

93 JUL 30 PM 2: 02

LETTER OF TRANSMITTAL

	Date:	July 29, 1993				
	То:	Ms. Jennifer Eberle Hazardous Materials Specialist Alameda County Health Care Services Agency 80 Swan Way, Room 200 Oakland, CA 94621				
	From:	Kimberly S. Lagomarsino				
Aqua Terra Technologies						
Consulting Engineers & Scientists	Subject:	Addendum to the Second Quarter Report - 1993 Dreyer's Grand Ice Cream 5929 College Avenue, Oakland, California				
2950 Buskirk Avenue Suite 120 Walnut Creek, CA		(ATT Project No. 919313)				
94596-2079						
FAX 934-0418	Transmitted herewith are the amended pages for the second quarter R					
510 934-4884		use replace Pages 1 and 2, and Table 1 with the new pages.				
	Please con	tact me with any questions you may have.				

William C. Collett, Dreyer's Ice Cream Rich Hiett, RWQCB cc:

919313/DK2/JE072993.lot



June 30, 1993

Ms. Jennifer Eberle Hazardous Materials Specialist Alameda County Health Care Services Agency 80 Swan Way, Room 200 Oakland, CA 94621

Subject:

t: Second Quarterly Report - 1993 Groundwater Monitoring Report & Subsurface Investigation Dreyer's Grand Ice Cream 5929 College Avenue, Oakland, California (Project No. 919313)

Dear Ms. Eberle:

Aqua Terra Technologies, Inc. (ATT) is pleased to present the results for groundwater monitoring activities conducted by ATT during the second quarter, 1993 for the subject site. A site location map is presented on Plate 1 (Attachment A). Monitoring activities during the reporting period included recording of groundwater level measurements, groundwater sample collection, and laboratory sample analysis.

BACKGROUND

One 1,000-gallon and one 8,000-gallon gasoline tank, two 4,000-gallon diesel tanks and one 2,000-gallon diesel tank were removed from the southeast corner of the property during December, 1989 (before construction of the current office building at the site). Two 1,000-gallon waste oil tanks were also removed from the southwest portions of the property in December, 1989. The approximate locations of the former underground tank excavations are shown on Plate 2.

QUARTERLY GROUNDWATER MONITORING

Groundwater Elevations and Flow Direction

Groundwater level measurements were recorded on April 20 and June 2, 1993. Groundwater elevation contours and flow directions for April 20, 1993 are shown on Plate 2 (Attachment A). Historic groundwater elevations are summarized in Table 1 (Attachment B).

During the second quarter 1993, groundwater table elevations ranged from

919313/DK2/2NDQRT93.OAK

Aqua Terra Technologies Consulting Engineers & Scientists

2950 Buskirk Avenue Suite 120 Walnut Creek, CA 94596-2079 FAX 934-0418 510 934-4884 Ms. Jennifer Eberle Hazardous Materials Specialist Alameda County Health Care Services Agency June 30, 1993 Page 2

171.40 feet above mean sea level (msl) to 176.89 feet above msl. The groundwater gradient on April 20, 1993 was approximately 0.035 feet per foot (ft/ft). The groundwater flow direction was predominantly towards the northwest.

Groundwater Sample Collection & Analytical Methods

On June 2, 1993 ATT field personnel collected a set of groundwater samples from all site monitoring wells (MW1, MW2, and MW3). The samples were transported with ATT chain-of-custody documentation to a California Department of Health Services (DHS) certified laboratory for analysis of total petroleum hydrocarbons as diesel and as gasoline (TPH/d and TPH/g, respectively), and of benzene, toluene, ethylbenzene, and total xylenes (BTEX). U.S. Environmental Protection Agency (EPA) Test Methods 3510/8015, 5030/8015, and 602 were used for analysis of TPH/d, TPH/g, and BTEX, respectively.

Groundwater Sample Analytical Results

The analytical results for groundwater samples collected from monitoring wells MW1, MW2, and MW3 to date, are summarized in Table 2 (Attachment B). Copies of the signed laboratory reports, chain-of-custody documentation, and sample collection records are presented in Attachment C.

Concentrations of TPH/d, TPH/g, and BTEX were below method detection limits in the sample collected from monitoring well MW1. TPH/d was not detected in the samples collected from wells MW2 and MW3.

Concentrations of TPH/g and BTEX, in the sample collected from well MW2, were 58,000 micrograms per liter (ug/L), and 50 ug/L, 68 ug/L, 70 ug/L, and 170 ug/L, respectively. Concentrations of TPH/g and BTEX, in the sample collected from well MW3, were 14,000 ug/L, and 11 ug/L, 13 ug/L, 16 ug/L, and 49 ug/L, respectively.

Planned Activities

Monthly groundwater level measurements will be recorded during the third quarter 1993. Groundwater samples will be collected quarterly from the

Table 1

Groundwater Elevation Summary Dreyer's Grand Ice Cream 5929 College Avenue Oakland, California

Well No.	TOC Elevation ^a (feet)	Date	Groundwater Depth ^b (feet)	Groundwater Elevation ^c (feet)
MW1	189.14	08/12/91	14.86	174.28
		12/04/91	16.16	172.98
		04/24/92	11.93	177.21
		05/04/92	12.15	176.99
		06/17/92	13.17	175.97
		07/15/92	13.66	175.48
		08/31/92	14.91	174.23
		09/14/92	15.18	173.96
		10/22/92	15.34	173.80
		11/20/92	15.27	173.87
		12/03/92	14.44	174.70
	182.22 ^d	01/18/93	7.85	181.29
		02/10/93	9,29	179.85
		03/10/93	9.88	179.26
		~ 04/20/93 ~~???		
MW2	185.23	08/12/92	12.26	172.97
		12/04/91	12.30	172.93
		04/24/92	10.00	175.23
	•	05/04/92	10.29	174.94
		06/17/92	10.86	174.37
		07/15/92	11.48	173.75
		08/31/92	12.02	173.21
		09/14/92	12.34	172.89
		10/22/92	12.37	172.86
		11/20/92	11.64	⁻ 173.59

÷

Table 1

Groundwater Elevation Summary Dreyer's Grand Ice Cream 5929 College Avenue Oakland, California

Well	TOC Elevation ^a		Groundwater Depth ^b	Groundwater Elevation ^c
No.	(feet)	Date	(feet)	(feet)
		12/03/92	11.95	173.28
	185.84 ^d	01/18/93	5.86	179.37
		02/10/93	8.20	177.03
		03/10/93	8.57	176.66
			8.95	170.07
		.06/02/93	9.10	17674
MW3	184.68	08/12/91	11.73	172.95
		12/04/91	11.65	173.03
		04/24/92	11.00	173.68
		05/04/92	11.09	173.59
		06/17/92	11.51	173.17
		07/15/92	11.84	172.84
		08/31/92	11.70	172.98
		09/14/92	11.74	172.94
		10/22/92	11.33	173.35
		11/20/92	10.58	174.10
		12/03/92	10.12	174.56
	185.29 ^d	01/18/93	8.42	176.26
``		02/10/93	9.94	174.74
	•	03/10/93	10.19	174.49
		04/20/99		175.07
		06/02/03	40.73	

a. TOC: top of well casing elevation measured relative to an arbitrary bench mark which was measured to mean sea level (MSL) by interpolation from the Oakland West, California, 7.5' Quadrangle Topographic Map (T.1S, R.3W).

b. Depth to groundwater measured from the TOC.

c. Groundwater elevation is equal to the difference between the TOC elevation and groundwater depth.

d. Top of casing resurveyed on May 1, 1993

919313/DK2/TBL-1