N00296.002266
MOFFETT FIELD
SSIC NO. 5090.3

5090
Ser 1843.2/5093
June 27, 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 MAY 8, 1995 TO JUNE 11, 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 May 8, 1995, to June 11, 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. However, the Building 45 system was off line during this period. Operation of the Building 45 treatment system is pending results of a startup test and 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 similar to those in the influent. The dissolved metals analysis indicated effluent zinc levels of 181 micrograms per liter (μg/L) and the total metals analysis indicated effluent zinc levels of 160 μg/L. 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.

2266

5090
Ser 1843.2/5093

SUBJ: MOFFETT FEDERAL AIRFIELD (MFA) SITE 9 SOURCE CONTROL MEASURES (SCM) SELF-MONITORING REPORT FOR MAY 8, 1995 TO JUNE 11, 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,

Original signed by:

STEPHEN CHAO
BRAC Environmental Coordinator

Encl:
(1) Self-Monitoring Report for May 8,1995 to June 11,1995

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/SM061195

N00296.002266
MOFFETT FIELD
SSIC NO. 5090.3

MOFFETT FEDERAL AIRFIELD SITE 9 SOURCE CONTROL MEASURES SELF-MONITORING REPORT FOR MAY 8, 1995 TO JUNE 11, 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: May 8, 1995 - June 11, 1995

System Data*	Bldg 45 System	Bldg 12 System	Bldg 6 System
Total Flow for Period (gal)	NA	81700	63200
Influent pH	NA	6.89	7.47
Effluent pH	NA	7.26	7.39
Influent Temperature (C)	NA	19.7	20.6
Effluent Temperature (C)	NA	19.9	20.6

* 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 5\12\95. Changed out bag filter on 6\5\95.
Building 6: None.

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

Reporting Period: May 8, 1995 - June 11, 1995

TREATMENT SYSTEM
DISCHARGE LIMIT EXCEEDENCE SUMMARY

Sample ID	Analyte	Concentration (ug/L)	Discharge Limit (ug/L)
TS-S9-SP4-06	Se (tot.)	9.2	5
TS-S9-SP4-06	Zn (tot.)	160	110
TS-S9-SP4-06	Se (diss.)	9.9	5
TS-S9-SP4-06	Zn (diss.)	181	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
7-5-95
PROFESSIONAL ENGINEER

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:** 6-15-95

Name: Jean Barranco

Company: PRC - Denver

Fax #: 303-295-2818

FROM:

Name: Richard Jacobs

Total Number of Pages (INCLUDING COVER): _____
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: COC: 235 SDG: MF006
PRC - 5 DAY Rush
TPHg/BTEX/- -01 through -06.

95-06/25

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ITS Environmental Laboratories, St. Helens, UK (44) 0744-611553

CVR-May96

Page 1 of 2

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

TOTAL FUEL HYDROCARBON REPORT

TPHg with BTEX

Workorder # 9506125 Client Project # 0235

ANAMETRIX ID #	01	02	03	04	05
CLIENT ID #	SP106	SP306	SP406	SP112	SP312
CONCENTRATION UNITS	ug/L	→	→	→	→
BENZENE	<0.5	<0.5	<0.5	~~900~~ 910	<0.5
TOLUENE	↓	↓	↓	~~20~~ <50	↓
ETHYLBENZENE	↓	↓	↓	1400	↓
XYLENES	↓	↓	↓	1000	↓
GASOLINE	640 (2)	<50	<50	20000	<50
% SURROGATE RECOVERY	102%	98%	104%	105%	102%
INSTRUMENT #	HP21	→	→	→	→
DATE ANALYZED	06/12/95	06/13/95	→	→	→
RLMF *	1	→	→	~~100~~ 10	1

Date: 06/15/95 Date: 6/15/95

Analyst: TS Reviewer: [illegible]

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

* RLMF - Reporting Limit Multiplication Factor

/1330(/2813)

JUN-15-1995 18:02 P.03

81

PRC ENV ... AL MANAGEMENT INC.

9506125 (18) (16) (10/34) 6°C

CHAIN-OF-CUSTODY RECORD

DATE: —

DESTINATION

PROJECT NAME: MOFFETT SITE 9 SCM

PROJECT JOB #: 044-0235/RSC9C

SAMPLER(S): PRINTED NAME AND SIGNATURE: Steve Broering [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 pure 8015	TPH [illegible]	Total Metal CLP	Diss Metal CLP						REMARKS
TS-S9-SP1-06	6-8-95	700	WATER	X		BUILDING 6 SP1	6x40ml, 2x1-liter Amber, 2x1-liter Poly	P	P	U	P	B	2 voa w/bubbles					5 DAY TAT
TS-S9-SP3-06		720	WATER	X		BUILDING 6 SP3	6x40ml, 2x1-liter Amber	P	P	U			1 voa w/bubbles					
TS-S9-SP4-06		740	WATER	X		BUILDING 6 SP4	6x40ml, 2x1-liter Amber, 2x1-liter Poly	P	P	U	P	B						
TS-S9-SP1-12		800	WATER	X		BUILDING 12 SP1	6x40ml, 2x1-liter Amber, 2x1-liter Poly	P	P	U	P	B	5 voa w/bubbles					
TS-S9-SP3-12		820	WATER	X		BUILDING 12 SP3	6x40ml, 2x1-liter Amber	P	P	U			5 voa w/bubbles					
TS-S9-SP4-12		840	WATER	X		BUILDING 12 SP4	6x40ml, 2x1-liter Amber, 2x1-liter Poly	P	P	U	P	B	1 voa w/bubbles					
RW-S9-NSB-01		900	WATER	X		NASA SETTLING BASIN EFFLUENT	1x1-liter Poly				P							
TB-01		0700	WATER	X		TRIP BLANK	2x40ml	P					2 voa w/bubbles					

	SIGNATURE	NAME (print)	COMPANY/TITLE	DATE	TIME
RELINQUISHED BY:	[signature]	Steve Broering	PRC-EMD / Envr Sci	6-8-95	
RECEIVED BY:	[signature]	Peter Bins	ITS	6/08/95	1604
RELINQUISHED BY:	[signature]	Peter Bins	ITS	6/08/95	1730
RECEIVED BY:	[signature]	Joe Perez	ITS	6/8/95	1730
RELINQUISHED BY:					
RECEIVED BY:					

REMARKS:

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

Page 2 of 2

TOTAL FUEL HYDROCARBON REPORT

TPHg with BTEX

Workorder # 9506125 Client Project # 0235

ANAMETRIX ID #	06				
CLIENT ID #	SP412				
CONCENTRATION UNITS	ug/L				
BENZENE	<0.5				
TOLUENE	↓				
ETHYLBENZENE	↓				
XYLENES	↓				
GASOLINE	<50				
% SURROGATE RECOVERY	103%				
INSTRUMENT #	HP21				
DATE ANALYZED	06/13/95				
RLMF *	1				

Date: 06/15/95 Date: 6/15/95

Analyst: TS Reviewer: [illegible]

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

* RLMF - Reporting Limit Multiplication Factor

/1336(/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: 6-14-95

Name: Jean Barranco

Company: PRC Denver

Fax #: 303-295-2818

FROM:

Name: Richard Jacobs

Total Number of Pages (INCLUDING COVER): 2
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DID YOU KNOW THAT:

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COMMENTS: CTO: 235 SDG: MF006
PRC - Denver - Site 9 5 DAY TAT
TPHd - -01, 02, 03, 04, 05, 06

9506125

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CVE-Mar94

RJ

ITS-ANAMETRIX LABORATORIES
1961 Concourse Drive, San Jose, CA 95131, (408) 432-8192 FX (408) 432-8188

TOTAL FUEL HYDROCARBON REPORT

TPH as Diesel / Motor Oil

Prilimirary Result.

Workorder # 9506125. Client PRC.

Date Extracted 6/9/95 Project # 0235.

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

ANAMETRIX ID #	CLIENT ID #	DATE ANALYZED	REPORTING LIMIT ppb D M K JPS	AMOUNT FOUND ppb / ppm D. M. K. JPS	% SURROGATE RECOVERY
1	SP106	6/13/95	100	ND ND ND ND	98%
2	SP306	6/13/95	JD 6/13/95 ~~100~~ 140	ND ND ND ND	99%
3	SP406	6/13/95	110	ND ND ND ND	99%
4	SP112	6/13/95	500	ND ~~4160~~ ND 4160 ND JD 6/14/95	100%
5	SP312	↓	110	ND ND ND ND	103%
6	SP412	↓	170	ND ND ND ND	105%
BU0911F-9	M. Blank.	6/13/95	100ppb.	ND ND ND ND	109%

Date: 6/14/95 Date:

Analyst: JD 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: 408-438-8198

FACSIMILE TRANSMITTAL COVER SHEET

TO: **DATE:** 6-13-95

Name: Jean Barrauco

Company: PRC-Denver

Fax #: 303-295-2818

FROM:

Name: Richard Jacobs

Total Number of Pages (INCLUDING COVER): 18
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COMMENTS: CTO: 235 SDG: MF006
PRC-Moffett Field - Site 9
8010 - -01, -02, -03, -04, -05, -06, -08
5DAY TAT.

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ITS Environmental Laboratories, St. Helens, UK (44) 0744-611553

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

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

Workorder # : 9506125
Date Received : 06/08/95
Project ID : 0235
Purchase Order: MF006
Department : GC
Sub-Department: VOA

SAMPLE INFORMATION:

ANAMETRIX SAMPLE ID	CLIENT SAMPLE ID	MATRIX	DATE SAMPLED	METHOD
9506125- 1	SP106	WATER	06/08/95	8010
9506125- 2	SP306	WATER	06/08/95	8010
9506125- 3	SP406	WATER	06/08/95	8010
9506125- 4	SP112	WATER	06/08/95	8010
9506125- 5	SP312	WATER	06/08/95	8010
9506125- 6	SP412	WATER	06/08/95	8010
9506125- 8	TB-01	WATER	06/08/95	8010

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SP106

Lab Name: Anametrix, Inc. Contract:

Lab Code: 003 Case No.: 0235 SAS No.: SDG No.: MF006

Matrix: (soil/water) WATER Lab Sample ID: 9506125-01

Sample wt/vol: .100 (g/mL) ML Lab File ID: HPU12501

Level: (low/med) Date Received: 06/08/95

% Moisture: not dec._____ Date Analyzed: 06/12/95

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	25.	U
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	340.	
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	210.	
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.: MF006

Matrix: (soil/water) WATER Lab Sample ID: 9506125-02

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: HPU12502

Level: (low/med) Date Received: 06/08/95

% Moisture: not dec._____ Date Analyzed: 06/12/95

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.: MF006

Matrix: (soil/water) WATER Lab Sample ID: 9506125-03

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: HPU12503

Level: (low/med) Date Received: 06/08/95

% Moisture: not dec._____ Date Analyzed: 06/12/95

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.: MF006

Matrix: (soil/water) WATER Lab Sample ID: 9506125-04

Sample wt/vol: 1.000 (g/mL) ML Lab File ID: HPU12504

Level: (low/med) Date Received: 06/08/95

% Moisture: not dec._____ Date Analyzed: 06/12/95

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	66.	
74-83-9	Bromomethane	2.	U
75-00-3	Chloroethane	2.	U
75-69-4	Trichlorofluoromethane	2.	U
76-13-1	Trichlorotrifluoroethane	2.	U
75-35-4	1,1-Dichloroethene	4.	
75-09-2	Methylene chloride	3.	
156-60-5	trans-1,2-Dichloroethene	22.	
75-34-3	1,1-Dichloroethane	27.	
156-59-2	cis-1,2-Dichloroethene	140.	
67-66-3	Chloroform	3.	
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	2.	U
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

11

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.: MF006

Matrix: (soil/water) WATER Lab Sample ID: 9506125-05

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: HPU12505

Level: (low/med) Date Received: 06/08/95

% Moisture: not dec._____ Date Analyzed: 06/12/95

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	22.	
74-83-9	Bromomethane	.5	U
75-00-3	Chloroethane	4.	
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.: MF006

Matrix: (soil/water) WATER Lab Sample ID: 9506125-06

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: HPU12506

Level: (low/med) Date Received: 06/08/95

% Moisture: not dec._____ Date Analyzed: 06/12/95

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.

TB-01

Lab Name: Anametrix, Inc. Contract:

Lab Code: 003 Case No.: 0235 SAS No.: SDG No.: MF006

Matrix: (soil/water) WATER Lab Sample ID: 9506125-08

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: HPU12508

Level: (low/med) Date Received: 06/08/95

% Moisture: not dec._____ Date Analyzed: 06/12/95

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.

MF006P1

Lab Name: Anametrix, Inc. Contract:

Lab Code: 003 Case No.: 0235 SAS No.: SDG No.: MF006

Matrix: (soil/water) WATER Lab Sample ID: BU1202I1

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: BU1202I1

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

% Moisture: not dec._____ Date Analyzed: 06/12/95

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.

MF006P2

Lab Name: Anametrix, Inc. Contract:

Lab Code: 003 Case No.: 0235 SAS No.: SDG No.: MF006

Matrix: (soil/water) WATER Lab Sample ID: BU1203I1

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: BU1203I1

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

% Moisture: not dec._____ Date Analyzed: 06/12/95

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

PRC ENVIRONMENTAL MANAGEMENT INC.

9501 125 (18) (16) (10/31)

DATE: —

CHAIN-OF-CUSTODY RECORD

DESTINATION

PROJECT NAME: MOFFETT SITE 9 SCM

PROJECT JOB #: 044-0235/RSC9C

SAMPLER(S): PRINTED NAME AND SIGNATURE: Steve Brown

SAMPLING TEAM #:

SAMPLE I.D.	DATE OF COLLECTION	TIME OF COLLECTION	SAMPLE MEDIUM (MATRIX)	GRAB	COMP	SAMPLE LOCATION	NUMBER/SIZE OF CONTAINERS	VOC 9010	TPH purge 8015	TPH extract 8015	Total Metal CLP	Diss Metal CLP						REMARKS
TB-S9-SP1-06	6-8-95	700	WATER	X		BUILDING 6 SP 1	6x40ml, 2x1-liter Amber, 2x1-liter Poly	P	P	U	P	B	2 voa w/bubbles					5 DAY TAT
TB-S9-SP3-06		720	WATER	X		BUILDING 6 SP 3	6x40ml, 2x1-liter Amber	P	P	U			1 voa w/bubbles					
TB-S9-SP4-06		740	WATER	X		BUILDING 6 SP 4	6x40ml, 2x1-liter Amber, 2x1-liter Poly	P	P	U	P	B						
TB-S9-SP1-12		800	WATER	X		BUILDING 12 SP 1	6x40ml, 2x1-liter Amber, 2x1-liter Poly	P	P	U	P	B	5 voa w/bubbles					
TB-S9-SP3-12		820	WATER	X		BUILDING 12 SP 3	6x40ml, 2x1-liter Amber	P	P	U			1 voa w/bubbles					
TB-S9-SP4-12		840	WATER	X		BUILDING 12 SP 4	6x40ml, 2x1-liter Amber, 2x1-liter Poly	P	P	U	P	B	1 voa w/bubbles					
RW-S9-NSB-01		900	WATER	X		NASA SETTLING BASIN EFFLUENT	1x1-liter Poly				P							
TB-01		0700	WATER	X		TRIP BLANK	2x40ml	P					2 voa w/bubbles					

	SIGNATURE	NAME (print)	COMPANY/TITLE	DATE	TIME
RELINQUISHED BY:	[signature]	Steve Brown	PRC-EMS / Envirosci	6-8-95	
RECEIVED BY:	[signature]	Peter Bins	ITS	6/08/95	1600
RELINQUISHED BY:	[signature]	Peter Bins	ITS	6/08/95	1730
RECEIVED BY:	[signature]	Joe Perez	ITS	6/8/95	1730
RELINQUISHED BY:					
RECEIVED BY:					

REMARKS:

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

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:** 6/15/95

Name: Jean Barranco

Company: PRC - Denver

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: CTO : 235 SDG # MF006
PRC Moffet Field Site 9 - 5 days TAT.
CLP metals: 9506125-01,03,04,06 (Totals & Dissolved)
-07 (Totals only)
Mercury results will follow later ....

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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

PRC ENV ...AL MANAGEMENT INC.

95 6125 (18) (16) (10/31)

DATE: 1

CHAIN-OF-CUSTODY RECORD

DESTINATION

PROJECT NAME: MOFFETT SITE 9 SCM

PROJECT JOB #: 044-0235/RSC9C

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

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 gas 8015	TPH [illegible]	Total Metals CLP	Diss Metals CLP						REMARKS
TS-S9-SP1-06	6-8-95	700	WATER	X		BUILDING 6 SP1	6x40ml, 2x1-liter Amber, 2x1-liter Poly	P	P	U	P	B	2 vocs w/bubbles					5 DAY TAT
TS-S9-SP3-06		720	WATER	X		BUILDING 6 SP3	6x40ml, 2x1-liter Amber	P	P	U			1 voa w/bubbles					
TS-S9-SP4-06		740	WATER	X		BUILDING 6 SP4	6x40ml, 2x1-liter Amber, 2x1-liter Poly	P	P	U	P	B						
TS-S9-SP1-12		800	WATER	X		BUILDING 12 SP1	6x40ml, 2x1-liter Amber, 2x1-liter Poly	P	P	U	P	B	5 voa w/bubbles					
TS-S9-SP3-12		820	WATER	X		BUILDING 12 SP3	6x40ml, 2x1-liter Amber	P	P	U			5 voa w/bubbles					
TS-S9-SP4-12		840	WATER	X		BUILDING 12 SP4	6x40ml, 2x1-liter Amber, 2x1-liter Poly	P	P	U	P	B	1 voa w/bubbles					
RW-S9-NSB-01		900	WATER	X		NASA SETTLING BASIN EFFLUENT	1x1-liter Poly				P							
TB-01		0700	WATER	X		TRIP BLANK	2x40 ml	P					2 voa w/bubbles					

	SIGNATURE	NAME (print)	COMPANY/TITLE	DATE	TIME
RELINQUISHED BY:	[signature]	Steve Broering	PRC-EMS / Envir Sci	6-8-95	
RECEIVED BY:	[signature]	Peter Bins	ITS	6/08/95	1600
RELINQUISHED BY:	[signature]	Peter Bins	ITS	6/08/95	1730
RECEIVED BY:	[signature]	Jose Perez	ITS	6/8/95	1730
RELINQUISHED BY:					
RECEIVED BY:					

REMARKS:

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

JUN-15-1995 15:46 P.02

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.: MF006

Matrix (soil/water): WATER Lab Sample ID: 06125-01D

Level (low/med): LOW Date Received: 06/08/95

% 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	34.1	B		P
7440-36-0	Antimony	1.9	U		P
7440-38-2	Arsenic	1.4	U		P
7440-39-3	Barium	24.8	B		P
7440-41-7	Beryllium	0.11	B		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	0.40	U		P
7440-50-8	Copper	8.7	B		P
7439-89-6	Iron	48.7	B		P
7439-92-1	Lead	1.3	U		P
7439-95-4	Magnesium	67900			P
7439-96-5	Manganese	36.0			P
7439-97-6	Mercury				
7439-98-7	Molybdenum	1.3	B		P
7440-02-0	Nickel	2.3	B		P
7440-09-7	Potassium	2880	B	E	P
7782-49-2	Selenium	8.7			P
7440-22-4	Silver	0.50	U		P
7440-23-5	Sodium	75200			P
7440-28-0	Thallium	1.5	U		P
7440-62-2	Vanadium	2.0	B		P
7440-66-6	Zinc	70.5			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.

SP106T

Lab Name: ANAMETRIX INC Contract: 000000

Lab Code: ANAMET Case No.: 0235 SAS No.: 000000 SDG No.: MF006

Matrix (soil/water): WATER Lab Sample ID: 06125-01T

Level (low/med): LOW Date Received: 06/08/95

% 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	30.2	B		P
7440-36-0	Antimony	1.9	U		P
7440-38-2	Arsenic	2.4	B		P
7440-39-3	Barium	24.9	B		P
7440-41-7	Beryllium	0.13	B		P
7440-43-9	Cadmium	0.10	U		P
7440-70-2	Calcium	189000			P
7440-47-3	Chromium	1.0	U		P
7440-48-4	Cobalt	0.40	U		P
7440-50-8	Copper	58.1			P
7439-89-6	Iron	13.4	B		P
7439-92-1	Lead	7.7			P
7439-95-4	Magnesium	65500			P
7439-96-5	Manganese	29.6			P
7439-97-6	Mercury				
7439-98-7	Molybdenum	1.5	B		P
7440-02-0	Nickel	7.9	B		P
7440-09-7	Potassium	1850	B	E	P
7782-49-2	Selenium	8.7			P
7440-22-4	Silver	0.50	U		P
7440-23-5	Sodium	40300			P
7440-28-0	Thallium	1.5	U		P
7440-62-2	Vanadium	1.9	B		P
7440-66-6	Zinc	88.3			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

SP406D

Lab Name: ANAMETRIX INC Contract: 000000

Lab Code: ANAMET Case No.: 0235 SAS No.: 000000 SDG No.: MF006

Matrix (soil/water): WATER Lab Sample ID: 06125-03D

Level (low/med): LOW Date Received: 06/08/95

% 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	41.5	B		P
7440-36-0	Antimony	1.9	U		P
7440-38-2	Arsenic	1.4	B		P
7440-39-3	Barium	26.6	B		P
7440-41-7	Beryllium	0.12	B		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	2.6	B		P
7439-89-6	Iron	96.8	B		P
7439-92-1	Lead	1.3	U		P
7439-95-4	Magnesium	64900			P
7439-96-5	Manganese	7.1	B		P
7439-97-6	Mercury				
7439-98-7	Molybdenum	2.2	B		P
7440-02-0	Nickel	2.3	B		P
7440-09-7	Potassium	1830	B	E	P
7782-49-2	Selenium	9.9			P
7440-22-4	Silver	0.50	U		P
7440-23-5	Sodium	40300			P
7440-28-0	Thallium	1.5	U		P
7440-62-2	Vanadium	1.7	B		P
7440-66-6	Zinc	181			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.: MF006

Matrix (soil/water): WATER Lab Sample ID: 06125-03T

Level (low/med): LOW Date Received: 06/08/95

% 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	47.6	B		P
7440-36-0	Antimony	1.9	U		P
7440-38-2	Arsenic	1.4	U		P
7440-39-3	Barium	26.7	B		P
7440-41-7	Beryllium	0.17	B		P
7440-43-9	Cadmium	0.10	U		P
7440-70-2	Calcium	188000			P
7440-47-3	Chromium	1.0	U		P
7440-48-4	Cobalt	0.40	U		P
7440-50-8	Copper	1.8	B		P
7439-89-6	Iron	270			P
7439-92-1	Lead	1.3	U		P
7439-95-4	Magnesium	65900			P
7439-96-5	Manganese	7.5	B		P
7439-97-6	Mercury				
7439-98-7	Molybdenum	2.0	B		P
7440-02-0	Nickel	2.7	B		P
7440-09-7	Potassium	1820	B	E	P
7782-49-2	Selenium	9.2			P
7440-22-4	Silver	0.50	U		P
7440-23-5	Sodium	40300			P
7440-28-0	Thallium	1.5	U		P
7440-62-2	Vanadium	1.5	B		P
7440-66-6	Zinc	160			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.

SP112D

Lab Name: ANAMETRIX INC Contract: 000000

Lab Code: ANAMET Case No.: 0235 SAS No.: 000000 SDG No.: MF006

Matrix (soil/water): WATER Lab Sample ID: 06125-04D

Level (low/med): LOW Date Received: 06/08/95

% 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	39.5	B		P
7440-36-0	Antimony	1.9	U		P
7440-38-2	Arsenic	10.3			P
7440-39-3	Barium	462			P
7440-41-7	Beryllium	0.17	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	U		P
7440-50-8	Copper	5.6	B		P
7439-89-6	Iron	2270			P
7439-92-1	Lead	1.3	B		P
7439-95-4	Magnesium	69800			P
7439-96-5	Manganese	605			P
7439-97-6	Mercury				
7439-98-7	Molybdenum	0.93	B		P
7440-02-0	Nickel	1.4	B		P
7440-09-7	Potassium	2790	B	E	P
7782-49-2	Selenium	3.5	U		P
7440-22-4	Silver	0.50	U		P
7440-23-5	Sodium	60100			P
7440-28-0	Thallium	1.5	U		P
7440-62-2	Vanadium	0.70	U		P
7440-66-6	Zinc	42.8			P

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

7

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.: MF006

Matrix (soil/water): WATER Lab Sample ID: 06125-04T

Level (low/med): LOW Date Received: 06/08/95

% 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	33.4	B		P
7440-36-0	Antimony	1.9	U		P
7440-38-2	Arsenic	10.6			P
7440-39-3	Barium	470			P
7440-41-7	Beryllium	0.17	B		P
7440-43-9	Cadmium	0.10	U		P
7440-70-2	Calcium	155000			P
7440-47-3	Chromium	1.0	U		P
7440-48-4	Cobalt	0.40	U		P
7440-50-8	Copper	2.7	B		P
7439-89-6	Iron	2400			P
7439-92-1	Lead	1.3	U		P
7439-95-4	Magnesium	70300			P
7439-96-5	Manganese	618			P
7439-97-6	Mercury				
7439-98-7	Molybdenum	0.80	U		P
7440-02-0	Nickel	1.3	U		P
7440-09-7	Potassium	2710	B	E	P
7782-49-2	Selenium	3.5	U		P
7440-22-4	Silver	0.50	U		P
7440-23-5	Sodium	64100			P
7440-28-0	Thallium	1.5	U		P
7440-62-2	Vanadium	0.70	U		P
7440-66-6	Zinc	34.6			P

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

8

ENVIROFORMS/INORGANIC CLP

SAMPLE NO.

1

INORGANIC ANALYSIS DATA SHEET

SP412D

Lab Name: ANAMETRIX INC Contract: 000000

Lab Code: ANAMET Case No.: 0235 SAS No.: 000000 SDG No.: MF006

Matrix (soil/water): WATER Lab Sample ID: 06125-06D

Level (low/med): LOW Date Received: 06/08/95

% 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	37.9	B		P
7440-36-0	Antimony	1.9	U		P
7440-38-2	Arsenic	4.8	B		P
7440-39-3	Barium	432			P
7440-41-7	Beryllium	0.15	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	0.62	B		P
7440-50-8	Copper	3.3	B		P
7439-89-6	Iron	124			P
7439-92-1	Lead	1.3	U		P
7439-95-4	Magnesium	69600			P
7439-96-5	Manganese	514			P
7439-97-6	Mercury				
7439-98-7	Molybdenum	0.80	U		P
7440-02-0	Nickel	2.6	B		P
7440-09-7	Potassium	2720	B	E	P
7782-49-2	Selenium	3.5	U		P
7440-22-4	Silver	0.50	U		P
7440-23-5	Sodium	52500			P
7440-28-0	Thallium	1.5	U		P
7440-62-2	Vanadium	0.70	U		P
7440-66-6	Zinc	53.4			P

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

9

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.: MF006

Matrix (soil/water): WATER Lab Sample ID: 06125-06T

Level (low/med): LOW Date Received: 06/08/95

% 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	50.2			P
7440-36-0	Antimony	5.2	B		P
7440-38-2	Arsenic	5.0	B		P
7440-39-3	Barium	440			P
7440-41-7	Beryllium	0.49	B		P
7440-43-9	Cadmium	0.11	B		P
7440-70-2	Calcium	149000			P
7440-47-3	Chromium	1.0	U		P
7440-48-4	Cobalt	3.5	B		P
7440-50-8	Copper	5.6	B		P
7439-89-6	Iron	128			P
7439-92-1	Lead	1.3	U		P
7439-95-4	Magnesium	69300			P
7439-96-5	Manganese	511			P
7439-97-6	Mercury				
7439-98-7	Molybdenum	15.0			P
7440-02-0	Nickel	5.7	B		P
7440-09-7	Potassium	2790	B	E	P
7782-49-2	Selenium	3.5	U		P
7440-22-4	Silver	0.50	U		P
7440-23-5	Sodium	65500			P
7440-28-0	Thallium	1.5	U		P
7440-62-2	Vanadium	3.5	B		P
7440-66-6	Zinc	59.3			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.

NSB01T

Lab Name: ANAMETRIX INC Contract: 000000

Lab Code: ANAMET Case No.: 0235 SAS No.: 000000 SDG No.: MF006

Matrix (soil/water): WATER Lab Sample ID: 06125-07T

Level (low/med): LOW Date Received: 06/08/95

% 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	121			P
7440-36-0	Antimony	1.9	U		P
7440-38-2	Arsenic	3.6	B		P
7440-39-3	Barium	30.2	B		P
7440-41-7	Beryllium	0.18	B		P
7440-43-9	Cadmium	0.10	U		P
7440-70-2	Calcium	145000			P
7440-47-3	Chromium	1.0	U		P
7440-48-4	Cobalt	0.40	B		P
7440-50-8	Copper	13.1	B		P
7439-89-6	Iron	151			P
7439-92-1	Lead	4.5			P
7439-95-4	Magnesium	62000			P
7439-96-5	Manganese	83.3			P
7439-97-6	Mercury				
7439-98-7	Molybdenum	11.5			P
7440-02-0	Nickel	2.1	B		P
7440-09-7	Potassium	5080		E	P
7782-49-2	Selenium	5.9			P
7440-22-4	Silver	0.50	U		P
7440-23-5	Sodium	46700			P
7440-28-0	Thallium	1.5	U		P
7440-62-2	Vanadium	2.8	B		P
7440-66-6	Zinc	66.8			P

Color Before: COLORLESS Clarity Before: CLOUDY Texture:

Color After: COLORLESS Clarity After: CLOUDY Artifacts:

Comments:

FORM I - IN (ILM02.1)

ToxScan Inc.

42 Hangar Way
Watsonville, CA 95076
(408) 724-4522
FAX (408) 724-3188

LABORATORY NUMBER_____

TO: FAX #: 303 295 - 2818

ATTN: Jean Barranco

COMPANY: PRC Environmental

CITY: Denver

REFERENCE TO: Bioassay

FROM: Ray Markel

NUMBER OF PAGES (INCLUDING COVER PAGE) 4

- IF YOU DO NOT RECEIVE ALL PAGES, PLEASE PHONE (408) 724-4522 AND SPEAK TO THE OPERATOR SIGNED BELOW.

SPECIAL INSTRUCTIONS

Jean- Here is faxed ~~copy~~ copy of the 96 hr. bioassay performed. We will be sending the report to you via mail today. Please call if there are any questions. -Deborah

OUR FASCIMILE # IS (408) 724-3188

OPERATOR DJC TIME_____ DATE 6/16/95

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

16 June, 1995

ATTN: Jean Barranco

A Static acute bioassay was performed on two water samples received from PRC using the 3-spined Stickleback (*Gasterosteus aculeatus*). The samples were collected by PRC personnel and delivered to ToxScan's Watsonville laboratory where the samples were assigned ToxScan number T-12274. The water was tested using 100%, and 0% (control) concentrations of the samples 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 June, 1995
Date Started:	9 June, 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

96 h Acute Toxicity Test Data Sheet

Lab #	T-12274	Start Date	9 June 1995
Client	PRC Environmental Management, Inc.	End Date	13 June 1995
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	8.1	8.5	8.0
						DO	8.6	7.2	6.8	6.6	6.4
						Temp	20.7	19.0	20.4	19.8	20.8
Control	10	10	10	10	10	pH	8.4	8.1	8.1	8.0	7.9
						DO	8.5	7.1	6.8	6.8	6.3
						Temp	20.8	19.0	20.4	20.0	20.8
-06	10	10	10	10	10	pH	7.7	8.0	8.3	8.1	8.1
						DO	7.2	6.8	6.7	6.5	6.1
						Temp	20.5	19.0	20.4	20.1	20.7
-06	10	10	10	10	10	pH	7.7	8.0	8.3	8.1	8.2
						DO	6.9	6.9	7.1	7.0	6.5
						Temp	20.3	19.0	20.4	20.1	20.6
-12	10	10	10	10	10	pH	7.5	8.0	8.0	7.8	7.9
						DO	7.4	7.0	6.8	6.6	6.1
						Temp	19.8	19.0	20.4	20.3	20.4
-12	10	10	10	10	10	pH	7.5	8.0	8.0	7.8	7.9
						DO	7.3	6.8	6.4	6.0	6.0
						Temp	19.7	19.0	20.4	20.4	20.5

Hardness

Control-initial	240	Sample -06-initial	660	Sample -12-initial	650
Control-final	230	Sample -06-final	660	Sample -12-final	500

Alkalinity

Control-initial	120	Sample -06-initial	340	Sample -12-initial	620
Control-final	115	Sample -06-final	310	Sample -12-final	480

Conductivity

Control-initial	1200	Sample -06-initial	1200	Sample -12-initial	1130
Control-final	1200	Sample -06-final	1200	Sample -12-final	970

FISH WEIGHT AND LENGTH ANALYSIS SHEET

TEST SPECIFICATIONS:

Date Started:	9 June 1995
Date Completed:	13 June 1995
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 GAS050995

Fish No.	Weight (g)	Length (mm)
1	0.4309	38
2	0.6735	41
3	0.5763	42
4	0.3492	35
5	0.4824	39
6	0.5304	40
7	0.4212	36
8	0.5216	40
9	0.3225	38
10	0.3121	38
Total	4.620	387.0
Mean	0.4620	38.7