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October 26, 2004

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081-12152-01

Mr. Jeffrey Crawford
Rhode Island Department of Environmental Management
Office of Waste Management
235 Promenade Street
Providence, RI 02908-5767

Subject: Additional Soil Gas Monitoring at Springfield Street School Complex, 50
Springfield Street, Providence, RI - October 2004

Dear Mr. Crawford:

Per our recommendation in the last Quarterly report, LFR Levine Fricke conducted monitoring of methane, carbon dioxide, and oxygen in the soil gas monitoring wells at the Springfield Street School Site on a monthly basis since the August quarterly monitoring event. The results of monitoring for the last three months are presented in the attached table. We have also updated the trend graphs for selected wells which were provided before, and these are also attached.

Methane was not detected in samples from any of the soil gas monitoring wells during this round of monitoring. Carbon dioxide concentrations in soil gas did not exceed the action levels at any of the soil gas monitoring points during this round of monitoring. Oxygen concentrations were generally equivalent to ambient air oxygen concentrations.

As stated previously, we believe that the elevated concentrations of carbon dioxide detected at the Site in August and September were a result of activity by naturally occurring bacteria in the soil of the Site. We attributed the rise in carbon dioxide concentrations in August and September to increased soil bacteria activity during the warmer months. As temperatures started to decrease in October, bacterial activity declined, and carbon dioxide concentrations also declined.

MR. JEFFERY CRAWFORD

Rhode Island Department Environmental Management

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Based on the latest results, which did not exceed any action levels, we will discontinue the monthly soil gas monitoring. Soil gas will be monitored again during the next quarterly sampling round. Please call me if you have questions.

Sincerely,

A handwritten signature in cursive script that reads "Donna Holden Pallister".

Donna Holden Pallister, P.E.
Senior Engineer

A handwritten signature in cursive script that reads "Thomas L. Daley".

Thomas L. Daley
Senior Engineer

Cc: A. Sepe, City of Providence
R. Troiano, PPBA
J. Boffa, Providence School Department

Soil Gas Survey Results Table

Results of Soil Gas Monitoring for August to October, 2004
Springfield Street School Complex
Providence, Rhode Island

Sampling Location	Methane				Carbon Dioxide				Oxygen			
	% by volume				% by volume				% by volume			
	August	September	October	October	August	September	October	October	August	September	October	October
WB-1	0.0	0.0	0.0	0.0	4.0	5.0	0.0	0.0	10.7	14.1	21.1	21.1
WB-2	0.0	0.0	0.0	0.0	0.5	1.0	0.0	0.0	19.6	20.1	21.2	21.2
WB-3	0.0	0.0	0.0	0.0	2.1	0.0	0.0	0.0	16.6	20.9	21.3	21.3
WB-4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20.7	20.8	21.3	21.3
WB-5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20.6	20.6	21.3	21.3
WB-6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20.5	20.6	21.3	21.3
WB-7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20.4	20.6	21.2	21.2
WB-8	0.0	0.0	0.0	0.0	0.4	0.6	0.0	0.0	19.6	20.0	21.2	21.2
WB-12	0.0	0.0	0.0	0.0	1.5	2.4	0.0	0.0	18.2	19.7	21.1	21.1
WB-13	0.0	0.0	0.0	0.0	4.6	5.0	0.0	0.0	13.5	15.7	21.3	21.3
WB-14	0.0	0.0	0.0	0.0	1.2	2.2	0.0	0.0	18.1	19.6	20.9	20.9
WB-15	0.0	0.0	0.0	0.0	2.7	3.3	0.0	0.0	16.3	18.3	21.1	21.1
EPL-1	0.0	0.0	0.0	0.0	0.7	3.2	0.0	0.0	19.7	19.0	21.3	21.3
EPL-2	0.0	0.0	0.0	0.0	1.1	2.3	0.0	0.0	18.1	19.3	21.0	21.0
EPL-3	0.0	0.0	0.0	0.0	6.1	1.6	0.0	0.0	12.7	19.2	21.1	21.1
EPL-4	0.0	0.0	0.0	0.0	6.3	2.1	0.1	0.1	11.4	15.6	20.9	20.9
EPL-5	0.0	0.0	0.0	0.0	8.8	2.2	0.0	0.0	6.8	17.7	21.1	21.1
ENE-1	0.0	0.0	0.0	0.0	1.5	1.1	0.0	0.0	16.5	20.5	20.8	20.8
MG1	0.0	0.0	0.0	0.0	0.9	1.6	0.0	0.0	17.4	17.8	20.9	20.9
MG2	0.0	0.0	0.0	0.0	2.5	0.4	0.0	0.0	16.6	20.9	20.9	20.9
MG3	0.0	0.0	0.0	0.0	2.7	3.1	0.0	0.0	16.0	18.1	20.9	20.9
MG4	0.0	0.0	0.0	0.0	1.9	2.7	0.0	0.0	16.2	17.9	20.8	20.8

Results of Soil Gas Monitoring for August to October, 2004
Springfield Street School Complex
Providence, Rhode Island

Sampling Location	Methane % by volume			Carbon Dioxide % by volume			Oxygen % by volume		
	August	September	October	August	September	October	August	September	October
MG5	0.0	0.0	0.0	3.1	2.6	0.0	12.5	17.1	20.9
MPL2	0.0	0.0	0.0	1.3	0.0	0.0	18.2	21.1	20.9
MPL3	0.0	0.0	0.0	8.6	10.8	0.0	7.2	3.3	20.8
MPL5	0.0	0.0	0.0	10.0	12.2	0.0	6.4	3.7	20.9
MPL6	0.0	0.0	0.0	13.0	13.7	0.0	6.9	3.9	20.7
MPL7	0.0	0.0	0.0	11.9	13.6	0.0	6.9	3.7	20.8
MPL8	0.0	0.0	0.0	7.7	5.8	0.0	10.2	13.1	21.0
RAWP									
Action Levels	0.5			1000 ppm or 0.1%			NA		

Notes:

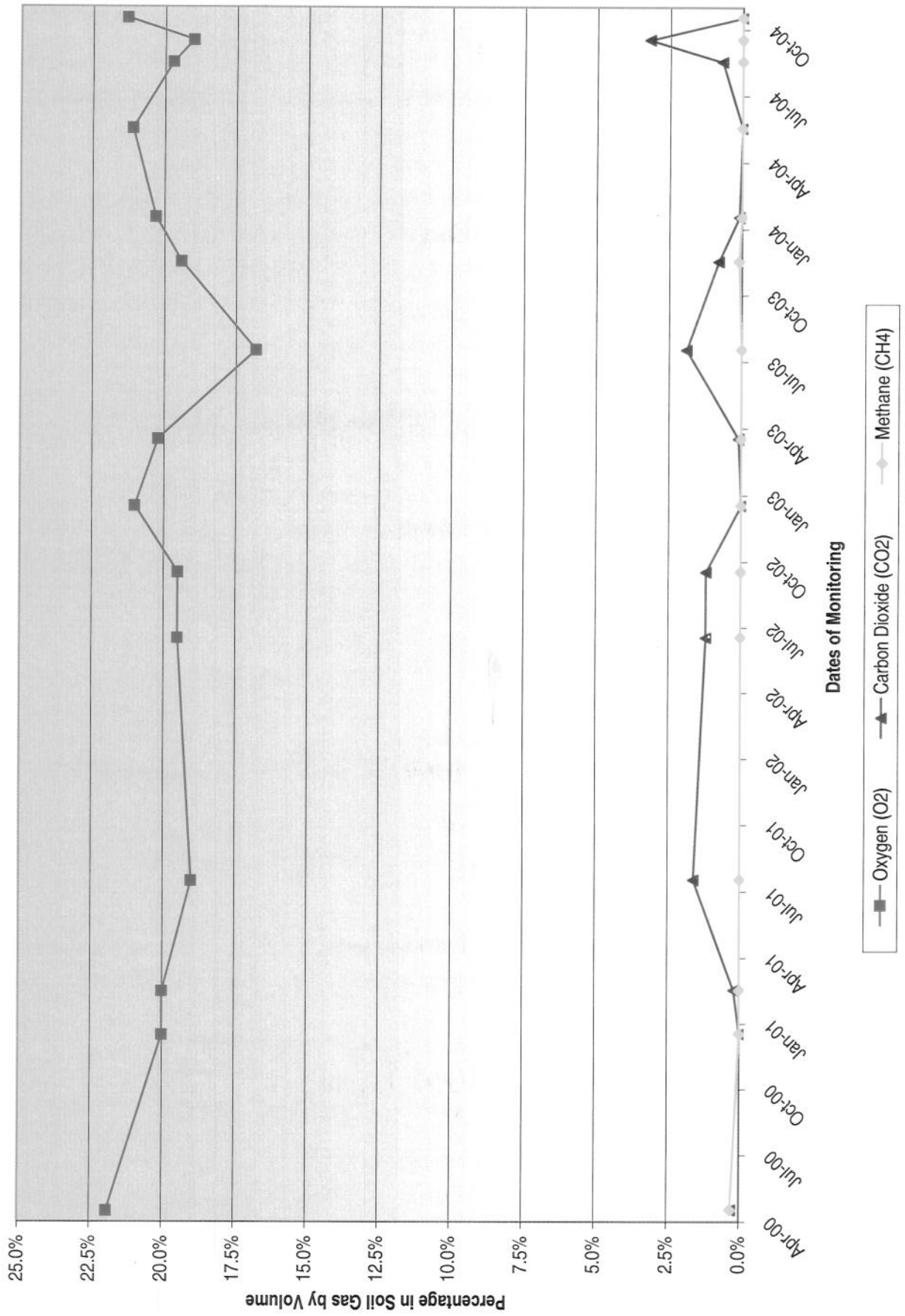
Samples collected August 16 & 17, 2004, September 14 & 15, 2004, and October 18 & 19, 2004.

Sampling Equipment: LandTec GA90

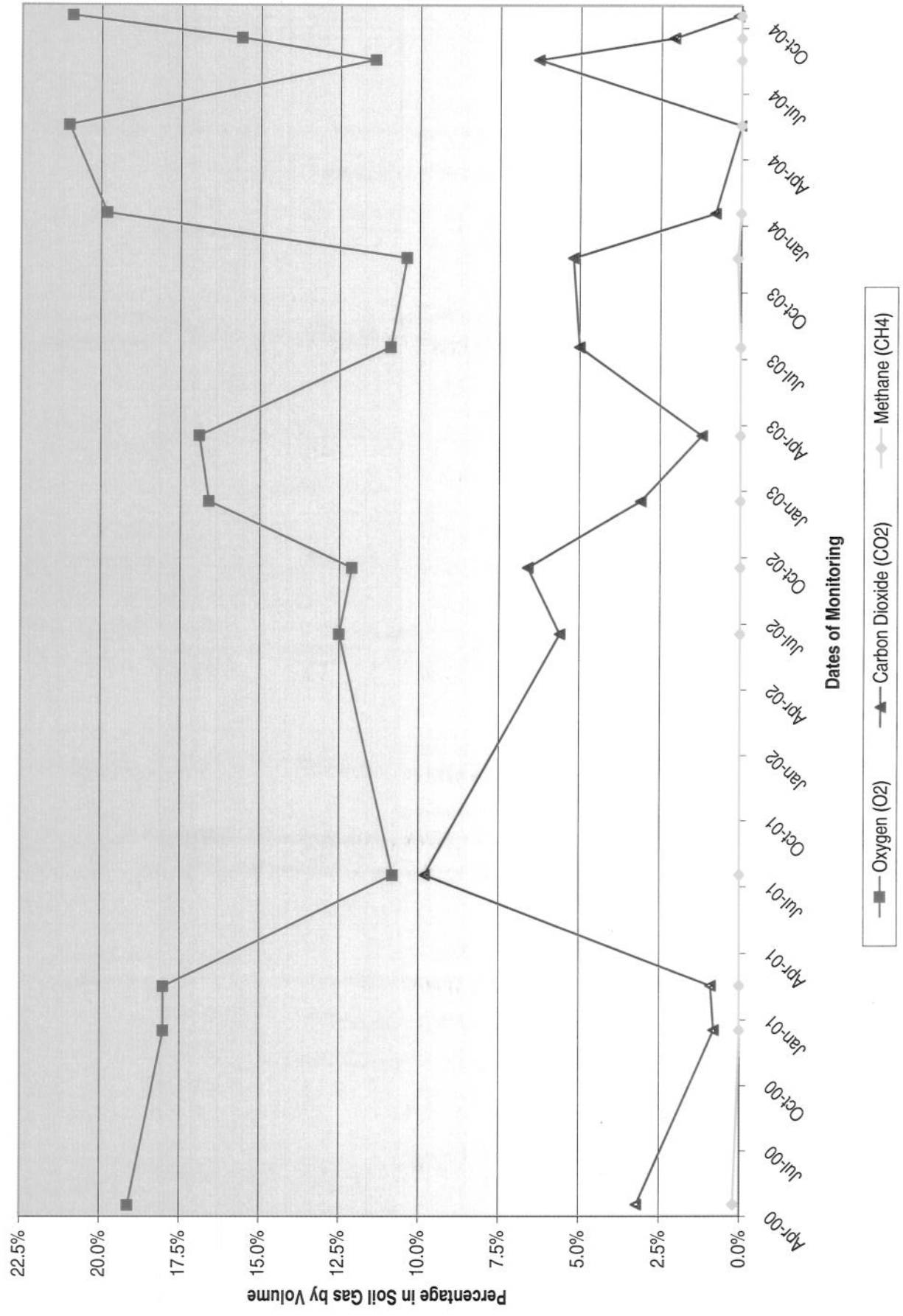
PPM = parts per million

Trend Graphs for Selected Monitoring Points

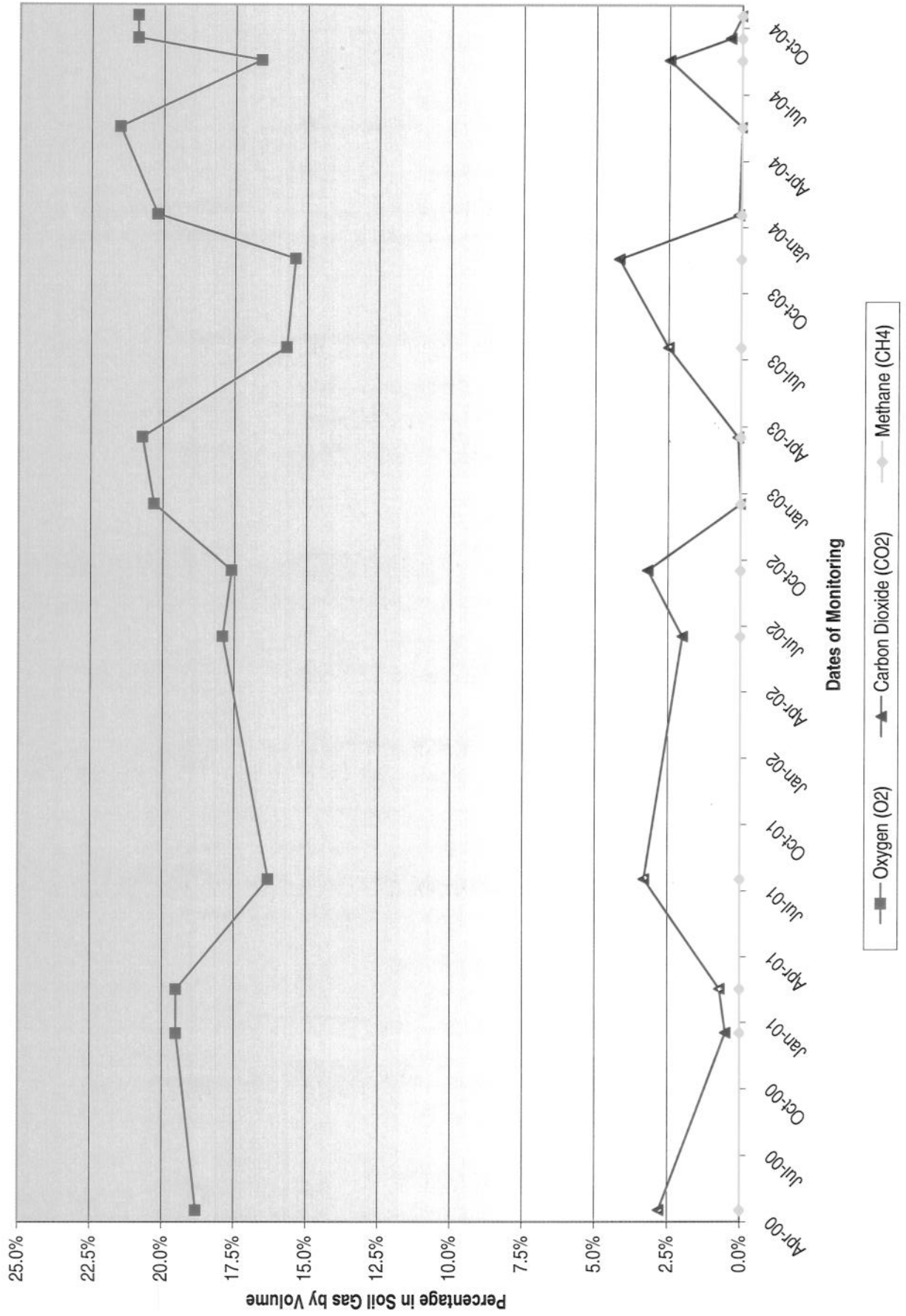
Soil Gas Well EPL1
Fluctuation in Methane, Oxygen, and Carbon Dioxide Percentages over Time
Springfield Street School Complex
Providence, Rhode Island



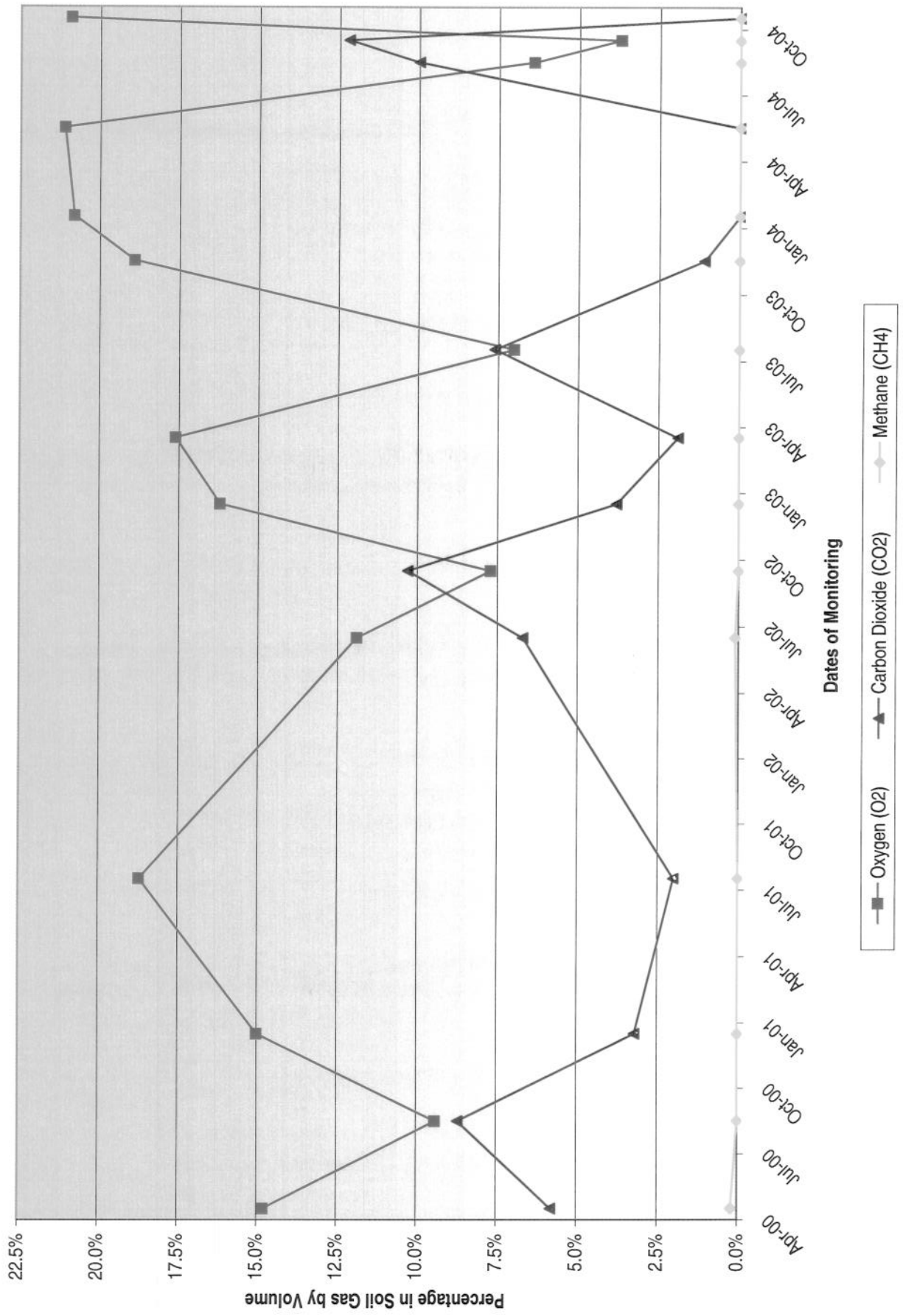
Soil Gas Well EPL4
Fluctuation in Methane, Oxygen, and Carbon Dioxide Percentages over Time
Springfield Street School Complex
Providence, Rhode Island



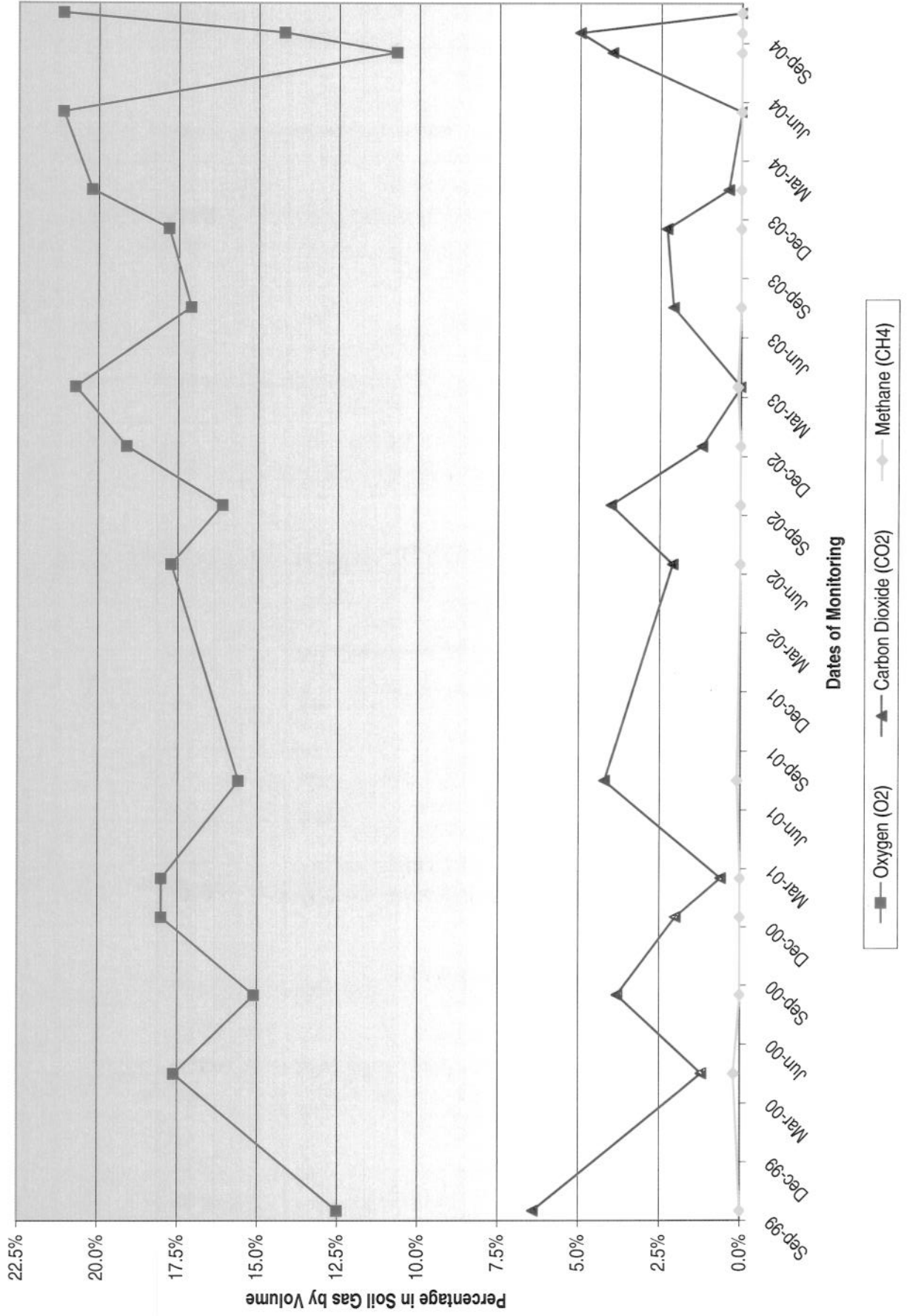
Soil Gas Well MG2
Fluctuation in Methane, Oxygen, and Carbon Dioxide Percentages over Time
Springfield Street School Complex
Providence, Rhode Island



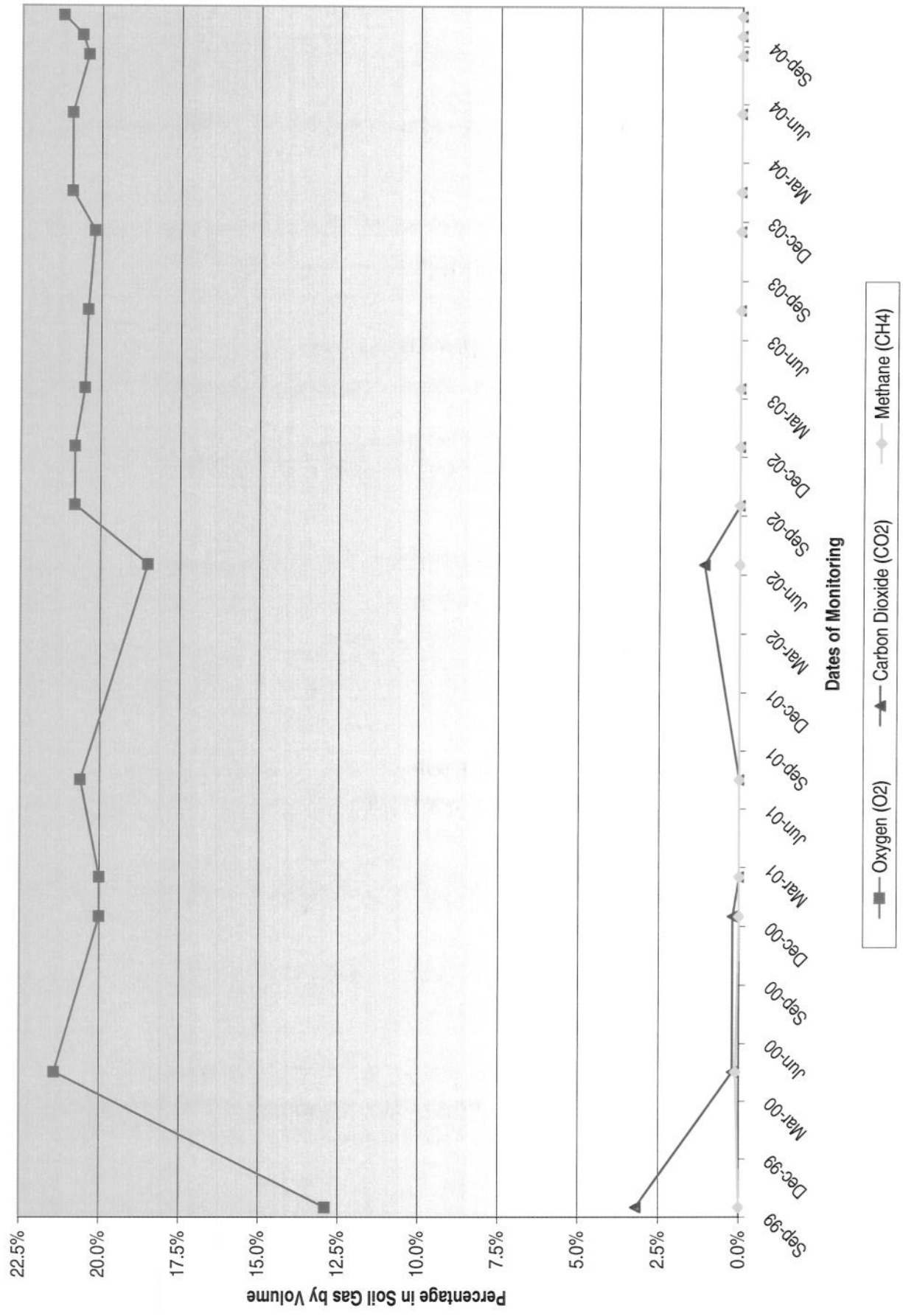
Soil Gas Well MPL5
Fluctuation in Methane, Oxygen, and Carbon Dioxide Percentages over Time
Springfield Street School Complex
Providence, Rhode Island



Soil Gas Well WB1
Fluctuation in Methane, Oxygen, and Carbon Dioxide Percentages over Time
 Springfield Street School Complex
 Providence, Rhode Island



Soil Gas Well WB7
Fluctuation in Methane, Oxygen, and Carbon Dioxide Percentages over Time
Springfield Street School Complex
Providence, Rhode Island



Soil Gas Well WB15
Fluctuation in Methane, Oxygen, and Carbon Dioxide Percentages over Time
Springfield Street School Complex
Providence, Rhode Island

