Landfill Gas and Control System Monitoring Town of Huntington East Northport Landfill East Northport, New York April, 2008

Prepared for:

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TABLE OF CONTENTS

	F	Page
Scope of Work Summary of I Gener Monit LFG (Conde Discussion . Metha	Results real Foring Wells Control Wells Ensate Traps Fine Monitoring Data Final And Operating Condition	3
	Figure Following	Page
Figure 1.	Landfill Gas Monitoring and Control System	1
	Summary Tables Following	Page
Table 1.	Landfill Gas Monitoring Well Data	4
Table 2.	Landfill Gas Control Well Data	4
Table 3.	Summary of Methane Detections	4
Table 4.	Landfill Gas Control Well Methane Data	4
	Appendix	
Appendix 1.	Landfill Gas Control Well Vacuum Data	

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Introduction

Presented herein are the results of April, 2008 landfill gas and control system monitoring activities performed at the Town of Huntington East Northport Landfill, as stipulated by the New York State Department of Environmental Conservation.

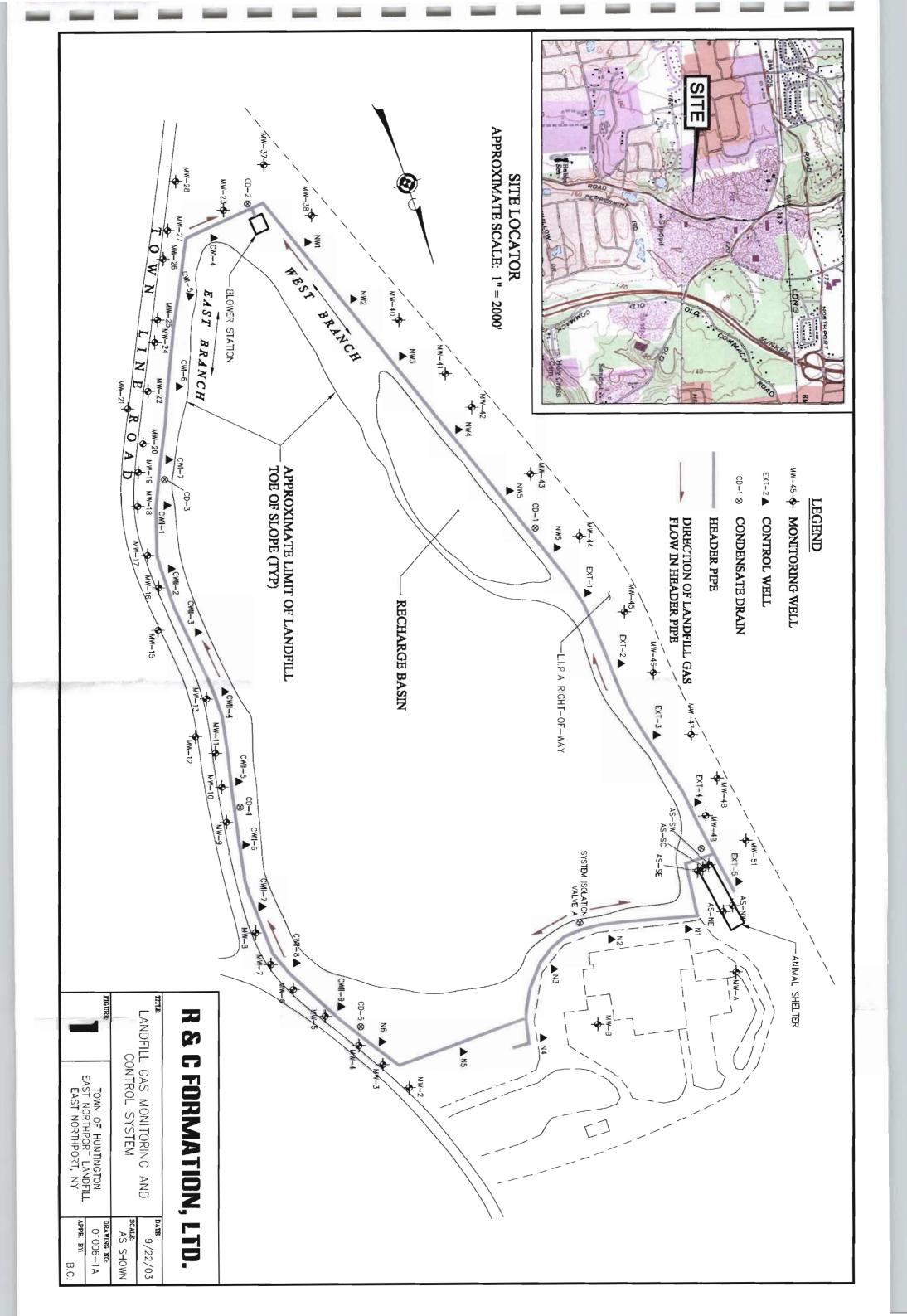
The primary landfill gas migration control system consists of thirty active landfill gas control wells connected - via a single header pipe forming a complete loop around the 44 acre East Northport Landfill - to one blower station. Landfill gas monitoring wells (consisting of 3-4 probes screened from approximately 5-70 feet below grade), situated outside of the aforementioned header pipe, provide a means to verify the control system's efficacy. Separate landfill gas control and monitoring systems are located at adjacent Animal Control and Resource Recovery Facilities.

Figure 1 illustrates the landfill area and significant components of the landfill gas monitoring and control system. The scope-of-work completed (per our agreement with the Town of Huntington Department of Environmental Waste Management dated December 4, 2006) precedes a summary of results. A discussion of methane monitoring data - with an emphasis on trends and occurrence - and the system's physical and operating condition follows.

Scope-of-Work

The scope-of-work includes performance of the following on a monthly basis:

- 1) Monitoring of all probes in 43 landfill monitoring wells and up to 5 probes around the Town Animal Control Facility for methane gas and gas pressure.
- 2) Monitoring of 30 methane control wells and blower station for temperature, flow rate, vacuum, methane and oxygen (balance of the control system to be checked and adjustment to wells and to blower intake made, if necessary).



- 3) Examination of 5 condensate traps in the control system for proper operation and water accumulation.
- 4) Noting of any problems, damage, missing parts etc. at each monitoring well, methane control well, condensate trap, Animal Control Facility probes and blower station.

Summary of Results

General

Reported monthly monitoring activities were performed April 23, 2008. Climatic conditions for the monitoring period are as follows:

Temperature: 59 (°F); Barometric Pressure: 30.18 (in. Hg); Relative Humidity: 67.0%; Precipitation: 0.00 inches; Wind Speed & Direction: 2.0 mph, southwesterly.

Monitoring Wells

A summary of measured and recorded landfill gas monitoring well data is presented on Table 1. As shown on Table 1, methane was not detected throughout the monitoring well network.

LFG Control Wells

A summary of measured and recorded landfill gas control well data - including the system's blower station where 2 "inlet" measuring points (Blower Station 1 & 2) and 1 "outlet" measuring point (Blower Station 3) are located - is presented on Table 2. As shown on Table 2, control well vacuum values (i.e., negative pressure), a direct indicator of the system's balance, range from 0.0 - -3.1 (in. H_20). "Extracted" methane values range from 0.0 - 3.3%.

Condensate Traps

Standing water measured within condensate traps CD-1 (5.7 feet), CD-2 (3.9 feet), CD-3 (8.0 feet), CD-4 (trace) and CD-5 (5.1 feet) was evacuated, as per usual, upon the completion of monitoring activities.

Discussion

Methane Monitoring Data

Table 3 summarizes measured and recorded methane concentrations detected at landfill gas monitoring wells throughout the period-of-record from January, 2006 through April, 2008. As shown on Table 3, methane has been detected sporadically and at low levels at 14 monitoring wells. The most elevated concentration measured throughout the entire landfill gas monitoring well network continues to be 5.0 %; detected at Animal Control Facility monitoring well AS-NE during March, 2001 monitoring activities (see October, 2007 report).

As previously reported, methane has not been detected at primary landfill gas migration control system monitoring wells since a negligible concentration (0.1%) was recorded at monitoring well MW-49 during June, 2002 monitoring activities. The sporadic nature of low-level methane detections indicates that landfill gas control systems in relation to both the Animal Control Facility and East Northport Landfill continue to perform effectively.

A summary of methane concentrations detected at landfill gas control wells during the period-of-record from January, 2006 through April, 2008 is presented on Table 4. As shown on Table 4, reported values are generally consistent throughout the 28 month period.

Physical and Operating Condition

Based upon current and historic landfill gas monitoring data summarized above, the East Northport Landfill's primary landfill gas control system continues to effectively negate the off-site migration of methane. Although vacuum values remain comparatively low at the northern-most portion of the system, this condition has existed throughout the monitoring period-of-record (see Appendix 1).

The physical condition of system monitoring wells and control wells is noted on Table 1 and Table 2, respectively. As shown on Table 2, control well N-6 was once again flooded during monitoring activities (see Recommendations).

Blower station pump # 2 was in operation during April monitoring activities and all control wells continue to be set in the full-open-position. This full-open-position will be maintained for an evaluation period and modified if/as necessary.

R & C Formation, Ltd.

Recommendations

- * In the event that methane is detected at any monitoring well associated with the primary landfill gas migration control system, recommence the monitoring of off and on-site structures.
- * Assess occurrence of methane versus landfill area (i.e., identify dominant landfill gas production zones).
- * Continue assessment of potential impact of all control valves at full-open-position on system-wide vacuum/methane levels.
- * Increase the inspection and, when necessary, pumpage periodicity of standing water within condensate traps CD-1 through CD-5 (e.g., semi-weekly).

Table 1 Landfill Gas Monitoring Well Data Town of Huntington East Northport Landfill, East Northport, New York Measured April 23, 2008

		Droho Drocentro	044133004			Moti	Mothone		
Well No.		(in. H2O)	(20)			0-100% (Volume)	Volume)		Condition
	A	В	С	D	A	В	Э	D	
MW-A	-0.1	-0.1			0.0	0.0	المراجعة الم		
MW-B	-0.1	-0.2			0.0	0.0			
MW-2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
MW-3	0.0	-0.1	-0.1	-0.1	0.0	0.0	0.0	0.0	
MW-4	-0.1	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	
MW-5	-0.1	-0.1	-0.1	\$	0.0	0.0	0.0		
9-WM	.0:0	0.0	0.0		0.0	0.0	0.0		
MW-7	0.0	0.0	0.0	- The state of the	0.0	0.0	0.0		
8-WM	0.0	0.0	0.0		0.0	0.0	0.0		
6-WM	-0.2	0.0	-0.2		0.0	0.0	0.0		
MW-10	-0.1	-0.2	0.0	-0.1	0.0	0.0	0.0	0.0	
MW-11	0.0	-0.1	-0.2	0.0	0.0	0.0	0.0	0.0	
MW-12	0.0	0.0	0.0		0.0	0.0	0.0	,	
MW-13	-0.3	-0.2	0.0		0.0	0.0	0.0		
MW-15	-0.1	-0.1	-0.1		0.0	0.0	0.0		
MW-16	-0.2	0.0	-0.1	3,	0.0	0.0	0.0		
MW-17	0.0	0.0	-0.2		0.0	0.0	0.0		
MW-18	0.0	0.0	-0.1		0.0	0.0	0.0		
MW-19	-0.2	-0.2	-0.2	-0.3	0.0	0.0	0.0	0.0	
MW-20	-0.2	-0.2	-0.2	9.50	0.0	0.0	0.0		
MW-21	-0.2	-0.2	-0.2	-0.2	0.0	0.0	0.0	0.0	
MW-22	-0.2	-0.1	-0.2		0.0	0.0	0.0		

Table 1 (continued)

		Probe P	Probe Pressure			Meti	Methane		
Well No.		(in. H2O)	120)			0-100% (Volume)	(Volume)		Condition
	A	В	၁	D	A	В	Э	D	
MW-23	-0.1	-0.2	-0.2	-0.1	0.0	0.0	0.0	0.0	
MW-24	0.0	-0.1	0.0		0.0	0.0	0.0		
MW-25	-0.3	-0.3	-1.0	+ - (*	0.0	0.0	0.0		
MW-26	-0.1	-0.1	-0.1	-0.1	0.0	0.0	0.0	0.0	
MW-27	0.0	-0.1	-0.1	- ,	0.0	0.0	0.0		
MW-28	0.0	0.0	0.0		0.0	0.0	0.0	,	
MW-37	0.0	0.0	-0.1		0.0	0.0	0.0		
MW-38	-0.1	-0.1	-0.2		0.0	0.0	0.0		
MW-40	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
MW-41	0.0	0.0	0.0	.3	0.0	0.0	0.0	,	
MW-42	0.0	0.0	-0.1		0.0	0.0	0.0		
MW-43	0.0	0.0	0.0		0.0	0.0	0.0	`	
MW-44	0.0	-0.1	0.0		0.0	0.0	0.0		
MW-45	NA	0.0	0.0		NA	0.0	0.0		Riser Damage (Repair Scheduled)
MW-46	0.0	0.0	0.0	NA	0.0	0.0	0.0	NA	Riser Damage (Repair Scheduled)
MW-47	0.0	0.0	0.0		0.0	0.0	0.0		
MW-48	0.0	0.0	0.0		0.0	0.0	0.0		
MW-49	-0.1	0.0	0.0		0.0	0.0	0.0		
MW-51	0.0	-0.1	0.0		0.0	0.0	0.0		
AS-NW	0.0		weeken the		0.0	24		. 32	19.4.107
AS-NE	0.0		2 16 14 18 15 1		0.0	3		. 4	
AS-SW	0.0		* 4		0.0				
AS-SC	0.0		. 37		0.0				
AS-SE	0.0				0.0	,		مين داش	
A - Shallow Probe	equ	B - Middle Probe	eq.	C - Deep Probe	0	D - Deepest Probe	robe		
Shading indica	tes the well is r	Shading indicates the well is not equipped with that particular probe.	th that particula	ır probe.					
NA - Not Available	able								

Table 2
Landfill Gas Control Well Data
Town of Huntington East Northport Landfill, East Northport, New York
Measured April 23, 2008

Well No.	Temp (°F)	Flow Rate (ft3/min)	Vacuum	Methane	Oxygen	Condition
		,	(in. H2O)	0-100 % (Volume)	% in Air	
CWI-4	71.2	1,290.00	-1.8	0.1	19.5	
CWI-5	76.2	104.00	-3.0	0.4	18.4	
CW1-6	T.TT	44.40	-3.1	0.4	18.2	
CWI-7	82.0	34.60	-2.7	1.1	17.5	
CWII-1	86.2	20.80	-2.6	3.3	15.2	
CWII-2	6.98	75.50	-2.6	6.0	16.0	
CWII-3	81.4	14.70	-3.1	1.0	16.5	
CWII-4	78.0	37.90	-2.5	1.5	16.4	
CWII-5	74.9	9.05	-2.8	0.3	17.1	
CWII-6	78.7	32.00	-1.6	0.7	17.0	
CWII-7	69.5	15.10	-1.2	0.0	18.6	
CWII-8	73.9	1.77	0.0	0.0	9.61	
CWII-9	78.0	27.30	6.0-	0.2	17.4	
NW-1	60.1	111.00	-2.7	0.0	20.4	
NW-2	71.2	33.90	-2.9	0.0	20.3	
NW-3	62.1	97.50	-2.7	0.0	20.1	
NW-4	62.0	83.00	-3.1	0.0	20.2	
NW-5	60.5	82.00	-2.2	0:0	20.5	
9-MN	60.5	67.00	-2.1	0.0	20.4	
Ext-1	6.89	9.30	0.0	0.0	20.9	
Ext-2	69.7	39.70	6.0-	0.0	19.0	
Ext-3	74.4	29.20	-2.2	0.0	18.9	
Ext-4	74.2	33.40	-1.9	0.0	18.1	
Ext-5	59.3	70.00	-1.8	0.0	20.1	
N-1	78.1	1.23	-0.2	0.0	20.6	
N-2	78.9	9.85	9.0-	2.8	7.4	
N-3	60.3	5.70	-0.1	0.0	20.0	
N-4	7.07	1.82	-0.1	0.0	6.61	
N-5	71.1	1.57	-0.1	0.0	19.8	
9-N	NA	NA	NA	NA	NA	Flooded
Blower Station - 1	29.7	1,760.00	-4.2	0.3	19.0	
Blower Station - 2	58.6	2,550.00	-9.5	0.3	19.0	
Blower Station - 3	71.4	1,600.00	0.4	0.3	19.0	
MA Met Associable						

NA - Not Available

Landfill Gas Monitoring Wells
Town of Huntington East Northport Landfill, East Northport, New York
for period of record between January, 2006 and April, 2008 Table 3 Summary of Methane Detections

Well	1/06	2/06	3/06	4/06	90/9	90/9	90/2	90/8	90/6	10/06	11/06	12/06	1/07	2/07	3/07	4/07
MW-7C	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MW-8C	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MW-9A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MW-9B	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MW-9C	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MW-11A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MW-12A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MW-12C	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MW-18A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MW-19A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MW-24C	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MW-38B	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MW-39A	0.0	0.0	0.0	0.0	0.0	0.0	NA	NA	AN	NA	NA	NA	AN	NA	NA	NA
MW-49A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MW-49B	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MW-49C	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AS-SW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AS-SC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AS-NE	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0

NA - Not Available

Measured in % Volume

Table 3 (continued)

Well	2/02	20/9	2/07	8/07	20/6	10/07 11/07	11/07	12/07	1/08	2/08	3/08	4/08		
MW-7C	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
MW-8C	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
MW-9A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
MW-9B	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
MW-9C	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
MW-11A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
MW-12A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
MW-12C	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
MW-18A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
MW-19A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		_
MW-24C	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
MW-38B	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
MW-39A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
MW-49A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
MW-49B	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
MW-49C	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
AS-SW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
AS-SC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
AS-NE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
	11-6-15													

NA - Not Available

Measured in % Volume

Town of Huntington East Northport Landfill, East Northport, New York for period of record between January, 2006 and April, 2008 Landfill Gas Control Well Methane Data Table 4

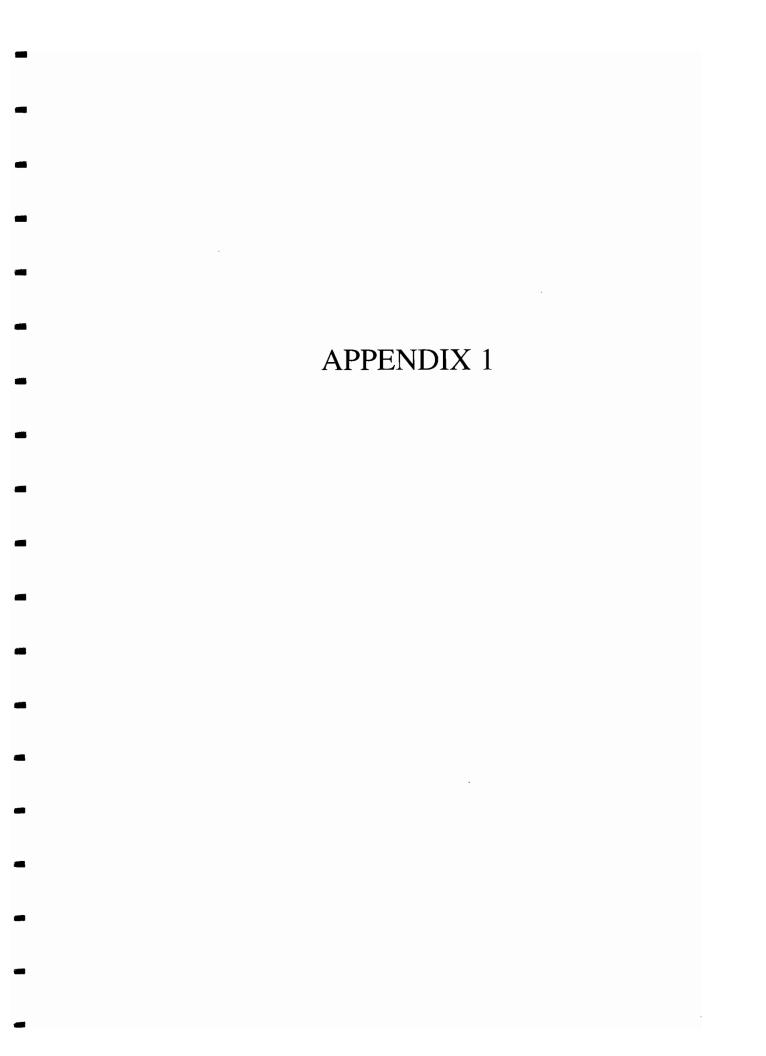
7 4/07	0.1	0.7	8.0		2.0																										
	.1 0.0	.1 0.0	_	0.0	-																										
0.1 0.1		0.7 2.1	0.0 9.0	_	1.1 NA																										
0.1		0.7	9.0	1.5		4.0	4.0	4.0	4.0 1.6 0.7 2.8															1.6 0.7 0.7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	1.6 0.7 2.8 2.8 0.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0	4.0 1.6 0.7 2.8 2.8 2.8 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	1.6 1.6 0.7 2.8 2.8 2.8 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	4.0 1.6 0.7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	4.0 1.6 0.7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	4.0 1.6 0.7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	1.6 1.6 1.6 1.6 1.7 1.4 1.4 1.4 1.4 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
0.2 0.1	+		0.0	0.2 2.2	0.3 4.0		3.0 1.6																								
0.0				0.0 0.0	0.0 0.0	0.0		0.0 0.0				<u> </u>																			
			0.0	0.0	7.0	2.2		1.7																							
0.3 0.1	1.5 0.2	2::	0.9 0.2	0.7 0.6	2.4 2.6	1.9 1.0		C.I C.I																							
0.1	0.8	2.5																													
0.2	1.5	:	0.4	5.0	2.7	3.4	6.0	1.0	0:1	0.5	0.5	0.5	0.5	0.0 0.0 0.0 0.0	0.5 0.8 0.0 0.0 0.0 0.7	0.5 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.5 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.5 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.5 0.8 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.5 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.5 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.5 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.5 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.5 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.5 0.8 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
0.4	2.0	7.7	0.1	0.9	0.9	4.2	2.1	3.8		4.2	4.2	4.2 0.7 3.4	4.2 0.7 3.4 0.0	4.2 0.7 3.4 0.0	4.2 0.7 3.4 0.0 0.0 1.0	4.2 0.7 0.0 0.0 0.0 1.0	4.2 0.7 0.0 0.0 0.0 0.0 0.0 0.0	4.2 0.7 0.0 0.0 0.0 0.0 0.0 0.0 0.0	4.2 0.7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	4.2 0.7 0.0 0.0 0.0 0.0 0.0 0.0 0.0	4.2 0.7 0.0 0.0 0.0 0.0 0.0 0.0 0.0	4.2 0.7 0.0 0.0 0.0 0.0 0.0 0.0 0.0	4.2 0.7 0.0 0.0 0.0 0.0 0.0 0.0 0.0	4.2 0.7 0.0 0.0 0.0 0.0 0.0 0.0 0.0	4.2 0.7 0.0	4.2 0.7 0.0	4.2 0.7 0.0 </td <td>4.2 0.7 0.0</td> <td>4.2 0.7 0.0</td> <td>4.2 0.7 0.7 0.0</td> <td>4.2 0.7 0.7 0.0</td>	4.2 0.7 0.0	4.2 0.7 0.0	4.2 0.7 0.7 0.0	4.2 0.7 0.7 0.0
0.3	1 8	2.1	0.3	5.0	5.0	4.5	2.3	4.0	-	0.1	3.5	3.5	3.5	3.5	1.0 9.1 0.0 0.0 0.0	3.5 0.1 0.0 0.0 0.0 0.0 0.0	3.5 3.5 0.1 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.1 0.1 0.1 0.0 0.0 0.0 0.0 0.0	0.1 0.1 0.1 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	1.0 0.1 1.1 1.1 1.1 1.1 0.0 0.0	1.0 0.1 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	1.0 0.1 0.0 0.0 0.0 0.0 0.0 0.0	1.0 0.1 0.0 0.0 0.0 0.0 0.0 0.0
0.0		0.0	0.1	0.7	0.4	0.2	0.2	0.2	00	2.5	0.0	0.0	0.0	0.0	0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
	CWI-4	CWI-5	CWI-6	CWI-7	CWII-1	CWII-2	CWII-3	CWII-4	CWII-5	::)	CWII-6	CWII-6 CWII-7	CWII-8 CWII-8	CWII-6 CWII-7 CWII-8 CWII-9	CWII-6 CWII-7 CWII-9 CWII-9 NW-1	CWII-6 CWII-8 CWII-9 NW-1	CWII-6 CWII-7 CWII-9 NW-1 NW-2 NW-3	CWII-6 CWII-8 CWII-9 NW-1 NW-2 NW-3 NW-3	CWII-6 CWII-8 CWII-9 NW-1 NW-2 NW-3 NW-3 NW-4	CWII-6 CWII-8 CWII-9 NW-1 NW-2 NW-3 NW-4 NW-5 NW-5	CWII-6 CWII-7 CWII-9 NW-1 NW-2 NW-3 NW-3 NW-4 NW-4 NW-6 Ext-1	CWII-6 CWII-7 CWII-9 NW-1 NW-2 NW-3 NW-4 NW-4 NW-5 NW-5 Ext-1 Ext-2	CWII-6 CWII-7 CWII-9 CWII-9 NW-1 NW-2 NW-3 NW-3 NW-4 NW-5 Ext-1 Ext-1 Ext-2	CWII-6 CWII-8 CWII-9 NW-1 NW-2 NW-2 NW-3 NW-4 NW-4 NW-5 NW-5 Ext-1 Ext-1 Ext-1 Ext-2	CWII-6 CWII-8 CWII-9 NW-1 NW-2 NW-3 NW-3 NW-4 NW-4 NW-5 Ext-1 Ext-1 Ext-2 Ext-2 Ext-5	CWII-6 CWII-8 CWII-9 NW-1 NW-2 NW-3 NW-3 NW-4 NW-4 NW-5 Ext-1 Ext-1 Ext-3 Ext-3 Ext-3 Ext-3 NM-6	CWII-6 CWII-9 CWII-9 NW-1 NW-2 NW-3 NW-3 NW-4 NW-4 NW-5 Ext-1 Ext-1 Ext-2 Ext-2 Ext-3 Ext-4 Ext-4 Ext-4 Ext-4 Ext-4 Ext-7 NN-1 NN-1 NN-6 NN-6 NN-6 NN-6 NN-6 NN-6	CWII-6 CWII-8 CWII-9 NW-1 NW-2 NW-3 NW-5 NW-5 NW-6 Ext-1 Ext-1 Ext-2 Ext-2 Ext-2 Ext-3 Ext-4 Ext-5 N-1 N-1 N-1 N-1 N-1 N-1 N-1 N-1 N-1 N-1	CWII-6 CWII-8 CWII-9 NW-1 NW-2 NW-3 NW-4 NW-5 NW-6 Ext-1 Ext-2 Ext-2 Ext-3 Ext-3 Ext-3 Ext-3 Ext-3 Ext-3 Ext-3 NM-4 NW-6 NW-6 NW-6 NW-6 NW-6 NW-7 NW-6 NW-7 NW-6 NW-7 NW-6 NW-7 NW-6 NW-7 NW-6 NW-7 NW-6 NW-7 NW-6 NW-7 NW-6 NW-7 NW-6 NW-7 NW-6 NW-7 NW-6 NW-7 NW-6 NW-6 NW-6 NW-6 NW-6 NW-6 NW-6 NW-6	CWII-6 CWII-7 CWII-9 CWII-9 NW-1 NW-2 NW-2 NW-3 NW-5 NW-6 Ext-1 Ext-2 Ext-2 Ext-2 Ext-2 Ext-3 Ext-3 Ext-4 Ext-2 Ext-3 Ext-4 Ext-2 NN-1 NN-1 NN-1 NN-6 NN-6 NN-6 NN-6 NN-6	CWII-6 CWII-9 CWII-9 NW-1 NW-2 NW-3 NW-4 NW-5 NW-5 NW-6 Ext-1 Ext-2 Ext-2 Ext-2 Ext-2 Ext-2 N-1 N-1 N-1 N-1 N-1 N-1 N-1 N-1 N-1 N-1

NA - Not Available Measured in % Volume

Table 4 (continued)

4/08	0.1	0.4	0.4	1.1	3.3	0.0	1.0	1.5	0.3	0.7	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	0.0	0.0	0.0	NA	0.3
3/08	0.1	2.5	0.5	1.3	4.0	0.7	1.4	2.0	2.5	0.7	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.1	0.0	0.0	1.5	0.0	0.0	0.0	NA	0.3
2/08	0.1	0.5	6.0	2.1	10.0	1.2	2.2	2.7	0.4	0.7	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	0.0	0.0	0.0	NA	0.0	0.0	0.0	NA	0.5
1/08	0.0	0.5	9.0	2.2	7.0	1.1	1.5	2.1	0.3	1.0	0.0	0.0	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	0.0	0.0	0.0	2.0	0.0	0.0	0.0	NA	0.4
12/07	0.0	0.7	0.5	2.0	7.0	1.0	0.3	2.5	0.2	0.3	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	0.0	0.0	2.0	NA	0.5
11/07	0.0	0.0	0.1	0.2	5.0	1.4	2.8	3.5	1.0	2.1	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.3	0.0	0.0	0.0	NA	0.0
10/01	0.0	8.0	8.0	5.6	1.3	0.9	1.8	2.6	6.0	1.7	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.7	0.0	0.0	0.0	2.0	9.0
20/6	0.1	8.0	1.0	3.0	5.0	1.8	3.5	3.5	1.8	2.9	0.0	0.0	9.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	0.0	0.0	0.0	0.0	0.7
8/07	0.1	0.7	8.0	2.0	5.0	1.5	4.0	3.1	1.7	2.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	0.0	0.0	0.0	0.0	0.7
7/07	0.2	0.8	1.3	2.3	8.0	2.0	2.7	3.3	1.3	2.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	3.3	0.0	0.0	0.0	0.0	0.4
20/9	0.2	6.0	1.1	2.4	0.6	2.3	3.8	3.5	1.7	2.5	0.0	0.0	0.5	0.0	0.0	0.6	0.0	0.0	0.0	0.1	0,1	0.0	0.0	0.0	0.0	3.4	0.0	0.0	0.0	0.0	0.7
2/02	0.2	8.0	0.7	2.3	4.6	1.9	NA	2.6	6.0	1.7	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.3	0.0	0.0	2.8	0.0	0.0	0.0	0.0	0.5
Well	CWI-4	CWI-5	CWI-6	CWI-7	CWII-1	CWII-2	CWII-3	CWII-4	CWII-5	CWII-6	CWII-7	CWII-8	CWII-9	NW-1	NW-2	NW-3	NW-4	NW-5	9-MN	Ext-1	Ext-2	Ext-3	Ext-4	Ext-5	N-1	N-2	N-3	4-N	N-5	9-N	BS-1

NA - Not Available Measured in % Volume



Landfill Gas Control Well Vacuum Data East Northport Landfill, East Northport, New York for period of record between January, 2006 and April, 2008

															22															_	
2/07	-2.6	-2.7	-2.7	-2.5	-2.5	-2.4	-2.4	-2.3	-2.3	-1.6	<u>-</u>	0.0	-0.8	-2.1	-2.8	-2.6	-2.4	-2.1	-2.0	-0.1	-0.9	-2.1	-2.0	-1.7	-0.1	-0.5	-0.1	-0.1	-0.1	-0.9	-4.3
20/9	-2.8	-2.9	-2.9	-2.7	-2.6	-2.5	-2.6	-2.5	-2.4	-1.7	-1.3	-0.1	-0.9	-2.6	-3.9	-2.6	-2.4	-1.9	-2.1	-1.7	-2.1	-2.3	6'0-	-0.1	0.0	-0.3	-0.1	0.0	-0.1	6:0-	-7.3
2/07	-2.8	-2.9	-3.0	-2.8	-2.7	-2.6	NA	-2.5	-2.5	-1.7	-1.2	-0.1	-0.9	-2.8	-3.1	-2.7	-2.6	-2.2	-2.3	0.0	6.0-	-2.3	-2.1	-1.9	-0.1	-0.3	-0.1	-0.1	-0.1	-0.8	-4.8
4/07	-3.0	-3.2	-3.2	-2.9	-3.0	-2.8	NA	-2.6	-2.7	-1.6	-1.4	-0.1	-1.1	-2.9	-3.2	-3.0	-2.9	-2.6	-1.6	0.0	-0.9	-2.5	-2.3	-2.1	-0.2	9.0-	-0.1	-0.1	-0.1	-1.1	-5.1
3/07	-3.0	-3.2	-3.2	-3.0	-2.7	-2.6	-2.7	-2.7	-2.6	-1.7	-1.4	0.0	-1.0	-3.0	-3.2	-2.9	-2.6	-2.2	-2.3	0.0	8.0-	-2.2	-2.2	-2.0	0.0	-0.4	-0.1	-0.8	-0.1	NA	-5.0
2/07	-3.6	-3.6	-3.7	NA	-3.4	-3.4	-3.4	-3.7	-3.6	-0.2	-1.3	-0.1	-1.0	-3.4	-3.7	-3.4	-3.3	-3.0	-2.6	-0.1	-1.1	-2.9	-2.7	-2.3	0.1	-0.4	0.0	-0.2	-0.2	NA	-5.6
1/07	-3.0	-3.4	-3.5	-3.3	-3.4	-3.3	-3.1	-3.1	-3.2	-2.0	-1.7	-0.1	-1.4	-2.9	-3.3	-2.3	-2.8	-2.3	-2.3	-2.7	-2.1	-2.3	-2.0	-2.0	0.0	-0.3	0.0	0.0	0.0	NA	4.0
12/06	-4.2	-4.5	-4.3	4.1	-4.3	-3.9	-4.1	-4.0	-4.2	-2.3	-1.7	0.0	-1.2	-3.9	-4.5	-4.0	-3.6	-2.9	-3.0	-3.4	NA	-3.2	-3.5	-2.6	-0.2	-0.4	-0.2	-0.1	-0.2	NA	-7.2
11/06	-3.9	-4.4	-4.7	-4.5	-4.3	-4.2	-4.3	-5.0	-0.3	-1.7	-1.5	0.0	-0.9	-3.2	4.2	-4.0	-4.0	-3.6	-3.1	-3.6	-3.4	-3.3	-3.2	-2.4	-0.2	-0.5	-0.1	-0.1	-0.1	NA	-7.3
10/06	-2.8	-2.3	-2.9	-2.8	-2.6	-2.6	-2.7	-2.6	-2.6	-1.4	-1.1	0.0	-0.8	-2.5	-3.2	-2.8	-2.6	-2.1	-2.8	-0.1	-0.7	-2.1	-2.1	-1.6	-0.2	-0.6	-0.1	-0.2	-0.1	-1.0	-5.1
90/6	-1.2	-3.4	-2.9	-3.1	-2.9	-5.4	-0.6	-2.7	-2.6	-1.7	-1.3	0.0	-0.9	-3.7	-3.4	-3.2	-2.8	-2.3	-2.5	-0.1	-0.9	-2.3	-2.0	-1.6	-1.5	-0.3	-0.1	-0.1	-0.2	-0.9	-6.1
90/8	-5.2	-1.9	-6.4	-2.4	-6.3	-5.9	8.9-	-6.8	-7.0	-0.2	-0.2	0.0	-0.2	-4.0	-4.5	-4.0	-3.6	-2.6	-2.8	-0.7	-3.0	-3.3	-2.0	-0.1	-2.8	-0.9	-0.3	-0.2	-0.2	-0.2	-10.1
90/2	-3.3	-2.8	-4.0	-2.8	-3.2	-3.5	-2.6	-3.2	-2.3	-1.0	8.0-	0.0	9.0-	-3.2	-3.4	-3.2	-2.4	-2.2	-2.8	0.0	-0.1	-0.5	9.0-	-0.2	-1.0	-0.1	0.0	0.0	-0.1	-1.1	-8.5
90/9	-0.1	0.0	-0.3	-0.4	0.0	-0.5	0.0	-0.9	0.0	-0.1	-0.2	-0.1	6.0-	-2.4	-2.7	-2.8	-2.6	-2.5	-2.1	-0.3	9.0-	-1.9	-2.0	-1.5	0.0	0.0	-0.1	-0.1	-0.1	0.0	-3.1
90/9	-2.6	-2.8	-2.9	-2.8	-2.7	-2.7	-2.5	-2.7	-2.1	-1.9	-1.4	0.0	8.0-	-2.2	-2.9	-2.7	-2.7	-1.2	-1.6	-0.2	8.0-	-2.2	-2.1	-1.7	9.0-	NA	-0.1	-0.1	-0.1	NA	-4.6
4/06	-3.0	-2.6	-3.0	-2.8	-2.9	-2.8	-2.7	-2.6	-2.7	-1.6	-0.7	0.0	-1.0	-2.6	-2.6	-2.7	-3.0	-2.6	-3.0	-0.2	8.0-	-2.6	-1.6	-1.6	-0.4	-0.7	-0.2	-0.1	-1.0	-0.2	-4.6
3/06	-2.6	-3.2	-3.0	-2.8	-3.0	-2.7	-2.9	-2.4	-2.6	-1.5	-1.1	-0.2	-0.7	-2.8	-2.7	-2.8	-3.0	-2.6	-2.9	0.0	6.0-	-2.7	-1.8	-1.4	-0.4	-0.8	0.0	0.0	0.0	-0.1	-5.1
2/06	-2.6	-3.1	-3.1	-3.0	-3.0	-2.9	-2.9	-2.8	-2.5	-1.4	-1.0	0.0	9.0-	-2.8	-2.9	-2.9	-3.0	-2.9	-3.0	0.0	-0.8	-2.8	-1.9	-1.6	-0.2	-0.4	-0.1	0.0	-0.1	-0.8	-4.2
1/06	-2.9	-3.3	-3.5	-3.0	-3.1	-3.0	-3.0	-2.8	-2.8	-1.4	-1.2	0.0	6.0-	-2.8	-3.3	-2.8	-2.9	-2.3	-2.2	0.0	9.0-	-2.1	-2.0	-0.8	-0.3	-0.4	-0.1	0.0	-0.1	NA	-4.9
Well	CWI-4	CWI-5	9-IMO	CWI-7	CWII-1	CWII-2	CWII-3	CWII-4	CWII-5	9-IIMO	CWII-7	CWII-8	CWII-9	NW-1	NW-2	NW-3	NW-4	NW-5	9-MN	Ext-1	Ext-2	Ext-3	Ext-4	Ext-5	N-1	N-2	N-3	N-4	N-5	9-N	BS-1

Measured in inches of H20 NA - Not Available

Landfill Gas Control Well Vacuum Data
East Northport Landfill, East Northport, New York
for period of record between January, 2006 and April, 2008

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4/08	-1.8	-3.0	-3.1	-2.7	-2.6	-2.6	-3.1	-2.5	-2.8	-1.6	-1.2	0.0	6.0-	-2.7	-2.9	-2.7	-3.1	-2.2	-2.1	0.0	-0.9	-2.2	-1.9	-1.8	-0.2	9.0-	-0.1	-0.1	-0.1	NA	-4.2
3/08	-3.7	-3.5	-3.4	-3.3	-3.2	-3.6	-3.1	-3.5	-3.1	-2.2	-1.7	0.0	-0.2	-3.1	-3.8	-3.1	-2.8	-2.2	-2.4	-0.1	-1.0	-2.7	-2.3	-2.1	-0.2	-0.4	-0.1	0.0	-0.1	NA	-5.2
2/08	-3.7	-3.7	-3.3	-3.7	-4.1	-3.2	-3.7	-1.8	-3.0	-1.2	-1.2	-0.1	-0.2	-3.0	-3.4	-4.3	-3.4	-2.5	-2.4	-0.1	-1.0	-2.6	-2.4	-2.0	-0.3	NA	-0.2	-0.2	-0.1	NA	-5.0
1/08	-2.9	-3.1	-3.2	-3.0	-2.9	-2.9	-2.9	-2.9	-2.9	-2.0	-1.5	0.0	-1:1	-2.8	-3.1	-2.7	-2.4	-2.1	-2.1	-2.1	-0.9	-2.2	-2.1	-1.8	-0.1	9.0-	-0.1	-0.1	-0.1	NA	-4.5
12/07	-3.0	-3.5	-3.4	-3.1	-3.0	-3.5	-2.9	-3.6	-3.5	-0.2	-0.3	0.0	9.0-	-2.9	-3.3	-2.8	-2.6	-2.1	-2.2	-0.1	-0.9	-2.3	-2.2	-1.9	-0.2	9.0-	-0.2	-0.2	-0.1	NA	-5.1
11/07	-3.1	-3.0	-2.9	-2.5	-2.4	-2.5	-2.4	-2.3	-2.6	-1.3	-1.1	0.0	6.0-	-2.5	-3.1	-2.5	-2.2	-2.0	-2.2	-0.1	-0.7	-1.9	-1.9	-1.5	-0.2	9.0-	0.0	0.0	0.0	NA	-4.7
10/01	-2.5	-2.7	-2.4	-2.4	-2.4	-2.4	-2.3	-2.2	-2.2	-1.5	-1.2	-0.1	-0.9	-2.5	-2.9	-2.4	-2.3	-1.9	-1.9	0.0	-0.7	-1.9	-2.2	-1.7	-0.2	-0.7	-0.2	-0.1	-0.2	-0.9	4.4-
20/6	-2.5	-2.8	-2.2	-2.5	-1.5	-2.3	-2.4	-2.1	-2.4	-1.5	-1.1	0.0	-0.9	-2.4	-1.7	-2.0	-2.2	-1.8	-1.8	0.0	-0.8	-2.0	-1.9	-1.5	-0.2	-0.5	-0.1	-0.1	-0.1	-0.8	0.3
8/07	-2.6	-2.7	-2.6	-2.5	-2.3	-2.3	-2.3	-3.2	-2.2	-1.6	-1.2	0.0	-0.2	-2.6	-2.8	-2.5	-2.2	-1.8	-1.8	-0.1	-0.7	-2.1	-1.9	-1.6	-0.3	9.0-	-0.2	-0.1	-0.1	6.0-	-5.6
Well	CWI-4	CWI-5	CWI-6	CWI-7	CWII-1	CWII-2	CWII-3	CWII-4	CWII-5	9-IIMO	CWII-7	CWII-8	CWII-9	NW-1	NW-2	NW-3	NW-4	NW-5	9-MN	Ext-1	Ext-2	Ext-3	Ext-4	Ext-5	N-1	N-2	N-3	A-N	N-5	9-N	BS-1

Measured in inches of H20 NA - Not Available