

**Appendix 7-1**  
**Landfill Gas Monitoring Data obtained at the**  
**southern edge of SENT landfill near the Fill Bank Site**

# Summary of Landfill Gas Field Results

## Gas Probes

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Date	Methane (%)	CO2 (%)	Oxygen (%)	Water Level (m)	Reduced Water Level (mpd)
3/11/2000	0.0	0.2	20.2	3.0	3.6
4/12/2000	0.0	0.0	20.3	3.9	2.8
2/1/2001	0.0	2.9	16.2	3.2	3.4
5/2/2001	0.0	9.2	3.3	3.3	3.4
9/3/2001	0.0	0.2	19.6	4.0	2.6
6/4/2001	0.0	0.1	20.4	3.0	3.7
7/5/2001	0.0	0.1	18.9	3.0	3.7
9/6/2001	0.0	0.1	20.5	3.8	2.8
0/7/2001	0.0	0.2	20.4	4.5	2.1
5/8/2001	0.0	0.0	20.3	3.0	3.7
7/9/2001	0.0	0.0	20.7	3.4	3.3
9/10/2001	0.6	9.8	8.7	3.7	3.0

GP-12

Date	Methane (%)	CO2 (%)	Oxygen (%)	Water Level (m)	Reduced Water Level (mpd)
13/11/2000	0.0	0.5	20.0	3.9	0.8
12/12/2000	0.0	0.3	18.7	3.7	1.0
12/1/2001	0.0	0.2	18.6	3.3	0.8
9/2/2001	0.0	0.0	20.6	3.4	1.2
19/3/2001	0.0	0.1	20.5	No water	4.7
26/4/2001	0.0	0.1	20.6	No water	4.7
24/5/2001	0.0	0.1	20.5	No water	4.7
29/6/2001	0.0	0.0	20.2	No water	4.7
30/7/2001	0.0	0.0	20.4	No water	4.7
23/8/2001	0.0	1.0	20.5	3.2	1.5
27/9/2001	0.0	0.0	20.5	3.0	1.6
29/10/2001	0.0	0.0	20.7	3.5	1.2

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Date	Methane (%)	CO2 (%)	Oxygen (%)	Water Level (m)	Reduced Water Level (mpd)
3/11/2000	0.0	0.7	19.8	4.7	1.7
4/12/2000	0.0	0.6	20.2	4.9	1.5
2/1/2001	0.0	0.1	20.2	4.7	1.7
5/2/2001	0.0	0.0	20.2	4.9	1.6
9/3/2001	0.0	0.3	20.0	4.9	1.5
6/4/2001	0.0	0.6	20.2	4.6	1.8
7/5/2001	0.0	0.5	20.2	4.7	1.7
9/6/2001	0.0	7.0	13.9	3.6	2.8
0/7/2001	0.0	0.0	20.7	4.2	2.2
5/8/2001	0.0	0.0	20.4	4.5	1.9
7/9/2001	0.0	6.1	14.2	4.2	2.2
9/10/2001	0.0	2.9	17.2	4.5	1.9

GP-15

Date	Methane (%)	CO2 (%)	Oxygen (%)	Water Level (m)	Reduced Water Level (mpd)
13/11/2000	0.0	0.0	20.4	4.8	1.7
5/12/2000	0.0	0.0	20.4	5.1	1.4
12/1/2001	0.0	0.0	20.5	4.6	1.9
5/2/2001	0.0	0.0	20.6	4.9	1.5
19/3/2001	0.0	0.0	20.7	4.9	1.5
23/4/2001	0.0	0.0	20.7	4.7	1.7
16/5/2001	0.0	0.0	20.5	4.7	1.7
19/6/2001	0.0	0.0	20.7	4.2	2.2
16/7/2001	0.0	0.0	19.5	3.7	2.7
13/8/2001	0.0	0.0	20.5	4.6	1.9
6/9/2001	0.0	0.0	20.4	3.5	2.9
8/10/2001	0.0	0.0	20.5	3.8	2.7

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Date	Methane (%)	CO2 (%)	Oxygen (%)	Water Level (m)	Reduced Water Level (mpd)
1/11/2000	0.0	0.0	20.5	4.4	1.6
1/12/2000	0.0	0.9	19.7	4.7	1.4
2/1/2001	0.0	0.9	19.5	4.4	1.7
1/2/2001	0.0	0.0	20.7	4.6	1.5
1/3/2001	0.0	0.1	20.3	4.6	1.5
5/4/2001	0.0	6.0	8.4	4.3	1.7
1/5/2001	0.0	6.1	8.0	4.4	1.6
1/6/2001	0.0	0.3	20.3	4.4	1.7
1/7/2001	0.0	15.5	0.4	3.9	2.1
5/8/2001	0.0	0.0	16.9	4.2	1.8
7/9/2001	0.0	8.2	8.1	3.9	2.1
1/10/2001	0.0	6.4	10.0	4.2	1.8

GP-16

Date	Methane (%)	CO2 (%)	Oxygen (%)	Water Level (m)	Reduced Water Level (mpd)
13/11/2000	0.0	0.0	20.5	3.8	1.6
5/12/2000	0.0	0.0	20.4	4.1	1.4
12/1/2001	0.0	0.0	20.6	3.8	1.7
5/2/2001	0.0	0.0	20.6	4.0	1.4
19/3/2001	0.0	0.0	20.6	4.0	1.4
23/4/2001	0.0	0.0	20.7	3.8	1.6
16/5/2001	0.0	0.0	20.5	3.8	1.6
19/6/2001	0.0	0.0	20.6	3.3	2.1
16/7/2001	0.0	0.0	20.7	3.4	2.0
13/8/2001	0.0	0.1	19.9	3.6	1.8
6/9/2001	0.0	0.0	20.6	3.1	2.3
8/10/2001	0.0	0.0	20.7	4.1	1.3

# Summary of Landfill Gas Field Results

## Piezometer:

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Date	Methane (%)	CO2 (%)	Oxygen (%)	Water Level (m)	Reduced Water Level (mpd)
13/11/2000	0.0	6.7	16.2	4.5	1.8
5/12/2000	0.0	2.6	18.6	4.8	1.5
12/1/2001	0.0	2.9	18.1	4.6	1.7
5/2/2001	0.0	4.5	15.8	4.7	1.6
19/3/2001	0.0	5.2	14.9	4.7	1.6
26/4/2001	0.0	5.5	10.9	4.5	1.8
17/5/2001	0.0	3.4	11.2	4.6	1.8
29/6/2001	0.0	5.2	11.4	3.4	2.9
30/7/2001	0.0	0.0	20.7	4.0	2.3
15/8/2001	0.0	0.0	20.3	4.4	1.9
27/9/2001	0.0	2.1	18.5	4.1	2.2
22/10/2001	0.0	4.6	16.2	4.4	1.9

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Date	Methane (%)	CO2 (%)	Oxygen (%)	Water Level (m)	Reduced Water Level (mpd)
13/11/2000	0.0	0.1	20.4	4.1	1.5
5/12/2000	0.0	2.0	18.5	4.4	1.2
12/1/2001	0.0	0.0	20.6	4.0	1.6
5/2/2001	0.0	0.0	20.6	4.2	1.3
19/3/2001	0.0	2.9	16.6	4.1	1.5
26/4/2001	0.0	2.7	14.1	4.5	1.1
17/5/2001	0.0	2.5	13.2	4.5	1.1
29/6/2001	0.0	0.0	20.6	3.0	2.6
30/7/2001	0.0	0.0	20.7	3.6	1.9
15/8/2001	0.0	0.0	19.4	4.3	1.3
27/9/2001	0.0	0.7	18.3	4.0	1.6
24/10/2001	0.0	0.8	19.5	4.9	0.6

P-3

Date	Methane (%)	CO2 (%)	Oxygen (%)	Water Level (m)	Reduced Water Level (mpd)
13/11/2000	0.0	0.0	20.4	4.6	1.6
5/12/2000	0.0	1.5	19.5	4.8	1.4
12/1/2001	0.0	0.0	20.4	4.5	1.7
5/2/2001	0.0	2.8	17.6	4.7	1.5
19/3/2001	0.0	2.5	17.3	4.7	1.5
26/4/2001	0.0	2.6	17.4	4.5	1.7
17/5/2001	0.0	2.4	16.2	4.6	1.6
29/6/2001	0.0	8.7	13.7	3.5	2.6
30/7/2001	0.0	0.0	20.9	4.0	2.2
15/8/2001	0.0	0.0	20.6	4.4	1.8
27/9/2001	0.0	1.3	18.4	4.2	2.0
24/10/2001	0.0	4.2	15.0	4.4	1.8

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Date	Methane (%)	CO2 (%)	Oxygen (%)	Water Level (m)	Reduced Water Level (mpd)
13/11/2000	0.0	0.3	20.1	6.2	2.5
5/12/2000	0.0	0.0	20.3	No water	8.8
12/1/2001	0.0	0.1	20.4	No water	8.8
5/2/2001	0.0	0.0	20.4	No water	8.8
19/3/2001	0.0	0.0	20.5	No water	8.8
26/4/2001	0.0	0.0	20.7	No water	8.8
17/5/2001	0.0	0.0	20.7	No water	8.8
29/6/2001	0.0	0.0	20.4	No water	8.8
30/7/2001	0.0	0.6	19.3	No water	8.8
15/8/2001	0.0	0.3	20.2	No water	8.8
27/9/2001	0.0	0.9	19.4	No water	8.8
24/10/2001	0.0	0.1	20.5	No Water	8.8

P-4

Date	Methane (%)	CO2 (%)	Oxygen (%)	Water Level (m)	Reduced Water Level (mpd)
13/11/2000	0.0	2.1	18.7	4.2	1.7
5/12/2000	0.0	1.5	19.5	4.4	1.4
12/1/2001	0.0	5.6	14.1	4.2	1.7
5/2/2001	0.0	4.6	16.3	4.4	1.5
19/3/2001	0.0	3.5	16.8	4.4	1.5
26/4/2001	0.0	8.9	3.6	4.1	1.7
17/5/2001	0.0	6.5	4.1	4.2	1.7
29/6/2001	0.0	3.5	16.7	3.4	2.4
30/7/2001	0.0	3.8	10.8	3.6	2.2
15/8/2001	0.0	0.0	19.4	4.0	1.8
27/9/2001	0.0	0.3	18.8	4.1	1.8
24/10/2001	0.0	6.8	13.7	3.9	2.0

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Date	Methane (%)	CO2 (%)	Oxygen (%)	Water Level (m)	Reduced Water Level (mpd)
13/11/2000	0.0	0.0	20.4	4.3	1.6
5/12/2000	0.0	0.0	20.5	4.6	1.3
12/1/2001	0.0	0.0	20.7	4.3	1.6
5/2/2001	0.0	0.0	20.6	4.5	1.4
19/3/2001	0.0	0.0	20.6	4.5	1.4
23/4/2001	0.0	0.0	20.7	4.3	1.6
16/5/2001	0.0	0.0	20.6	4.3	1.6
19/6/2001	0.0	0.0	20.7	3.8	2.1
16/7/2001	0.0	0.0	20.6	3.5	2.4
13/8/2001	0.0	0.0	19.7	4.0	2.0
6/9/2001	0.0	0.0	20.5	3.0	2.9
8/10/2001	0.0	0.0	20.5	3.0	2.9

# Summary of Landfill Gas Field Results

## Piezometer

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Date	Methane (%)	CO2 (%)	Oxygen (%)	Water Level (m)	Reduced Water Level (mpd)
13/11/2000	0.0	0.0	20.2	4.0	1.7
5/12/2000	0.0	0.0	20.4	4.3	1.4
12/1/2001	0.0	0.0	20.6	4.0	1.7
5/2/2001	0.0	0.0	20.7	4.2	1.6
19/3/2001	0.0	0.0	20.7	4.1	1.6
23/4/2001	0.0	0.0	20.7	4.0	1.8
16/5/2001	0.0	0.0	20.6	4.0	1.7
19/6/2001	0.0	0.0	20.6	3.4	2.3
16/7/2001	0.0	0.0	20.6	3.0	2.7
13/8/2001	0.0	0.0	19.9	3.8	1.9
6/9/2001	0.0	0.0	20.1	2.7	3.0
8/10/2001	0.0	0.0	20.6	3.7	2.0

P-10

Date	Methane (%)	CO2 (%)	Oxygen (%)	Water Level (m)	Reduced Water Level (mpd)
13/11/2000	0.0	0.0	20.7	3.8	2.6
5/12/2000	0.0	0.0	20.6	5.2	1.2
12/1/2001	0.0	0.0	20.7	4.9	1.6
5/2/2001	0.0	0.0	20.7	5.1	1.4
19/3/2001	0.0	0.0	20.6	5.1	1.4
23/4/2001	0.0	0.0	20.6	4.8	1.6
16/5/2001	0.0	0.0	20.5	4.8	1.7
19/6/2001	0.0	0.0	20.6	4.4	2.1
16/7/2001	0.0	0.0	19.8	4.3	2.1
13/8/2001	0.0	0.0	20.3	4.7	1.7
6/9/2001	0.0	0.0	20.5	3.6	2.8
8/10/2001	0.0	0.0	19.6	4.7	1.7

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Date	Methane (%)	CO2 (%)	Oxygen (%)	Water Level (m)	Reduced Water Level (mpd)
13/11/2000	0.0	0.0	20.6	3.9	1.7
5/12/2000	0.0	0.0	20.6	4.1	1.4
12/1/2001	0.0	0.0	20.7	4.0	1.6
5/2/2001	0.0	0.0	20.7	4.2	1.4
19/3/2001	0.0	0.0	20.7	4.1	1.4
23/4/2001	0.0	0.0	20.7	4.0	1.6
16/5/2001	0.0	0.0	20.4	4.0	1.6
19/6/2001	0.0	0.0	20.7	3.4	2.2
16/7/2001	0.0	0.0	20.1	3.6	2.0
13/8/2001	0.0	0.0	20.3	3.7	1.8
6/9/2001	0.0	0.0	20.4	2.7	2.9
8/10/2001	0.0	0.0	20.3	3.8	1.8