Trace Analysis Laboratory, Inc.
3423 Investment Boulevard, #8 • Hayward, California 94545 (415) 783-6960

CALIFORNIA REGIONAL WATER
JAN 03 1989
QUALITY CONTROL BOARD

TAL

DATE: 8/26/88

LOG NO.: 6271 and 6272

DATE SAMPLED: 8/10/88 and 8/11/88

DATE RECEIVED: 8/10/88 and 8/11/88

CUSTOMER: Nine Hundred Doolittle Associates

REQUESTER: Joseph Zatkin

PROJECT: Waste Oil Sump, 900 Doolittle Drive, San Leandro

BAY COUNTY PROPERTIES

Sample Type: Sludge

Method and Constituent	Units	No. 1 Concentration	Detection Limit
DHS Method:			
Total Petroleum Hydrocarbons as Diesel	ug/kg	97,000,000	500,000
Standard Method 503E, Hydrocarbons:			
Oil and Grease	ug/kg	110,000,000	2,000,000
EPA Method 8080 for PCB:			
Aroclor 1016	ug/kg	< 50	50
Aroclor 1221	ug/kg	< 50	50
Aroclor 1232	ug/kg	< 50	50
Aroclor 1242	ug/kg	< 50	50
Aroclor 1248	ug/kg	< 50	50
Aroclor 1254	ug/kg	< 50	50
Aroclor 1260	ug/kg	< 50	50

exist

LUFT ... limit ... 10,000 ppb

TAL says: ...

Detectable solvents too! Needs additional investigation

LHM 1/5/89

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Method and Constituent	Units	Sample Type: Sludge No. 1 Concentration	Detection Limit
EPA Method 8010:			
Benzyl chloride	ug/kg	< 1,000	1,000
Bis (2-chloroethoxy) methane	ug/kg	< 1,000	1,000
Bis (2-chloroisopropyl) ether	ug/kg	< 1,000	1,000
Bromobenzene	ug/kg	< 1,000	1,000
Bromodichloromethane	ug/kg	< 1,000	1,000
Bromoform	ug/kg	< 1,000	1,000
Bromomethane	ug/kg	< 1,000	1,000
Carbon tetrachloride	ug/kg	< 1,000	1,000
Chloracetaldehyde	ug/kg	< 1,000	1,000
Chloral	ug/kg	< 1,000	1,000
Chlorobenzene	ug/kg	< 1,000	1,000
Chloroethane	ug/kg	< 1,000	1,000
Chloroform	ug/kg	< 1,000	1,000
1-Chlorohexane	ug/kg	< 1,000	1,000
2-Chloroethyl vinyl ether	ug/kg	< 1,000	1,000
Chloromethane	ug/kg	< 1,000	1,000
Chloromethyl methyl ether	ug/kg	< 1,000	1,000
Chlorotoluene	ug/kg	< 1,000	1,000
Dibromochloromethane	ug/kg	< 1,000	1,000
Dibromomethane	ug/kg	< 1,000	1,000
1,2-Dichlorobenzene	ug/kg	< 1,000	1,000

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Sample Type: Sludge

Method and Constituent	Units	No. 1 Concentration	No. 1 Detection Limit
1,3-Dichlorobenzene	ug/kg	< 1,000	1,000
1,4-Dichlorobenzene	ug/kg	< 1,000	1,000
Dichlorodifluoromethane	ug/kg	< 1,000	1,000
1,1-Dichloroethane	ug/kg	< 1,000	1,000
1,2-Dichloroethane	ug/kg	< 1,000	1,000
1,1-Dichloroethylene	ug/kg	< 1,000	1,000
trans-1,2-Dichloroethylene	ug/kg	140,000	1,000
Dichloromethane	ug/kg	< 1,000	1,000
1,2-Dichloropropane	ug/kg	< 1,000	1,000
1,3-Dichloropropylene	ug/kg	< 1,000	1,000
1,1,2,2-Tetrachloroethane	ug/kg	< 1,000	1,000
1,1,1,2-Tetrachloroethane	ug/kg	< 1,000	1,000
Tetrachloroethylene	ug/kg	< 1,000	1,000
1,1,1-Trichloroethane	ug/kg	< 1,000	1,000
1,1,2-Trichloroethane	ug/kg	< 1,000	1,000
Trichloroethylene	ug/kg	180,000	1,000
Trichlorofluoromethane	ug/kg	< 1,000	1,000
Trichloropropane	ug/kg	< 1,000	1,000
Vinyl chloride	ug/kg	4,700	1,000

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Sample Type: Sludge (Water Phase)

Method and Constituent	Units	No. 1 Concentration	Detection Limit
EPA Method 8270:			
N-Nitrosodimethylamine	ug/l	< 50	50
Phenol	ug/l	3,900	50
bis(-2-Chloroethyl) Ether	ug/l	< 50	50
2-Chlorophenol	ug/l	< 5.0	5
1,3-Dichlorobenzene	ug/l	< 50	50
1,4-Dichlorobenzene	ug/l	< 50	50
1,2-Dichlorobenzene	ug/l	< 50	50
N-Nitroso-Di-n-Propylamine	ug/l	< 50	50
Hexachloroethane	ug/l	< 50	50
Nitrobenzene	ug/l	< 50	50
Isophorone	ug/l	< 50	50
2-Nitrophenol	ug/l	< 5.0	5
2,4-Dimethylphenol	ug/l	< 5.0	5
bis(-2-Chloroethoxy) Methane	ug/l	< 50	50
2,4-Dichlorophenol	ug/l	< 5.0	5
1,2,4-Trichlorobenzene	ug/l	< 50	50
Naphthalene	ug/l	< 50	50
Hexachlorobutadiene	ug/l	< 50	50
4-Chloro-3-Methyl-phenol	ug/l	< 5.0	5
Hexachlorocyclo-pentadiene	ug/l	< 50	50
2,4,6-Trichlorophenol	ug/l	< 5.0	5
2-Chloronaphthalene	ug/l	< 50	50
Dimethyl Phthalate	ug/l	< 50	50
Acenaphthylene	ug/l	< 50	50

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Sample Type: Sludge (Water Phase)

Method and Constituent	Units	No.1 Concentration	Detection Limit
EPA Method 8270 (Continued):			
Acenaphthene	ug/l	< 50	50
2,4-Dinitrophenol	ug/l	< 50	50
4-Nitrophenol	ug/l	< 100	100
2,4-Dinitrotoluene	ug/l	< 50	50
2,6-Dinitrotoluene	ug/l	< 50	50
Diethylphthalate	ug/l	< 50	50
4-Chlorophenyl-phenylether	ug/l	< 50	50
Fluorene	ug/l	< 50	50
N-Nitrosodiphenylamine	ug/l	< 50	50
4-Bromophenyl-phenylether	ug/l	< 50	50
Hexachlorobenzene	ug/l	< 50	50
Pentachlorophenol	ug/l	< 5.0	5
Phenanthrene	ug/l	400	50
Anthracene	ug/l	1,000	50
Di-n-Butylphthalate	ug/l	< 50	50
Fluoranthene	ug/l	< 50	50
Benzidine	ug/l	< 2,000	2,000
Pyrene	ug/l	< 50	50
Butylbenzylphthalate	ug/l	< 50	50
3,3'-Dichlorobenzidine	ug/l	< 50	50
Benzo(a)Anthracene	ug/l	< 50	50
bis(2-Ethylhexyl) Phthalate	ug/l	< 5,000	5,000
Chrysene	ug/l	< 50	50
Di-n-Octyl Phthalate	ug/l	< 50	50
Benzo(b)Fluoranthene	ug/l	< 50	50
Benzo(k)Fluoranthene	ug/l	< 50	50

DATE: 8/30/88
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Sample Type: Sludge (Oil Phase)

Method and Constituent	Units	No. 1 Concentration	No. 1 Detection Limit
EPA Method 8270:			
N-Nitrosodimethylamine	ug/kg	< 5,000	5,000
Phenol	ug/kg	< 5,000	5,000
bis(-2-Chloroethyl) Ether	ug/kg	< 5,000	5,000
2-Chlorophenol	ug/kg	< 5,000	5,000
1,3-Dichlorobenzene	ug/kg	< 5,000	5,000
1,4-Dichlorobenzene	ug/kg	< 5,000	5,000
1,2-Dichlorobenzene	ug/kg	< 5.000	5,000
N-Nitroso-Di-n-Propylamine	ug/kg	< 5,000	5,000
Hexachloroethane	ug/kg	< 5,000	5,000
Nitrobenzene	ug/kg	< 5,000	5,000
Isophorone	ug/kg	< 5,000	5,000
2-Nitrophenol	ug/kg	< 5,000	5,000
2,4-Dimethylphenol	ug/kg	< 5,000	5,000
bis(-2-Chloroethoxy) Methane	ug/kg	< 5,000	5,000
2,4-Dichlorophenol	ug/kg	< 5,000	5,000
1,2,4-Trichlorobenzene	ug/kg	< 5,000	5,000
Naphthalene	ug/kg	< 5,000	5,000
Hexachlorobutadiene	ug/kg	< 5,000	5,000
4-Chloro-3-Methyl-phenol	ug/kg	< 5,000	5,000
Hexachlorocyclo-pentadiene	ug/kg	< 5,000	5,000
2,4,6-Trichlorophenol	ug/kg	< 5,000	5,000
2-Chloronaphthalene	ug/kg	< 5,000	5,000
Dimethyl Phthalate	ug/kg	< 5,000	5,000
Acenaphthylene	ug/kg	< 5,000	5,000
Acenaphthene	ug/kg	< 5,000	5,000

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Sample Type: Sludge (Water Phase)

Method and Constituent	Units	No. 1 Concentration	Detection Limit
EPA Method 8270 (Continued):			
Benzo(a)Pyrene	ug/l	< 50	50
Indeno(1,2,3,-cd)Pyrene	ug/l	< 50	50
Dibenz(a,h)Anthracene	ug/l	< 50	50
Benzo(g,h,i)Perylene	ug/l	< 50	50
Semi-Quantified Results			
Unidentified Matrix	ug/l	600,000	

Roland X. Tso for
Hugh R. McLean
Supervisory Chemist

HRM:tms

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Sample Type: Sludge (Oil Phase)

Method and Constituent	Units	No. 1 Concentration	No. 1 Detection Limit
EPA Method 8270 (Continued):			
2,4-Dinitrophenol	ug/kg	< 50,000	50,000
4-Nitrophenol	ug/kg	< 100,000	100,000
2,4-Dinitrotoluene	ug/kg	< 5,000	5,000
2,6-Dinitrotoluene	ug/kg	< 5,000	5,000
Diethylphthalate	ug/kg	< 5,000	5,000
4-Chlorophenyl-phenylether	ug/kg	< 5,000	5,000
Fluorene	ug/kg	< 5,000	5,000
N-Nitrosodiphenylamine	ug/kg	< 5,000	5,000
4-Bromophenyl-phenylether	ug/kg	< 5,000	5,000
Hexachlorobenzene	ug/kg	< 5,000	5,000
Pentachlorophenol	ug/kg	< 5,000	5,000
Phenanthrene	ug/kg	43,000	5,000
Anthracene	ug/kg	< 5,000	5,000
Di-n-Butylphthalate	ug/kg	< 5,000	5,000
Fluoranthene	ug/kg	< 5,000	5,000
Benzidine	ug/kg	< 200,000	200,000
Pyrene	ug/kg	13,000	5,000
Butylbenzylphthalate	ug/kg	< 5,000	5,000
3,3'-Dichlorobenzidine	ug/kg	< 5,000	5,000
Benzo(a)Anthracene	ug/kg	< 5,000	5,000
bis(2-Ethylhexyl) Phthalate	ug/kg	< 500,000	500,000
Chrysene	ug/kg	< 5,000	5,000
Di-n-Octyl Phthalate	ug/kg	< 5,000	5,000
Benzo(b)Fluoranthene	ug/kg	< 5,000	5,000
Benzo(k)Fluoranthene	ug/kg	< 5,000	5,000
Benzo(a)Pyrene	ug/kg	< 5,000	5,000

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Sample Type: Sludge (Oil Phase)

Method and Constituent	Units	No. 1 Concentration	Detection Limit
EPA Method 8270 (Continued):			
Indeno(1,2,3-cd)Pyrene	ug/kg	< 5,000	5,000
Dibenz(a,h)Anthracene	ug/kg	< 5,000	5,000
Benzo(g,h,i)Perylene	ug/kg	< 5,000	5,000
Semi-Quantified Results:			
Unidentified Matrix	ug/kg	50,000,000	

Pages seven through nine have been added to include the 8270 analysis for the oil phase of the sludge sample.

Hugh R. McLean
Supervisory Chemist

HRM:mln

Trace Analysis Laboratory, Inc.
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log 6271

TAL

CHAIN OF CUSTODY RECORD

PROJ. NO.	PROJECT NAME Waste Oil Tank 900 Doolittle Drive, San Leandro					NO. OF CONTAINERS	O&G (5520)	TPH-D	BTEX	PCB	REMARKS
SAMPLERS: (Signature) Gilbertine Johnson											
STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION						
1	8/10/88	2:25 PM		✓	Waste Oil Tank	6	✓	✓	✓	✓	These analyses were recommended by Bill Owen of the California Toxic Substances Office in Emeryville during our phone conversation - 2:50 pm this day at the site, and 8:35 AM of August 11, 1988.

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
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)	Date / Time	Remarks	

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Cog6272
4

TAL

CHAIN OF CUSTODY RECORD

PROJ. NO.	PROJECT NAME Waste Oil Sump 900 Doolittle Drive, San Leandro
SAMPLERS: *(Signature)*	[signature]

STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CON-TAINERS	8270					REMARKS
1	8/11/88	9:25 AM		✓	Waste Oil Sump	2	✓					This analyses was recommended as per Bill Owen of California Toxic Substances Office in Emeryville.

Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*
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)*	Date / Time	Remarks	