GROVE VALVE AND REGULATOR COMPANY
A CALIFORNIA CORPORATION
6529 HOLLIS STREET, OAKLAND, CALIFORNIA 94608

JOHN P. TESCHER
PRESIDENT AND CHIEF OPERATING OFFICER

(415) 655-7700

June 24, 1992

Mr. Lester Feldman
Environmental Specialist
Regional Water Quality Control Board
2101 Webster Street, Suite 500
Oakland, CA 94612

Subject: Grove Valve and Regulator Company,
6529 Hollis Street, Emeryville, CA 94608

Dear Mr. Feldman:

Grove Valve and Regulator Company ("Grove") has, with the assistance of its consultants, Woodward-Clyde, recently performed an investigation of environmental conditions at its facility located at 6529 Hollis St., Emeryville, California for the purpose of establishing a baseline characterization of soil conditions across the property and of groundwater conditions at or near the property boundary.

The investigation included placing soil borings in areas believed most likely to yield indications of contamination and installing three shallow groundwater wells near the property boundary. Both soil and water samples were analyzed by Quantec Laboratories in Pleasant Hill for oil and grease/hydrocarbons (Standard Method 5520 C, E, and F) pesticides/PCBs (EPA Method 8080) and volatile organics (EPA Method 8010 and 8020). Most of the samples had values reported below the detection limit. However, a few of the samples were elevated and above detection limits; these are the results we wish to convey to you.

One soil sample at 5 feet depth on the north side of the main plant had a hydrocarbons value of 2500 mg/kg. Another sample at 5 inches depth in the west testing pit had a hydrocarbons value of 230 mg/kg. The concentration at this location decreased to non-detect with depth.

Based on water level measurements in the three wells, a groundwater gradient to the west was confirmed. Groundwater from an upgradient well at the parking lot had a concentration of 103 ug/L trichloroethene. Groundwater from the downgradient well near the Southern Pacific railroad tracks had a concentration of 1300 ug/L trichloroethene.

The causes of the elevated levels of hydrocarbons in soil and trichloroethene in groundwater are unknown. No known spills of either of these compounds have occurred at Grove. We use petroleum products such as lubricating oils, and some lacquer thinner and kerosene. In the past we have used low [redacted] for vapor degreasers, the use of which has been discontinued.

Based on the data, Grove intends to pursue a further investigation to confirm that the contamination is localized and not the result of on site sources. In this regard, we plan on monitoring the groundwater on a regular basis. We will send the analytical results to you and to other appropriate agencies. We will also conduct an update to our literature survey to determine if any neighboring facilities could possibly have contributed to the observed contamination.

If you have any comments or questions on this letter or report, please do not hesitate to call Mr. Bill Tallent, Plant Services Manager, at 655-7700.

Very truly yours,

GROVE VALVE AND REGULATOR COMPANY

John P. Tescher

JPT/jlw

Table 2. SUMMARY OF ANALYSES FOR SOIL SAMPLES FROM GROVE VALVE AND REGULATOR COMPANY

| BORING/ WELL NUMBER | Date | OIL & GREASE STD Method 5520 E/F | AROMATIC VOLATILE HYDROCARBONS EPA Method 8020 | | | HALOGENATED VOLATILE ORGANICS EPA METHOD 8010** | | ORGANOCHLORINE PESTICIDES and PCBs |
|---|---|---|---|---|---|---|---|---|
| | | Hydrocarbon (mg/kg) | B-T-E-X (µg/kg) | Chlorobenzene (µg/kg) | 1,*-Dichlorobenzene (µg/kg) | Trichloroethene (µg/kg) | All other target compounds (µg/kg) | EPA METHOD 8080** (µg/kg) |
| SB-1-6" | 25-Feb-92 | ND | ND | ND | ND | ND | ND | ND |
| SB-1-6"-A | 25-Feb-92 | 20 | ND | ND | ND | ND | ND | ND |
| SB-1-3' | 25-Feb-92 | 20 | ND | ND | ND | ND | ND | ND |
| SB-1-5' | 25-Feb-92 | ND | -- | -- | -- | -- | -- | -- |
| SB-2-6" | 25-Feb-92 | ND | ND | ND | ND | ND | ND | ND |
| SB-2-3' | 25-Feb-92 | ND | -- | -- | -- | -- | -- | -- |
| SB-3-6" | 25-Feb-92 | 230 | ND | ND | ND | ND | ND | ND |
| SB-3-3' | 25-Feb-92 | 30 | ND | ND | ND | ND | ND | ND |
| SB-3-5' | 25-Feb-92 | ND | -- | -- | -- | -- | -- | -- |
| SB-4-6" | 25-Feb-92 | 230 | ND | ND | ND | 6 | ND | ND |
| SB-4-3' | 25-Feb-92 | 50 | ND | ND | ND | ND | ND | ND |
| SB-4-5' | 25-Feb-92 | 2500 | -- | -- | -- | -- | -- | -- |
| SB-5-6" | 25-Feb-92 | 40 | ND | ND | ND | ND | ND | ND |
| SB-5-3' | 25-Feb-92 | ND | ND | ND | ND | ND | ND | ND |
| SB-5-5' | 25-Feb-92 | 10 | -- | -- | -- | -- | -- | -- |
| SB-6-6" | 25-Feb-92 | 80 | ND | ND | ND | ND | ND | ND |
| SB-6-3' | 25-Feb-92 | 30 | ND | ND | ND | ND | ND | ND |
| SB-6-5' | 25-Feb-92 | 10 | -- | -- | -- | -- | -- | -- |
| MW-1-6" | 27-Feb-92 | ND | ND | ND | ND | ND | ND | ND |
| MW-1-5' | 27-Feb-92 | ND | ND | ND | ND | ND | ND | ND |
| MW-1-15' | 27-Feb-92 | ND | ND | ND | ND | ND | ND | ND |
| MW-1-25' | 27-Feb-92 | ND | ND | ND | ND | ND | ND | ND |
| MW-2-6" | 26-Feb-92 | ND | ND | ND | ND | ND | ND | ND |
| MW-2-10' | 26-Feb-92 | ND | ND | ND | ND | ND | ND | ND |
| MW-2-20' | 26-Feb-92 | ND | ND | ND | ND | ND | ND | ND |
| MW-2-25' | 26-Feb-92 | ND | ND | ND | ND | ND | ND | ND |
| MW-3-6" | 26-Feb-92 | 20 | ND | ND | ND | ND | ND | ND |
| MW-3-5' | 26-Feb-92 | ND | ND | ND | ND | ND | ND | ND |
| MW-3-15' | 26-Feb-92 | ND | ND | ND | ND | ND | ND | ND |
| MW-3-25' | 26-Feb-92 | ND | ND | ND | ND | 120 | ND | ND |
| MW-3-25'-A | 26-Feb-92 | ND | ND | ND | ND | 100 | ND | ND |
| Detection Limits | | 10 | 5*** | 5 | 5 | 5 | 5 | 5*** |

General Notes

"A" samples are laboratory prepared splits

"ND" denotes not detected above analytical detection limit.

"--" denotes sample was not analyzed for this constituent.

"B-T-E-X" denotes Benzene, Toluene, Ethylbenzene and Xylenes

Specific Notes * = total of 1,2-Dichlorobenzene, 1,3-Dichlorobenzene, and 1,4-Dichlorobenzene

** = see lab sheets for complete list of method-specific target compounds.

*** = detection limits vary by individual constituents

Table 3. SUMMARY OF ANALYSES FOR GROUNDWATER SAMPLES FROM GROVE VALVE AND REGULATOR COMPANY

| WELL NUMBER | Date | OIL & GREASE STD Method-5520 E/F Hydrocarbon (mg/L) | AROMATIC VOLATILE HYDROCARBONS EPA Method 8020 B-T-E-X (µg/L) | Chloro-benzene (µg/L) | 1,*-Dichloro-benzene (µg/L) | HALOGENATED VOLATILE ORGANICS EPA Method 8010** Chloroform (µg/L) | 1,1-Dichloroethane (µg/L) | 1,1-Dichloroethene (µg/L) | cis-1,2-Dichloroethene (µg/L) | trans-1,2-Dichloroethene (µg/L) | 1,1,1-Trichloroethane (µg/L) | Trichloroethene (µg/L) | Vinyl Chloride (µg/L) | ORGANOCHLORINE PESTICIDES and PCBs EPA METHOD 8080** (µg/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-1 | 2-Mar-92 | ND | ND | ND | ND | ND | ND | ND | 33.0 | 12.0 | ND | 103.0 | ND | ND |
| MW-2 | 2-Mar-92 | ND | ND | ND | ND | ND | 3.0 | ND | 2.0 | ND | 0.6 | 4.0 | ND | ND |
| MW-2-DUP | 2-Mar-92 | ND | ND | ND | ND | ND | 3.0 | ND | 2.0 | ND | 0.6 | 4.0 | ND | ND |
| MW-3 | 2-Mar-92 | ND | ND | ND | ND | 0.5 | 0.6 | 2.0 | 18.0 | ND | 0.5 | 1300.0 | 5.0 | ND |
| Detection Limits | | 0.5 | 0.5*** | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.05*** |
| EPA | MCL | -- | 5.0 | -- | 75.0 | 100.0 | -- | 7.0 | 70.0 | 100.0 | 200.0 | 5.0 | 2.0 | |
| CA-STATE | MCL | -- | 1.0 | -- | 5.0 | -- | 5.0 | 6.0 | 6.0 | 10.0 | 200.0 | 5.0 | 0.5 | |

General Notes

"ND" denotes not detected above analytical detection limit.

"--" denotes sample not regulated or no MCL established.

"B-T-E-X" denotes Benzene, Toluene, Ethylbenzene, and Xylenes.

Specific Notes

* = total of 1,2-Dichlorobenzene, 1,3-Dichlorobenzene, and 1,4-Dichlorobenzene

** = see lab sheets for complete list of method-specific target compounds.

*** = detection limits varY by individual constituents

SHADED = amount exceeds either EPA or CA State Maximum Contaminant Level (MCL)

**Table 1.** **WATER LEVEL MEASUREMENTS RELATIVE TO MEAN SEA LEVEL (MSL), GROVE VALVE and REGULATOR COMPANY**

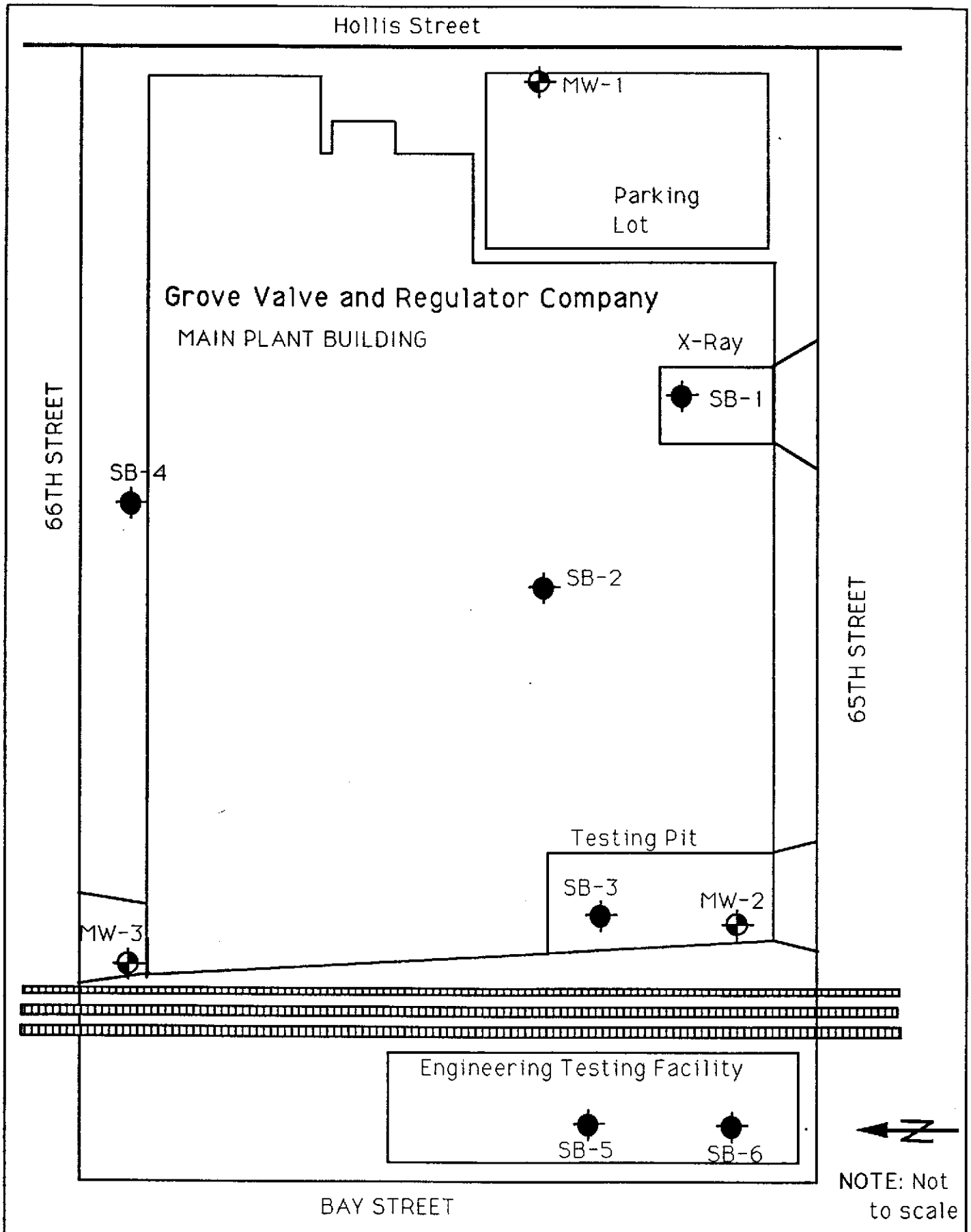
**(All measurements are in feet)**

| Well Number | Adjacent Ground Elevation (Note 1) | Top of Well Casing Elevation (Note 1) | Sounding Date | Depth to Top of Groundwater (Note 2) | Groundwater Elevation (Note 1) |
|---|---|---|---|---|---|
| **MW-1** | 20.89 | 20.72 | 3/2/92 | 4.28 | 16.44 |
| | | | 3/26/92 | 4.89 | 15.83 |
| **MW-2** | 16.28 | 15.95 | 3/2/92 | 7.90 | 8.05 |
| | | | 3/26/92 | 6.10 | 9.85 |
| **MW-3** | 17.47 | 16.98 | 3/2/92 | 9.22 | 7.76 |
| | | | 3/26/92 | 8.38 | 8.60 |

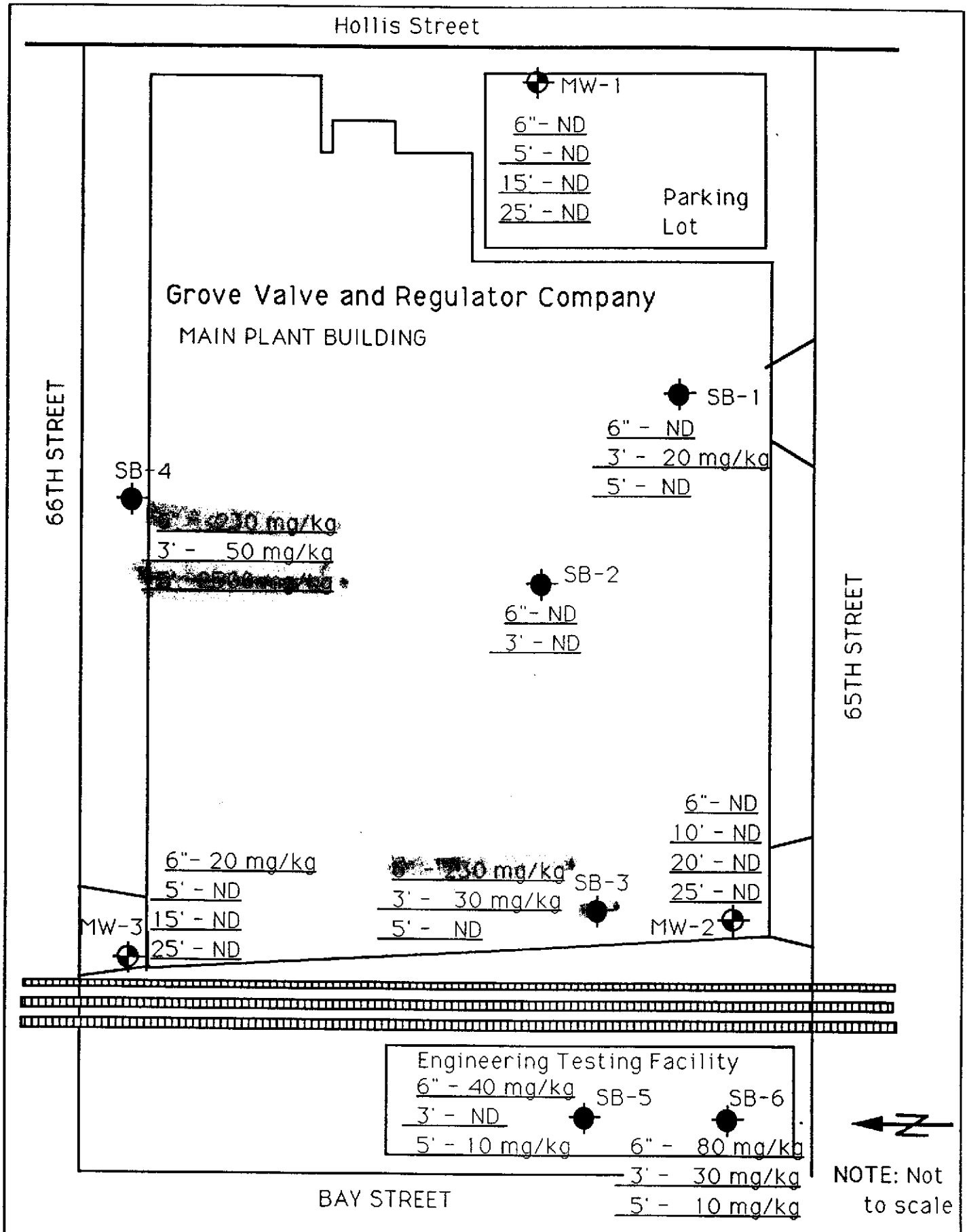
Notes

1. Based upon USC and GS datum in feet relative to MSL; adjacent ground elevation refers to steel rim of Christy box reference mark.

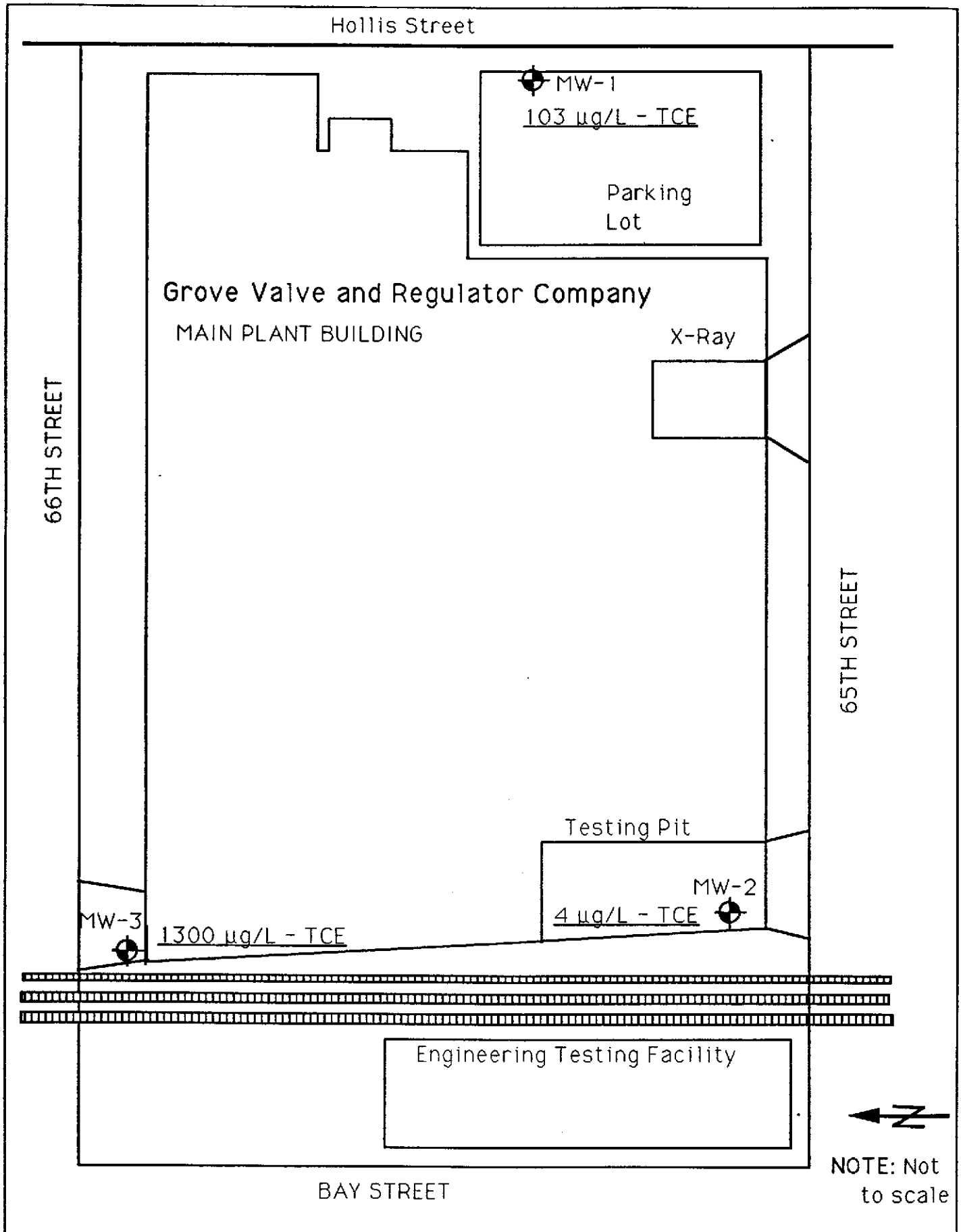
2. Relative to top-of-well-casing



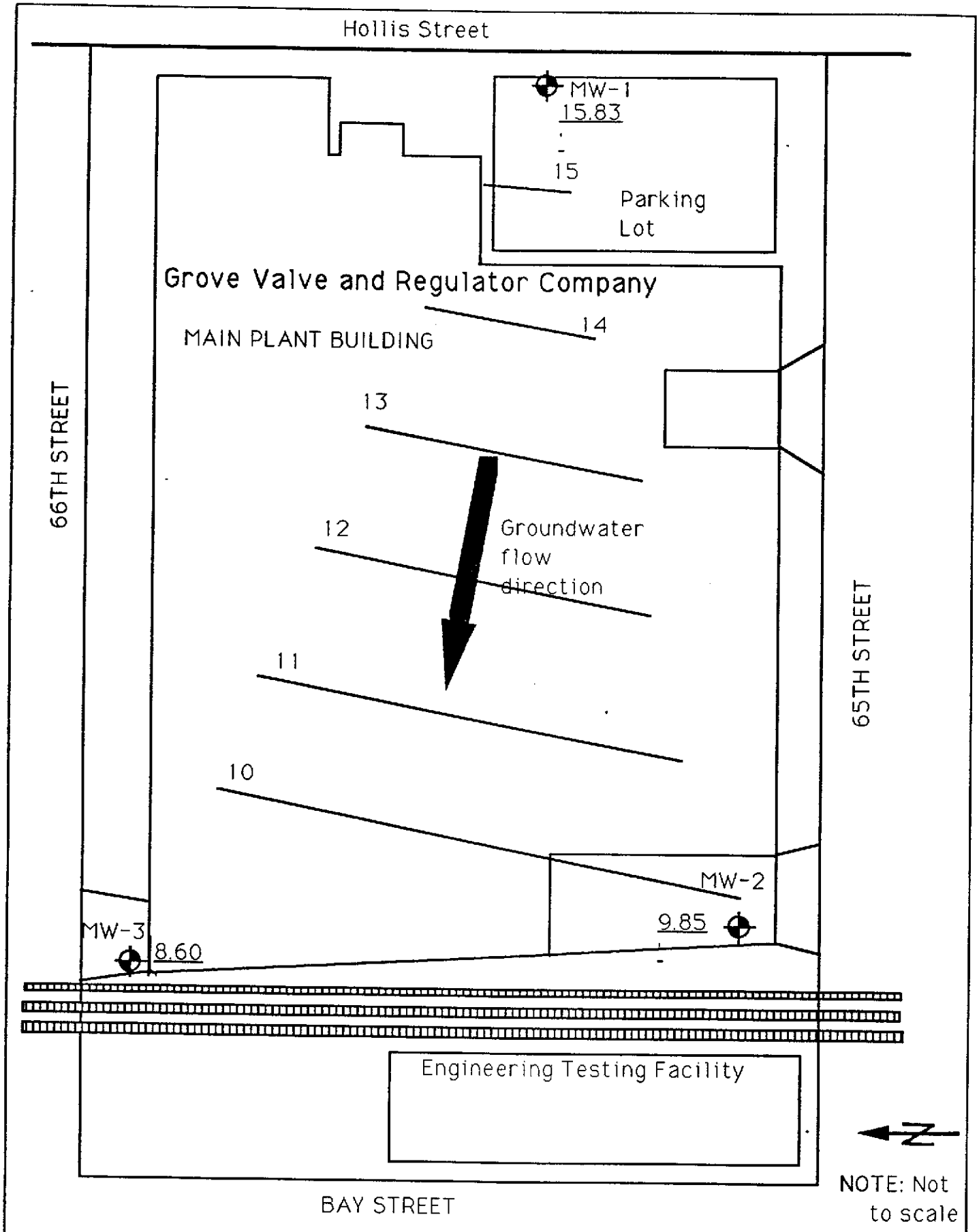

| Project No. 92C091A | Grove Valve | Location of soil borings and monitoring wells at Grove Valve and Regulator Company | Figure 1 |
|---|---|---|---|
| **Woodward-Clyde Consultants** | | | |



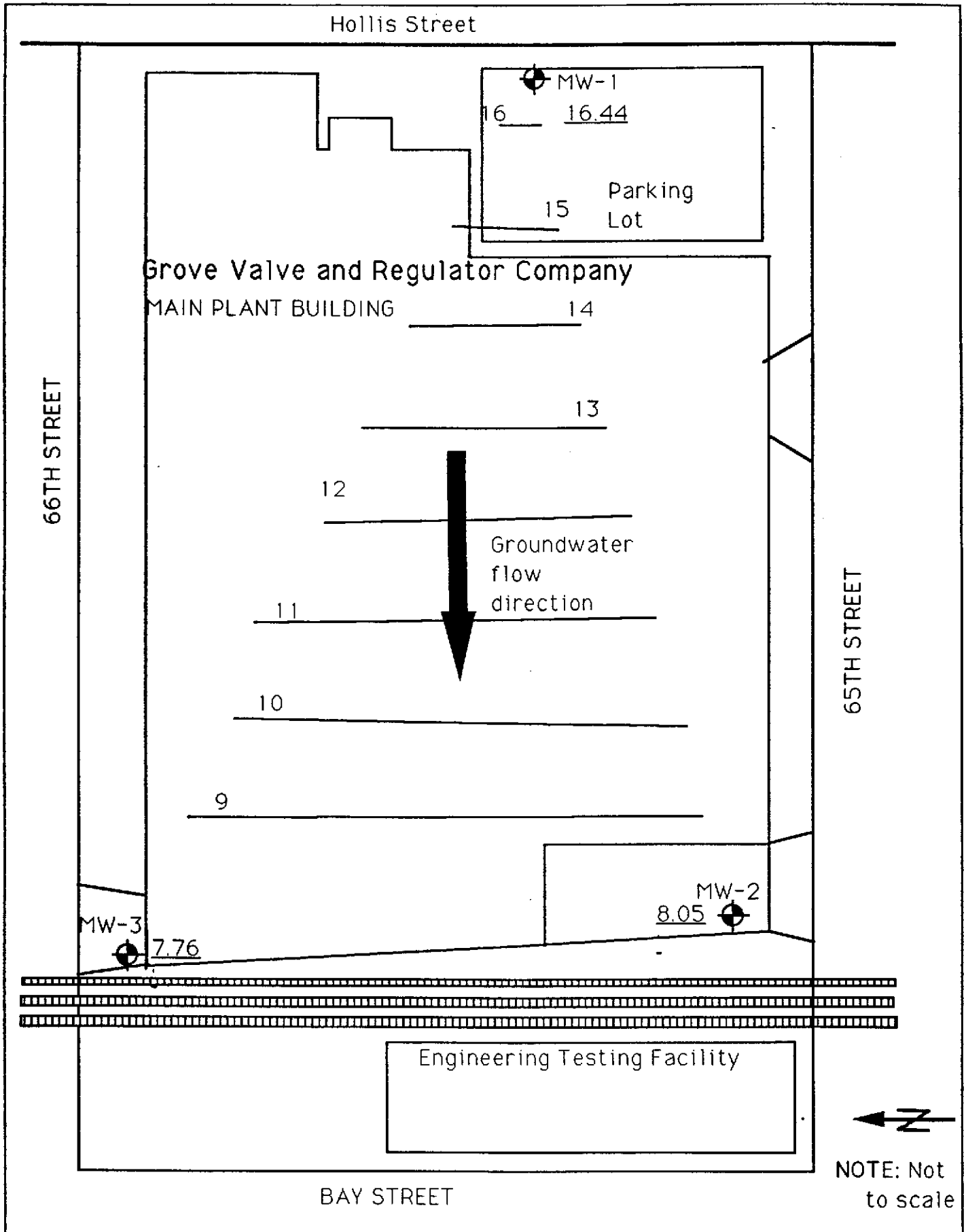

| Project No. 92C091A | Grove Valve | Oil & Grease (Hydrocarbon) results in soil, Grove Valve and Regulator Company | Figure 2 |
|---|---|---|---|
| Woodward-Clyde Consultants | | | |




| Project No. 92C091A | Grove Valve | Trichloroethene (TCE) in Groundwater<br>March 2, 1992<br>Grove Valve and Regulator Company | Figure 3 |
|---|---|---|---|
| **Woodward-Clyde Consultants** | | | |




| Project No. 92C091A | Grove Valve | Groundwater elevation in feet above MSL March 2, 1992 Grove Valve and Regulator Company | Figure 4 |
|---|---|---|---|
| **Woodward-Clyde Consultants** | | | |




| Project No. 92C091A | Grove Valve | Groundwater elevation in feet above MSL March 26, 1992 Grove Valve and Regulator Company | Figure 5 |
|---|---|---|---|
| **Woodward-Clyde Consultants** | | | |