



City of Rochester

File



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Department of
Environmental Services

Office of the Commissioner
Division of Environmental Quality
30 Church Street, Rm 300B1
Rochester, New York 14614-1278
Tel#: (716) 428-6011

September 2, 1998

Todd M. Caffoe, P.E.
Environmental Engineer II - Division Environmental Remediation
New York State Department of Environmental Conservation
6274 East Avon-Lima Road
Avon, New York 14414-9519

Re: Quarterly Monitoring Report - Court Street Garage Soil Vapor Extraction System
Rochester, New York

Dear Mr. Caffoe:

Enclosed is the soil vapor extraction system (SVES) air monitoring and sampling data for the quarterly sampling at the above-referenced property (Site). Marcor Remediation, Inc. (Marcor) measured SVES vacuum and vapor effluent concentrations for each individual cell (i.e., loop), as well as the entire SVES.

In accordance with the approved SVES Operation and Maintenance Plan, one air sample of the SVES air effluent was collected on May, 1998. This sample was analyzed for volatile organic compounds (VOCs) via NIOSH method T-014. According to the analytical results, a total of 19 VOCs were detected, including a maximum of 390 ug/m³ of tetrachloroethene (i.e., perchloroethylene or PCE). Table 2A summarizes the concentration of each VOC detected, and also presents the calculated annual emission rate, and the calculated maximum annual and maximum short-term impact for each VOC detected. As illustrated in Table 2A, each VOC was detected at a concentration below its respective Air Guide-1 Short-term Guidance Concentration (SGC) and Annual Guidance Concentration (AGC). The enclosed graph illustrates the concentration of PCE and total VOCs detected since start-up. As the graph illustrates, the concentration of contaminants detected in the air samples continues to vary.

Quarterly monitoring and sampling will continue at this Site. If you have any questions or comments regarding this data package, please call me at 428-6649.

Sincerely,
Division of Environmental Quality

Joseph J. Biondolillo
Joseph J. Biondolillo
Environmental Specialist

c: Mark Gregor, City of Rochester (w/o enclosures)
Joseph Albert, NYS DOH
Dave Napier, NY SDOH

jb259

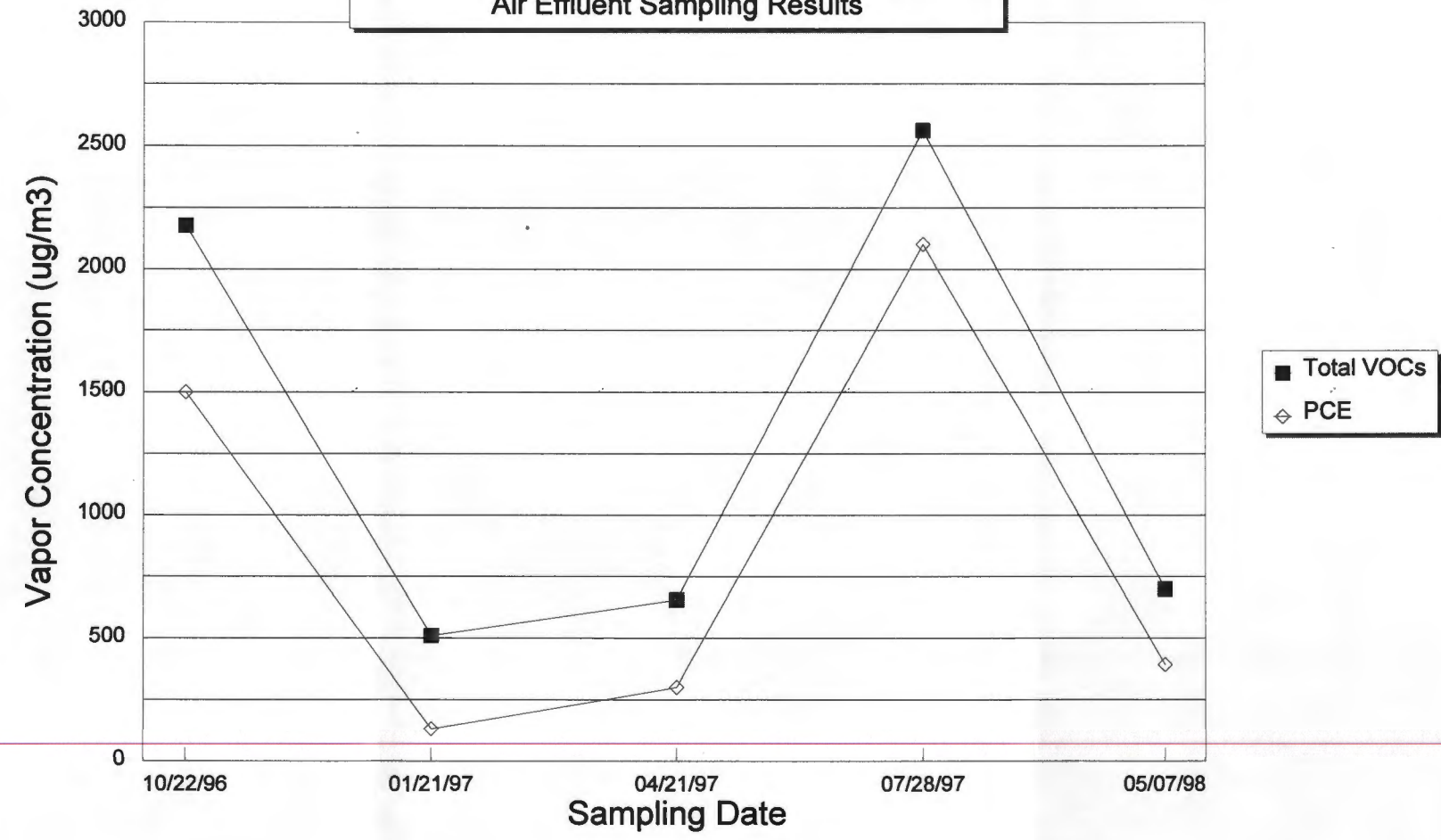
EEO Employer/Handicapped



TABLE 2a, Court Street Garage Soil Vent System 94 Air Guide-1 Permit Comparisons										
Today's Date:										
09/02/98										
Sample Date:										
05/07/97										
Sampled by:										
Marcor Remediation, Inc.										
Detected	Effluent Air Concentration	Air Flow	Emissions	Annual Emissions	Stack Height	Max. Act. Annual	Max. Pot. Annual	Max. Short-Term	AGC	SGC
Contaminant	mg/m3	cfm	lb/hr	lb/yr	(ft)	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3
Acetone	0.0017	75	4.7756E-07	4.1834E-03	81.78	1.25E-06	1.25E-06	8.10E-05	1.40E+04	1.40E+05
Benzene	0.0007	75	1.9664E-07	1.7226E-03	81.78	5.14E-07	5.13E-07	3.34E-05	1.20E-01	3.00E+01
2-Butanone (MEK)	0.0015	75	4.2138E-07	3.6913E-03	81.78	1.10E-06	1.10E-06	7.15E-05	3.00E+02	1.40E+05
Carbon Disulfide	0.0023	75	6.4611E-07	5.6599E-03	81.78	1.69E-06	1.69E-06	1.10E-04	7.00E+00	7.10E+02
Carbon Tetrachloride	0.180	75	5.0565E-05	4.4295E-01	81.78	1.32E-04	1.32E-04	8.58E-03	7.00E-02	1.30E+03
Chloroform	0.011	75	3.0901E-06	2.7069E-02	81.78	8.08E-06	8.07E-06	5.24E-04	2.30E+01	9.80E+02
cis-1,2-Dichloroethene	0.025	75	7.0230E-06	6.1521E-02	81.78	1.84E-05	1.83E-05	1.19E-03	1.90E+03	1.90E+05
Ethylbenzene	0.0056	75	1.5731E-06	1.3781E-02	81.78	4.11E-06	4.11E-06	2.67E-04	1.00E+03	1.00E+05
Methylene Chloride	0.0014	75	3.9329E-07	3.4452E-03	81.78	1.03E-06	1.03E-06	6.67E-05	2.70E+01	4.10E+04
Methyl tert-Butyl Ether (MTBE)	0.00081	75	2.2754E-07	1.9933E-03	81.78	5.95E-07	5.94E-07	3.86E-05	4.00E+00	See Note #1
Naphthalene	0.0063	75	1.7698E-06	1.5503E-02	81.78	4.63E-06	4.62E-06	3.00E-04	1.20E+02	1.20E+04
Tetrachloroethene	0.390	75	1.0956E-04	9.5973E-01	81.78	2.86E-04	2.86E-04	1.86E-02	7.50E-02	8.10E+04
Toluene	0.003	75	8.4276E-07	7.3825E-03	81.78	2.20E-06	2.20E-06	1.43E-04	2.00E+03	8.90E+04
Trichlorotrifluoroethane	0.00086	75	2.4159E-07	2.1163E-03	81.78	6.31E-07	6.31E-07	4.10E-05	9.00E+04	1.80E+06
Trichlorofluoromethane	0.0022	75	6.1802E-07	5.4139E-03	81.78	1.62E-06	1.61E-06	1.05E-04	7.00E+02	5.60E+05
Trichloroethene	0.015	75	4.2138E-06	3.6913E-02	81.78	1.10E-05	1.10E-05	7.15E-04	4.50E-01	3.30E+04
1,1,1-Trichloroethane	0.0018	75	5.0565E-07	4.4295E-03	81.78	1.32E-06	1.32E-06	8.58E-05	1.00E+03	4.50E+05
m,p-Xylene	0.027	75	7.5848E-06	6.6443E-02	81.78	1.98E-05	1.98E-05	1.29E-03	3.00E+02	1.00E+05
o-Xylene	0.023	75	6.4611E-06	5.6599E-02	81.78	1.69E-05	1.69E-05	1.10E-03	7.00E+02	1.00E+05

Note #1: Air Guide-1 does not list a SGC for MTBE. MTBE does not have a established TWA or PEL.

Court Street Garage SVE System
Air Effluent Sampling Results





MARCOR Remediation, Inc.
52 Marway Circle
Rochester, New York 14624

716-247-6955
716-247-6852 (FAX)
800-388-5933

June 18, 1998

Mr. Joseph Biondolillo, Environmental Specialist
City of Rochester Department of Environmental Services
Division of Environmental Quality
30 Church Street, Room 300B
Rochester, New York 14614-1278

RE: Court Street Garage SVE System O/M Services
MARCOR Job Number RO-00950-034

Dear Mr. Biondolillo:

Please find the following a summary of work recently completed by MARCOR at the above referenced site. A copy of the SVE System flow optimization chart and laboratory results is enclosed for your review.

05/07/98 The site and system were inspected. The system was running upon arrival. The system has been rewired so the control panel is in "auto" mode and the panel indicator lights are properly lit. Approximately six (6) gallons of water was present in the knockout. No VOC concentrations were recorded from the drained water. The system vacuum, effluent and air flow levels were recorded and the system was maximized. The system effluent was sampled and analyzed by Paradigm Environmental Services, Inc. (ELAP ID Number 11221) by Method T-014.

The next Quarterly sampling event will be scheduled for August, 1998.

Please feel free to contact me at (716) 247-6955 ext. 4212 with any further questions or concerns.

Sincerely,
MARCOR Remediation, Inc.

Jane MH Forbes
Project Manager

Enclosure
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16 Walker Way
Albany, NY 12205
518-456-5909

402 Vulcan Street
Buffalo, NY 14207
716-447-0700

52 Marway Circle
Rochester, NY 14624
716-247-6955

13 Dwight Park Drive
Syracuse, NY 13209
315-451-6046

SVE Operation and Maintenance Log
 City of Rochester - Court St. Garage
 Marcor Job Number RO-00950-034

Date: 5-7-98

- Vacuum (inches of water) @ blower: 3.5" 10.0"
- Vacuum (inches of water) @ Moisture Separator: 3.5"
- Volume of water drained from Moisture Separator: 6 gals
- Effluent VOC Concentration (ppm): 0.0 ppm
- Moisture Separator VOC Concentration: 0.0 ppm

Notes: System Running upon arrival - system has been rewired so that control panel is in Auto mode and indicator lights are properly lit for their corresponding condition
All cells except C, sucked in water when isolated

Condition	Vacuum @ Blower	Vacuum @ Separator	Vacuum @ Cell A	Vacuum @ Cell B	Vacuum @ Cell C	Vacuum @ Cell D	Effluent	% Open
As Was	10.0"	3.5"	/	/	/	/	0.0	/
Cell A Only	/	1.2-10"	X	X	X	X	3.0	100
Cell B Only	/	1.4-10"					32.0	↓
Cell C Only	/	0.5"					25.0	↓
Cell D Only	/	1.2-5"					2.0	↓
Maximized	6.7"	0.4"					7.5	/

PARADIGM
Environmental
Services, Inc.

179 Lake Avenue Rochester, New York 14608 716-647-2530 FAX 716-647-3311

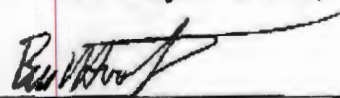
Client: Marcor Remediation
Client Job Site: Court Street
 Rochester, New York
Client Job No.: RO-00950-034
Field Location: Effluent
Field ID No.: N/A

Lab Project No.: 98-0732
Lab Sample No.: 3289
Sample Type: Summa Canister
Date Sampled: 5/7/98
Date Received: 5/7/98

Compound	Result ug/m3	Reporting Limit ug/m3	Result ppb	Reporting Limit ppb
Chloromethane	ND	1.0	ND	0.49
Vinyl Chloride	ND	1.0	ND	0.39
Chloroethane	ND	1.0	ND	0.38
Bromomethane	ND	1.0	ND	0.26
Acetone	1.7	1.0	0.70	0.42
Trichlorofluoromethane	2.2	1.0	0.39	0.18
1,1-Dichloroethene	ND	1.0	ND	0.25
Methylene Chloride	1.4	1.0	0.42	0.29
Carbon Disulfide	2.3	1.0	0.73	0.32
Trichlorotrifluoroethane	0.86 TR	1.0	0.11 TR	0.13
trans-1,2-Dichloroethene	ND	1.0	ND	0.25
cis-1,2-Dichloroethene	25	1.0	6.3	0.25
1,1-Dichloroethane	ND	1.0	ND	0.25
Methyl tert-Butyl Ether	0.81 TR	1.0	0.22 TR	0.28
Vinyl Acetate	ND	1.0	ND	0.28
2-Butanone	1.5	1.0	0.50	0.34
Chloroform	11	1.0	2.3	0.21
1,2-Dichloroethane	ND	1.0	ND	0.25
1,1,1-Trichloroethane	1.8	1.0	0.34	0.19
Benzene	0.70 TR	1.0	0.22 TR	0.31
Carbon Tetrachloride	180	1.0	28	0.16
1,2-Dichloropropane	ND	1.0	ND	0.22
Bromodichloromethane	ND	1.0	ND	0.15
Trichloroethene	15	1.0	2.9	0.19
cis-1,3-Dichloropropene	ND	1.0	ND	0.22
4-Methyl-2-pentanone	ND	1.0	ND	0.24

ELAP ID No.:11221

Comments: TR = Detected Below Indicated Reporting Limit
 ND = Not Detected
 Date Analyzed 5/16/98;5/20/98

Approved By: 
 Laboratory Director

File ID: 98-07323289

