



PACIFIC  
ENVIRONMENTAL  
GROUP, INC.

March 29, 1996  
Project 310-058.5A

Ms. Susan Keach  
Oro Loma Sanitary District  
2600 Grant Avenue  
San Lorenzo, California 94580

Re: Wastewater Discharge Permit 024 - March 1996 Sewer Report  
Unocal Service Station 5760  
376 Lewelling Boulevard at Usher Street  
San Lorenzo, California

Dear Ms. Keach:

On behalf of Unocal Corporation, Pacific Environmental Group, Inc. (PACIFIC) is operating a groundwater extraction (GWE) and treatment system at the site referenced above. This letter transmits treatment system operational data for the period between February 13 and March 11, 1996 (Table 1). Operational parameters are summarized below.

<i>Current System Status:</i>	<i>Non-Operational</i>
<i>Reporting Period:</i>	2/13/96 - 3/11/96
<i>Period Temperature:</i>	N/A
<i>Period pH reading:</i>	N/A
<i>Period Volume Discharged:</i>	53,340 gallons
<i>Total Volume Discharged:</i>	82,244 gallons
<i>Average Flow Rate:::</i>	1.4 gallons per minute
<i>Analytical Reports:</i>	N/A

The treatment system was found down on March 11, 1996 and left down; a carbon changeout was performed on March 25, 1996. Further repairs are required to the nut and bolt assembly, which was damaged, so the system currently remains down and no

March 29, 1996

Page 2

samples were taken in March 1996. PACIFIC hopes to complete all repairs to the GWE system in April, at which time the system will be restarted and sampled. Monthly analyses include chemical oxygen demand, pH, and total suspended solids, as well as total purgeable petroleum hydrocarbons (TPPH) and benzene, toluene, ethylbenzene, and xylenes (BTEX compounds).

If you have any questions regarding this project or require further information, please do not hesitate to call.

Sincerely,

**Pacific Environmental Group, Inc.**



Suzanne McClurkin-Nelson  
Staff Scientist

Attachments: Table 1 - Treatment System Metered Volume  
Table 2 - Groundwater Treatment System Analytical Data

cc: Ms. Tina Berry, Unocal Corporation  
Mr. Richard Hiatt, Regional Water Quality Control Board - S.F. Bay Region  
Ms. Amy Leech, Alameda County Health Care Services

**Table 1  
Treatment System Metered Volume**

Unocal Service Station 5760  
376 Lewelling Boulevard at Usher Street  
San Lorenzo, California

Date Sampled	Flow Meter Reading (gallons)	Flow Meter Net Volume (gallons)	Cumulative System Discharge To Date (gallons)	Average Total System Discharge (gpm)	Average Total System Discharge (gpd)
10/18/95 a	76	0	0	N/A	N/A
10/30/95	4,040	3,964	3,964	0.2	330
11/30/95	7,751	3,711	7,675	0.1	120
12/27/95	15,031	7,280	14,955	0.2	270
01/22/96	19,350	4,319	19,274	0.1	166
02/13/96	26,930	6,630	26,904	0.3	438
03/11/96 b	82,320	53,340	82,244	1.4	1,976

gpm = Gallons per minute  
gpd = Gallons per day  
N/A = Not applicable or not available

a. GWE continuous system operation began on October 18, 1995.  
b. GWE system found down 3/11/96; carbon chageout performed 3/25/96.

Table 2  
Groundwater Treatment System Analytical Data

Unocal Service Station 5760  
376 Lewelling Boulevard at Usher Street  
San Lorenzo, California

Date Sampled						Permit Compliance Parameters		
	TPPH (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (µg/L)	COD (mg/L)	TSS (mg/L)	pH (units)
<b>Influent Samples</b>								
10/30/95	33,000	480	1,400	900	7,100	N/A	N/A	N/A
11/30/95	15,000	190	310	210	3,700	N/A	N/A	N/A
12/27/95	1,100	16	23	<2.0	300	N/A	N/A	N/A
02/13/96 <sup>b</sup>	32,000	460	1,100	1,500	7,700	N/A	N/A	N/A
<b>Effluent Samples</b>								
10/04/95	<50	<0.50	<0.50	<0.50	<0.50	<20	<1.0	6.89 <sup>a</sup>
10/30/95	<50	<0.50	<0.50	<0.50	<0.50	NS	NS	NS
11/30/95	<50	<0.50	<0.50	<0.50	<0.50	NS	NS	NS
12/27/95	<50	<0.50	<0.50	<0.50	<0.50	NS	NS	7.05 <sup>a</sup>
02/13/96 <sup>b</sup>	<50	<0.50	<0.50	<0.50	<0.50	<20	9.0	6.83 <sup>a</sup>
TPPH = Total purgeable petroleum hydrocarbons µg/L = Micrograms per liter mg/L = Milligrams per liter N/A = Not applicable NS = Not sampled < = Denotes any potential concentrations fell below the shown detection limit for the analysis. a. The pH reading was measured by field instruments, not by laboratory analysis. b. GWE system was found down 1/17/96 and two pumps were pulled for repair and replaced 2/13/96.								