N00296.002165
MOFFETT FIELD
SSIC NO. 5090.3

5090
Ser 09ER5SD/5162
February 9, 1995

Ms. Susan Gladstone
California Regional Water Quality Control Board-San Francisco Bay Region
2101 Webster Street, Suite 500
Oakland, California 94612

Subject: **Moffett Federal Airfield (MFA) Site 9 Source Control Measure (SCM) Self-Monitoring Report for November 28, 1994 to December 11, 1994**

Dear Ms. Gladstone:

The U.S. Navy is submitting this self-monitoring report for the three Site 9 source control measures at MFA. This self-monitoring report covers operations from November 28, 1994, to December 11, 1994. This report contains, in attachments, information on flow volumes, process stream pH and temperature, documentation of any leakage or overflow, system maintenance, discharge limit exceedences, and all sample analytical results.

The Building 6 and Building 12 treatment systems ran continuously during this reporting period. The Building 45 treatment system ran intermittently for 4 days but was never sampled due to transfer pump malfunctions and because the GAC beds plugged with precipitate from the air stripper. The Building 45 system will not operate until a chemical addition system can be installed to minimize the precipitate problem. Discharge limits for organic constituents were met by both of the operating systems for these 2 weeks. The Building 6 system samples exceeded the discharge limit for selenium and zinc in both the dissolved and total metals analyses. The Building 12 system samples exceeded the discharge limits for total and dissolved zinc. All fish toxicity tests showed the treatment systems' effluent to be nontoxic to the three spined stickleback. Inorganic constituent concentrations in the National Aeronautics and Space Administration (NASA) settling basin do not appear to correspond to levels found in the treatment system effluents. Details of all treatment system discharge limit exceedences are included as an attachment.

The constituents that exceeded discharge limits during these 2 weeks of operation are both naturally occurring in groundwater. These constituents are at levels consistent with those found in background data, historical extraction well data, basewide aquifer data, and receiving water data. These constituents will continue to be monitored to evaluate if any trends are apparent or if the fluctuating effluent concentrations are due to fluctuating natural levels.

Subj: Moffett Federal Airfield (MFA) Site 9 Source Control Measure (SCM) Self-Monitoring Report for November 28, 1994 to December 11, 1994

I certify that the information contained in this document and all attachments is, to the best of my knowledge, accurate and complete. Please call me at 415-244-2563 or Mark Kadnuck at 303-295-1101 if you have any questions or comments.

Sincerely,

Original signed by:

Stephen Chao
BRAC Installation Coordinator

Encl:
Self- Monitoring Report for November 28, 1994 to December 11, 1994

Blind copy to :
09ER5, 09ER5ST, 09ER5DC
Mark Kadnuck (PRC)
Admin. record
Chron, blue, pink, green
File:SM121194.doc/7 Feb 95

Subj: Moffett Federal Airfield (MFA) Site 9 Source Control Measure (SCM) Self-Monitoring Report for November 28, 1994 to December 11, 1994

I certify that the information contained in this document and all attachments is, to the best of my knowledge, accurate and complete. Please call me at 415-244-2563 or Mark Kadnuck at 303-295-1101 if you have any questions or comments.

Sincerely,

STEPHEN CHAO
BRAC Installation Coordinator

Encl:
Self- Monitoring Report for November 28, 1994 to December 11, 1994

N00296.002165
MOFFETT FIELD
SSIC NO. 5090.3

MOFFETT FEDERAL AIRFIELD SITE 9 SOURCE CONTROL MEASURES SELF-MONITORING REPORT FOR NOVEMBER 28, 1994 TO DECEMBER 11, 1994

THE ABOVE IDENTIFIED REPORT IS INCOMPLETE. IT COULD NOT BE DETERMINED WHETHER PAGES ARE MISSING OR THE DOCUMENT WAS ISSUED WITHOUT THESE PAGES.

QUESTIONS MAY BE DIRECTED TO:

DIANE C. SILVA
RECORDS MANAGEMENT SPECIALIST
NAVAL FACILITIES ENGINEERING COMMAND SOUTHWEST
1220 PACIFIC HIGHWAY
SAN DIEGO, CA 92132

TELEPHONE: (619) 532-3676

MOFFETT FEDERAL AIRFIELD
SITE 9 SOURCE CONTROL MEASURES
SELF-MONITORING REPORT

Reporting Period: Nov. 28, 1994 - Dec. 11, 1994

System Data*	Bldg 45 System	Bldg 12 System	Bldg 6 System
Total Flow for Period (gal)	16600	30700	30500
Influent pH	not sampled	7.5	7.7
Effluent pH	not sampled	7.9	8.5
Influent Temperature (C)	not sampled	19	23.3
Effluent Temperature (C)	not sampled	15.5	17.4

* Analytical data is attached

Leakage or Overflow Documentation (include date, time, duration, location, and volume)
None

Treatment System Maintenance for Period
Building 45: Cleaned out flow meter and changed out dirty bag filter on 11/28. Took
pump apart and cleaned out scale on 12/1. Restarted the system to find the lead GAC
bed plugged with scale on 12/1. System was shut down until a chemical addition system
can be installed to prevent future scaling problems.
Building 12: Cleaned flow meter on 11/29.
Building 6: Changed out dirty bag filter on 12/7.

MOFFETT FEDERAL AIRFIELD
SITE 9 SOURCE CONTROL MEASURES
SELF-MONITORING REPORT

Reporting Period: Nov. 28, 1994 - Dec. 11, 1994

TREATMENT SYSTEM
DISCHARGE LIMIT EXCEEDENCE SUMMARY

Sample ID	Analyte	Concentration (ug/L)	Discharge Limit (ug/L)
TS-S9-SP4-06	Se (tot)	5.5	5
TS-S9-SP4-06	Zn (tot)	308	110
TS-S9-SP4-06	Se (diss)	7.7	5
TS-S9-SP4-06	Zn (diss)	362	110
TS-S9-SP4-12	Zn (tot)	148	110
TS-S9-SP4-12	Zn (diss)	133	110

SAMPLE ID DESCRIPTION

BUILDING 6:
TS-S9-SP1-06 -- System Influent
TS-S9-SP3-06 -- GAC Bed 1 Effluent
TS-S9-SP4-06 -- System Effluent

BUILDING 12:
TS-S9-SP1-12 -- System Influent
TS-S9-SP3-12 -- GAC Bed 1 Effluent
TS-S9-SP4-12 -- System Effluent

BUILDING 45:
TS-S9-SP1-45 -- W61-1 System Influent
TS-S9-SP2-45 -- FP9-1 System Influent
TS-S9-SP3-45 -- Air Stripper Effluent
TS-S9-SP5-45 -- GAC Bed 1 Effluent
TS-S9-SP6-45 -- System Effluent

NASA SETTLING BASIN:
RW-S9-NSB-01 -- Settling Basin Effluent

CERTIFICATION

I certify that the information contained in this document is, to the best of my knowledge, accurate and complete.

Mark A. Kadnuck

Mark A. Kadnuck, P.E.
Project Engineer

COLORADO REGISTERED PROFESSIONAL ENGINEER
MARK A. KADNUCK
29842

Mark A. Kadnuck 2-17-95

Inchcape Testing Services
Anametrix Laboratories

FAX TRANSMITTAL COVER SHEET

TO: DATE: 12-22-94

NAME: Jean Barranco

COMPANY: PRC

FAX #: (303) 295 - 2818

TOTAL NUMBER OF PAGES (INCLUDING THIS COVER SHEET): 4

NOTE: Please confirm receipt of the fax and return this coversheet via fax:

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FROM:

NAME: Tracey Pham / Erin Surmont

ITS - ANAMETRIX LABORATORIES
FAX : (408) 385-7510
PHONE : (408) 432 - 8192

If all pages are not received, please notify the sender at (408) 432 - 8192.

COMMENTS: CTO : 0235 SDG : 59106
PRC Moffet Site 9 -
TPH(BTEX) - 10 days TAT
-01 → -06

PRELIM RESULTS

464

9412100 10/37

CHAIN-OF-CUSTODY RECORD

DESTINATION Anametrix

PROJECT NAME: MOFFETT SITE 9 SCM

PROJECT JOB #: 044-0235IRSC9C

SAMPLER(S): PRINTED NAME AND SIGNATURE: Steven Broering Steven Broering

SAMPLING TEAM #: NA

	SAMPLE I.D.	DATE OF COLLECTION	TIME OF COLLECTION	SAMPLE MEDIUM (MATRIX)	GRAB	COMP	SAMPLE LOCATION	NUMBER/SIZE OF CONTAINERS	VOC 8010	TPH pump 8015	TPH [illegible]	Total Metal CLP	Diss Metal CLP						REMARKS
①	TB-S9-SP1-06	12/8/94	1445	WATER	X		BUILDING 6 SP1	6x40ml, 2x1-liter Amber, 2x1-liter Poly	P	P	U	P	B						5 DAY TAT
②	TB-S9-SP3-06		1500	WATER	X		BUILDING 6 SP3	6x40ml, 2x1-liter Amber	P	P	U								
③	TB-S9-SP4-06		1520	WATER	X		BUILDING 6 SP4	6x40ml, 2x1-liter Amber, 2x1-liter Poly	P	P	U	P	B						
④	TB-S9-SP1-12		1615	WATER	X		BUILDING 12 SP1	6x40ml, 2x1-liter Amber, 2x1-liter Poly	P	P	U	P	B						Substituted 2.5L poly for 1L poly-[illegible]
⑤	TB-S9-SP3-12		1630	WATER	X		BUILDING 12 SP3	6x40ml, 2x1-liter Amber	P	P	U								
⑥	TB-S9-SP4-12		1645	WATER	X		BUILDING 12 SP4	6x40ml, 2x1-liter Amber, 2x1-liter Poly	P	P	U	P	B						Substituted 2.5L poly for 1L poly-total [illegible]
⑦	RW-S9-NSB-01		1720	WATER	X		NASA SETTLING BASIN EFFLUENT	2x.5L Poly ~~1x1 liter Poly~~				P							
⑧	TB-01		1445	WATER	X		TRIP BLANK	2x40ml	P										

Laboratory, Please distinguish. Call if you are uncertain. The number zero is "0" and the letters "O" are "O" or "o".

	SIGNATURE	NAME (print)	COMPANY/TITLE	DATE	TIME
RELINQUISHED BY:	Steven Broering	Steven Broering	PRC-EMD / ENV. SCD	12/9/94	0920
RECEIVED BY:	Benny S. Carrizosa	BENNY S. CARRIZOSA	Anametrix Courier	12/9/94	0920
RELINQUISHED BY:	Benny S. Carrizosa	BENNY S. CARRIZOSA	ANAMETRIX	12/9/94	0980
RECEIVED BY:	Josephine DeCarli	Josephine DeCarli	Anametrix	12/9/94	0940
RELINQUISHED BY:					
RECEIVED BY:					

PRELIM RESULTS

REMARKS: Please [illegible] any questions → 303-295-1101

REQ. TURN AROUND

INSTRUCTIONS: Enter only one of the following four codes for each analysis required & for each sample listed. The codes should be entered under the columns labeled "ANALYSES REQUIRED".

U = UNPRESERVED AND UNFILTERED SAMPLE P = PRESERVED SAMPLE F = FILTERED SAMPLE B = BOTH PRESERVED & FILTERED SAMPLE

ANAMETRIX, INC.
1961 Concourse Drive, San Jose, CA 95131, (408) 432-8192

TOTAL FUEL HYDROCARBON REPORT

TPHg with BTEX

CTO:0235
SDG:S9106

Workorder # 9412100 Client Project # PR CMF

ANAMETRIX ID #	01	02	03	04	05
CLIENT ID #	S 9106	S 9306	S9406	S9112	S9312
CONCENTRATION UNITS	µg/L	→	→	→	→
BENZENE	<0.5	<0.5	<0.5	990	<0.5
TOLUENE		<0.5		850	
ETHYLBENZENE		2.2		1600	
XYLENES		9.3		1500	
GASOLINE	510 (2)	<50	<50	20000	<50
% SURROGATE RECOVERY	81%	117%	108%	115%	103%
INSTRUMENT #	HP 8	→	→	→	→
DATE ANALYZED	12/19/94	→	→	12/20/94	12/19/94
RLMF *	1	→	→	50	1

Date: 12/22/94 Date: 12/22/94

Analyst: IS Reviewer: [illegible]

METHODS DONE ARE THOSE SPECIFIED BY CRWQCB.
Anametrix, Inc. GC Department Form 2-1

* RLMF - Reporting Limit Multiplication Factor

/1330(/2913)

PRELIM RESULTS

2

ANAMETRIX, INC.
1961 Concourse Drive, San Jose, CA 95131, (408) 432-8192

TOTAL FUEL HYDROCARBON REPORT

TPHg with BTEX

CTD : 0235
SDG : S9106

Workorder # 9412100 Client Project #

ANAMETRIX ID #	06				
CLIENT ID #	S9412				
CONCENTRATION UNITS	µg/L				
BENZENE	<0.5				
TOLUENE	↓				
ETHYLBENZENE					
XYLENES					
GASOLINE	<50				
% SURROGATE RECOVERY	105%				
INSTRUMENT #	HP8				
DATE ANALYZED	12/19/94				
RLMF *	1				

Date: 12/22/94 Date: 12/22/94

Analyst: IS Reviewer: OS

METHODS DONE ARE THOSE SPECIFIED BY CRWQCB.
Anametrix, Inc. QC Department Form 2-1

* RLMF - Reporting Limit Multiplication Factor

/1330(/2913)

PRELIM RES...

PRELIM RESULTS

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S9106

Lab Name: Anametrix, Inc. Contract:

Lab Code: ANAMT Case No.: 0235 SAS No.: SDG No.: S9106

Matrix: (soil/water) WATER Lab Sample ID: 9412100-01

Sample wt/vol: .100 (g/mL) ML Lab File ID: HPD10001

Level: (low/med) LOW Date Received: 12/08/94

% Moisture: not dec._____ Date Analyzed: 12/12/94

GC Column: RTX-502. ID: .53 (mm) Dilution Factor: 50.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	25.	U
74-87-3	Chloromethane	25.	U
75-01-4	Vinyl chloride	25.	U
74-83-9	Bromomethane	25.	U
75-00-3	Chloroethane	25.	U
75-69-4	Trichlorofluoromethane	25.	U
76-13-1	Trichlorotrifluoroethane	25.	U
75-35-4	1,1-Dichloroethene	15.	J
75-09-2	Methylene chloride	25.	U
156-60-5	trans-1,2-Dichloroethene	25.	U
75-34-3	1,1-Dichloroethane	25.	U
156-59-2	cis-1,2-Dichloroethene	290.	
67-66-3	Chloroform	25.	U
71-55-6	1,1,1-Trichloroethane	25.	U
56-23-5	Carbon tetrachloride	25.	U
107-06-2	1,2-Dichloroethane	25.	U
79-01-6	Trichloroethene	1100.	
78-87-5	1,2-Dichloropropane	25.	U
75-27-4	Bromodichloromethane	25.	U
110-75-8	2-Chloroethylvinylether	25.	U
10061-01-5	cis-1,3-Dichloropropene	25.	U
10061-02-6	trans-1,3-Dichloropropene	25.	U
79-00-5	1,1,2-Trichloroethane	25.	U
127-18-4	Tetrachloroethene	93.	
124-48-1	Dibromochloromethane	25.	U
108-90-7	Chlorobenzene	25.	U
75-25-2	Bromoform	25.	U
79-34-5	1,1,2,2-Tetrachloroethane	25.	U
541-73-1	1,3-Dichlorobenzene	25.	U
106-46-7	1,4-Dichlorobenzene	25.	U
95-50-1	1,2-Dichlorobenzene	25.	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S9306

Lab Name: Anametrix, Inc. Contract:

Lab Code: ANAMT Case No.: 0235 SAS No.: SDG No.: S9106

Matrix: (soil/water) WATER Lab Sample ID: 9412100-02

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: HPD10002

Level: (low/med) LOW Date Received: 12/08/94

% Moisture: not dec._____ Date Analyzed: 12/12/94

GC Column: RTX-502. ID: .53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	.5	U
74-87-3	Chloromethane	.5	U
75-01-4	Vinyl chloride	.5	U
74-83-9	Bromomethane	.5	U
75-00-3	Chloroethane	.5	U
75-69-4	Trichlorofluoromethane	.5	U
76-13-1	Trichlorotrifluoroethane	.5	U
75-35-4	1,1-Dichloroethene	.5	U
75-09-2	Methylene chloride	.5	U
156-60-5	trans-1,2-Dichloroethene	.5	U
75-34-3	1,1-Dichloroethane	.5	U
156-59-2	cis-1,2-Dichloroethene	.5	U
67-66-3	Chloroform	.5	U
71-55-6	1,1,1-Trichloroethane	.5	U
56-23-5	Carbon tetrachloride	.5	U
107-06-2	1,2-Dichloroethane	.5	U
79-01-6	Trichloroethene	.5	U
78-87-5	1,2-Dichloropropane	.5	U
75-27-4	Bromodichloromethane	.5	U
110-75-8	2-Chloroethylvinylether	.5	U
10061-01-5	cis-1,3-Dichloropropene	.5	U
10061-02-6	trans-1,3-Dichloropropene	.5	U
79-00-5	1,1,2-Trichloroethane	.5	U
127-18-4	Tetrachloroethene	.5	U
124-48-1	Dibromochloromethane	.5	U
108-90-7	Chlorobenzene	.5	U
75-25-2	Bromoform	.5	U
79-34-5	1,1,2,2-Tetrachloroethane	.5	U
541-73-1	1,3-Dichlorobenzene	.5	U
106-46-7	1,4-Dichlorobenzene	.5	U
95-50-1	1,2-Dichlorobenzene	.5	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S9406

Lab Name: Anametrix, Inc. Contract:

Lab Code: ANAMT Case No.: 0235 SAS No.: SDG No.: S9106

Matrix: (soil/water) WATER Lab Sample ID: 9412100-03

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: HPD10003

Level: (low/med) LOW Date Received: 12/08/94

% Moisture: not dec._____ Date Analyzed: 12/12/94

GC Column: RTX-502. ID: .53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	.5	U
74-87-3	Chloromethane	.5	U
75-01-4	Vinyl chloride	.5	U
74-83-9	Bromomethane	.5	U
75-00-3	Chloroethane	.5	U
75-69-4	Trichlorofluoromethane	.5	U
76-13-1	Trichlorotrifluoroethane	.5	U
75-35-4	1,1-Dichloroethene	.5	U
75-09-2	Methylene chloride	.5	U
156-60-5	trans-1,2-Dichloroethene	.5	U
75-34-3	1,1-Dichloroethane	.5	U
156-59-2	cis-1,2-Dichloroethene	.5	U
67-66-3	Chloroform	.5	U
71-55-6	1,1,1-Trichloroethane	.5	U
56-23-5	Carbon tetrachloride	.5	U
107-06-2	1,2-Dichloroethane	.5	U
79-01-6	Trichloroethene	.5	U
78-87-5	1,2-Dichloropropane	.5	U
75-27-4	Bromodichloromethane	.5	U
110-75-8	2-Chloroethylvinylether	.5	U
10061-01-5	cis-1,3-Dichloropropene	.5	U
10061-02-6	trans-1,3-Dichloropropene	.5	U
79-00-5	1,1,2-Trichloroethane	.5	U
127-18-4	Tetrachloroethene	.5	U
124-48-1	Dibromochloromethane	.5	U
108-90-7	Chlorobenzene	.5	U
75-25-2	Bromoform	.5	U
79-34-5	1,1,2,2-Tetrachloroethane	.5	U
541-73-1	1,3-Dichlorobenzene	.5	U
106-46-7	1,4-Dichlorobenzene	.5	U
95-50-1	1,2-Dichlorobenzene	.5	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S9112

Lab Name: Anametrix, Inc. Contract:

Lab Code: ANAMT Case No.: 0235 SAS No.: SDG No.: S9106

Matrix: (soil/water) WATER Lab Sample ID: 9412100-04

Sample wt/vol: .500 (g/mL) ML Lab File ID: HPD10004

Level: (low/med) LOW Date Received: 12/08/94

% Moisture: not dec._____ Date Analyzed: 12/12/94

GC Column: RTX-502. ID: .53 (mm) Dilution Factor: 10.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	5.	U
74-87-3	Chloromethane	5.	U
75-01-4	Vinyl chloride	55.	
74-83-9	Bromomethane	5.	U
75-00-3	Chloroethane	5.	U
75-69-4	Trichlorofluoromethane	5.	U
76-13-1	Trichlorotrifluoroethane	5.	U
75-35-4	1,1-Dichloroethene	5.	J
75-09-2	Methylene chloride	5.	U
156-60-5	trans-1,2-Dichloroethene	25.	
75-34-3	1,1-Dichloroethane	22.	
156-59-2	cis-1,2-Dichloroethene	220.	
67-66-3	Chloroform	5.	U
71-55-6	1,1,1-Trichloroethane	5.	U
56-23-5	Carbon tetrachloride	5.	U
107-06-2	1,2-Dichloroethane	5.	U
79-01-6	Trichloroethene	5.	U
78-87-5	1,2-Dichloropropane	5.	U
75-27-4	Bromodichloromethane	5.	U
110-75-8	2-Chloroethylvinylether	5.	U
10061-01-5	cis-1,3-Dichloropropene	5.	U
10061-02-6	trans-1,3-Dichloropropene	5.	U
79-00-5	1,1,2-Trichloroethane	5.	U
127-18-4	Tetrachloroethene	5.	U
124-48-1	Dibromochloromethane	5.	U
108-90-7	Chlorobenzene	5.	U
75-25-2	Bromoform	5.	U
79-34-5	1,1,2,2-Tetrachloroethane	5.	U
541-73-1	1,3-Dichlorobenzene	5.	U
106-46-7	1,4-Dichlorobenzene	5.	U
95-50-1	1,2-Dichlorobenzene	5.	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S9312

Lab Name: Anametrix, Inc. Contract:

Lab Code: ANAMT Case No.: 0235 SAS No.: SDG No.: S9106

Matrix: (soil/water) WATER Lab Sample ID: 9412100-05

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: HPD10005

Level: (low/med) LOW Date Received: 12/08/94

% Moisture: not dec._____ Date Analyzed: 12/12/94

GC Column: RTX-502. ID: .53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	.5	U
74-87-3	Chloromethane	.5	U
75-01-4	Vinyl chloride	.5	U
74-83-9	Bromomethane	.5	U
75-00-3	Chloroethane	.5	U
75-69-4	Trichlorofluoromethane	.5	U
76-13-1	Trichlorotrifluoroethane	.5	U
75-35-4	1,1-Dichloroethene	.5	U
75-09-2	Methylene chloride	.5	U
156-60-5	trans-1,2-Dichloroethene	.5	U
75-34-3	1,1-Dichloroethane	.5	U
156-59-2	cis-1,2-Dichloroethene	.5	U
67-66-3	Chloroform	.5	U
71-55-6	1,1,1-Trichloroethane	.5	U
56-23-5	Carbon tetrachloride	.5	U
107-06-2	1,2-Dichloroethane	.5	U
79-01-6	Trichloroethene	.5	U
78-87-5	1,2-Dichloropropane	.5	U
75-27-4	Bromodichloromethane	.5	U
110-75-8	2-Chloroethylvinylether	.5	U
10061-01-5	cis-1,3-Dichloropropene	.5	U
10061-02-6	trans-1,3-Dichloropropene	.5	U
79-00-5	1,1,2-Trichloroethane	.5	U
127-18-4	Tetrachloroethene	.5	U
124-48-1	Dibromochloromethane	.5	U
108-90-7	Chlorobenzene	.5	U
75-25-2	Bromoform	.5	U
79-34-5	1,1,2,2-Tetrachloroethane	.5	U
541-73-1	1,3-Dichlorobenzene	.5	U
106-46-7	1,4-Dichlorobenzene	.5	U
95-50-1	1,2-Dichlorobenzene	.5	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S9412

Lab Name: Anametrix, Inc. Contract:

Lab Code: ANAMT Case No.: 0235 SAS No.: SDG No.: S9106

Matrix: (soil/water) WATER Lab Sample ID: 9412100-06

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: HPD10006

Level: (low/med) LOW Date Received: 12/08/94

% Moisture: not dec._____ Date Analyzed: 12/12/94

GC Column: RTX-502. ID: .53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	.5	U
74-87-3	Chloromethane	.5	U
75-01-4	Vinyl chloride	.5	U
74-83-9	Bromomethane	.5	U
75-00-3	Chloroethane	.5	U
75-69-4	Trichlorofluoromethane	.5	U
76-13-1	Trichlorotrifluoroethane	.5	U
75-35-4	1,1-Dichloroethene	.5	U
75-09-2	Methylene chloride	.5	U
156-60-5	trans-1,2-Dichloroethene	.5	U
75-34-3	1,1-Dichloroethane	.5	U
156-59-2	cis-1,2-Dichloroethene	.5	U
67-66-3	Chloroform	.5	U
71-55-6	1,1,1-Trichloroethane	.5	U
56-23-5	Carbon tetrachloride	.5	U
107-06-2	1,2-Dichloroethane	.5	U
79-01-6	Trichloroethene	.5	U
78-87-5	1,2-Dichloropropane	.5	U
75-27-4	Bromodichloromethane	.5	U
110-75-8	2-Chloroethylvinylether	.5	U
10061-01-5	cis-1,3-Dichloropropene	.5	U
10061-02-6	trans-1,3-Dichloropropene	.5	U
79-00-5	1,1,2-Trichloroethane	.5	U
127-18-4	Tetrachloroethene	.5	U
124-48-1	Dibromochloromethane	.5	U
108-90-7	Chlorobenzene	.5	U
75-25-2	Bromoform	.5	U
79-34-5	1,1,2,2-Tetrachloroethane	.5	U
541-73-1	1,3-Dichlorobenzene	.5	U
106-46-7	1,4-Dichlorobenzene	.5	U
95-50-1	1,2-Dichlorobenzene	.5	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TB01

Lab Name: Anametrix, Inc. Contract:

Lab Code: ANAMT Case No.: 0235 SAS No.: SDG No.: S9106

Matrix: (soil/water) WATER Lab Sample ID: 9412100-08

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: HPD10008

Level: (low/med) LOW Date Received: 12/08/94

% Moisture: not dec._____ Date Analyzed: 12/12/94

GC Column: RTX-502. ID: .53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	.5	U
74-87-3	Chloromethane	.5	U
75-01-4	Vinyl chloride	.5	U
74-83-9	Bromomethane	.5	U
75-00-3	Chloroethane	.5	U
75-69-4	Trichlorofluoromethane	.5	U
76-13-1	Trichlorotrifluoroethane	.5	U
75-35-4	1,1-Dichloroethene	.5	U
75-09-2	Methylene chloride	.5	U
156-60-5	trans-1,2-Dichloroethene	.5	U
75-34-3	1,1-Dichloroethane	.5	U
156-59-2	cis-1,2-Dichloroethene	.5	U
67-66-3	Chloroform	.5	U
71-55-6	1,1,1-Trichloroethane	.5	U
56-23-5	Carbon tetrachloride	.5	U
107-06-2	1,2-Dichloroethane	.5	U
79-01-6	Trichloroethene	.5	U
78-87-5	1,2-Dichloropropane	.5	U
75-27-4	Bromodichloromethane	.5	U
110-75-8	2-Chloroethylvinylether	.5	U
10061-01-5	cis-1,3-Dichloropropene	.5	U
10061-02-6	trans-1,3-Dichloropropene	.5	U
79-00-5	1,1,2-Trichloroethane	.5	U
127-18-4	Tetrachloroethene	.5	U
124-48-1	Dibromochloromethane	.5	U
108-90-7	Chlorobenzene	.5	U
75-25-2	Bromoform	.5	U
79-34-5	1,1,2,2-Tetrachloroethane	.5	U
541-73-1	1,3-Dichlorobenzene	.5	U
106-46-7	1,4-Dichlorobenzene	.5	U
95-50-1	1,2-Dichlorobenzene	.5	U

ORGANIC ANALYSIS DATA SHEET -- EPA METHOD TPHd
ANAMETRIX, INC. (408)432-8192

Project ID : 0235
Sample ID : S9106
Matrix : WATER
Date Sampled :12/ 8/94
Date Extracted :12/12/94
Amount Extracted : 1000.0 mL
Date Analyzed :12/13/94
Instrument ID : HP19

Anametrix ID : 9412100-01
Lab File ID : FPD10001
% Moisture : 100.

Dilution Factor : 1.0
Conc. Units : ug/L

CAS No.	COMPOUND NAME	REPORTING LIMIT	AMOUNT DETECTED	Q
1111-11-1	DIESEL	100.	ND	U
2222-22-2	KEROSENE	100.	ND	U
4444-44-4	MOTOR OIL	100.	ND	U
5555-55-5	JP-5	100.	ND	U

GC/TPH - PAGE

ORGANIC ANALYSIS DATA SHEET -- EPA METHOD TPHd
ANAMETRIX, INC. (408)432-8192

Project ID : 0235
Sample ID : S9112
Matrix : WATER
Date Sampled :12/ 8/94
Date Extracted :12/12/94
Amount Extracted : 1000.0 mL
Date Analyzed :12/13/94
Instrument ID : HP19

Anametrix ID : 9412100-04
Lab File ID : FPD10004
% Moisture : 100.

Dilution Factor : 1.0
Conc. Units : ug/L

CAS No.	COMPOUND NAME	REPORTING LIMIT	AMOUNT DETECTED	Q
1111-11-1	DIESEL	100.	ND	U
2222-22-2	KEROSENE	100.	ND	U
4444-44-4	MOTOR OIL	100.	ND	U
5555-55-5	JP-5	100.	2500.	

GC/TPH - PAGE

ORGANIC ANALYSIS DATA SHEET -- EPA METHOD TPHd
ANAMETRIX, INC. (408)432-8192

Project ID : 0235
Sample ID : S9306
Matrix : WATER
Date Sampled :12/ 8/94
Date Extracted :12/12/94
Amount Extracted : 1000.0 mL
Date Analyzed :12/13/94
Instrument ID : HP19

Anametrix ID : 9412100-02
Lab File ID : FPD10002
% Moisture : 100.

Dilution Factor : 1.0
Conc. Units : ug/L

CAS No.	COMPOUND NAME	REPORTING LIMIT	AMOUNT DETECTED	Q
1111-11-1	DIESEL	100.	ND	U
2222-22-2	KEROSENE	100.	ND	U
4444-44-4	MOTOR OIL	100.	ND	U
5555-55-5	JP-5	100.	ND	U

GC/TPH - PAGE

ORGANIC ANALYSIS DATA SHEET -- EPA METHOD TPHd
ANAMETRIX, INC. (408)432-8192

Project ID : 0235
Sample ID : S9312
Matrix : WATER
Date Sampled :12/ 8/94
Date Extracted :12/12/94
Amount Extracted : 1000.0 mL
Date Analyzed :12/14/94
Instrument ID : HP19

Anametrix ID : 9412100-05
Lab File ID : FPD10005
% Moisture : 100.

Dilution Factor : 1.0
Conc. Units : ug/L

CAS No.	COMPOUND NAME	REPORTING LIMIT	AMOUNT DETECTED	Q
1111-11-1	DIESEL	100.	ND	U
2222-22-2	KEROSENE	100.	ND	U
4444-44-4	MOTOR OIL	100.	60.	J
5555-55-5	JP-5	100.	ND	U

GC/TPH - PAGE

ORGANIC ANALYSIS DATA SHEET -- EPA METHOD TPHd
ANAMETRIX, INC. (408)432-8192

Project ID	: 0235	Anametrix ID	: 9412100-03
Sample ID	: S9406	Lab File ID	: FPD10003
Matrix	: WATER	% Moisture	: 100.
Date Sampled	:12/ 8/94		
Date Extracted	:12/12/94		
Amount Extracted	: 1000.0 mL		
Date Analyzed	:12/13/94	Dilution Factor	: 1.0
Instrument ID	: HP19	Conc. Units	: ug/L

CAS No.	COMPOUND NAME	REPORTING LIMIT	AMOUNT DETECTED	Q
1111-11-1	DIESEL	100.	ND	U
2222-22-2	KEROSENE	100.	ND	U
4444-44-4	MOTOR OIL	100.	ND	U
5555-55-5	JP-5	100.	ND	U

GC/TPH - PAGE

ORGANIC ANALYSIS DATA SHEET -- EPA METHOD TPHd
ANAMETRIX, INC. (408)432-8192

Project ID	: 0235	Anametrix ID	: 9412100-06
Sample ID	: S9412	Lab File ID	: FPD10006
Matrix	: WATER	% Moisture	: 100.
Date Sampled	:12/ 8/94		
Date Extracted	:12/12/94		
Amount Extracted	: 1000.0 mL		
Date Analyzed	:12/14/94	Dilution Factor	: 1.0
Instrument ID	: HP19	Conc. Units	: ug/L

CAS No.	COMPOUND NAME	REPORTING LIMIT	AMOUNT DETECTED	Q
1111-11-1	DIESEL	100.	ND	U
2222-22-2	KEROSENE	100.	ND	U
4444-44-4	MOTOR OIL	100.	ND	U
5555-55-5	JP-5	100.	ND	U

GC/TPH - PAGE

Inchcape Testing Services
Anametrix Laboratories

FAX TRANSMITTAL COVER SHEET

TO: **DATE:** 12/16/94

NAME: Jean Barranco

COMPANY: PRC

FAX #: (303) 295-2818

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NAME: Tracey Pham / Claudia Serna

ITS - ANAMETRIX LABORATORIES
FAX : (408) 385-7810
PHONE : (408) 432-8192

If all pages are not received, please notify the sender at (408) 432-8192.

COMMENTS: CTO : 0235 SDG : S9106
PRC - 5 days TAT
Metals : -01, -03, -04, -06 (Total and Dissolved), and -07 (Total only) -

ENVIROFORMS/INORGANIC CLP

1

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

S9106D

Lab Name: ANAMETRIX INC Contract: 000000

Lab Code: ANAMET Case No.: 0235 SAS No.: 000000 SDG No.: S9106

Matrix (soil/water): WATER Lab Sample ID: 12100-01D

Level (low/med): LOW Date Received: 12/08/94

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	32.5	B		P
7440-36-0	Antimony	1.1	U		P
7440-38-2	Arsenic	1.7	U		P
7440-39-3	Barium	28.6	B		P
7440-41-7	Beryllium	0.10	U		P
7440-43-9	Cadmium	0.20	U		P
7440-70-2	Calcium	179000			P
7440-47-3	Chromium	0.80	U		P
7440-48-4	Cobalt	0.70	U		P
7440-50-8	Copper	2.0	B		P
7439-89-6	Iron	12.0	B		P
7439-92-1	Lead	0.74	B		P
7439-95-4	Magnesium	62700			P
7439-96-5	Manganese	78.5			P
7439-97-6	Mercury	0.10	U		CV
7439-98-7	Molybdenum	1.8	B		P
7440-02-0	Nickel	2.3	B		P
7440-09-7	Potassium	3760	B		P
7782-49-2	Selenium	6.6			P
7440-22-4	Silver	0.55	B		P
7440-23-5	Sodium	37800			P
7440-28-0	Thallium	2.2		*	P
7440-62-2	Vanadium	1.7	B		P
7440-66-6	Zinc	68.4		E	P

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

ENVIROFORMS/INORGANIC CLP

1

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

S9106T

Lab Name: ANAMETRIX INC Contract: 000000

Lab Code: ANAMET Case No.: 0235 SAS No.: 000000 SDG No.: S9106

Matrix (soil/water): WATER Lab Sample ID: 12100-01T

Level (low/med): LOW Date Received: 12/08/94

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	27.3	B		P
7440-36-0	Antimony	1.1	U		P
7440-38-2	Arsenic	1.7	U		P
7440-39-3	Barium	22.0	B		P
7440-41-7	Beryllium	0.10	U		P
7440-43-9	Cadmium	0.20	U		P
7440-70-2	Calcium	179000			P
7440-47-3	Chromium	0.80	U		P
7440-48-4	Cobalt	0.70	U		P
7440-50-8	Copper	2.9	B		P
7439-89-6	Iron	10.1	U		P
7439-92-1	Lead	1.0	B		P
7439-95-4	Magnesium	62900			P
7439-96-5	Manganese	27.1			P
7439-97-6	Mercury	0.10	U		CV
7439-98-7	Molybdenum	1.3	B		P
7440-02-0	Nickel	4.0	B		P
7440-09-7	Potassium	1700	B		P
7782-49-2	Selenium	5.5			P
7440-22-4	Silver	0.40	U		P
7440-23-5	Sodium	36800			P
7440-28-0	Thallium	2.0	U	*	P
7440-62-2	Vanadium	2.3	B		P
7440-66-6	Zinc	75.6		E	P

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

ENVIROFORMS/INORGANIC CLP

1

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

S9112D

Lab Name: ANAMETRIX INC Contract: 000000

Lab Code: ANAMET Case No.: 0235 SAS No.: 000000 SDG No.: S9106

Matrix (soil/water): WATER Lab Sample ID: 12100-04D

Level (low/med): LOW Date Received: 12/08/94

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	34.6	B		P
7440-36-0	Antimony	1.6	B		P
7440-38-2	Arsenic	8.6	B		P
7440-39-3	Barium	353			P
7440-41-7	Beryllium	0.10	U		P
7440-43-9	Cadmium	0.20	U		P
7440-70-2	Calcium	157000			P
7440-47-3	Chromium	11.6			P
7440-48-4	Cobalt	0.70	U		P
7440-50-8	Copper	0.30	U		P
7439-89-6	Iron	2460			P
7439-92-1	Lead	0.79	B		P
7439-95-4	Magnesium	65800			P
7439-96-5	Manganese	524			P
7439-97-6	Mercury	0.10	U		CV
7439-98-7	Molybdenum	0.70	U		P
7440-02-0	Nickel	7.8	B		P
7440-09-7	Potassium	2560	B		P
7782-49-2	Selenium	2.3	U		P
7440-22-4	Silver	0.40	U		P
7440-23-5	Sodium	57600			P
7440-28-0	Thallium	2.0	U	*	P
7440-62-2	Vanadium	0.90	U		P
7440-66-6	Zinc	46.6		E	P

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

ENVIROFORMS/INORGANIC CLP

1

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

S9112T

Lab Name: ANAMETRIX INC Contract: 000000

Lab Code: ANAMET Case No.: 0235 SAS No.: 000000 SDG No.: S9106

Matrix (soil/water): WATER Lab Sample ID: 12100-04T

Level (low/med): LOW Date Received: 12/08/94

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	40.4	B		P
7440-36-0	Antimony	1.8	B		P
7440-38-2	Arsenic	7.3	B		P
7440-39-3	Barium	358			P
7440-41-7	Beryllium	0.10	U		P
7440-43-9	Cadmium	0.20	U		P
7440-70-2	Calcium	158000			P
7440-47-3	Chromium	104			P
7440-48-4	Cobalt	0.70	U		P
7440-50-8	Copper	0.56	B		P
7439-89-6	Iron	2720			P
7439-92-1	Lead	0.60	U		P
7439-95-4	Magnesium	66700			P
7439-96-5	Manganese	531			P
7439-97-6	Mercury	0.10	U		CV
7439-98-7	Molybdenum	2.0	B		P
7440-02-0	Nickel	39.0	B		P
7440-09-7	Potassium	2670	B		P
7782-49-2	Selenium	2.3	U		P
7440-22-4	Silver	0.40	U		P
7440-23-5	Sodium	51700			P
7440-28-0	Thallium	2.0	U	*	P
7440-62-2	Vanadium	0.90	U		P
7440-66-6	Zinc	75.9		E	P

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

6

ENVIROFORMS/INORGANIC CLP

1

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

S9406D

Lab Name: ANAMETRIX INC Contract: 000000

Lab Code: ANAMET Case No.: 0235 SAS No.: 000000 SDG No.: S9106

Matrix (soil/water): WATER Lab Sample ID: 12100-03D

Level (low/med): LOW Date Received: 12/08/94

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	38.4	B		P
7440-36-0	Antimony	1.1	U		P
7440-38-2	Arsenic	1.7	U		P
7440-39-3	Barium	22.9	B		P
7440-41-7	Beryllium	0.10	U		P
7440-43-9	Cadmium	0.20	U		P
7440-70-2	Calcium	180000			P
7440-47-3	Chromium	5.6	B		P
7440-48-4	Cobalt	1.1	B		P
7440-50-8	Copper	0.58	B		P
7439-89-6	Iron	181			P
7439-92-1	Lead	0.60	U		P
7439-95-4	Magnesium	62800			P
7439-96-5	Manganese	22.5			P
7439-97-6	Mercury	0.10	U		CV
7439-98-7	Molybdenum	1.7	B		P
7440-02-0	Nickel	11.9	B		P
7440-09-7	Potassium	1730	B		P
7782-49-2	Selenium	7.7			P
7440-22-4	Silver	0.40	U		P
7440-23-5	Sodium	36900			P
7440-28-0	Thallium	2.0	U	*	P
7440-62-2	Vanadium	0.90	U		P
7440-66-6	Zinc	362		E	P

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

ENVIROFORMS/INORGANIC CLP

1

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

S9406T

Lab Name: ANAMETRIX INC Contract: 000000

Lab Code: ANAMET Case No.: 0235 SAS No.: 000000 SDG No.: S9106

Matrix (soil/water): WATER Lab Sample ID: 12100-03T

Level (low/med): LOW Date Received: 12/08/94

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	38.2	B		P
7440-36-0	Antimony	1.1	U		P
7440-38-2	Arsenic	1.7	U		P
7440-39-3	Barium	20.9	B		P
7440-41-7	Beryllium	0.10	U		P
7440-43-9	Cadmium	0.20	U		P
7440-70-2	Calcium	181000			P
7440-47-3	Chromium	0.80	U		P
7440-48-4	Cobalt	0.88	B		P
7440-50-8	Copper	1.1	B		P
7439-89-6	Iron	180			P
7439-92-1	Lead	0.60	U		P
7439-95-4	Magnesium	63000			P
7439-96-5	Manganese	20.0			P
7439-97-6	Mercury	0.10	U		CV
7439-98-7	Molybdenum	2.2	B		P
7440-02-0	Nickel	8.8	B		P
7440-09-7	Potassium	1680	B		P
7782-49-2	Selenium	5.5			P
7440-22-4	Silver	0.40	U		P
7440-23-5	Sodium	37000			P
7440-28-0	Thallium	2.0	U	*	P
7440-62-2	Vanadium	0.90	U		P
7440-66-6	Zinc	308		E	P

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

...ROFORMS/INORGANIC CLP

SAMPLE NO.

1

INORGANIC ANALYSIS DATA SHEET

S9412D

Lab Name: ANAMETRIX INC Contract: 000000

Lab Code: ANAMET Case No.: 0235 SAS No.: 000000 SDG No.: S9106

Matrix (soil/water): WATER Lab Sample ID: 12100-06D

Level (low/med): LOW Date Received: 12/08/94

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	38.7	B		P
7440-36-0	Antimony	1.1	U		P
7440-38-2	Arsenic	2.8	B		P
7440-39-3	Barium	330			P
7440-41-7	Beryllium	0.10	U		P
7440-43-9	Cadmium	0.20	U		P
7440-70-2	Calcium	157000			P
7440-47-3	Chromium	0.80	U		P
7440-48-4	Cobalt	1.3	B		P
7440-50-8	Copper	0.30	U		P
7439-89-6	Iron	95.8	B		P
7439-92-1	Lead	0.60	U		P
7439-95-4	Magnesium	68600			P
7439-96-5	Manganese	448			P
7439-97-6	Mercury	0.10	U		CV
7439-98-7	Molybdenum	1.0	B		P
7440-02-0	Nickel	8.5	B		P
7440-09-7	Potassium	2730	B		P
7782-49-2	Selenium	2.3	U		P
7440-22-4	Silver	0.40	U		P
7440-23-5	Sodium	59100			P
7440-28-0	Thallium	2.0	U	*	P
7440-62-2	Vanadium	1.0	B		P
7440-66-6	Zinc	133		E	P

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

ENVIROFORMS/INORGANIC CLP

1

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

S9412T

Lab Name: ANAMETRIX INC Contract: 000000

Lab Code: ANAMET Case No.: 0235 SAS No.: 000000 SDG No.: S9106

Matrix (soil/water): WATER Lab Sample ID: 12100-06T

Level (low/med): LOW Date Received: 12/08/94

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	42.1	B		P
7440-36-0	Antimony	1.1	U		P
7440-38-2	Arsenic	3.5	B		P
7440-39-3	Barium	323			P
7440-41-7	Beryllium	0.10	U		P
7440-43-9	Cadmium	0.20	U		P
7440-70-2	Calcium	154000			P
7440-47-3	Chromium	0.80	U		P
7440-48-4	Cobalt	1.1	B		P
7440-50-8	Copper	0.30	U		P
7439-89-6	Iron	106			P
7439-92-1	Lead	0.84	B		P
7439-95-4	Magnesium	66900			P
7439-96-5	Manganese	440			P
7439-97-6	Mercury	0.10	U		CV
7439-98-7	Molybdenum	0.80	B		P
7440-02-0	Nickel	8.3	B		P
7440-09-7	Potassium	2660	B		P
7782-49-2	Selenium	2.3	U		P
7440-22-4	Silver	0.40	U		P
7440-23-5	Sodium	54400			P
7440-28-0	Thallium	2.0	U	*	P
7440-62-2	Vanadium	0.90	B		P
7440-66-6	Zinc	146		E	P

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

ENVIROFORMS/INORGANIC CLP

1

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

S9NSBT

Lab Name: ANAMETRIX INC Contract: 000000

Lab Code: ANAMET Case No.: 0235 SAS No.: 000000 SDG No.: S9106

Matrix (soil/water): WATER Lab Sample ID: 12100-07T

Level (low/med): LOW Date Received: 12/08/94

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	139			P
7440-36-0	Antimony	1.1	U		P
7440-38-2	Arsenic	1.7	U		P
7440-39-3	Barium	47.5	B		P
7440-41-7	Beryllium	0.10	U		P
7440-43-9	Cadmium	0.21	B		P
7440-70-2	Calcium	113000			P
7440-47-3	Chromium	1.3	B		P
7440-48-4	Cobalt	0.70	U		P
7440-50-8	Copper	9.2	B		P
7439-89-6	Iron	180			P
7439-92-1	Lead	5.0			P
7439-95-4	Magnesium	44600			P
7439-96-5	Manganese	36.8			P
7439-97-6	Mercury	0.10	U		CV
7439-98-7	Molybdenum	7.7			P
7440-02-0	Nickel	2.5	B		P
7440-09-7	Potassium	4070	B		P
7782-49-2	Selenium	5.9			P
7440-22-4	Silver	0.40	U		P
7440-23-5	Sodium	65900			P
7440-28-0	Thallium	2.0	U	*	P
7440-62-2	Vanadium	2.9	B		P
7440-66-6	Zinc	56.5		E	P

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

FORM I - IN (ILM02.1)

ToxScan, Inc. 42 Hangar Way • Watsonville, CA 95076-2404 • (408) 724-4522 • FAX (408) 724-3188

PRC Environmental Management, Inc.
1099 18th Street, Suite 1960
Denver, CO 80202

15 December, 1994

ATTN: Jean Barranco

Static acute bioassays were performed on two water samples received from PRC using the 3-spined Stickleback (*Gasterosteus aculeatus*). Samples were collected by PRC personnel and delivered to ToxScan's Watsonville laboratory where the sample set was assigned ToxScan number T-11518. The water was tested using 100%, and 0% (control) concentrations of the sample as delivered. The testing method used was: *Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms.* EPA/600/4-90/027, 1991.

All fish were held in the laboratory for at least 2 days prior to test initiation, and no mortality was observed in the species before testing was started.

BIOASSAY CONDITIONS

Date Sampled:	8 December, 1994
Date Started:	9 December, 1994
Lighting:	10-20 microE/M^2/s

	Sticklebacks
No. Fish/Tank:	10
Vol. of Test Solution:	9 L
Test Temperature:	20 ± 2°C

SUMMARY TABLE Percent Survival after 96 hours.

Sample ID	Sticklebacks (*G. aculeatus*)
TS-S9-SP4-06	100
TS-S9-SP4-12	100
Control	100

If you have any questions regarding this report or the methods used for this test please give us a call. Thank you for your patronage.

Raymond P. Markel, Ph.D.
Director, Bioassay Division

96 h Acute Toxicity Test Data Sheet

Lab #	T-11518	Start Date	9 December 1994
Client	PRC Environmental Management, Inc.	End Date	13 December 1994
ID	TS-S9-SP4-06 & TS-S9-SP4-12	Species	G. aculeatus

Treat-ment (ID)	Number Alive at Observation Time (h) 0	24	48	72	96	Environmental Monitoring	0	24	48	72	96
Control	10	10	10	10	10	pH	8.4	8.0	7.9	8.2	8.3
						DO	9.5	6.8	6.7	8.5	8.5
						Temp	20.1	19.0	19.1	19.3	19.1
Control	10	10	10	10	10	pH	8.4	7.9	7.9	8.2	8.2
						DO	9.4	6.7	6.6	8.4	8.4
						Temp	20.0	19.1	19.2	19.0	19.3
-06	10	10	10	10	10	pH	7.7	8.1	8.2	8.4	8.4
						DO	8.6	6.6	6.5	8.5	8.7
						Temp	19.8	19.1	19.3	19.0	19.3
-06	10	10	10	10	10	pH	7.7	8.1	8.2	8.4	8.4
						DO	8.6	6.6	6.5	8.5	8.6
						Temp	19.8	19.2	19.3	19.6	19.1
-12	10	10	10	10	10	pH	7.5	8.0	7.9	8.1	8.2
						DO	8.6	6.4	6.4	8.0	8.1
						Temp	19.6	19.2	19.3	20.2	19.0
-12	10	10	10	10	10	pH	7.5	8.0	7.9	8.2	8.3
						DO	8.7	6.3	5.7*	8.1	8.3
						Temp	20.2	19.2	19.2	20.3	19.2

Hardness

Control-initial	230	Sample -06-initial	690	Sample -12-initial	605
Control-final	258	Sample -06-final	620	Sample -12-final	450

Alkalinity

Control-initial	135	Sample -06-initial	320	Sample -12-initial	635
Control-final	130	Sample -06-final	250	Sample -12-final	415

Conductivity

Control-initial	1110	Sample -06-initial	1190	Sample -12-initial	1130
Control-final	1300	Sample -06-final	1150	Sample -12-final	900

* Aeration started on all test containers.

FISH WEIGHT AND LENGTH ANALYSIS SHEET

TEST SPECIFICATIONS:

Date Started:	9 December 1994
Date Completed:	13 December 1994
Test Species:	3-spined Stickleback (*Gasterosteus aculeatus*)
# Organisms/Tank:	10
Volume/Tank:	9 Liters
Test Material Concentrations:	0% (control) and 100%
Replicates/Concentration:	2

Fish Weights and Lengths: Lot Number Gas120794

Fish No.	Weight (g)	Length (mm)
1	0.3671	32
2	0.4615	35
3	0.4096	33
4	0.5137	36
5	0.4794	37
6	0.4896	34
7	0.3983	34
8	0.5026	34
9	0.4026	33
10	0.3906	33
Total	4.415	341
Mean	0.4415	34.1