



City of Rochester

*File
Court St / Bosch & Lomb
non-Registry*

FAX (716) 428-6010
TDD/Voice 232-3260

Department of
Environmental Services

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

June 23, 1997

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



Re: Quarterly Monitoring Report #3
Court Street Garage Soil Vapor Extraction System
Rochester, New York

Dear Mr. Caffoe:

Enclosed are the soil vapor (venting) extraction system (SVES) air monitoring data and sampling results for the quarterly sampling at the above-referenced site. Marcor Environmental 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 by Marcor on April 21, 1997. This sample was analyzed for volatile organic compounds (VOCs) via NIOSH method T-014. According to the analytical results, seven (7) VOCs were detected, and tetrachloroethene (i.e., perchloroethylene or PCE) was detected at the highest concentration (300 ug/m³). Table 1A 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 1A, each VOC was detected at a concentration below its respective Air Guide-1 Short-term Guidance Concentration (SGC) and Annual Guidance Concentration (AGC). Based on the analytical results, treatment of the SVES air effluent is not required at this time. The enclosed graph illustrates the general decline in VOC and PCE concentrations since the first sampling event in October 1996.

It should be noted that the SVES may be temporarily shut-down in July to perform some maintenance on the electrical controls. If you have any questions or comments regarding this data package, please call me at 428-6649.

Sincerely,
Division of Environmental Quality

Joe Biondolillo
Joseph J. Biondolillo
Environmental Specialist

c: Mark Gregor, City of Rochester (w/o enclosures)
Joseph Albert, MCDOH
Dave Napier, NYSDOH

jb102

EEO Employer/Handicapped



Table 1A. Court Street Garage SVE System 94 Air Guide -1 Permit Comparisons AIRGD94

Today's Date:

06/23/97

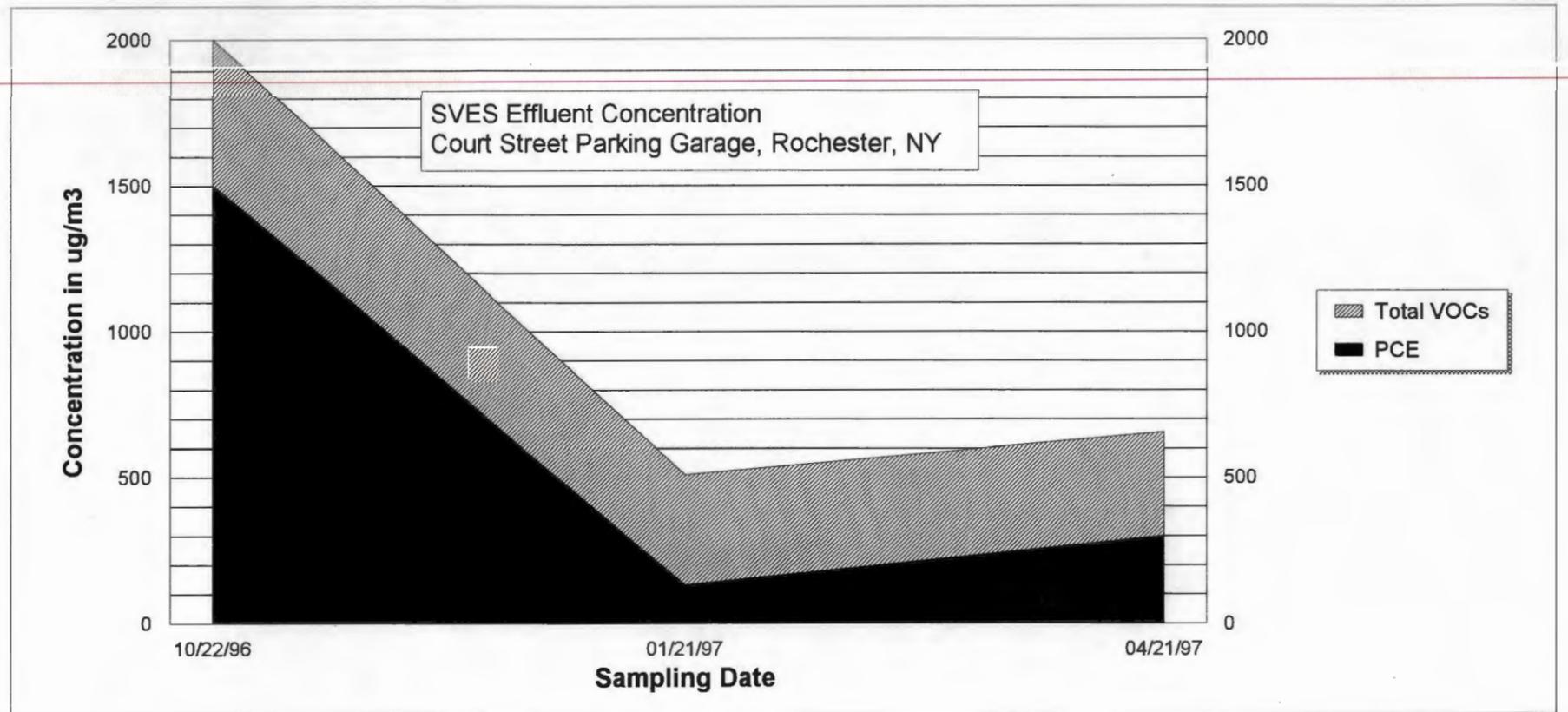
Sample Date:

04/21/97

Sampled by:

Marcor

Detected Contaminant	Effluent Air Concentration mg/m ³	Air Flow cfm	Emissions lb/hr	Annual Emissions lb/yr	Stack Height (ft)	Max. Act. Annual Impact Ca ug/m ³	Max.Pot. Annual Impact Cp ug/m ³	Max. Short-Term Impact Cst ug/m ³	AGC ug/m ³	SGC ug/m ³
Carbon Tetrachloride	0.14	40	2.0975E-05	1.8374E-01	81.78	5.48E-05	5.48E-05	3.56E-03	7.00E-02	1.30E+03
Chloroform	0.012	40	1.7979E-06	1.5749E-02	81.78	4.70E-06	4.69E-06	3.05E-04	2.30E+01	9.80E+02
cis-1,2-Dichloroethene	0.14	40	2.0975E-05	1.8374E-01	81.78	5.48E-05	5.48E-05	3.56E-03	1.90E+03	1.90E+05
Tetrachloroethene	0.300	40	4.4947E-05	3.9374E-01	81.78	1.17E-04	1.17E-04	7.63E-03	7.50E-02	8.10E+04
Trichloroethene	0.027	40	4.0452E-06	3.5436E-02	81.78	1.06E-05	1.06E-05	6.86E-04	4.50E-01	3.30E+04
m,p-Xylene	0.017	40	2.5470E-06	2.2312E-02	81.78	6.66E-06	6.65E-06	4.32E-04	3.00E+03	1.00E+05
o-Xylene	0.018	40	2.6968E-06	2.3624E-02	81.78	7.05E-06	7.04E-06	4.58E-04	7.00E+02	1.00E+05





MARCOR Environmental Remediation, Inc.

52 Marway Circle
Rochester, NY 14624

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

May 22, 1997

Mr. Joseph Biondolillo, Environmental Specialist
City of Rochester
Department of Environmental Services
Office of the Commissioner
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 completed by MARCOR at the above referenced site on April 21, 1997.

MARCOR currently conducts site inspections on a quarterly basis to inspect and maximize the system operation and to record vacuum, effluent and air flow levels. System air effluent samples are also taken on a quarterly basis and analyzed by Paradigm Environmental Services, Inc. (ELAP ID# 11221) for T-014 analysis.

04/21/97 Inspected site and system. Recorded system vacuum, moisture separator vacuum and effluent levels. Checked and drained moisture separator of water (~20gals.). Screened water surface for VOC's. Maximized system. Quarterly sampled system effluent.

Laboratory analysis results indicate a general decrease in contaminant with the exceptions of Carbon Tetrachloride and Tetrachloroethene. These results confirm last quarter's decrease as genuine. A complete copy of laboratory results is included in this report.

Please feel free to contact me at (716) 247-6955 ext. 212 with any further questions or concerns.

Sincerely,
MARCOR Environmental Remediation, Inc.

Jane MH Forbes
Project Manager

125 Wolf Road
Albany, NY 12205
518-482-8499

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: 4-21-97 Doug Stamp / Steve Stockmaster

- Vacuum (inches of water) @ blower: 7"
- Vacuum (inches of water) @ Moisture Separator: 1.5"
- Volume of water drained from Moisture Separator: 20 gals
- Effluent VOC Concentration (ppm): 12 ppm
- Moisture Separator VOC Concentration: 0.0 ppm

Notes: Water knockout full but didn't shut off blower
Sucked in lots of water again from cells A+B
Need to check out electrical controls to see if
they work properly

Condition	Vacuum @ Blower	Vacuum @ Separator	Vacuum @ Cell A	Vacuum @ Cell B	Vacuum @ Cell C	Vacuum @ Cell D	Effluent	% Open
As Was	7" 7"	1.5"	—	—	—	—	12	—
Cell A Only	7.5-10"	1.5" 1.5"	1-5"	—	—	—	10	100
Cell B Only	7.8-10"	—	—	1-4"	—	—	16	100
Cell C Only	7.2"	—	—	—	0.13"	—	9	100
Cell D Only	7.8"	—	—	—	—	1.0"	9	100
Maximized	7.2"	1.5" 1.5-1.0	—	—	—	—	14	—

**PARADIGM
Environmental
Services, Inc.**

RO 00950-034

3

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

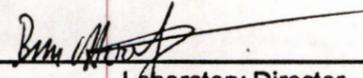
Client: Marcor Remediation
Client Job Site: Court Street
Rochester, New York
Client Job No.: RO-00950-034
Field Location: VES Effluent
Field ID No.: N/A

Lab Project No.: GE6632
Lab Sample No.: 17608
Sample Type: Summa Canister
Date Sampled: 4/21/97
Date Received: 4/21/97

Compound	Result ug/m3	Reporting Limit ug/m3	Result ppb	Reporting Limit ppb
Chloromethane	ND	10.0	ND	4.90
Vinyl Chloride	ND	10.0	ND	3.90
Chloroethane	ND	10.0	ND	3.80
Bromomethane	ND	10.0	ND	2.60
Acetone	ND	10.0	ND	4.20
Trichlorofluoromethane	ND	10.0	ND	2.90
1,1-Dichloroethene	ND	10.0	ND	2.50
Methylene Chloride	ND	10.0	ND	2.90
Carbon Disulfide	ND	10.0	ND	3.20
Trichlorotrifluoroethane	ND	10.0	ND	1.30
trans-1,2-Dichloroethene	ND	10.0	ND	2.50
cis-1,2-Dichloroethene	140	10.0	35.00	2.50
1,1-Dichloroethane	ND	10.0	ND	2.50
Methyl tert-Butyl Ether	ND	10.0	ND	2.80
Vinyl Acetate	ND	10.0	ND	2.80
2-Butanone	ND	10.0	ND	3.40
Chloroform	12	10.0	2.4	2.10
1,2-Dichloroethane	ND	10.0	ND	2.50
1,1,1-Trichloroethane	ND	10.0	ND	1.90
Benzene	ND	10.0	ND	3.10
Carbon Tetrachloride	140.0	10.0	22	1.60
1,2-Dichloropropane	ND	10.0	ND	2.20
Bromodichloromethane	ND	10.0	ND	1.50
Trichloroethene	27	10.0	5	1.90
cis-1.3-Dichloropropene	ND	10.0	ND	2.20
4-Methyl-2-pentanone	ND	10.0	ND	2.40

ELAP ID No.:11221

Comments: TR = Detected Below Indicated Reporting Limit
ND = Not Detected

Approved By: 
Laboratory Director

File ID: GE6632T2.XLS

**PARADIGM
Environmental
Services, Inc.**

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

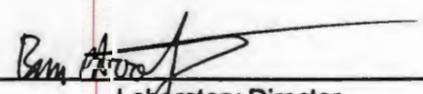
Client: Marcor Remediation
Client Job Site: Court Street
Rochester, New York
Client Job No.: RO-00950-034
Field Location: VES Effluent
Field ID No.: N/A

Lab Project No.: GE6632
Lab Sample No.: 17608
Sample Type: Summa Canister
Date Sampled: 4/21/97
Date Received: 4/21/97

Compound	Result ug/m3	Reporting Limit ug/m3	Result ppb	Reporting Limit ppb
trans-1,3-Dichlorpropene	ND	10.0	ND	2.2
1,1,2-Trichloroethane	ND	10.0	ND	1.9
Toluene	ND	10.0	ND	27
Dibromochloromethane	ND	10.0	ND	13
2-Hexanone	ND	10.0	ND	20
1,2-Dibromoethane	ND	10.0	ND	1.3
Tetrachloroethene	300	10.0	45	1.5
Chlorobenzene	ND	10.0	ND	2.2
Ethylbenzene	ND	10.0	ND	2.8
Bromoform	ND	10.0	ND	1
Styrene	ND	10.0	ND	2.4
m-&p-Xylenes	17.00	10.0	3.9	2.3
o-Xylene	18	10.0	4.1	2.3
1,1,2,2-Tetrachloroethane	ND	10.0	ND	1.5
1,3-Dichlorobenzene	ND	10.0	ND	1.7
1,4-Dichlorobenzene	ND	10.0	ND	1.7
1,2-Dichlorobenzene	ND	10.0	ND	1.7
Napthalene	ND	10.0	ND	1.9

ELAP ID No.:11221

Comments: TR = Detected Below Indicated Reporting Limit
ND = Not Detected

Approved By: 
Laboratory Director

File ID: GE6632T2.XLS



526032

Performance Analytical Inc.
Air Quality Laboratory

20954 Osborne Street
Canoga Park, California 91304
Phone 818 709-1139
Fax 818 709-2915

Chain of Custody Record Analytical Services Request

Client/Project Name Marcos Environmental		Address/Phone (716) 247-6955		ANALYSES				PAI Project No.
Project Location 911 Building / Court St. Garage		Client Project No. R000889001 R000950034		10-14				
Contact Doug Stamp	Sampler (Signature) <i>Doug Stamp</i>		P.O. No.					
Sample Identification No.	Date	Time	Lab Sample No.	Type of Sample			Expected Turnaround Time	Remarks
911 Building EFF	4-21-97	12:07	17607	Air	✓		Standard	
Court St. Garage	4-21-97	1520	17608	↓	✓		↓	
Relinquished by: (Signature) <i>Doug Stamp</i>		Date 4-21-97	Time 1537	Received by: (Signature) <i>[Signature]</i>		Date 4/21/97	Time 15137	
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	
Disposal Method				White Copy : Accompanies Samples				
Disposed by: (Signature)		Date	Time	Yellow Copy : Sampler				