



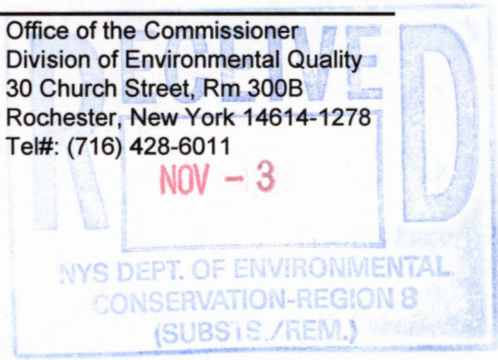
City of Rochester

File

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



November 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 August 26, 1998. This sample was analyzed for volatile organic compounds (VOCs) via NIOSH method T-014. According to the analytical results, a total of twenty VOCs were detected, with a maximum of 1,100 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

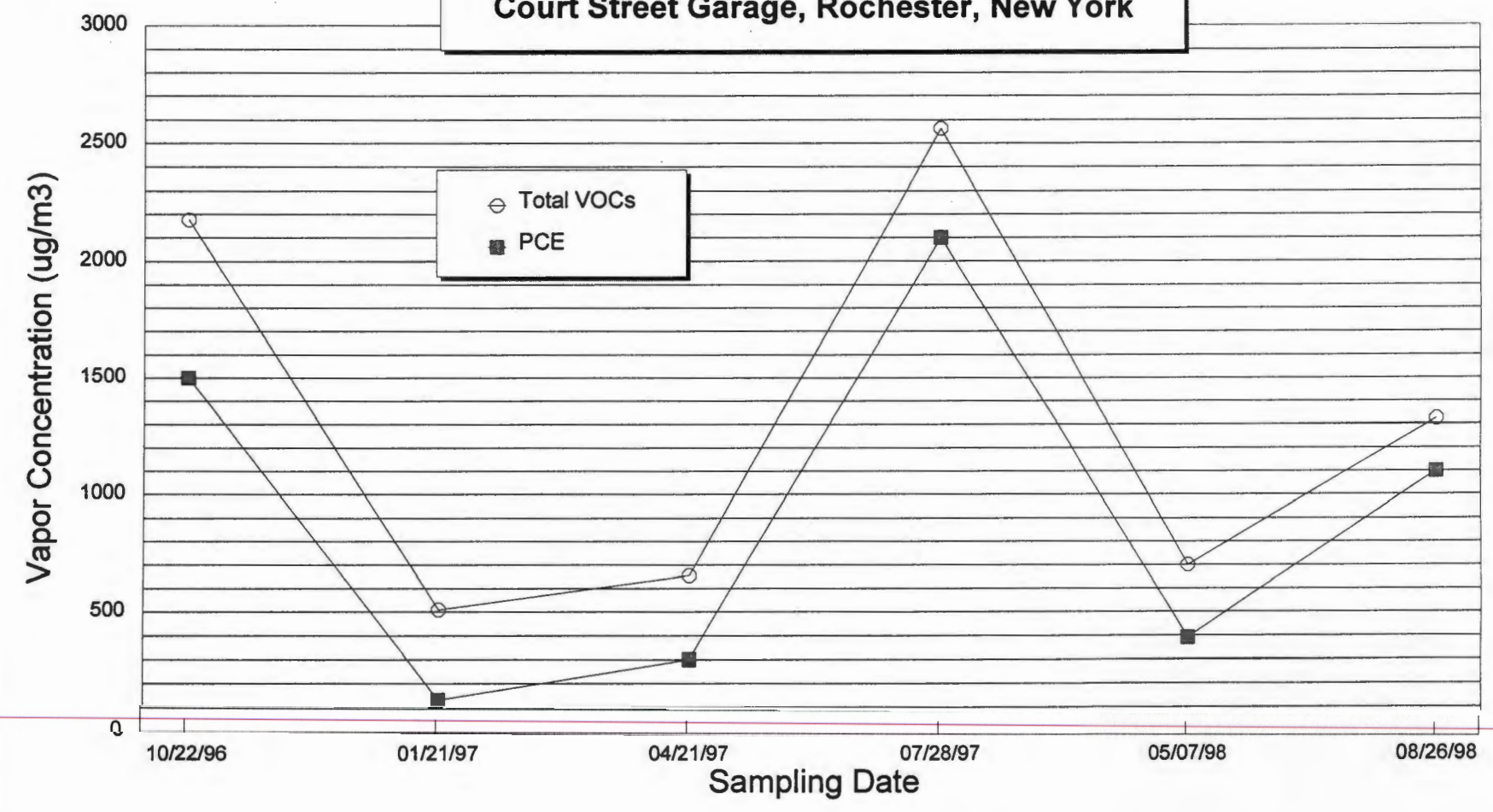
c: Mark Gregor, City of Rochester (w/o enclosures)
Joseph Albert, MCDOH
Dave Napier, NY'SDOH

jb268

EEO Employer/Handicapped



SVES Effluent Sampling Results Court Street Garage, Rochester, New York





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

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

October 13, 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.

08/26/98 The site and system were inspected. The system was running upon arrival. No water was present in the knockout. The system vacuum, effluent and air flow levels were recorded and the system was maximized. Groundwater was vacuumed into the knockout during the isolation of cells A and B. The system was adjusted and the water was drained from the knockout. No measurable vapor concentrations were recorded from the drained water. 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 November, 1998. Please feel free to contact me at (716) 247-6955 ext. 42.12 with any further questions or concerns.

Sincerely,
MARCOR Remediation, Inc.

Jane MH Forbes
Project Manager

Enclosure
F:\USERS\CLERICAL\ANEJO B\98-JOBS\RO00950\950034\UPDATE2.WPD

16 Walker Way
Albany, NY 12205
518-456-5919

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

(4)

Date: 8-26-98

- Vacuum (inches of water) @ blower: 7.2"
- Vacuum (inches of water) @ Moisture Separator: 0.35
- Volume of water drained from Moisture Separator: NA
- Effluent VOC Concentration (ppm): 8.0
- Moisture Separator VOC Concentration: NA

Notes: System ROA

Sucked water when cell A & B were isolated

Cyndi Lambert / Doug Stamp

Condition	Vacuum @ Blower	Vacuum @ Separator	Vacuum @ Cell A	Vacuum @ Cell B	Vacuum @ Cell C	Vacuum @ Cell D	Effluent	% Open
As Was	7.2'	0.35					8ppm	/
Cell A Only	8.3-10	1.4-5+					8ppm	50
Cell B Only	8-14 8.3-10	4.4-5+					36 8ppm	100
Cell C Only	8	0.4					4	25
Cell D Only	0	1.1					23	100
Maximized	8	0.5					18	/

**PARADIGM
Environmental
Services, Inc.**

RO-00950-034

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

Client: Marcor Remediation
Client Job Site: COR - Court St. Garage
Rochester, New York
Client Job No.: R000950034
Field Location: VES Effluent
Field ID No.: SE8-0589

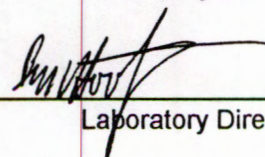
Lab Project No.: 98-1547
Lab Sample No.: 5699
Sample Type: Summa Canister
Date Sampled: 8/26/98
Date Received: 8/26/98

Compound	Result ug/m3	Reporting Limit ug/m3	Result ppb	Reporting Limit ppb
Chloromethane	ND	1.0	ND	0.49
Vinyl Chloride	1.1	1.0	0.43	0.39
Chloroethane	ND	1.0	ND	0.38
Bromomethane	ND	1.0	ND	0.26
Acetone	6.1	1.0	2.6	0.42
Trichlorofluoromethane	2.9	1.0	0.52	0.18
1,1-Dichloroethene	ND	1.0	ND	0.25
Methylene Chloride	2.0	1.0	0.58	0.29
Carbon Disulfide	4.3	1.0	1.4	0.32
Trichlorotrifluoroethane	1.3	1.0	0.17	0.13
trans-1,2-Dichloroethene	2.0	1.0	0.50	0.25
cis-1,2-Dichloroethene	64	1.0	16	0.25
1,1-Dichloroethane	ND	1.0	ND	0.25
Methyl tert-Butyl Ether	ND	1.0	ND	0.28
Vinyl Acetate	ND	1.0	ND	0.28
2-Butanone	3.3	1.0	1.1	0.34
Chloroform	12	1.0	2.5	0.21
1,2-Dichloroethane	ND	1.0	ND	0.25
1,1,1-Trichloroethane	6.1	1.0	1.1	0.19
Benzene	0.67 TR	1.0	0.21TR	0.31
Carbon Tetrachloride	38	1.0	6.2	0.16
1,2-Dichloropropane	ND	1.0	ND	0.22
Bromodichloromethane	ND	1.0	ND	0.15
Trichloroethene	38	1.0	7.1	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: 9/11/98;9/12/98

Approved By: _____



Laboratory Director

File ID: TO1498-1547

**PARADIGM
Environmental
Services, Inc.**

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

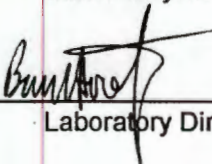
Client: Marcor Remediation
Client Job Site: COR - Court St. Garage
Rochester, New York
Client Job No.: R000950034
Field Location: VES Effluent
Field ID No.: SE8-0589

Lab Project No.: 98-1547
Lab Sample No.: 5699
Sample Type: Summa Canister
Date Sampled: 8/26/98
Date Received: 8/26/98

Compound	Result ug/m3	Reporting Limit ug/m3	Result ppb	Reporting Limit ppb
trans-1,3-Dichlorpropene	ND	1.0	ND	0.22
1,1,2-Trichloroethane	ND	1.0	ND	0.19
Toluene	4.2	1.0	1.1	0.27
Dibromochloromethane	ND	1.0	ND	0.12
2-Hexanone	ND	1.0	ND	0.24
1,2-Dibromoethane	ND	1.0	ND	0.13
Tetrachloroethene	1,100	1.0	160	0.15
Chlorobenzene	ND	1.0	ND	0.22
Ethylbenzene	2.5	1.0	0.58	0.23
Bromoform	ND	1.0	ND	0.10
Styrene	ND	1.0	ND	0.24
m-&p-Xylenes	14	1.0	3.3	0.23
o-Xylene	20	1.0	4.6	0.23
1,1,2,2-Tetrachloroethane	ND	1.0	ND	0.15
1,3-Dichlorobenzene	ND	1.0	ND	0.17
1,4-Dichlorobenzene	ND	1.0	ND	0.17
1,2-Dichlorobenzene	ND	1.0	ND	0.17
Naphthalene	1.7	1.0	0.32	0.19

ELAP ID No.:11221

Comments: TR = Detected Below Indicated Reporting Limit
ND = Not Detected
Date Analyzed: 9/11/98;9/12/98

Approved By: 
Laboratory Director

File ID: TO1498-1547

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

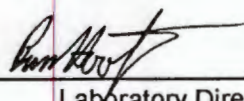
Client: Marcor Remediation
Client Job Site: COR - Court St. Garage
Rochester, New York
Client Job No.: R000950034
Field Location: VES Effluent
Field ID No.: SE8-0589

Lab Project No.: 98-1547
Lab Sample No.: Method Blank
Sample Type: Summa Canister
Date Sampled: 8/26/98
Date Received: 8/26/98

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	ND	1.0	ND	0.42
Trichlorofluoromethane	ND	1.0	ND	0.18
1,1-Dichloroethene	ND	1.0	ND	0.25
Methylene Chloride	ND	1.0	ND	0.29
Carbon Disulfide	ND	1.0	ND	0.32
Trichlorotrifluoroethane	ND	1.0	ND	0.13
trans-1,2-Dichloroethene	ND	1.0	ND	0.25
cis-1,2-Dichloroethene	ND	1.0	ND	0.25
1,1-Dichloroethane	ND	1.0	ND	0.25
Methyl tert-Butyl Ether	ND	1.0	ND	0.28
Vinyl Acetate	ND	1.0	ND	0.28
2-Butanone	ND	1.0	ND	0.34
Chloroform	ND	1.0	ND	0.21
1,2-Dichloroethane	ND	1.0	ND	0.25
1,1,1-Trichloroethane	ND	1.0	ND	0.19
Benzene	ND	1.0	ND	0.31
Carbon Tetrachloride	ND	1.0	ND	0.16
1,2-Dichloropropane	ND	1.0	ND	0.22
Bromodichloromethane	ND	1.0	ND	0.15
Trichloroethene	ND	1.0	ND	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: 9/10/98

Approved By: 
Laboratory Director

File ID: TO1498-1547BLK

**PARADIGM
Environmental
Services, Inc.**

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

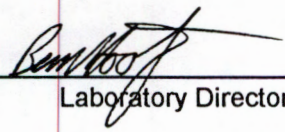
Client: **Marcor Remediation**
 Client Job Site: COR - Court St. Garage
 Rochester, New York
 Client Job No.: R000950034
 Field Location: VES Effluent
 Field ID No.: SE8-0589

Lab Project No.: 98-1547
 Lab Sample No.: Method Blank
 Sample Type: Summa Canister
 Date Sampled: 8/26/98
 Date Received: 8/26/98

Compound	Result ug/m3	Reporting Limit ug/m3	Result ppb	Reporting Limit ppb
trans-1,3-Dichlorpropene	ND	1.0	ND	0.22
1,1,2-Trichloroethane	ND	1.0	ND	0.19
Toluene	ND	1.0	ND	0.27
Dibromochloromethane	ND	1.0	ND	0.12
2-Hexanone	ND	1.0	ND	0.24
1,2-Dibromoethane	ND	1.0	ND	0.13
Tetrachloroethene	ND	1.0	ND	0.15
Chlorobenzene	ND	1.0	ND	0.22
Ethylbenzene	ND	1.0	ND	0.23
Bromoform	ND	1.0	ND	0.10
Styrene	ND	1.0	ND	0.24
m-&p-Xylenes	ND	1.0	ND	0.23
o-Xylene	ND	1.0	ND	0.23
1,1,2,2-Tetrachloroethane	ND	1.0	ND	0.15
1,3-Dichlorobenzene	ND	1.0	ND	0.17
1,4-Dichlorobenzene	ND	1.0	ND	0.17
1,2-Dichlorobenzene	ND	1.0	ND	0.17
Naphthalene	ND	1.0	ND	0.19

ELAP ID No.:11221

Comments: TR = Detected Below Indicated Reporting Limit
 ND = Not Detected
 Date Analyzed: 9/10/98

Approved By: 
 Laboratory Director

File ID: TO1498-1547BLK

MARCOR

CHAIN OF CUSTODY

LABORATORY NAME: Paradigm
ANALYSIS DUE DATE: Standard

CLIENT		PROJECT NAME & NUMBER				NUMBER OF CONTAINERS	TYPE OF ANALYSIS:				DEPTH TO WATER	GROUNDWATER ELEVATION	P.O.#:
City of Rochester		COR - Court St. Garage R000950034					TO-14						
SAMPLE PRESERVE	DATE:	TIME:	COMP.	GRAB	SAMPLE LOCATION:							SAMPLE TYPE, SAMPLE # & COMMENTS.	
None	8-26-98	1335		X	VES effluent SE8-0589	1	X					air, summa canister	

REMARKS: Results to: Ms. Jane Forbes
MARCOR (Rochester)

SAMPLED BY: Doug Stamp / Cyndi Lambert PROJECT MANAGER: JMHF

RELINQUISHED BY:	1 <u>Doug Stamp</u> SIGN 8-26-98 1400 DATE TIME		2 _____ SIGN DATE TIME		3 _____ SIGN DATE TIME		4 _____ SIGN DATE TIME	
	1 <u>[Signature]</u> SIGN 8-26-98 1400 DATE TIME		2 _____ SIGN DATE TIME		3 _____ SIGN DATE TIME		4 _____ SIGN DATE TIME	

METHOD OF SHIPMENT: Hand delivered

RECEIVED AT LABORATORY BY: [Signature] [Signature]
SIGN SIGN

[Signature] 1420
DATE TIME