88	-



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LABORATORY RESULTS

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COMPOUNDS:	LAB# SMP# dil.	39308 W2A	DET. LIM. 1 J/kg	39309 SP1	LIM.	39310 SP2	DET. LIM.
4-CHLORO-3-METHYLPHENO: 2-CHLOROPHENOL 2,4-DICHLOROPHENOL 2,4-DINITROPHENOL 2,4-DINITROPHENOL 2-METHYL-4,6-DINITROPHE 2-NITROPHENOL 4-NITROPHENOL PENTACHLOROPHENOL PENTACHLOROPHENOL ACENAPHTHENE ACENAPHTHENE ACENAPHTHYLENE ANTHRACENE BENZO(a)ANTHRACENE BENZO(b)FLUORANTHENE BENZO(b)FLUORANTHENE BENZO(c)PYRENE BENZO(g,h,i)PERYLENE BENZIDINE BIS(2-CHLOROETHYL)ETHER BIS(2-CHLOROETHOXY)METHER BIS(2-CHLOROISOPROPYL)ETHER BIS(2-CHLOROISOPROPYL)ETHER BUTYL BENZYL PHTHALATE 4-CHLOROPHENYL PHENYL ETHER CHRYSENE DIBENZO(a,h)ANTHRACENE DI-n-BUTYL PHTHALATE 1,2-DICHLOROBENZENE 1,3-DICHLOROBENZENE	ENOL ANE ATE CHER IER		0.2 0.2 0.2 0.2 0.2 1.0 0.2 1.0 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0	ND N	0.8 8 0 0 8 8 0 0 8 8 8 8 8 8 8 8 8 8 8	ND N	0,2 0,2 0,2 0,2 0,2 0,2 0,2 0,2 0,2 0,2



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LABORATORY RESULTS

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COMPOUNDS:	LAB# SMP#	39308 W2A	LIM.	39309 SP1	DET. LIM.	39310 SP2	DET.
BNA	uii.	mo		***	4		1
BNA 1,4-DICHLOROBENZENE 3,3'-DICHLOROBENZIDINE DIETHYL PHTHALATE DIMETHYL PHTHALATE 2,4-DINITROTOLUENE 2,6-DINITROTOLUENE DIOCTYL PHTHALATE FLUORANTHENE FLUORANTHENE FLUORENE HEXACHLOROBENZENE HEXACHLOROBUTADIENE HEXACHLOROCYCLOPENTADIEN INDENO(1,2,3-c,d)PYRENE ISOPHORONE NAPHTHALENE NITROSODIMETHYLAMINE	SMP# dil.	W2A mo ND	LIM. 1 9/kg 0.2 0.5 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2	MD ND	LIM. 4 /kg 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8	SP2	LIM.
N-NITROSODI-n-PROPYLAMINE N-NITROSODIPHENYLAMINE PHENANTHRENE PYRENE 1,2,4-TRICHLOROBENZENE ANILINE BENZOIC ACID BENZYL ALCOHOL 4-CHLOROANALINE DIBENZOFURAN 2-METHYL-NAPHTHALENE 2-METHYL-PHENOL 4-METHYL-PHENOL 2-NITROANILINE 3-NITROANILINE 4-NITROANILINE 2,4,5-TRICHLOROPHENOL	E	ND N	0.2 0.2 0.2 0.2 0.2 0.2 1.0 0.2 0.2 0.2 1.0 0.2 0.2	ND N	0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8	ND ND ND ND ND ND ND ND	0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2



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LABORATORY

RESULTS

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SURROGATE RECOVERIES (PERCENT)			
PHENOL-D5 2-FLUOROPHENOL NITROBENZENE-D5 2-FLUOROBIPHENYL 2,4,6-TRIBROMOPHENOL TERPHENYL-D14	56 36 65 77 47 95	 49 40 67 79 30 89	35 25 72 75 19	



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LABORATORY RESULTS

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							•
COMPOUNDS:	LAB# SMP# dil.	39311 Tl	DET. LIM.	39312 T2	DET. LIM.	39313 T3	DET.
		mç	J/kg	mg	j/kg	mic	l g/kg
4-CHLORO-3-METHYLPHENOL 2-CHLOROPHENOL 2,4-DICHLOROPHENOL 2,4-DIMETHYLPHENOL 2,4-DINITROPHENOL 2-METHYL-4,6-DINITROPHEN 2-MITROPHENOL 4-NITROPHENOL PENTACHLOROPHENOL PENTACHLOROPHENOL PHENOL 2,4,6-TRICHLOROPHENOL ACENAPHTHENE ACENAPHTHENE ACENAPHTHYLENE ANTHRACENE BENZO(a)ANTHRACENE BENZO(b)FLUORANTHENE BENZO(b)FLUORANTHENE BENZO(g,h,i)PERYLENE BENZO(g,h,i)PERYLENE BENZIDINE BIS(2-CHLOROETHYL)ETHER BIS(2-CHLOROETHOXY)METHAN BIS(2-CHLOROISOPROPYL)ETH BUTYL BENZYL PHTHALATE 2-CHLORONAPHTHALENE 4-CHLOROPHENYL PHENYL ETH CHRYSENE DIBENZO(a,h)ANTHRACENE DI-n-BUTYL PHTHALATE 1,2-DICHLOROBENZENE 1,3-DICHLOROBENZENE	NOL NE TE HER ER	ND N	0.2 0.2 0.2 0.2 0.2 1.0 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0	ND N	0.2 0.2 0.2 0.2 0.2 1.0 0.2 1.0 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0	ND N	0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2



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LABORATORY RESULTS

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Laboratory Job No.: 892729

COMPOUNDS:	LAB# SMP# dil.	39311 T1	DET. LIM. 1 J/kg	39312 T2	LIM.	39313 T3	LIM.
1,4-DICHLOROBENZENE 3,3'-DICHLOROBENZIDINE DIETHYL PHTHALATE DIMETHYL PHTHALATE 2,4-DINITROTOLUENE 2,6-DINITROTOLUENE DIOCTYL PHTHALATE FLUORANTHENE FLUORANTHENE FLUORENE HEXACHLOROBENZENE HEXACHLOROBUTADIENE HEXACHLOROCYCLOPENTADII INDENO(1,2,3-c,d)PYRENI INDENO(1,2,3-c,d)PYRENI ISOPHORONE NAPHTHALENE NITROBENZENE N-NITROSODIMETHYLAMINE N-NITROSODIPHENYLAMINE PHENANTHRENE PYRENE 1,2,4-TRICHLOROBENZENE ANILINE BENZOIC ACID BENZYL ALCOHOL 4-CHLOROANALINE DIBENZOFURAN 2-METHYL-NAPHTHALENE 2-METHYL-PHENOL 4-METHYL-PHENOL	dil.	ND N	0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2		1 /kg 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2		
2-NITROANILINE 3-NITROANILINE 4-NITROANILINE 2,4,5-TRICHLOROPHENOL		ND ND ND ND ND	1.0 0.2 0.2 1.0 0.2	ND ND ND ND	1.0 0.2 0.2 1.0	ND ND ND ND ND	1.0 0.2 0.2 1.0 0.2



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LABORATORY RESULTS

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SURROGATE	RECOVERIES	(PERCENT)
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	_	-	_	_	
PHENOL-D5	47		47		44
2-FLUOROPHENOL	33		30		33
NITROBENZENE-D5	65		70		61
2-FLUOROBIPHENYL	70		70		62
2,4,6-TRIBROMOPHENOL TERPHENYL-D14	49		21		41
LEKEUTP-DI4	86		84		77



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LABORATORY RESULTS

COMPOUNDS:	LAB# SMP# dil.	39314 T4	DET. LIM. 4	39315 SP3	DET.
BNA	uii.	mg	/kg		1 /kg
4-CHLORO-3-METHYLPHENO).	ND	0.8	ND	0.2
2-CHLOROPHENOL	<i>3.</i> 2	ND	0.8	ND	0.2
2,4-DICHLOROPHENOL		ND	0.8	ND	0.2
2,4-DIMETHYLPHENOL		ND	0.8	ND	0.2
2,4-DINITROPHENOL		ND	4.0	ND	1.0
2-METHYL-4,6-DINITROP	HENOI.	ND	4.0	ND	1.0
2-NITROPHENOL		ND	0.8	ND	0.2
4-NITROPHENOL		ND	4.0	ND	1.0
PENTACHLOROPHENOL		ND	4.0	ND	1.0
PHENOL '		ND	0.8	ND	0.2
2,4,6-TRICHLOROPHENOL		ND	0.8	ND	0.2
ACENAPHTHENE		ND	0.8	ND	0.2
ACENAPHTHYLENE		ND	0.8	ND	0.2
ANTHRACENE		ND	0.8	ND	0.2
BENZO(a)ANTHRACENE		ND	0.8	ND	0.2
BENZO(b) FLUORANTHENE		ND	0.8	ND	0.2
BENZO(k) FLUORANTHENE		ND	0.8	ND	0.2
BENZO(a)PYRENE		ND	0.8	ND	0.2
BENZO(g,h,i)PERYLENE		ND	0.8	ND	0.2
BENZIDÎNE		ND	4.0	ND	1.0
BIS(2-CHLOROETHYL)ETHE		ND	0.8	ND	0.2
BIS(2-CHLOROETHOXY)MET		ND	0.8	ND	0.2
BIS(2-ETHYLHEXYL)PHTHA		ND	0.8	0.52	0.2
BIS(2-CHLOROISOPROPYL)		ND	0.8	ND	0.2
4-BROMOPHENYL PHENYL E		ND	8.0	ИD	0.2
BUTYL BENZYL PHTHALATI	E	ND	0.8	ND	0.2
2-CHLORONAPHTHALENE		ND	0.8	ND	0.2
4-CHLOROPHENYL PHENYL	ETHER	ND	0.8	ND	0.2
CHRYSENE		ND	0.8	ND	0.2
DIBENZO(a,h)ANTHRACENE	2	ND	0.8	ND	0.2
DI-n-BUTYL PHTHALATE		ND	0.8	ND	0.2
1,2-DICHLOROBENZENE		ND	0.8	ND	0.2
1,3-DICHLOROBENZENE		ND	0.8	ND	0.2



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LABORATORY RESULTS

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COMPOUNDS:	LAB# SMP#	39314 T4	DET. LIM.	39315 SP3	DET. LIM.
	dil.	1-3	4		1
BNA		mg	/kg		/kg
1,4-DICHLOROBENZENE		ND		ND	0.2
3,3'-DICHLOROBENZIDIN	E	ND	2.0	ND	0.5
DIETHYL PHTHALATE		ND	0.8	ND	0.2
DIMETHYL PHTHALATE		ND	0.8	ND	0.2
2,4-DINITROTOLUENE		ND	0.8	ND	0.2
2,6-DINITROTOLUENE		ND	-	ND	0.2
DIOCTYL PHTHALATE		ND	0.8	ND	0.2
FLUORANTHENE		ND	0.8	ND	0.2
FLUORENE		ND	0.8	ND	0.2
HEXACHLOROBENZENE		ND	0.8	ND	0.2
HEXACHLOROBUTADIENE		ND	0.8	ND	0.2
HEXACHLOROETHANE		ND	0.8	ND	0.2
HEXACHLOROCYCLOPENTAD		ND	4.0	ND	1.0
INDENO(1,2,3-c,d)PYREI	NE	ND	0.8	ND	0.2
ISOPHORONE		ND	0.8	ND	0.2
NAPHTHALENE		28	0.8	1.6	0.2
NITROBENZENE		ND	0.8	ND	0.2
N-NITROSODIMETHYLAMINI		ND	8.0	ND	0.2
N-NITROSODI-n-PROPYLAI		ND	0.8	ND	0.2
N-NITROSODIPHENYLAMINI	E	ND	0.8	ND	0.2
PHENANTHRENE		ND	0.8	ND	0.2
PYRENE		ND	0.8	ND	0.2
1,2,4-TRICHLOROBENZENI	Ē	ND	0.8	ND	0.2
ANILINE		ND	0.8	ND	0.2
BENZOIC ACID		ND	4.0	ND	1.0
BENZYL ALCOHOL		ND	0.8	ND	0.2
4-CHLOROANALINE		ND	0.8	ND	0.2
DIBENZOFURAN		ND	0.8	ND	0.2
2-METHYL-NAPHTHALENE		23	0.8	2.0	0.2
2-METHYL-PHENOL		ND	4.0	ND	1.0
4-METHYL-PHENOL		ND	4.0	ND	1.0
2-NITROANILINE		ND	0.8	ND	0.2
3-NITROANILINE		ND	0.8	ND	0.2
4-NITROANILINE		ND	4.0	ND	1.0
2,4,5-TRICHLOROPHENOL		ND	0.8	ND	0.2



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LABORATORY RESULTS

Laboratory Job No.: 892729

SURROGATE RECOVERIES (PERCENT)

	_	
PHENOL-D5	56	71
2-FLUOROPHENOL	45	58
NITROBENZENE-D5	55	67
2-FLUOROBIPHENYL	73	73
2,4,6-TRIBROMOPHENOL	34	97
TERPHENYL-D14	108	72

ND = NO PEAKS DETECTED

ANALYST: CAROLYN STUDENY



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LABORATORY RESULTS

Laboratory Job No.: 892729
Date Received: 06/19/89 Date Reported: 07/06/89

PURGEABLES BY GC/MS(EPA8240)

Date Extracted: 06/26/89 Date Analyzed: 06/26/89

COMPOUNDS:	LAB# SMP# dil.	39305 S1 UG/		39306 S2 400 UG/		39307 W1 2000 UG/	
BENZENE BROMODICHLOROMETHANE BROMOFORM BROMOMETHANE CARBON TETRACHLORIDE CHLOROBENZENE CHLOROETHANE 2-CHLOROETHYLVINYL ET CHLOROFORM CHLOROMETHANE DIBROMOCHLOROMETHANE 1,2-DICHLOROBENZENE 1,3-DICHLOROBENZENE 1,4-DICHLOROBENZENE 1,1-DICHLOROETHANE 1,2-DICHLOROETHANE 1,2-DICHLOROETHANE 1,1-DICHLOROETHENE TRANS-1,2-DICHLOROETH 1,2-DICHLOROPROPANE CIS-1,3-DICHLOROPROPE TRANS-1,3-DICHLOROPRO ETHYL BENZENE METHYLENE CHLORIDE 1,1,2,2-TETRACHLOROET TETRACHLOROETHENE TOLUENE	ENE NE PENE HANE	ND ND ND ND ND ND ND ND ND ND ND ND ND N	2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	ND N	1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0	ND N	5000.0 5000.0 5000.0 5000.0 5000.0 5000.0 5000.0 5000.0 5000.0 5000.0 5000.0 5000.0 5000.0 5000.0 5000.0 5000.0 5000.0 5000.0
1,1,1-TRICHLOROETHANE 1,1,2-TRICHLOROETHANE		ND ND	2.5 2.5	ND ND	1000.0	ND ND	5000.0 5000.0



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LABORATORY RESULTS Page 14

102%

90%

Laboratory Job No.: 892729

•						
TRICHLOROETHENE	ND	2.5	ND	1000.0	ND	5000.0
TRICHLOROFLUOROMETHANE	ND	2.5	ND	1000.0	ND	5000.0
VINYL CHLORIDE	ND	5.0	ND	2000.0	ND	10000.0
XYLENES	ИD	2.5	ND	1000.0	14000	5000.0
ACETONE	ND	50.0	ND	20000.0	ND	100000.0
2-BUTANONE	ND	5.0	ND	2000.0	ND	10000.0
CARBON DISULFIDE	ND	5.0	ND	2000.0	ND	10000.0
2-HEXANONE	ND	5.0	ND	2000.0	ND	10000.0
4-METHYL-2-PENTANONE	ND	5.0	ND	2000.0	ND	10000.0
STYRENE	ND	5.0	ND	2000.0	ND	10000.0
VINYL ACETATE	ND	5.0	ND	2000.0	ND	10000.0
*						
SURROGATE RECOVERIES-QC						
1 0 27 27 22 22 22 2						
1,2-DICHLOROETHANE-D4	116%		88%		63%	
TOLUENE-D8	104%		110%		102%	

110%

86%

94%

4-BROMOFLUOROBENZENE



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LABORATORY RESULTS

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COMPOUNDS: PURGEABLES	LAB# SMP# dil.	39308 W2A 1000 UG/	DET. LIM.	39309 SP1 200	DET. LIM. 0 KG		DET. LIM.
					/ NG	ŬG/	/KG
BENZENE		ND	2500.0	ND	5000.0	, ND	2.5
BROMODICHLOROMETHANE		ND	2500.0	ND	5000.0	ND	2.5
BROMOFORM		ND	2500.0	ND	5000.0	ND	2.5
BROMOMETHANE		ND	2500.0	ND	5000.0	ND	2.5
CARBON TETRACHLORIDE		ND	2500.0	ND	5000.0	ND	2.5
CHLOROBENZENE		ND	2500.0	ND	5000.0	ND	2.5
CHLOROETHANE		ND	2500.0	ND	5000.0	ND	2.5
2-CHLOROETHYLVINYL ET	HER	ND	5000.0	ND	10000.0	ND	5.0
CHLOROFORM		ND	2500.0	ND	5000.0	ND	2.5
CHLOROMETHANE		ND	2500.0	ND	5000.0	ND	2.5
DIBROMOCHLOROMETHANE		ND	2500.0	ND	5000.0	ND	2.5
1,2-DICHLOROBENZENE		ND	2500.0	ND	5000.0	ND	2.5
1,3-DICHLOROBENZENE		ND	2500.0	ND	5000.0	ND	2.5
1,4-DICHLOROBENZENE		ND	2500.0	ND	5000.0	ND	2.5
1,1-DICHLOROETHANE		ND	2500.0	ND	5000.0	ND	2.5
1,2-DICHLOROETHANE		ИD	2500.0	ND	5000.0	ND	2.5
1,1-DICHLOROETHENE		ND	2500.0	ND	5000.0	ND	2.5
TRANS-1,2-DICHLOROETH	ENE	ND	2500.0	ND	5000.0	ND	2.5
1,2-DICHLOROPROPANE		ND	2500.0	ND	5000.0	ND	2.5
CIS-1,3-DICHLOROPROPE		ND	2500.0	ND	5000.0	ND	2.5
TRANS-1,3-DICHLOROPRO	PENE	ND	2500.0	ND	5000.0	ND	2.5
ETHYL BENZENE		ND	2500.0	19000	5000.0	ND	2.5
METHYLENE CHLORIDE		ND	2500.0	ND	5000.0	ND	2.5
1,1,2,2-TETRACHLOROET	HANE	ND	2500.0	ND	5000.0	ND	2.5
TETRACHLOROETHENE		ND	2500.0	ИD	5000.0	ND	2.5
TOLUENE		2900	2500.0	17000	5000.0	ND	2.5
1,1,1-TRICHLOROETHANE		ND	2500.0	ND	5000.0	ND	2.5
1,1,2-TRICHLOROETHANE		ND	2500.0	ND	5000.0	ND	2.5
TRICHLOROETHENE		ND	2500.0	ND	5000.0	ND	2.5
TRICHLOROFLUOROMETHAN	Ε	ND	2500.0	ND	5000.0	ND	2.5
VINYL CHLORIDE		ND	5000.0	ND	10000.0	ND	5.0
XYLENES		12000	2500.0	110000	5000.0	ND	2.5
ACETONE		ND	50000.0	ND	100000.0	ND	50.0



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LABORATORY RESULTS

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Laboratory	Job	No.:	892729

2-BUTANONE CARBON DISULFIDE 2-HEXANONE 4-METHYL-2-PENTANONE STYRENE VINYL ACETATE	ND ND ND ND ND	5000.0 5000.0 5000.0 5000.0 5000.0	ND ND ND ND ND	10000.0 10000.0 10000.0 10000.0 10000.0	ND ND ND ND ND	5.0 5.0 5.0 5.0 5.0
SURROGATE RECOVERIES-QC					·	
1,2-DICHLOROETHANE-D4 TOLUENE-D8 4-BROMOFLUOROBENZENE	63% 109% 87%		63% 105% 72%		90% 103% 120%	



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LABORATORY RESULTS

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COMPOUNDS:	LAB# SMP# dil.	39311 T1	DET. LIM.	39312 T2	DET. LIM.	39313 T3	DET. LIM.
PURGEABLES			/KG		/KG		/KG
BENZENE		11	2.5	50	2.5	4.6	, 2.5
BROMODICHLOROMETHANE		ND	2.5	ND	2.5	ND	2.5
BROMOFORM		ND	2.5	ND	2.5	ND	2.5
BROMOMETHANE		ND	2.5	ND	2.5	ND	2.5
CARBON TETRACHLORIDE		ND	2.5	ND	2.5	ND	2.5
CHLOROBENZENE		ND	2.5	ND	2.5	ND	2.5
CHLOROETHANE		ND	2.5	ND	2.5	ND	2.5
2-CHLOROETHYLVINYL ET	HER	ND	5.0	ND	5.0	ND	5.0
CHLOROFORM		ND	2.5	ND	2.5	ND	2.5
CHLOROMETHANE		ND	2.5	ממ	2.5	ND	2.5
DIBROMOCHLOROMETHANE		ND	2.5	ND	2.5	ND	2.5
1,2-DICHLOROBENZENE		ND	2.5	ND	2.5	ND	2.5
1,3-DICHLOROBENZENE		ND	2.5	ND	2.5	ND	2.5
1,4-DICHLOROBENZENE		ND	2.5	ND	2.5	ND	2.5
1,1-DICHLOROETHANE		ND	2.5	ND	2.5	ND	2.5
1,2-DICHLOROETHANE		ND	2.5	41	2.5	ND	2.5
1,1-DICHLOROETHENE		ND	2.5	ND	2.5	ND	2.5
TRANS-1,2-DICHLOROETH	ENÉ	ИD	2.5	ND	2.5	ND	2.5
1,2-DICHLOROPROPANE		ND	2.5	ND	2.5	ND	2.5
CIS-1,3-DICHLOROPROPE	NE	ND	2.5	ND	2.5	ND	2.5
TRANS-1,3-DICHLOROPRO	PENE	ND	2.5	ND	2.5	ND	2.5
ETHYL BENZENE		ND	2.5	3.6	2.5	ND	2.5
METHYLENE CHLORIDE		ND	2.5	ND	2.5	ND	2.5
1,1,2,2-TETRACHLOROETI	HANE	ND	2.5	ND	2.5	ND	2.5
TETRACHLOROETHENE		ND	2.5	ND	2.5	ND	2.5
TOLUENE		3.6	2.5	44	2.5	ND	2.5
1,1,1-TRICHLOROETHANE		ND	2.5	ND	2.5	MD	2 5
1,1,2-TRICHLOROETHANE		ND	2.5	ND	2.5	ND '	2.5
TRICHLOROETHENE		ND	2.5	ND	2.5	ND	2.5
TRICHLOROFLUOROMETHAN	3	ND	2.5	ND	2.5	ND	2.5
VINYL CHLORIDE		ND	5.0	ND	5.0	ND	5.0
XYLENES		6.1	2.5	23	2.5	ND	2.5
ACETONE		ND	50.0	ND	50.0	ND	50.0



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LABORATORY RESULTS

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•						
2-BUTANONE	ND	5.0	ND	5.0	ND	5.0
CARBON DISULFIDE	ND	5.0	ND	5.0	ND	5.0
2-HEXANONE	ND	5.0	ND	5.0	ND	5.0
4-METHYL-2-PENTANONE	ND	5.0	ND	5.0	ND	5.0
STYRENE	ND	5.0	ND	5.0	ND	5.0
VINYL ACETATE	ND	5.0	ND	5.0	ND	5.0
						•
SURROGATE RECOVERIES-QC						
1,2-DICHLOROETHANE-D4	120%		97%		92%	
TOLUENE-D8	108%		107%		119%	
4-BROMOFLUOROBENZENE	102%		99%		116%	



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LABORATORY RESULTS

COMPOUNDS:	LAB#	39314	DET.	39315	DET.		
	SMP#	T4	LIM.	SP3	LIM.		
	dil.	200	-	40	•		
PURGEABLES		UG	/KG	UG	UG/KG		
BENZENE		7500	5000.0	ND	1000.0		
BROMODICHLOROMETHAN	E	ND	5000.0	ND	1000.0		
BROMOFORM		ND	5000.0	ND	1000.0		
BROMOMETHANE		ND	5000.0	ND	1000.0		
CARBON TETRACHLORID	E	ND	5000.0	ND	1000.0		
CHLOROBENZENE		ND	5000.0	ND	1000.0		
CHLOROETHANE		ND	5000.0	ND	1000.0		
2-CHLOROETHYLVINYL	ETHER	ND	10000.0	, ND	2000.0		
CHLOROFORM		ND	5000.0	ND	1000.0		
CHLOROMETHANE		ND	5000.0	ND	1000.0		
DIBROMOCHLOROMETHAN	E	ND	5000.0	ND	1000.0		
1,2-DICHLOROBENZENE		ND	5000.0	ND	1000.0		
1,3-DICHLOROBENZENE		ND	5000.0	ND	1000.0		
1,4-DICHLOROBENZENE		ND	5000.0	ND	1000.0		
1,1-DICHLOROETHANE		ИД	5000.0	ND	1000.0		
1,2-DICHLOROETHANE		ND	5000.0	ND	1000.0		
1,1-DICHLOROETHENE		ND	5000.0	ND	1000.0		
TRANS-1,2-DICHLOROE	PHENE	ND	5000.0	ND	1000.0		
1,2-DICHLOROPROPANE		ND	5000.0	ND	1000.0		
CIS-1,3-DICHLOROPRO		ND	5000.0	ND	1000.0		
TRANS-1,3-DICHLOROP	ROPENE	ND	5000.0	ND	1000.0		
ETHYL BENZENE		59000	5000.0	ND	1000.0		
METHYLENE CHLORIDE		ND	5000.0	ND	1000.0		
1,1,2,2-TETRACHLORO	ETHANE	ND	5000.0	ND	1000.0		
TETRACHLOROETHENE		ND	5000.0	ИD	1000.0		
TOLUENE		87000	5000.0	ИD	1000.0		
1,1,1-TRICHLOROETHA		ND	5000.0	ND	1000.0		
1,1,2-TRICHLOROETHAN	NE	ND	5000.0	ND	1000.0		
TRICHLOROETHENE		ND	5000.0	ИD	1000.0		
TRICHLOROFLUOROMETH	ANE	ND	5000.0	ND	1000.0		
VINYL CHLORIDE		ND	10000.0	ND	2000.0		
XYLENES ACETONE		290000	5000.0	2100	1000.0		
ACETONE		ND	100000.0	ND	20000.0		



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LABORATORY RESULTS

Laboratory Job No.: 892729

2-BUTANONE CARBON DISULFIDE 2-HEXANONE 4-METHYL-2-PENTANONE STYRENE VINYL ACETATE	ND ND ND ND ND ND	10000.0 10000.0 10000.0 10000.0 10000.0	ND ND ND ND ND	2000.0 2000.0 2000.0 2000.0 2000.0 2000.0
SURROGATE RECOVERIES-QC				
1,2-DICHLOROETHANE-D4 TOLUENE-D8 4-BROMOFLUOROBENZENE	69% 101% 87%		67% 109% 98%	

ND: NOT DETECTED.

SAMPLES S2, SP2, T2, AND T3 WERE RE-ANALYZED ON 07/06/89 AND 07/07/89 DUE TO SURROGATES OUT OF ACCEPTABLE RANGES DURING THE INITIAL ANALYSES. SURROGATE AMOUNTS FROM THE RE-ANALYSES ARE REPORTED.

ANALYST: PAUL MILLS



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LABORATORY RESULTS

Date Extracted: 06/21/89 Date Analyzed: 06/23/89 Date Reported: 07/06/89

ASSAY: WASTE OIL EPA 3550/SM503E

MATRIX: SOIL	MACOND OTT	DETECTION
LABNO SMPLNO-ID	WASTE OIL mg/kg	LIMIT mg/kg
39305 S1	ND	30
39306 S2	ND	30
39307 W1	4,000	30
39308 W2A '	50	30
39309 SP1	900	30
39310 SP2	ND	30
39311 T1	ND	30
39312 T2	30	30
39313 ТЗ	ND	30
39314 T4	1,350	30
39315 SP3	150	30

ANALYST: ROBERT REMLINGER



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LABORATORY RESULTS

Laboratory Job No.: 892729
Date Received: 06/19/89

Date Reported: 07/06/89

Date Analyzed: 06/23/89 ASSAY: TPH/DIESEL (EPA 3550/8015) MATRIX: SOIL

Date Extracted: 06/21/8

LABNO SMPLNO-ID	RESULTS	DET.LIM
39305 S1 DIESEL	ND	6.0 mg/kg
39306 S2 DIESEL	106 mg/kg	6.0 mg/kg
39307 W1 DIESEL	430 mg/kg	6.7 mg/kg
39308 W2A DIESEL	170 mg/kg	6.0 mg/kg
39309 SP1 DIESEL	240 mg/kg	6.0 mg/kg
39310 SP2 DIESEL	ND	6.7 mg/kg
39311 T1 DIESEL	ND	6.3 mg/kg
39312 T2 DIESEL	ND	6.7 mg/kg
39313 T3 DIESEL	ND	7.0 mg/kg
39314 T4 DIESEL	420 mg/kg	6.3 mg/kg



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LABORATORY RESULTS

Laboratory Job No.: 892729

LABNO SMPLNO-ID

RESULTS

DET.LIM

39315 SP3 DIESEL

40 mg/kg

6.0 mg/kg

ANALYST: ROBERT REMLINGER



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LABORATORY RESULTS

Laboratory Job No.: 892729
Date Received: 06/19/89
Date Reported: 07/06/89

ASSAY: TPH/GASOLINE (EPA 5020/8015) MATRIX: SOIL

Date Extracted: 06/22/8 Date Analyzed: 06/22/89

LABNO SMPLNO-ID	RESULTS	DET.LIM
39305 S1 GASOLINE	1.8 mg/kg	1.0 mg/kg
39306 S2 GASOLINE	62 mg/kg	1.0 mg/kg
39307 W1 GASOLINE	270 mg/kg	5.7 mg/kg
39308 W2A GASOLINE	2,300 mg/kg	120.0 mg/kg
39309 SP1 GASOLINE	184 mg/kg	30.0 mg/kg
39310 SP2 GASOLINE	ND	1.0 mg/kg
39311 T1 GASOLINE	ND	1.0 mg/kg
39312 T2 GASOLINE	5.0 mg/kg	1.7 mg/kg
39313 T3 GASOLINE	ND	1.0 mg/kg
39314 T4 GASOLINE	3,100 mg/kg	60.0 mg/kg



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LABORATORY

RESULTS

Laboratory Job No.: 892729

LABNO SMPLNO-ID

RESULTS

DET.LIM

39315 SP3 GASOLINE

120 mg/kg

1.0 mg/kg

ANALYST: ROBERT REMLINGER