

(FORMERLY MED-TOX)

Quanteq Laboratories
An Ecologics Company

FAX TRANSMISSION COVER

QUANTEQ LABORATORIES
3440 VINCENT ROAD
PLEASANT HILL, CA 94523

FAX NO: (510) 930-0256
PHONE NO: (510) 930-9090

DATE: 4-20-92 **# OF PAGES (Including cover)** 13

REPLY REQUESTED: (circle request) **NO** **YES** **URGENT** **FAX REPLY**
PHONE REPLY **FYI**

TO: Susan Hugo
Alameda County Health Care Agency

FROM: Robin Byars

QUANTEQ PROJ. NO: 9204054 & 4066
CLIENT PROJ. ID: 1649.08 Levine-Fricke

FINAL RESULTS Basinland Site
 PARTIAL RESULTS Emeryville
 PRELIMINARY RESULTS, SUBJECT TO APPROVAL

COMMENTS:
AGW (1) OIE 1.2 ppm diesel water?
OGW (2) OZE 0.3 " diesel 0.4 ppm OEG
cis 1,2-Dichloroethene at 7 ppb

CHANGE ORDER REQUEST

QUANTEQ Laboratories
3440 Vincent Road
Pleasant Hill, CA 945223

Phone (510) 930-9090

REPLY REQUESTED

QUANTEQ FAX (510) 930-0256

DATE/TIME OF CALL 4-15-92
QUANTEQ REP. Robin Byrnes
QUANTEQ PROJ. # 9204054

CLIENT Michael Stoll
COMPANY Levine-Fricke
JOB # 1649.08
COC # 9015

We hereby agree to make the change(s) specified below:

Additional Analysis - Run 8270s
Samples O/CEB-5-2-8 05A
P-1-1.5 09A
4-5 day TAT
50% Rush Surcharge

X

ACCEPTED - The above specifications of this Change Order are satisfactory and are hereby accepted.

Date of acceptance _____

Signature _____

PAGE 4
RECEIVED: 04/07/92QUANTEQ
8270 RESULTS BY FRACTIONDATA SHEET
ORD # 92-04-054-0RDASH 05A SAMPLE ID B/CEB-5-E-8 STORED R-4, S-A
TEST GC/MS Semi-volatile Org/S COLLECTED 04/07/92DILUTION FACTOR: 1 DATE EXTRACTED 4/15
INSTRUMENT: 11 DATE ANALYZED: 4/18METHOD 8270
SEMI-VOLATILE ORGANIC COMPOUNDS

GC/MS EXTRACTABLES

COMPOUND	CAS #	CONCENTRATION (ug/kg)	DETECTION LIMIT (ug/kg) (default listed)
Acenaphthene	83-32-9	ND	330
Acenaphthylene	208-96-8		330
Anthracene	120-12-7		330
Benzidine	92-87-5		1600
Benzoic Acid	65-85-0		1600
Benzo(a)anthracene	56-55-3		330
Benzo(b)fluoranthene	205-99-2		330
Benzo(k)fluoranthene	207-08-9		330
Benzo(g,h,i)perylene	191-24-2		330
Benzo(a)pyrene	50-32-8		330
Benzyl Alcohol	100-51-6		660
Bis(2-chloroethoxy) methane	111-91-1		330
Bis(2-chloroethyl)ether	111-44-4		330
Bis(2-chloroisopropyl) ether	39638-32-9		330
Bis(2-ethylhexyl) phthalate	117-81-7		330
4-Bromophenyl Phenyl ether	101-55-3		330
Butylbenzyl phthalate	85-68-7		330
4-Chloroaniline	106-47-8		660
2-Chloronaphthalene	91-58-7		330
4-Chlorophenyl phenyl ether	7005-72-3		330
Chrysene	218-01-9		330
Dibenzo(a,h)anthracene	53-70-3		330
Dibenzofuran	132-64-9		330
Di-n-butylphthalate	84-74-2		330
1,2-Dichlorobenzene	95-50-1		330

ND = Not Detected

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QUANTEQ

DATA SHEET
8270 RESULTS BY FRACTIONORD # 92-04-054-OR
CONTINUED FROM ABOVEDASH 05A SAMPLE ID B/CEB-5-E-8 STORED R-4, S-A
TEST GC/MS Semi-volatile Org/S COLLECTED 04/07/92METHOD 8270
GC/MS EXTRACTABLES (Cont.)

COMPOUND	CAS #	CONCENTRATION (ug/kg)	DETECTION LIMIT (ug/kg)
1,3-Dichlorobenzene	541-73-1	ND	330
1,4-Dichlorobenzene	106-46-7		330
3,3'-Dichlorobenzidine	91-94-1		660
Diethylphthalate	84-66-2		330
Dimethylphthalate	131-11-3		330
2,4-Dinitrotoluene	121-14-2		330
2,6-Dinitrotoluene	606-20-2		330
Di-n-octylphthalate	117-84-0		330
1,2-Diphenylhydrazine	122-66-7		330
Fluoroanthene	206-44-0		330
Fluorene	86-73-7		330
Hexachlorobenzene	118-74-1		330
Hexachlorobutadiene	87-68-3		330
Hexachlorocyclopentadiene	77-47-4		330
Hexachloroethane	67-72-1		330
Indeno(1,2,3-cd)pyrene	193-39-5		330
Isophorone	78-59-1		330
2-Methylnaphthalene	91-57-6		330
Naphthalene	91-20-3		330
2-Nitroaniline	88-74-4		1600
3-Nitroaniline	99-09-2		1600
4-Nitroaniline	100-01-6		1600
Nitrobenzene	98-95-3		330
N-nitrosodimethylamine	62-75-9		330
N-nitrosodiphenylamine	86-30-6		330
N-nitroso-di-n-propylamine	621-64-7		330
Phenanthrene	85-01-8		330
Pyrene	129-00-0		330
1,2,4-Trichlorobenzene	120-82-1		330

ND = Not Detected

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RECEIVED: 04/07/92

QUANTEQ
8270 RESULTS BY FRACTION

DATA SHEET
ORD # 92-04-054-OR
CONTINUED FROM ABOVE

DASH 05A SAMPLE ID B/CGB-5-E-8 STORED R-4, S-A
TEST GC/MS Semi-volatile Org/S COLLECTED 04/07/92

GC/MS EXTRACTABLES (cont.)

COMPOUND	CAS #	CONCENTRATION (ug/kg)	DETECTION LIMIT (ug/kg)
4-Chloro-3-methylphenol	59-50-7	ND	330
2-Chlorophenol	95-57-8		330
2,4-Dichlorophenol	120-83-2		330
2,4-Dimethylphenol	105-67-9		330
4,6-Dinitro-2-methylphenol	534-52-1		1600
2,4-Dinitrophenol	51-28-5		1600
2-Methylphenol	95-48-7		330
4-Methylphenol	106-44-5		330
2-Nitrophenol	88-75-5		330
4-Nitrophenol	100-02-7		1600
Pentachlorophenol	87-86-5		1600
Phenol	108-95-2		330
2,4,5-Trichlorophenol	95-95-4		330
2,4,6-Trichlorophenol	88-06-2		330

ND = Not Detected

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RECEIVED: 04/07/92

QUANTEQ

DATA SHEET
8270 RESULTS BY FRACTION

ORD # 92-04-054-OR

DASH 09A SAMPLE ID P-1-1.5 STORED R-4, S-A
TEST GC/MS Semi-volatile Org/S COLLECTED 04/07/92DILUTION FACTOR: 1DATE EXTRACTED 4/15INSTRUMENT: 11DATE ANALYZED: 4/18METHOD 8270
SEMI-VOLATILE ORGANIC COMPOUNDS

GC/MS EXTRACTABLES

COMPOUND	CAS #	CONCENTRATION (ug/kg)	DETECTION LIMIT (ug/kg) (default listed)
Acenaphthene	83-32-9	<u>ND</u>	330
Acenaphthylene	208-96-8	<u>ND</u>	330
Anthracene	120-12-7	<u>ND</u>	330
Benzdine	92-87-5	<u>ND</u>	1600
Benzoic Acid	65-85-0	<u>ND</u>	1600
Benzo(a)anthracene	56-55-3	<u>ND</u>	330
Benzo(b)fluoranthene	205-99-2	<u>ND</u>	330
Benzo(k)fluoranthene	207-08-9	<u>ND</u>	330
Benzo(g,h,i)perylene	191-24-2	<u>ND</u>	330
Benzo(a)pyrene	50-32-8	<u>ND</u>	330
Benzyl Alcohol	100-51-6	<u>ND</u>	660
Bis(2-chloroethoxy) methane	111-91-1	<u>ND</u>	330
Bis(2-chloroethyl)ether	111-44-4	<u>ND</u>	330
Bis(2-chloroisopropyl) ether	39638-32-9	<u>ND</u>	330
Bis(2-ethylhexyl) phthalate	117-81-7	<u>ND</u>	330
4-Bromophenyl Phenyl ether	101-55-3	<u>ND</u>	330
Butylbenzyl phthalate	85-68-7	<u>ND</u>	330
4-Chloroaniline	106-47-8	<u>ND</u>	660
2-Chloronaphthalene	91-58-7	<u>ND</u>	330
4-Chlorophenyl phenyl ether	7005-72-3	<u>ND</u>	330
Chrysene	218-01-9	<u>ND</u>	330
Dibenzo(a,h)anthracene	53-70-3	<u>ND</u>	330
Dibenzofuran	132-64-9	<u>ND</u>	330
Di-n-butylphthalate	84-74-2	<u>ND</u>	330
1,2-Dichlorobenzene	95-50-1	<u>ND</u>	330

ND = Not Detected

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QUANTEQ
8270 RESULTS BY FRACTION

DATA SHEET
ORD # 92-04-054-0R
CONTINUED FROM ABOVE

DASH 09A SAMPLE ID P-1-1.5 STORED R-4, S-A
TEST GC/MS Semi-volatile Org/S COLLECTED 04/07/92

METHOD 8270
GC/MS EXTRACTABLES (Cont.)

COMPOUND	CAS #	CONCENTRATION (ug/kg)	DETECTION LIMIT (ug/kg)
1,3-Dichlorobenzene	541-73-1	ND	330
1,4-Dichlorobenzene	106-46-7		330
3,3'-Dichlorobenzidine	91-94-1		660
Diethylphthalate	84-66-2		330
Dimethylphthalate	131-11-3		330
2,4-Dinitrotoluene	121-14-2		330
2,6-Dinitrotoluene	606-20-2		330
Di-n-octylphthalate	117-84-0		330
1,2-Diphenylhydrazine	122-66-7		330
Fluoroanthene	206-44-0		330
Fluorene	86-73-7		330
Hexachlorobenzene	118-74-1		330
Hexachlorobutadiene	87-68-3		330
Hexachlorocyclopentadiene	77-47-4		330
Hexachloroethane	67-72-1		330
Indeno(1,2,3-cd)pyrene	193-39-5		330
Isophorone	78-59-1		330
2-Methylnaphthalene	91-57-6		330
Naphthalene	91-20-3		330
2-Nitroaniline	88-74-4		1600
3-Nitroaniline	99-09-2		1600
4-Nitroaniline	100-01-6		1600
Nitrobenzene	98-95-3		330
N-nitrosodimethylamine	62-75-9		330
N-nitrosodiphenylamine	86-30-6		330
N-nitroso-di-n-propylamine	621-64-7		330
Phenanthrene	85-01-8		330
Pyrene	129-00-0		330
1,2,4-Trichlorobenzene	120-82-1		330

ND = Not Detected

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QUANTEQ
8270 RESULTS BY FRACTION

ORD # 92-04-054-OR
CONTINUED FROM ABOVE

DASH 09A SAMPLE ID P-1-1.5 STORED R-4, S-A
TEST GC/MS Semi-volatile Org/S COLLECTED 04/07/92

GC/MS EXTRACTABLES (cont.)

COMPOUND	CAS #	CONCENTRATION (ug/kg)	DETECTION LIMIT (ug/kg)
4-Chloro-3-methylphenol	59-50-7	ND	330
2-Chlorophenol	95-57-8		330
2,4-Dichlorophenol	120-83-2		330
2,4-Dimethylphenol	105-67-9		330
4,6-Dinitro-2-methylphenol	534-52-1		1600
2,4-Dinitrophenol	51-28-5		1600
2-Methylphenol	95-48-7		330
4-Methylphenol	106-44-5		330
2-Nitrophenol	88-75-5		330
4-Nitrophenol	100-02-7		1600
Pentachlorophenol	87-86-5		1600
Phenol	108-95-2		330
2,4,5-Trichlorophenol	95-95-4		330
2,4,6-Trichlorophenol	88-06-2		330

ND = Not Detected

CHAIN OF CUSTODY / ANALYSES REQUEST FORM

K-1,2-D

9204066

Project No.: 1649.08	Field Logbook No.:	Date: 4/8/92	Serial No.: 9010
Project Name: Bashland		Project Location: Emeryville, CA	

Sampler (Signature): <i>Michael Stoll</i>						ANALYSES						Samplers: MJS			
SAMPLES						EPA 601	EPA 624	TPH-G	TPH-D.O	O+6 SS	6	HOLD	RUSH	REMARKS	
SAMPLE NO.	DATE	TIME	LAB SAMPLE NO.	NO. OF CONTAINERS	SAMPLE TYPE										
<input checked="" type="checkbox"/> A GW(1)	4/8/92		O1A-H	8	Water	X	X	X	X					TPH - Gasoline	
<input checked="" type="checkbox"/> D GW(2)	4/8/92		O2A-H	8	Water	X	X	X	X					TPH-D+O (Diesel + Oil)	
														O+6: SS20 C+P oil + grease	
														624 (BTEX + LHC)	
														Per Tri-Regional Recommendation	
														(4 VOA + 4 Liter each)	
														Regular 7-day TAT	

RELINQUISHED BY: (Signature) <i>Michael Stoll</i>	DATE: 4/8/92	TIME: 9:50pm	RECEIVED BY: (Signature) <i>Pam Brown</i>	DATE: 4/8/92	TIME: 2:50
RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)	DATE	TIME
RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)	DATE	TIME
METHOD OF SHIPMENT:	DATE	TIME	LAB COMMENTS:		

Sample Collector: LEVINE-FRICKE 1900 Powell Street, 12th Floor Emeryville, Ca 94608 (415) 652-4500	Analytical Laboratory: Quanteg, Pleasant Hill, CA
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377 P09

QUANTEG

APR 20 '92 15:20

QUANTEQ DATA SHEET

Quanteq Laboratories
An Ecology Company

QUANTEQ JOB# 9204066

CLIENT PROJ. NO. 1649.08

DATE EXTRACTED: 4-20-92

DILUTION FACTOR: —

DATE ANALYZED: 4-20-92

INSTRUMENT(S): IR

STANDARD METHOD 5520 - OIL & GREASE

<u>Sample Identification</u>		<u>Oil & Grease</u>	<u>Hydrocarbons</u>
<u>Client Id.</u>	<u>Lab No.</u>	<u>(mg/L)</u>	<u>(mg/L)</u>
<u>AGW (1)</u>	<u>01G</u>	<u>ND</u>	<u>ND</u>
<u>DGW (2)</u>	<u>02G</u>	<u>ND</u>	<u>ND</u>

Detection Limit 0.5 mg/L 0.5 mg/L
 Method: 5520 C 5520 F

ND = Not Detected

MED-TOX DATA SHEET

MED-TOX JOB# 9204066

CLIENT PROJ. NO. 1649.08

DATE EXTRACTED: 4-13-92

DILUTION FACTOR: 1

DATE ANALYZED: 4/16/92, 4-15-92
TPHex

INSTRUMENT(S): F

HYDROCARBONS

Sample Identification		Purgeable Hydrocarbons as Gas (mg/L)	Extractable Hydrocarbons as diesel (mg/L)	Extractable Hydrocarbons as oil (mg/L)	Extractable Hydrocarbons as ()
Client Id.	Lab No.				
<u>AGW(1)</u>	<u>DIC</u>	<u>ND</u>	<u>—</u>	<u>—</u>	<u>—</u>
<u>↓</u>	<u>DIE</u>	<u>—</u>	<u>ND</u>	<u>ND</u>	<u>—</u>
<u>DGW(2)</u>	<u>OZC</u>	<u>ND</u>	<u>—</u>	<u>—</u>	<u>—</u>
<u>↓</u>	<u>OZE</u>	<u>—</u>	<u>ND</u>	<u>ND</u>	<u>—</u>

Detection Limit

0.05 mg/L

0.05 mg/L

0.1 mg/L

Method: 8015

(5030 GC-FID)

(3520 GC-FID)

ND = Not Detected

TPHDATA

PAGE 1
RECEIVED: 04/09/92QUANTEQ DATA SHEET
EPA624 RESULTS BY FRACTION

ORD # 92-04-066-OR

DASH 01A SAMPLE ID AGW (1) STORED R-3,S-2
TEST GC/MS Volatile Organics COLLECTED 04/08/92EPA METHOD 8240 (WATER MATRIX)
VOLATILE ORGANIC COMPOUNDSDILUTION FACTOR: 1 DATE ANALYZED: 4/14
INSTRUMENT: 12

COMPOUND	CAS #	CONCENTRATION (ug/L)	DETECTION LIMIT (ug/L) (Default)
Acetone	67-64-1	ND	(100)
Benzene	71-43-2		(5)
Bromodichloromethane	75-27-4		(5)
Bromoform	75-25-2		(5)
Bromomethane	74-83-9		(10)
2-Butanone	78-93-3		(100)
Carbon Disulfide	75-15-0		(10)
Carbon Tetrachloride	56-23-5		(5)
Chlorobenzene	108-90-7		(5)
Chloroethane	75-00-3		(10)
2-Chloroethyl Vinyl Ether	110-75-8		(10)
Chloroform	67-66-3		(5)
Chloromethane	74-87-3		(10)
Dibromochloromethane	124-48-1		(5)
1,1-Dichloroethane	75-34-3		(5)
1,2-Dichloroethane	107-06-2		(5)
1,1-Dichloroethene	75-35-4		(5)
cis-1,2-Dichloroethene	156-69-9		(5)
trans-1,2-Dichloroethene	156-60-5	ND	(5)
1,2-Dichloropropane	78-87-5		(5)
cis-1,3-Dichloropropene	10061-01-5		(5)
trans-1,3-Dichloropropene	10061-02-6		(5)
Ethylbenzene	100-41-4		(5)
2-Hexanone	591-78-6		(50)
Methylene Chloride	75-09-2		(5)
4-Methyl-2-pentanone	108-10-1		(50)
Styrene	100-42-5		(5)
1,1,2,2-Tetrachloroethane	79-34-5		(5)
Tetrachloroethene	127-18-4		(5)
Toluene	108-88-3		(5)
1,1,1-Trichloroethane	71-55-6		(5)
1,1,2-Trichloroethane	79-00-5		(5)
Trichloroethene	79-01-6		(5)
Vinyl Acetate	108-05-4	ND	(50)
Vinyl Chloride	75-01-4		(10)
Xylenes, total	1330-20-7		(10)

PAGE 2
RECEIVED: 04/09/92QUANTEQ
EPA624 RESULTS BY FRACTION

ORD # 92-04-066-0R

DASH 02A SAMPLE ID DGM (2) STORED R-3,S-2
TEST GC/MS Volatile Organics COLLECTED 04/08/92EPA METHOD 8240 (WATER MATRIX)
VOLATILE ORGANIC COMPOUNDSDILUTION FACTOR: 1 DATE ANALYZED: 4-14-92INSTRUMENT: 12

COMPOUND	CAS #	CONCENTRATION (ug/L)	DETECTION LIMIT (ug/L) (Default)
Acetone	67-64-1	ND	(100)
Benzene	71-43-2		(5)
Bromodichloromethane	75-27-4		(5)
Bromoform	75-25-2		(5)
Bromomethane	74-83-9		(10)
2-Butanone	78-93-3		(100)
Carbon Disulfide	75-15-0		(10)
Carbon Tetrachloride	56-23-5		(5)
Chlorobenzene	108-90-7		(5)
Chloroethane	75-00-3		(10)
2-Chloroethyl Vinyl Ether	110-75-8		(10)
Chloroform	67-66-3		(5)
Chloromethane	74-87-3		(10)
Dibromochloromethane	124-48-1		(5)
1,1-Dichloroethane	75-34-3		(5)
1,2-Dichloroethane	107-06-2		(5)
1,1-Dichloroethene	75-35-4		(5)
cis-1,2-Dichloroethene	156-69-9		(5)
trans-1,2-Dichloroethene	156-60-5	ND	(5)
1,2-Dichloropropane	78-87-5		(5)
cis-1,3-Dichloropropene	10061-01-5		(5)
trans-1,3-Dichloropropene	10061-02-6		(5)
Ethylbenzene	100-41-4		(5)
2-Hexanone	591-78-6		(50)
Methylene Chloride	75-09-2		(5)
4-Methyl-2-pentanone	108-10-1		(50)
Styrene	100-42-5		(5)
1,1,2,2-Tetrachloroethane	79-34-5		(5)
Tetrachloroethene	127-18-4		(5)
Toluene	108-88-3		(5)
1,1,1-Trichloroethane	71-55-6		(5)
1,1,2-Trichloroethane	79-00-5		(5)
Trichloroethene	79-01-6		(5)
Vinyl Acetate	108-05-4	ND	(50)
Vinyl Chloride	75-01-4		(10)
Xylenes, total	1330-20-7		(10)