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Alameda County  
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**Semi-Annual Self-Monitoring Report  
Oro Loma Sanitary District  
Special Wastewater Discharge Permit No. 09-03**

**15101 Freedom Avenue  
San Leandro, California**

**June 29, 2010**

**Project 2553**

**Prepared for**

**Mr. Mohammad Pazdel  
1770 Pistacia Court  
Fairfield, California**



ENVIRONMENTAL ENGINEERING, INC.

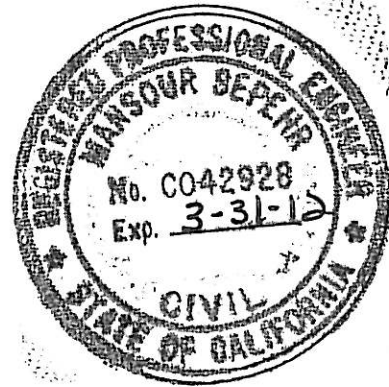
6620 Owens Drive Suite A Pleasanton CA 94588 Ph: 925.734.6400 F: 925.734-6401 [www.somaenv.com](http://www.somaenv.com)

## CERTIFICATION

SOMA Environmental Engineering, Inc. has prepared this report on behalf of Mr. Mohammad Pazdel for the property located at 15101 Freedom Avenue, San Leandro, California, to comply with Oro Loma Sanitary District Special Wastewater Discharge Permit requirements.



Mansour Sepehr, PhD, PE  
Principal Hydrogeologist



June 29, 2010

Mr. Rodney Smith  
Oro Loma Sanitary District  
2655 Grant Avenue  
San Lorenzo, California 94580

Re: Oro Loma Sanitary District  
Special Wastewater Discharge Permit # 09-03  
15101 Freedom Ave, San Leandro, California

Dear Mr. Smith:

This report fulfills quarterly requirements established by Oro Loma Sanitary District for discharge of groundwater to the sewer main at the above-referenced site.

#### Operation of the Groundwater Treatment System

SOMA received approval from Oro Loma Sanitary District to begin discharging treated groundwater into the on-site sewer main on May 4, 2009. This permit was renewed on May 5, 2010. A copy of Discharge Permit 09-03, is attached as Appendix A. The groundwater extraction and treatment system (GWETS) started operation on December 9, 2009. The GWETS treats groundwater extracted from the extraction wells EX-1 and EX-2 and also during the 5-day monthly multi-phase extraction (MPE) events. During this reporting period, MPE events were conducted in February, March, and June 2010.

The extracted groundwater is treated through two units of granular activated carbon (GAC). The first unit is a 1000 gallon tank filled with 2000 lb of coconut husk charcoal. The second unit, connected in series, is a 55 gallon tank filled with 200 lb of coconut husk charcoal. The second unit is also called polishing unit.

Since the startup of treatment system, approximately 852,158 gallons of extracted groundwater has been treated and discharged (as of June 22, 2010) through the remedial system to the site sewer main. The amount of groundwater discharged to date includes groundwater extracted during the 2010 MPE events. An additional 29,176 gallons of treated groundwater was discharged during the MPE events conducted in October and November 2009, prior to installation of a permanent groundwater treatment system and the totalizer on-site.

The first week sampling was conducted on October 8, 2009. Since then, monthly sampling of the treatment system effluent has been conducted as required by the discharge permit. Table 1 summarizes the laboratory analysis results for the

reporting period. All effluent concentrations have been within the permissible discharge limits. Table 1 summarizes the laboratory analysis results for the previous reporting period.

### Future Projected Issues

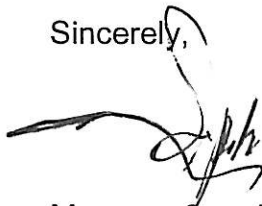
SOMA will implement the following action items.

- Continuing regular maintenance and monitoring of the remedial system.
- Periodic carbon change-outs based on system concentration levels.

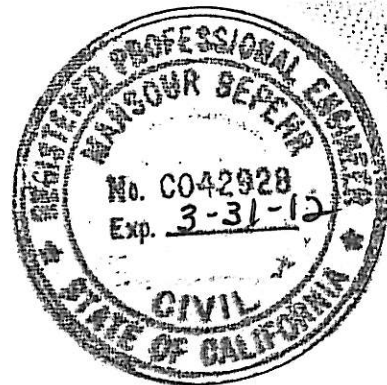
Since startup, operation of the remedial system has been effective.

If you have any questions or comments, please do not hesitate to call me at (925) 734-6400.

Sincerely,



Mansour Sepehr, PhD, PE  
Principal Hydrogeologist



cc: Mr. Mohammad Pazdel

# TABLE

**Table 1**  
**Effluent Chemical Analytical Results**  
**and Operational History of Remediation System**  
15101 Freedom Ave, San Leandro, CA

Date	Volume (gallons)	TPH-g (µg/L)	TPH-d (µg/L)	TPH-mo (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	COD (mg/L)	TSS (mg/L)	pH
<b>2009</b>											
8-Oct-2009	15,351	<50	120 <sup>Y</sup>	NA	NA	NA	NA	NA	NA	NA	NA
19-Nov-2009	8,287	<50	<50	<300	<0.5	<0.5	<0.5	<0.5	<10	<5	7.7
9-Dec-2009	0	Installation of GWETS									
16-Dec-2009	20,000	<50	<50	<300	<0.5	0.65 C	<0.5	0.84 C	<10	<5	7.4
<b>2010</b>											
18-Jan-2010	215,453	<50	<50	<300	<0.5	<0.5	<0.5	<0.5	<10	<5	7.4
15-Feb-2010	297,560	<50	<50	<300	<0.5	<0.5	<0.5	<0.5	11	<5	6.7
15-Mar-2010	475,245	<50	<50	<300	<0.5	<0.5	<0.5	<0.5	<10	<5.0	6.5
19-Apr-2010	621,180	<50	<50	<300	<0.5	<0.5	<0.5	<0.5	<10	8	6.6
17-May-2010	705,770	<50	<50	<300	<0.5	<0.5	<0.5	<0.5	<10	8	6.7
<b>16-Jun-2010</b>	<b>825,200</b>	<b>&lt;50</b>	<b>&lt;50</b>	<b>&lt;300</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>17</b>	<b>9</b>	<b>6.8</b>

Note:

NA: Not Available/Not Applicable

< : Less than Laboratory-reporting limit

In October and November 2009 discharge occurred only during MPE events

GWETS and totalizer installed in December 2009.

Week # 1 sampling conducted on Oct 8, 2009

C: Presence confirmed, but RPD between column exceeds 40%

Volume discharged during the October 2009 MPE event was 18,669 gallons

Volume discharged during the November 2009 MPE event was 10,507 gallons

Volume discharged during the December 2009 MPE event was 20,298 gallons

Volume discharged during the February 2010 MPE event was 6,339 gallons

Volume discharged during the March 2010 MPE event was 3,810 gallons

Volume discharged during the June 2010 MPE event was 15,600 gallons

# **APPENDIX A**

## Oro Loma Sanitary District Wastewater Discharge Permit

# **ORO LOMA SANITARY DISTRICT**

## **WASTEWATER DISCHARGE PERMIT**

Company Name: **SOMA ENVIRONMENTAL ENGINEERING, INC.**

Mailing Address: **6620 Owens Drive, Suite A  
Pleasanton, CA 94588**

Facility Address: **15101 Freedom Ave.  
San Leandro, CA 94578**

Discharge Description: **Treated Contaminated Ground Water**

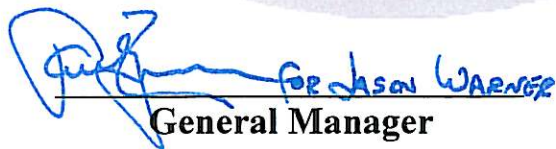
The above named company is authorized to discharge wastewater to the Oro Loma Sanitary District sewerage system subject to compliance with the District's Ordinance No. 39-9 (as amended) and any Federal or State regulations that apply, all permit conditions set forth in this permit, and payment of fees and charges when billed.

This permit is granted in accordance with the application filed on March 19, 2010 in the office of the Oro Loma Sanitary District and in conformity with specifications and information submitted to the District in support of the above referenced application.

Permit No.: **09-03**      Effective Date: **May 5, 2010**

Expiration Date: **May 4, 2012**

Approved By:

  
**General Manager**

3/29/10  
**Date**