

January 20, 1993

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

1287

**Subject: Fourth Quarter Report - 1992  
Groundwater Monitoring  
Dreyer's Grand Ice Cream  
5929 College Avenue  
Oakland, California  
(Project No. 919313)**

Aqua Terra Technologies  
Consulting Engineers  
& Scientists

Dear Ms. Eberle:

2950 Buskirk Avenue  
Suite 120  
Walnut Creek, CA  
94596-2079  
FAX 934-0418  
510 934-4884

Aqua Terra Technologies, Inc. (ATT) is pleased to present the results for groundwater monitoring activities during the Fourth Quarter, 1992 (October 1 through December 31, 1992) for the subject site. **Monitoring activities during the fourth quarter were limited to monthly recording of groundwater level measurements, the resulting data is presented below.**

*parque?*

**Groundwater Level Measurements**

Groundwater level measurements were recorded on October 22, November 20, and December 3, 1992. Groundwater contours and flow direction are shown on the plates in Attachment A. Historic groundwater elevations are summarized in Table 1 (Attachment B).

During the fourth quarter, 1992, groundwater table elevations ranged from approximately 172.86 feet above mean sea level (MSL) to 174.70 feet above MSL. Groundwater flow direction ranged to the west - southwest. Groundwater gradients ranged from 0.0052 feet per foot (ft/ft) to 0.0160 ft/ft.

**Planned Activities**

ATT has received a copy of the October 2, 1992 Alameda County Health Care Services Agency (ACHCSA) letter to Mr. William Collett of Dreyer's Grand Ice Cream, Inc.. **Proposed field activities, in accordance with ATT's June 18, 1992 Workplan, will be implemented during February 1993.**

Ms. Jennifer Eberle  
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Page 2

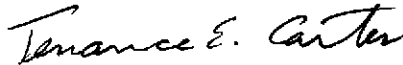
Please call if you have any questions regarding this letter.

Sincerely,

**AQUA TERRA TECHNOLOGIES, INC.**



Benjamin Berman  
Technical Services Manager  
Project Scientist



Terrance E. Carter  
Senior Environmental Engineer  
Project Manager

BB/TEC/:pd

Attachments

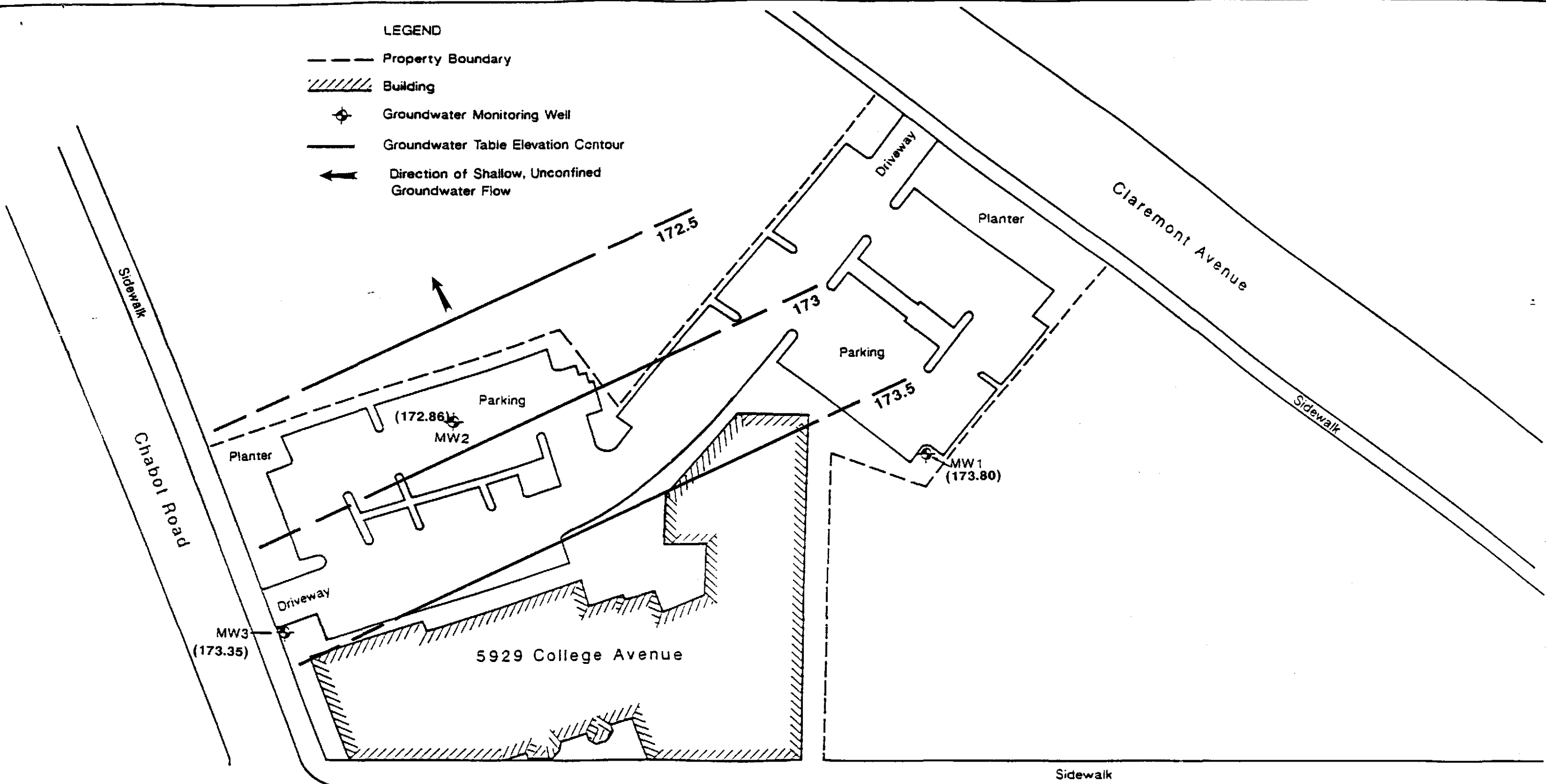
cc: William C. Collett, Dreyer's Grand Ice Cream

**ATTACHMENT A**

**Plates**

LEGEND

- Property Boundary
- ▨ Building
- ⊕ Groundwater Monitoring Well
- Groundwater Table Elevation Contour
- ← Direction of Shallow, Unconfined Groundwater Flow



0 50 feet  
SCALE

College Avenue

Groundwater Elevations and Contours  
10/22/92

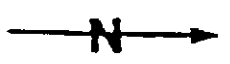
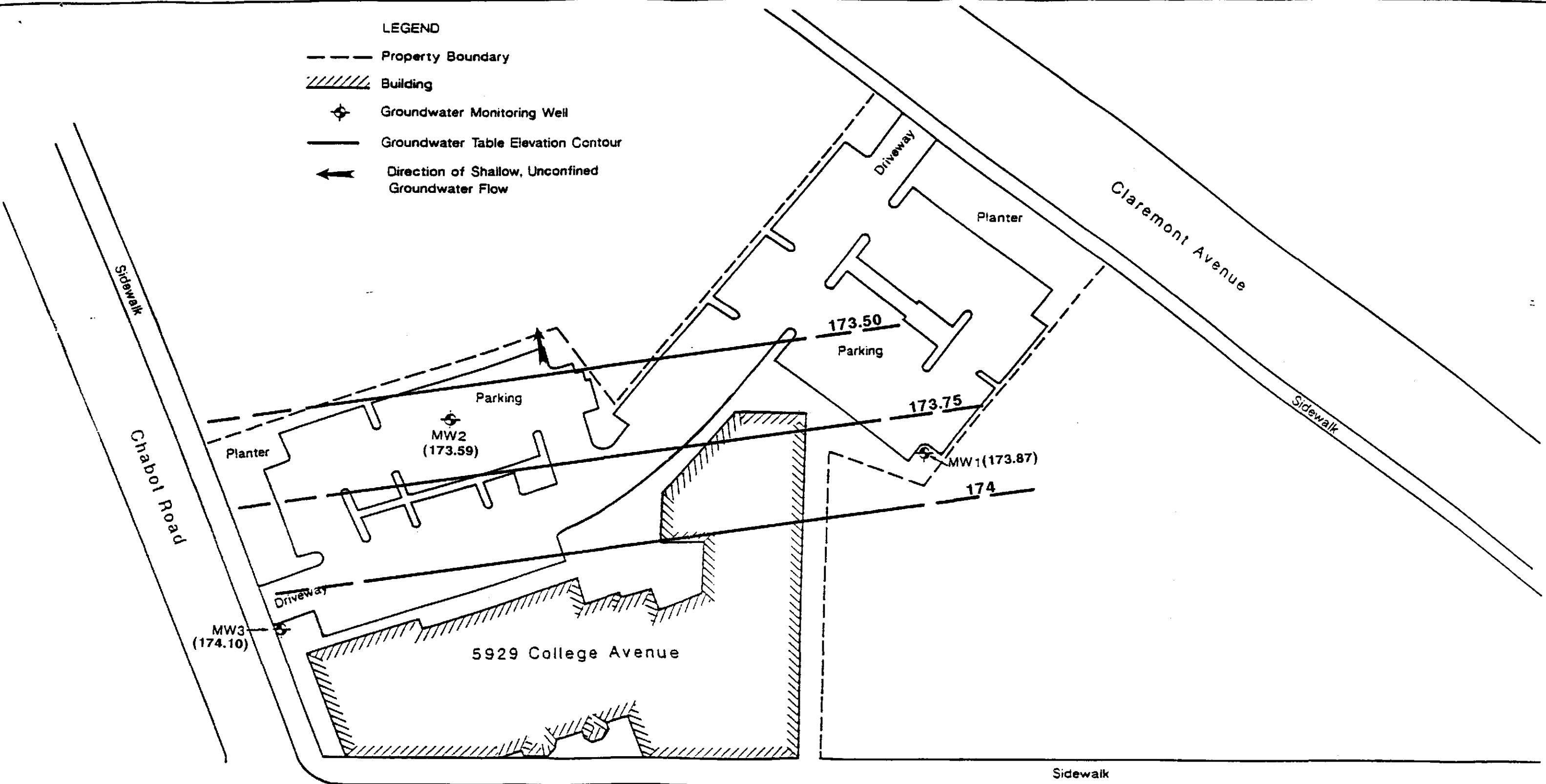
**ATT** Aqua Terra Technologies  
Consulting Engineers  
& Scientists

Dreyer's Grand Ice Cream, Inc.  
JOB NUMBER 919313  
DATE 12/92

PLATE  
1

**LEGEND**

- Property Boundary
- ▨ Building
- ⊕ Groundwater Monitoring Well
- Groundwater Table Elevation Contour
- ← Direction of Shallow, Unconfined Groundwater Flow



0 50 feet  
SCALE

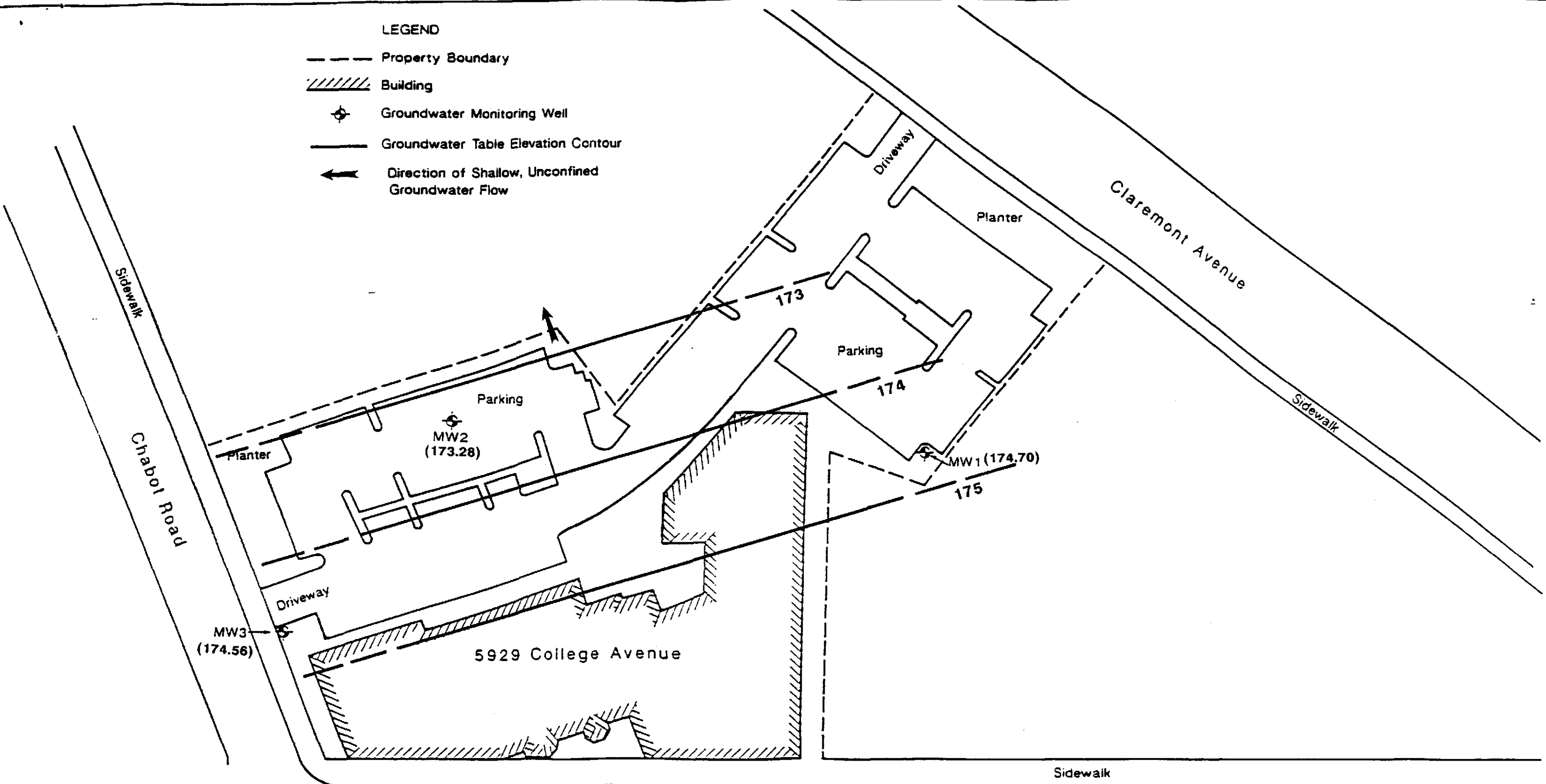
**Groundwater Elevations and Contours**  
11/22/92

**ATT** Aqua Terra Technologies  
Consulting Engineers  
& Scientists

<b>Dreyer's Grand Ice Cream, Inc.</b>		<b>PLATE</b> 2
<b>JOB NUMBER</b> 919313	<b>DATE</b> 12/92	

**LEGEND**

- Property Boundary
- ▨ Building
- ⊕ Groundwater Monitoring Well
- Groundwater Table Elevation Contour
- ← Direction of Shallow, Unconfined Groundwater Flow



0 50 feet  
SCALE

College Avenue

Groundwater Elevations and Contours  
12/03/92

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Consulting Engineers  
& Scientists

Dreyer's Grand Ice Cream, Inc.

JOB NUMBER  
919313

DATE  
12/92

PLATE  
3

**ATTACHMENT B**

**Table**

Table 1. Groundwater Elevation Summary  
 Dreyer's Grand Ice Cream  
 5929 College Avenue  
 Oakland, California

Well No.	TOC Elevation <sup>a</sup> (feet)	Date	Groundwater Depth <sup>b</sup> (feet)	Groundwater Elevation <sup>c</sup> (feet)
MW1	189.14	4/24/92	11.93	177.21
		5/04/92	12.15	176.99
		6/17/92	13.17	175.97
		7/15/92	13.66	175.48
		8/31/92	14.91	174.23
		9/14/92	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
MW2	185.23	4/24/92	10.00	175.23
		5/04/92	10.29	174.94
		6/17/92	10.86	174.37
		7/15/92	11.48	173.75
		8/31/92	12.02	173.21
		9/14/92	12.34	172.89
		10/22/92	12.37	172.86
		11/20/92	11.64	173.59
		12/03/92	11.95	173.28
MW3	184.68	4/24/92	11.00	173.68
		5/04/92	11.09	173.59
		6/17/92	11.51	173.17
		7/15/92	11.84	172.84
		8/31/92	11.70	172.98
		9/14/92	11.74	172.94



Table 1. Groundwater Elevation Summary  
 Dreyer's Grand Ice Cream  
 5929 College Avenue  
 Oakland, California (continued)

Well No.	TOC Elevation <sup>a</sup> (feet)	Date	Groundwater Depth <sup>b</sup> (feet)	Groundwater Elevation <sup>c</sup> (feet)
		10/22/92	11.33	173.35
		11/20/92	10.58	174.10
		12/03/92	10.12	174.56

- 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.