

ENVIRONMENTAL
PROTECTION

95 MAR 27 PM 2: 09

**QUARTERLY REPORT
1ST QUARTER 1996**

**Grove Valve & Regulator Company
Emeryville, California**

February 22, 1996

Submitted To:

Alameda County Health
Care Services Agency
Department of Environmental Health
1131 Harbor Bay Parkway
Alameda, California 94502

Prepared For:

Grove Valve & Regulator Company
6529 Hollis Street
Emeryville, California 94549

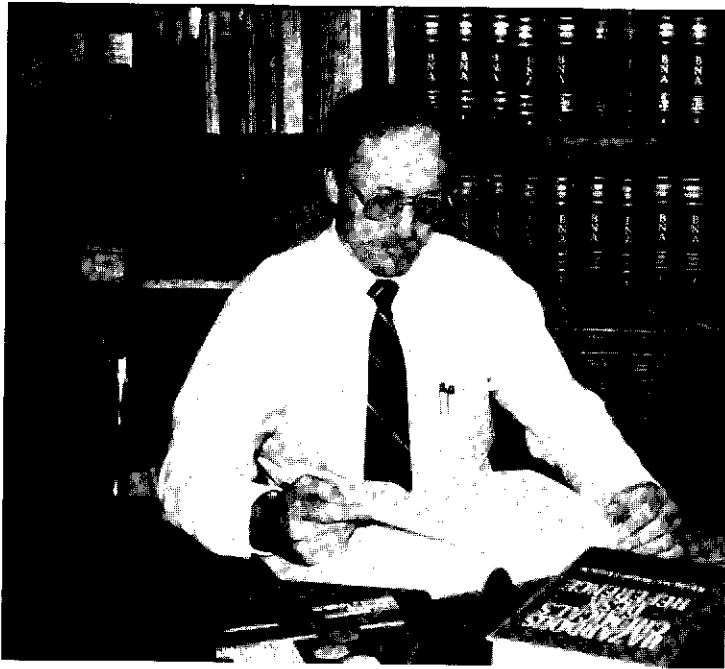
Prepared By:

Environmental Management &
Engineering, Inc.
437 Industrial Lane
Birmingham, Alabama 35211
Project No. DRS-96-E977



**Environmental Management
& Engineering, Inc.**

Specialists in Environmental Management



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- Geotechnical & Groundwater Services
- Underground Storage Tank Testing, Removal, & Remediation
- Laboratory Services



GROVE VALVE AND REGULATOR CO.
P.O. Box 721900
Houston, Texas 77272-1900
Phone (713) 568-2211 • Fax (713) 568-1414

ENERGY
VALVE DIVISION

DRESSER

March 4, 1996

Ms. Susan Hugo
Senior Hazardous Materials Specialist
Alameda County Health Care Services Agency
Department of Environmental Health
1131 Harbor Bay Parkway
Alameda, California 94502-6577

ENVIRONMENTAL
PROTECTION
96 MAR 27 PM 2:08

**RE: Grove Valve & Regulator Company, Emeryville, CA
Quarterly Report - 1st Quarter 1996
DRS-96-E977**

Dear Ms. Hugo:

Please find two (2) copies of the above captioned report as requested in your letter of June 29, 1995. I hereby state that, to the best of my knowledge, the report is accurate and that I concur with the conclusions and recommendations made therein. Please contact Mr. Kevin Holloran of Environmental Management & Engineering, Inc. (EME) at 205/940-7700 if you have any comments or questions. We appreciate your assistance with this matter.

Thank you for your kind consideration.

Regards,

Kenneth G. Banks
President

KGB/lmm

enc

MISSION STATEMENT

Working together, with our customers and suppliers, to manufacture the best valve and regulator products for the oil, gas, and process industries; with a commitment to quality, reliability, and safety, while providing a clean and healthy work environment.

February 22, 1996

**QUARTERLY REPORT 1ST QUARTER 1996 –
Grove Valve & Regulator Company
Emeryville, California**

Submitted To:

Alameda County Health Care
Services Agency
Department of Environmental Health
1131 Harbor Bay Parkway
Alameda, California 94502

Prepared For:

Grove Valve & Regulator Company
6529 Hollis Street
Emeryville, California 94549

Prepared By:

Environmental Management &
Engineering, Inc.
437 Industrial Lane
Birmingham, Alabama 35211
Project No. DRS-95-E942



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- Attachment 2 "Field Activity Report", Environmental Sampling Services, January 1996
- Attachment 3 Laboratory Analytical Reports for Groundwater Monitoring Events
- Attachment 4 Laboratory Analytical Report for Sanitary Sewer Discharge Monitoring Event

QUARTERLY REPORT – 1ST QUARTER 1996

Grove Valve & Regulator Company
Emeryville, California

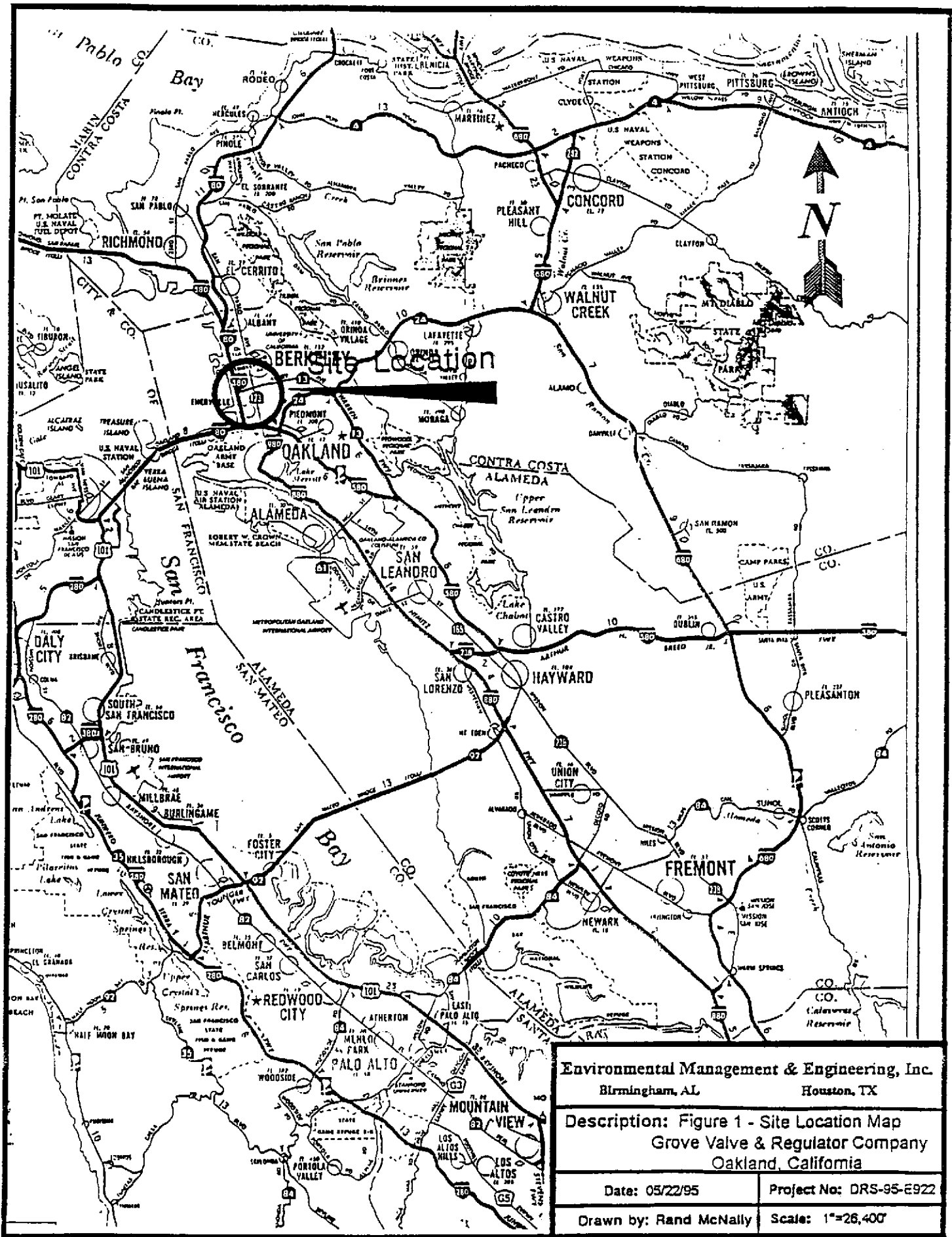
February 22, 1996

I. General Information

The Grove Valve & Regulator Company (Grove) facility is situated on approximately seven acres located at 6529 Hollis Street, Emeryville, California and has been involved in the development, manufacture and sale of valves and pressure regulators for the oil and gas industry. The area in which the facility is located is highly developed with manufacturing, warehouses, commercial offices, etc. Figure 1 is a facility site location map.

As a result of investigations of the soil and groundwater at the Grove Valve and Regulator Company of Emeryville, California, the Alameda County Health Care Services Agency Department of Environmental Health (ACDEH) requested a summary of the work to date including an overview as to whether further investigation of the site is warranted and, if so, a proposal for such. Quarterly monitoring of groundwater and reporting of results were also requested. Attachment 1 contains a copy of the referenced correspondence from the ACDEH. Environmental Management & Engineering, Inc. (EME) of Birmingham, Alabama produced the report, entitled "Groundwater/Soil Investigation Overview" and submitted it to the ACDEH in October of 1995. As requested by the ACDEH and proposed in the above referenced report, Grove has initiated a quarterly groundwater monitoring program.

The following is a description of the monitoring event for the first quarter of 1996 and summary of the project results to date.



Environmental Management & Engineering, Inc.	
Birmingham, AL	Houston, TX
Description: Figure 1 - Site Location Map Grove Valve & Regulator Company Oakland, California	
Date: 05/22/95	Project No: DRS-95-E922
Drawn by: Rand McNally	Scale: 1"=26,400'

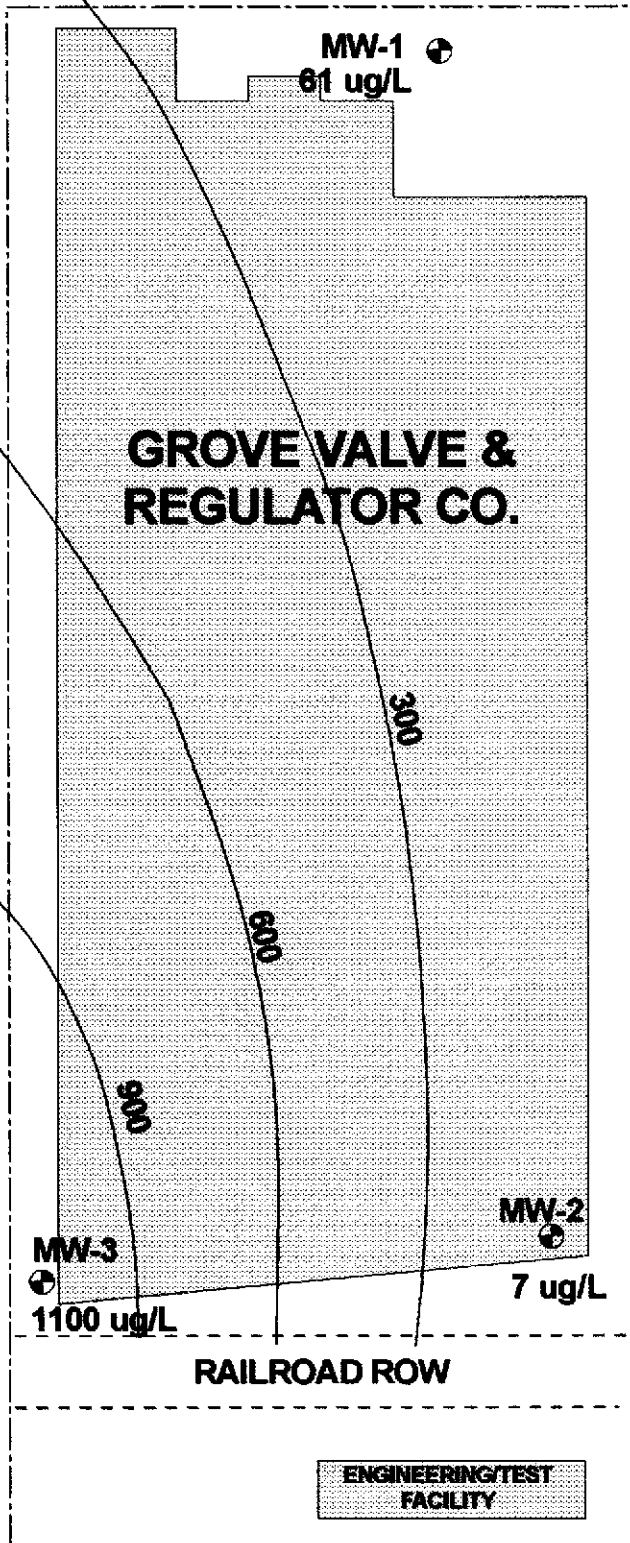
II. Quarterly Monitoring Activities

The sampling event was conducted on Wednesday, January 9, 1996, by Environmental Sampling Services of Lafayette, California. Static water levels and total well depth at the three monitoring wells were recorded and four casing volumes of water were evacuated from each well using a centrifugal pump and dedicated hoses. In addition to sampling each well, one duplicate sample was collected from monitoring well #3 for quality control purposes. A trip blank also accompanied the samples. All samples were transported under proper chain-of-custody to the American Environmental Network laboratory in Pleasant Hill, California for analysis for volatile organic compounds (VOC's). Attachment 2 is a copy of the Field Activity Report prepared by Environmental Sampling Services.

III. Quarterly Monitoring Results

Upon receipt of the analytical results for the January 1996 sampling event, it became apparent that the oil and grease parameter had been inadvertently omitted from the analysis request and that the VOC Method 8240 had been used rather than the 8010 and 8020 methods requested by the ACDEH. Mr. Kevin Holloran of EME notified Ms. Susan Hugo of the ACDEH of the discrepancy. Ms. Hugo stated that the parameters which were analyzed were sufficient for this event but that the requested parameters should be run for future quarterly monitoring events.

The analytical results of the January 1996 sampling event were consistent with those of previous events. The trichloroethene (TCE) concentration in the sample from MW-1 (the upgradient monitoring well) was 61 ug/L. The TCE concentration in the sample from MW-2 was 7 ug/L. The TCE concentrations in the sample and duplicate sample from MW-3 were 1400 and 1100 ug/L respectively. Figure 2 shows projected contaminant contours at the site based on these results. Laboratory reports, including QC/QA data and chain-of-custody documentation, for this event, as well as previous events, are



LEGEND



MONITORING WELL

61 ug/L

TCE CONCENTRATION
(SAMPLED 1/9/96)

ENVIRONMENTAL MANAGEMENT & ENGINEERING INC.

Birmingham, AL

Houston, TX

Description: **FIGURE 2**
TRICHLOROETHENE CONTAMINATION CONTOURS

Date: 2/19/96

Project No.: DRS-95-E942

Drawn By: TJS/MKH

Scale: NTS

presented as Attachment 3. Tabulated analytical results for all sampling events to date are presented in Table 1.

Static groundwater levels recorded during the January 1996 sampling event were also consistent with those of previous events. Groundwater flow direction and gradient is predominantly to the west toward San Francisco Bay. Figure 3 shows the groundwater gradient and flow direction based on these recorded levels. Tabulated historical static groundwater level readings are presented as Table 2.

In addition to quarterly groundwater monitoring, Grove conducts semi-annual discharge monitoring in accordance with East Bay Municipal Utilities District discharge requirements. Groundwater which infiltrates an elevator sump is discharged to the sanitary sewer after treatment by air-stripping. Grove collected both pre- and post-treatment samples on December 18, 1995. The pre-treatment sample was found to contain TCE at a concentration of 64 ug/L. The post-treatment sample did not contain detectable concentrations of any VOC's. As requested by Ms. Susan Hugo of the ACDEH, the analytical reports for the discharge monitoring event are included herein as Attachment 4.

IV. Summary and Recommendations

As mentioned previously, the results of the January 1996 monitoring event are consistent with those of previous sampling events. Both the analytical results and static groundwater level data continue to indicate that the groundwater contamination is a migrating slug of TCE from an off-site source(s). TCE concentrations in the upgradient monitoring well (MW-1) located adjacent to the facility property line, as well as in the upgradient elevator shaft sump remain elevated. Grove proposes continued quarterly monitoring until such time that there is a sufficient data base on which to draw further conclusions.

TABLE 1
SUMMARY OF GROUNDWATER SAMPLING ANALYTICAL RESULTS
(ug/l)

Grove Valve Regulator Co.	WS-1	WS-2	MW-1	MW-1	MW-4(ID)	MW-1	MW-1	MW-1	MW-1	MW-1	MW-1	MW-1R	MW-2	MW-2	MW-2	MW-2	MW-2	MW-2
Emeryville, CA	Apr-91	Apr-91	Mar-92	Oct-92	Oct-92	Feb-93	Apr-95	Aug-95	Sep-95	Nov-95	Jan-96	Mar-92	Mar-92	Oct-92	Feb-93	Apr-95	Aug-95	Sep-95
AROMATIC HYDROCARBONS																		
Benzene	NA	NA	ND	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND
Chlorobenzene	NA	NA	ND	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND
1,2 Dichlorobenzene	NA	NA	ND	NA	NA	ND	ND	NA	NA	NA	NA	ND	ND	NA	ND	ND	NA	NA
1,3 Dichlorobenzene	NA	NA	ND	NA	NA	ND	ND	NA	NA	NA	NA	ND	ND	NA	ND	ND	NA	NA
1,4 Dichlorobenzene	NA	NA	ND	NA	NA	ND	ND	NA	NA	NA	NA	ND	ND	NA	ND	ND	NA	NA
Ethylbenzene	NA	NA	ND	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND
Toluene	NA	NA	ND	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND
Xylene	NA	NA	ND	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND
HALOGENATED ORGANICS																		
Bromodichloromethane	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	1	ND	ND	ND	ND	ND	ND
Bromoform	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chlorethyl Vinyl Ether	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	36	ND	ND	ND	ND	ND	ND
Chloromethane	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1 Dichloroethane	ND	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3	2	2	2	ND	ND
1,2 Dichloroethane	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1 Dichloroethene	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	5	20	33	24	24	15	20	12	18	18	16	ND	2	1	2	0.9	ND	ND
trans-1,2-Dichloroethene	ND	3	12	8	8	5	7	ND	7	7	7	ND	ND	ND	ND	ND	ND	ND
1,2 Dichloropropane	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2 Tetrachloroethane	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1 Trichloroethane	120	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.6	0.8	ND	ND	ND	ND
1,1,2 Trichloroethane	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	160	180	103	99	98	53	79	46	54	61	61	ND	4	3	3	5	ND	ND
Trichlorofluoromethane	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2 Trichlorotrifluoroethane	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND = Not Detected D = Duplicate WS-1 - Elevator Shaft Sump Sample
NA = Not Analyzed R = Replicate WS-2 - X-ray Pit Sump Sample

TABLE 1
SUMMARY OF GROUNDWATER SAMPLING ANALYTICAL RESULTS
(ug/l)

Grove Valve Regulator Co.	WS-1	WS-2	MW-1	MW-1	MW-4(ID)	MW-1	MW-1	MW-1	MW-1	MW-1	MW-1	MW-1R	MW-2	MW-2	MW-2	MW-2	MW-2	MW-2
Emeryville, CA	Apr-91	Apr-91	Mar-92	Oct-92	Oct-92	Feb-93	Apr-95	Aug-95	Sep-95	Nov-95	Jan-96	Mar-92	Mar-92	Oct-92	Feb-93	Apr-95	Aug-95	Sep-95
PESTICIDES & PCB'S																		
Aldrin	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	NA	NA	NA
alpha-BHC	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	NA	NA	NA
beta-BHC	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	NA	NA	NA
delta-BHC	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	NA	NA	NA
gamma-BHC	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	NA	NA	NA
Chlordane	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	NA	NA	NA
4,4 DDD	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	NA	NA	NA
2,4 DDD	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	NA	NA	NA
4,4 DDE	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	NA	NA	NA
2,4 DDE	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	NA	NA	NA
4,4 DDT	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	NA	NA	NA
2,4 DDT	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	NA	NA	NA
Dieldrin	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	NA	NA	NA
Endosulfan I	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	NA	NA	NA
Endosulfan II	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	NA	NA	NA
Endosulfan Sulfate	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	NA	NA	NA
Endrin	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	NA	NA	NA
Endrin Aldehyde	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	NA	NA	NA
Heptachlor	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	NA	NA	NA
Heptachlor Epoxide	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	NA	NA	NA
Methoxychlor	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	NA	NA	NA
Toxaphene	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	NA	NA	NA
PCB-1016	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	NA	NA	NA
PCB-1221	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	NA	NA	NA
PCB-1232	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	NA	NA	NA
PCB-1242	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	NA	NA	NA
PCB-1248	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	NA	NA	NA
PCB-1254	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	NA	NA	NA
PCB-1260	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	NA	NA	NA
oil & grease (EPA Method 5520C)	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	NA	NA	NA
Hydrocarbons (EPA Method 5520F)	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	NA	NA	NA

ND = Not Detected D = Duplicate WS-1 - Elevator Shaft Sump Sample
NA = Not Analyzed R = Replicate WS-2 - X-ray Pit Sump Sample

TABLE 1
SUMMARY OF GROUNDWATER SAMPLING ANALYTICAL RESULTS
(ug/l)

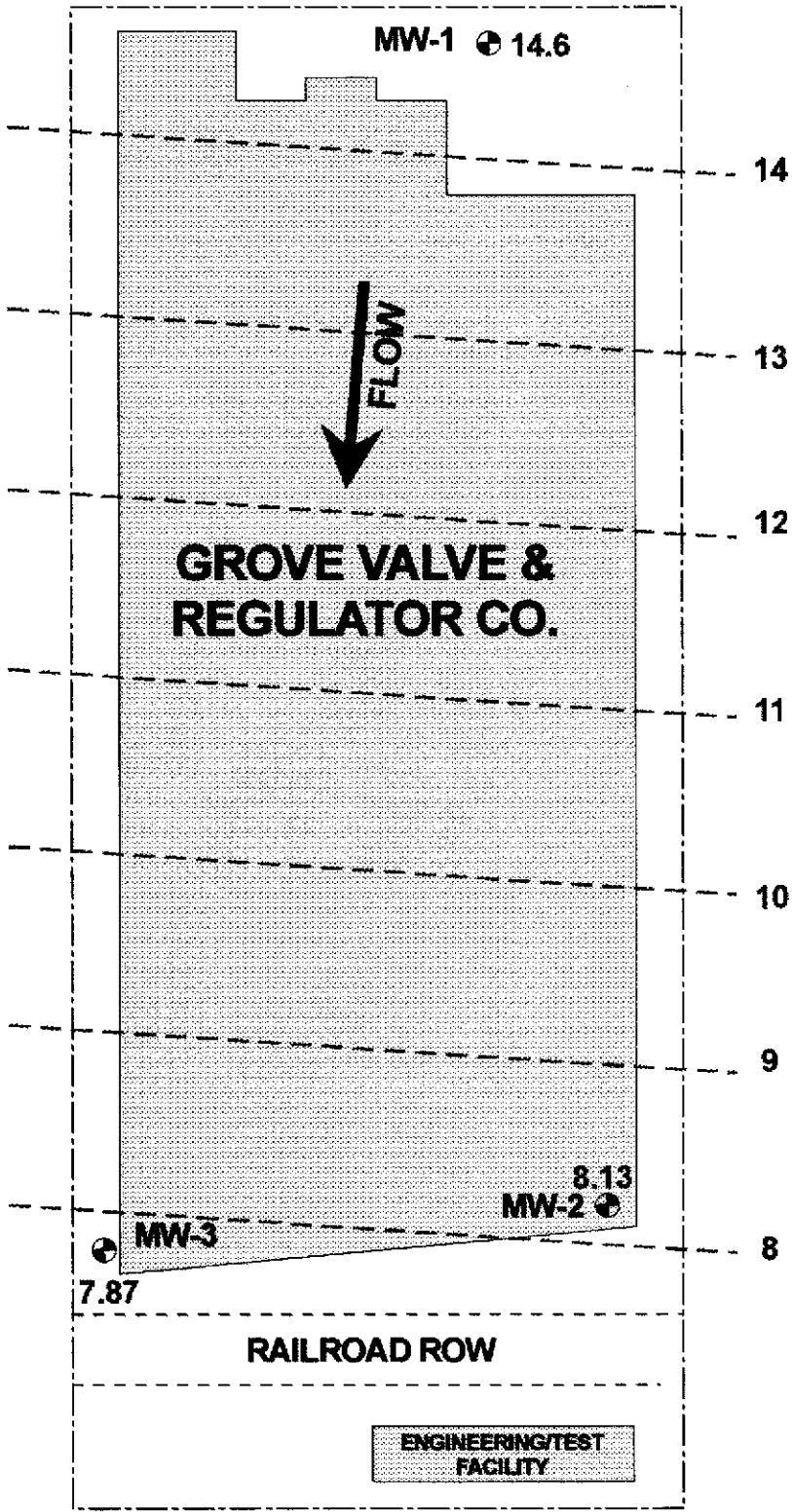
Grove Valve Regulator Co. Emeryville, CA	MW-2 Nov-95	MW-2 Jan-96	MW-2D Mar-92	MW-3 Mar-92	MW-3 Oct-92	MW-3 Feb-93	MW-3 Apr-95	MW-3 Aug-95	MW-3 Sep-95	MW-3 Nov-95	MW-3 Jan-96	MW-3D Sep-95	MW-3D Nov-95	MW-3D Jan-96
AROMATIC HYDROCARBONS														
Benzene	ND	ND	NA	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	ND	ND	NA	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2 Dichlorobenzene	NA	NA	NA	ND	NA	ND	ND	NA	NA	NA	NA	NA	NA	NA
1,3 Dichlorobenzene	NA	NA	NA	ND	NA	ND	ND	NA	NA	NA	NA	NA	NA	NA
1,4 Dichlorobenzene	NA	NA	NA	ND	NA	ND	ND	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	ND	ND	NA	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	ND	ND	NA	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylene	ND	ND	NA	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
HALOGENATED ORGANICS														
Bromodichloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chlorethyl Vinyl Ether	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	ND	ND	ND	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1 Dichloroethane	ND	ND	3	0.6	0.7	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2 Dichloroethane	ND	ND	ND	ND	0.6	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1 Dichloroethene	ND	ND	ND	2	1	1	1	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	ND	ND	2	18	13	13	28	19	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	1	1	ND	ND	ND	ND	ND	ND	ND
1,2 Dichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2 Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1 Trichloroethane	ND	ND	0.6	0.5	0.7	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2 Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	5	7	4	1300	1100	1200	800	1400	1200	1400	1400	1200	1200	1100
Trichlorofluoromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2 Trichlorotrifluoroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride	ND	ND	ND	5	2	3	9	ND	ND	ND	ND	ND	ND	ND

ND = Not Detected D = Duplicate WS-1 - Elevator Shaft Sump Sample
NA = Not Analyzed R = Replicate WS-2 - X-ray Pit Sump Sample

TABLE 1
SUMMARY OF GROUNDWATER SAMPLING ANALYTICAL RESULTS
(ug/l)

Grove Valve Regulator Co. Emeryville, CA	MW-2 Nov-95	MW-2 Jan-96	MW-2D Mar-92	MW-3 Mar-92	MW-3 Oct-92	MW-3 Feb-93	MW-3 Apr-95	MW-3 Aug-95	MW-3 Sep-95	MW-3 Nov-95	MW-3 Jan-96	MW-3D Sep-95	MW-3D Nov-95	MW-3D Jan-96
PESTICIDES & PCB'S														
Aldrin	NA	NA	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
alpha-BHC	NA	NA	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
beta-BHC	NA	NA	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
delta-BHC	NA	NA	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
gamma-BHC	NA	NA	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlordane	NA	NA	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4,4 DDD	NA	NA	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4 DDD	NA	NA	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4,4 DDE	NA	NA	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4 DDE	NA	NA	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4,4 DDT	NA	NA	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4 DDT	NA	NA	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dieldrin	NA	NA	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Endosulfan I	NA	NA	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Endosulfan II	NA	NA	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Endosulfan Sulfate	NA	NA	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Endrin	NA	NA	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Endrin Aldehyde	NA	NA	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Heptachlor	NA	NA	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Heptachlor Epoxide	NA	NA	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methoxychlor	NA	NA	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Toxaphene	NA	NA	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCB-1016	NA	NA	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCB-1221	NA	NA	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCB-1232	NA	NA	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCB-1242	NA	NA	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCB-1248	NA	NA	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCB-1254	NA	NA	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCB-1260	NA	NA	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
oil & grease (EPA Method 5520C)	NA	NA	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hydrocarbons (EPA Method 5520F)	NA	NA	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ND = Not Detected D = Duplicate WS-1 - Elevator Shaft Sump Sample
NA = Not Analyzed R = Replicate WS-2 - X-ray Pit Sump Sample



GROUNDWATER CONTOURS
AND ELEVATIONS (FEET MSL)
JANUARY 9, 1996

ENVIRONMENTAL MANAGEMENT & ENGINEERING INC.	
Birmingham, AL	Houston, TX
Description: FIGURE 3 GROUNDWATER LEVELS AND GRADIENT	
Date: 2/19/96	Project No.: DRS-95-E942
Drawn By: MKH	Scale: NTS

TABLE 2
STATIC WATER LEVEL READINGS
GROVE VALVE AND REGULATOR COMPANY

WELL	DATE	TOC	WLR	SWL
MW-1	3/2/92	20.72	4.28	16.44
	3/26/92		4.89	15.83
	10/15/92		7.22	13.5
	8/18/95		8.52	12.2
	9/14/95		6.71	14.01
	11/17/95		7.03	13.69
	1/9/96		6.12	14.6
MW-2	3/2/92	15.95	7.9	8.05
	3/26/92		6.1	9.85
	10/15/92		7.42	8.53
	8/18/95		6.65	9.3
	9/14/95		8.16	7.79
	11/17/95		8.94	7.01
	1/9/96		7.82	8.13
MW-3	3/2/92	16.95	9.22	7.76
	3/26/92		8.38	8.6
	10/15/92		9.32	7.66
	8/18/95		9.28	7.7
	9/14/95		9	7.95
	11/14/95		9.3	7.68
	1/9/96		9.08	7.87

NOTE: TOC = TOP OF CASING, FEET ABOVE MEAN SEA LEVEL
WLR = WATER LEVEL READING, FEET
SWL = STATIC WATER LEVEL, FEET ABOVE MEAN SEA LEVEL

V. Qualifications of Lead Professionals

Founder and President of EME, Dr. Gene Gonsoulin has over twenty-five years of Environmental and Natural Resource Management education and work experience and has provided services to numerous major industry projects, industry trade organizations, and state and federal governmental agencies. He has honed a broad array of specialized skills that provides sound environmental and natural resource management consulting and professional guidance for EME's technical staff. Included in his work experience are many years of direct employment/involvement in the oil and gas, drilling, production and natural gas transmission industry for domestic and international operations as well as continuing consulting work for a number of large companies both here and abroad.

Mr. Kevin Holloran, an Environmental Specialist with EME, has ten (10) years experience in the environmental field in both the regulatory and consulting aspects of the industry. He has extensive experience in the performance of environmental site assessments including both regulatory research and site work in the United States, Canada, Scotland, England and Belgium.

Ms. Robin Spencer has 15 years experience in the environmental engineering field. She is a Certified Hazardous Materials Manager and a Registered Environmental Assessor in the State of California.

Ms. Elyse Heilshorn is a consulting environmental engineer and a registered civil engineer (No. C036567) in the State of California, a Certified Hazardous Materials Manager, and a Registered Environmental Assessor. She has 18 years experience in the environmental field as an engineer and a chemist.

Gene Gonsoulin

Gene Gonsoulin, Ph.D, President
Environmental Management &
Engineering, Inc.

Kevin Holloran

Kevin Holloran, Environmental Specialist
Environmental Management &
Engineering, Inc.

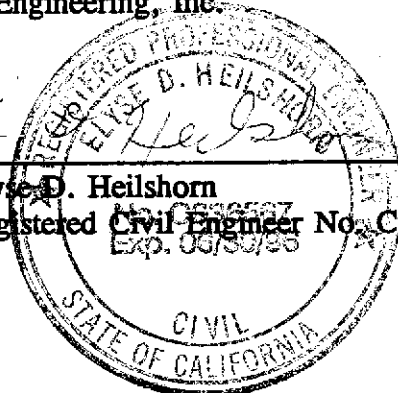
Robin K. Spencer

Robin K. Spencer, CHMM, R.E.A.



Elyse D. Heilshorn

Elyse D. Heilshorn
Registered Civil Engineer No. C036567



(Seal)

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY



FAXED

JUL 7 - 1995

cc: Bill Tallent

DAVID J. KEARS, Agency Director

RAFAT A. SHAHID, DIRECTOR

June 29, 1995

Grove Valve and
Regulator Company
Executive Office

DEPARTMENT OF ENVIRONMENTAL HEALTH
State Water Resources Control Board
Division of Clean Water Programs
UST Local Oversight Program
1131 Harbor Bay Parkway
Alameda, CA 94502-6577
(510) 567-6700

Mr. Kenneth Banks
Grove Valve and Regulator Company
6529 Hollis Street
Emeryville, California 94608

RE: Soil and Groundwater Contamination at Grove Valve and
Regulator Company - 6529 Hollis Street, Emeryville, CA 94608

Dear Mr. Banks:

The Alameda County Department of Environmental Health, Environmental Protection Division has recently reviewed the Work Plan - Status of Environmental Investigation of Soil and Groundwater (April 1995) prepared by Robin Spencer for the referenced site.

The following are issues that must be addressed regarding the soil and groundwater investigation at the subject site:

- 1) The extent of the soil and groundwater contamination remains undefined. The latest sampling event (April 1995) revealed that the three on site monitoring wells detected trichloroethene (TCE) up to 800 ppb in MW-3 which appeared to be the downgradient well. Vinyl chloride (9 ppb) and dichloroethene (28 ppb) were also detected in MW-3. A work plan must be submitted to determine the vertical and lateral extent of the soil and groundwater contamination.
- 2) The source of the soil and groundwater contamination at the site must be identified. Review of our files for the subject site indicated that chlorinated solvents (1,1,1 trichloroethane) had been used at the site.
- 3) Monitoring well MW-4 showed 98 ppb trichloroethene during the 10/15/92 sampling event. Please provide any other existing groundwater data for this well including copies of the boring log and monitoring well construction diagram. Additionally, the location of the well (MW-4) must be identified in the site map.
- 4) All the wells must be sampled every quarter and analyzed for the following target compounds: TPH as oil and grease, aromatic volatile hydrocarbons (8020) and halogenated volatile organics (8010).
- 5) Groundwater elevation must be measured and incorporated in the quarterly monitoring program to verify groundwater flow direction at the subject site.

Response to all the issues mentioned above including the work plan submittal must be provided to this office no later than August 21, 1995.

Mr. Kenneth Banks
RE: 6529 Hollis Street, Emeryville CA 94608
June 29, 1995
Page 2 of 2

Until cleanup is complete, you will need to submit quarterly reports to this office and the following items must be incorporated in your future reports or workplans:

- a cover letter from the responsible party stating the accuracy of the report and whether he/she concurs with the conclusions and recommendations in the report or workplan
- site map delineating contamination contours for soil and groundwater based on recent data should be included and the status of the investigation and cleanup must be identified
- proposed continuing or next phase of investigation / cleanup activities must be included to inform this department of the responsible party's intention
- any changes in the groundwater flow direction and gradient based on the measured data since the last sampling event must be explained
- historical records of groundwater level in each well must be tabulated to indicate the fluctuation in water levels
- tabulate analytical results from all previous sampling events; provide laboratory reports (including quality control/quality assurance) and chain of custody documentation

All reports and proposals must be submitted under seal of a California Registered Geologist or Registered Civil Engineer with a statement of qualifications for each lead professionals involved with the project.

Please contact me at (510) 567-6780 if you have any questions concerning this letter.

Sincerely,

Susan L. Hugo

Susan L. Hugo
Senior Hazardous Materials Specialist

cc: Rafat A. Shahid, Director, Environmental Health
Jun Makishima, Acting Chief, Environmental Protection
Division / file
Gil Jensen, Alameda County District Attorney's Office
Sum Arigala, San Francisco Bay RWQCB
Robin Spencer, 6 Via San Inigo, Orinda, CA 94563

ATTACHMENT 2 – "Field Activity Report"
Environmental Sampling
Services, January 1996

FIELD ACTIVITY REPORT
FOR
JANUARY 1996 QUARTERLY SAMPLING
AT GROVE VALVE AND REGULATOR COMPANY,
EMERYVILLE, CALIFORNIA

Prepared for: Grove Valve and Regulator Company
11100 W. Airport Boulevard
Stafford, TX 77477-3014

By: Environmental Sampling Services
443 Donegal Way
Lafayette, California 94549

Date Prepared: January 18, 1996

FIELD ACTIVITY REPORT
FOR JANUARY 1996 QUARTERLY
GROUNDWATER MONITORING AT
GROVE VALVE AND REGULATOR COMPANY, EMERYVILLE, CA

ESS Personnel: Jacki Lee & Stephen Penman
Duration of Activities: January 9, 1996

Water Level Measurements

Static water level and total well depth of three monitoring well were measured prior to well evacuation. Water level and total well depth measurements were referenced to the surveyor's mark on the well casing (Table 1). All readings were performed with an electrical water level indicator.

Sampling Procedures

Three monitoring wells (MW-1, MW-2, and MW-3) were purged and sampled. The monitoring wells were evacuated by using a centrifugal pump and dedicated suction hose. Following evacuation of four casing volumes, each monitoring well was sampled for EPA Method 8240.

All samples were collected into pre-labeled, laboratory-supplied sample containers. All samples were submitted to American Environmental Network in Pleasant Hill, California.

A length of suction hose is dedicated for each well. Each length of hose is stored in labeled plastic bags and kept on site for future use.

QA/QC

As directed by Grove Valve and Regulator, one QA/QC sample was collected. A duplicate of monitoring well, MW-3 was collected and labeled "MW-3-DUP". In addition, a travel blank for EPA Method 8240 was supplied by the laboratory. The trip blank remained with sample containers throughout the sampling event. All samples were inserted into glass protection material, sealed in ziplock bags, and placed in a chilled ice chest for storage and shipment.

ENVIRONMENTAL
SAMPLING
SERVICES (ESS)

443 Donegal Way
Lafayette, CA 94549
Tel/Fax: (510) 372-8108

Chain of Custody (COC) Forms

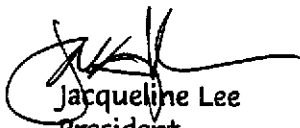
All sampling and sample handling were conducted under strict chain of custody procedures. The COC included an analysis request section, sample date and time, and well identification. A carbon copy of the COC is enclosed.

A copy of the results are to be faxed to Environmental Management and Engineering Inc., attention Gene Gonsoulin at (205)940-7701, as requested by Grove Valve and Regulator Co.

Disposal of Purged Groundwater

The Groundwater generated from well purging was discharged and stored into three 55 gallon drums, and labeled by Environmental Sampling Services' personnel.

All work was performed under satisfactory workmanship and according to Grove Valve and Regulator's directive.


Jacqueline Lee
President

enci

Table 1
Chain of Custody
Well Sample Log Sheets

ENVIRONMENTAL
SAMPLING
SERVICES (ESS)

443 Donegal Way
Lafayette, CA 94549
Tel/Fax: (510) 372-8108

TABLE 1: SUMMARY OF JANUARY 1996 QUARTERLY
GROUNDWATER MONITORING AT
GROVE VALVE AND REGULATOR COMPANY,
EMERYVILLE, CA

Well I.D.	Initial Water Level (ft) (measured 1/9/96)	Total Well Depth (ft)	Total Gallons Removed	Equivalent Casing Volume
MW-1	6.12	24.94	51	4.2
MW-2	7.82	24.32	53	5.0
MW-3	9.08	24.84	50	4.9

Environmental Sampling Services
WELL SAMPLE LOG SHEET

Well Identification: MW-1
Date(s): 1-9-96

Project Name: _____ Client Project Number: Grease Valve & Regulator Co.
Well Description: 2" 4" 6" Well Type: PVC Stainless Steel
Is well secured? YES / NO Type of lock / lock number: Dolphin / 1600
Observations/Comments: _____

Purge Method: Teflon Disposable Bailer Centrifugal pump GRUNDFOS Redi-flow pump Other: _____

Pump lines: NEW / CLEANED Bailer lines: NEW / CLEANED

Method of cleaning pump: Alconox Liquidnox Tap Water DI Rinse Other: _____

Method of cleaning bailer: Alconox Liquidnox Tap Water DI Rinse Other: _____

Sampling Method: Teflon Disp. Tef. bailer Disp. PVC bailer Redi-Flow 2 pump Other: _____

pH Meter Serial Number: 217254 @ 7 10 Specific Conductance Meter Serial Number: F8016591

Date(s) Calibrated: 1/9/97 Specific Conductance Meter Red-lined: YES / NO

Method to measure water level: Solist Product Thickness: NA

Water Level at Start: 6.12 Water Level Prior to Sampling: 9.75

TD = 24.94 minus 6.12 = 18.82 times "k" = 12.3 gallons/one casing volume
12.3 times 4 = 49.2 gallons for 4 casing volumes
"k" = 0.163 (2" well) "k" = 0.653 (4" well) "k" = 1.46 (6" well)

FIELD WATER QUALITY PARAMETERS

Date	Time	Discharge (gallons)	pH	Temp. (°C)	Specific Conductance (umhos/cm)	Turbidity (NTU's)	Color	Comments
1/9/96	9:31	10	6.36	18	920	17.9	Clear	
	9:35	20	6.46	18.5	1050	30.5	Slightly cloudy	
	9:39	30	6.41	18.8	1080	37.3	"	
	9:52	40	6.59	18.3	1100	31.3	"	
✓	9:57	50	6.58	18.6	1050	119	Cloudy Lt. Brown	
	10:18	A.S.	6.71	18.4	1010	45.4	"	
1/9/96		Aft. Sampl						

Total Discharge: 51 gallons Casing Volumes Removed: 4.2

Method of disposal of discharged water: 55 gallon Drum

Date/Time sampled: 1/9/96 @ 10:15 Analysis: EPA Method 8240

Comments: _____

QA/QC: NONE @ _____ as Eq. Blank Duplicate MS/MSD Split

Sampled By: S. Penner / J. Lee

Environmental Sampling Services
443 Donegal Way, Lafayette, CA 94549
Tel/Fax: (510) 372-8108

Environmental Sampling Services
WELL SAMPLE LOG SHEET

Well Identification: MW-2
Date(s): 1-9-96

Project Name: Grove Valve Client Project Number: PB6108
Well Description: 2" (4) 6" Well Type: PVC Stainless Steel
Is well secured? (YES) / NO Type of lock / lock number: Dolphin
Observations/Comments: _____

Purge Method: Teflon Disposable Bailer (centrifugal pump) GRUNDFOS Redi-flow pump Other: _____

Pump lines: NEW / (CLEANED) Bailer lines: (NEW) / CLEANED

Method of cleaning pump: Alconox Liquidnox Tap Water DI Rinse Other: _____

Method of cleaning bailer: Alconox Liquidnox Tap Water (DI Rinse) Other: _____

Sampling Method: Teflon Disp. Tef. bailer (Disp. PVC bailer) Redi-Flow 2 pump Other: _____

pH Meter Serial Number: 217254 (4) (7) 10 Specific Conductance Meter Serial Number: F8016591

Date(s) Calibrated: 1/9/96 Specific Conductance Meter Red-lined: (YES) / NO

Method to measure water level: Solinst Product Thickness: NA

Water Level at Start: 7.82 Water Level Prior to Sampling: _____

TD = 24.32 minus 7.82 = 16.5 times "k" = 10.7 gallons/one casing volume
10.7 times 4 = 43 gallons for 4 casing volumes
"k" = 0.163 (2" well) "k" = 0.653 (4" well) "k" = 1.46 (6" well)

FIELD WATER QUALITY PARAMETERS

Date	Time	Discharge (gallons)	pH	Temp. (°C)	Specific Conductance (umhos/cm)	Turbidity (NTU's)	Color	Comments
1/9/96	10:44	8	6.69	17.9	3120	85	cloudy	
	10:37	16	6.66	18.0	3300	112	"	dry @ 18 gal.
	11:08	24	6.63	18.8	3400	70	"	
	11:11	32	6.61	18.8	3480	155	"	dry @ 33 gal
	11:50	40	6.73	18.4	3330	75	"	
	11:54	48	6.63	18.8	3310	189	"	
	11:57	53	6.66	18.2	3310	146	"	
	12:32	Aft. Sample	6.12	7.8	3300	30.0		

Total Discharge: 53 gallons Casing Volumes Removed: 4.95

Method of disposal of discharged water: To labelled barrel

Date/Time sampled: 1/9/96 @ 1230 Analysis: 8240

Comments: _____

QA/QC: NONE @ R. as Eq. Blank Duplicate MS/MSD Split

Sampled By: JL/SP

Environmental Sampling Services
443 Donegan Way, Lafayette, CA 94549
Tel/Fax: (510) 372-8108

Environmental Sampling Services
WELL SAMPLE LOG SHEET

Well Identification: MW-3
Date(s): 1-9-96

Project Name: ~~PB6108~~ Grove Valve Client Project Number: PB6108
Well Description: 2" 4" 6" Well Type: PVC Stainless Steel
Is well secured? YES / (NO) Type of lock / lock number: Dolphin - Corroded; need
Observations/Comments: Replacement lock

Purge Method: Teflon Disposable Bailer centrifugal pump GRUNDFOS Redi-flow pump Other: _____
Pump lines: NEW / CLEANED Bailer lines: NEW / CLEANED
Method of cleaning pump: Alconox Liquidnox Tap Water DI Rinse Other: _____
Method of cleaning bailer: Alconox Liquidnox Tap Water DI Rinse Other: _____

Sampling Method: Teflon Disp. Tef. bailer Disp. PVC bailer Redi-Flow 2 pump Other: _____
pH Meter Serial Number: 217254 4 7 10 Specific Conductance Meter Serial Number: _____
Date(s) Calibrated: 1-9-96 Specific Conductance Meter Red-lined: (YES) / NO
Method to measure water level: Solinst Product Thickness: NA
Water Level at Start: 9.08 Water Level Prior to Sampling: 12.00

TD = 24.94 minus 1.08 = 15.76 times "k" = 10.29 gallons/one casing volume
10.29 times 4 = 41.1 gallons for _____ casing volumes
"k" = 0.163 (2" well) "k" = 0.653 (4" well) "k" = 1.46 (6" well)

FIELD WATER QUALITY PARAMETERS

Date	Time	Discharge (gallons)	pH	Temp. (°C)	Specific Conductance (umhos/cm)	Turbidity (NTU's)	Color	Comments
<u>1/9/96</u>	<u>10:55</u>	<u>8</u>	<u>6.72</u>	<u>17.5</u>	<u>3010</u>	<u>78.4</u>	<u>lt gray cloudy</u>	
	<u>10:59</u>	<u>16</u>	<u>6.55</u>	<u>18.0</u>	<u>3110</u>	<u>146</u>	<u>"</u>	
	<u>11:02</u>	<u>24</u>	<u>6.50</u>	<u>18.0</u>	<u>3110</u>	<u>165</u>	<u>"</u>	<u>dry @ 25</u>
	<u>11:17</u>	<u>32</u>	<u>6.36</u>	<u>18.0</u>	<u>3030</u>	<u>105</u>	<u>"</u>	<u>" " 35</u>
	<u>11:34</u>	<u>40</u>	<u>6.60</u>	<u>17.8</u>	<u>3080</u>	<u>59</u>	<u>"</u>	
<u>✓</u>	<u>11:39</u>	<u>48</u>	<u>6.50</u>	<u>17.8</u>	<u>3090</u>	<u>333</u>	<u>lt green brown</u>	
<u>1/9/96</u>	<u>12:12</u>	<u>Aft. Sample</u>	<u>6.59</u>	<u>17.8</u>	<u>3080</u>	<u>24</u>	<u>Slightly Cloudy</u>	

Total Discharge: 50 gallons Casing Volumes Removed: 4.9
Method of disposal of discharged water: to labeled barrel
Date/Time sampled: 1/9/96 8:12:05 Analysis: EPA 8240

Comments: _____
QA/QC: MW-3 Duplicates @ 1205 as Eq. Blank Duplicate MS/MSD Split
Sampled By: JH

Environmental Sampling Services
443 Donegal Way, Lafayette, CA 94549
Tel/Fax: (510) 372-8108

**ATTACHMENT 3 – Laboratory Analytical
Reports for Groundwater
Monitoring Events**

American Environmental Network

Certificate of Analysis

AIHA Accreditation: 11134

DOHS Certification: 1172

PAGE 1

GROVE VALVE & REGULATOR CO.
6529 HOLLIS STREET
EMERYVILLE, CA 94608

REPORT DATE: 09/06/95

DATE(S) SAMPLED: 08/18/95

DATE RECEIVED: 08/18/95

AEN WORK ORDER: 9508245

ATTN: BILL TALLENT
CLIENT PROJ. ID: -

P.O. NUMBER: PB55786

PROJECT SUMMARY:

On August 18, 1995, this laboratory received 3 water sample(s).

Client requested sample(s) be analyzed for organic parameters. Results of analysis are summarized on the following page(s). Please see quality control report for a summary of QC data pertaining to this project.

Samples will be stored for 30 days after completion of analysis, then disposed of in accordance with State and Federal regulations. Samples may be archived by prior arrangement.

If you have any questions, please contact Client Services at (510) 930-9090.



Larry Klein
Laboratory Director

GROVE VALVE & REGULATOR CO.

SAMPLE ID: MW-1
 AEN LAB NO: 9508245-01
 AEN WORK ORDER: 9508245
 CLIENT PROJ. ID: -

DATE SAMPLED: 08/18/95
 DATE RECEIVED: 08/18/95
 REPORT DATE: 09/06/95

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
VOCs in Water by 8240	EPA 8240				
Acetone	67-64-1	ND	100	ug/L	08/23/95
Benzene	71-43-2	ND	5	ug/L	08/23/95
Bromodichloromethane	75-27-4	ND	5	ug/L	08/23/95
Bromoform	75-25-2	ND	5	ug/L	08/23/95
Bromomethane	74-83-9	ND	10	ug/L	08/23/95
2-Butanone	78-93-3	ND	100	ug/L	08/23/95
Carbon Disulfide	75-15-0	ND	10	ug/L	08/23/95
Carbon Tetrachloride	56-23-5	ND	5	ug/L	08/23/95
Chlorobenzene	108-90-7	ND	5	ug/L	08/23/95
Chloroethane	75-00-3	ND	10	ug/L	08/23/95
2-Chloroethyl Vinyl Ether	110-75-8	ND	10	ug/L	08/23/95
Chloroform	67-66-3	ND	5	ug/L	08/23/95
Chloromethane	74-87-3	ND	10	ug/L	08/23/95
Dibromochloromethane	124-48-1	ND	5	ug/L	08/23/95
1,1-Dichloroethane	75-34-3	ND	5	ug/L	08/23/95
1,2-Dichloroethane	107-06-2	ND	5	ug/L	08/23/95
1,1-Dichloroethene	75-35-4	ND	5	ug/L	08/23/95
cis-1,2-Dichloroethene	156-59-2	12 *	5	ug/L	08/23/95
trans-1,2-Dichloroethene	156-60-5	ND	5	ug/L	08/23/95
1,2-Dichloropropane	78-87-5	ND	5	ug/L	08/23/95
cis-1,3-Dichloropropene	10061-01-5	ND	5	ug/L	08/23/95
trans-1,3-Dichloropropene	10061-02-6	ND	5	ug/L	08/23/95
Ethylbenzene	100-41-4	ND	5	ug/L	08/23/95
2-Hexanone	591-78-6	ND	50	ug/L	08/23/95
Methylene Chloride	75-09-2	ND	20	ug/L	08/23/95
4-Methyl-2-pentanone	108-10-1	ND	50	ug/L	08/23/95
Styrene	100-42-5	ND	5	ug/L	08/23/95
1,1,2,2-Tetrachloroethane	79-34-5	ND	5	ug/L	08/23/95
Tetrachloroethene	127-18-4	ND	5	ug/L	08/23/95
Toluene	108-88-3	ND	5	ug/L	08/23/95
1,1,1-Trichloroethane	71-55-6	ND	5	ug/L	08/23/95
1,1,2-Trichloroethane	79-00-5	ND	5	ug/L	08/23/95
Trichloroethene	79-01-6	46 *	5	ug/L	08/23/95
Vinyl Acetate	108-05-4	ND	50	ug/L	08/23/95
Vinyl Chloride	75-01-4	ND	10	ug/L	08/23/95
Xylenes, Total	1330-20-7	ND	10	ug/L	08/23/95

ND = Not detected at or above the reporting limit

* = Value at or above reporting limit

GROVE VALVE & REGULATOR CO.

SAMPLE ID: MW-2
 AEN LAB NO: 9508245-02
 AEN WORK ORDER: 9508245
 CLIENT PROJ. ID: -

DATE SAMPLED: 08/18/95
 DATE RECEIVED: 08/18/95
 REPORT DATE: 09/06/95

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
VOCs in Water by 8240	EPA 8240				
Acetone	67-64-1	ND	100	ug/L	08/23/95
Benzene	71-43-2	ND	5	ug/L	08/23/95
Bromodichloromethane	75-27-4	ND	5	ug/L	08/23/95
Bromoform	75-25-2	ND	5	ug/L	08/23/95
Bromomethane	74-83-9	ND	10	ug/L	08/23/95
2-Butanone	78-93-3	ND	100	ug/L	08/23/95
Carbon Disulfide	75-15-0	ND	10	ug/L	08/23/95
Carbon Tetrachloride	56-23-5	ND	5	ug/L	08/23/95
Chlorobenzene	108-90-7	ND	5	ug/L	08/23/95
Chloroethane	75-00-3	ND	10	ug/L	08/23/95
2-Chloroethyl Vinyl Ether	110-75-8	ND	10	ug/L	08/23/95
Chloroform	67-66-3	ND	5	ug/L	08/23/95
Chloromethane	74-87-3	ND	10	ug/L	08/23/95
Dibromochloromethane	124-48-1	ND	5	ug/L	08/23/95
1,1-Dichloroethane	75-34-3	ND	5	ug/L	08/23/95
1,2-Dichloroethane	107-06-2	ND	5	ug/L	08/23/95
1,1-Dichloroethene	75-35-4	ND	5	ug/L	08/23/95
cis-1,2-Dichloroethene	156-59-2	ND	5	ug/L	08/23/95
trans-1,2-Dichloroethene	156-60-5	ND	5	ug/L	08/23/95
1,2-Dichloropropane	78-87-5	ND	5	ug/L	08/23/95
cis-1,3-Dichloropropene	10061-01-5	ND	5	ug/L	08/23/95
trans-1,3-Dichloropropene	10061-02-6	ND	5	ug/L	08/23/95
Ethylbenzene	100-41-4	ND	5	ug/L	08/23/95
2-Hexanone	591-78-6	ND	50	ug/L	08/23/95
Methylene Chloride	75-09-2	ND	20	ug/L	08/23/95
4-Methyl-2-pentanone	108-10-1	ND	50	ug/L	08/23/95
Styrene	100-42-5	ND	5	ug/L	08/23/95
1,1,2,2-Tetrachloroethane	79-34-5	ND	5	ug/L	08/23/95
Tetrachloroethene	127-18-4	ND	5	ug/L	08/23/95
Toluene	108-88-3	ND	5	ug/L	08/23/95
1,1,1-Trichloroethane	71-55-6	ND	5	ug/L	08/23/95
1,1,2-Trichloroethane	79-00-5	ND	5	ug/L	08/23/95
Trichloroethene	79-01-6	ND	5	ug/L	08/23/95
Vinyl Acetate	108-05-4	ND	50	ug/L	08/23/95
Vinyl Chloride	75-01-4	ND	10	ug/L	08/23/95
Xylenes, Total	1330-20-7	ND	10	ug/L	08/23/95

ND = Not detected at or above the reporting limit
 * = Value at or above reporting limit

GROVE VALVE & REGULATOR CO.

SAMPLE ID: MW-3
 AEN LAB NO: 9508245-03
 AEN WORK ORDER: 9508245
 CLIENT PROJ. ID: -

DATE SAMPLED: 08/18/95
 DATE RECEIVED: 08/18/95
 REPORT DATE: 09/06/95

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
VOCs in Water by 8240	EPA 8240				
Acetone	67-64-1	ND	100	ug/L	08/23/95
Benzene	71-43-2	ND	5	ug/L	08/23/95
Bromodichloromethane	75-27-4	ND	5	ug/L	08/23/95
Bromoform	75-25-2	ND	5	ug/L	08/23/95
Bromomethane	74-83-9	ND	10	ug/L	08/23/95
2-Butanone	78-93-3	ND	100	ug/L	08/23/95
Carbon Disulfide	75-15-0	ND	10	ug/L	08/23/95
Carbon Tetrachloride	56-23-5	ND	5	ug/L	08/23/95
Chlorobenzene	108-90-7	ND	5	ug/L	08/23/95
Chloroethane	75-00-3	ND	10	ug/L	08/23/95
2-Chloroethyl Vinyl Ether	110-75-8	ND	10	ug/L	08/23/95
Chloroform	67-66-3	ND	5	ug/L	08/23/95
Chloromethane	74-87-3	ND	10	ug/L	08/23/95
Dibromochloromethane	124-48-1	ND	5	ug/L	08/23/95
1,1-Dichloroethane	75-34-3	ND	5	ug/L	08/23/95
1,2-Dichloroethane	107-06-2	ND	5	ug/L	08/23/95
1,1-Dichloroethene	75-35-4	ND	5	ug/L	08/23/95
cis-1,2-Dichloroethene	156-59-2	19 *	5	ug/L	08/23/95
trans-1,2-Dichloroethene	156-60-5	ND	5	ug/L	08/23/95
1,2-Dichloropropane	78-87-5	ND	5	ug/L	08/23/95
cis-1,3-Dichloropropene	10061-01-5	ND	5	ug/L	08/23/95
trans-1,3-Dichloropropene	10061-02-6	ND	5	ug/L	08/23/95
Ethylbenzene	100-41-4	ND	5	ug/L	08/23/95
2-Hexanone	591-78-6	ND	50	ug/L	08/23/95
Methylene Chloride	75-09-2	ND	20	ug/L	08/23/95
4-Methyl-2-pentanone	108-10-1	ND	50	ug/L	08/23/95
Styrene	100-42-5	ND	5	ug/L	08/23/95
1,1,2,2-Tetrachloroethane	79-34-5	ND	5	ug/L	08/23/95
Tetrachloroethene	127-18-4	ND	5	ug/L	08/23/95
Toluene	108-88-3	ND	5	ug/L	08/23/95
1,1,1-Trichloroethane	71-55-6	ND	5	ug/L	08/23/95
1,1,2-Trichloroethane	79-00-5	ND	5	ug/L	08/25/95
Trichloroethene	79-01-6	1,400 *	5	ug/L	08/23/95
Vinyl Acetate	108-05-4	ND	50	ug/L	08/23/95
Vinyl Chloride	75-01-4	ND	10	ug/L	08/23/95
Xylenes, Total	1330-20-7	ND	10	ug/L	08/23/95

ND = Not detected at or above the reporting limit
 * = Value at or above reporting limit

AEN (CALIFORNIA)
QUALITY CONTROL REPORT

AEN JOB NUMBER: 9508245

CLIENT PROJECT ID: -

Quality Control and Project Summary

All laboratory quality control parameters were found to be within established limits.

Definitions

Laboratory Control Sample (LCS)/Method Spike(s): Control samples of known composition. LCS and Method Spike data are used to validate batch analytical results.

Matrix Spike(s): Aliquot of a sample (aqueous or solid) with added quantities of specific compounds and subjected to the entire analytical procedure. Matrix spike and matrix spike duplicate QC data are advisory.

Method Blank: An analytical control consisting of all reagents, internal standards, and surrogate standards carried through the entire analytical process. Used to monitor laboratory background and reagent contamination.

Not Detected (ND): Not detected at or above the reporting limit.

Relative Percent Difference (RPD): An indication of method precision based on duplicate analysis.

Reporting Limit (RL): The lowest concentration routinely determined during laboratory operations. The RL is generally 1 to 10 times the Method Detection Limit (MDL). Reporting limits are matrix, method, and analyte dependent and take into account any dilutions performed as part of the analysis.

Surrogates: Organic compounds which are similar to analytes of interest in chemical behavior, but are not found in environmental samples. Surrogates are added to all blanks, calibration and check standards, samples, and spiked samples. Surrogate recovery is monitored as an indication of acceptable sample preparation and instrumental performance.

D: Surrogates diluted out.

#: Indicates result outside of established laboratory QC limits.

QUALITY CONTROL DATA

METHOD: EPA 8240

AEN JOB NO: 9508245
INSTRUMENT: 13
MATRIX: WATER

Surrogate Standard Recovery Summary

Date Analyzed	Client Id.	Lab Id.	Percent Recovery		
			1,2-Dichloroethane-d ₄	Toluene-d ₈	p-Bromofluorobenzene
08/23/95	MW-1	01	77	102	94
08/23/95	MW-2	02	80	101	95
08/23/95	MW-3	03	83	98	95
QC Limits:			76-114	88-110	86-115

DATE ANALYZED: 08/23/95
SAMPLE SPIKED: 9508149-04
INSTRUMENT: 13

Matrix Spike Recovery Summary

Analyte	Spike Added (ug/L)	Average Percent Recovery	RPD	QC Limits	
				Percent Recovery	RPD
1,1-Dichloroethene	50	84	10	59-155	25
Trichloroethene	50	96	6	71-157	25
Benzene	50	94	2	37-151	25
Toluene	50	95	<1	47-150	25
Chlorobenzene	50	103	5	37-160	25

Daily method blanks for all associated analytical runs showed no contamination at or above the reporting limit.

*** END OF REPORT ***

1. Client: F. Foster Group Valve
 Address: 6529 Hollis St.
Emeryville, CA 94608
 Contact: Bill Tallent
 Alt. Contact: _____

3440 Vincent Road, Pleasant Hill, CA 94523
 Phone (510) 930-9990
 FAX (510) 930-0256

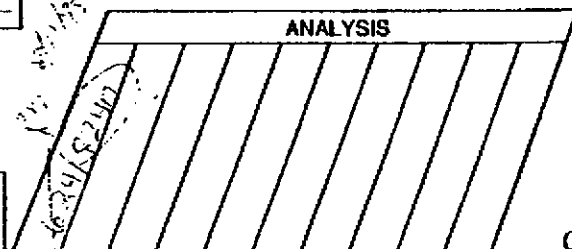
REQUEST FOR ANALYSIS / CHAIN OF CUSTODY

Lab Job Number: 9508245
 Lab Destination: AEN, Pleasant Hill
 Date Samples Shipped: 8-19-95
 Lab Contact: Robin
 Date Results Required: 8-22-95 (see/call Bill Tallent)
 Date Report Required: Call Bill Tallent (510) 655-7700 x214
 Client Phone No.: 510-655-7700
 Client FAX No.: 510-308-4048

2. Bill Tallent
Group Valve + Regulator Co.
6529 Hollis St.
Emeryville, CA 94608

3. same

Send Report To: 1 or 2 (Circle one)
 Client P.O. No.: _____ Client Project I.D. No.: _____
 Sample Team Member (s) Jacki Lee



Lab Number	Client Sample Identification	Air Volume	Date/Time Collected	Sample Type	Pres.	No. of Cont.	Type of Cont.	ANALYSIS					Comments / Hazards		
Q1AB	MW-1		8/18/95 1130	w/7	HCl	2	VOC	X							
Q2AB	MW-2		8/18/95 1235	w/7	HCl	2	VOC	X							
Q3AB	MW-3		8/18/95 1320	w/7	HCl	2	VOC	X							
			8/19/95												

Relinquished by: (Signature) <u>[Signature]</u>	DATE <u>8/18/95</u>	TIME <u>1345</u>	Received by: (Signature) <u>Michael E. Smith</u>	DATE <u>8/18/95</u>	TIME <u>1520</u>
Relinquished by: (Signature) <u>Michael E. Smith</u>	DATE <u>8/18/95</u>	TIME <u>1625</u>	Received by: (Signature) <u>Tui L. Smith</u>	DATE <u>8-18-95</u>	TIME <u>1625</u>
Relinquished by: (Signature) _____	DATE _____	TIME _____	Received by: (Signature) _____	DATE _____	TIME _____

Method of Shipment: AEN COURIER

*Sample type (Specify): 1) 37mm 0.8 µm MCEF 2) 25mm 0.8 µm MCEF 3) 25mm 0.4 µm polycarb. filter
 4) PVC filter, diam. _____ pore size _____ 5) Charcoal tube 6) Silica gel tube 7) Water 8) Soil 9) Bulk Sample
 10) Other _____ 11) Other _____

8:30 NO 004 P.08
 Sep 22 95
 TEL: 713-568-5731
 GROVE VALVE HOUSTON

PAGE 1

GROVE VALVE & REGULATOR CO.
6529 HOLLIS STREET
EMERYVILLE, CA 94608

ATTN: BILL TALLENT
CLIENT PROJ. ID: -

P.O. NUMBER: PB55786

REPORT DATE: 09/26/95

DATE(S) SAMPLED: 09/14/95

DATE RECEIVED: 09/14/95

AEN WORK ORDER: 9509203

PROJECT SUMMARY:

On September 14, 1995, this laboratory received 5 water sample(s).

Client requested sample(s) be analyzed for organic parameters. Results of analysis are summarized on the following page(s). Please see quality control report for a summary of QC data pertaining to this project.

Samples will be stored for 30 days after completion of analysis, then disposed of in accordance with State and Federal regulations. Samples may be archived by prior arrangement.

If you have any questions, please contact Client Services at (510) 930-9090.

Larry Klein
Laboratory Director

GROVE VALVE & REGULATOR CO.

SAMPLE ID: MW-1
 AEN LAB NO: 9509203-01
 AEN WORK ORDER: 9509203
 CLIENT PROJ. ID: -

DATE SAMPLED: 09/14/95
 DATE RECEIVED: 09/14/95
 REPORT DATE: 09/26/95

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
Volatile Organic Compounds	EPA 8240				
Acetone	67-64-1	ND	100	ug/L	09/21/95
Benzene	71-43-2	ND	5	ug/L	09/21/95
Bromodichloromethane	75-27-4	ND	5	ug/L	09/21/95
Bromoform	75-25-2	ND	5	ug/L	09/21/95
Bromomethane	74-83-9	ND	10	ug/L	09/21/95
2-Butanone	78-93-3	ND	100	ug/L	09/21/95
Carbon Disulfide	75-15-0	ND	10	ug/L	09/21/95
Carbon Tetrachloride	56-23-5	ND	5	ug/L	09/21/95
Chlorobenzene	108-90-7	ND	5	ug/L	09/21/95
Chloroethane	75-00-3	ND	10	ug/L	09/21/95
2-Chloroethyl Vinyl Ether	110-75-8	ND	10	ug/L	09/21/95
Chloroform	67-66-3	ND	5	ug/L	09/21/95
Chloromethane	74-87-3	ND	10	ug/L	09/21/95
Dibromochloromethane	124-48-1	ND	5	ug/L	09/21/95
1,1-Dichloroethane	75-34-3	ND	5	ug/L	09/21/95
1,2-Dichloroethane	107-06-2	ND	5	ug/L	09/21/95
1,1-Dichloroethene	75-35-4	ND	5	ug/L	09/21/95
cis-1,2-Dichloroethene	156-59-2	18 *	5	ug/L	09/21/95
trans-1,2-Dichloroethene	156-60-5	7 *	5	ug/L	09/21/95
1,2-Dichloropropane	78-87-5	ND	5	ug/L	09/21/95
cis-1,3-Dichloropropene	10061-01-5	ND	5	ug/L	09/21/95
trans-1,3-Dichloropropene	10061-02-6	ND	5	ug/L	09/21/95
Ethylbenzene	100-41-4	ND	5	ug/L	09/21/95
2-Hexanone	591-78-6	ND	50	ug/L	09/21/95
Methylene Chloride	75-09-2	ND	20	ug/L	09/21/95
4-Methyl-2-pentanone	108-10-1	ND	50	ug/L	09/21/95
Styrene	100-42-5	ND	5	ug/L	09/21/95
1,1,2,2-Tetrachloroethane	79-34-5	ND	5	ug/L	09/21/95
Tetrachloroethene	127-18-4	ND	5	ug/L	09/21/95
Toluene	108-88-3	ND	5	ug/L	09/21/95
1,1,1-Trichloroethane	71-55-6	ND	5	ug/L	09/21/95
1,1,2-Trichloroethane	79-00-5	ND	5	ug/L	09/21/95
Trichloroethene	79-01-6	54 *	5	ug/L	09/21/95
Vinyl Acetate	108-05-4	ND	50	ug/L	09/21/95
Vinyl Chloride	75-01-4	ND	10	ug/L	09/21/95
Xylenes, Total	1330-20-7	ND	10	ug/L	09/21/95

ND = Not detected at or above the reporting limit
 * = Value at or above reporting limit

GROVE VALVE & REGULATOR CO.

SAMPLE ID: MW-2
 AEN LAB NO: 9509203-02
 AEN WORK ORDER: 9509203
 CLIENT PROJ. ID: -

DATE SAMPLED: 09/14/95
 DATE RECEIVED: 09/14/95
 REPORT DATE: 09/26/95

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
Volatile Organic Compounds	EPA 8240				
Acetone	67-64-1	ND	100	ug/L	09/21/95
Benzene	71-43-2	ND	5	ug/L	09/21/95
Bromodichloromethane	75-27-4	ND	5	ug/L	09/21/95
Bromoform	75-25-2	ND	5	ug/L	09/21/95
Bromomethane	74-83-9	ND	10	ug/L	09/21/95
2-Butanone	78-93-3	ND	100	ug/L	09/21/95
Carbon Disulfide	75-15-0	ND	10	ug/L	09/21/95
Carbon Tetrachloride	56-23-5	ND	5	ug/L	09/21/95
Chlorobenzene	108-90-7	ND	5	ug/L	09/21/95
Chloroethane	75-00-3	ND	10	ug/L	09/21/95
2-Chloroethyl Vinyl Ether	110-75-8	ND	10	ug/L	09/21/95
Chloroform	67-66-3	ND	5	ug/L	09/21/95
Chloromethane	74-87-3	ND	10	ug/L	09/21/95
Dibromochloromethane	124-48-1	ND	5	ug/L	09/21/95
1,1-Dichloroethane	75-34-3	ND	5	ug/L	09/21/95
1,2-Dichloroethane	107-06-2	ND	5	ug/L	09/21/95
1,1-Dichloroethene	75-35-4	ND	5	ug/L	09/21/95
cis-1,2-Dichloroethene	156-59-2	ND	5	ug/L	09/21/95
trans-1,2-Dichloroethene	156-60-5	ND	5	ug/L	09/21/95
1,2-Dichloropropane	78-87-5	ND	5	ug/L	09/21/95
cis-1,3-Dichloropropene	10061-01-5	ND	5	ug/L	09/21/95
trans-1,3-Dichloropropene	10061-02-6	ND	5	ug/L	09/21/95
Ethylbenzene	100-41-4	ND	5	ug/L	09/21/95
2-Hexanone	591-78-6	ND	50	ug/L	09/21/95
Methylene Chloride	75-09-2	ND	20	ug/L	09/21/95
4-Methyl-2-pentanone	108-10-1	ND	50	ug/L	09/21/95
Styrene	100-42-5	ND	5	ug/L	09/21/95
1,1,2,2-Tetrachloroethane	79-34-5	ND	5	ug/L	09/21/95
Tetrachloroethene	127-18-4	ND	5	ug/L	09/21/95
Toluene	108-88-3	ND	5	ug/L	09/21/95
1,1,1-Trichloroethane	71-55-6	ND	5	ug/L	09/21/95
1,1,2-Trichloroethane	79-00-5	ND	5	ug/L	09/21/95
Trichloroethene	79-01-6	ND	5	ug/L	09/21/95
Vinyl Acetate	108-05-4	ND	50	ug/L	09/21/95
Vinyl Chloride	75-01-4	ND	10	ug/L	09/21/95
Xylenes, Total	1330-20-7	ND	10	ug/L	09/21/95

ND = Not detected at or above the reporting limit
 * = Value at or above reporting limit

GROVE VALVE & REGULATOR CO.

SAMPLE ID: MW-3
 AEN LAB NO: 9509203-03
 AEN WORK ORDER: 9509203
 CLIENT PROJ. ID: -

DATE SAMPLED: 09/14/95
 DATE RECEIVED: 09/14/95
 REPORT DATE: 09/26/95

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
Volatile Organic Compounds	EPA 8240				
Acetone	67-64-1	ND	1000	ug/L	09/21/95
Benzene	71-43-2	ND	50	ug/L	09/21/95
Bromodichloromethane	75-27-4	ND	50	ug/L	09/21/95
Bromoform	75-25-2	ND	50	ug/L	09/21/95
Bromomethane	74-83-9	ND	100	ug/L	09/21/95
2-Butanone	78-93-3	ND	1000	ug/L	09/21/95
Carbon Disulfide	75-15-0	ND	100	ug/L	09/21/95
Carbon Tetrachloride	56-23-5	ND	50	ug/L	09/21/95
Chlorobenzene	108-90-7	ND	50	ug/L	09/21/95
Chloroethane	75-00-3	ND	100	ug/L	09/21/95
2-Chloroethyl Vinyl Ether	110-75-8	ND	100	ug/L	09/21/95
Chloroform	67-66-3	ND	50	ug/L	09/21/95
Chloromethane	74-87-3	ND	100	ug/L	09/21/95
Dibromochloromethane	124-48-1	ND	50	ug/L	09/21/95
1,1-Dichloroethane	75-34-3	ND	50	ug/L	09/21/95
1,2-Dichloroethane	107-06-2	ND	50	ug/L	09/21/95
1,1-Dichloroethene	75-35-4	ND	50	ug/L	09/21/95
cis-1,2-Dichloroethene	156-59-2	ND	50	ug/L	09/21/95
trans-1,2-Dichloroethene	156-60-5	ND	50	ug/L	09/21/95
1,2-Dichloropropane	78-87-5	ND	50	ug/L	09/21/95
cis-1,3-Dichloropropene	10061-01-5	ND	50	ug/L	09/21/95
trans-1,3-Dichloropropene	10061-02-6	ND	50	ug/L	09/21/95
Ethylbenzene	100-41-4	ND	50	ug/L	09/21/95
2-Hexanone	591-78-6	ND	500	ug/L	09/21/95
Methylene Chloride	75-09-2	ND	200	ug/L	09/21/95
4-Methyl-2-pentanone	108-10-1	ND	500	ug/L	09/21/95
Styrene	100-42-5	ND	50	ug/L	09/21/95
1,1,2,2-Tetrachloroethane	79-34-5	ND	50	ug/L	09/21/95
Tetrachloroethene	127-18-4	ND	50	ug/L	09/21/95
Toluene	108-88-3	ND	50	ug/L	09/21/95
1,1,1-Trichloroethane	71-55-6	ND	50	ug/L	09/21/95
1,1,2-Trichloroethane	79-00-5	ND	50	ug/L	09/21/95
Trichloroethene	79-01-6	1,200 *	50	ug/L	09/21/95
Vinyl Acetate	108-05-4	ND	500	ug/L	09/21/95
Vinyl Chloride	75-01-4	ND	100	ug/L	09/21/95
Xylenes, Total	1330-20-7	ND	100	ug/L	09/21/95

GROVE VALVE & REGULATOR CO.

SAMPLE ID: MW-3
 AEN LAB NO: 9509203-03
 AEN WORK ORDER: 9509203
 CLIENT PROJ. ID: -

DATE SAMPLED: 09/14/95
 DATE RECEIVED: 09/14/95
 REPORT DATE: 09/26/95

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
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Reporting limits elevated due to high levels of target compounds. Sample run at dilution.

ND = Not detected at or above the reporting limit
 * = Value at or above reporting limit

GROVE VALVE & REGULATOR CO.

SAMPLE ID: MW-3-DUP
 AEN LAB NO: 9509203-04
 AEN WORK ORDER: 9509203
 CLIENT PROJ. ID: -

DATE SAMPLED: 09/14/95
 DATE RECEIVED: 09/14/95
 REPORT DATE: 09/26/95

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
Volatile Organic Compounds	EPA 8240				
Acetone	67-64-1	ND	1000	ug/L	09/21/95
Benzene	71-43-2	ND	50	ug/L	09/21/95
Bromodichloromethane	75-27-4	ND	50	ug/L	09/21/95
Bromoform	75-25-2	ND	50	ug/L	09/21/95
Bromomethane	74-83-9	ND	100	ug/L	09/21/95
2-Butanone	78-93-3	ND	1000	ug/L	09/21/95
Carbon Disulfide	75-15-0	ND	100	ug/L	09/21/95
Carbon Tetrachloride	56-23-5	ND	50	ug/L	09/21/95
Chlorobenzene	108-90-7	ND	50	ug/L	09/21/95
Chloroethane	75-00-3	ND	100	ug/L	09/21/95
2-Chloroethyl Vinyl Ether	110-75-8	ND	100	ug/L	09/21/95
Chloroform	67-66-3	ND	50	ug/L	09/21/95
Chloromethane	74-87-3	ND	100	ug/L	09/21/95
Dibromochloromethane	124-48-1	ND	50	ug/L	09/21/95
1,1-Dichloroethane	75-34-3	ND	50	ug/L	09/21/95
1,2-Dichloroethane	107-06-2	ND	50	ug/L	09/21/95
1,1-Dichloroethene	75-35-4	ND	50	ug/L	09/21/95
cis-1,2-Dichloroethene	156-59-2	ND	50	ug/L	09/21/95
trans-1,2-Dichloroethene	156-60-5	ND	50	ug/L	09/21/95
1,2-Dichloropropane	78-87-5	ND	50	ug/L	09/21/95
cis-1,3-Dichloropropene	10061-01-5	ND	50	ug/L	09/21/95
trans-1,3-Dichloropropene	10061-02-6	ND	50	ug/L	09/21/95
Ethylbenzene	100-41-4	ND	50	ug/L	09/21/95
2-Hexanone	591-78-6	ND	500	ug/L	09/21/95
Methylene Chloride	75-09-2	ND	200	ug/L	09/21/95
4-Methyl-2-pentanone	108-10-1	ND	500	ug/L	09/21/95
Styrene	100-42-5	ND	50	ug/L	09/21/95
1,1,2,2-Tetrachloroethane	79-34-5	ND	50	ug/L	09/21/95
Tetrachloroethene	127-18-4	ND	50	ug/L	09/21/95
Toluene	108-88-3	ND	50	ug/L	09/21/95
1,1,1-Trichloroethane	71-55-6	ND	50	ug/L	09/21/95
1,1,2-Trichloroethane	79-00-5	ND	50	ug/L	09/21/95
Trichloroethene	79-01-6	1.200 *	50	ug/L	09/21/95
Vinyl Acetate	108-05-4	ND	500	ug/L	09/21/95
Vinyl Chloride	75-01-4	ND	100	ug/L	09/21/95
Xylenes, Total	1330-20-7	ND	100	ug/L	09/21/95

GROVE VALVE & REGULATOR CO.

SAMPLE ID: MW-3-DUP
 AEN LAB NO: 9509203-04
 AEN WORK ORDER: 9509203
 CLIENT PROJ. ID: -

DATE SAMPLED: 09/14/95
 DATE RECEIVED: 09/14/95
 REPORT DATE: 09/26/95

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
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Reporting limits elevated due to high levels of target compounds. Sample run at dilution.

ND = Not detected at or above the reporting limit
 * = Value at or above reporting limit

GROVE VALVE & REGULATOR CO.

SAMPLE ID: TRIP BLANK
 AEN LAB NO: 9509203-05
 AEN WORK ORDER: 9509203
 CLIENT PROJ. ID: -

DATE SAMPLED: 09/14/95
 DATE RECEIVED: 09/14/95
 REPORT DATE: 09/26/95

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
Volatile Organic Compounds	EPA 8240				
Acetone	67-64-1	ND	100	ug/L	09/21/95
Benzene	71-43-2	ND	5	ug/L	09/21/95
Bromodichloromethane	75-27-4	ND	5	ug/L	09/21/95
Bromoform	75-25-2	ND	5	ug/L	09/21/95
Bromomethane	74-83-9	ND	10	ug/L	09/21/95
2-Butanone	78-93-3	ND	100	ug/L	09/21/95
Carbon Disulfide	75-15-0	ND	10	ug/L	09/21/95
Carbon tetrachloride	56-23-5	ND	5	ug/L	09/21/95
Chlorobenzene	108-90-7	ND	5	ug/L	09/21/95
Chloroethane	75-00-3	ND	10	ug/L	09/21/95
2-Chloroethyl Vinyl Ether	110-75-8	ND	10	ug/L	09/21/95
Chloroform	67-66-3	ND	5	ug/L	09/21/95
Chloromethane	74-87-3	ND	10	ug/L	09/21/95
Dibromochloromethane	124-48-1	ND	5	ug/L	09/21/95
1,1-Dichloroethane	75-34-3	ND	5	ug/L	09/21/95
1,2-Dichloroethane	107-06-2	ND	5	ug/L	09/21/95
1,1-Dichloroethene	75-35-4	ND	5	ug/L	09/21/95
cis-1,2-Dichloroethene	156-59-2	ND	5	ug/L	09/21/95
trans-1,2-Dichloroethene	156-60-5	ND	5	ug/L	09/21/95
1,2-Dichloropropane	78-87-5	ND	5	ug/L	09/21/95
cis-1,3-Dichloropropene	10061-01-5	ND	5	ug/L	09/21/95
trans-1,3-Dichloropropene	10061-02-6	ND	5	ug/L	09/21/95
Ethylbenzene	100-41-4	ND	5	ug/L	09/21/95
2-Hexanone	591-78-6	ND	50	ug/L	09/21/95
Methylene Chloride	75-09-2	ND	20	ug/L	09/21/95
4-Methyl-2-pentanone	108-10-1	ND	50	ug/L	09/21/95
Styrene	100-42-5	ND	5	ug/L	09/21/95
1,1,2,2-Tetrachloroethane	79-34-5	ND	5	ug/L	09/21/95
Tetrachloroethene	127-18-4	ND	5	ug/L	09/21/95
Toluene	108-88-3	ND	5	ug/L	09/21/95
1,1,1-Trichloroethane	71-55-6	ND	5	ug/L	09/21/95
1,1,2-Trichloroethane	79-00-5	ND	5	ug/L	09/21/95
Trichloroethene	79-01-6	ND	5	ug/L	09/21/95
Vinyl Acetate	108-05-4	ND	50	ug/L	09/21/95
Vinyl Chloride	75-01-4	ND	10	ug/L	09/21/95
Xylenes, Total	1330-20-7	ND	10	ug/L	09/21/95

* ND = Not detected at or above the reporting limit

* = Value at or above reporting limit

AEN (CALIFORNIA)
QUALITY CONTROL REPORT

AEN JOB NUMBER: 9509203

CLIENT PROJECT ID: -

Quality Control and Project Summary

All laboratory quality control parameters were found to be within established limits.

Definitions

Laboratory Control Sample (LCS)/Method Spike(s): Control samples of known composition. LCS and Method Spike data are used to validate batch analytical results.

Matrix Spike(s): Aliquot of a sample (aqueous or solid) with added quantities of specific compounds and subjected to the entire analytical procedure. Matrix spike and matrix spike duplicate QC data are advisory.

Method Blank: An analytical control consisting of all reagents, internal standards, and surrogate standards carried through the entire analytical process. Used to monitor laboratory background and reagent contamination.

Not Detected (ND): Not detected at or above the reporting limit.

Relative Percent Difference (RPD): An indication of method precision based on duplicate analysis.

Reporting Limit (RL): The lowest concentration routinely determined during laboratory operations. The RL is generally 1 to 10 times the Method Detection Limit (MDL). Reporting limits are matrix, method, and analyte dependent and take into account any dilutions performed as part of the analysis.

Surrogates: Organic compounds which are similar to analytes of interest in chemical behavior, but are not found in environmental samples. Surrogates are added to all blanks, calibration and check standards, samples, and spiked samples. Surrogate recovery is monitored as an indication of acceptable sample preparation and instrumental performance.

D: Surrogates diluted out.

#: Indicates result outside of established laboratory QC limits.

QUALITY CONTROL DATA

METHOD: EPA 8240

AEN JOB NO: 9509203
 INSTRUMENT: 13
 MATRIX: WATER

Surrogate Standard Recovery Summary

Date Analyzed	Client Id.	Lab Id.	Percent Recovery		
			1,2-Dichloroethane-d ₄	Toluene-d ₈	p-Bromofluorobenzene
09/21/95	MW-1	01	112	92	90
09/21/95	MW-2	02	113	95	94
09/21/95	MW-3	03	108	94	92
09/21/95	MW-3 DUP	04	112	92	91
09/21/95	TRIP BLANK	05	114	93	93
QC Limits:			76-114	88-110	86-115

DATE ANALYZED: 09/19/95
 SAMPLE SPIKED: 9509150-02
 INSTRUMENT: 13

Matrix Spike Recovery Summary

Analyte	Spike Added (ug/L)	Average Percent Recovery	RPD	QC Limits	
				Percent Recovery	RPD
1,1-Dichloroethene	50	104	<1	59-155	25
Trichloroethylene	50	101	8	71-157	25
Benzene	50	95	6	37-151	25
Toluene	50	97	6	47-150	25
Chlorobenzene	50	93	5	37-160	25

Daily method blanks for all associated analytical runs showed no contamination at or above the reporting limit.

*** END OF REPORT ***

P. 53/53

FAX NO. 5109300256

AEN CALIFORNIA

SEP-26-95 TUE 14:56

American Environmental Network

3410 Vincent Road, Pleasant Hill, CA 94523
Phone (510) 930 9890
FAX (510) 930 0256

REQUEST FOR ANALYSIS / CHAIN OF CUSTODY

9509203

1. Client: Live Valve - Regular
 Address: 6529 Lollis St
Emeryville, CA 94608
 Contact: Bill Tullent
 Alt. Contact: _____

Lab Job Number: _____
 Lab Destination: _____
 Date Samples Shipped: 9-14-95
 Lab Contact: _____
 Date Results Required: Normal Turnaround
 Date Report Required: _____
 Client Phone No.: _____
 Client FAX No.: _____

Address Report To:
 2. same as above

Send Invoice To:
 3. same as above

Send Report To: 1 or 2 (Circle one)

Client P.O. No.: _____ Client Project I.D. No.: _____

Sample Team Member (s): _____

Lab Number	Client Sample Identification	Air Volume	Date/Time Collected	Sample Type*	Pres.	No. of Cont.	Type of Cont.	ANALYSIS										Comments / Hazards				
								1	2	3	4	5	6	7	8	9	10		11	12		
01A-C	MW-1		9/14/95	WAB	HE1	3	VOC	X														
02A-C	MW-2		↓	↓	↓	3	"	X														
03A-C	MW-3		↓	↓	↓	3	"	X														
04A-C	MW-3 DUP		↓	↓	↓	3	"	X														
05A-B	TRIP BLANK																					

EPA 8240

Relinquished by: [Signature] DATE 9/14/95 TIME 1555
 Relinquished by: _____ DATE _____ TIME _____
 Relinquished by: _____ DATE _____ TIME _____

Received by: [Signature] DATE 9/14/95 TIME 1555
 Received by: _____ DATE _____ TIME _____
 Received by: _____ DATE _____ TIME _____

Method of Shipment: Hand Delivered

Lab Comments: _____

*Sample type (Specify): 1) 37mm 0.8 µm MCEF 2) 25mm 0.8 µm MCEF 3) 25mm 0.4 µm polycarb. filter
 4) PVC filter, diam. _____ pore size 5) Charcoal tube 6) Silica gel tube 7) Water 8) Soil 9) Bulk Sample
 10) Other _____ 11) Other _____

GROVE VALVE & REGULATOR CO.

SAMPLE ID: MW-1
 AEM LAB NO: 9508245-01
 AEM WORK ORDER: 9508245
 CLIENT PROJ. ID: -

DATE SAMPLED: 08/18/95
 DATE RECEIVED: 08/18/95
 REPORT DATE: 08/23/95

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
VOCs in Water by 8240	EPA 8240				
Acetone	67-64-1	ND	100	ug/L	08/23/95
Benzene	71-43-2	ND	5	ug/L	08/23/95
Bromodichloromethane	75-27-4	ND	5	ug/L	08/23/95
Bromoform	75-25-2	ND	5	ug/L	08/23/95
Bromomethane	74-83-9	ND	10	ug/L	08/23/95
2-Butanone	78-93-3	ND	100	ug/L	08/23/95
Carbon Disulfide	75-15-0	ND	10	ug/L	08/23/95
Carbon Tetrachloride	56-23-5	ND	5	ug/L	08/23/95
Chlorobenzene	108-90-7	ND	5	ug/L	08/23/95
Chloroethane	75-00-3	ND	10	ug/L	08/23/95
2-Chloroethyl Vinyl Ether	110-75-8	ND	10	ug/L	08/23/95
Chloroform	67-66-3	ND	5	ug/L	08/23/95
Chloromethane	74-87-3	ND	10	ug/L	08/23/95
Dibromochloromethane	124-48-1	ND	5	ug/L	08/23/95
1,1-Dichloroethane	75-34-3	ND	5	ug/L	08/23/95
1,2-Dichloroethane	107-06-2	ND	5	ug/L	08/23/95
1,1-Dichloroethene	75-35-4	ND	5	ug/L	08/23/95
cis-1,2-Dichloroethene	156-59-2	12 *	5	ug/L	08/23/95
trans-1,2-Dichloroethene	156-60-5	ND	5	ug/L	08/23/95
1,2-Dichloropropane	78-87-5	ND	5	ug/L	08/23/95
cis-1,3-Dichloropropene	10061-01-5	ND	5	ug/L	08/23/95
trans-1,3-Dichloropropene	10061-02-6	ND	5	ug/L	08/23/95
Ethylbenzene	100-41-4	ND	5	ug/L	08/23/95
2-Hexanone	591-78-6	ND	50	ug/L	08/23/95
Methylene Chloride	75-09-2	ND	20	ug/L	08/23/95
4-Methyl-2-pentanone	108-10-1	ND	50	ug/L	08/23/95
Styrene	100-42-5	ND	5	ug/L	08/23/95
1,1,1,2-Tetrachloroethane	79-34-5	ND	5	ug/L	08/23/95
Tetrachloroethene	127-18-4	ND	5	ug/L	08/23/95
Toluene	108-88-3	ND	5	ug/L	08/23/95
1,1,1-Trichloroethane	71-55-6	ND	5	ug/L	08/23/95
1,1,2-Trichloroethane	79-00-5	ND	5	ug/L	08/23/95
Trichloroethene	79-01-6	46 *	5	ug/L	08/23/95
Vinyl Acetate	108-05-4	ND	50	ug/L	08/23/95
Vinyl Chloride	75-01-4	ND	10	ug/L	08/23/95
Xylenes, Total	1330-20-7	ND	10	ug/L	08/23/95

ND = Not detected at or above the reporting limit

* = Value at or above reporting limit

GROVE VALVE & REGULATOR CO.

SAMPLE ID: MW-2
 AEN LAB NO: 9508245-02
 AEN WORK ORDER: 9508245
 CLIENT PROJ. ID: -

DATE SAMPLED: 08/18/95
 DATE RECEIVED: 08/18/95
 REPORT DATE: 08/23/95

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
VOCs in Water by 8240	EPA 8240				
Acetone	67-64-1	ND	100	ug/L	08/23/95
Benzene	71-43-2	ND	5	ug/L	08/23/95
Bromodichloromethane	75-27-4	ND	5	ug/L	08/23/95
Bromoform	75-25-2	ND	5	ug/L	08/23/95
Bromomethane	74-83-9	ND	10	ug/L	08/23/95
2-Butanone	78-93-3	ND	100	ug/L	08/23/95
Carbon Disulfide	75-15-0	ND	10	ug/L	08/23/95
Carbon Tetrachloride	56-23-5	ND	5	ug/L	08/23/95
Chlorobenzene	108-90-7	ND	5	ug/L	08/23/95
Chloroethane	75-00-3	ND	10	ug/L	08/23/95
2-Chloroethyl Vinyl Ether	110-75-8	ND	10	ug/L	08/23/95
Chloroform	67-66-3	ND	5	ug/L	08/23/95
Chloromethane	74-87-3	ND	10	ug/L	08/23/95
Dibromochloromethane	124-48-1	ND	5	ug/L	08/23/95
1,1-Dichloroethane	75-24-3	ND	5	ug/L	08/23/95
1,2-Dichloroethane	107-06-2	ND	5	ug/L	08/23/95
1,1-Dichloroethane	75-35-4	ND	5	ug/L	08/23/95
cis-1,2-Dichloroethane	156-59-2	ND	5	ug/L	08/23/95
trans-1,2-Dichloroethane	156-60-3	ND	5	ug/L	08/23/95
1,2-Dichloropropane	78-87-5	ND	5	ug/L	08/23/95
cis-1,3-Dichloropropene	10061-01-5	ND	5	ug/L	08/23/95
trans-1,3-Dichloropropene	10061-03-6	ND	5	ug/L	08/23/95
Ethylbenzene	100-41-4	ND	5	ug/L	08/23/95
2-Hexanone	591-78-6	ND	50	ug/L	08/23/95
Methyls Chloride	75-09-2	ND	20	ug/L	08/23/95
4-Methyl-2-pentanone	108-10-1	ND	50	ug/L	08/23/95
Styrene	100-42-5	ND	5	ug/L	08/23/95
1,1,2,2-Tetrachloroethane	79-34-5	ND	5	ug/L	08/23/95
Tetrachloroethene	127-18-4	ND	5	ug/L	08/23/95
Toluene	108-88-3	ND	5	ug/L	08/23/95
1,1,1-Trichloroethane	71-55-6	ND	5	ug/L	08/23/95
1,1,2-Trichloroethane	79-00-5	ND	5	ug/L	08/23/95
Trichloroethene	79-01-6	ND	5	ug/L	08/23/95
Vinyl Acetate	108-05-4	ND	50	ug/L	08/23/95
Vinyl Chloride	75-01-4	ND	10	ug/L	08/23/95
Xylenes, Total	1330-20-7	ND	10	ug/L	08/23/95

ND = Not detected at or above the reporting limit
 * = Value at or above reporting limit

GROVE VALVE & REGULATOR CO.

SAMPLE ID: MW-3
 AEN LAB NO: 9508245-03
 AEN WORK ORDER: 9508245
 CLIENT PROJ. ID: -

DATE SAMPLED: 08/18/95
 DATE RECEIVED: 08/18/95
 REPORT DATE: 08/23/95

ANALYTE	METHOD/ CASE	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
VOCs in Water by 8240	EPA 8240				
Acetone	67-64-1	ND	100	ug/L	08/23/95
Benzene	71-43-2	ND	5	ug/L	08/23/95
Bromodichloromethane	75-27-4	ND	5	ug/L	08/23/95
Bromoform	75-25-2	ND	5	ug/L	08/23/95
Bromomethane	74-83-9	ND	10	ug/L	08/23/95
2-Butanone	78-93-3	ND	100	ug/L	08/23/95
Carbon Disulfide	75-15-0	ND	10	ug/L	08/23/95
Carbon Tetrachloride	56-23-5	ND	5	ug/L	08/23/95
Chlorobenzene	108-90-7	ND	5	ug/L	08/23/95
Chloroethane	75-00-3	ND	10	ug/L	08/23/95
2-Chloroethyl Vinyl Ether	110-75-8	ND	10	ug/L	08/23/95
Chloroform	67-66-3	ND	5	ug/L	08/23/95
Chloromethane	74-87-3	ND	10	ug/L	08/23/95
Dibromochloromethane	124-48-1	ND	5	ug/L	08/23/95
1,1-Dichloroethane	75-34-3	ND	5	ug/L	08/23/95
1,2-Dichloroethane	107-06-2	ND	5	ug/L	08/23/95
1,1-Dichloroethene	75-35-4	ND	5	ug/L	08/23/95
cis-1,2-Dichloroethene	156-59-2	19	5	ug/L	08/23/95
trans-1,2-Dichloroethene	156-60-0	ND	5	ug/L	08/23/95
1,1-Dichloroethane	75-34-3	ND	5	ug/L	08/23/95
cis-1,3-Dichloropropene	10061-01-5	ND	5	ug/L	08/23/95
trans-1,3-Dichloropropene	10061-02-6	ND	5	ug/L	08/23/95
Ethylbenzene	100-41-4	ND	5	ug/L	08/23/95
2 Hexanone	591-78-6	ND	50	ug/L	08/23/95
Methylene Chloride	75-09-1	ND	20	ug/L	08/23/95
1-methyl-2-pentanone	158-15-1	ND	50	ug/L	08/23/95
Styrene	100-42-5	ND	5	ug/L	08/23/95
1,1,1,2-Tetrachloroethane	79-34-6	ND	5	ug/L	08/23/95
Tetrachloroethene	137-18-4	ND	5	ug/L	08/23/95
Toluene	108-88-3	ND	5	ug/L	08/23/95
1,1,1-Trichloroethane	71-55-6	ND	5	ug/L	08/23/95
1,1,2-Trichloroethane	79-00-5	ND	5	ug/L	08/23/95
Trichloroethene	79-01-6	{640} *	5	ug/L	08/23/95
Vinyl Acetate	108-05-4	ND	50	ug/L	08/23/95
Vinyl Chloride	75-01-4	ND	10	ug/L	08/23/95
Xylenes, Total	1330-20-7	ND	10	ug/L	08/23/95

ND - Not detected at or above the reporting limit
 * - Value at or above reporting limit

Client: **Haril Grovic Valve**
 Address: **6529 Hollis St.
 Emeryville, CA 94608**
 Contact: **Bill Tallent**
 All Contact:

vincent Environmental Services
 3143 Vincent Road, Pleasant Hill, CA 94523
 Phone (510) 930-9066
 FAX (510) 930-0258

REQUEST FOR ANALYSIS / CHAIN OF CUSTODY

Lab Job Number: **9508295**
 Lab Destination: **AEN, Pleasant Hill**
 Date Samples Shipped: **8-19-95**
 Lab Contact: **Robin**
 Date Results Required: **8-22-95 (see/call Bill Tallent)**
 Date Report Required: **Call Bill Tallent (510) 655-7700 x214**
 Client Phone No.: **510-655-7700**
 Client FAX No.: **510-308-4048**

Address Report To:
Bill Tallent
Grovic Valve + Regulator Co.
6529 Hollis St.
Emeryville, CA 94608

Send Invoice To:
 3. **home**

Send Report To: 1 2 (Circle one)
 Order P.O. No.: _____ Client Project ID. No.: _____
 Sample Team Member(s): **Jacki Lee**

ANALYSIS										
Lab Number	Client Sample Identification	Air Volume	Date/Time Collected	Sample Type	Pres.	No. of Cont.	Type of Cont.			Comments / Hazards
21AB	MW-1		8/18/95 / 1330	w(3)	HCl	2	VOC	X		Client notified but TAT available in Wednesday after noon. R. Ryan Send on past history - Not by Ryan Samples taken 8/18/95 per B. Tallent
2AB	MW-2		8/18/95: 1235	w(3)	HCl	2	VOC	X		
3AB	MW-3		8/18/95: 1320	w(3)	HCl	2	VOC	X		

Signature: <i>[Signature]</i>	DATE: 8/18/95	TIME: 1345	Received by: <i>[Signature]</i>	DATE: 8/18/95	TIME: 15:20
Signature: <i>[Signature]</i>	DATE: 8/19/95	TIME: 16:25	Received by: <i>[Signature]</i>	DATE: 8-18-95	TIME: 16:25
Signature: _____	DATE: _____	TIME: _____	Received by: _____	DATE: _____	TIME: _____

Method of Shipment: **AEN COURIER**
 Lab Comments: _____

*Sample type (Specify): 1) 37mm 0.8µm MCEF 2) 25mm 0.8µm MCEF 3) 25mm 0.4µm polycarb. filter
 4) PVC filter, diam _____ pore size _____ 5) Charcoal tube E) Silica gel tube 7) Water 8) Soil 9) Bulk Sample
 10) Other _____ 11) Other _____

COPIES: WHITE DO NOT YIELD PROTECTIVE PINK CLIENT

AUG-23-95 WED 17:05 AEN CALIFORNIA FAX NO. 5109300258 P. 05/05

American Environmental Network

Certified of Analysis

DOHS Certification: 1172

AIHA Accreditation: 1114

PAGE 1

GROVE VALVE & REGULATOR CO.
11100 WEST AIRPORT BLVD.
STAFFORD, TX 77477-3014

REPORT DATE: 12/01/95

DATE(S) SAMPLED: 11/16/95-11/17/95

DATE RECEIVED: 11/17/95

AEN WORK ORDER: 9511290

ATTN: BILL TALLENT
CLIENT PROJ. ID: -

P.O. NUMBER: PB60146

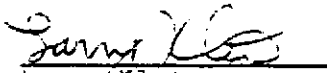
PROJECT SUMMARY:

On November 17, 1995, this laboratory received 5 water sample(s).

Client requested sample(s) be analyzed for organic parameters. Results of analysis are summarized on the following page(s). Please see quality control report for a summary of QC data pertaining to this project.

Samples will be stored for 30 days after completion of analysis, then disposed of in accordance with State and Federal regulations. Samples may be archived by prior arrangement.

If you have any questions, please contact Client Services at (510) 930-9090.


Larry Klein
Laboratory Director

GROVE VALVE & REGULATOR CO.

SAMPLE ID: TRIP BLANK
 AEN LAB NO: 9511290-01
 AEN WORK ORDER: 9511290
 CLIENT PROJ. ID: -

DATE SAMPLED: 11/16/95
 DATE RECEIVED: 11/17/95
 REPORT DATE: 12/01/95

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
Volatile Organic Compounds	EPA 8240				
Acetone	67-64-1	ND	100	ug/L	11/29/95
Benzene	71-43-2	ND	5	ug/L	11/29/95
Bromodichloromethane	75-27-4	ND	5	ug/L	11/29/95
Bromoform	75-25-2	ND	5	ug/L	11/29/95
Bromomethane	74-83-9	ND	10	ug/L	11/29/95
2-Butanone	78-93-3	ND	100	ug/L	11/29/95
Carbon Disulfide	75-15-0	ND	10	ug/L	11/29/95
Carbon Tetrachloride	56-23-5	ND	5	ug/L	11/29/95
Chlorobenzene	108-90-7	ND	5	ug/L	11/29/95
Chloroethane	75-00-3	ND	10	ug/L	11/29/95
2-Chloroethyl Vinyl Ether	110-75-8	ND	10	ug/L	11/29/95
Chloroform	67-66-3	ND	5	ug/L	11/29/95
Chloromethane	74-87-3	ND	10	ug/L	11/29/95
Dibromochloromethane	124-48-1	ND	5	ug/L	11/29/95
1,1-Dichloroethane	75-34-3	ND	5	ug/L	11/29/95
1,2-Dichloroethane	107-06-2	ND	5	ug/L	11/29/95
1,1-Dichloroethene	75-35-4	ND	5	ug/L	11/29/95
cis-1,2-Dichloroethene	156-59-2	ND	5	ug/L	11/29/95
trans-1,2-Dichloroethene	156-60-5	ND	5	ug/L	11/29/95
1,2-Dichloropropane	78-87-5	ND	5	ug/L	11/29/95
cis-1,3-Dichloropropene	10061-01-5	ND	5	ug/L	11/29/95
trans-1,3-Dichloropropene	10061-02-6	ND	5	ug/L	11/29/95
Ethylbenzene	100-41-4	ND	5	ug/L	11/29/95
2-Hexanone	591-78-6	ND	50	ug/L	11/29/95
Methylene Chloride	75-09-2	ND	20	ug/L	11/29/95
4-Methyl-2-pentanone	108-10-1	ND	50	ug/L	11/29/95
Styrene	100-42-5-	ND	5	ug/L	11/29/95
1,1,2,2-Tetrachloroethane	79-34-5	ND	5	ug/L	11/29/95
Tetrachloroethene	127-18-4	ND	5	ug/L	11/29/95
Toluene	108-88-3	ND	5	ug/L	11/29/95
1,1,1-Trichloroethane	71-55-6	ND	5	ug/L	11/29/95
1,1,2-Trichloroethane	79-00-5	ND	5	ug/L	11/29/95
Trichloroethene	79-01-6	ND	5	ug/L	11/29/95
Vinyl Acetate	108-05-4	ND	50	ug/L	11/29/95
Vinyl Chloride	75-01-4	ND	10	ug/L	11/29/95
Xylenes, Total	1330-20-7	ND	10	ug/L	11/29/95

ND = Not detected at or above the reporting limit

* = Value at or above reporting limit

GROVE VALVE & REGULATOR CO.

SAMPLE ID: MW-1
 AEN LAB NO: 9511290-02
 AEN WORK ORDER: 9511290
 CLIENT PROJ. ID: -

DATE SAMPLED: 11/17/95
 DATE RECEIVED: 11/17/95
 REPORT DATE: 12/01/95

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
Volatile Organic Compounds EPA 8240					
Acetone	67-64-1	ND	100	ug/L	11/29/95
Benzene	71-43-2	ND	5	ug/L	11/29/95
Bromodichloromethane	75-27-4	ND	5	ug/L	11/29/95
Bromoform	75-25-2	ND	5	ug/L	11/29/95
Bromomethane	74-83-9	ND	10	ug/L	11/29/95
2-Butanone	78-93-3	ND	100	ug/L	11/29/95
Carbon Disulfide	75-15-0	ND	10	ug/L	11/29/95
Carbon Tetrachloride	56-23-5	ND	5	ug/L	11/29/95
Chlorobenzene	108-90-7	ND	5	ug/L	11/29/95
Chloroethane	75-00-3	ND	10	ug/L	11/29/95
2-Chloroethyl Vinyl Ether	110-75-8	ND	10	ug/L	11/29/95
Chloroform	67-66-3	ND	5	ug/L	11/29/95
Chloromethane	74-87-3	ND	10	ug/L	11/29/95
Dibromochloromethane	124-48-1	ND	5	ug/L	11/29/95
1,1-Dichloroethane	75-34-3	ND	5	ug/L	11/29/95
1,2-Dichloroethane	107-06-2	ND	5	ug/L	11/29/95
1,1-Dichloroethene	75-35-4	ND	5	ug/L	11/29/95
cis-1,2-Dichloroethene	156-59-2	18 *	5	ug/L	11/29/95
trans-1,2-Dichloroethene	156-60-5	7 *	5	ug/L	11/29/95
1,2-Dichloropropane	78-87-5	ND	5	ug/L	11/29/95
cis-1,3-Dichloropropene	10061-01-5	ND	5	ug/L	11/29/95
trans-1,3-Dichloropropene	10061-02-6	ND	5	ug/L	11/29/95
Ethylbenzene	100-41-4	ND	5	ug/L	11/29/95
2-Hexanone	591-78-6	ND	50	ug/L	11/29/95
Methylene Chloride	75-09-2	ND	20	ug/L	11/29/95
4-Methyl-2-pentanone	108-10-1	ND	50	ug/L	11/29/95
Styrene	100-42-5	ND	5	ug/L	11/29/95
1,1,2,2-Tetrachloroethane	79-34-5	ND	5	ug/L	11/29/95
Tetrachloroethene	127-18-4	ND	5	ug/L	11/29/95
Toluene	108-88-3	ND	5	ug/L	11/29/95
1,1,1-Trichloroethane	71-55-6	ND	5	ug/L	11/29/95
1,1,2-Trichloroethane	79-00-5	ND	5	ug/L	11/29/95
Trichloroethene	79-01-6	61 *	5	ug/L	11/29/95
Vinyl Acetate	108-05-4	ND	50	ug/L	11/29/95
Vinyl Chloride	75-01-4	ND	10	ug/L	11/29/95
Xylenes, Total	1330-20-7	ND	10	ug/L	11/29/95

ND = Not detected at or above the reporting limit

* = Value at or above reporting limit

GROVE VALVE & REGULATOR CO.

SAMPLE ID: MW-3
 AEN LAB NO: 9511290-03
 AEN WORK ORDER: 9511290
 CLIENT PROJ. ID: -

DATE SAMPLED: 11/17/95
 DATE RECEIVED: 11/17/95
 REPORT DATE: 12/01/95

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
Volatile Organic Compounds	EPA 8240				
Acetone	67-64-1	ND	1000	ug/L	11/29/95
Benzene	71-43-2	ND	50	ug/L	11/29/95
Bromodichloromethane	75-27-4	ND	50	ug/L	11/29/95
Bromoform	75-25-2	ND	50	ug/L	11/29/95
Bromomethane	74-83-9	ND	100	ug/L	11/29/95
2-Butanone	78-93-3	ND	1000	ug/L	11/29/95
Carbon Disulfide	75-15-0	ND	100	ug/L	11/29/95
Carbon Tetrachloride	56-23-5	ND	50	ug/L	11/29/95
Chlorobenzene	108-90-7	ND	50	ug/L	11/29/95
Chloroethane	75-00-3	ND	100	ug/L	11/29/95
2-Chloroethyl Vinyl Ether	110-75-8	ND	100	ug/L	11/29/95
Chloroform	67-66-3	ND	50	ug/L	11/29/95
Chloromethane	74-87-3	ND	100	ug/L	11/29/95
Dibromochloromethane	124-48-1	ND	50	ug/L	11/29/95
1,1-Dichloroethane	75-34-3	ND	50	ug/L	11/29/95
1,2-Dichloroethane	107-06-2	ND	50	ug/L	11/29/95
1,1-Dichloroethene	75-35-4	ND	50	ug/L	11/29/95
cis-1,2-Dichloroethene	156-59-2	ND	50	ug/L	11/29/95
trans-1,2-Dichloroethene	156-60-5	ND	50	ug/L	11/29/95
1,2-Dichloropropane	78-87-5	ND	50	ug/L	11/29/95
cis-1,3-Dichloropropene	10061-01-5	ND	50	ug/L	11/29/95
trans-1,3-Dichloropropene	10061-02-6	ND	50	ug/L	11/29/95
Ethylbenzene	100-41-4	ND	50	ug/L	11/29/95
2-Hexanone	591-78-6	ND	500	ug/L	11/29/95
Methylene Chloride	75-09-2	ND	200	ug/L	11/29/95
4-Methyl-2-pentanone	108-10-1	ND	500	ug/L	11/29/95
Styrene	100-42-5	ND	50	ug/L	11/29/95
1,1,2,2-Tetrachloroethane	79-34-5	ND	50	ug/L	11/29/95
Tetrachloroethene	127-18-4	ND	50	ug/L	11/29/95
Toluene	108-88-3	ND	50	ug/L	11/29/95
1,1,1-Trichloroethane	71-55-6	ND	50	ug/L	11/29/95
1,1,2-Trichloroethane	79-00-5	ND	50	ug/L	11/29/95
Trichloroethene	79-01-6	1,400 *	50	ug/L	11/29/95
Vinyl Acetate	108-05-4	ND	500	ug/L	11/29/95
Vinyl Chloride	75-01-4	ND	100	ug/L	11/29/95
Xylenes, Total	1330-20-7	ND	100	ug/L	11/29/95

GROVE VALVE & REGULATOR CO.

SAMPLE ID: MW-3
AEN LAB NO: 9511290-03
AEN WORK ORDER: 9511290
CLIENT PROJ. ID: -

DATE SAMPLED: 11/17/95
DATE RECEIVED: 11/17/95
REPORT DATE: 12/01/95

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
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Reporting limits elevated due to high levels of target compounds. Sample run at dilution.

ND = Not detected at or above the reporting limit
* = Value at or above reporting limit

GROVE VALVE & REGULATOR CO.

SAMPLE ID: MW-3 DUPLICATE
 AEN LAB NO: 9511290-04
 AEN WORK ORDER: 9511290
 CLIENT PROJ. ID: -

DATE SAMPLED: 11/17/95
 DATE RECEIVED: 11/17/95
 REPORT DATE: 12/01/95

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
Volatile Organic Compounds	EPA 8240				
Acetone	67-64-1	ND	1000	ug/L	11/29/95
Benzene	71-43-2	ND	50	ug/L	11/29/95
Bromodichloromethane	75-27-4	ND	50	ug/L	11/29/95
Bromoform	75-25-2	ND	50	ug/L	11/29/95
Bromomethane	74-83-9	ND	100	ug/L	11/29/95
2-Butanone	78-93-3	ND	1000	ug/L	11/29/95
Carbon Disulfide	75-15-0	ND	100	ug/L	11/29/95
Carbon Tetrachloride	56-23-5	ND	50	ug/L	11/29/95
Chlorobenzene	108-90-7	ND	50	ug/L	11/29/95
Chloroethane	75-00-3	ND	100	ug/L	11/29/95
2-Chloroethyl Vinyl Ether	110-75-8	ND	100	ug/L	11/29/95
Chloroform	67-66-3	ND	50	ug/L	11/29/95
Chloromethane	74-87-3	ND	100	ug/L	11/29/95
Dibromochloromethane	124-48-1	ND	50	ug/L	11/29/95
1,1-Dichloroethane	75-34-3	ND	50	ug/L	11/29/95
1,2-Dichloroethane	107-06-2	ND	50	ug/L	11/29/95
1,1-Dichloroethene	75-35-4	ND	50	ug/L	11/29/95
cis-1,2-Dichloroethene	156-59-2	ND	50	ug/L	11/29/95
trans-1,2-Dichloroethene	156-60-5	ND	50	ug/L	11/29/95
1,2-Dichloropropane	78-87-5	ND	50	ug/L	11/29/95
cis-1,3-Dichloropropene	10061-01-5	ND	50	ug/L	11/29/95
trans-1,3-Dichloropropene	10061-02-6	ND	50	ug/L	11/29/95
Ethylbenzene	100-41-4	ND	50	ug/L	11/29/95
2-Hexanone	591-78-6	ND	500	ug/L	11/29/95
Methylene Chloride	75-09-2	ND	200	ug/L	11/29/95
4-Methyl-2-pentanone	108-10-1	ND	500	ug/L	11/29/95
Styrene	100-42-5	ND	50	ug/L	11/29/95
1,1,2,2-Tetrachloroethane	79-34-5	ND	50	ug/L	11/29/95
Tetrachloroethene	127-18-4	ND	50	ug/L	11/29/95
Toluene	108-88-3	ND	50	ug/L	11/29/95
1,1,1-Trichloroethane	71-55-6	ND	50	ug/L	11/29/95
1,1,2-Trichloroethane	79-00-5	ND	50	ug/L	11/29/95
Trichloroethene	79-01-6	1,200 *	50	ug/L	11/29/95
Vinyl Acetate	108-05-4	ND	500	ug/L	11/29/95
Vinyl Chloride	75-01-4	ND	100	ug/L	11/29/95
Xylenes, Total	1330-20-7	ND	100	ug/L	11/29/95

GROVE VALVE & REGULATOR CO.

SAMPLE ID: MW-3 DUPLICATE
AEN LAB NO: 9511290-04
AEN WORK ORDER: 9511290
CLIENT PROJ. ID: -

DATE SAMPLED: 11/17/95
DATE RECEIVED: 11/17/95
REPORT DATE: 12/01/95

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
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Reporting limits elevated due to high levels of target compounds. Sample run at dilution.

ND = Not detected at or above the reporting limit
* = Value at or above reporting limit

GROVE VALVE & REGULATOR CO.

SAMPLE ID: MW-2
 AEN LAB NO: 9511290-05
 AEN WORK ORDER: 9511290
 CLIENT PROJ. ID: -

DATE SAMPLED: 11/17/95
 DATE RECEIVED: 11/17/95
 REPORT DATE: 12/01/95

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
Volatile Organic Compounds EPA 8240					
Acetone	67-64-1	ND	100	ug/L	11/29/95
Benzene	71-43-2	ND	5	ug/L	11/29/95
Bromodichloromethane	75-27-4	ND	5	ug/L	11/29/95
Bromoform	75-25-2	ND	5	ug/L	11/29/95
Bromomethane	74-83-9	ND	10	ug/L	11/29/95
2-Butanone	78-93-3	ND	100	ug/L	11/29/95
Carbon Disulfide	75-15-0	30 *	10	ug/L	11/29/95
Carbon Tetrachloride	56-23-5	ND	5	ug/L	11/29/95
Chlorobenzene	108-90-7	ND	5	ug/L	11/29/95
Chloroethane	75-00-3	ND	10	ug/L	11/29/95
2-Chloroethyl Vinyl Ether	110-75-8	ND	10	ug/L	11/29/95
Chloroform	67-66-3	ND	5	ug/L	11/29/95
Chloromethane	74-87-3	ND	10	ug/L	11/29/95
Dibromochloromethane	124-48-1	ND	5	ug/L	11/29/95
1,1-Dichloroethane	75-34-3	ND	5	ug/L	11/29/95
1,2-Dichloroethane	107-06-2	ND	5	ug/L	11/29/95
1,1-Dichloroethene	75-35-4	ND	5	ug/L	11/29/95
cis-1,2-Dichloroethene	156-59-2	ND	5	ug/L	11/29/95
trans-1,2-Dichloroethene	156-60-5	ND	5	ug/L	11/29/95
1,2-Dichloropropane	78-87-5	ND	5	ug/L	11/29/95
cis-1,3-Dichloropropene	10061-01-5	ND	5	ug/L	11/29/95
trans-1,3-Dichloropropene	10061-02-6	ND	5	ug/L	11/29/95
Ethylbenzene	100-41-4	ND	5	ug/L	11/29/95
2-Hexanone	591-78-6	ND	50	ug/L	11/29/95
Methylene Chloride	75-09-2	ND	20	ug/L	11/29/95
4-Methyl-2-pentanone	108-10-1	ND	50	ug/L	11/29/95
Styrene	100-42-5	ND	5	ug/L	11/29/95
1,1,2,2-Tetrachloroethane	79-34-5	ND	5	ug/L	11/29/95
Tetrachloroethene	127-18-4	ND	5	ug/L	11/29/95
Toluene	108-88-3	ND	5	ug/L	11/29/95
1,1,1-Trichloroethane	71-55-6	ND	5	ug/L	11/29/95
1,1,2-Trichloroethane	79-00-5	ND	5	ug/L	11/29/95
Trichloroethene	79-01-6	5 *	5	ug/L	11/29/95
Vinyl Acetate	108-05-4	ND	50	ug/L	11/29/95
Vinyl Chloride	75-01-4	ND	10	ug/L	11/29/95
Xylenes, Total	1330-20-7	ND	10	ug/L	11/29/95

ND = Not detected at or above the reporting limit

* = Value at or above reporting limit

AEN (CALIFORNIA)
QUALITY CONTROL REPORT

AEN JOB NUMBER: 9511290

CLIENT PROJECT ID: -

Quality Control and Project Summary

All laboratory quality control parameters were found to be within established limits.

Definitions

Laboratory Control Sample (LCS)/Method Spike(s): Control samples of known composition. LCS and Method Spike data are used to validate batch analytical results.

Matrix Spike(s): Aliquot of a sample (aqueous or solid) with added quantities of specific compounds and subjected to the entire analytical procedure. Matrix spike and matrix spike duplicate QC data are advisory.

Method Blank: An analytical control consisting of all reagents, internal standards, and surrogate standards carried through the entire analytical process. Used to monitor laboratory background and reagent contamination.

Not Detected (ND): Not detected at or above the reporting limit.

Relative Percent Difference (RPD): An indication of method precision based on duplicate analysis.

Reporting Limit (RL): The lowest concentration routinely determined during laboratory operations. The RL is generally 1 to 10 times the Method Detection Limit (MDL). Reporting limits are matrix, method, and analyte dependent and take into account any dilutions performed as part of the analysis.

Surrogates: Organic compounds which are similar to analytes of interest in chemical behavior, but are not found in environmental samples. Surrogates are added to all blanks, calibration and check standards, samples, and spiked samples. Surrogate recovery is monitored as an indication of acceptable sample preparation and instrumental performance.

D: Surrogates diluted out.

#: Indicates result outside of established laboratory QC limits.

QUALITY CONTROL DATA

METHOD: EPA 8240

AEN JOB NO: 9511290
 INSTRUMENT: 12
 MATRIX: WATER

Surrogate Standard Recovery Summary

Date Analyzed	Client Id.	Lab Id.	Percent Recovery		
			1,2-Dichloroethane-d ₄	Toluene-d ₈	p-Bromofluorobenzene
11/29/95	TRIP BLANK	01	104	97	92
11/29/95	MW-1	02	105	91	89
11/29/95	MW-3	03	110	90	90
11/29/95	MW-3 DUPLICATE	04	106	90	90
11/29/95	MW-2	05	109	92	99
QC Limits:			76-114	88-110	86-115

DATE ANALYZED: 11/22/95
 SAMPLE SPIKED: 9511255-03
 INSTRUMENT: 12

Matrix Spike Recovery Summary

Analyte	Spike Added (ug/L)	Average Percent Recovery	RPD	QC Limits	
				Percent Recovery	RPD
1,1-Dichloroethene	50	104	4	59-155	25
Trichloroethene	50	106	8	71-157	25
Benzene	50	99	6	37-151	25
Toluene	50	99	<1	47-150	25
Chlorobenzene	50	100	2	37-160	25

Daily method blanks for all associated analytical runs showed no contamination at or above the reporting limit.

*** END OF REPORT ***

American Environmental Network

Certificate of Analysis

DOHS Certification: 1172

AIHA Accreditation: 11134

PAGE 1

GROVE VALVE & REGULATOR CO.
6529 HOLLIS STREET
EMERYVILLE, CA 94608

ATTN: BILL TALLENT
CLIENT PROJ. ID: -

P.O. NUMBER: PB60146

REPORT DATE: 01/19/96

DATE(S) SAMPLED: 01/09/96

DATE RECEIVED: 01/09/96

AEN WORK ORDER: 9601076

PROJECT SUMMARY:

On January 9, 1996, this laboratory received 5 water sample(s).

Client requested sample(s) be analyzed for organic parameters. Results of analysis are summarized on the following page(s). Please see quality control report for a summary of QC data pertaining to this project.

Samples will be stored for 30 days after completion of analysis, then disposed of in accordance with State and Federal regulations. Samples may be archived by prior arrangement.

If you have any questions, please contact Client Services at (510) 930-9090.


Larry Klein
Laboratory Director

GROVE VALVE & REGULATOR CO.

SAMPLE ID: MW-1
 AEN LAB NO: 9601076-01
 AEN WORK ORDER: 9601076
 CLIENT PROJ. ID: -

DATE SAMPLED: 01/09/96
 DATE RECEIVED: 01/09/96
 REPORT DATE: 01/19/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
Volatile Organic Compounds EPA 8240					
Acetone	67-64-1	ND	100	ug/L	01/13/96
Benzene	71-43-2	ND	5	ug/L	01/13/96
Bromodichloromethane	75-27-4	ND	5	ug/L	01/13/96
Bromoform	75-25-2	ND	5	ug/L	01/13/96
Bromomethane	74-83-9	ND	10	ug/L	01/13/96
2-Butanone	78-93-3	ND	100	ug/L	01/13/96
Carbon Disulfide	75-15-0	ND	10	ug/L	01/13/96
Carbon Tetrachloride	56-23-5	ND	5	ug/L	01/13/96
Chlorobenzene	108-90-7	ND	5	ug/L	01/13/96
Chloroethane	75-00-3	ND	10	ug/L	01/13/96
2-Chloroethyl Vinyl Ether	110-75-8	ND	10	ug/L	01/13/96
Chloroform	67-66-3	ND	5	ug/L	01/13/96
Chloromethane	74-87-3	ND	10	ug/L	01/13/96
Dibromochloromethane	124-48-1	ND	5	ug/L	01/13/96
1,1-Dichloroethane	75-34-3	ND	5	ug/L	01/13/96
1,2-Dichloroethane	107-06-2	ND	5	ug/L	01/13/96
1,1-Dichloroethene	75-35-4	ND	5	ug/L	01/13/96
cis-1,2-Dichloroethene	156-59-2	16 *	5	ug/L	01/13/96
trans-1,2-Dichloroethene	156-60-5	7 *	5	ug/L	01/13/96
1,2-Dichloropropane	78-87-5	ND	5	ug/L	01/13/96
cis-1,3-Dichloropropene	10061-01-5	ND	5	ug/L	01/13/96
trans-1,3-Dichloropropene	10061-02-6	ND	5	ug/L	01/13/96
Ethylbenzene	100-41-4	ND	5	ug/L	01/13/96
2-Hexanone	591-78-6	ND	50	ug/L	01/13/96
Methylene Chloride	75-09-2	ND	20	ug/L	01/13/96
4-Methyl-2-pentanone	108-10-1	ND	50	ug/L	01/13/96
Styrene	100-42-5	ND	5	ug/L	01/13/96
1,1,2,2-Tetrachloroethane	79-34-5	ND	5	ug/L	01/13/96
Tetrachloroethene	127-18-4	ND	5	ug/L	01/13/96
Toluene	108-88-3	ND	5	ug/L	01/13/96
1,1,1-Trichloroethane	71-55-6	ND	5	ug/L	01/13/96
1,1,2-Trichloroethane	79-00-5	ND	5	ug/L	01/13/96
Trichloroethene	79-01-6	61 *	5	ug/L	01/13/96
Vinyl Acetate	108-05-4	ND	50	ug/L	01/13/96
Vinyl Chloride	75-01-4	ND	10	ug/L	01/13/96
Xylenes, Total	1330-20-7	ND	10	ug/L	01/13/96

ND = Not detected at or above the reporting limit
 * = Value at or above reporting limit

GROVE VALVE & REGULATOR CO.

SAMPLE ID: MW-3
 AEN LAB NO: 9601076-02
 AEN WORK ORDER: 9601076
 CLIENT PROJ. ID: -

DATE SAMPLED: 01/09/96
 DATE RECEIVED: 01/09/96
 REPORT DATE: 01/19/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
Volatile Organic Compounds EPA 8240					
Acetone	67-64-1	ND	1000	ug/L	01/12/96
Benzene	71-43-2	ND	50	ug/L	01/12/96
Bromodichloromethane	75-27-4	ND	50	ug/L	01/12/96
Bromoform	75-25-2	ND	50	ug/L	01/12/96
Bromomethane	74-83-9	ND	100	ug/L	01/12/96
2-Butanone	78-93-3	ND	1000	ug/L	01/12/96
Carbon Disulfide	75-15-0	ND	100	ug/L	01/12/96
Carbon Tetrachloride	56-23-5	ND	50	ug/L	01/12/96
Chlorobenzene	108-90-7	ND	50	ug/L	01/12/96
Chloroethane	75-00-3	ND	100	ug/L	01/12/96
2-Chloroethyl Vinyl Ether	110-75-8	ND	100	ug/L	01/12/96
Chloroform	67-66-3	ND	50	ug/L	01/12/96
Chloromethane	74-87-3	ND	100	ug/L	01/12/96
Dibromochloromethane	124-48-1	ND	50	ug/L	01/12/96
1,1-Dichloroethane	75-34-3	ND	50	ug/L	01/12/96
1,2-Dichloroethane	107-06-2	ND	50	ug/L	01/12/96
1,1-Dichloroethene	75-35-4	ND	50	ug/L	01/12/96
cis-1,2-Dichloroethene	156-59-2	ND	50	ug/L	01/12/96
trans-1,2-Dichloroethene	156-60-5	ND	50	ug/L	01/12/96
1,2-Dichloropropane	78-87-5	ND	50	ug/L	01/12/96
cis-1,3-Dichloropropene	10061-01-5	ND	50	ug/L	01/12/96
trans-1,3-Dichloropropene	10061-02-6	ND	50	ug/L	01/12/96
Ethylbenzene	100-41-4	ND	50	ug/L	01/12/96
2-Hexanone	591-78-6	ND	500	ug/L	01/12/96
Methylene Chloride	75-09-2	ND	200	ug/L	01/12/96
4-Methyl-2-pentanone	108-10-1	ND	500	ug/L	01/12/96
Styrene	100-42-5	ND	50	ug/L	01/12/96
1,1,2,2-Tetrachloroethane	79-34-5	ND	50	ug/L	01/12/96
Tetrachloroethene	127-18-4	ND	50	ug/L	01/12/96
Toluene	108-88-3	ND	50	ug/L	01/12/96
1,1,1-Trichloroethane	71-55-6	ND	50	ug/L	01/12/96
1,1,2-Trichloroethane	79-00-5	ND	50	ug/L	01/12/96
Trichloroethene	79-01-6	1,400 *	50	ug/L	01/12/96
Vinyl Acetate	108-05-4	ND	500	ug/L	01/12/96
Vinyl Chloride	75-01-4	ND	100	ug/L	01/12/96
Xylenes, Total	1330-20-7	ND	100	ug/L	01/12/96

GROVE VALVE & REGULATOR CO.

SAMPLE ID: MW-3
AEN LAB NO: 9601076-02
AEN WORK ORDER: 9601076
CLIENT PROJ. ID: -

DATE SAMPLED: 01/09/96
DATE RECEIVED: 01/09/96
REPORT DATE: 01/19/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
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Reporting limits elevated due to high levels of target compounds. Sample run at dilution.

ND = Not detected at or above the reporting limit
* = Value at or above reporting limit

GROVE VALVE & REGULATOR CO.

SAMPLE ID: MW-3 DUP
 AEN LAB NO: 9601076-03
 AEN WORK ORDER: 9601076
 CLIENT PROJ. ID: -

DATE SAMPLED: 01/09/96
 DATE RECEIVED: 01/09/96
 REPORT DATE: 01/19/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
Volatile Organic Compounds EPA 8240					
Acetone	67-64-1	ND	1000	ug/L	01/16/96
Benzene	71-43-2	ND	50	ug/L	01/16/96
Bromodichloromethane	75-27-4	ND	50	ug/L	01/16/96
Bromoform	75-25-2	ND	50	ug/L	01/16/96
Bromomethane	74-83-9	ND	100	ug/L	01/16/96
2-Butanone	78-93-3	ND	1000	ug/L	01/16/96
Carbon Disulfide	75-15-0	ND	100	ug/L	01/16/96
Carbon Tetrachloride	56-23-5	ND	50	ug/L	01/16/96
Chlorobenzene	108-90-7	ND	50	ug/L	01/16/96
Chloroethane	75-00-3	ND	100	ug/L	01/16/96
2-Chloroethyl Vinyl Ether	110-75-8	ND	100	ug/L	01/16/96
Chloroform	67-66-3	ND	50	ug/L	01/16/96
Chloromethane	74-87-3	ND	100	ug/L	01/16/96
Dibromochloromethane	124-48-1	ND	50	ug/L	01/16/96
1,1-Dichloroethane	75-34-3	ND	50	ug/L	01/16/96
1,2-Dichloroethane	107-06-2	ND	50	ug/L	01/16/96
1,1-Dichloroethene	75-35-4	ND	50	ug/L	01/16/96
cis-1,2-Dichloroethene	156-59-2	ND	50	ug/L	01/16/96
trans-1,2-Dichloroethene	156-60-5	ND	50	ug/L	01/16/96
1,2-Dichloropropane	78-87-5	ND	50	ug/L	01/16/96
cis-1,3-Dichloropropene	10061-01-5	ND	50	ug/L	01/16/96
trans-1,3-Dichloropropene	10061-02-6	ND	50	ug/L	01/16/96
Ethylbenzene	100-41-4	ND	50	ug/L	01/16/96
2-Hexanone	591-78-6	ND	500	ug/L	01/16/96
Methylene Chloride	75-09-2	ND	200	ug/L	01/16/96
4-Methyl-2-pentanone	108-10-1	ND	500	ug/L	01/16/96
Styrene	100-42-5	ND	50	ug/L	01/16/96
1,1,2,2-Tetrachloroethane	79-34-5	ND	50	ug/L	01/16/96
Tetrachloroethene	127-18-4	ND	50	ug/L	01/16/96
Toluene	108-88-3	ND	50	ug/L	01/16/96
1,1,1-Trichloroethane	71-55-6	ND	50	ug/L	01/16/96
1,1,2-Trichloroethane	79-00-5	ND	50	ug/L	01/16/96
Trichloroethene	79-01-6	1,100 *	50	ug/L	01/16/96
Vinyl Acetate	108-05-4	ND	500	ug/L	01/16/96
Vinyl Chloride	75-01-4	ND	100	ug/L	01/16/96
Xylenes, Total	1330-20-7	ND	100	ug/L	01/16/96

GROVE VALVE & REGULATOR CO.

SAMPLE ID: MW-3 DUP
AEN LAB NO: 9601076-03
AEN WORK ORDER: 9601076
CLIENT PROJ. ID: -

DATE SAMPLED: 01/09/96
DATE RECEIVED: 01/09/96
REPORT DATE: 01/19/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
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Reporting limits elevated due to high levels of target compounds. Sample run at dilution.

ND = Not detected at or above the reporting limit
* = Value at or above reporting limit

GROVE VALVE & REGULATOR CO.

SAMPLE ID: MW-2
 AEN LAB NO: 9601076-04
 AEN WORK ORDER: 9601076
 CLIENT PROJ. ID: -

DATE SAMPLED: 01/09/96
 DATE RECEIVED: 01/09/96
 REPORT DATE: 01/19/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
Volatile Organic Compounds EPA 8240					
Acetone	67-64-1	ND	100	ug/L	01/13/96
Benzene	71-43-2	ND	5	ug/L	01/13/96
Bromodichloromethane	75-27-4	ND	5	ug/L	01/13/96
Bromoform	75-25-2	ND	5	ug/L	01/13/96
Bromomethane	74-83-9	ND	10	ug/L	01/13/96
2-Butanone	78-93-3	ND	100	ug/L	01/13/96
Carbon Disulfide	75-15-0	ND	10	ug/L	01/13/96
Carbon Tetrachloride	56-23-5	ND	5	ug/L	01/13/96
Chlorobenzene	108-90-7	ND	5	ug/L	01/13/96
Chloroethane	75-00-3	ND	10	ug/L	01/13/96
2-Chloroethyl Vinyl Ether	110-75-8	ND	10	ug/L	01/13/96
Chloroform	67-66-3	ND	5	ug/L	01/13/96
Chloromethane	74-87-3	ND	10	ug/L	01/13/96
Dibromochloromethane	124-48-1	ND	5	ug/L	01/13/96
1,1-Dichloroethane	75-34-3	ND	5	ug/L	01/13/96
1,2-Dichloroethane	107-06-2	ND	5	ug/L	01/13/96
1,1-Dichloroethene	75-35-4	ND	5	ug/L	01/13/96
cis-1,2-Dichloroethene	156-59-2	ND	5	ug/L	01/13/96
trans-1,2-Dichloroethene	156-60-5	ND	5	ug/L	01/13/96
1,2-Dichloropropane	78-87-5	ND	5	ug/L	01/13/96
cis-1,3-Dichloropropene	10061-01-5	ND	5	ug/L	01/13/96
trans-1,3-Dichloropropene	10061-02-6	ND	5	ug/L	01/13/96
Ethylbenzene	100-41-4	ND	5	ug/L	01/13/96
2-Hexanone	591-78-6	ND	50	ug/L	01/13/96
Methylene Chloride	75-09-2	ND	20	ug/L	01/13/96
4-Methyl-2-pentanone	108-10-1	ND	50	ug/L	01/13/96
Styrene	100-42-5	ND	5	ug/L	01/13/96
1,1,2,2-Tetrachloroethane	79-34-5	ND	5	ug/L	01/13/96
Tetrachloroethene	127-18-4	ND	5	ug/L	01/13/96
Toluene	108-88-3	ND	5	ug/L	01/13/96
1,1,1-Trichloroethane	71-55-6	ND	5	ug/L	01/13/96
1,1,2-Trichloroethane	79-00-5	ND	5	ug/L	01/13/96
Trichloroethene	79-01-6	7 *	5	ug/L	01/13/96
Vinyl Acetate	108-05-4	ND	50	ug/L	01/13/96
Vinyl Chloride	75-01-4	ND	10	ug/L	01/13/96
Xylenes, Total	1330-20-7	ND	10	ug/L	01/13/96

ND = Not detected at or above the reporting limit

* = Value at or above reporting limit

GROVE VALVE & REGULATOR CO.

SAMPLE ID: TRAVEL BLANK
 AEN LAB NO: 9601076-05
 AEN WORK ORDER: 9601076
 CLIENT PROJ. ID: -

DATE SAMPLED: 01/09/96
 DATE RECEIVED: 01/09/96
 REPORT DATE: 01/19/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
Volatile Organic Compounds	EPA 8240				
Acetone	67-64-1	ND	100	ug/L	01/13/96
Benzene	71-43-2	ND	5	ug/L	01/13/96
Bromodichloromethane	75-27-4	ND	5	ug/L	01/13/96
Bromoform	75-25-2	ND	5	ug/L	01/13/96
Bromomethane	74-83-9	ND	10	ug/L	01/13/96
2-Butanone	78-93-3	ND	100	ug/L	01/13/96
Carbon Disulfide	75-15-0	ND	10	ug/L	01/13/96
Carbon Tetrachloride	56-23-5	ND	5	ug/L	01/13/96
Chlorobenzene	108-90-7	ND	5	ug/L	01/13/96
Chloroethane	75-00-3	ND	10	ug/L	01/13/96
2-Chloroethyl Vinyl Ether	110-75-8	ND	10	ug/L	01/13/96
Chloroform	67-66-3	ND	5	ug/L	01/13/96
Chloromethane	74-87-3	ND	10	ug/L	01/13/96
Dibromochloromethane	124-48-1	ND	5	ug/L	01/13/96
1,1-Dichloroethane	75-34-3	ND	5	ug/L	01/13/96
1,2-Dichloroethane	107-06-2	ND	5	ug/L	01/13/96
1,1-Dichloroethene	75-35-4	ND	5	ug/L	01/13/96
cis-1,2-Dichloroethene	156-59-2	ND	5	ug/L	01/13/96
trans-1,2-Dichloroethene	156-60-5	ND	5	ug/L	01/13/96
1,2-Dichloropropane	78-87-5	ND	5	ug/L	01/13/96
cis-1,3-Dichloropropene	10061-01-5	ND	5	ug/L	01/13/96
trans-1,3-Dichloropropene	10061-02-6	ND	5	ug/L	01/13/96
Ethylbenzene	100-41-4	ND	5	ug/L	01/13/96
2-Hexanone	591-78-6	ND	50	ug/L	01/13/96
Methylene Chloride	75-09-2	ND	20	ug/L	01/13/96
4-Methyl-2-pentanone	108-10-1	ND	50	ug/L	01/13/96
Styrene	100-42-5	ND	5	ug/L	01/13/96
1,1,1,2-Tetrachloroethane	79-34-5	ND	5	ug/L	01/13/96
Tetrachloroethene	127-18-4	ND	5	ug/L	01/13/96
Toluene	108-88-3	ND	5	ug/L	01/13/96
1,1,1-Trichloroethane	71-55-6	ND	5	ug/L	01/13/96
1,1,2-Trichloroethane	79-00-5	ND	5	ug/L	01/13/96
Trichloroethene	79-01-6	ND	5	ug/L	01/13/96
Vinyl Acetate	108-05-4	ND	50	ug/L	01/13/96
Vinyl Chloride	75-01-4	ND	10	ug/L	01/13/96
Xylenes, Total	1330-20-7	ND	10	ug/L	01/13/96

ND = Not detected at or above the reporting limit
 * = Value at or above reporting limit

AEN (CALIFORNIA)
QUALITY CONTROL REPORT

AEN JOB NUMBER: 9601076

CLIENT PROJECT ID: -

Quality Control and Project Summary

All laboratory quality control parameters were found to be within established limits.

Definitions

Laboratory Control Sample (LCS)/Method Spike(s): Control samples of known composition. LCS and Method Spike data are used to validate batch analytical results.

Matrix Spike(s): Aliquot of a sample (aqueous or solid) with added quantities of specific compounds and subjected to the entire analytical procedure. Matrix spike and matrix spike duplicate QC data are advisory.

Method Blank: An analytical control consisting of all reagents, internal standards, and surrogate standards carried through the entire analytical process. Used to monitor laboratory background and reagent contamination.

Not Detected (ND): Not detected at or above the reporting limit.

Relative Percent Difference (RPD): An indication of method precision based on duplicate analysis.

Reporting Limit (RL): The lowest concentration routinely determined during laboratory operations. The RL is generally 1 to 10 times the Method Detection Limit (MDL). Reporting limits are matrix, method, and analyte dependent and take into account any dilutions performed as part of the analysis.

Surrogates: Organic compounds which are similar to analytes of interest in chemical behavior, but are not found in environmental samples. Surrogates are added to all blanks, calibration and check standards, samples, and spiked samples. Surrogate recovery is monitored as an indication of acceptable sample preparation and instrumental performance.

D: Surrogates diluted out.

#: Indicates result outside of established laboratory QC limits.

QUALITY CONTROL DATA

METHOD: EPA 8240

AEN JOB NO: 9601076
 INSTRUMENT: 13
 MATRIX: WATER

Surrogate Standard Recovery Summary

Date Analyzed	Client Id.	Lab Id.	Percent Recovery		
			1,2-Dichloroethane-d ₄	Toluene-d ₈	p-Bromofluorobenzene
01/13/96	MW-1	01	98	99	91
01/12/96	MW-3	02	101	91	87
01/16/96	MW-3 DUP	03	110	96	95
01/13/96	MW-2	04	86	96	91
01/13/96	TRAVEL BLANK	05	99	96	89
QC Limits:			76-114	88-110	86-115

DATE ANALYZED: 01/05/96
 SAMPLE SPIKED: 9512290-07
 INSTRUMENT: 13

Matrix Spike Recovery Summary

Analyte	Spike Added (ug/L)	Average Percent Recovery	RPD	QC Limits	
				Percent Recovery	RPD
1,1-Dichloroethene	50	84	20	59-155	25
Trichloroethene	50	93	15	71-157	25
Benzene	50	127	4	37-151	25
Toluene	50	99	2	47-150	25
Chlorobenzene	50	98	1	37-160	25

Daily method blanks for all associated analytical runs showed no contamination at or above the reporting limit.

*** END OF REPORT ***

**ATTACHMENT 4 -- Laboratory Analytical Report
for Sanitary Sewer Discharge
Monitoring Event**

American Environmental Network

11/18/95

QSA Accreditation 11/18/95

PAGE 1

GROVE VALVE & REGULATOR CO.
11100 WEST AIRPORT BLVD.
STAFFORD, TX 77477-3014

REPORT DATE: 12/27/95

DATE(S) SAMPLED: 12/18/95

DATE RECEIVED: 12/18/95

ATTN: BILL TALLENT
CLIENT PROJ. ID: -

AEN WORK ORDER: 9512230

P.O. NUMBER: PB60146

PROJECT SUMMARY:

On December 18, 1995, this laboratory received 2 water sample(s).

Client requested sample(s) be analyzed for organic parameters. Results of analysis are summarized on the following page(s). Please see quality control report for a summary of QC data pertaining to this project.

Samples will be stored for 30 days after completion of analysis, then disposed of in accordance with State and Federal regulations. Samples may be archived by prior arrangement.

If you have any questions, please contact Client Services at (510) 930-9090.


Larry Klein
Laboratory Director

GROVE VALVE & REGULATOR CO.

SAMPLE ID: PORT-1 (PRE-TREATMENT)
 AEN LAB NO: 9512230-01
 AEN WORK ORDER: 9512230
 CLIENT PROJ. ID: -

DATE SAMPLED: 12/18/95
 DATE RECEIVED: 12/18/95
 REPORT DATE: 12/27/95

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
Volatile Organic Compounds EPA 8240					
Acetone	67-64-1	ND	100	ug/L	12/20/95
Benzene	71-43-2	ND	5	ug/L	12/20/95
Bromodichloromethane	75-27-4	ND	5	ug/L	12/20/95
Bromoform	75-25-2	ND	5	ug/L	12/20/95
Bromomethane	74-83-9	ND	10	ug/L	12/20/95
2-Butanone	78-93-3	ND	100	ug/L	12/20/95
Carbon Disulfide	75-15-0	ND	10	ug/L	12/20/95
Carbon Tetrachloride	56-23-5	ND	5	ug/L	12/20/95
Chlorobenzene	108-90-7	ND	5	ug/L	12/20/95
Chloroethane	75-00-3	ND	10	ug/L	12/20/95
2-Chloroethyl Vinyl Ether	110-75-8	ND	10	ug/L	12/20/95
Chloroform	67-66-3	ND	5	ug/L	12/20/95
Chloromethane	74-87-3	ND	10	ug/L	12/20/95
Dibromochloromethane	124-48-1	ND	5	ug/L	12/20/95
1,1-Dichloroethane	75-34-3	ND	5	ug/L	12/20/95
1,2-Dichloroethane	107-06-2	ND	5	ug/L	12/20/95
1,1-Dichloroethene	75-35-4	27 *	5	ug/L	12/20/95
cis-1,2-Dichloroethene	156-59-2	ND	5	ug/L	12/20/95
trans-1,2-Dichloroethene	156-60-5	ND	5	ug/L	12/20/95
1,2-Dichloropropane	78-87-5	ND	5	ug/L	12/20/95
cis-1,3-Dichloropropene	10061-01-5	ND	5	ug/L	12/20/95
trans-1,3-Dichloropropene	10061-02-6	ND	5	ug/L	12/20/95
Ethylbenzene	100-41-4	ND	5	ug/L	12/20/95
2-Hexanone	591-78-6	ND	50	ug/L	12/20/95
Methylene Chloride	75-09-2	ND	20	ug/L	12/20/95
4-Methyl-2-pentanone	108-10-1	ND	50	ug/L	12/20/95
Styrene	100-42-5	ND	5	ug/L	12/20/95
1,1,2,2-Tetrachloroethane	79-34-5	ND	5	ug/L	12/20/95
Tetrachloroethene	127-18-4	ND	5	ug/L	12/20/95
Toluene	108-88-3	ND	5	ug/L	12/20/95
1,1,1-Trichloroethane	71-55-6	28 *	5	ug/L	12/20/95
1,1,2-Trichloroethane	79-00-5	ND	5	ug/L	12/20/95
Trichloroethene	79-01-6	64 *	5	ug/L	12/20/95
Vinyl Acetate	108-05-4	ND	50	ug/L	12/20/95
Vinyl Chloride	75-01-4	ND	10	ug/L	12/20/95
Xylenes, Total	1330-20-7	ND	10	ug/L	12/20/95

ND = Not detected at or above the reporting limit

* = Value at or above reporting limit

GROVE VALVE & REGULATOR CO.

SAMPLE ID: PORT-3
 AEN LAB NO: 9512230-02
 AEN WORK ORDER: 9512230
 CLIENT PROJ. ID: -

(POST-TREATMENT)

DATE SAMPLED: 12/18/95
 DATE RECEIVED: 12/18/95
 REPORT DATE: 12/27/95

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
Volatile Organic Compounds EPA 8240					
Acetone	67-64-1	ND	100	ug/L	12/20/95
Benzene	71-43-2	ND	5	ug/L	12/20/95
Bromodichloromethane	75-27-4	ND	5	ug/L	12/20/95
Bromoform	75-25-2	ND	5	ug/L	12/20/95
Bromomethane	74-83-9	ND	10	ug/L	12/20/95
2-Butanone	78-93-3	ND	100	ug/L	12/20/95
Carbon Disulfide	75-15-0	ND	10	ug/L	12/20/95
Carbon Tetrachloride	56-23-5	ND	5	ug/L	12/20/95
Chlorobenzene	108-90-7	ND	5	ug/L	12/20/95
Chloroethane	75-00-3	ND	10	ug/L	12/20/95
2-Chloroethyl Vinyl Ether	110-75-8	ND	10	ug/L	12/20/95
Chloroform	67-66-3	ND	5	ug/L	12/20/95
Chloromethane	74-87-3	ND	10	ug/L	12/20/95
Dibromochloromethane	124-48-1	ND	5	ug/L	12/20/95
1,1-Dichloroethane	75-34-3	ND	5	ug/L	12/20/95
1,2-Dichloroethane	107-06-2	ND	5	ug/L	12/20/95
1,1-Dichloroethene	75-35-4	ND	5	ug/L	12/20/95
cis-1,2-Dichloroethene	156-59-2	ND	5	ug/L	12/20/95
trans-1,2-Dichloroethene	156-60-5	ND	5	ug/L	12/20/95
1,2-Dichloropropane	78-87-5	ND	5	ug/L	12/20/95
cis-1,3-Dichloropropene	10061-01-5	ND	5	ug/L	12/20/95
trans-1,3-Dichloropropene	10061-02-6	ND	5	ug/L	12/20/95
Ethylbenzene	100-41-4	ND	5	ug/L	12/20/95
2-Hexanone	591-78-6	ND	50	ug/L	12/20/95
Methylene Chloride	75-09-2	ND	20	ug/L	12/20/95
4-Methyl-2-pentanone	108-10-1	ND	50	ug/L	12/20/95
Styrene	100-42-5	ND	5	ug/L	12/20/95
1,1,2,2-Tetrachloroethane	79-34-5	ND	5	ug/L	12/20/95
Tetrachloroethene	127-18-4	ND	5	ug/L	12/20/95
Toluene	108-88-3	ND	5	ug/L	12/20/95
1,1,1-Trichloroethane	71-55-6	ND	5	ug/L	12/20/95
1,1,2-Trichloroethane	79-00-5	ND	5	ug/L	12/20/95
Trichloroethene	79-01-6	ND	5	ug/L	12/20/95
Vinyl Acetate	108-05-4	ND	50	ug/L	12/20/95
Vinyl Chloride	75-01-4	ND	10	ug/L	12/20/95
Xylenes, Total	1330-20-7	ND	10	ug/L	12/20/95

ND = Not detected at or above the reporting limit
 * = Value at or above reporting limit

AEN (CALIFORNIA)
QUALITY CONTROL REPORT

AEN JOB NUMBER: 9512230

CLIENT PROJECT ID: -

Quality Control and Project Summary

All laboratory quality control parameters were found to be within established limits.

Definitions

Laboratory Control Sample (LCS)/Method Spike(s): Control samples of known composition. LCS and Method Spike data are used to validate batch analytical results.

Matrix Spike(s): Aliquot of a sample (aqueous or solid) with added quantities of specific compounds and subjected to the entire analytical procedure. Matrix spike and matrix spike duplicate QC data are advisory.

Method Blank: An analytical control consisting of all reagents, internal standards, and surrogate standards carried through the entire analytical process. Used to monitor laboratory background and reagent contamination.

Not Detected (ND): Not detected at or above the reporting limit.

Relative Percent Difference (RPD): An indication of method precision based on duplicate analysis.

Reporting Limit (RL): The lowest concentration routinely determined during laboratory operations. The RL is generally 1 to 10 times the Method Detection Limit (MDL). Reporting limits are matrix, method, and analyte dependent and take into account any dilutions performed as part of the analysis.

Surrogates: Organic compounds which are similar to analytes of interest in chemical behavior, but are not found in environmental samples. Surrogates are added to all blanks, calibration and check standards, samples, and spiked samples. Surrogate recovery is monitored as an indication of acceptable sample preparation and instrumental performance.

D: Surrogates diluted out.

#: Indicates result outside of established laboratory QC limits.

QUALITY CONTROL DATA

METHOD: EPA 8240

AEN JOB NO: 9512230
 INSTRUMENT: 13
 MATRIX: WATER

Surrogate Standard Recovery Summary

Date Analyzed	Client Id.	Lab Id.	Percent Recovery		
			1,2-Dichloroethane-d ₄	Toluene-d ₈	p-Bromofluorobenzene
12/20/95	PORT-1	01	112	97	95
12/20/95	PORT-3	02	108	100	97
QC Limits:			76-114	88-110	86-115

DATE ANALYZED: 12/20/95
 SAMPLE SPIKED: 9512195-05
 INSTRUMENT: 13

Matrix Spike Recovery Summary

Analyte	Spike Added (ug/L)	Average Percent Recovery	RPD	QC Limits	
				Percent Recovery	RPD
1,1-Dichloroethene	50	120	4	59-155	25
Trichloroethene	50	104	<1	71-157	25
Benzene	50	113	3	37-151	25
Toluene	50	99	3	47-150	25
Chlorobenzene	50	101	1	37-160	25

Daily method blanks for all associated analytical runs showed no contamination at or above the reporting limit.

*** END OF REPORT ***

