A·C·C
ENVIRONMENTAL
CONSULTANTS

ENVIRONMENTAL
PROTECTION

98 OCT 21 PM 2:02

October 20, 1998

Mr. Curt Bolton
Grand Marina
2099 Grand Marina
Alameda, California

RE: Monitoring Well Destruction Letter Report
2099 Grand Marina, Alameda, California
ACC Project No. 98-6176-001.03

Dear Mr. Bolton:

ACC Environmental Consultants, Inc., (ACC) presents this letter report summarizing the destruction of five monitoring wells at 2099 Grand Marina, Alameda, California (Figure 1).

BACKGROUND

Five groundwater monitoring wells were destroyed via pressure grouting at 2099 Grand Marina, Alameda, California in April 1987 by Crowley Environmental. Ms. Eva Chu of Alameda County Health Care Services (ACHCSA) authorized site closure and well decommissioning in a letter dated June 24, 1998.

WELL DESTRUCTION PROCEDURES

As required by the Occupational Health and Safety Administration, 29 Code of Federal Regulations 1910.120, ACC prepared a site specific Health and Safety Plan for the proposed work.

Five 2-inch-diameter monitoring wells with total depths between 12 and 15 feet below ground surface (bgs) were destroyed by Environmental Control Associates of Aptos, California (license 695-970).

Well Completion Report Numbers 525492, 525493, 525494, 525663, and 525664 for decommissioned wells MW-2, MW-3, MW-4, MW-5a and MW-6a respectively, are attached and will be filed with the Department of Water Resources.

Monitoring wells MW-2 through MW-4, as well as MW-5a and MW-6a were destroyed by removing each well box and pressure grouting each well to the total depths. The following procedures were followed for the decommissioning of wells:

- The monitoring wells to be abandoned were investigated prior to destruction. The depth, casing diameter, and construction and sealing design of the well were ascertained. The wells were sounded immediately before destruction to determine whether there are obstructions within each wellbore that would interfere with grouting.

- Monitoring wells were destroyed by pressure grouting. A volume of cement grout approximately equal to the pore space in the annular sandpack and the inside diameter of the well was introduced into each well. The top one foot of each wellbore was filled with concrete to surface grade and finished to match the existing surface. A minimum of 10 gallons of grout was introduced into each wellbore.

- Each wellbore accepted the grout slurry and the grout settled uniformly. ACC believes the annular sandpack accepted the grout evenly and the grout volume introduced was equal to or greater than the annular pore space plus the well volume.

No soil cuttings were generated by pressure grouting.

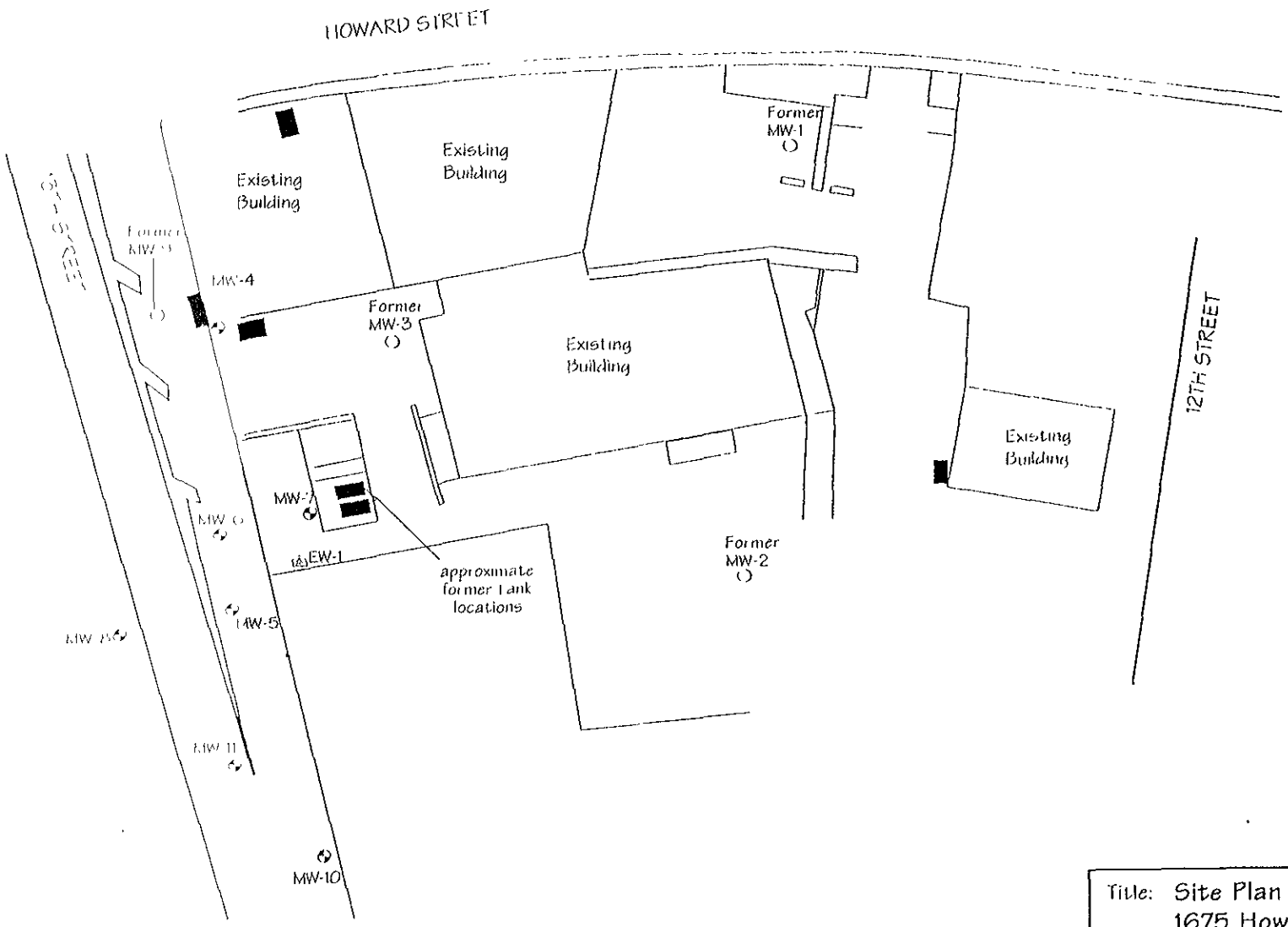
If you have any questions regarding this letter report, please call me at (510) 638-8400.

Sincerely,

Stephen P. Southern
Senior Environmental Assessor

/abp:sps

Attachments



Legend

- Former Tank Excavation
- MW-10 Monitoring Well
- EW-1 Former Monitoring Well
- EW-11 Extraction Well

GRAPHIC SCALE

0 50 100 150

(feet)

Title: Site Plan
1675 Howard Street
San Francisco, CA

Date: 10/16/97	Figure No: 2
Drawn By: JVC/DRD	Scale: 1" = 100'
Project No: 6093-001.07	

ACC Environmental Consultants
7977 Capwell Drive, Suite 100
Oakland, California 94621

(510) 638-8400 Fax:(510) 638-8404

CONFIDENTIAL

STATE OF CALIFORNIA DWR
WELL COMPLETION REPORT
(WELL LOGS)

REMOVED

CONFIDENTIAL

STATE OF CALIFORNIA DWR
WELL COMPLETION REPORT
(WELL LOGS)

REMOVED

CONFIDENTIAL

STATE OF CALIFORNIA DWR
WELL COMPLETION REPORT
(WELL LOGS)

REMOVED

CONFIDENTIAL

STATE OF CALIFORNIA DWR
WELL COMPLETION REPORT
(WELL LOGS)

REMOVED

CONFIDENTIAL

STATE OF CALIFORNIA DWR
WELL COMPLETION REPORT
(WELL LOGS)

REMOVED