N00296.002262
MOFFETT FIELD
SSIC NO. 5090.3

5090
Ser 1843.2/5076
June 14,1995

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

SUBJ: MOFFETT FEDERAL AIRFIELD (MFA) SITE 9 SOURCE CONTROL MEASURES (SCM) SELF-MONITORING REPORT FOR APRIL 10, 1995 TO May 7, 1995

Dear Ms. Gladstone:

The U.S. Navy is submitting this self-monitoring report for the three Site 9 SCMs at MFA. This self-monitoring report covers operations from April 10, 1995, to May 7, 1995. 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 Buildings 6 and 12 treatment systems ran continuously during this reporting period. The Building 45 system was off line during this period and will not resume operation until a chemical addition system can be installed to minimize a precipitation problem. Operation of the Building 45 treatment system is expected to resume before the end of June 1995.

Discharge limits for organic constituents were met by both the Buildings 6 and 12 treatment systems for this reporting period. The Building 12 system met discharge limits for inorganic constituents. However, the Building 6 system samples exceeded the discharge limit for selenium and zinc in both the dissolved and total metals analyses. The selenium levels in the effluent were less than those in the influent levels and only slightly exceeded the discharge limit. The effluent zinc levels were 263 micrograms per liter (μg/L) in the dissolved sample and 349 μg/L in the total sample. These zinc levels were higher than influent zinc levels and exceeded the zinc discharge limit, which is 110 μg/L. Toxicity tests showed the treatment systems effluents to be nontoxic to the three spined stickleback. Also, there is no apparent relationship between inorganic constituent concentrations in the National Aeronautics and Space Administration (NASA) settling basin and concentrations in treatment system effluents. Details of all treatment system discharge limit exceedences and all sample data are attached.

5090
Ser 1843.2/5076

SUBJ: MOFFETT FEDERAL AIRFIELD (MFA) SITE 9 SOURCE CONTROL MEASURES (SCM) SELF-MONITORING REPORT FOR APRIL 10, 1995 TO May 7, 1995

The two inorganic constituents at Building 6 that exceeded discharge limits during this operating period are naturally occurring in groundwater. These constituents are at levels consistent with those found in background data, basewide groundwater data, and receiving water data. The inorganic constituents will continue to be monitored to evaluate potential effects on receiving waters.

I certify that the information contained in this document and all attachments is, to the best of my knowledge, accurate and complete. Please call Su Don Tu of my staff at (415) 244-2524 or Mark Kadnuck at (303) 295-1101 if you have any questions or comments.

Sincerely,

STEPHEN CHAO
BRAC Environmental Coordinator

Encl:
(1) Self-Monitoring Report for April 10, 1995 to May 7, 1995

Blind copy to:
PRC Environmental Management Inc. (Attn: Mark Kadnuck)
18, 184, 1843, 1843.2, 1843.3
Information Repository (2 Copies)
Chron, green
File: Moffett/SM050795

N00296.002262
MOFFETT FIELD
SSIC NO. 5090.3

MOFFETT FEDERAL AIRFIELD SITE 9 SOURCE CONTROL MEASURES SELF-MONITORING REPORT FOR APRIL 10, 1995 TO MAY 7, 1995

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: April 10, 1995 - May 7, 1995

System Data*	Bldg 45 System	Bldg 12 System	Bldg 6 System
Total Flow for Period (gal)	NA	58000	51200
Influent pH	NA	7.13	7.72
Effluent pH	NA	7.49	7.6
Influent Temperature (C)	NA	19	20.3
Effluent Temperature (C)	NA	17.5	18.3

* Analytical data is attached

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

Treatment System Maintenance for Period
Building 45: System not operating.
Building 12: Changed out bag filter on 4/26/95.
Building 6: None.

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

Reporting Period: April 10, 1995 - May 7, 1995

TREATMENT SYSTEM
DISCHARGE LIMIT EXCEEDENCE SUMMARY

Sample ID	Analyte	Concentration (ug/L)	Discharge Limit (ug/L)
TS-S9-SP4-06	Se (diss.)	6.7	5
TS-S9-SP4-06	Zn (diss.)	263	110
TS-S9-SP4-06	Se (tot.)	6.3	5
TS-S9-SP4-06	Zn (tot.)	349	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
MARK A. KADNUCK
29842
6-23-95
PROFESSIONAL ENGINEER

MAY-12-1995 12:23

4-10-95 - 5-7-95

Inchcape Testing Services
Anametrix Laboratories

1861 Concourse Drive
Suite E
San Jose, CA 95131
Tel: 408-432-8192
Fax: 408-433-8198

FACSIMILE TRANSMITTAL COVER SHEET

TO: **DATE:** 5-12-95

Name: Jean Barranco

Company: PRC -

Fax #: 303-295-2818

FROM:

Name: Richard Jacobs

Total Number of Pages (INCLUDING COVER): 20
If all pages are not received, please notify sender at (408) 432-8192.

DID YOU KNOW THAT:

INCHCAPE TESTING SERVICES ENVIRONMENTAL LABORATORIES is a group of six laboratories in the United States and one in the United Kingdom.

COMMENTS: CTO: 235 SDG: MFOOF
PRC - 5DAY TAT
8010 - 01, 02, 03, 04, 05, 06, 08
~~TPHC~~ -
9505073

CONFIDENTIALITY NOTICE: The information contained in this facsimile transmittal is privileged and confidential. It is intended only for the use of the addressee. If the reader of this message is not the intended recipient, or person responsible to deliver it to the intended recipient, you are hereby notified that any dissemination, distribution, or copying of this facsimile transmittal is strictly prohibited. If you have received this transmittal in error, please notify us immediately by telephone and please return the original transmittal to Inchcape Testing Services - Anametrix Laboratories via U.S. Postal Service. Thank you.

ITS Anametrix Laboratories, CA (408)432-8192 ITS Aquatec Laboratories, VT (802)655-1203
ITS NDRC Laboratories, Dallas, TX (214)238-5591 ITS Aquatec Laboratories, MA (508)990-3400
ITS NDRC Laboratories, Houston, TX (713) 661-8150 ITS West-Paine Laboratories, LA (504)769-4900
ITS Environmental Laboratories, St. Helens, UK (44) 0744-611553

CVR-Mar94

REPORT SUMMARY
ANAMETRIX, INC. (408)432-8192

MS. JEAN BARRANCO
PRC ENVIRONMENTAL MANAGEMENT
1099 18TH STREET SUITE 1960
DENVER, CO 80202

Workorder # : 9505073
Date Received : 05/05/95
Project ID : 0235
Purchase Order: MF004
Department : GC
Sub-Department: VOA

SAMPLE INFORMATION:

ANAMETRIX SAMPLE ID	CLIENT SAMPLE ID	MATRIX	DATE SAMPLED	METHOD
9505073- 1	SP106	WATER	05/05/95	8010
9505073- 2	SP306	WATER	05/05/95	8010
9505073- 3	SP406	WATER	05/05/95	8010
9505073- 4	SP112	WATER	05/05/95	8010
9505073- 5	SP312	WATER	05/05/95	8010
9505073- 6	SP412	WATER	05/05/95	8010
9505073- 8	TB-01	WATER	05/05/95	8010

2

REPORT SUMMARY
ANAMETRIX, INC. (408)432-8192

MS. JEAN BARRANCO
PRC ENVIRONMENTAL MANAGEMENT
1099 18TH STREET SUITE 1960
DENVER, CO 80202

Workorder # : 9505073
Date Received : 05/05/95
Project ID : 0235
Purchase Order: MF004
Department : GC
Sub-Department: VOA

QA/QC SUMMARY :

- All holding times have been met for the analyses reported in this section.

M. Hosseini 5/12/95
Department Supervisor Date

Kamel C. Kamel 5/12/95
Chemist Date

2A
WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: Anametrix, Inc. Contract:

Lab Code: 003 Case No.: 0235 SAS No.: SDG No.:

	EPA SAMPLE NO.	SMC1 (TOL)#	SMC2 (BFB)#	SMC3 (DCE)#	OTHER	TOT OUT
1	MF004P1	79	90	81		0
2	SP306	78	90	79		0
3	SP306MS	83	97	86		0
4	SP306MSD	81	98	87		0
5	SP406	78	91	81		0
6	SP312	77	90	82		0
7	SP412	77	89	79		0
8	TB-01	77	89	82		0
9	SP106	81	93	82		0
10	SP112	91	93	87		0
11	MF004P2	81	98	97		0
12	MF004BS	92	105	106		0
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						

		QC LIMITS
SMC1 (TOL)	= Bromochloromethane	(56- 99)
SMC2 (BFB)	= 1-Chloro-2-fluorobenze	(73-110)
SMC3 (DCE)	= 2-Bromochlorobenzene	(65-108)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

EPA METHOD 8010
INCHCAPE TESTING SERVICES - ANAMETRIX
(408) 432-8192

LABORATORY CONTROL SAMPLE

Sample ID: LAB CONTROL SAMPLE
Batch: 5073
Matrix: WATER
Date Analyzed: 5/11/95

Laboratory ID: MY1102I1
Instrument ID: HP14
Concentration Units: ug/L
Analyst: KE
Supervisor: DL

COMPOUND NAME	SPIKE AMOUNT	LCS REC	%REC LCS	%RECOVERY LIMITS
Trichlorotrifluoroethane	10	11.6	116%	65-116
1,1-Dichloroethene	10	10.7	107%	64-125
trans-1,2-Dichloroethene	10	11.1	111%	77-113
1,1-Dichloroethane	10	12.2	122%	85-129
cis-1,2-Dichloroethene	10	11.8	118%	78-130
1,1,1-Trichloroethane	10	11.1	111%	83-125
Trichloroethene	10	10.9	109%	76-124
Tetrachloroethene	10	10.7	107%	80-118
Chlorobenzene	10	10.5	105%	81-130
1,3-Dichlorobenzene	10	10.7	107%	82-115
1,4-Dichlorobenzene	10	10.9	109%	85-122
1,2-Dichlorobenzene	10	10.6	106%	86-122

Quality control limits are based on data generated by ITS-Anametrix Laboratories.

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

MF004P1

Name: Anametrix, Inc. Contract:

Code: 003 Case No.: 0235 SAS No.: SDG No.: MF004

File ID: BY1003I1 Lab Sample ID: BY1003I1

e Analyzed: 05/10/95 Time Analyzed: 20:21

Column: RTX-502. ID: .53 (mm) Heated Purge: (Y/N) N

trument ID: HP24

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
1	SP306	9505073-02	HPY07302	21:08
2	SP306MS	9505073-02	HMY07302	21:54
3	SP306MSD	9505073-02	HDY07302	22:41
4	SP406	9505073-03	HPY07303	23:27
5	SP312	9505073-05	HPY07305	00:14
6	SP412	9505073-06	HPY07306	01:01
7	TB-01	9505073-08	HPY07308	01:47
8	SP106	9505073-01	HPY07301	02:34
9	SP112	9505073-04	HPY07304	03:21
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

COMMENTS:

FORM IV VOA 3/90

7

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

MF004P2

Name: Anametrix, Inc. Contract:

Code: 003 Case No.: 0235 SAS No.: SDG No.: MF004

File ID: BY1102I1 Lab Sample ID: BY1102I1

e Analyzed: 05/11/95 Time Analyzed: 10:16

Column: RTX-502. ID: .53 (mm) Heated Purge: (Y/N) N

trument ID: HP24

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
1	MF004BZS	MY1102I1	MY1102I1	15:12
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

5-12-95

:OMMENTS:

FORM IV VOA 3/90

8

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SP106

b Name: Anametrix, Inc. Contract:

b Code: 003 Case No.: 0235 SAS No.: SDG No.: MF004

trix: (soil/water) WATER Lab Sample ID: 9505073-01

mple wt/vol: .100 (g/mL) ML Lab File ID: HPY07301

vel: (low/med) Date Received: 05/05/95

Moisture: not dec._____ Date Analyzed: 05/11/95

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

oil 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	13.	J
75-35-4	1,1-Dichloroethene	19.	J
75-09-2	Methylene chloride	22.	J
156-60-5	trans-1,2-Dichloroethene	25.	U
75-34-3	1,1-Dichloroethane	15.	J
156-59-2	cis-1,2-Dichloroethene	370.	
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	1200.	
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	170.	
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.

SP306

Lab Name: Anametrix, Inc. Contract:

Lab Code: 003 Case No.: 0235 SAS No.: SDG No.: MF004

Matrix: (soil/water) WATER Lab Sample ID: 9505073-02

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: HPY07302

Level: (low/med) Date Received: 05/05/95

% Moisture: not dec._____ Date Analyzed: 05/10/95

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.

SP406

Lab Name: Anametrix, Inc. Contract:

Lab Code: 003 Case No.: 0235 SAS No.: SDG No.: MF004

Matrix: (soil/water) WATER Lab Sample ID: 9505073-03

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: HPY07303

Level: (low/med) Date Received: 05/05/95

% Moisture: not dec._____ Date Analyzed: 05/10/95

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.

SP112

Lab Name: Anametrix, Inc. Contract:

Lab Code: 003 Case No.: 0235 SAS No.: SDG No.: MF004

Matrix: (soil/water) WATER Lab Sample ID: 9505073-04

Sample wt/vol: 1.000 (g/mL) ML Lab File ID: HPY07304

Level: (low/med) Date Received: 05/05/95

% Moisture: not dec._____ Date Analyzed: 05/11/95

GC Column: RTX-502. ID: .53 (mm) Dilution Factor: 5.0

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	2.	U
74-87-3	Chloromethane	2.	U
75-01-4	Vinyl chloride	54.	
74-83-9	Bromomethane	2.	U
75-00-3	Chloroethane	3.	
75-69-4	Trichlorofluoromethane	2.	U
76-13-1	Trichlorotrifluoroethane	2.	U
75-35-4	1,1-Dichloroethene	4.	
75-09-2	Methylene chloride	2.	J
156-60-5	trans-1,2-Dichloroethene	22.	
75-34-3	1,1-Dichloroethane	25.	
156-59-2	cis-1,2-Dichloroethene	130.	
67-66-3	Chloroform	2.	U
71-55-6	1,1,1-Trichloroethane	2.	U
56-23-5	Carbon tetrachloride	2.	U
107-06-2	1,2-Dichloroethane	2.	J
79-01-6	Trichloroethene	3.	
78-87-5	1,2-Dichloropropane	2.	U
75-27-4	Bromodichloromethane	2.	U
110-75-8	2-Chloroethylvinylether	2.	U
10061-01-5	cis-1,3-Dichloropropene	2.	U
10061-02-6	trans-1,3-Dichloropropene	2.	U
79-00-5	1,1,2-Trichloroethane	2.	U
127-18-4	Tetrachloroethene	2.	U
124-48-1	Dibromochloromethane	2.	U
108-90-7	Chlorobenzene	2.	U
75-25-2	Bromoform	2.	U
79-34-5	1,1,2,2-Tetrachloroethane	2.	U
541-73-1	1,3-Dichlorobenzene	2.	U
106-46-7	1,4-Dichlorobenzene	2.	U
95-50-1	1,2-Dichlorobenzene	2.	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SP312

Lab Name: Anametrix, Inc. Contract:

Lab Code: 003 Case No.: 0235 SAS No.: SDG No.: MF004

Matrix: (soil/water) WATER Lab Sample ID: 9505073-05

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: HPY07305

Level: (low/med) Date Received: 05/05/95

% Moisture: not dec._____ Date Analyzed: 05/11/95

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	6.	
74-83-9	Bromomethane	.5	U
75-00-3	Chloroethane	3.	
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.

SP412

Lab Name: Anametrix, Inc. Contract:

Lab Code: 003 Case No.: 0235 SAS No.: SDG No.: MF004

Matrix: (soil/water) WATER Lab Sample ID: 9505073-06

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: HPY07306

Level: (low/med) Date Received: 05/05/95

% Moisture: not dec._____ Date Analyzed: 05/11/95

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.

MF004P1

Lab Name: Anametrix, Inc. Contract:

Lab Code: 003 Case No.: 0235 SAS No.: SDG No.: MF004

Matrix: (soil/water) WATER Lab Sample ID: BY1003I1

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: BY1003I1

Level: (low/med) LOW Date Received: 00/00/00

% Moisture: not dec._____ Date Analyzed: 05/10/95

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.

SP306MS

Lab Name: Anametrix, Inc. Contract:

Lab Code: 003 Case No.: 0235 SAS No.: SDG No.: MF004

Matrix: (soil/water) WATER Lab Sample ID: 9505073-02

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: HMY07302

Level: (low/med) Date Received: 05/05/95

% Moisture: not dec._____ Date Analyzed: 05/10/95

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	11.	
75-35-4	1,1-Dichloroethene	10.	
75-09-2	Methylene chloride	.5	U
156-60-5	trans-1,2-Dichloroethene	11.	
75-34-3	1,1-Dichloroethane	12.	
156-59-2	cis-1,2-Dichloroethene	11.	
67-66-3	Chloroform	.5	U
71-55-6	1,1,1-Trichloroethane	11.	
56-23-5	Carbon tetrachloride	.5	U
107-06-2	1,2-Dichloroethane	.5	U
79-01-6	Trichloroethene	11.	
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	10.	
124-48-1	Dibromochloromethane	.5	U
108-90-7	Chlorobenzene	9.	
75-25-2	Bromoform	.5	U
79-34-5	1,1,2,2-Tetrachloroethane	.5	U
541-73-1	1,3-Dichlorobenzene	10.	
106-46-7	1,4-Dichlorobenzene	9.	
95-50-1	1,2-Dichlorobenzene	9.	

Inchcape Testing Services
Anametrix Laboratories

1961 Concourse Drive
Suite E
San Jose, CA 95131
Tel: 408-432-8192
Fax: 408-433-8188

FACSIMILE TRANSMITTAL COVER SHEET

TO: **DATE:** 5-10-95

Name: Jean Barranco

Company: PRC - Denver

Fax #: 303 - 295 2818

FROM:

Name: Richard Jacobs

Total Number of Pages (INCLUDING COVER): 6
If all pages are not received, please notify sender at (408) 432-8192.

DID YOU KNOW THAT:

INCHCAPE TESTING SERVICES ENVIRONMENTAL LABORATORIES is a group of six laboratories in the United States and one in the United Kingdom.

COMMENTS: C TD = 235 SDG = MF004
PRC - ~~48 Hr~~ 5 DAY TAT
TPHd - 01 through 06

9505073

CONFIDENTIALITY NOTICE: The information contained in this facsimile transmittal is privileged and confidential. It is intended only for the use of the addressee. If the reader of this message is not the intended recipient, or person responsible to deliver it to the intended recipient, you are hereby notified that any dissemination, distribution, or copying of this facsimile transmittal is strictly prohibited. If you have received this transmittal in error, please notify us immediately by telephone and please return the original transmittal to Inchcape Testing Services - Anametrix Laboratories via U.S. Postal Service. Thank you.

ITS Anametrix Laboratories, CA (408)432-8192 ITS Aquatec Laboratories, VT (802)655-1203
ITS NDRC Laboratories, Dallas, TX (214)238-5591 ITS Aquatec Laboratories, MA (508)990-3400
ITS NDRC Laboratories, Houston, TX (713) 661-8150 ITS West-Paine Laboratories, LA (504)769-4900
ITS Environmental Laboratories, St. Helens, UK (44) 0744-611553

CV2-May94

ITS-ANAMETRIX LABORATORIES
1961 Concourse Drive, San Jose, CA 95131, (408) 432-8192 FX (408) 432-8198

TOTAL FUEL HYDROCARBON REPORT

TPH as Diesel / Motor Oil

Workorder # 9505073 Client PRC Environmental Managem

Date Extracted 05/01/95 Project # 0235

Matrix WATER / SOIL Instrument ID # HP9 / HP19 / HP23

ANAMETRIX ID #	CLIENT ID #	DATE ANALYZED	REPORTING LIMIT D M J K	AMOUNT FOUND ppb / ppm Diesel	MO	JP	KE	% SURROGATE RECOVERY
-1	SP106	05/08/95	100	ND	~~230~~ 230	ND	ND	103 %
-2	SP306	05/09/95	100	ND	ND	ND	ND	103 %
-3	SP406	"	100	ND	ND	ND	ND	103 %
-4	SP112	"	500	ND	820	ND	3400	90 %
-5	SP312	"	100	ND	ND	ND	ND	103 %
-6	SP412	"	100	ND	ND	ND	ND	101 %
By 0811F9	Method Blank	05/08/95	100	ND	ND	ND	ND	101 %

Date: 05/10/95 Date:

Analyst: ARP Reviewer:

METHODS PERFORMED ARE THOSE SPECIFIED BY TRIREGIONAL GUIDELINES.

Inchcape Testing Services
Anametrix Laboratories

1961 Concourse Drive
Suite E
San Jose, CA 95131
Tel: 408-432-8192
Fax: 408-432-8198

FACSIMILE TRANSMITTAL COVER SHEET

TO: DATE: 5-11-95

Name: Jean Barranco

Company: PRC - Moffett Field (Site 9)

Fax #: 303-295-2818

FROM:

Name: Richard Jacobs

Total Number of Pages (INCLUDING COVER): 34
If all pages are not received, please notify sender at (408) 432-8192.

DID YOU KNOW THAT:

INCHCAPE TESTING SERVICES ENVIRONMENTAL LABORATORIES is a group of six laboratories in the United States and one in the United Kingdom.

COMMENTS: SDG: MF004 CTO: 235
PRC - Moffet Field
5 DAY TAT
TPHg/BTEX — 01 through -06
9505073

CONFIDENTIALITY NOTICE: The information contained in this facsimile transmittal is privileged and confidential. It is intended only for the use of the addressee. If the reader of this message is not the intended recipient, or person responsible to deliver it to the intended recipient, you are hereby notified that any dissemination, distribution, or copying of this facsimile transmittal is strictly prohibited. If you have received this transmittal in error, please notify us immediately by telephone and please return the original transmittal to Inchcape Testing Services - Anametrix Laboratories via U.S. Postal Service. Thank you.

ITS Anametrix Laboratories, CA (408)432-8192 ITS Aquatec Laboratories, VT (802)655-1203
ITS NDRC Laboratories, Dallas, TX (214)238-5591 ITS Aquatec Laboratories, MA (508)990-3400
ITS NDRC Laboratories, Houston, TX (713) 661-8150 ITS West-Paine Laboratories, LA (504)769-4900
ITS Environmental Laboratories, St. Helens, UK (44) 0744-611553

CVR-Mar94

ANAMETRIX, INC.
1561 Concourse Drive, San Jose, CA 95131, (408) 432-8192

TOTAL FUEL HYDROCARBON REPORT

TPHg with BTEX

Workorder # 9505073 Client Project # 0235

ANAMETRIX ID #	01	02	03	04	05
CLIENT ID #	Sp106	Sp306	Sp406	Sp112	Sp312
CONCENTRATION UNITS	µg/L	→	→	→	→
BENZENE	<1.0	<0.5	<0.5	1100	<0.5
TOLUENE	↓	↓	↓	430	↓
ETHYLBENZENE	↓	↓	↓	1100	↓
XYLENES	↓	↓	↓	780	↓
GASOLINE	760	<50	<50	22000	<50
% SURROGATE RECOVERY	73%	100%	92%	78%	109%
INSTRUMENT #	HP 12 →	→	→	→	→
DATE ANALYZED	5/10/95	5/8/95	5/8/95	5/8/95	5/8/95
RLMF *	2	1	1	100	1

Date: 5/11/95 Date: 5/11/95

Analyst: IS Reviewer: GS

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

* RLMF - Reporting Limit Multiplication Factor

/1330(/2913)

ANAMETRIX, INC.
1561 Concourse Drive, San Jose, CA 95131, (408) 432-8192

TOTAL FUEL HYDROCARBON REPORT

TPHg with BTEX

Workorder # 9505 073 Client Project # 0235

ANAMETRIX ID #	06				
CLIENT ID #	SP 412				
CONCENTRATION UNITS	µg/L				
BENZENE	<0.5				
TOLUENE	↓				
ETHYLBENZENE					
XYLENES					
GASOLINE	<50				
% SURROGATE RECOVERY	108%				
INSTRUMENT #	HP12				
DATE ANALYZED	5/9/95				
RLMF *	1				

Date: IS Date:

Analyst: 5/11/95 Reviewer:

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

* RLMF - Reporting Limit Multiplication Factor

/1330(/2913)

Inchcape Testing Services
Anametrix Laboratories

1961 Concourse Drive
Suite E
San Jose, CA 95131
Tel: 408-432-8192
Fax: 408-432-8198

FACSIMILE TRANSMITTAL COVER SHEET

TO: **DATE:** 5-12-95

Name: Jean Barranco

Company: PRC

CC: (303) 295-2818

FROM:

Name: Tracey Pham

Total Number of Pages (INCLUDING COVER): 11
If all pages are not received, please notify sender at (408) 432-8192.

DID YOU KNOW THAT:

INCHCAPE TESTING SERVICES ENVIRONMENTAL LABORATORIES is a group of six laboratories in the United States and one in the United Kingdom.

COMMENTS: SDG # MF004 CTO# 235
PRC - Moffet Site 9 5 days TAT
CLP metals : 9505073-01, -03, -04, -06, -07.

CONFIDENTIALITY NOTICE: The information contained in this facsimile transmittal is privileged and confidential. It is intended only for the use of the addressee. If the reader of this message is not the intended recipient, or person responsible to deliver it to the intended recipient, you are hereby notified that any dissemination, distribution, or copying of this facsimile transmittal is strictly prohibited. If you have received this transmittal in error, please notify us immediately by telephone and please return the original transmittal to Inchcape Testing Services - Anametrix Laboratories via U.S. Postal Service. Thank you.

ITS Anametrix Laboratories, CA (408)432-8192
ITS NDRC Laboratories, Dallas, TX (214)238-5591
ITS NDRC Laboratories, Houston, TX (713) 661-8150
ITS Aquatec Laboratories, VT (802)655-1203
ITS Aquatec Laboratories, MA (508)990-3400
ITS West-Paine Laboratories, LA (504)769-4900
ITS Environmental Laboratories, St. Helens, UK (44) 0744-611553

ENVIRONMENTAL MANAGEMENT INC.

CHAIN-OF-CUSTODY RECORD

DATE: _____

DESTINATION Anametrix

PROJECT NAME: MOFFETT SITE 9 SCM

PROJECT JOB #: 044-0235/RSC9C

SAMPLER(S): PRINTED NAME AND SIGNATURE

SAMPLING TEAM #

SAMPLE I.D.	DATE OF COLLECTION	TIME OF COLLECTION	SAMPLE MEDIUM (MATRIX)	GRAB	COMP	SAMPLE LOCATION	NUMBER/SIZE OF CONTAINERS	VOC 8010	TPH purge 8015	TPH [illegible]	Total Metal [illegible]	Diss Metal [illegible]						REMARKS
TS-S9-SP1-06	5-5-95	1000	WATER	X		BUILDING 6 SP1	6x40ml, 2x1-liter Amber, 2x1-liter Poly	P	P	U	P	B						5 DAY TAT
TS-S9-SP3-06		1020	WATER	X		BUILDING 6 SP3	6x40ml, 2x1-liter Amber	P	P	U								
TS-S9-SP4-06		1040	WATER	X		BUILDING 6 SP4	6x40ml, 2x1-liter Amber, 2x1-liter Poly	P	P	U	P	B						
TS-S9-SP1-12		1115	WATER	X		BUILDING 12 SP1	6x40ml, 2x1-liter Amber, 2x1-liter Poly	P	P	U	P	B						
TS-S9-SP3-12		1135	WATER	X		BUILDING 12 SP3	6x40ml, 2x1-liter Amber	P	P	U								
TS-S9-SP4-12		1155	WATER	X		BUILDING 12 SP4	6x40ml, 2x1-liter Amber, 2x1-liter Poly	P	P	U	P	B						
RW-S9-NSB-01		1315	WATER	X		NASA SETTLING BASIN EFFLUENT	1x1-liter Poly				P							
TB-01		1000	WATER	X		TRIP BLANK	2x40ml	P										

SIGNATURE	NAME (print)	COMPANY/TITLE	DATE	TIME
RELINQUISHED BY: Steve B	Steve Broering	PRC / Envr Sci	5/5/95	1430
RECEIVED BY: Benny S. Carrizosa	BENNY S. CARRIZOSA	ITS ANAMETRIX	5/5/95	1430
RELINQUISHED BY: Benny S. Carrizosa	BENNY S. CARRIZOSA	ITS ANAMETRIX	5/5/95	1540
RECEIVED BY: [illegible]	Jose Perez	ITS Anametrix	5/5/95	1540
RELINQUISHED BY:				
RECEIVED BY:				

REMARKS:

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

ENVIROFORMS/INORGANIC CLP

1

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

SP106D

Lab Name: ANAMETRIX INC Contract: 000000

Lab Code: ANAMET Case No.: 0235 SAS No.: 000000 SDG No.: MF004

Matrix (soil/water): WATER Lab Sample ID: 05073-01D

Level (low/med): LOW Date Received: 05/05/95

% 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	44.0	B		P
7440-36-0	Antimony	1.9	U		P
7440-38-2	Arsenic	1.4	U		P
7440-39-3	Barium	26.6	B		P
7440-41-7	Beryllium	0.10	U		P
7440-43-9	Cadmium	0.10	U		P
7440-70-2	Calcium	191000			P
7440-47-3	Chromium	1.0	U		P
7440-48-4	Cobalt	0.40	U		P
7440-50-8	Copper	6.6	B		P
7439-89-6	Iron	35.5	B		P
7439-92-1	Lead	4.4		*	P
7439-95-4	Magnesium	64700			P
7439-96-5	Manganese	32.1			P
7439-97-6	Mercury	0.10	U		CV
7439-98-7	Molybdenum	2.1	B		P
7440-02-0	Nickel	3.1	B		P
7440-09-7	Potassium	1880	B		P
7782-49-2	Selenium	8.9			P
7440-22-4	Silver	0.50	U		P
7440-23-5	Sodium	40000			P
7440-28-0	Thallium	1.5	U		P
7440-62-2	Vanadium	2.5	B		P
7440-66-6	Zinc	84.0		E	P

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

FORM I - IN (ILM02.1)

ENVIROFORMS/INORGANIC CLP

1

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

SP106T

Lab Name: ANAMETRIX INC Contract: 000000

Lab Code: ANAMET Case No.: 0235 SAS No.: 000000 SDG No.: MF004

Matrix (soil/water): WATER Lab Sample ID: 05073-01T

Level (low/med): LOW Date Received: 05/05/95

% 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	32.0	B		P
7440-36-0	Antimony	1.9	U		P
7440-38-2	Arsenic	1.4	U		P
7440-39-3	Barium	25.6	B		P
7440-41-7	Beryllium	0.10	U		P
7440-43-9	Cadmium	0.10	U		P
7440-70-2	Calcium	186000			P
7440-47-3	Chromium	1.0	U		P
7440-48-4	Cobalt	0.40	U		P
7440-50-8	Copper	3.9	B		P
7439-89-6	Iron	10.2	B		P
7439-92-1	Lead	1.3	U	*	P
7439-95-4	Magnesium	63700			P
7439-96-5	Manganese	34.8			P
7439-97-6	Mercury	0.10	U		CV
7439-98-7	Molybdenum	2.2	B		P
7440-02-0	Nickel	2.7	B		P
7440-09-7	Potassium	1890	B		P
7782-49-2	Selenium	8.1			P
7440-22-4	Silver	0.50	U		P
7440-23-5	Sodium	39600			P
7440-28-0	Thallium	2.7			P
7440-62-2	Vanadium	2.3	B		P
7440-66-6	Zinc	64.5		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.

SP406D

Lab Name: ANAMETRIX INC Contract: 000000

Lab Code: ANAMET Case No.: 0235 SAS No.: 000000 SDG No.: MF004

Matrix (soil/water): WATER Lab Sample ID: 05073-03D

Level (low/med): LOW Date Received: 05/05/95

% 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	33.7	B		P
7440-36-0	Antimony	1.9	U		P
7440-38-2	Arsenic	1.4	U		P
7440-39-3	Barium	26.0	B		P
7440-41-7	Beryllium	0.10	U		P
7440-43-9	Cadmium	0.10	U		P
7440-70-2	Calcium	182000			P
7440-47-3	Chromium	1.0	U		P
7440-48-4	Cobalt	0.49	B		P
7440-50-8	Copper	1.1	B		P
7439-89-6	Iron	80.0	B		P
7439-92-1	Lead	1.3	U	*	P
7439-95-4	Magnesium	63200			P
7439-96-5	Manganese	6.2	B		P
7439-97-6	Mercury	0.10	U		CV
7439-98-7	Molybdenum	2.0	B		P
7440-02-0	Nickel	3.1	B		P
7440-09-7	Potassium	1800	B		P
7782-49-2	Selenium	6.7			P
7440-22-4	Silver	0.50	U		P
7440-23-5	Sodium	39200			P
7440-28-0	Thallium	1.5	U		P
7440-62-2	Vanadium	1.6	B		P
7440-66-6	Zinc	263		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.

SP406T

Lab Name: ANAMETRIX INC Contract: 000000

Lab Code: ANAMET Case No.: 0235 SAS No.: 000000 SDG No.: MF004

Matrix (soil/water): WATER Lab Sample ID: 05073-03T

Level (low/med): LOW Date Received: 05/05/95

% 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	33.3	B		P
7440-36-0	Antimony	1.9	U		P
7440-38-2	Arsenic	1.4	U		P
7440-39-3	Barium	25.7	B		P
7440-41-7	Beryllium	0.10	U		P
7440-43-9	Cadmium	0.10	U		P
7440-70-2	Calcium	185000			P
7440-47-3	Chromium	1.0	U		P
7440-48-4	Cobalt	0.54	B		P
7440-50-8	Copper	1.3	B		P
7439-89-6	Iron	83.4	B		P
7439-92-1	Lead	1.3	U	*	P
7439-95-4	Magnesium	64100			P
7439-96-5	Manganese	5.5	B		P
7439-97-6	Mercury	0.10	U		CV
7439-98-7	Molybdenum	1.5	B		P
7440-02-0	Nickel	3.0	B		P
7440-09-7	Potassium	1810	B		P
7782-49-2	Selenium	6.3			P
7440-22-4	Silver	0.50	U		P
7440-23-5	Sodium	39800			P
7440-28-0	Thallium	1.6	B		P
7440-62-2	Vanadium	1.7	B		P
7440-66-6	Zinc	349		E	P

olor Before: COLORLESS Clarity Before: CLEAR Texture:

olor After: COLORLESS Clarity After: CLEAR Artifacts:

omments:

ENVIROFORMS/INORGANIC CLP

1

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

SP112D

Lab Name: ANAMETRIX INC Contract: 000000

Lab Code: ANAMET Case No.: 0235 SAS No.: 000000 SDG No.: MF004

Matrix (soil/water): WATER Lab Sample ID: 05073-04D

Level (low/med): LOW Date Received: 05/05/95

% 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	35.5	B		P
7440-36-0	Antimony	1.9	U		P
7440-38-2	Arsenic	9.7	B		P
7440-39-3	Barium	459			P
7440-41-7	Beryllium	0.11	B		P
7440-43-9	Cadmium	0.10	U		P
7440-70-2	Calcium	154000			P
7440-47-3	Chromium	1.0	U		P
7440-48-4	Cobalt	0.40	B		P
7440-50-8	Copper	2.4	B		P
7439-89-6	Iron	2250			P
7439-92-1	Lead	1.3	U	*	P
7439-95-4	Magnesium	68500			P
7439-96-5	Manganese	615			P
7439-97-6	Mercury	0.10	U		CV
7439-98-7	Molybdenum	0.80	U		P
7440-02-0	Nickel	1.3	U		P
7440-09-7	Potassium	2790	B		P
7782-49-2	Selenium	3.5	U		P
7440-22-4	Silver	0.50	U		P
7440-23-5	Sodium	52700			P
7440-28-0	Thallium	1.5	U		P
7440-62-2	Vanadium	0.70	U		P
7440-66-6	Zinc	23.8		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.

SP112T

Lab Name: ANAMETRIX INC Contract: 000000

Lab Code: ANAMET Case No.: 0235 SAS No.: 000000 SDG No.: MF004

Matrix (soil/water): WATER Lab Sample ID: 05073-04T

Level (low/med): LOW Date Received: 05/05/95

% 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	34.8	B		P
7440-36-0	Antimony	1.9	U		P
7440-38-2	Arsenic	10.6			P
7440-39-3	Barium	457			P
7440-41-7	Beryllium	0.10	B		P
7440-43-9	Cadmium	0.10	U		P
7440-70-2	Calcium	151000			P
7440-47-3	Chromium	1.0	U		P
7440-48-4	Cobalt	0.40	U		P
7440-50-8	Copper	6.7	B		P
7439-89-6	Iron	2380			P
7439-92-1	Lead	1.3	U	*	P
7439-95-4	Magnesium	67600			P
7439-96-5	Manganese	614			P
7439-97-6	Mercury	0.10	U		CV
7439-98-7	Molybdenum	0.80	U		P
7440-02-0	Nickel	1.3	U		P
7440-09-7	Potassium	2780	B		P
7782-49-2	Selenium	3.5	U		P
7440-22-4	Silver	0.50	U		P
7440-23-5	Sodium	55200			P
7440-28-0	Thallium	3.0			P
7440-62-2	Vanadium	0.70	U		P
7440-66-6	Zinc	57.6		E	P

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

ENVIROFORMS/INORGANIC CLP

SAMPLE NO.

1

INORGANIC ANALYSIS DATA SHEET

SP412T

Lab Name: ANAMETRIX INC Contract: 000000

Lab Code: ANAMET Case No.: 0235 SAS No.: 000000 SDG No.: MF004

Matrix (soil/water): WATER Lab Sample ID: 05073-06T

Level (low/med): LOW Date Received: 05/05/95

% 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	36.3	B		P
7440-36-0	Antimony	1.9	U		P
7440-38-2	Arsenic	3.8	B		P
7440-39-3	Barium	427			P
7440-41-7	Beryllium	0.11	B		P
7440-43-9	Cadmium	0.10	U		P
7440-70-2	Calcium	151000			P
7440-47-3	Chromium	1.0	U		P
7440-48-4	Cobalt	0.44	B		P
7440-50-8	Copper	2.4	B		P
7439-89-6	Iron	138			P
7439-92-1	Lead	1.3	U	*	P
7439-95-4	Magnesium	68900			P
7439-96-5	Manganese	540			P
7439-97-6	Mercury	0.10	U		CV
7439-98-7	Molybdenum	0.80	U		P
7440-02-0	Nickel	2.2	B		P
7440-09-7	Potassium	2780	B		P
7782-49-2	Selenium	3.5	U		P
7440-22-4	Silver	0.50	U		P
7440-23-5	Sodium	56800			P
7440-28-0	Thallium	1.5	U		P
7440-62-2	Vanadium	0.70	U		P
7440-66-6	Zinc	68.3		E	P

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

10

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

10 May, 1995

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-12158. 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:	5 May, 1995
Date Started:	9 May, 1995
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.

Ray Markel/DJC

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