



Environmental Management & Engineering, Inc.

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June 30, 1997

VIA AIRBORNE EXPRESS

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

RE: Grove Valve and Regulator Company, Emeryville, CA - Reduction/Discontinue
Groundwater Monitoring for TCE Impacts from an Off-Site Source
DRS-95-E942

Dear Ms. Hugo:

Thank you for taking the time to meet with Dr. Gene Gonsoulin and myself during our recent visit on May 21, 1997. The purpose of this letter report is to briefly summarize the site activities to date at the Grove Valve and Regulator Company facility and to propose a reduction and cessation in the groundwater monitoring for the site.

As you are aware, Grove Valve and Regulator Co. (Grove) has been conducting groundwater monitoring at their former facility located at 6529 Hollis Street in Emeryville, CA for several years now to monitor TCE which has been detected in area groundwater. The Grove facility is situated on approximately seven acres in an area of Emeryville that is highly developed with manufacturing, warehouses, commercial offices, etc. Grove has been involved in the development, manufacture and sale of valves and pressure regulators for the oil and gas industry. Based on the considerable amount of analytical data gathered to date, it is Grove's contention that the TCE being detected in the three groundwater monitoring wells on-site is a migrating slug of contamination from an off-site source. This is based on a number of facts, including the following.

- Previous off-site investigations by neighboring industries have indicated that TCE contamination is area wide. In fact, at least 13 monitoring wells on nearby property upgradient or cross-gradient from Grove have revealed concentrations of TCE in groundwater.
- Elevated TCE concentrations have been present in the upgradient monitoring well (MW-1) in every monitoring event (over 100 ppb when monitoring began in 1992).
- Grove has no history of TCE use at the site.

TO: MS. S. L. HUGO
FROM: J. L. HARRIS
DATE: 6/30/97
TIME: 10:00 AM

Ms. Susan L. Hugo
Alameda County Health Care Services Agency
June 30, 1997
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- Considerable soil investigation activities on-site have revealed no apparent on-site source. A total of 33 soil samples collected from the site have been analyzed for VOC's.

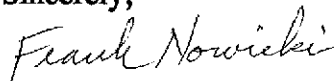
A review of the history of groundwater analytical data for the site indicates that the TCE concentrations in groundwater are declining over time. As indicated by the May 1997 sampling results, which were recently submitted to you, the TCE concentration in MW-3 has dropped from 1400 ppb (January 1996) to 490 ppb (May 1997). Figure 1 summarizes graphically the decline in TCE concentrations. Analytical data for all three monitoring wells, dating back to 1992 is summarized in Table 1.

During our meeting, you had requested an investigation of possible exposure pathways. In order to evaluate whether any potential receptors would likely be impacted. To address this concern, air monitoring was performed at the only known possible exposure pathway, in the basement of the facility adjacent to the elevator shaft where groundwater is being pumped via a small air stripper to the sanitary sewer under permit. The monitoring was performed by Slakey and Associates of Orinda, CA on June 20, 1997. The concentration of TCE detected during the sampling (5 ppb) was several orders of magnitude lower than the most stringent air quality exposure standard. Documentation regarding the air monitoring is included in Attachment 1.

Based on the above information, we are proposing that the frequency of monitoring be reduced as we discussed during our meeting. As discussed, an additional monitoring would take place in approximately 6 months (December, 1997). If the results of that monitoring continue in the trend as reflected in Figure 1, we herein request that the monitoring be discontinued.

Should you have any questions or need further information, please let us know. We appreciate your assistance with this project. Thank you for your kind consideration.

Sincerely,



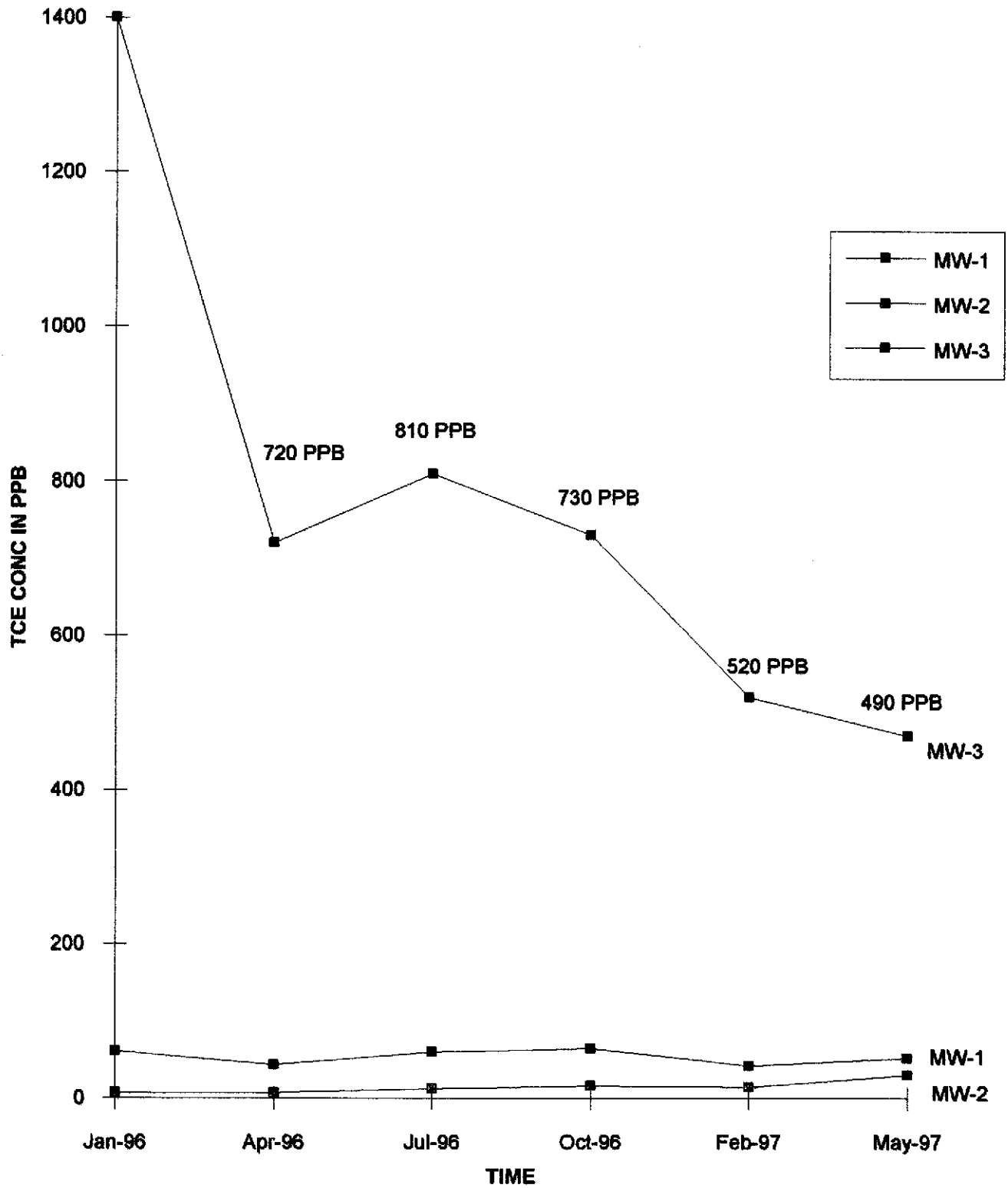
Frank M. Nowicki
Vice President

FMN:njk

Enclosure

cc: Mr. Lee DeNooyer
Mr. Stuart Brightman

**FIGURE 1 - SUMMARY OF QUARTERLY GROUNDWATER MONITORING RESULTS
GROVE VALVE AND REGULATOR COMPANY, EMERYVILLE, CA**



MW-1 IS LOCATED ON THE UPGRAIDENT PROPERTY BOUNDRY

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-1	MW-1	MW-1	MW-1	MW-1	MW-1R	MW-2	MW-2	MW-2	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	Apr-96	Jul-96	Oct-96	Feb-97	May-97	Mar-92	Mar-92	Oct-92	Feb-93	Apr-95	Aug-95	Sep-95	Nov-95	Jan-96	Apr-96	Jul-96	
AROMATIC HYDROCARBONS																												
Benzene	NA	NA	ND	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	NA	NA	ND	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2 Dichlorobenzene	NA	NA	ND	NA	NA	ND	ND	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	NA	NA	NA	NA	NA	ND	ND
1,3 Dichlorobenzene	NA	NA	ND	NA	NA	ND	ND	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	NA	NA	NA	NA	NA	ND	ND
1,4 Dichlorobenzene	NA	NA	ND	NA	NA	ND	ND	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	NA	NA	NA	NA	NA	ND	ND
Ethylbenzene	NA	NA	ND	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	NA	NA	ND	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylene	NA	NA	ND	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
HALOGENATED ORGANICS																												
Bromodichloromethane	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	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	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	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	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	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	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	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	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	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	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	ND	4.1	ND	ND	ND	3	2	2	2	ND	ND	ND	ND	3.2	3.3	
1,2 Dichloroethane	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	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	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	12	15	15	10	14	ND	2	1	2	0.9	ND	ND	ND	ND	1.2	1.8	
trans-1,2-Dichloroethene	ND	3	12	8	8	5	7	ND	7	7	7	4.1	5.3	ND	3	5.8	ND	ND	ND	ND	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	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	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	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	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	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	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	ND	ND	ND	ND	ND	0.6	0.8	ND	ND	ND	ND	ND	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	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	160	180	103	99	98	53	79	46	54	61	61	43	60	64	42	52	ND	4	3	3	5	ND	ND	5	7	6.7	12	
Trichlorofluoromethane	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	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	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	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
 Shaded Area Indicates Recent Sampling Results

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

Grove Valve Regulator Co.	MW-2	MW-2	MW-2	MW-2D	MW-3	MW-3	MW-3	MW-3	MW-3	MW-3	MW-3D	MW-3	MW-3D	MW-3	MW-3D	MW-3	MW-3D	MW-3	MW-3D	MW-3	MW-3D	MW-3	MW-3D	MW-3	MW-3D	
Emeryville, CA	Oct-96	Feb-97	May-97	Mar-92	Mar-92	Oct-92	Feb-93	Apr-95	Aug-95	Sep-95	Sep-95	Nov-95	Nov-95	Jan-96	Jan-96	Apr-96	Apr-96	Jul-96	Jul-96	Oct-96	Oct-96	Feb-97	Feb-97	May-97	May-97	
AROMATIC HYDROCARBONS																										
Benzene	ND	ND	ND	NA	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	ND	ND	ND	NA	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2 Dichlorobenzene	ND	ND	ND	NA	ND	NA	ND	ND	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3 Dichlorobenzene	ND	ND	ND	NA	ND	NA	ND	ND	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4 Dichlorobenzene	ND	ND	ND	NA	ND	NA	ND	ND	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	ND	ND	ND	NA	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	ND	ND	ND	NA	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylene	ND	ND	ND	NA	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	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	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	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	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	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	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	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	ND	ND	ND	ND	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	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	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	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	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1 Dichloroethane	ND	2.3	4.5	3	0.6	0.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2 Dichloroethane	ND	ND	1	ND	ND	0.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1 Dichloroethene	ND	ND	0.9	ND	2	1	1	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	0.8	1.3	2.9	2	18	13	13	28	19	ND	ND	ND	ND	ND	ND	34	36	40	40	22	23	21	21	47	46	
trans-1,2-Dichloroethene	1.2	ND	ND	ND	ND	ND	1	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2 Dichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	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	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	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	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	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	ND	ND	ND	ND	ND	ND	ND	8	8	17	18	
1,1,1 Trichloroethane	ND	ND	ND	0.6	0.5	0.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	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	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	16	14	30	4	1300	1100	1200	800	1400	1200	1200	1400	1200	1400	1100	720	770	810	710	730	770	490	520	470	490	
Trichlorofluoromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	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	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride	ND	ND	ND	ND	5	2	3	9	ND	ND	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
 Shaded Area Indicates Recent Sampling Results

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-1	MW-1	MW-1	MW-1	MW-1	MW-1R	MW-2	MW-2	MW-2	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	Apr-96	Jul-96	Oct-96	Feb-97	May-97	Mar-92	Mar-92	Oct-92	Feb-93	Apr-95	Aug-95	Sep-95	Nov-95	Jan-96	Apr-96	Jul-96
PESTICIDES & PCB'S																											
Aldrin	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	NA	NA	NA	NA	NA	NA	NA
alpha-BHC	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	NA	NA	NA	NA	NA	NA	NA
beta-BHC	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	NA	NA	NA	NA	NA	NA	NA
delta-BHC	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	NA	NA	NA	NA	NA	NA	NA
gamma-BHC	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	NA	NA	NA	NA	NA	NA	NA
Chlordane	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	NA	NA	NA	NA	NA	NA	NA
4,4 DDD	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	NA	NA	NA	NA	NA	NA	NA
2,4 DDD	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	NA	NA	NA	NA	NA	NA	NA
4,4 DDE	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	NA	NA	NA	NA	NA	NA	NA
2,4 DDE	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	NA	NA	NA	NA	NA	NA	NA
4,4 DDT	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	NA	NA	NA	NA	NA	NA	NA
2,4 DDT	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	NA	NA	NA	NA	NA	NA	NA
Dieldrin	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	NA	NA	NA	NA	NA	NA	NA
Endosulfan I	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	NA	NA	NA	NA	NA	NA	NA
Endosulfan II	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	NA	NA	NA	NA	NA	NA	NA
Endosulfan Sulfate	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	NA	NA	NA	NA	NA	NA	NA
Endrin	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	NA	NA	NA	NA	NA	NA	NA
Endrin Aldehyde	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	NA	NA	NA	NA	NA	NA	NA
Heptachlor	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	NA	NA	NA	NA	NA	NA	NA
Heptachlor Epoxide	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	NA	NA	NA	NA	NA	NA	NA
Methoxychlor	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	NA	NA	NA	NA	NA	NA	NA
Toxaphene	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	NA	NA	NA	NA	NA	NA	NA
PCB-1016	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	NA	NA	NA	NA	NA	NA	NA
PCB-1221	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	NA	NA	NA	NA	NA	NA	NA
PCB-1232	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	NA	NA	NA	NA	NA	NA	NA
PCB-1242	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	NA	NA	NA	NA	NA	NA	NA
PCB-1248	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	NA	NA	NA	NA	NA	NA	NA
PCB-1254	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	NA	NA	NA	NA	NA	NA	NA
PCB-1260	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	NA	NA	NA	NA	NA	NA	NA
Oil & grease (EPA Method 5520C)	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	NA	NA	ND	ND	NA	NA	NA	NA	NA	ND	ND
Hydrocarbons (EPA Method 5520)	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	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
 Shaded Area Indicates Recent Sampling Results

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

Grove Valve Regulator Co.	MW-2	MW-2	MW-2	MW-2D	MW-3	MW-3	MW-3	MW-3	MW-3	MW-3	MW-3	MW-3	MW-3	MW-3	MW-3	MW-3	MW-3D	MW-3D	MW-3D	MW-3D	MW-3D	MW-3D	MW-3D	MW-3D	
Emeryville, CA	Oct-96	Feb-97	May-97	Mar-92	Mar-92	Oct-92	Feb-93	Apr-95	Aug-95	Sep-95	Nov-95	Jan-96	Apr-96	Jul-96	Oct-96	Feb-97	May-97	Sep-95	Nov-95	Jan-96	Apr-96	Jul-96	Oct-96	Feb-97	May-97
PESTICIDES & PCB'S																									
Aldrin	NA	NA	NA	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
alpha-BHC	NA	NA	NA	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
beta-BHC	NA	NA	NA	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
delta-BHC	NA	NA	NA	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
gamma-BHC	NA	NA	NA	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlordane	NA	NA	NA	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4,4 DDD	NA	NA	NA	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4 DDD	NA	NA	NA	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4,4 DDE	NA	NA	NA	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4 DDE	NA	NA	NA	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4,4 DDT	NA	NA	NA	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4 DDT	NA	NA	NA	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dieldrin	NA	NA	NA	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Endosulfan I	NA	NA	NA	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Endosulfan II	NA	NA	NA	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Endosulfan Sulfate	NA	NA	NA	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Endrin	NA	NA	NA	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Endrin Aldehyde	NA	NA	NA	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Heptachlor	NA	NA	NA	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Heptachlor Epoxide	NA	NA	NA	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methoxychlor	NA	NA	NA	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Toxaphene	NA	NA	NA	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCB-1016	NA	NA	NA	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCB-1221	NA	NA	NA	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCB-1232	NA	NA	NA	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCB-1242	NA	NA	NA	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCB-1248	NA	NA	NA	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCB-1254	NA	NA	NA	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCB-1260	NA	NA	NA	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & grease (EPA Method 5520C)	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	NA	NA	NA	ND	ND	ND	ND	ND
Hydrocarbons (EPA Method 5520)	NA	NA	NA	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	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
 Shaded Area Indicates Recent Sampling Results

**ATTACHMENT 1 – Basement Air Monitoring
For TCE**

**SLAKEY AND ASSOCIATES***Environmental and Process Consultants
Engineering, Systems & Equipment*P.O. BOX 944 • 375 VILLAGE SQUARE • ORINDA, CALIFORNIA 94563
PHONE: (510) 254-4164 • FAX: (510) 254-0679

June 30, 1997

BY FAX : 205-940-7701

Frank Nowicki
Environmental Management & Engineering
P O Box 19866
Birmingham, AL 35219Re: S & A 97-589
Grove Valve Building
Ambient Air Test

Dear Mr. Nowicki:

Further to our letter report dated June 26, 1997 we would like to reference the level of TCE reported to several standards for exposure to TCE. Please note that the area test results are not directly comparable to the OSHA PEL limit. However, the area test value can serve as a relative evaluation of the exposure expected over an eight or 10 hour period.

The OSHA PEL (TWA) for TCE has been established at 50 ppm. This is the time weighted exposure limit for an 8 hour exposure period. The reported value of the area test was 5 ppb (.005 ppm).

The ASHRAE Ambient Air Quality Standard provides recommended maximum concentrations for various compounds in the ambient air.

For TCE, the ASHRAE Ambient Standards are:

For a 30 minute exposure:	2.93 ppm
For a 24 hour exposure:	0.916 ppm

As you can see, the reported value for TCE at the Grove Valve Building of 5 ppb is several orders of magnitude less than the most stringent standard.

If you require any further information, please feel free to contact us.

Sincerely,

Daniel A. Bodenski, P.E.
Project Manager

**SA****SLAKEY AND ASSOCIATES***Environmental and Process Consultants
Engineering, Systems & Equipment*P.O. BOX 944 • 375 VILLAGE SQUARE • ORINDA, CALIFORNIA 94563
PHONE: (510) 254-4164 • FAX: (510) 254-0679

June 26, 1997

BY FAX : 205-940-7701

Frank Nowicki
Environmental Management & Engineering
P O Box 19866
Birmingham, AL 35219Re: S & A 97-589
Grove Valve Building
Ambient Air Test
Revision # 1

Dear Mr. Nowicki:


At your direction we have taken an ambient air sample in the basement of the Grove Valve building located in Emeryville, California. The sample point selected was adjacent to the elevator pit at 18" above the basement floor elevation.

A passive integrated sample was taken over an eight hour period on June 20, 1997 using a Summa canister. The test period was continuous from 7:00 AM to 3:00 PM. During the test period the ambient air temperature at the test site varied from 62°F to 66° F.

The integrated sample was then analyzed using GC/MS in accordance with EPA Method TO-14. A copy of the laboratory report is appended to this letter report. The laboratory reported only ppb (by volume) quantities of several organics. Trichloroethene (TCE) was reported at 5 ppbv. The caption "not-detected" in the report does not establish that there was none of that compound present, only that, if present, it was below the detection limit of the GC/MS analysis.

If you have any questions regarding the test protocol or analysis, please call. We have appreciated this opportunity to be of service to you.

Sincerely,


Philip B Slakey, PE
President

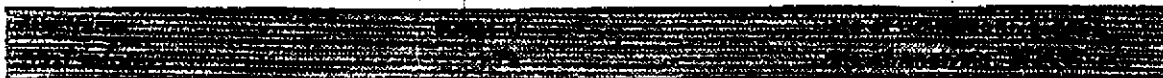
Enclosure:

AIR TOXICS LTD.

SAMPLE NAME : 557-01

ID#: 9706254-01A

EPA METHOD TO-14 GC/MS Full Scan



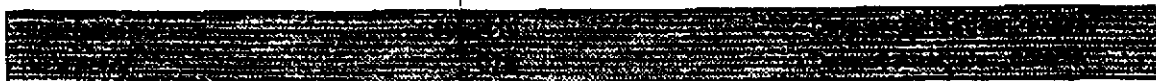
Compound	Det. Limit (ppbv)	Amount (ppbv)
Freon 12	0.90	Not Detected
Freon 114	0.90	Not Detected
Chloromethane	0.90	Not Detected
Vinyl Chloride	0.90	Not Detected
Bromomethane	0.90	Not Detected
Chloroethane	0.90	Not Detected
Freon 11	0.90	Not Detected
1,1-Dichloroethene	0.90	3.4
Freon 113	0.90	Not Detected
Methylene Chloride	0.90	Not Detected
1,1-Dichloroethane	0.90	Not Detected
cis-1,2-Dichloroethene	0.90	Not Detected
Chloroform	0.90	Not Detected
1,1,1-Trichloroethane	0.90	2.1
Carbon Tetrachloride	0.90	Not Detected
Benzene	0.90	Not Detected
1,2-Dichloroethane	0.90	Not Detected
Trichloroethene	0.90	5.0
1,2-Dichloropropane	0.90	Not Detected
cis-1,3-Dichloropropene	0.90	Not Detected
Toluene	0.90	1.2
trans-1,3-Dichloropropene	0.90	Not Detected
1,1,2-Trichloroethane	0.90	Not Detected
Tetrachloroethene	0.90	Not Detected
Ethylene Dibromide	0.90	Not Detected
Chlorobenzene	0.90	Not Detected
Ethyl Benzene	0.90	Not Detected
m,p-Xylene	0.90	Not Detected
o-Xylene	0.90	Not Detected
Styrene	0.90	Not Detected
1,1,2,2-Tetrachloroethane	0.90	Not Detected
1,3,5-Trimethylbenzene	0.90	Not Detected
1,2,4-Trimethylbenzene	0.90	Not Detected
1,3-Dichlorobenzene	0.90	Not Detected
1,4-Dichlorobenzene	0.90	Not Detected
Chlorotoluene	0.90	Not Detected
1,2-Dichlorobenzene	0.90	Not Detected
1,2,4-Trichlorobenzene	0.90	Not Detected
Hexachlorobutadiene	0.90	Not Detected
Propylene	3.6	Not Detected
1,3-Butadiene	3.6	Not Detected
Acetone	3.6	7.8
Carbon Disulfide	3.6	Not Detected
2-Propanol	3.6	34
trans-1,2-Dichloroethene	3.6	Not Detected
Vinyl Acetate	3.6	Not Detected

AIR TOXICS LTD.

SAMPLE NAME : 587-01

ID#: 9706254-01A

EPA METHOD TO-14 GC/MS Full Scan



Compound	Det. Limit (ppbv)	Amount (ppbv)
Chloroprene	3.6	Not Detected
2-Butanone (Methyl Ethyl Ketone)	3.6	Not Detected
Hexane	3.6	Not Detected
Tetrahydrofuran	3.6	Not Detected
Cyclohexane	3.6	Not Detected
1,4-Dioxane	3.6	25
Bromodichloromethane	3.6	Not Detected
4-Methyl-2-pentanone	3.6	Not Detected
2-Hexanone	3.6	Not Detected
Dibromochloromethane	3.6	Not Detected
Bromoform	3.6	Not Detected
4-Ethyltoluene	3.6	Not Detected
Ethanol	3.6	Not Detected
Methyl tert-Butyl Ether	3.6	Not Detected
Heptane	3.6	Not Detected

Container Type: 5 Liter Summa Canister

Surrogates	% Recovery	Method Limits
Octafluorotoluene	106	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	99	70-130

AIR TOXICS LTD.

SAMPLE NAME : Lab Blank

ID#: 9706254-02A

EPA METHOD TO-14 GC/MS Full Scan



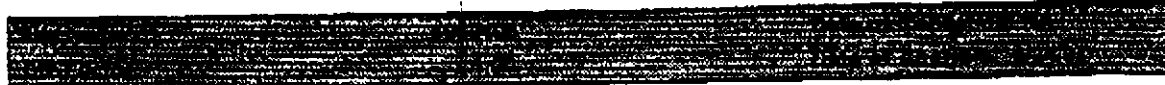
Compound	Det. Limit (ppbv)	Amount (ppbv)
Freon 12	0.60	Not Detected
Freon 114	0.50	Not Detected
Chloromethane	0.50	Not Detected
Vinyl Chloride	0.50	Not Detected
Bromomethane	0.50	Not Detected
Chloroethane	0.50	Not Detected
Freon 11	0.50	Not Detected
1,1-Dichloroethene	0.50	Not Detected
Freon 113	0.50	Not Detected
Methylene Chloride	0.50	Not Detected
1,1-Dichloroethane	0.60	Not Detected
cis-1,2-Dichloroethane	0.50	Not Detected
Chloroform	0.60	Not Detected
1,1,1-Trichloroethane	0.60	Not Detected
Carbon Tetrachloride	0.50	Not Detected
Benzene	0.50	Not Detected
1,2-Dichloroethane	0.50	Not Detected
Trichloroethane	0.50	Not Detected
1,2-Dichloropropane	0.50	Not Detected
cis-1,3-Dichloropropene	0.50	Not Detected
Toluene	0.50	Not Detected
trans-1,3-Dichloropropene	0.50	Not Detected
1,1,2-Trichloroethane	0.50	Not Detected
Tetrachloroethane	0.50	Not Detected
Ethylene Dibromide	0.50	Not Detected
Chlorobenzene	0.50	Not Detected
Ethyl Benzene	0.60	Not Detected
m,p-Xylene	0.50	Not Detected
o-Xylene	0.50	Not Detected
Styrene	0.50	Not Detected
1,1,2,2-Tetrachloroethane	0.50	Not Detected
1,3,5-Trimethylbenzene	0.50	Not Detected
1,2,4-Trimethylbenzene	0.60	Not Detected
1,3-Dichlorobenzene	0.50	Not Detected
1,4-Dichlorobenzene	0.50	Not Detected
Chlorotoluene	0.50	Not Detected
1,2-Dichlorobenzene	0.50	Not Detected
1,2,4-Trichlorobenzene	0.50	Not Detected
Hexachlorobutadiene	0.60	Not Detected
Propylene	2.0	Not Detected
1,3-Butadiene	2.0	Not Detected
Acetone	2.0	Not Detected
Carbon Disulfide	2.0	Not Detected
2-Propenal	2.0	Not Detected
trans-1,2-Dichloroethene	2.0	Not Detected
Vinyl Acetate	2.0	Not Detected

AIR TOXICS LTD.

SAMPLE NAME : Lab Blank

ID#: 9706254-01A

EPA METHOD TO-14 GC/MS Full Scan



Compound	Det. Limit (ppbv)	Amount (ppbv)
Chloroprene	2.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	2.0	Not Detected
Hexane	2.0	Not Detected
Tetrahydrofuran	2.0	Not Detected
Cyclohexane	2.0	Not Detected
1,4-Dioxane	2.0	Not Detected
Bromodichloromethane	2.0	Not Detected
4-Methyl-2-pentanone	2.0	Not Detected
2-Hexanone	2.0	Not Detected
Dibromochloromethane	2.0	Not Detected
Bromoform	2.0	Not Detected
4-Ethyltoluene	2.0	Not Detected
Ethanol	2.0	Not Detected
Methyl tert-Butyl Ether	2.0	Not Detected
Heptane	2.0	Not Detected

Container Type: NA

Surrogates	% Recovery	Method Limits
Octafluorotoluene	107	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	94	70-130