Landfill Gas and Control System Monitoring
Town of Huntington East Northport Landfill
East Northport, New York
October, 2010

Prepared for:

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TABLE OF CONTENTS

Figure

Summary Tables

Appendix

Landfill Gas and Control System Monitoring
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Introduction

This report presents the results of October, 2010 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.

The landfill area and pertinent components of the landfill gas monitoring and control system are depicted in Figure 1. 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 41 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 October 20, 2010. Climatic conditions for the monitoring period are as follows:

Temperature: 50 (°F); Barometric Pressure: 29.88 (in. Hg); Relative Humidity: 77.0%; Precipitation: 0.00 inches; Wind Speed & Direction: 3.0 mph, southwesterly.

Monitoring Wells

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

LFG Control Wells

Table 2 presents 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. As shown on Table 2, control well vacuum values (i.e., negative pressure), a direct indicator of the system's balance, range from 0.00 - -0.88 (in. H_20). "Extracted" methane values range from 0.0 – 6.0%.

Blower Station Outlet

Analytical results in relation to landfill gas sampled at Blower Station outlet BS-3 (via a SUMMA canister using EPA Method TO-14) - in comparison to background levels developed from the Environmental Protection Agency's *Building Assessments and Survey Evaluation Database* (2001) - are summarized in Appendix 1. A copy of the original laboratory analytical report is presented in Appendix 2.

Condensate Traps

Standing water measured within condensate traps CD-1 (4.0 feet), CD-2 (4.8 feet), CD-3 (8.1 feet), CD-4 (7.9 feet) and CD-5 (5.1 feet) was evacuated, as per usual, upon the completion of monitoring activities.

Discussion

Methane Monitoring Data

Table 3 presents a summary of measured and recorded methane concentrations detected at landfill gas monitoring wells throughout the period-of-record from January, 2006 through October, 2010. As shown on Table 3, methane has historically been detected sporadically and at low levels at 14 site monitoring wells. The highest concentration detected throughout the entire landfill gas monitoring well network continues to be 5.0 %; as measured at Animal Control Facility monitoring well AS-NE during March, 2001 monitoring activities (see October, 2007 report).

Methane has not been detected at primary landfill gas migration control system monitoring wells since a nominal concentration (0.1%) was recorded at 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 October, 2010 is presented on Table 4. As shown, reported values are generally consistent throughout the 58 month period, though a general decrease in detected concentrations is indicated.

Physical and Operating Condition

Based upon current and historical 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. As shown in Appendix 3, vacuum values measured during the last ten monthly monitoring events are historically low throughout the system. This phenomenon has been attributed to precipitation and subsequent control well flooding.

The physical condition of system monitoring wells and control wells is noted on Table 1 and Table 2, respectively. As shown, with the exception of monitoring well MW-13 (riser pipe disconnected at probe B), monitoring wells and control wells were accessible and in good condition. In addition, unlike the recent past, no control wells were flooded during October monitoring activities. Blower station pump # 2 was in operation during October 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.

Recommendations

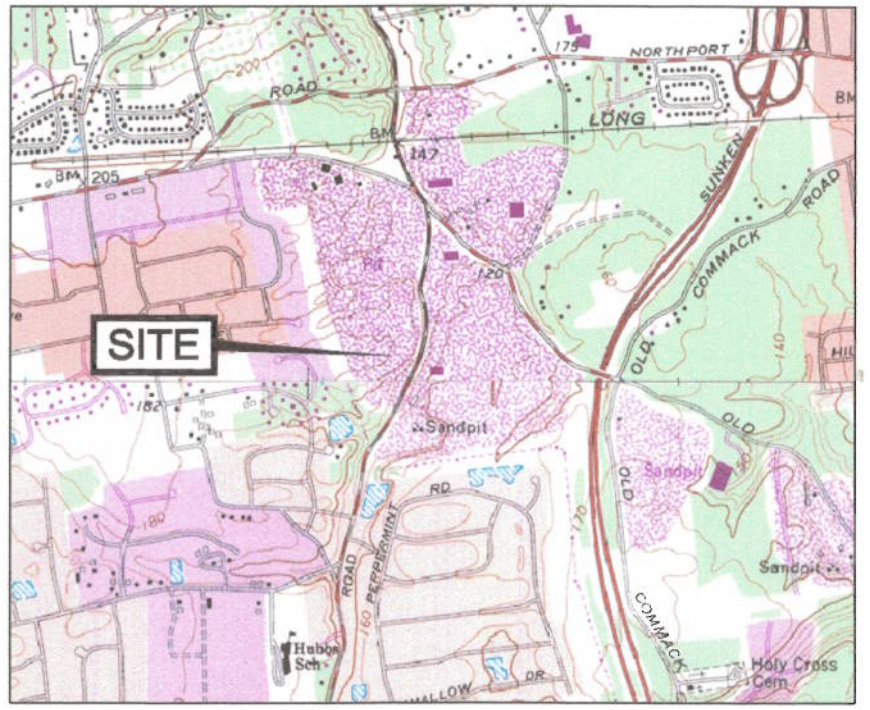
* In the event that methane is detected at any monitoring well associated with the primary landfill gas migration control system, recommence the monitoring of off and on-site structures.

* 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 (e.g., weekly) and, when necessary (i.e., following extended periods of precipitation or snow melt), increase the pumpage periodicity of standing water within condensate traps CD-1 through CD-5.

* Confirm anticipated increase in control well vacuum values with decreasing precipitation. In the event vacuum values do not increase, test the primary landfill gas migration control system header pipe for the presence of blockages and/or leaks.



SITE LOCATOR
APPROXIMATE SCALE: 1" = 2000'

LEGEND

- MW-45 — MONITORING WELL
- EXT-2 — CONTROL WELL
- CD-1 — CONDENSATE DRAIN
- HEADER PIPE
- DIRECTION OF LANDFILL GAS FLOW IN HEADER PIPE

ANIMAL SHELTER
L.I.P.A RIGHT-OF-WAY
SYSTEM ISOLATION VALVE A
RECHARGE BASIN
APPROXIMATE LIMIT OF LANDFILL TOE OF SLOPE (TYP)
BLOWER STATION
WEST BRANCH
EAST BRANCH
TOWN LINE ROAD

MW-51, EXT-5, AS-NW, AS-NE, MW-A, MW-48, MW-49, EXT-4, MW-47, EXT-3, AS-SW, AS-SC, AS-SE, N1, MW-46, MW-45, EXT-2, N2, MW-B, MW-44, EXT-1, NW6, SYSTEM ISOLATION VALVE A, N3, N4, MW-43, CD-1, NW5, MW-42, NW4, N5, MW-41, MW-2, NW3, MW-40, N6, MW-3, CD-5, MW-4, NW2, CWII-9, MW-5, NW1, MW-38, CWII-8, MW-6, MW-37, CD-2, CWII-7, MW-7, CWII-6, CD-4, CWII-5, MW-8, MW-23, CWI-4, CWII-4, MW-11, MW-10, MW-9, MW-13, MW-12, MW-28, MW-27, MW-26, CWI-5, CWI-6, CWI-7, CD-3, CWII-3, CWII-2, CWII-1, MW-25, MW-24, MW-22, MW-20, MW-19, MW-18, MW-17, MW-16, MW-15, MW-21

R & C FORMATION, LTD.

TITLE: LANDFILL GAS MONITORING AND CONTROL SYSTEM		DATE: 9/22/03
		SCALE: AS SHOWN
FIGURE: 1	TOWN OF HUNTINGTON EAST NORTHPORT LANDFILL EAST NORTHPORT, NY	DRAWING NO: 01006-1A
		APPR. BY: B.C.

Table 1
Landfill Gas Monitoring Well Data
Town of Huntington East Northport Landfill, East Northport, New York
Measured October 20, 2010

Well No.	Probe Pressure (in. H2O)				Methane 0-100% (Volume)				Condition
	A	B	C	D	A	B	C	D	
MW-A	-0.10	-0.10			0.0	0.0			
MW-B	-0.03	-0.04			0.0	0.0			
MW-2	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	
MW-3	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	
MW-4	0.00	-0.03	0.00	-0.03	0.0	0.0	0.0	0.0	
MW-5	0.00	0.00	0.00		0.0	0.0	0.0		
MW-6	0.00	0.00	0.00		0.0	0.0	0.0		
MW-7	0.00	0.00	-0.02		0.0	0.0	0.0		
MW-8	-0.09	0.00	0.00		0.0	0.0	0.0		
MW-9	-0.06	0.00	-0.06		0.0	0.0	0.0		
MW-10	-0.03	0.00	-0.05	-0.05	0.0	0.0	0.0	0.0	
MW-11	0.00	0.00	-0.04	-0.04	0.0	0.0	0.0	0.0	
MW-12	0.00	0.00	0.00		0.0	0.0	0.0		
MW-13	0.00	NA	-0.04		0.0	NA	0.0		*Riser pipe disconnected at Probe B*
MW-15	0.00	0.00	0.00		0.0	0.0	0.0		
MW-16	-0.06	-0.07	-0.06		0.0	0.0	0.0		
MW-17	-0.08	0.00	-0.06		0.0	0.0	0.0		
MW-18	0.00	0.00	-0.09		0.0	0.0	0.0		
MW-19	0.00	0.00	-0.11	0.00	0.0	0.0	0.0	0.0	
MW-20	0.00	-0.12	-0.11		0.0	0.0	0.0		
MW-21	-0.02	-0.06	-0.05	-0.04	0.0	0.0	0.0	0.0	
MW-22	-0.07	-0.03	-0.03		0.0	0.0	0.0		

Table 1 (continued)

Well No.	Probe Pressure (in. H2O)				Methane 0-100% (Volume)				Condition
	A	B	C	D	A	B	C	D	
MW-23	-0.05	-0.06	-0.05	-0.05	0.0	0.0	0.0	0.0	
MW-24	0.00	0.00	0.00		0.0	0.0	0.0		
MW-25	-0.11	-0.12	-0.13		0.0	0.0	0.0		
MW-26	-0.05	-0.05	-0.05	-0.05	0.0	0.0	0.0	0.0	
MW-27	0.00	0.00	0.00		0.0	0.0	0.0		
MW-28	0.00	0.00	0.00		0.0	0.0	0.0		
MW-37	0.00	0.00	0.00		0.0	0.0	0.0		
MW-38	0.00	-0.02	-0.03		0.0	0.0	0.0		
MW-40	0.00	0.00	-0.03	-0.02	0.0	0.0	0.0	0.0	
MW-41	0.00	0.00	0.00		0.0	0.0	0.0		
MW-42	0.00	0.00	0.00		0.0	0.0	0.0		
MW-43	0.00	0.00	0.00		0.0	0.0	0.0		
MW-44	0.00	0.00	0.00		0.0	0.0	0.0		
MW-45	0.00	0.00	0.00		0.0	0.0	0.0		
MW-46	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	
MW-47	0.00	0.00	0.00		0.0	0.0	0.0		
MW-48	0.00	0.00	0.00		0.0	0.0	0.0		
MW-49	0.00	0.00	0.00		0.0	0.0	0.0		
MW-51	0.00	0.00	0.00		0.0	0.0	0.0		
AS-NW	0.00				0.0				
AS-NE	0.00				0.0				
AS-SW	0.00				0.0				
AS-SC	0.00				0.0				
AS-SE	0.00				0.0				

A - Shallow Probe *B - Middle Probe* *C - Deep Probe* *D - Deepest Probe*

Shading indicates the well is not equipped with that particular probe.

NA - Not Available

Table 2
Landfill Gas Control Well Data
Town of Huntington East Northport Landfill, East Northport, New York
Measured October 20, 2010

Well No.	Temp (°F)	Flow Rate (ft³/min)	Vacuum (in. H2O)	Methane 0-100 % (Volume)	Oxygen % in Air	Condition
CWI-4	61.8	212.00	-0.78	0.0	20.1	
CWI-5	70.9	157.00	-0.55	0.2	19.6	
CW1-6	72.8	141.00	-0.16	0.6	18.9	
CWI-7	75.5	23.60	-0.85	0.3	19.5	
CWII-1	81.2	38.50	-0.79	1.1	18.1	
CWII-2	92.6	105.00	-0.72	6.0	14.2	
CWII-3	94.9	101.30	-0.71	3.0	15.5	
CWII-4	90.7	64.50	-0.74	2.8	14.3	
CWII-5	79.0	61.00	-0.72	1.5	17.4	
CWII-6	87.2	21.60	-0.73	1.1	15.5	
CWII-7	71.0	26.70	-0.40	0.0	17.9	
CWII-8	70.9	6.30	-0.02	0.0	20.6	
CWII-9	77.8	47.90	-0.29	0.4	17.8	
NW-1	57.1	144.00	-0.80	0.0	20.9	
NW-2	57.2	58.50	-0.88	0.0	20.8	
NW-3	57.6	57.00	-0.78	0.0	20.9	
NW-4	56.1	51.50	-0.20	0.0	20.6	
NW-5	57.9	111.00	-0.55	0.0	20.9	
NW-6	58.3	27.80	-0.57	0.0	20.7	
Ext-1	59.6	40.10	-0.21	0.0	19.4	
Ext-2	61.7	3.45	0.00	0.0	20.4	
Ext-3	65.4	27.20	-0.52	0.4	18.1	
Ext-4	68.0	56.50	-0.18	0.0	19.6	
Ext-5	59.2	63.00	-0.40	0.0	20.9	
N-1	68.3	6.00	-0.33	0.0	19.8	
N-2	74.2	14.80	-0.15	4.2	10.0	
N-3	71.6	0.49	-0.02	0.0	20.0	
N-4	62.1	3.78	-0.02	0.0	19.8	
N-5	66.3	4.01	-0.02	0.0	19.8	
N-6	70.0	22.10	-0.29	0.0	19.7	
Blower Station - 1	63.2	2,430.00	-1.46	0.2	20.6	
Blower Station - 2	64.2	2,860.00	-3.50	0.4	19.7	
Blower Station - 3	69.8	1,930.00	0.05	0.5	19.0	

NA - Not Available

Table 3
Summary of Methane Detections
Landfill Gas Monitoring Wells
Town of Huntington East Northport Landfill, East Northport, New York
for period of record between January, 2006 and October, 2010

Well	1/06	2/06	3/06	4/06	5/06	6/06	7/06	8/06	9/06	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	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	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	5/07	6/07	7/07	8/07	9/07	10/07	11/07	12/07	1/08	2/08	3/08	4/08	5/08	6/08	7/08	8/08
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	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	NA	NA	NA	NA	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	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

NA - Not Available

Measured in % Volume

Table 3 (continued)

Well	9/08	10/08	11/08	12/08	1/09	2/09	3/09	4/09	5/09	6/09	7/09	8/09	9/09	10/09	11/09	12/09
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	NA	NA	NA	NA	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	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

NA - Not Available

Measured in % Volume

Table 3 (continued)

Well	1/10	2/10	3/10	4/10	5/10	6/10	7/10	8/10	9/10	10/10						
MW-7C	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						
MW-9A	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						
MW-9C	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						
MW-12A	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						
MW-18A	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						
MW-24C	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						
MW-39A	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						
MW-49B	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						
AS-SW	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						
AS-NE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0						

NA - Not Available

Measured in % Volume

Table 4
Landfill Gas Control Well Methane Data
Town of Huntington East Northport Landfill, East Northport, New York
for period of record between January, 2006 and October, 2010

Well	1/06	2/06	3/06	4/06	5/06	6/06	7/06	8/06	9/06	10/06	11/06	12/06	1/07	2/07	3/07	4/07
CWI-4	0.0	0.3	0.4	0.2	0.1	0.3	0.1	0.0	0.0	0.2	0.1	0.1	0.1	0.1	0.0	0.1
CWI-5	0.0	1.8	2.0	1.5	0.8	1.5	0.2	0.0	0.0	1.0	0.8	0.7	0.7	2.1	0.0	0.7
CWI-6	0.1	0.3	0.1	0.4	1.0	0.9	0.2	0.0	0.0	0.0	1.0	0.6	0.6	0.0	0.0	0.8
CWI-7	0.2	5.0	6.0	5.0	0.1	0.7	0.6	0.0	0.0	0.2	2.2	1.5	1.1	NA	0.1	2.0
CWII-1	0.4	5.0	6.0	2.7	1.6	2.4	2.6	7.0	0.0	0.3	4.0	4.0	3.8	5.0	5.0	3.8
CWII-2	0.2	4.5	4.2	3.4	2.7	1.9	1.0	2.2	0.0	3.0	1.6	1.6	1.6	1.2	1.7	1.7
CWII-3	0.2	2.3	2.1	0.9	1.8	1.5	1.5	1.7	0.0	0.2	0.0	0.7	1.1	1.1	1.3	NA
CWII-4	0.2	4.0	3.8	1.0	4.0	1.3	0.8	4.7	0.0	0.3	5.0	2.8	2.8	1.7	3.6	2.7
CWII-5	0.0	1.0	4.2	0.5	0.7	0.6	0.4	1.5	0.0	0.0	0.8	0.4	0.6	0.8	0.2	0.4
CWII-6	0.2	3.5	0.7	0.8	2.0	0.6	1.1	0.5	0.0	0.1	0.9	1.4	1.7	1.7	0.3	1.2
CWII-7	0.0	0.1	3.4	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0
CWII-8	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CWII-9	0.0	1.1	0.0	0.7	0.6	0.2	0.5	0.4	0.0	0.0	0.4	0.4	0.7	0.6	0.4	0.3
NW-1	0.0	0.0	1.0	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
NW-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	0.0	0.0	0.0	0.0
NW-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	0.0	0.0	0.0	0.0
NW-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	0.0	0.0	0.0	0.0
NW-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
NW-6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ext-1	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ext-2	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ext-3	0.2	0.0	0.0	0.0	0.2	0.0	0.8	0.2	0.0	3.0	1.2	0.3	1.3	0.2	0.0	0.1
Ext-4	0.2	0.0	0.0	0.0	0.4	0.2	0.4	0.1	0.0	2.0	0.4	0.2	1.0	0.1	0.0	0.1
Ext-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
N-1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
N-2	2.6	1.3	0.6	11.0	NA	0.0	4.8	0.0	0.8	4.4	3.0	0.5	0.2	0.0	3.1	4.0
N-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	0.0	0.0	0.0	0.0
N-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	0.0	0.0	0.0	0.0
N-5	0.0	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
N-6	NA	0.0	0.0	0.1	NA	0.7	0.1	0.1	0.0	0.0	NA	NA	NA	NA	NA	0.0
BS-1	0.1	0.0	0.6	0.9	0.7	0.4	0.4	0.0	0.1	0.9	0.7	0.5	0.5	0.6	0.1	0.5

NA - Not Available
Measured in % Volume

Table 4 (continued)

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

NA - Not Available
Measured in % Volume

Table 4 (continued)

Well	9/08	10/08	11/08	12/08	1/09	2/09	3/09	4/09	5/09	6/09	7/09	8/09	9/09	10/09	11/09	12/09
CWI-4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.0	0.0	0.0	0.0	0.1	0.2	0.3
CWI-5	0.2	1.5	0.3	0.0	0.3	0.0	0.1	0.2	0.2	0.0	0.1	0.0	0.2	0.5	0.4	0.3
CWI-6	0.2	0.2	0.6	0.0	0.5	0.0	0.0	0.3	0.3	0.0	0.0	0.1	0.0	1.1	1.0	1.2
CWI-7	0.8	0.4	2.0	NA	0.6	0.0	0.3	1.0	1.2	0.0	0.1	0.1	0.1	NA	NA	NA
CWII-1	1.8	1.1	3.3	0.0	2.2	0.1	0.5	1.5	1.6	0.9	5.0	5.2	4.5	5.0	4.8	4.3
CWII-2	0.4	0.3	1.0	0.0	0.5	0.1	0.2	0.5	0.6	0.0	3.3	3.5	3.1	1.8	1.6	1.8
CWII-3	0.3	0.1	1.0	0.0	0.5	0.0	0.3	0.9	1.0	0.7	2.2	2.4	2.4	3.0	2.8	2.7
CWII-4	0.7	0.3	1.5	NA	0.1	0.1	0.5	1.6	1.4	0.8	1.5	1.7	1.8	2.0	1.6	1.9
CWII-5	0.2	0.0	0.4	0.0	0.1	0.0	0.1	0.1	0.0	0.2	0.2	0.1	1.2	1.1	1.0	1.7
CWII-6	0.6	0.8	1.0	NA	0.0	0.0	0.2	NA	NA	NA	NA	NA	0.8	NA	NA	NA
CWII-7	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	0.1
CWII-8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CWII-9	0.1	0.1	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.3	0.2	0.6	0.2	0.1	0.4
NW-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	NA
NW-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	0.0	0.0	0.0	0.0
NW-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	0.0	0.0	0.0	0.0
NW-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	0.0	0.0	0.0	0.0
NW-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
NW-6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	NA
Ext-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
Ext-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	0.0	0.0	0.0	0.0
Ext-3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
Ext-4	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.4	0.1	0.0	0.0	0.0	0.1	0.0	0.0
Ext-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	0.0	0.0	0.1	0.0
N-1	0.0	NA	NA	NA	NA	0.0	0.0	0.0	0.0	NA	0.0	0.0	0.0	0.0	NA	0.0
N-2	2.0	2.3	2.0	0.0	2.5	0.0	1.5	1.5	0.0	4.0	3.5	3.8	3.8	9.0	8.4	0.6
N-3	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
N-4	0.0	0.0	0.0	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
N-5	0.0	0.0	0.0	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.1	0.0	0.0	0.0
N-6	0.0	NA	NA	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	NA	NA	0.0
BS-1	0.1	0.1	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.8	0.0	0.0	0.0	0.5	0.5	0.3

NA - Not Available
Measured in % Volume

Table 4 (continued)

Well	1/10	2/10	3/10	4/10	5/10	6/10	7/10	8/10	9/10	10/10						
CWI-4	0.1	NA	0.0	0.1	0.5	0.1	0.0	0.1	0.1	0.0						
CWI-5	1.0	1.0	0.8	0.2	0.3	1.0	0.0	0.7	0.5	0.2						
CWI-6	NA	0.0	1.2	1.1	0.8	0.7	NA	0.6	0.8	0.6						
CWI-7	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.3						
CWII-1	4.0	3.5	5.0	4.2	4.1	3.3	6.0	6.0	5.0	1.1						
CWII-2	1.5	1.0	2.3	1.9	2.1	1.6	3.0	2.2	2.0	6.0						
CWII-3	1.5	1.4	1.2	0.0	0.3	1.3	6.0	3.5	2.2	3.0						
CWII-4	2.0	2.0	0.5	0.1	0.0	1.5	2.2	1.5	1.3	2.8						
CWII-5	0.5	1.0	NA	0.1	0.1	1.0	2.1	1.6	1.5	1.5						
CWII-6	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.1						
CWII-7	0.1	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0						
CWII-8	0.1	0.0	0.0	0.0	0.5	0.1	0.4	0.0	0.0	0.0						
CWII-9	0.2	0.1	0.0	0.1	0.1	0.2	0.0	0.5	0.5	0.4						
NW-1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0						
NW-2	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0						
NW-3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0						
NW-4	0.0	0.0	0.0	0.1	0.2	0.0	0.0	0.0	0.0	0.0						
NW-5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0						
NW-6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0						
Ext-1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0						
Ext-2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0						
Ext-3	0.1	0.4	0.2	0.0	0.0	0.2	0.0	0.4	0.4	0.4						
Ext-4	0.1	0.4	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0						
Ext-5	0.1	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0						
N-1	0.0	0.0	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0						
N-2	4.5	4.0	NA	0.0	1.6	0.0	0.0	0.0	4.0	4.2						
N-3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0						
N-4	0.0	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0						
N-5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0						
N-6	NA	NA	NA	NA	NA	NA	NA	NA	0.0	0.0						
BS-1	0.4	0.3	0.0	0.0	0.1	0.1	0.0	0.2	0.5	0.2						

NA - Not Available

Measured in % Volume

APPENDIX 1

Summary of Analytical Results
Landfill Gas Sampled October 20, 2010

Volitile Organic Compounds Reported in Micrograms Per Cubic Meter

Parameter	Summa-1	EPA BASE Outdoor minimum *	EPA BASE Outdoor maximum *
Benzene	4.40	ND(1.2)	13.0
Bromomethane	ND(0.10)	ND(0.6)	4.5
Carbon Tetrachloride	ND(0.10)	ND(0.6)	1.5
Chlorobenzene	4.40	ND(0.4)	1.1
Chloroethane	0.36	ND(0.6)	3.5
Chloroform	0.94	ND(0.2)	13.8
Chloromethane	0.22	0.9	10.6
1,2-Dibromoethane	ND(0.10)	ND(0.8)	ND(2.0)
1,2-Dichlorobenzene	0.37	ND(0.6)	1.1
1,3-Dichlorobenzene	ND(0.10)	ND(0.6)	ND(2.8)
1,4-Dichlorobenzene	1.80	ND(0.6)	6.1
Dichlorodifluoromethane	3.20	ND(4.4)	183.7
1,1-Dichloroethane	0.10	ND(0.4)	ND(0.8)
1,2-Dichloroethane	ND(0.10)	ND(0.4)	0.8
1,1-Dichloroethylene	ND(0.10)	ND(0.8)	ND(1.6)
cis-1,2-Dichloroethylene	0.25	ND(0.6)	1.1
1,2-Dichloropropane	ND(0.10)	ND(0.6)	ND(1.8)
cis-1,3-Dichloropropene	ND(0.10)	ND(1.4)	ND(2.6)
trans-1,3-Dichloropropene	ND(0.10)	ND(0.6)	ND(1.4)
1,2-Dichlorotetrafluoroethane (114)	11.00	ND(1.6)	ND(7.8)
Ethylbenzene	0.87	ND(0.8)	7.8
Hexachlorobutadiene	ND(0.10)	ND(1.4)	ND(7.8)
Methylene Chloride	0.20	ND(1.0)	78.5
Styrene	ND(0.10)	ND(0.6)	58.0
1,1,2,2-Tetrachloroethane	ND(0.10)	NA	NA
Tetrachloroethylene	2.10	ND(0.8)	27.6
Toluene	1.60	2.1	93.1
1,2,4-Trichlorobenzene	ND(0.10)	ND(0.6)	ND(7.8)
1,1,1-Trichloroethane	0.10	ND(0.4)	8.7
1,1,2-Trichloroethane	ND(0.10)	ND(0.6)	ND(1.8)
Trichloroethylene	0.24	ND(0.6)	13.5
Trichlorofluoromethane	0.70	ND(2.0)	132.5
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND(0.10)	ND(1.2)	5.4
1,2,4-Trimethylbenzene	2.30	ND(0.4)	24.2
1,3,5-Trimethylbenzene	0.50	ND(0.8)	8.9
Vinyl Chloride	1.40	ND(0.6)	ND(2.6)
m/p-Xylene	2.00	ND(1.4)	26.8
o-Xylene	1.20	ND(0.6)	11.1

Note:

ND( ) = Not detected at the method detection limit

* Background levels per United States Environmental Protection Agency Building Assessments and Survey Evaluation Database (BASE 2001)

APPENDIX 2

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November 1, 2010

Bob Casson
R&C Formation
705 Bedford Avenue, Suite 2B
Bellmore, NY 11710

Project Location: East Northport, NY
Client Job Number:
Project Number: [none]
Laboratory Work Order Number: 10J0697

Enclosed are results of analyses for samples received by the laboratory on October 21, 2010. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Holly L. Folsom
Project Manager

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REPORT DATE: 11/1/2010

R&C Formation
705 Bedford Avenue, Suite 2B
Bellmore, NY 11710
ATTN: Bob Casson

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 10J0697

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: East Northport, NY

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
SUMMA-1	10J0697-01	Soil Gas	Air, LFG	EPA TO-14A	

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CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Michael A. Erickson
Laboratory Director

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ANALYTICAL RESULTS

Project Location: East Northport, NY
Date Received: 10/21/2010
Field Sample #: SUMMA-1
Sample ID: 10J0697-01
Sample Matrix: Soil Gas
Sampled: 10/20/2010 12:04

Sample Description/Location: Air, LFG
Sub Description/Location:
Canister ID: 1138
Canister Size: 6 liter
Flow Controller ID: 5038
Sample Type: Grab

Work Order: 10J0697
Initial Vacuum(in Hg): -30
Final Vacuum(in Hg): 0
Receipt Vacuum(in Hg): -1
Flow Controller Type:
Flow Controller Calibration
RPD Pre and Post-Sampling:

EPA TO-14A

Analyte	ppbv Results	ppbv RL	Flag	ug/m3 Results	ug/m3 RL	Dilution	Date/Time Analyzed	Analyst
Benzene	4.4	0.10		14	0.32	2	10/25/10 5:38	TPH
Bromomethane	ND	0.10		ND	0.39	2	10/25/10 5:38	TPH
Carbon Tetrachloride	ND	0.10		ND	0.63	2	10/25/10 5:38	TPH
Chlorobenzene	4.4	0.10		20	0.46	2	10/25/10 5:38	TPH
Chloroethane	0.36	0.10		0.94	0.26	2	10/25/10 5:38	TPH
Chloroform	0.94	0.10		4.6	0.49	2	10/25/10 5:38	TPH
Chloromethane	0.22	0.10		0.45	0.21	2	10/25/10 5:38	TPH
1,2-Dibromoethane (EDB)	ND	0.10		ND	0.77	2	10/25/10 5:38	TPH
1,2-Dichlorobenzene	0.37	0.10		2.2	0.60	2	10/25/10 5:38	TPH
1,3-Dichlorobenzene	ND	0.10		ND	0.60	2	10/25/10 5:38	TPH
1,4-Dichlorobenzene	1.8	0.10		11	0.60	2	10/25/10 5:38	TPH
Dichlorodifluoromethane (Freon 12)	3.2	0.10		16	0.49	2	10/25/10 5:38	TPH
1,1-Dichloroethane	0.10	0.10		0.41	0.40	2	10/25/10 5:38	TPH
1,2-Dichloroethane	ND	0.10		ND	0.40	2	10/25/10 5:38	TPH
1,1-Dichloroethylene	ND	0.10		ND	0.40	2	10/25/10 5:38	TPH
cis-1,2-Dichloroethylene	0.25	0.10		0.98	0.40	2	10/25/10 5:38	TPH
1,2-Dichloropropane	ND	0.10		ND	0.46	2	10/25/10 5:38	TPH
cis-1,3-Dichloropropene	ND	0.10		ND	0.45	2	10/25/10 5:38	TPH
trans-1,3-Dichloropropene	ND	0.10		ND	0.45	2	10/25/10 5:38	TPH
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	11	0.10		79	0.70	2	10/25/10 5:38	TPH
Ethylbenzene	0.87	0.10		3.8	0.43	2	10/25/10 5:38	TPH
Hexachlorobutadiene	ND	0.10		ND	1.1	2	10/25/10 5:38	TPH
Methylene Chloride	0.20	0.20		0.71	0.69	2	10/25/10 5:38	TPH
Styrene	ND	0.10		ND	0.43	2	10/25/10 5:38	TPH
1,1,2,2-Tetrachloroethane	ND	0.10		ND	0.69	2	10/25/10 5:38	TPH
Tetrachloroethylene	2.1	0.10		14	0.68	2	10/25/10 5:38	TPH
Toluene	1.6	0.10		6.1	0.38	2	10/25/10 5:38	TPH
1,2,4-Trichlorobenzene	ND	0.10		ND	0.74	2	10/25/10 5:38	TPH
1,1,1-Trichloroethane	0.10	0.10		0.56	0.55	2	10/25/10 5:38	TPH
1,1,2-Trichloroethane	ND	0.10		ND	0.55	2	10/25/10 5:38	TPH
Trichloroethylene	0.24	0.10		1.3	0.54	2	10/25/10 5:38	TPH
Trichlorofluoromethane (Freon 11)	0.70	0.10		3.9	0.56	2	10/25/10 5:38	TPH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.10		ND	0.77	2	10/25/10 5:38	TPH
1,2,4-Trimethylbenzene	2.3	0.10		11	0.49	2	10/25/10 5:38	TPH
1,3,5-Trimethylbenzene	0.50	0.10		2.5	0.49	2	10/25/10 5:38	TPH
Vinyl Chloride	1.4	0.10		3.6	0.26	2	10/25/10 5:38	TPH
m&p-Xylene	2.0	0.20		8.8	0.87	2	10/25/10 5:38	TPH
o-Xylene	1.2	0.10		5.2	0.43	2	10/25/10 5:38	TPH

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ANALYTICAL RESULTS

Project Location: East Northport, NY
Date Received: 10/21/2010
Field Sample #: SUMMA-1
Sample ID: 10J0697-01
Sample Matrix: Soil Gas
Sampled: 10/20/2010 12:04

Sample Description/Location: Air, LFG
Sub Description/Location:
Canister ID: 1138
Canister Size: 6 liter
Flow Controller ID: 5038
Sample Type: Grab

Work Order: 10J0697
Initial Vacuum(in Hg): -30
Final Vacuum(in Hg): 0
Receipt Vacuum(in Hg): -1
Flow Controller Type:
Flow Controller Calibration
RPD Pre and Post-Sampling:

EPA TO-14A

Analyte	ppbv Results	ppbv RL	Flag	ug/m3 Results	ug/m3 RL	Dilution	Date/Time Analyzed	Analyst
Surrogates	% Recovery			% REC Limits				
4-Bromofluorobenzene (1)	92.2			70-130			10/25/10 5:38	

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Sample Extraction Data

Prep Method: TO-15 Prep-EPA TO-14A

Lab Number [Field ID]	Batch	Pressure Dilution	Pre Dilution	Pre-Dil Initial mL	Pre-Dil Final mL	Default Injection mL	Actual Injection mL	Date
10J0697-01 [SUMMA-1]	B021295	1	1	N/A	1000	400	200	10/24/10

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QUALITY CONTROL

Air Toxics by EPA Compendium Methods - Quality Control

Analyte	ppbv Results	ppbv RL	ug/m3 Results	ug/m3 RL	Spike Level ppbv	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch B021295 - TO-15 Prep											
Blank (B021295-BLK1)					Prepared & Analyzed: 10/24/10						
Benzene	ND	0.025									
Bromomethane	ND	0.025									
Carbon Tetrachloride	ND	0.025									
Chlorobenzene	ND	0.025									
Chloroethane	ND	0.025									
Chloroform	ND	0.025									
Chloromethane	ND	0.025									
1,2-Dibromoethane (EDB)	ND	0.025									
1,2-Dichlorobenzene	ND	0.025									
1,3-Dichlorobenzene	ND	0.025									
1,4-Dichlorobenzene	ND	0.025									
Dichlorodifluoromethane (Freon 12)	ND	0.025									
1,1-Dichloroethane	ND	0.025									
1,2-Dichloroethane	ND	0.025									
1,1-Dichloroethylene	ND	0.025									
cis-1,2-Dichloroethylene	ND	0.025									
1,2-Dichloropropane	ND	0.025									
cis-1,3-Dichloropropene	ND	0.025									
trans-1,3-Dichloropropene	ND	0.025									
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.025									
Ethylbenzene	ND	0.025									
Hexachlorobutadiene	ND	0.025									
Methylene Chloride	ND	0.050									
Styrene	ND	0.025									
1,1,2,2-Tetrachloroethane	ND	0.025									
Tetrachloroethylene	ND	0.025									
Toluene	ND	0.025									
1,2,4-Trichlorobenzene	ND	0.025									
1,1,1-Trichloroethane	ND	0.025									
1,1,2-Trichloroethane	ND	0.025									
Trichloroethylene	ND	0.025									
Trichlorofluoromethane (Freon 11)	ND	0.025									
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.025									
1,2,4-Trimethylbenzene	ND	0.025									
1,3,5-Trimethylbenzene	ND	0.025									
Vinyl Chloride	ND	0.025									
m&p-Xylene	ND	0.050									
o-Xylene	ND	0.025									
Surrogate: 4-Bromofluorobenzene (1)	*7.50*				*8.00*		*93.8*	*70-130*			

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QUALITY CONTROL

Air Toxics by EPA Compendium Methods - Quality Control

Analyte	ppbv Results	ppbv RL	ug/m3 Results	ug/m3 RL	Spike Level ppbv	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch B021295 - TO-15 Prep											
LCS (B021295-BS1)					Prepared & Analyzed: 10/24/10						
Benzene	4.44				5.00		88.9	70-130			
Bromomethane	3.98				5.00		79.5	70-130			
Carbon Tetrachloride	4.39				5.00		87.8	70-130			
Chlorobenzene	4.22				5.00		84.3	70-130			
Chloroethane	4.98				5.00		99.6	70-130			
Chloroform	4.13				5.00		82.7	70-130			
Chloromethane	4.25				5.00		85.0	70-130			
1,2-Dibromoethane (EDB)	4.24				5.00		84.9	70-130			
1,2-Dichlorobenzene	3.95				5.00		79.0	70-130			
1,3-Dichlorobenzene	4.11				5.00		82.3	70-130			
1,4-Dichlorobenzene	4.00				5.00		80.0	70-130			
Dichlorodifluoromethane (Freon 12)	3.92				5.00		78.4	70-130			
1,1-Dichloroethane	4.32				5.00		86.4	70-130			
1,2-Dichloroethane	4.09				5.00		81.8	70-130			
1,1-Dichloroethylene	4.31				5.00		86.2	70-130			
cis-1,2-Dichloroethylene	4.35				5.00		87.0	70-130			
1,2-Dichloropropane	4.86				5.00		97.2	70-130			
cis-1,3-Dichloropropene	5.10				5.00		102	70-130			
trans-1,3-Dichloropropene	4.49				5.00		89.7	70-130			
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	3.82				5.00		76.5	70-130			
Ethylbenzene	4.23				5.00		84.5	70-130			
Hexachlorobutadiene	3.65				5.00		73.0	70-130			
Methylene Chloride	4.04				5.00		80.8	70-130			
Styrene	4.38				5.00		87.5	70-130			
1,1,2,2-Tetrachloroethane	4.40				5.00		87.9	70-130			
Tetrachloroethylene	4.06				5.00		81.3	70-130			
Toluene	4.26				5.00		85.1	70-130			
1,2,4-Trichlorobenzene	3.59				5.00		71.8	70-130			
1,1,1-Trichloroethane	4.34				5.00		86.8	70-130			
1,1,2-Trichloroethane	4.42				5.00		88.3	70-130			
Trichloroethylene	4.60				5.00		92.1	70-130			
Trichlorofluoromethane (Freon 11)	3.59				5.00		71.8	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	4.09				5.00		81.8	70-130			
1,2,4-Trimethylbenzene	4.30				5.00		86.1	70-130			
1,3,5-Trimethylbenzene	4.22				5.00		84.3	70-130			
Vinyl Chloride	4.77				5.00		95.3	70-130			
m&p-Xylene	8.74				10.0		87.4	70-130			
o-Xylene	4.27				5.00		85.4	70-130			
Surrogate: 4-Bromofluorobenzene (1)	*7.53*				*8.00*		*94.2*	*70-130*			

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level

Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
EPA TO-14A in Air	
Benzene	AIHA,FL,NY
Bromomethane	AIHA,FL,NY
Carbon Tetrachloride	AIHA,FL,NY
Chlorobenzene	AIHA,FL,NY
Chloroethane	AIHA,FL,NY
Chloroform	AIHA,FL,NY
Chloromethane	AIHA,FL,NY
1,2-Dichlorobenzene	AIHA,FL,NY
1,3-Dichlorobenzene	AIHA,FL,NY
1,4-Dichlorobenzene	AIHA,FL,NY
Dichlorodifluoromethane (Freon 12)	AIHA,FL,NY
1,1-Dichloroethane	AIHA,FL,NY
1,2-Dichloroethane	AIHA,FL,NY
1,1-Dichloroethylene	AIHA,FL,NY
cis-1,2-Dichloroethylene	AIHA,FL,NY
1,2-Dichloropropane	AIHA,FL,NY
cis-1,3-Dichloropropene	AIHA,FL,NY
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	AIHA,FL,NY
Ethylbenzene	AIHA,FL,NY
Hexachlorobutadiene	AIHA,FL,NY
Methylene Chloride	AIHA,FL,NY
Styrene	AIHA,FL,NY
1,1,2,2-Tetrachloroethane	AIHA,FL,NY
Tetrachloroethylene	AIHA,FL,NY
Toluene	AIHA,FL,NY
1,2,4-Trichlorobenzene	AIHA,FL,NY
1,1,1-Trichloroethane	AIHA,FL,NY
1,1,2-Trichloroethane	AIHA,FL,NY
Trichloroethylene	AIHA,FL,NY
Trichlorofluoromethane (Freon 11)	AIHA,FL,NY
1,2,4-Trimethylbenzene	AIHA,FL,NY
1,3,5-Trimethylbenzene	AIHA,FL,NY
Vinyl Chloride	AIHA,FL,NY
m&p-Xylene	AIHA,FL,NY
o-Xylene	AIHA,FL,NY

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The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	American Industrial Hygiene Association	100033	01/1/2012
MA	Massachusetts DEP	M-MA100	06/30/2011
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2011
NY	New York State Department of Health	10899 NELAP	04/1/2011
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2011
RI	Rhode Island Department of Health	LAO00112	12/30/2010
NC	North Carolina Div. of Water Quality	652	12/31/2010
NJ	New Jersey DEP	MA007 NELAP	06/30/2011
FL	Florida Department of Health	E871027 NELAP	06/30/2011
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2011
WA	State of Washington Department of Ecology	C2065	02/23/2011

con-test® ANALYTICAL LABORATORY
Phone: 413-525-2332
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Email: info@contestlabs.com
www.contestlabs.com

AIR SAMPLE CHAIN OF CUSTODY RECORD

39 SPRUCE ST
EAST LONGMEADOW, MA 01028

Page 1 of 1

Company Name: R+C FORMATION LTD
Address: 705 BEDFORD AVE SUITE 2B
BELLMORE, NY 11710
Attention: BOB CASSON
Project Location: EAST NORTHPORT, NY
Sampled By: PHIL MOFFEE

Telephone: (516) 797-7330
Project #
Client PO #

DATA DELIVERY (check one):
☐ FAX ☒ EMAIL ☐ WEBSITE CLIENT
Fax #: 516 797-7330
Email: rcasson@rcformationltd.com
Format: ☐ EXCEL ☒ PDF ☐ GIS KEY ☐ OTHER___

Proposal Provided? (For Billing purposes)
☐ yes _____ proposal date

Please fill out completely, sign and retain the yellow copy for your records.

Summa canisters and flow controllers must be returned within 14 days of receipt or rental fees will apply.

Summa canisters will be retained for a minimum of 14 days after sampling date prior to cleaning.

Field ID	Sample Description	Media	Lab # 1050697	Date Sampled Start Date Time	Date Sampled Stop Date Time	Total Minutes Sampled	Flow Rate M³/Min. or L/Min.	Volume Liters or M³	Matrix Code*	ANALYSIS REQUESTED: TO-14A				" Hg Initial pressure	" Hg Final pressure	" Hg Lab Receipt pressure	Summa Canister ID	Flow Controller ID
Summa	AIR, LFG	S	-01	10/20/10 1200	10/20/10 1204	4			SG	X				30	0	-1	BC1138	BC503

Laboratory Comments:

CLIENT COMMENTS:

Relinquished by: (signature)	Date/Time: 10/20/10 1430
Received by: (signature)	Date/Time: 10/21/10 12:35
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Turnaround **
☒ 7-Day
☐ 10-Day
☐ Other ___
RUSH *
☐ *24-Hr ☐ *48-Hr
☐ *72-Hr ☐ *4-Day
*Approval Required

Special Requirements
Regulations:
Data Enhancement/RCP? ☐ Y ☐ N
Enhanced Data Package ☐ Y ☐ N
(Surchage Applies)
Required Detection Limits:
Other:

*Matrix Code:
SG= SOIL GAS
IA= INDOOR AIR
AMB=AMBIENT
SS = SUB SLAB
D = DUP
BL = BLANK
O = other

**Media Codes:
S=summa can
TB=tedlar bag
P=PUF
T=tube
F= filter
C=cassette
O = Other

** TURNAROUND TIME STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED BY OUR CLIENT.

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Tracking Detail

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Tracking Number:	1Z07YR139098352766
Status:	Delivered
Delivered On:	10/21/2010 12:35 P.M.
Signed By:	DONATA
Location:	OFFICE
Delivered To:	EAST LONGMEADOW, MA, US
Type:	Package
Service:	GROUND
Weight:	7.00 Lbs

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Phone: 1-413-525-2332
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AIR ONLY RECEIPT CHECKLIST

CLIENT NAME: R+C Formation Ltd
RECEIVED BY: CB DATE: 10/21/10

1. Was chain of custody relinquished and signed? YES NO
2. Does Chain agree with samples? YES NO

If not, explain:

3. All Samples in good condition? YES NO

If not, explain:

4. Are there any on hold samples? YES NO STORED WHERE:
5. ARE THERE ANY RUSH OR SHORT HOLDING TIME SAMPLES? WHO WAS NOTIFIED?_____ DATE_____ TIME_____

Location where samples are stored: Air Lab

Permission to sub-contract samples? Yes No (circle)
(Walk in clients only) if not already approved.
Client Signature

CONTAINERS SENT TO CON-TEST	# of containers
Summa cans	1
Tedlar Bags	
Regulators	1
Restrictors	
Tubes	
Other	

1. Was all media (used & unused) checked into the WASP asset management program?
2. Were all returned summa cans, restrictors, & regulators documented as returned in the AIR Lab Outbound excel sheet?
3. Were the Lab ID's documented in the Air Lab Outbound excel sheet?
4. Was the job documented in the Air Lab Log-In Access Database?

Laboratory comments:

APPENDIX 3

Landfill Gas Control Well Vacuum Data
East Northport Landfill, East Northport, New York
for period of record between January, 2006 and October, 2010

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

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 October, 2010

Well	8/07	9/07	10/07	11/07	12/07	1/08	2/08	3/08	4/08	5/08	6/08	7/08	8/08	9/08	10/08	11/08	12/08	1/09	2/09
CWI-4	-2.6	-2.5	-2.5	-3.1	-3.0	-2.9	-3.7	-3.7	-1.8	-3.4	-1.8	-2.1	-1.6	-1.9	-1.2	-1.4	0.0	-3.0	-2.8
CWI-5	-2.7	-2.8	-2.7	-3.0	-3.5	-3.1	-3.7	-3.5	-3.0	-2.9	-1.8	-2.3	-1.9	-2.1	-1.3	-1.4	0.0	-3.4	-2.8
CWI-6	-2.6	-2.2	-2.4	-2.9	-3.4	-3.2	-3.3	-3.4	-3.1	-2.9	-1.9	-2.4	-1.8	-2.1	-1.3	-1.2	-0.1	-3.6	-3.0
CWI-7	-2.5	-2.5	-2.4	-2.5	-3.1	-3.0	-3.7	-3.3	-2.7	-2.3	-1.8	-2.4	-1.8	-2.0	-1.1	-0.6	NA	-3.6	-2.9
CWII-1	-2.3	-1.5	-2.4	-2.4	-3.0	-2.9	-4.1	-3.2	-2.6	-2.6	-1.7	-2.4	-1.7	-2.0	-1.2	-1.1	-0.1	-3.5	-2.9
CWII-2	-2.3	-2.3	-2.4	-2.5	-3.5	-2.9	-3.2	-3.6	-2.6	-2.5	-1.6	-2.4	-1.7	-2.0	-1.2	-1.6	-0.1	-3.0	-2.8
CWII-3	-2.3	-2.4	-2.3	-2.4	-2.9	-2.9	-3.7	-3.1	-3.1	-2.3	-1.7	-2.7	-1.6	-2.0	-1.1	-0.9	-0.1	-3.6	-2.7
CWII-4	-3.2	-2.1	-2.2	-2.3	-3.6	-2.9	-1.8	-3.5	-2.5	-2.1	-1.6	-2.4	-1.6	-1.9	-1.1	-1.1	NA	-3.4	-2.7
CWII-5	-2.2	-2.4	-2.2	-2.6	-3.5	-2.9	-3.0	-3.1	-2.8	-2.4	-1.6	-2.5	-1.6	-1.9	-1.1	-1.0	-0.2	-3.5	-2.7
CWII-6	-1.6	-1.5	-1.5	-1.3	-0.2	-2.0	-1.2	-2.2	-1.6	-1.7	-1.2	0.0	-1.6	-1.6	-0.7	-0.8	NA	0.0	-1.6
CWII-7	-1.2	-1.1	-1.2	-1.1	-0.3	-1.5	-1.2	-1.7	-1.2	-1.3	-0.9	0.0	-1.2	-1.1	-0.7	-0.6	-0.2	0.0	-1.2
CWII-8	0.0	0.0	-0.1	0.0	0.0	0.0	-0.1	0.0	0.0	-0.1	-0.1	-0.1	0.0	0.0	-0.1	0.0	-0.1	0.0	0.0
CWII-9	-0.2	-0.9	-0.9	-0.9	-0.6	-1.1	-0.2	-0.2	-0.9	-0.9	-0.6	0.0	-0.6	-0.8	-0.6	-0.5	-0.2	0.0	-0.9
NW-1	-2.6	-2.4	-2.5	-2.5	-2.9	-2.8	-3.0	-3.1	-2.7	-2.8	-1.6	-1.9	-1.8	-1.9	-1.1	-1.2	-1.6	-2.9	-2.6
NW-2	-2.8	-1.7	-2.9	-3.1	-3.3	-3.1	-3.4	-3.8	-2.9	-3.2	-2.1	-2.4	-1.7	-2.0	-1.1	-0.8	-1.4	-3.1	-3.4
NW-3	-2.5	-2.0	-2.4	-2.5	-2.8	-2.7	-4.3	-3.1	-2.7	-2.1	-1.8	-2.1	-1.3	-1.8	-1.1	-0.7	-1.0	-2.7	-2.7
NW-4	-2.2	-2.2	-2.3	-2.2	-2.6	-2.4	-3.4	-2.8	-3.1	-2.9	-1.6	-1.9	-1.5	-1.7	-1.0	-1.0	-0.9	-2.3	-2.4
NW-5	-1.8	-1.8	-1.9	-2.0	-2.1	-2.1	-2.5	-2.2	-2.2	-0.9	-1.4	-1.6	-1.2	-1.5	-0.8	-0.6	-1.2	-2.1	-2.0
NW-6	-1.8	-1.8	-1.9	-2.2	-2.2	-2.1	-2.4	-2.4	-2.1	-2.1	-1.3	-1.6	-1.2	-1.4	-0.9	-0.7	-1.3	-2.3	-2.0
Ext-1	-0.1	0.0	0.0	-0.1	-0.1	-2.1	-0.1	-0.1	0.0	-0.1	0.0	-0.1	-1.1	0.0	0.0	-0.1	-0.4	0.0	-0.1
Ext-2	-0.7	-0.8	-0.7	-0.7	-0.9	-0.9	-1.0	-1.0	-0.9	-2.2	-0.9	-0.7	-1.0	-0.5	-0.5	-0.4	-0.7	-0.9	-0.8
Ext-3	-2.1	-2.0	-1.9	-1.9	-2.3	-2.2	-2.6	-2.7	-2.2	-2.2	-1.6	-1.7	-0.6	-1.4	-0.9	-0.7	-0.3	-2.1	-2.0
Ext-4	-1.9	-1.9	-2.2	-1.9	-2.2	-2.1	-2.4	-2.3	-1.9	-2.0	-1.4	-1.1	-1.7	-1.5	-0.9	-0.6	-1.1	-2.0	-1.8
Ext-5	-1.6	-1.5	-1.7	-1.5	-1.9	-1.8	-2.0	-2.1	-1.8	-1.8	-1.1	-0.4	-0.9	-1.2	-0.8	-1.0	-1.4	-1.8	-1.5
N-1	-0.3	-0.2	-0.2	-0.2	-0.2	-0.1	-0.3	-0.2	-0.2	-0.1	-0.3	-0.2	-0.2	-0.2	NA	NA	NA	NA	-0.2
N-2	-0.6	-0.5	-0.7	-0.6	-0.6	-0.6	NA	-0.4	-0.6	-0.7	-0.5	-0.5	-0.6	-0.5	-0.3	-0.5	-0.3	-0.7	-0.7
N-3	-0.2	-0.1	-0.2	0.0	-0.2	-0.1	-0.2	-0.1	-0.1	-0.1	-0.1	-0.3	-0.1	-0.1	-0.2	-0.1	-0.2	-0.2	-0.1
N-4	-0.1	-0.1	-0.1	0.0	-0.2	-0.1	-0.2	0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.2	-0.1	NA	-0.2	-0.1
N-5	-0.1	-0.1	-0.2	0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.2	-0.2	-0.1	-0.2	-0.1	-0.2	-0.1	NA	-0.2	-0.1
N-6	-0.9	-0.8	-0.9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	-0.8	NA	NA	NA	-0.1	-0.8
BS-1	-5.6	0.3	-4.4	-4.7	-5.1	-4.5	-5.0	-5.2	-4.2	-4.8	-2.8	-3.2	0.1	-3.0	-1.7	-21.7	0.1	-4.1	0.5

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 October, 2010

Well	3/09	4/09	5/09	6/09	7/09	8/09	9/09	10/09	11/09	12/09	1/10	2/10	3/10	4/10	5/10	6/10	7/10	8/10	9/10
CWI-4	-2.5	-2.6	-2.6	-2.9	-2.5	-1.8	-2.3	-2.1	-2.0	-0.75	-0.73	NA	-0.98	-0.60	-0.63	-0.65	-0.76	-0.75	-0.76
CWI-5	-2.7	-1.9	-1.9	-3.3	-2.6	-2.6	-2.4	-2.3	-2.0	-8.60	-1.00	-0.78	-1.13	-0.64	-0.69	-0.70	-0.82	-0.82	-0.82
CWI-6	-2.8	-2.8	-2.8	-3.3	-2.5	-2.6	-2.4	-2.1	-1.8	-8.70	NA	-0.76	-1.18	-0.57	-0.68	-0.69	NA	-0.80	-0.82
CWI-7	-2.7	-2.0	-2.0	-3.4	-2.5	-2.4	-2.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CWII-1	0.0	-2.7	-2.7	-3.2	-2.5	-2.3	-2.1	-2.0	-2.1	-2.00	-0.84	-0.71	-1.16	-0.59	-0.63	-0.62	-0.71	-0.67	-0.71
CWII-2	-2.5	-2.1	-2.1	-3.0	-2.9	-2.2	-2.1	-1.9	-2.0	-1.90	-0.81	-0.68	-1.12	-0.56	-0.59	-0.60	-0.69	-0.67	-0.70
CWII-3	-2.6	-3.0	-3.0	-3.0	-2.6	-2.4	-2.1	-1.9	-1.8	-1.90	-0.86	-0.69	-1.17	-0.58	-0.60	-0.61	-0.04	-0.69	-0.72
CWII-4	-2.6	-3.1	-3.1	-4.0	-2.6	-2.0	-2.1	-2.8	-2.5	-2.34	-0.84	-0.68	-0.12	-0.57	-0.58	-0.60	-0.68	-0.66	-0.70
CWII-5	-2.6	-2.5	-2.5	-3.4	-2.4	-2.2	-2.1	-1.8	-1.6	-1.81	-0.84	-0.68	NA	-0.57	-0.59	-0.61	-0.69	-0.67	-0.71
CWII-6	-1.9	NA	NA	NA	NA	NA	-1.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CWII-7	-1.5	-2.2	-2.2	0.0	-1.4	-1.5	-1.2	-1.0	-1.0	-1.11	0.00	-0.35	-0.02	-0.32	-0.32	-0.35	-0.45	-0.43	-0.46
CWII-8	0.0	-0.2	-0.2	0.0	-0.1	-0.1	0.0	0.0	0.0	-0.20	0.00	0.00	0.00	0.00	0.00	-0.02	-0.30	0.00	-0.03
CWII-9	-1.0	-1.0	-1.0	-0.1	-1.0	-1.0	-0.9	-0.6	-0.3	-0.20	-0.03	0.00	-0.02	-2.20	-0.04	-0.26	0.00	-0.29	-0.10
NW-1	-2.3	-2.6	-2.6	-2.7	-2.3	-3.4	-2.0	-2.0	-1.8	NA	-0.73	-0.23	-0.97	-0.59	-0.63	-0.63	-0.76	-0.50	-0.75
NW-2	-2.7	-2.8	-2.8	-2.3	-2.6	-2.6	-2.4	-2.1	-2.0	-0.60	-0.80	-0.42	-1.08	-0.64	-0.70	-0.53	-0.53	-0.85	-0.83
NW-3	-2.3	-2.2	-2.2	-2.7	-2.3	-2.2	-2.2	0.0	0.0	0.00	-0.72	-0.40	-1.01	-0.58	-0.62	-0.53	-0.76	-0.77	-0.72
NW-4	-2.1	-2.2	-2.2	-2.5	-2.2	-2.1	-2.0	0.0	-0.1	-0.12	-0.65	-0.50	-0.89	-0.54	-0.55	-0.54	-0.68	-0.66	-0.64
NW-5	-1.8	-2.1	-2.1	-2.0	-1.8	-1.8	-1.6	0.0	-0.1	-0.70	-0.56	-0.51	-0.74	-0.43	-0.45	-0.50	-0.55	-0.56	-0.52
NW-6	-1.8	-1.2	-1.2	-2.1	-1.8	-1.9	-1.7	-0.1	0.0	NA	-0.55	-0.39	-0.78	-0.41	-0.46	-0.51	-0.09	-0.59	-0.53
Ext-1	-0.1	-1.0	-1.0	-0.2	-1.6	-1.7	-0.1	0.0	0.0	-0.06	-0.05	0.00	0.02	0.00	-0.01	-0.02	-0.51	-0.02	0.00
Ext-2	-0.8	-0.8	-0.8	-1.0	-1.8	-0.9	-0.7	-0.1	0.0	-0.24	-0.20	-0.20	-0.38	-0.20	-0.21	-0.23	-0.50	-0.26	-0.23
Ext-3	-1.9	-1.2	-1.2	-2.1	-1.9	-0.1	-1.6	-0.1	-0.1	-0.56	-0.54	-0.49	-0.75	-0.44	-0.46	-0.49	-0.57	-0.58	-0.51
Ext-4	-1.9	-1.8	-1.8	-2.0	-0.8	-1.7	-1.4	-0.1	-0.1	-0.57	-0.52	-0.43	-0.74	-0.44	-0.45	-0.48	-0.57	-0.56	-0.47
Ext-5	-1.9	-0.8	-0.8	-1.6	0.0	-1.5	-1.4	-0.1	-0.1	-0.41	-0.46	-0.39	-0.64	-0.39	-0.40	-0.43	-0.50	-0.50	-0.12
N-1	-0.3	-0.3	-0.3	NA	-0.2	-0.2	-0.1	-0.1	NA	-0.72	-0.09	-0.60	NA	0.00	0.00	-0.03	-0.02	-0.05	-0.25
N-2	-0.6	-0.6	-0.6	-0.4	-0.4	-0.5	-0.7	-0.4	-0.5	-0.80	-0.07	-0.04	NA	0.00	-0.02	-0.03	-0.03	-0.05	-0.15
N-3	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	0.0	0.0	-0.73	-0.06	-0.04	-0.08	-0.02	-0.03	-0.03	-0.03	-0.02	-0.04
N-4	-0.1	-0.2	-0.2	-0.1	-0.2	-0.3	-0.2	0.0	0.0	-0.64	-0.06	NA	-0.07	0.00	-0.02	-0.03	-0.02	-0.02	-0.04
N-5	-0.1	-0.2	-0.2	-0.1	-1.0	-0.1	-0.1	0.0	0.0	-0.55	-0.06	-0.05	-0.07	0.00	-0.02	-0.04	-0.02	-0.02	-0.05
N-6	-1.0	-1.2	-1.2	-0.1	-0.2	-1.0	-0.8	NA	NA	-0.53	NA	NA	NA	NA	NA	NA	NA	NA	-0.31
BS-1	-4.1	-3.9	-3.9	-0.3	-4.0	-5.0	-3.9	-4.0	-3.2	-1.21	-1.35	-1.21	-1.56	-1.00	-0.12	-1.12	-1.44	-1.43	-1.43

Measured in inches of H20

NA - Not Available

Landfill Gas Control Well Vacuum Data
East Northport Landfill, East Northport, New York
East Northport Landfill, East Northport, New York
for period of record between January, 2006 and October, 2010

Well	10/10																		
CWI-4	-0.78																		
CWI-5	-0.55																		
CWI-6	-0.16																		
CWI-7	-0.85																		
CWII-1	-0.79																		
CWII-2	-0.72																		
CWII-3	-0.71																		
CWII-4	-0.74																		
CWII-5	-0.72																		
CWII-6	-0.73																		
CWII-7	-0.40																		
CWII-8	-0.02																		
CWII-9	-0.29																		
NW-1	-0.80																		
NW-2	-0.88																		
NW-3	-0.78																		
NW-4	-0.20																		
NW-5	-0.55																		
NW-6	-0.57																		
Ext-1	-0.21																		
Ext-2	0.00																		
Ext-3	-0.52																		
Ext-4	-0.18																		
Ext-5	-0.40																		
N-1	-0.33																		
N-2	-0.15																		
N-3	-0.02																		
N-4	-0.02																		
N-5	-0.02																		
N-6	-0.29																		
BS-1	-1.46																		

Measured in inches of H20

NA - Not Available