N00296.002218
MOFFETT FIELD
SSIC NO. 5090.3

5090
Ser 1843.2/5006
April 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 MEASURE (SCM) SELF-MONITORING REPORT FOR DECEMBER 12, 1994 TO JANUARY 8, 1995

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 December 12, 1994 to January 8, 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 Building 6 and Building 12 treatment systems ran, for the most part, continuously during this reporting period. The Building 45 system is off line and 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 this reporting period. 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 consistent with influent levels and only slightly exceeded the discharge limit. The effluent zinc levels were similar to the influent total zinc level of 138 micrograms per liter, which also exceeded the discharge limit. The Building 12 system met discharge limits for inorganic constituents. All fish toxicity tests showed the treatment systems' effluent 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 the treatment system effluents. Details of all treatment system discharge limit exceedences and all sample data are included as an attachment.

The constituents that exceeded discharge limits during this operating period 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.

5090
Ser 1843.2/5006

The effluent zinc concentrations at the Building 6 system have been consistently higher than influent zinc concentrations. However, the effluent concentrations have been inconsistent, the amount of increase through the system has been inconsistent, and there is no apparent affect on receiving waters. 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.

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 Installation Coordinator

Encl:
(1) Self-Monitoring Report for December 12, 1994 to January 8, 1995

Blind copy to:
PRC Environmental Management Inc. (Attn: Mark Kadnuck)
18, 1843, 18432, 18433
Admin. record
Chron, green
File: Moffett

N00296.002218
MOFFETT FIELD
SSIC NO. 5090.3

MOFFETT FEDERAL AIRFIELD SITE 9 SOURCE CONTROL MEASURES SELF-MONITORING REPORT FOR DECEMBER 12, 1994 TO JANUARY 8, 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: Dec. 12, 1994 - Jan. 8, 1995

System Data*	Bldg 45 System	Bldg 12 System	Bldg 6 System
Total Flow for Period (gal)	0	55294	67380
Influent pH	NA	7.3	7.7
Effluent pH	NA	7.6	7.8
Influent Temperature (C)	NA	21.8	21.1
Effluent Temperature (C)	NA	17.4	18

* 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: None.
Building 6: Repaired differential pressure gage for bag filters on 12/22. Repaired differential pressure controls for bag filters on 12/29.

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

Reporting Period: Dec. 12, 1994 - Jan. 8, 1995

TREATMENT SYSTEM
DISCHARGE LIMIT EXCEEDENCE SUMMARY

Sample ID	Analyte	Concentration (ug/L)	Discharge Limit (ug/L)
TS-S9-SP4-06	Se (tot)	5.3	5
TS-S9-SP4-06	Zn (tot)	165	110
TS-S9-SP4-06	Se (diss)	5.1	5
TS-S9-SP4-06	Zn (diss)	169	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
29642

5-1-95

12/12 - 1/8

Inchcape Testing Services
Anametrix Laboratories

FAX TRANSMITTAL COVER SHEET

TO: DATE: 1-13-95

NAME: Jean Barranco

COMPANY: PRC

FAX #: 303-295-2818

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NAME: Richard Jacobs

ITS - ANAMETRIX LABORATORIES
FAX : (408) 432 - 8198
PHONE : (408) 432 - 8192

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COMMENTS: CTO: 235 SDG: SP106
SITE-9 - PRC - 5DAYTAT
GC-VOA - 01, 02, 03, 04, 05, 06, 08

9501038

Inchcape Testing Services
Anametrix Laboratories

1961 Concourse Drive
Suite E
San Jose, CA 95131
Tel: 408-452-8192
Fax: 408-452-8198

METHOD 8010 / 601 REPORT FORM

Concentration (ug/L)

WORKORDER # 9501037B RJ 1-13-95 PROJECT (Client) ID: 0235

COMPOUND	Reporting Limits ug/L	Reporting Limits ug/Kg	SAMPLE I.D. #1 SD106	#2 SD306	#3 SD406	#4 SD112	#5 SD312
Chloromethane	1	1	ND	ND	ND	ND	ND
Bromomethane	0.5	1					
Dichlorodifluoromethane	1	1					
Vinyl Chloride	0.5	1				43	
Chloroethane	0.5	1				ND	
Methylene Chloride	1	1					
Trichlorofluoromethane	0.5	1					
1,1-Dichloroethene	0.5	1	23			6.3	
1,1-Dichloroethane	0.5	1	15			26	
cis-1,2-Dichloroethene	0.5	1	390			230	
trans-1,2-Dichloroethene	0.5	1	ND			28	
Chloroform	0.5	1				ND	
Trichlorotrifluoroethane	0.5	1	15				
1,2-Dichlorethane	0.5	1	ND				
1,1,1-Trichloroethane	0.5	1					
Carbon Tetrachloride	0.5	1					
Bromodichloromethane	0.5	1					
1,2-Dichloropropane	0.5	1					
trans-1,3-Dichloropropene	0.5	1					
Trichloroethene	0.5	1	1400				
1,1,2-Trichlorethane	0.5	1	ND				
cis-1,3-Dichloropropene	0.5	1					
Dibromochloromethane	0.5	1					
2-Chloroethylvinyl Ether	1	1					
Bromoform	0.5	1					
1,1,2,2-Tetrachloroethane	0.5	1					
Tetrachloroethene	0.5	1	150				
Chlorobenzene	0.5	1	ND				
1,3-Dichlorobenzene	0.5	1					
1,4-Dichlorobenzene	0.5	1					
1,2-Dichlorobenzene	0.5	1					
% Surrogate Recoveries	Surrogate #1		88%	83%	82%	90%	83%
	Surrogate #2		92%	92%	92%	90%	91%
	Surrogate #3		93%	96%	93%	96%	97%
Dilution Factor			1:50	1:1	1:1	1:10	1:1
Instrument #			HP15	HP15	HP15	HP15	HP15
Date Analyzed			1/12	1/12	1/12	1/12	1/12

ANALYST: [illegible] PRELIM RESULTS DATE: 1/13/95

cvr/01-20-94

Inchcape Testing Services
Anametrix Laboratories

1961 Concourse Drive
Suite E
San Jose, CA 95131
Tel: 408-452-8192
Fax: 408-452-8198

METHOD 8010 / 601 REPORT FORM

Concentration (ug/L)

WORKORDER # 9501038 RA 1-13-95 PROJECT (Client) ID: 0235

COMPOUND	Reporting Limits ug/L	Reporting Limits ug/Kg	SAMPLE I.D. SP4/2 #6	TB3-01 #8			
Chloromethane	1	1	ND	ND			
Bromomethane	0.5	1					
Dichlorodifluoromethane	1	1					
Vinyl Chloride	0.5	1					
Chloroethane	0.5	1					
Methylene Chloride	1	1					
Trichlorofluoromethane	0.5	1					
1,1-Dichloroethene	0.5	1					
1,1-Dichloroethane	0.5	1					
cis-1,2-Dichloroethene	0.5	1					
trans-1,2-Dichloroethene	0.5	1					
Chloroform	0.5	1					
Trichlorotrifluoroethane	0.5	1					
1,2-Dichlorethane	0.5	1					
1,1,1-Trichloroethane	0.5	1					
Carbon Tetrachloride	0.5	1					
Bromodichloromethane	0.5	1					
1,2-Dichloropropane	0.5	1					
trans-1,3-Dichloropropene	0.5	1					
Trichloroethene	0.5	1					
1,1,2-Trichlorethane	0.5	1					
cis-1,3-Dichloropropene	0.5	1					
Dibromochloromethane	0.5	1					
2-Chloroethylvinyl Ether	1	1					
Bromoform	0.5	1					
1,1,2,2-Tetrachloroethane	0.5	1					
Tetrachloroethene	0.5	1					
Chlorobenzene	0.5	1					
1,3-Dichlorobenzene	0.5	1					
1,4-Dichlorobenzene	0.5	1					
1,2-Dichlorobenzene	0.5	1	✓	✓			
% Surrogate Recoveries	Surrogate #1		85%	85%			
	Surrogate #2		92%	93%			
	Surrogate #3		92%	96%			
Dilution Factor			1:1	1:1			
Instrument #			AD15	AD15			
Date Analyzed			1/12	1/12			

ANALYST: [illegible] DATE: 1/13/95

PRELIM RESULTS

evr/01-20-94

Inchcape Testing Services
Anametrix Laboratories

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NAME: Jean Barranco

COMPANY: PRC

FAX #: (303) 295-2818

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NAME: Tracey Pham

ITS - ANAMETRIX LABORATORIES
FAX : (408) 383-7810
PHONE : (408) 432 - 8192

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COMMENTS: CTO : 0235 SDG : SP106
Site 9 - 5 days TAT
Metals : 9501038-01,-03,04,06 (Totals Dissolve
9501038-07 (Totals only)

CHAIN-OF-CUSTODY RECORD

DESTINATION LABORATORY

PROJECT NAME: MOFFETT SITE 9 SCM

PROJECT JOB #: 044-0235/RSC9C

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

SAMPLING TEAM #: N.A.

ANALYSES REQUIRED: VOC 8010; TPH gas 8015; TPH diesel; Total Metals; Diss Metals

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 diesel	Total Metals	Diss Metals					REMARKS
TB-59-SP1-06	1-5-95	1140	WATER	X		BUILDING 6 SP1	6x40ml, 2x1-liter Amber, 4x.5-liter Poly	P	P	U	P	B	2 vials w/ bubbles				1425 bbs 48 hrs DAY TAT
TB-59-SP3-06	1-5-95	1200	WATER	X		BUILDING 6 SP3	6x40ml, 2x1-liter Amber	P	P	U							
TB-59-SP4-06	1-5-95	1220	WATER	X		BUILDING 6 SP4	6x40ml, 2x1-liter Amber, 4x.5-liter Poly	P	P	U	P	B					
TB-59-SP1-12	1-5-95	1330	WATER	X		BUILDING 12 SP1	6x40ml, 2x1-liter Amber, 4x.5-liter Poly	P	P	U	P	B	2 vials w/ bubbles				
TB-59-SP3-12	1-5-95	1350	WATER	X		BUILDING 12 SP3	6x40ml, 2x1-liter Amber	P	P	U							
TB-59-SP4-12	1-5-95	1410	WATER	X		BUILDING 12 SP4	6x40ml, 2x1-liter Amber, 4x.5-liter Poly	P	P	U	P	B					
RW-59-NSB-01	1-5-95	1445	WATER	X		NASA SETTLING BASIN EFFLUENT	2x.5-liter Poly				P						
TB-01	1-5-95	1140	WATER	X		TRIP BLANK	2x40ml	P									

The number beside "G" and "C" indicates the number of containers.

	SIGNATURE	NAME (print)	COMPANY/TITLE	DATE	TIME
RELINQUISHED BY:	Steven Br	Steven Broering	PRC-EMC / Env. Sci.	1-6-95	1010
RECEIVED BY:	[illegible]	Benny S. Carrizosa	INCHCAPE TESTING SERVICES ANAMETRIX	1-6-95	1010
RELINQUISHED BY:	Benny S. Carrizosa	Benny S. Carrizosa	INCHCAPE TESTING SERVICES ANAMETRIX	1-6-95	1040
RECEIVED BY:	[illegible]	Maria Barajas	ITS - Anametrix	1/6/95	1040
RELINQUISHED BY:					
RECEIVED BY:					

REMARKS: Please phone if you have 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

PRELIM RESULTS

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.: SP106

Matrix (soil/water): WATER Lab Sample ID: 01038-07T

Level (low/med): LOW Date Received: 01/05/95

% 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	714			P
7440-36-0	Antimony	1.5	U		P
7440-38-2	Arsenic	2.7	U		P
7440-39-3	Barium	34.6	B		P
7440-41-7	Beryllium	0.23	B		P
7440-43-9	Cadmium	0.30	B		P
7440-70-2	Calcium	26500			P
7440-47-3	Chromium	3.5	B		P
7440-48-4	Cobalt	0.50	U		P
7440-50-8	Copper	11.7	B		P
7439-89-6	Iron	857			P
7439-92-1	Lead	15.0			P
7439-95-4	Magnesium	7610			P
7439-96-5	Manganese	31.3			P
7439-97-6	Mercury	0.10	U		CV
7439-98-7	Molybdenum	2.2	U		P
7440-02-0	Nickel	3.9	B		P
7440-09-7	Potassium	1080	B		P
7782-49-2	Selenium	2.1	U		P
7440-22-4	Silver	0.60	U		P
7440-23-5	Sodium	7270			P
7440-28-0	Thallium	2.0	U		P
7440-62-2	Vanadium	3.8	B		P
7440-66-6	Zinc	104		E	P

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

PRELIM RESULTS

FORM I - IN (ILM02.1)

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.: SP106

Matrix (soil/water): WATER Lab Sample ID: 01038-01D

Level (low/med): LOW Date Received: 01/05/95

% 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	28.6	B		P
7440-36-0	Antimony	1.5	U		P
7440-38-2	Arsenic	2.7	U		P
7440-39-3	Barium	24.9	B		P
7440-41-7	Beryllium	0.14	B		P
7440-43-9	Cadmium	0.20	U		P
7440-70-2	Calcium	185000			P
7440-47-3	Chromium	1.9	U		P
7440-48-4	Cobalt	0.50	U		P
7440-50-8	Copper	4.4	B		P
7439-89-6	Iron	17.1	U		P
7439-92-1	Lead	1.5	B		P
7439-95-4	Magnesium	62200			P
7439-96-5	Manganese	25.7			P
7439-97-6	Mercury	0.10	U		CV
7439-98-7	Molybdenum	2.2	U		P
7440-02-0	Nickel	1.8	U		P
7440-09-7	Potassium	2080	B		P
7782-49-2	Selenium	5.4			P
7440-22-4	Silver	0.60	U		P
7440-23-5	Sodium	63400			P
7440-28-0	Thallium	2.0	U		P
7440-62-2	Vanadium	2.3	B		P
7440-66-6	Zinc	43.8		E	P

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

PRELIM RESULTS

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.: SP106

Matrix (soil/water): WATER Lab Sample ID: 01038-01T

Level (low/med): LOW Date Received: 01/05/95

% 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	34.5	B		P
7440-36-0	Antimony	1.5	U		P
7440-38-2	Arsenic	2.7	U		P
7440-39-3	Barium	24.2	B		P
7440-41-7	Beryllium	0.20	B		P
7440-43-9	Cadmium	0.20	U		P
7440-70-2	Calcium	184000			P
7440-47-3	Chromium	1.9	U		P
7440-48-4	Cobalt	0.50	U		P
7440-50-8	Copper	85.2			P
7439-89-6	Iron	21.5	B		P
7439-92-1	Lead	30.5			P
7439-95-4	Magnesium	62100			P
7439-96-5	Manganese	26.4			P
7439-97-6	Mercury	0.10	U		CV
7439-98-7	Molybdenum	4.7	B		P
7440-02-0	Nickel	6.6	B		P
7440-09-7	Potassium	1860	B		P
7782-49-2	Selenium	4.5	B		P
7440-22-4	Silver	0.60	U		P
7440-23-5	Sodium	38100			P
7440-28-0	Thallium	2.0	U		P
7440-62-2	Vanadium	2.3	B		P
7440-66-6	Zinc	138		E	P

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

PRELIM RESULTS

PRELIM RESULTS

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.: SP106

Matrix (soil/water): WATER Lab Sample ID: 01038-04D

Level (low/med): LOW Date Received: 01/05/95

% 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	24.0	B		P
7440-36-0	Antimony	1.5	U		P
7440-38-2	Arsenic	9.8	B		P
7440-39-3	Barium	464			P
7440-41-7	Beryllium	0.16	B		P
7440-43-9	Cadmium	0.20	U		P
7440-70-2	Calcium	165000			P
7440-47-3	Chromium	1.9	U		P
7440-48-4	Cobalt	0.50	U		P
7440-50-8	Copper	0.51	B		P
7439-89-6	Iron	2480			P
7439-92-1	Lead	1.0	U		P
7439-95-4	Magnesium	70100			P
7439-96-5	Manganese	605			P
7439-97-6	Mercury	0.10	U		CV
7439-98-7	Molybdenum	2.2	U		P
7440-02-0	Nickel	1.8	U		P
7440-09-7	Potassium	3150	B		P
7782-49-2	Selenium	2.1	U		P
7440-22-4	Silver	0.60	U		P
7440-23-5	Sodium	53200			P
7440-28-0	Thallium	2.0	U		P
7440-62-2	Vanadium	0.52	B		P
7440-66-6	Zinc	46.3		E	P

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

PRELIM RESULTS

JAN-13-1995 15:14

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.: SP106

Matrix (soil/water): WATER Lab Sample ID: 01038-04T

Level (low/med): LOW Date Received: 01/05/95

% 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	33.0	B		P
7440-36-0	Antimony	1.5	U		P
7440-38-2	Arsenic	11.0			P
7440-39-3	Barium	503			P
7440-41-7	Beryllium	0.17	B		P
7440-43-9	Cadmium	0.20	U		P
7440-70-2	Calcium	156000			P
7440-47-3	Chromium	1.9	U		P
7440-48-4	Cobalt	0.50	U		P
7440-50-8	Copper	5.1	B		P
7439-89-6	Iron	2750			P
7439-92-1	Lead	1.4	B		P
7439-95-4	Magnesium	68900			P
7439-96-5	Manganese	645			P
7439-97-6	Mercury	0.10	U		CV
7439-98-7	Molybdenum	2.2	U		P
7440-02-0	Nickel	1.8	U		P
7440-09-7	Potassium	3140	B		P
7782-49-2	Selenium	2.1	U		P
7440-22-4	Silver	0.60	U		P
7440-23-5	Sodium	52300			P
7440-28-0	Thallium	2.0	U		P
7440-62-2	Vanadium	0.50	U		P
7440-66-6	Zinc	85.3		E	P

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

PRELIM RESULTS

FORM I - IN (ILM02.1)

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.: SP106

Matrix (soil/water): WATER Lab Sample ID: 01038-03D

Level (low/med): LOW Date Received: 01/05/95

% 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	31.9	B		P
7440-36-0	Antimony	1.5	U		P
7440-38-2	Arsenic	2.7	U		P
7440-39-3	Barium	25.7	B		P
7440-41-7	Beryllium	0.17	B		P
7440-43-9	Cadmium	0.20	U		P
7440-70-2	Calcium	182000			P
7440-47-3	Chromium	1.9	U		P
7440-48-4	Cobalt	0.50	U		P
7440-50-8	Copper	2.5	B		P
7439-89-6	Iron	58.7	B		P
7439-92-1	Lead	1.0	U		P
7439-95-4	Magnesium	61200			P
7439-96-5	Manganese	14.5	B		P
7439-97-6	Mercury	0.10	U		CV
7439-98-7	Molybdenum	2.2	U		P
7440-02-0	Nickel	5.9	B		P
7440-09-7	Potassium	1880	B		P
7782-49-2	Selenium	5.1			P
7440-22-4	Silver	0.60	U		P
7440-23-5	Sodium	37500			P
7440-28-0	Thallium	2.0	U		P
7440-62-2	Vanadium	1.3	B		P
7440-66-6	Zinc	169		E	P

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

PRELIM RESULTS

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.: SP106

Matrix (soil/water): WATER Lab Sample ID: 01038-03T

Level (low/med): LOW Date Received: 01/05/95

% 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	26.7	B		P
7440-36-0	Antimony	1.5	U		P
7440-38-2	Arsenic	2.7	U		P
7440-39-3	Barium	26.7	B		P
7440-41-7	Beryllium	0.18	B		P
7440-43-9	Cadmium	0.20	U		P
7440-70-2	Calcium	190000			P
7440-47-3	Chromium	1.9	U		P
7440-48-4	Cobalt	0.50	U		P
7440-50-8	Copper	2.4	B		P
7439-89-6	Iron	57.3	B		P
7439-92-1	Lead	1.0	U		P
7439-95-4	Magnesium	63800			P
7439-96-5	Manganese	14.8	B		P
7439-97-6	Mercury	0.10	U		CV
7439-98-7	Molybdenum	2.2	U		P
7440-02-0	Nickel	5.4	B		P
7440-09-7	Potassium	1950	B		P
7782-49-2	Selenium	5.3			P
7440-22-4	Silver	0.60	U		P
7440-23-5	Sodium	39400			P
7440-28-0	Thallium	2.0	U		P
7440-62-2	Vanadium	1.0	B		P
7440-66-6	Zinc	165		E	P

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

PRELIM RESULTS

ENVIROFORMS/INORGANIC CLP

1

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

SP412D

Lab Name: ANAMETRIX INC Contract: 000000

Lab Code: ANAMET Case No.: 0235 SAS No.: 000000 SDG No.: SP106

Matrix (soil/water): WATER Lab Sample ID: 01038-06D

Level (low/med): LOW Date Received: 01/05/95

% 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	26.1	B		P
7440-36-0	Antimony	1.5	U		P
7440-38-2	Arsenic	2.7	U		P
7440-39-3	Barium	432			P
7440-41-7	Beryllium	0.20	B		P
7440-43-9	Cadmium	0.20	U		P
7440-70-2	Calcium	161000			P
7440-47-3	Chromium	1.9	U		P
7440-48-4	Cobalt	0.62	B		P
7440-50-8	Copper	0.41	B		P
7439-89-6	Iron	157			P
7439-92-1	Lead	1.0	U		P
7439-95-4	Magnesium	69700			P
7439-96-5	Manganese	528			P
7439-97-6	Mercury	0.10	U		CV
7439-98-7	Molybdenum	2.2	U		P
7440-02-0	Nickel	5.1	B		P
7440-09-7	Potassium	3120	B		P
7782-49-2	Selenium	2.1	U		P
7440-22-4	Silver	0.60	U		P
7440-23-5	Sodium	52000			P
7440-28-0	Thallium	2.0	U		P
7440-62-2	Vanadium	0.90	B		P
7440-66-6	Zinc	33.9		E	P

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

PRELIM RESULTS

FORM I - IN (ILM02.1)

ENVIROFORMS/INORGANIC CLP

1

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

SP412T

Lab Name: ANAMETRIX INC Contract: 000000

Lab Code: ANAMET Case No.: 0235 SAS No.: 000000 SDG No.: SP106

Matrix (soil/water): WATER Lab Sample ID: 01038-06T

Level (low/med): LOW Date Received: 01/05/95

% 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	28.6	B		P
7440-36-0	Antimony	1.5	U		P
7440-38-2	Arsenic	2.7	U		P
7440-39-3	Barium	433			P
7440-41-7	Beryllium	0.19	B		P
7440-43-9	Cadmium	0.20	U		P
7440-70-2	Calcium	160000			P
7440-47-3	Chromium	1.9	U		P
7440-48-4	Cobalt	0.51	B		P
7440-50-8	Copper	11.1	B		P
7439-89-6	Iron	157			P
7439-92-1	Lead	1.9	B		P
7439-95-4	Magnesium	69500			P
7439-96-5	Manganese	528			P
7439-97-6	Mercury	0.10	U		CV
7439-98-7	Molybdenum	2.2	U		P
7440-02-0	Nickel	6.0	B		P
7440-09-7	Potassium	3130	B		P
7782-49-2	Selenium	2.1	U		P
7440-22-4	Silver	0.60	U		P
7440-23-5	Sodium	50900			P
7440-28-0	Thallium	2.0	U		P
7440-62-2	Vanadium	1.1	B		P
7440-66-6	Zinc	69.8		E	P

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

PRELIM RESULTS

FORM I - IN (ILM02.1)

Inchcape Testing Services
Anametrix Laboratories

FAX TRANSMITTAL COVER SHEET

TO: **DATE:** 1 / 12 / 95

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

ITS - ANAMETRIX LABORATORIES
FAX : (408) 383-7810
PHONE : (408) 432 - 8192

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

COMMENTS: CTO: 0235 SDG: SP106
Site 9 - 5 days TAT
TPH (BTEX): 950103B-01 → 06

CHAIN-OF-CUSTODY RECORD

DESTINATION Anametrix

PROJECT NAME: MOFFETT SITE 9 SCM

PROJECT JOB #: 044-0235/RSC9C

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

SAMPLING TEAM #: N.A

SAMPLE I.D.	DATE OF COLLECTION	TIME OF COLLECTION	SAMPLE MEDIUM (MATRIX)	GRAB	COMP	SAMPLE LOCATION	NUMBER/SIZE OF CONTAINERS	VOC 8010	TPH purg 8015	TPH extract 8015	Total Metal CLP	Diss Metal CLP						REMARKS
TB-S9-SP1-06	1-5-95	1140	WATER	X		BUILDING 6 SP1	6x40ml, 2x1-liter Amber, 4x5-liter Poly	P	P	U	P	B	2 vials w/ bubbles					1425 DAY TAT
TB-S9-SP3-06	1-5-95	1200	WATER	X		BUILDING 6 SP3	6x40ml, 2x1-liter Amber	P	P	U								
TB-S9-SP4-06	1-5-95	1220	WATER	X		BUILDING 6 SP4	6x40ml, 2x1-liter Amber, 4x5-liter Poly	P	P	U	P	B						
TB-S9-SP1-12	1-5-95	1330	WATER	X		BUILDING 12 SP1	6x40ml, 2x1-liter Amber, 4x5-liter Poly	P	P	U	P	B	2 vials w/ bubbles					
TB-S9-SP3-12	1-5-95	1350	WATER	X		BUILDING 12 SP3	6x40ml, 2x1-liter Amber	P	P	U								
TB-S9-SP4-12	1-5-95	1410	WATER	X		BUILDING 12 SP4	6x40ml, 2x1-liter Amber, 4x5-liter Poly	P	P	U	P	B						
RW-S9-NSB-01	1-5-95	1445	WATER	X		NASA SETTLING BASIN EFFLUENT	2x5-liter Poly				P							
TB-01	1-5-95	1190	WATER	X		TRIP BLANK	2x40 ml	P										

FIELD SAMPLE PREPARATION

PRELIM RESULTS

	SIGNATURE	NAME (print)	COMPANY/TITLE	DATE	TIME
RELINQUISHED BY:	Steven Broering	Steven Broering	PRC-EMI / Env. Sci.	1-6-95	1010
RECEIVED BY:	Benny S. Carrizosa	BENNY S. CARRIZOSA	INCHCAPE TESTING SERVICES ANAMETRIX	1-6-95	1010
RELINQUISHED BY:	Benny S. Carrizosa	BENNY S. CARRIZOSA	INCHCAPE TESTING SERVICES ANAMETRIX	1-6-95	1040
RECEIVED BY:	[illegible]	Maria Barajas	ITS - Anametrix	1/6/95	1040
RELINQUISHED BY:					
RECEIVED BY:					

REMARKS: Please phone if you have 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

Workorder # 95D1038 Client Project # 0235

ANAMETRIX ID #	01	02	03	04	05
CLIENT ID #	Sp106	Sp306	Sp406	Sp112	Sp312
CONCENTRATION UNITS	ug/L	→	→	→	→
BENZENE	<1.0	<1.0	<0.5	1200	<0.5
TOLUENE	↓	↓	↓	780	↓
ETHYLBENZENE	↓	3.9	↓	1300	↓
XYLENES	↓	17	↓	1400	↓
GASOLINE	770 (Z)	<100	<50	17000	<50
% SURROGATE RECOVERY	93%	103%	105%	92%	106%
INSTRUMENT #	HP8	→	→	→	→
DATE ANALYZED	1/10/95	1/11/95	1/10/95	1/11/95	1/10/95
RLMF *	2	→	1	100	1

Date: 1/11/95 Date: 1/11/95

Analyst: IS Reviewer: OS

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

* RLMF - Reporting Limit Multiplication Factor

/1330(/2913)

PRELIM RESULTS

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

TOTAL FUEL HYDROCARBON REPORT

TPHg with BTEX

Workorder # 9501038 Client Project # 0235

ANAMETRIX ID #	06				
CLIENT ID #	SP412				
CONCENTRATION UNITS	µg/L				
BENZENE	<0.5				
TOLUENE	↓				
ETHYLBENZENE	↓				
XYLENES	↓				
GASOLINE	<50				
% SURROGATE RECOVERY	97%				
INSTRUMENT #	HP 8				
DATE ANALYZED	1/10/95				
RLMF *	1				

Date: 1/11/95 Date: 1/11/95

Analyst: IS Reviewer: [illegible]

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

* RLMF - Reporting Limit Multiplication Factor

/1330(/2913)

PRELIM RESULTS

Inchcape Testing Services
Anametrix Laboratories

FAX TRANSMITTAL COVER SHEET

TO: DATE: 1-11-95

NAME: Jean Barranco

COMPANY: PRC

FAX #: 303-295-2818

TOTAL NUMBER OF PAGES (INCLUDING THIS COVER SHEET): 3

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FROM:

NAME: Richard Jacobs

ITS - ANAMETRIX LABORATORIES
FAX : (408) 432 - 8198
PHONE : (408) 432 - 8192

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COMMENTS: CTO: 0235 SDG: SP106
PRC - 5DAY TAT
TPH/g, d, k, JP-5 : -01, -02, -03, 04, -05, -06

9501038

CHAIN-OF-CUSTODY RECORD

DESTINATION Anametrix

PROJECT NAME: MOFFETT SITE 9 SCM

PROJECT JOB #: 044-0235/RSC90

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

SAMPLING TEAM #: N.A

ANALYSES REQUIRED — FIELD SAMPLE PREPARATION

	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 extractable	Total Metals	Diss Metals						REMARKS
1	TB-59-SP1-06	1-5-95	1140	WATER	X		BUILDING 6 SP1	6x40ml, 2x1-liter Amber, 4x5-liter Poly	P	P	U	P	B						5 DAY TAT
2	TB-59-SP3-06	1-5-95	1200	WATER	X		BUILDING 6 SP3	6x40ml, 2x1-liter Amber	P	P	U								
3	TB-59-SP4-06	1-5-95	1220	WATER	X		BUILDING 6 SP4	6x40ml, 2x1-liter Amber, 4x5-liter Poly	P	P	U	P	B						
4	TB-59-SP1-12	1-5-95	1330	WATER	X		BUILDING 12 SP1	6x40ml, 2x1-liter Amber, 4x5-liter Poly	P	P	U	P	B						
5	TB-59-SP3-12	1-5-95	1350	WATER	X		BUILDING 12 SP3	6x40ml, 2x1-liter Amber	P	P	U								
6	TB-59-SP4-12	1-5-95	1410	WATER	X		BUILDING 12 SP4	6x40ml, 2x1-liter Amber, 4x5-liter Poly	P	P	U	P	B						
7	RW-59-NSB-01	1-5-95	1445	WATER	X		NASA SETTLING BASIN EFFLUENT	2x5-liter Poly				P							
8	TB-01	1-5-95	1140	WATER	X		TRIP BLANK	2x40 ml	P										

Laboratory Blank Analysis — Sample Analysis
The number zero is "0" and the letter o is "o".

PRELIM RESULTS

	SIGNATURE	NAME (print)	COMPANY/TITLE	DATE	TIME
RELINQUISHED BY:	Steven Br	Steven Broering	PRC-EMI / Env. Sci.	1-6-95	1010
RECEIVED BY:	Benny S. Carrizosa	Benny S. Carrizosa	INCHCAPE TESTING SERVICES ANAMETRIX	1-6-95	1010
RELINQUISHED BY:	Benny S. Carrizosa	Benny S. Carrizosa	INCHCAPE TESTING SERVICES ANAMETRIX	1-6-95	1040
RECEIVED BY:	[illegible]	Maria Barajas	TTS - Anametrix	1/6/95	1040
RELINQUISHED BY:					
RECEIVED BY:					

REMARKS: Please phone if you have 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

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 # 9501038 Client PRC

Date Extracted 1/09/95 Project # 0235

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

ANAMETRIX ID #	CLIENT ID #	DATE ANALYZED	REPORTING LIMIT	AMOUNT FOUND ppb / ppm Diesel	Mo	Kerosene	JP-C	% SURROGATE RECOVERY
-1	SP106	01/10/95	100	ND	ND	ND	ND	94 %
-2	SP306	↓	100	ND	ND	ND	ND	103 %
-3	SP406	↓	100	ND	ND	ND	ND	94 %
-4	SP112	↓	100	J 62	ND	ND	2400	85 %
-5	SP312	↓	100	ND	ND	ND	ND	93 %
-6	SP412	↓	100	ND	ND	ND	ND	86 %
BJ0911E9	Method Blank	↓	100	ND	ND	ND	ND	98 %

Date: 01/11/95 Date:

Analyst: ARP Reviewer:

METHODS PERFORMED ARE THOSE SPECIFIED BY TRIREGIONAL GUIDELINES.

PRELIM RESULTS

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

CITY:

REFERENCE TO:

FROM: Roy 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

OUR FASCIMILE # IS (408) 724-3188

OPERATOR RM TIME 1/16/95 DATE 3PM

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

11 January, 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-11631. 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 January, 1995
Date Started:	6 January, 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.

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

96 h Acute Toxicity Test Data Sheet

Lab #	T-11631	Start Date	6 January 1995
Client	PRC Environmental Management, Inc.	End Date	10 January 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	8.0	7.8	8.0
						DO	9.0	7.2	6.8	7.1	8.0
						Temp	19.7	20.2	20.1	20.5	20.3
Control	10	10	10	10	10	pH	8.4	8.0	7.9	7.8	8.0
						DO	9.0	6.9	6.5	6.8	7.4
						Temp	19.8	20.3	20.1	20.5	20.4
-06	10	10	10	10	10	pH	7.7	8.0	8.2	8.0	8.3
						DO	8.4	6.8	6.5	6.8	8.0
						Temp	19.4	20.3	20.2	20.6	20.5
-06	10	10	10	10	10	pH	7.7	8.0	8.2	8.0	8.3
						DO	8.4	6.6	5.9	6.3	7.9
						Temp	19.4	20.4	20.2	20.6	20.6
-12	10	10	10	10	10	pH	7.5	8.0	8.0	7.8	8.1
						DO	7.8	6.8	6.5	6.8	7.9
						Temp	19.6	20.3	20.2	20.5	20.4
-12	10	10	10	10	10	pH	7.5	8.0	8.0	7.6	8.1
						DO	7.8	6.5	5.7	5.3	8.2
						Temp	19.6	20.4	20.3	20.6	20.6

Hardness

Control-initial	225	Sample -06-initial	670	Sample -12-initial	635
Control-final	195	Sample -06-final	710	Sample -12-final	520

Alkalinity

Control-initial	115	Sample -06-initial	340	Sample -12-initial	630
Control-final	124	Sample -06-final	360	Sample -12-final	510

Conductivity

Control-initial	1100	Sample -06-initial	1160	Sample -12-initial	1170
Control-final	805	Sample -06-final	1175	Sample -12-final	930

* Aeration initiated on all test containers

FISH WEIGHT AND LENGTH ANALYSIS SHEET

TEST SPECIFICATIONS:

Date Started:	6 January 1995
Date Completed:	10 January 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 Gas121394

Fish No.	Weight (g)	Length (mm)
1	0.5701	42
2	0.6219	39
3	0.5263	39
4	0.4897	38
5	0.3529	36
6	0.4081	39
7	0.4986	36
8	0.3998	37
9	0.5858	40
10	0.4747	38
Total	4.928	384
Mean	0.4928	38.4