

RECEIVED

9:39 am, Jan 16, 2009

Alameda County
Environmental Health

**Technical Report
Treatment System Discharge to EBMUD Sewer
For Permit No. 50638151
November 16, 2008 through January 15, 2009**

**The Former Glovatorium Facility
3820 Manila Avenue
Oakland, California**

January 14, 2009

Project 2515

Prepared for:

**Loeb & Loeb LLP
10100 Santa Monica Boulevard, Suite 2200
Los Angeles, California 90067-4164**



ENVIRONMENTAL ENGINEERING, INC.

6620 Owens Drive Suite A Pleasanton CA 94588 Ph: 925.734.6400 F: 925.734-6401 www.somaenv.com

Certification Statement

Stuart Depper
Name

Responsible Party
Title

3820 Manila Avenue
Street Address

Oakland
City

94609
Zip

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that the qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.


Signature

1-14-09
Date

January 14, 2009

Ms. Audrey Comeaux
East Bay Municipal Utility District
P. O. Box 24055
Oakland, CA 94623-1055

Re: 3820 Manila Avenue, Oakland, CA
Wastewater Discharge Permit No. 50638151

Dear Ms. Comeaux:

As you requested, enclosed is SOMA's "Technical Report Treatment System Discharge to EBMUD Sewer November 16, 2008 through January 15, 2009" for the subject permit. This report has been uploaded to the State's GeoTracker database.

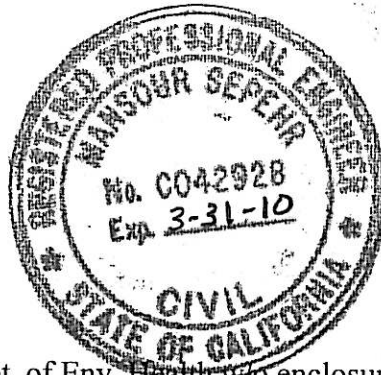
Thank you for your time in reviewing our report. If you have any questions or comments, please call me at (925) 734-6400.

Sincerely,



Mansour Sepehr, Ph.D., PE
Principal Hydrogeologist

Enclosure



cc: Mr. Jerry Wickham, Alameda County Dept. of Env. Health w/o enclosure
Mr. Albert M. Cohen, LOEB&LOEB LLP w/enclosure

CERTIFICATION

SOMA Environmental Engineering, Inc. has prepared this report for the Law Offices of Loeb & Loeb LLP, to comply with East Bay Municipal Utility District requirements for discharge of extracted and treated groundwater resulting from cleanup of groundwater using Multi-Phase Extraction technology.



Mansour Sepehr, PhD, PE
Principal Hydrogeologist

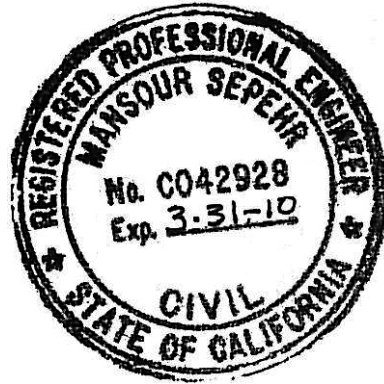


TABLE OF CONTENTS

CERTIFICATION	i
LIST OF TABLES	ii
LIST OF APPENDICES	ii
1. INTRODUCTION.....	1
2. MULTI-PHASE EXTRACTION PILOT TESTING AND TREATMENT SYSTEM OPERATION.....	1
3. CONCLUSIONS AND RECOMMENDATIONS	1

LIST OF TABLES

Table 1:	Total Volume of Water Treated, Operational Data, and Effluent and GAC-1 Analytical Results
----------	--

LIST OF APPENDICES

Appendix A:	Laboratory Results and Chain of Custody Forms for the Treatment System
Appendix B:	Log of Totalizer Readings

1. INTRODUCTION

SOMA Environmental Engineering, Inc. (SOMA) has prepared this report for the Law Offices of Loeb & Loeb LLP on behalf of their client, the owners of the subject property. The property, the former Glovatorium, is located at 3820 Manila Avenue (formerly known as 3815 Broadway), Oakland, California.

This report presents a record of wastewater discharged from the remediation system located at 3815 Broadway, Oakland, California into the East Bay Municipal Utility District (EBMUD) sewer system for the reporting period of November 16, 2008 through January 15, 2009. The remediation system was operated by SOMA Environmental Engineering, Inc. (SOMA).

2. MULTI-PHASE EXTRACTION PILOT TESTING AND TREATMENT SYSTEM OPERATION

SOMA began discharging treated groundwater from operation of Multi-Phase Extraction (MPE) pilot testing into the EBMUD sewer system on September 15, 2008. The extraction was discontinued in October 2008. Therefore no discharge occurred between October 22, 2008 and December 17, 2008.

Extraction was resumed on December 17, 2008. Therefore, during the reporting period of November 16, 2008 to January 15, 2009, approximately 5,125 gallons of groundwater were treated and discharged into the EBMUD sewer system during the MPE event.

The groundwater extracted during the MPE was treated by the treatment system consisting of one 1000-lb granular activated carbon unit followed by one 55 gallon carbon polishing vessel. SOMA conducted regular system maintenance to ensure compliance with the EBMUD wastewater discharge permit. As per discharge permit requirements, SOMA performed sampling of effluent from the treatment system on January 6, 2009. Appendix A includes laboratory reports for treatment system samples collected on January 6, 2009.

Table 1 shows the daily and total volume of effluent discharged into the EBMUD sewer system and laboratory analysis results of samples collected from effluent of the treatment system. Appendix B includes the log of totalizer readings as required by the discharge permit.

3. CONCLUSIONS AND RECOMMENDATIONS

From November 16, 2008, to January 15, 2009, approximately 5,125 gallons of groundwater was treated and discharged into the on-site sewer main;

1. The permit specifies an allowable discharge rate of 100 gallons per minute or approximately 144,000 gallons per day. During the above mentioned reporting period, approximately 370 gallons/day were discharged to the site sewer main.
2. Therefore, based on the discharge flow rate and low to non-detectable system effluent concentration levels, the remedial system has remained in compliance with the EBMUD permit conditions.

TABLE 1

Total Volume of Water Treated, Operational Data, and Effluent Analytical Results

Table 1
Total Volume of Water Treated, Operational Data,
and Laboratory Analytical Results for Effluent Samples
3815 Broadway, Oakland, California

Date	Effluent Totalizer Reading (gallons)	Lab Results For Effluent Samples											pH
		2- Butanone (ug/L)	Arsenic (ug/L)	Chromium (ug/L)	Copper (ug/L)	Iron (ug/L)	Lead (ug/L)	Mercury (ug/L)	Nickel (ug/L)	Silver (ug/L)	Zinc (ug/L)	Total Oil & Grease (HEM) (ug/L)	
9/15/2008	1,010	Started discharging to EBMUD Sewer											
9/16/2008	1,312	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
9/17/2008	1,417	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
9/18/2008	1,582	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
9/19/2008	2,071	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
9/22/2008	2,327	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
9/23/2008	2,440	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
10/9/2008	2,490	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
10/13/2008	2,490	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
10/14/2008	3,178	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
10/15/2008	3,378	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
10/16/2008	3,568	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
10/17/2008	3,842	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
10/20/2008	3,894	36	1.9	<1.0	<1.0	<50	<1.0	3.1	<1.0	<1.0	5.2	<4.7	7.6
10/22/2008	3,904	Discharge to EBMUD sewer system discontinued											
12/17/2008	3,904	Discharge to EBMUD sewer system resumed											
12/18/2008	4,461	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
12/19/2008	4,620	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
12/22/2008	4,620	No discharge on Dec 20 and 21, 2008											
12/29/2008	4,640	No discharge from Dec 23 to Dec 28, 2008											
12/30/2008	5,414	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
12/31/2008	5,632	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 1
Total Volume of Water Treated, Operational Data,
and Laboratory Analytical Results for Effluent Samples
3815 Broadway, Oakland, California

Effluent		Lab Results For Effluent Samples											
	Totalizer Reading	2-Butanone (ug/L)	Arsenic (ug/L)	Chromium (ug/L)	Copper (ug/L)	Iron (ug/L)	Lead (ug/L)	Mercury (ug/L)	Nickel (ug/L)	Silver (ug/L)	Zinc (ug/L)	Total Oil & Grease (HEM) (ug/L)	pH
Date	(gallons)												
No discharge from Jan 1 to Jan 4, 2009													
1/5/2009	5,632	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1/6/2009	6,374	<50	5.5	15	5.6	430	<1.0	<0.20	1.6	<1.0	5.3	4,910	7.1
1/7/2009	6,988	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1/8/2009	7,988	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1/9/2009	8,299	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1/12/2009	9,025	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1/13/2009	9,029	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Discharge Limits (ug/L)		100,000	2,000	1,000	5,000	100,000	2,000	50	5,000	1,000	5,000	100,000	>5.5

Notes:

ND, < : Not Detected above laboratory reporting limits

NA: Not Analyzed

Y: Sample exhibits fuel pattern which does not resemble standard

APPENDIX A

Laboratory Results and Chain of Custody Forms for the Treatment System

CHAIN OF CUSTODY

Curtis & Tompkins, Ltd.

Analytical Laboratory Since 1878
 2323 Fifth Street
 Berkeley, CA 94710
 (510)486-0900 Phone
 (510)486-0532 Fax

C&T LOGIN # 209077

Sampler: Jesse Acedillo

Analyses

Project No: 2514

Report To: Joyce Bobek

Project Name: 3815 Broadway, Oakland, CA

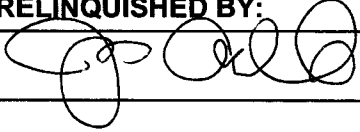
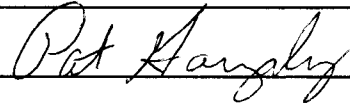
Company: SOMA Environmental

Turnaround Time: Standard

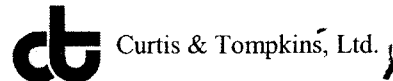
Telephone: 925-734-6400

Fax: 925-734-6401

Lab No.	Sample ID.	Sampling Date Time	Matrix			# of Containers	Preservative					EPA 200.8: As, Cd, Cr, Cu, Fr, Pb, Ni, Ag, Zn	245.1 Mercury	1664 HEM-SGT Oil and Grease	8260B VOCs	pH
			Soil	Water	Waste		HCL	H ₂ SO ₄	HNO ₃	ICE	NaOH					
1	effluent-composit	<u>1/6/9</u> <u>1530</u>	*			3-40 mL VOA	*				*					
		↓	*			500 mL Poly			*		*					
			*			1 L Amber	*				*					
			*			1 125 mL Poly					*					

Notes: EDF Output required	RELINQUISHED BY:	RECEIVED BY:
		
	<u>1/6/9</u> <u>1530</u> DATE/TIME	<u>1/6/9 15:30</u> DATE/TIME
	DATE/TIME	DATE/TIME
	DATE/TIME	DATE/TIME

COOLER RECEIPT CHECKLIST



Login # 209077 Date Received 1/6/09 Number of coolers 1
 Client SOMA Project 3815 BROADWAY Oakland CA
 Date Opened 1/6/09 By (print) PHUONG (sign) P. U
 Date Logged in 1/6/09 By (print) ↓ (sign) ↓

1. Did cooler come with a shipping slip (airbill, etc) _____ YES NO

2A. Were custody seals present? ... YES (circle) on cooler on samples NO
 How many _____ Name _____ Date _____

2B. Were custody seals intact upon arrival? _____ YES NO N/A

3. Were custody papers dry and intact when received? _____ YES NO

4. Were custody papers filled out properly (ink, signed, etc)? _____ YES NO

5. Is the project identifiable from custody papers? (If so fill out top of form) YES NO

6. Indicate the packing in cooler: (if other, describe) _____
 Bubble Wrap Foam blocks Bags None
 Cloth material Cardboard Styrofoam Paper towels

7. Temperature documentation:
 Type of ice used: Wet Blue/Gel None Temp(°C) 6.0

Samples Received on ice & cold without a temperature blank

Samples received on ice directly from the field. Cooling process had begun

8. Were Method 5035 sampling containers present? _____ YES NO
 If YES, what time were they transferred to freezer? _____

9. Did all bottles arrive unbroken/unopened? _____ YES NO

10. Are samples in the appropriate containers for indicated tests? _____ YES NO

11. Are sample labels present, in good condition and complete? _____ YES NO

12. Do the sample labels agree with custody papers? _____ YES NO

13. Was sufficient amount of sample sent for tests requested? _____ YES NO

14. Are the samples appropriately preserved? _____ YES NO N/A

15. Are bubbles > 6mm absent in VOA samples? _____ YES NO N/A

16. Was the client contacted concerning this sample delivery? _____ YES NO
 If YES, Who was called? _____ By _____ Date: _____

COMMENTS



Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878

2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 209077
ANALYTICAL REPORT

SOMA Environmental Engineering Inc. 6620 Owens Dr. Pleasanton, CA 94588	Project : 2514 Location : 3815 Broadway, Oakland, CA Level : II
---	---

<u>Sample ID</u>	<u>Lab ID</u>
EFFLUENT -COMPOSIT	209077-001

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature: 
Project Manager

Date: 01/13/2009

Signature: 
Senior Program Manager

Date: 01/14/2009

CASE NARRATIVE

Laboratory number: 209077
Client: SOMA Environmental Engineering Inc.
Project: 2514
Location: 3815 Broadway, Oakland, CA
Request Date: 01/06/09
Samples Received: 01/06/09

This data package contains sample and QC results for one water sample, requested for the above referenced project on 01/06/09. The sample was received cold and intact.

Volatile Organics by GC/MS (EPA 8260B):

EFFLUENT -COMPOSIT (lab # 209077-001) was diluted due to high hydrocarbons. No other analytical problems were encountered.

Metals (EPA 200.8 and EPA 245.1):

No analytical problems were encountered.

Hydrocarbon Oil & Grease (SGT-HEM) (EPA 1664A):

Matrix spikes were not performed for this analysis due to insufficient sample volume. No analytical problems were encountered.

pH (EPA 9040C):

No analytical problems were encountered.

Purgeable Organics by GC/MS

Lab #: 209077	Location: 3815 Broadway, Oakland, CA
Client: SOMA Environmental Engineering Inc.	Prep: EPA 5030B
Project#: 2514	Analysis: EPA 8260B
Field ID: EFFLUENT -COMPOSIT	Batch#: 146812
Lab ID: 209077-001	Sampled: 01/06/09
Matrix: Water	Received: 01/06/09
Units: ug/L	Analyzed: 01/09/09
Diln Fac: 5.000	

Analyte	Result	RL
Freon 12	ND	5.0
Chloromethane	ND	5.0
Vinyl Chloride	ND	2.5
Bromomethane	ND	5.0
Chloroethane	ND	5.0
Trichlorofluoromethane	ND	5.0
Acetone	ND	50
Freon 113	ND	10
1,1-Dichloroethene	ND	2.5
Methylene Chloride	ND	50
Carbon Disulfide	ND	2.5
MTBE	ND	2.5
trans-1,2-Dichloroethene	ND	2.5
Vinyl Acetate	ND	50
1,1-Dichloroethane	ND	2.5
2-Butanone	ND	50
cis-1,2-Dichloroethene	ND	2.5
2,2-Dichloropropane	ND	2.5
Chloroform	ND	2.5
Bromochloromethane	ND	2.5
1,1,1-Trichloroethane	ND	2.5
1,1-Dichloropropene	ND	2.5
Carbon Tetrachloride	ND	2.5
1,2-Dichloroethane	ND	2.5
Benzene	ND	2.5
Trichloroethene	ND	2.5
1,2-Dichloropropane	ND	2.5
Bromodichloromethane	ND	2.5
Dibromomethane	ND	2.5
4-Methyl-2-Pentanone	ND	50
cis-1,3-Dichloropropene	ND	2.5
Toluene	ND	2.5
trans-1,3-Dichloropropene	ND	2.5
1,1,2-Trichloroethane	ND	2.5
2-Hexanone	ND	50
1,3-Dichloropropane	ND	2.5
Tetrachloroethene	ND	2.5

ND= Not Detected

RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #: 209077	Location: 3815 Broadway, Oakland, CA
Client: SOMA Environmental Engineering Inc.	Prep: EPA 5030B
Project#: 2514	Analysis: EPA 8260B
Field ID: EFFLUENT -COMPOSIT	Batch#: 146812
Lab ID: 209077-001	Sampled: 01/06/09
Matrix: Water	Received: 01/06/09
Units: ug/L	Analyzed: 01/09/09
Diln Fac: 5.000	

Analyte	Result	RL
Dibromochloromethane	ND	2.5
1,2-Dibromoethane	ND	2.5
Chlorobenzene	ND	2.5
1,1,1,2-Tetrachloroethane	ND	2.5
Ethylbenzene	ND	2.5
m,p-Xylenes	ND	2.5
o-Xylene	ND	2.5
Styrene	ND	2.5
Bromoform	ND	5.0
Isopropylbenzene	ND	2.5
1,1,2,2-Tetrachloroethane	ND	2.5
1,2,3-Trichloropropane	ND	2.5
Propylbenzene	ND	2.5
Bromobenzene	ND	2.5
1,3,5-Trimethylbenzene	ND	2.5
2-Chlorotoluene	ND	2.5
4-Chlorotoluene	ND	2.5
tert-Butylbenzene	ND	2.5
1,2,4-Trimethylbenzene	ND	2.5
sec-Butylbenzene	ND	2.5
para-Isopropyl Toluene	ND	2.5
1,3-Dichlorobenzene	ND	2.5
1,4-Dichlorobenzene	ND	2.5
n-Butylbenzene	ND	2.5
1,2-Dichlorobenzene	ND	2.5
1,2-Dibromo-3-Chloropropane	ND	10
1,2,4-Trichlorobenzene	ND	2.5
Hexachlorobutadiene	ND	10
Naphthalene	ND	10
1,2,3-Trichlorobenzene	ND	2.5

Surrogate	%REC	Limits
Dibromofluoromethane	97	80-125
1,2-Dichloroethane-d4	109	80-137
Toluene-d8	100	80-120
Bromofluorobenzene	104	80-122

ND= Not Detected
 RL= Reporting Limit

Batch QC Report

Purgeable Organics by GC/MS			
Lab #:	209077	Location:	3815 Broadway, Oakland, CA
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2514	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC478776	Batch#:	146812
Matrix:	Water	Analyzed:	01/09/09
Units:	ug/L		

Analyte	Result	RL
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Acetone	ND	10
Freon 113	ND	2.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5

ND= Not Detected

RL= Reporting Limit

Batch QC Report

Purgeable Organics by GC/MS			
Lab #:	209077	Location:	3815 Broadway, Oakland, CA
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2514	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC478776	Batch#:	146812
Matrix:	Water	Analyzed:	01/09/09
Units:	ug/L		

Analyte	Result	RL
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	2.0
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	2.0
Naphthalene	ND	2.0
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	101	80-125
1,2-Dichloroethane-d4	112	80-137
Toluene-d8	102	80-120
Bromofluorobenzene	103	80-122

ND= Not Detected

RL= Reporting Limit

Metals Analytical Report

Lab #: 209077	Project#: 2514
Client: SOMA Environmental Engineering Inc.	Location: 3815 Broadway, Oakland, CA
Field ID: EFFLUENT -COMPOSIT	Sampled: 01/06/09
Lab ID: 209077-001	Received: 01/06/09
Matrix: Water	Prepared: 01/07/09
Units: ug/L	

Analyte	Result	RL	Diln	Fac	Batch#	Analyzed	Prep	Analysis
Arsenic	5.5	1.0	5.000		146739	01/07/09	EPA 200.8	EPA 200.8
Cadmium	ND	1.0	5.000		146739	01/07/09	EPA 200.8	EPA 200.8
Chromium	15	1.0	5.000		146739	01/07/09	EPA 200.8	EPA 200.8
Copper	5.6	1.0	5.000		146739	01/07/09	EPA 200.8	EPA 200.8
Iron	430	50	5.000		146739	01/07/09	EPA 200.8	EPA 200.8
Lead	ND	1.0	5.000		146739	01/08/09	EPA 200.8	EPA 200.8
Mercury	ND	0.20	1.000		146718	01/07/09	METHOD	EPA 245.1
Nickel	1.6	1.0	5.000		146739	01/07/09	EPA 200.8	EPA 200.8
Silver	ND	1.0	5.000		146739	01/07/09	EPA 200.8	EPA 200.8
Zinc	5.3	5.0	5.000		146739	01/07/09	EPA 200.8	EPA 200.8

ND= Not Detected
 RL= Reporting Limit

Batch QC Report

Metals Analytical Report			
Lab #:	209077	Location:	3815 Broadway, Oakland, CA
Client:	SOMA Environmental Engineering Inc.	Prep:	METHOD
Project#:	2514	Analysis:	EPA 245.1
Analyte:	Mercury	Diln Fac:	1.000
Type:	BLANK	Batch#:	146718
Lab ID:	QC478375	Prepared:	01/07/09
Matrix:	Filtrate	Analyzed:	01/07/09
Units:	ug/L		

Result	RL
ND	0.20

ND= Not Detected
 RL= Reporting Limit

Batch QC Report

Metals Analytical Report			
Lab #:	209077	Location:	3815 Broadway, Oakland, CA
Client:	SOMA Environmental Engineering Inc.	Prep:	METHOD
Project#:	2514	Analysis:	EPA 245.1
Analyte:	Mercury	Batch#:	146718
Matrix:	Filtrate	Prepared:	01/07/09
Units:	ug/L	Analyzed:	01/07/09
Diln Fac:	1.000		

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC478376	5.000	5.210	104	80-120		
BSD	QC478377	5.000	5.190	104	80-120	0	20

Batch QC Report

Metals Analytical Report			
Lab #:	209077	Location:	3815 Broadway, Oakland, CA
Client:	SOMA Environmental Engineering Inc.	Prep:	METHOD
Project#:	2514	Analysis:	EPA 245.1
Analyte:	Mercury	Batch#:	146718
Field ID:	ZZZZZZZZZZ	Sampled:	01/06/09
MSS Lab ID:	209089-002	Received:	01/06/09
Matrix:	Filtrate	Prepared:	01/07/09
Units:	ug/L	Analyzed:	01/07/09
Diln Fac:	1.000		

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
MS	QC478378	<0.03335	5.000	5.350	107	71-124		
MSD	QC478379		5.000	5.090	102	71-124	5	20

RPD= Relative Percent Difference

Batch QC Report

Metals Analytical Report			
Lab #:	209077	Location:	3815 Broadway, Oakland, CA
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 200.8
Project#:	2514	Analysis:	EPA 200.8
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC478457	Batch#:	146739
Matrix:	Water	Prepared:	01/07/09
Units:	ug/L	Analyzed:	01/07/09

Analyte	Result	RL
Arsenic	ND	1.0
Cadmium	ND	1.0
Chromium	ND	1.0
Copper	ND	1.0
Iron	ND	50
Lead	ND	1.0
Nickel	ND	1.0
Silver	ND	1.0
Zinc	ND	5.0

ND= Not Detected

RL= Reporting Limit

Batch QC Report

Metals Analytical Report			
Lab #:	209077	Location:	3815 Broadway, Oakland, CA
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 200.8
Project#:	2514	Analysis:	EPA 200.8
Field ID:	ZZZZZZZZZZ	Batch#:	146739
MSS Lab ID:	209083-007	Sampled:	01/06/09
Matrix:	Water	Received:	01/06/09
Units:	ug/L	Prepared:	01/07/09
Diln Fac:	5.000	Analyzed:	01/07/09

Type: MS Lab ID: QC478460

Analyte	MSS Result	Spiked	Result	%REC	Limits
Arsenic	16.14	100.0	106.4	90	79-120
Cadmium	1.294	100.0	90.30	89	77-120
Chromium	1,084	100.0	1,136 >LR	52 NM	74-120
Copper	113.1	100.0	195.2	82	66-126
Iron	73,950	10,000	79,950	60 NM	70-132
Lead	19.29	100.0	105.8	87	75-120
Nickel	176.0	100.0	256.8	81	69-125
Silver	2.837	100.0	87.60	85	61-120
Zinc	172.9	100.0	256.6	84	61-131

Type: MSD Lab ID: QC478461

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Arsenic	100.0	112.5	96	79-120	6	20
Cadmium	100.0	96.85	96	77-120	7	20
Chromium	100.0	1,166 >LR	82 NM	74-120	NC	20
Copper	100.0	210.5	97	66-126	8	29
Iron	10,000	88,950	150 NM	70-132	11	25
Lead	100.0	113.1	94	75-120	7	20
Nickel	100.0	279.8	104	69-125	9	20
Silver	100.0	93.90	91	61-120	7	20
Zinc	100.0	274.3	101	61-131	7	32

NC= Not Calculated

NM= Not Meaningful: Sample concentration > 4X spike concentration

>LR= Response exceeds instrument's linear range

RPD= Relative Percent Difference

Hydrocarbon Oil & Grease (SGT-HEM)

Lab #:	209077	Location:	3815 Broadway, Oakland, CA
Client:	SOMA Environmental Engineering Inc.	Prep:	METHOD
Project#:	2514	Analysis:	EPA 1664A
Analyte:	Hydrocarbon Oil & Grease	Sampled:	01/06/09
Field ID:	EFFLUENT -COMPOSIT	Received:	01/06/09
Matrix:	Water	Prepared:	01/09/09
Units:	mg/L	Analyzed:	01/12/09
Batch#:	146872		

Type	Lab ID	Result	RL	Diln Fac
SAMPLE	209077-001	4.91	4.70	0.9400
BLANK	QC479012	ND	5.00	1.000

ND= Not Detected
 RL= Reporting Limit

Batch QC Report

Hydrocarbon Oil & Grease (SGT-HEM)			
Lab #:	209077	Location:	3815 Broadway, Oakland, CA
Client:	SOMA Environmental Engineering Inc.	Prep:	METHOD
Project#:	2514	Analysis:	EPA 1664A
Analyte:	Hydrocarbon Oil & Grease	Batch#:	146872
Matrix:	Water	Prepared:	01/09/09
Units:	mg/L	Analyzed:	01/12/09
Diln Fac:	1.000		

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC479013	20.00	19.30	97	64-132		
BSD	QC479014	20.00	15.30	76	64-132	23	34

RPD= Relative Percent Difference

pH			
Lab #:	209077	Location:	3815 Broadway, Oakland, CA
Client:	SOMA Environmental Engineering Inc.	Prep:	METHOD
Project#:	2514	Analysis:	EPA 9040C
Analyte:	pH	Diln Fac:	1.000
Field ID:	EFFLUENT -COMPOSIT	Batch#:	146725
Lab ID:	209077-001	Sampled:	01/06/09 13:30
Matrix:	Water	Received:	01/06/09
Units:	SU	Analyzed:	01/07/09 10:20

Result	RL
7.1	1.0

Batch QC Report

pH			
Lab #:	209077	Location:	3815 Broadway, Oakland, CA
Client:	SOMA Environmental Engineering Inc.	Prep:	METHOD
Project#:	2514	Analysis:	EPA 9040C
Analyte:	pH	Diln Fac:	1.000
Field ID:	ZZZZZZZZZZ	Batch#:	146725
MSS Lab ID:	209089-006	Sampled:	01/06/09 10:45
Matrix:	Water	Received:	01/06/09
Units:	SU	Analyzed:	01/06/09 10:15

Type	Lab ID	MSS Result	Result	RL	RPD	Lim
SDUP	QC478413	8.780	8.780	1.000	0	20

RL= Reporting Limit




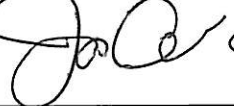

RPD= Relative Percent Difference

APPENDIX B

Log of Totalizer Readings







O & M Log
3815 Broadway, Oakland

O&M Checklist

Date & Time	12/17/8 1330	12/18/8 1000	12/19/8 0900	12/19/8 1500	12/22/8 0900	12/29/8 1000
Record Totalizer Reading	3,904	4,461	4,522	4,620	4,620	4,620
Check for water leaks in system	✓	✓	✓	✓	✓	✓
Carbon change-out performed	no	→				
Signature (Site Manager)						
Notes:	<div style="border: 1px solid black; height: 150px; width: 100%;"></div>					

O & M Log
3815 Broadway, Oakland

O&M Checklist

Date & Time	12/29/8 1100	12/30/8 0930	12/30/8 1330	12/31/8 1000	12/31/8 1500	1/5/9 0800
Record Totalizer Reading	4,640	5,414 1	5,414 1	5,577	5,632	5,632
Check for water leaks in system	✓	✓	✓	✓	✓	✓
Carbon change-out performed	no	—————→				
Signature (Site Manager)						
Notes:	<div style="border: 1px solid black; height: 150px; width: 100%;"></div>					

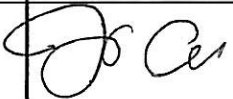

O & M Log
3815 Broadway, Oakland

O&M Checklist

Date & Time	1/6/9 1200	1/6/9 1400	1/7/9 0700	1/8/9 1000	1/9/9 1200	1/9/9 1500
Record Totalizer Reading	5,632	6,374	6,988	7,988	8,260	8,299
Check for water leaks in system	✓	✓	✓	✓	✓	✓
Carbon change-out performed	no	—————→				
Signature (Site Manager)	JA	JA	JA	JA	JA	JA
Notes:						

O & M Log
3815 Broadway, Oakland

O&M Checklist

Date & Time	1/12/9 1030	1/13/9 1030				
Record Totalizer Reading	9,025	9,029				
Check for water leaks in system	✓	✓				
Carbon change-out performed	no →					
Signature (Site Manager)						
Notes:						