

PACIFIC  
ENVIRONMENTAL  
GROUP, INC.

September 26, 1995  
Project 330-109.5B

Ms. Sue Jenne  
East Bay Municipal Utility District  
P.O. Box 24055  
Oakland, California 94623-1055

Re: Wastewater Discharge Permit 502-62131  
ARCO Service Station 4931  
731 West MacArthur Boulevard  
Oakland, California

Dear Ms. Jenne:

On behalf of ARCO Products Company, Pacific Environmental Group, Inc. (PACIFIC) is performing environmental services at the site referenced above. As is noted under the Provisions section of the Wastewater Discharge Permit Application 502-62131, PACIFIC is sending this letter to notify you that the groundwater extraction and treatment (GWET) system at this site is currently non-operational.

The GWET system was shut down on July 5, 1995 due to low hydrocarbon concentrations. Although quarterly groundwater monitoring will continue at the site, PACIFIC intends to leave the GWET system down until site conditions indicate that groundwater extraction is a feasible and effective method of remediation. Treatment system analytical and operational data are presented in Table 1.

September 26, 1995  
Page 2

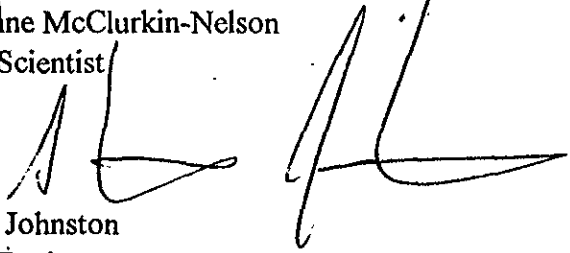
Please do not hesitate to call if you have any questions.

Sincerely,

**Pacific Environmental Group, Inc.**



Suzanne McClurkin-Nelson  
Staff Scientist



Steve Johnston  
Staff Engineer

Attachments: Table 1 - Groundwater Extraction System Performance Data

cc: Mr. Michael Whelan, ARCO Products Company  
Mr. Kevin Graves, Regional Water Quality Control Board - S.F. Bay Region  
Ms. Susan Hugo, Alameda County Health Care Services Agency

Table 1  
Groundwater Extraction System Performance Data

ARCO Service Station 4931  
731 West MacArthur Boulevard  
Oakland, California

Sample I.D.	Date Sampled	Totalizer Reading (gallons)	Net Volume (gallons)	Average Flow Rate (gpm)	TPH as Gasoline			Benzene			Primary Carbon Loading (percent)
					Influent Concentration (µg/L)	Net Removed (lbs)	Removed to Date (lbs)	Influent Concentration (µg/L)	Net Removed (lbs)	Removed to Date (lbs)	
INFL	06/28/94 a	4,120,050	N/A	0.9	740	0.000	1.61	38	0.000	0.38	2.0
INFL	07/15/94	4,143,150	23,100	0.9	ND	0.071	1.68	ND	0.004	0.38	2.1
INFL	08/18/94	4,175,310	32,160	0.7	NS	0.099	1.78	NS	0.005	0.39	2.2
INFL	09/30/94	4,243,295 b	67,985	1.1	NS	0.210	1.99	NS	0.011	0.40	2.5
INFL	10/31/94 c	4,311,280	67,985	1.5	ND	0.000	1.99	ND	0.000	0.40	2.5
INFL	11/04/94	4,330,500	19,220	3.3	56	0.004	2.00	ND	0.000	0.40	2.5
INFL	12/16/94	4,352,780	22,280	0.4	NS d	0.005	2.00	NS d	0.000	0.40	2.5
INFL	01/05/95	4,382,810	29,630	1.0	1,000	0.131	2.13	87	0.011	0.41	2.7
INFL	02/07/95	4,430,130 e	47,520	1.0 e	NS d	0.209	2.34	NS d	0.017	0.43	2.9
INFL	03/03/95	4,464,690 e	34,560	1.0 e	NS d	0.152	2.49	NS d	0.013	0.44	3.1
INFL	04/13/95	23 f	59,040	1.0 e	ND	0.246	2.74	ND	0.021	0.46	3.4
INFL	05/01/95	12,138	12,115	0.5	ND	0.000	2.74	ND	0.000	0.46	3.4
INFL	06/09/95	36,412	24,274	0.4	ND	0.000	2.74	ND	0.000	0.46	3.4
INFL	07/05/95	121,199 g	84,787	2.3	ND	0.000	2.74	0.59	0.000	0.46	3.4
REPORTING PERIOD: 3/03/95 - 7/15/95											
TOTAL POUNDS REMOVED:							2.74		0.46		
TOTAL GALLONS REMOVED:							0.45		0.06		
PERIOD POUNDS REMOVED:							0.25		0.02		
PERIOD GALLONS REMOVED:							0.04		0.00		
TOTAL GALLONS EXTRACTED:							4,643,696 (e)				
PERIOD GALLONS EXTRACTED:							180,216 (e)				
PERIOD AVERAGE FLOW RATE (gpm):							1.0 (e)				
PRIMARY BED CAPACITY REMAINING (%):							96.5				
TPH	= Total petroleum hydrocarbons										
gpm	= Gallons per minute										
µg/L	= Micrograms per liter										
lbs	= Pounds										
N/A	= Not available										
ND	= Not detected										
NS	= Not sampled										
	a. Data prior to October 1, 1994 provided by prior consultant.										
	b. No operational or analytical data available; totalizer reading, flow rate, and sample estimated from prior event July 15, 1994.										
	c. Pacific Environmental Group, Inc. became consultant for the site as of October 1, 1994.										
	d. Sampled quarterly; concentrations assumed from prior sampling event.										
	e. Totalizer broken; volume estimated using 1.0 gpm based on prior sampling event.										
	f. Totalizer replaced and re-calibrated on April 13, 1995.										
	g. System shut down for review, due to low concentrations and removal rates.										
Carbon loading assumes an 8% Isotherm.											
Mass removed is an approximation calculated using averaged concentrations.											
Pounds of hydrocarbons removed to date provided by prior consultant.											
See certified analytical reports for detection limits.											