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DURHAM TRANSPORTATION

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May 9, 1991

Miss Pamela Evans
Alameda County Health Care Services Agency
Hazardous Materials Division
80 Swan Way, Suite 200
Oakland, CA 94621

RE: Reports

Dear Miss Evans:

Enclosed is a copy of Progress Report #5 covering the 19984 Meekland Avenue, Hayward, California project

Sincerely,

Chris M. Stone
Director of Contracts
and Administration

cc: G. Peterson
B. Ashton
J. Harbert

CTTS, Inc.
toxic technology services

April 4, 1991
Project 91-3

Mr. Jack Worthington
Durham Transportation
3717 North River Avenue
Rosemead, California 91770

Subject: Progress Report #8
Period Covering
February 1, 1991 - March 31, 1991
19984 Meekland Avenue, Hayward, CA

Dear Mr. Worthington:

Enclosed is the eighth progress report for the Phase II investigation to evaluate the extent of soil and groundwater contamination at 19984 Meekland Avenue in the unincorporated area of Alameda County, near Hayward, California.

This report covers the following topics:

Introduction
February/March Activities
Monthly Monitoring of Groundwater Elevations

After your review of this document, it is recommended that a copy be sent to Ms. Pam Evans of the Alameda County Health Care Services Department, Hazardous Materials Division. An extra copy of this report has been provided to you for this purpose.

Thank you for this opportunity to provide Durham Transportation with these environmental services.

Sincerely,

Lisa A. Polos, REA, CHMM
Senior Scientist
Toxic Technology Services
CTTS, Inc.

John N. Alt, CEG #1136
Consulting Geologist
Toxic Technology Services
CTTS, Inc.

INTRODUCTION

The following is the eighth progress report of activities in the evaluation of the lateral and vertical extent of soil and groundwater contamination at 19984 Meekland Avenue, in the unincorporated area of Alameda County, near Hayward, California. This report covers the period of February 1, 1991 - March 31, 1991. The previous progress reports are dated as follows:

1. July 2, 1990
2. August 2, 1990
3. September 21, 1990
4. November 12, 1990
5. December 28, 1990
6. February 11, 1991
7. February 25, 1991

The purpose of this on-going investigation is two fold; to assess the vertical and lateral extent of soil and groundwater contamination and to characterize the contamination with regards to constituents and concentration. This investigation will result in the preparation of a remediation plan that will recommend appropriate, available technology.

FEBRUARY/MARCH ACTIVITIES

On February 13, 1991, two additional groundwater monitoring wells were installed on-site. These wells were purged and samples collected on February 18, 1991. The data is presented in a separate report dated April 2, 1991 (Project No. 91-6).

Also during the months of February and March, installation of on-site electricity and water was completed. The electrical inspection had to take place twice, as the ground wire was not originally installed into solid ground. The water hook-up became a more complicated issue when the water pipe from the water meter was found to be leaking. The issue was resolved by excavating a square of the sidewalk around the meter and replacing the plumbing. This job passed inspection and the concrete square was replaced.

February 20, 1991 was the public hearing for the variance application on the use of a seven foot fence with barbed wire and razor coil. Members from a local homeowner's association were in attendance and were successful in persuading the Planning Commission to require removal of the barbed wire and razor coil. We were informed by the Planning Commission that a six foot fence on the north and east sides of the subject site would be acceptable if Durham Transportation desired such a fence. The

barbed wire and razor coil was removed by Oakland Fence in mid-March.

Also completed during this period was the cost analysis of remedial alternatives and the first draft of the Remediation Plan. This should be finalized in April.

MONTHLY MONITORING OF GROUNDWATER ELEVATIONS

As stated in previous reports, the groundwater gradient at the site is essentially flat. The elevation of the groundwater has been measured in the monitoring wells on-site by surveying the elevation of the top of the casing and measuring the depth to groundwater using an electronic probe. The elevations are based on Alameda County benchmark BLO-MEEK located in the middle of the intersection of Blossom Way and Meekland Avenue. The depth to groundwater was measured December of 1989, January of 1990, and then monthly since March of 1990.

The data are presented on Table 1. They indicate a very low westward to northwestward gradient. For the most part, the elevations of groundwater in the wells are within 0.1 foot and are about at the level of error in the measuring techniques. Therefore an exact gradient was not calculated.

The data also indicates that the groundwater table rose approximately 0.9 feet over the first four months of measurement, then flattened out. Characteristic with the dry season, the groundwater table receded until November, flattened out and has risen significantly with the heavy rains of February and March.

TABLE 1
GROUNDWATER ELEVATION

Date	MW-1	MW-3	MW-4
Elevation top of casing	55.13	54.34	54.61
12/19/89	26.06	25.99	26.02
	(O)	(O)	(o)
1/29/90	26.35	26.34	26.43
3/23/90	26.91	26.83	26.90
	(O,S)	(O,-)	(o,-)
4/24/90	26.50	26.37	26.47
	(O,S)	(o,-)	(-,-)
Elevation top of casing	55.18	--	--
	(new collar for casing MW-1 only)		
5/31/90	26.50	26.44	26.52
	(O,S)	(-,-)	(-,-)
6/20/90	26.30	26.24	26.29
	(O,S)	(-,-)	(-,-)
7/12/90	25.78	25.83	25.92
	(O,S)	(O,-)	(-,-)
8/30/90	25.37	25.37	25.47
	(O,S)	(-,-)	(-,-)
9/28/90	25.03	25.10	25.20
	(O,S)	(-,-)	(-,-)
10/12/90	24.87	25.06	25.17
	(O,S)	(-,-)	(-,-)
11/30/90	25.09	25.00	25.08
	(O,S)	(-,-)	(-,-)
12/19/90	25.24	25.18	25.27
	(O,S)	(-,-)	(-,-)
1/24/91	25.18	25.16	25.22
	(O,S)	(-,-)	(-,-)
2/18/91	25.44	25.38	25.45
	(O,S)	(-,-)	(-,-)
3/27/91	27.48	27.45	29.56*
	Odor and Sheen not taken		

Note: All measurements are in feet.
(O) = strong odor; (o) = slight odor; (S) = sheen;
(-) = non-detectable
* = rain water filled christie box and poured into well

TABLE 1 (cont.)
GROUNDWATER ELEVATION

Date	MW-5	MW-6	MW-7	MW-8	MW-9
Elevation top of casing	54.95	54.92	55.57	55.07	54.12
9/28/90	25.27	25.21	Not Installed		
	(O,-)	(O,S)			
10/12/90	25.16	25.07	25.11		
	(O,-)	(O,-)	(O,S)		
11/30/90	25.12	25.01	25.54		
	(-,-)	(-,-)	(o,-)		
12/19/90	25.15	25.22	25.14		
	(O,-)	(o,-)	(O,-)		
1/24/91	25.54	25.16	25.21		
	(-,-)	(o,-)	(o,-)		
2/18/91	25.39	25.40	25.46	25.48	25.40
	(o,-)	(o,-)	(-,-)	(-,-)	(o,-)
3/27/91	26.62	27.46	27.50	27.40	27.40
	Odor and Sheen not taken				

Note: All measurements are in feet.
(O) = strong odor; (o) = slight odor; (S) = sheen;
(-) = non-detectable