

July 7, 2015

Mr. Ed Rawski, P.E.  
Pennsylvania Department of Environmental Protection  
Bureau of Waste Management  
909 Elmerton Avenue  
Harrisburg, PA 17110-8200

RE: Creswell Landfill GCMP; BWM Permit #100008

Dear Mr. Rawski:

Submitted herein is the data associated with the Gas Control and Monitoring Plan (GCMP) for the above referenced facility for the 2<sup>nd</sup> Quarter 2015.

Attached, and included by reference are the following:

- **Attachment A**

Four (4) sheets containing a total of eleven (11) charts which depict historic results for the peripheral landfill gas monitoring wells and probes. As indicated, we continue to measure 0% methane in landfill perimeter locations.

- **Attachment B**

Contains quarterly results of the site perimeter locations monitored for percent L.E.L.

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In summary:

**Field Data**

- Samples taken from wells were analyzed for methane, carbon dioxide, oxygen, and “balance” (usually inferred to mean nitrogen) gases. “Balance” results, as always, are reported as a calculation based upon the measured values of the three (3) other landfill gas constituents.

We will continue quarterly GCMP monitoring and reporting with our next routine event (3<sup>rd</sup> Quarter 2015) currently scheduled to be completed in September. Feel free to call if you have any questions or comments.

Sincerely,

A handwritten signature in black ink that reads "Daniel A. Brown".

Daniel A. Brown  
Environmental & Sustainability Coordinator

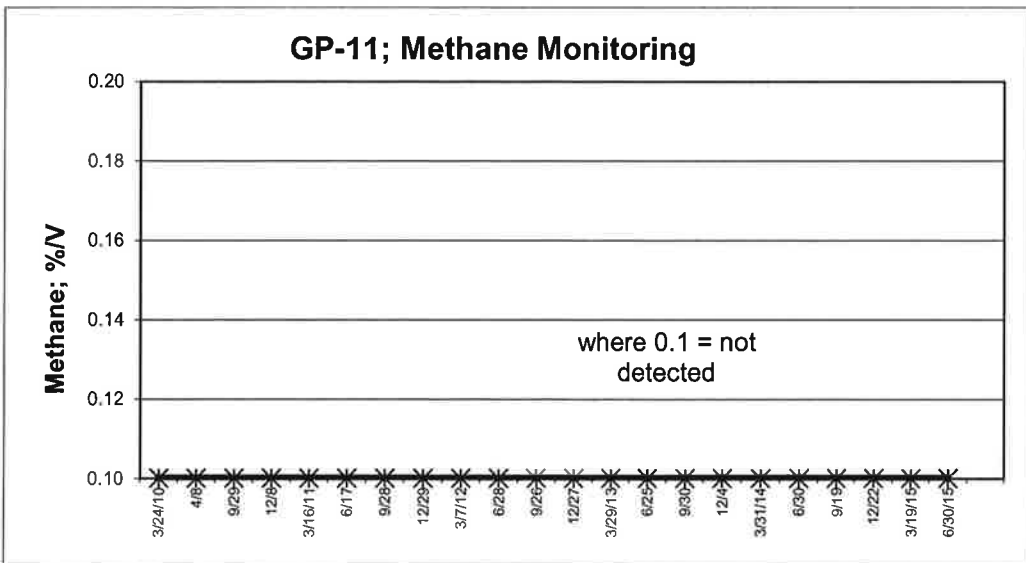
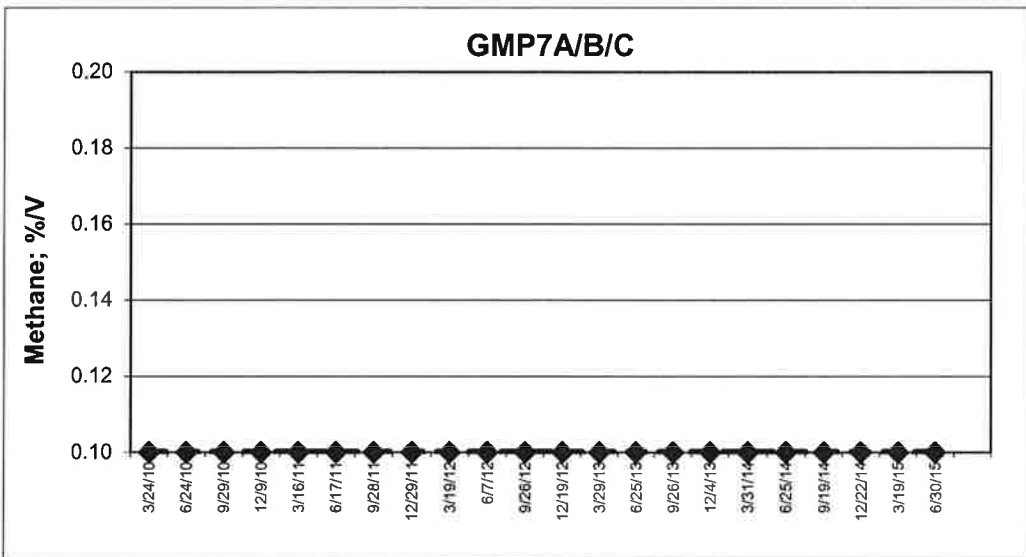
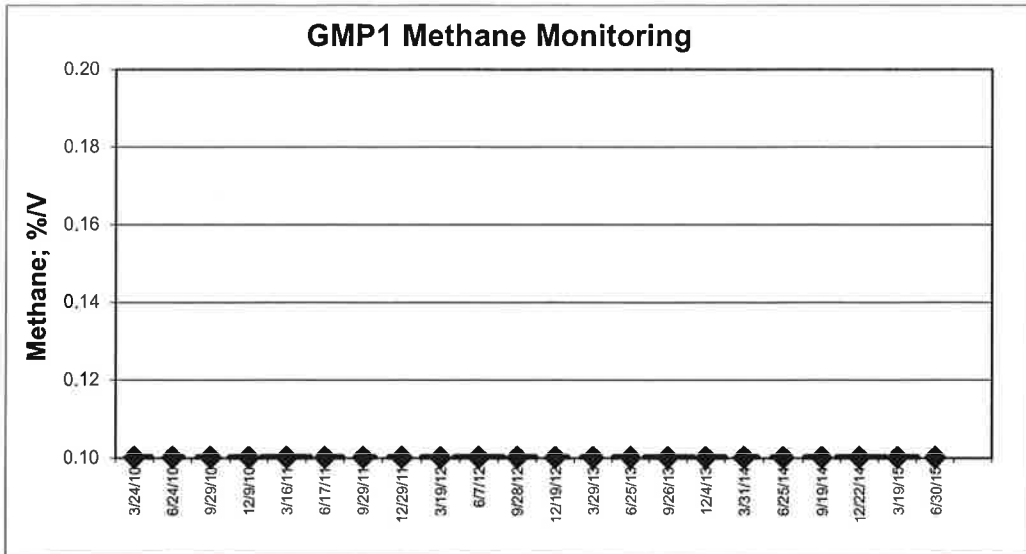
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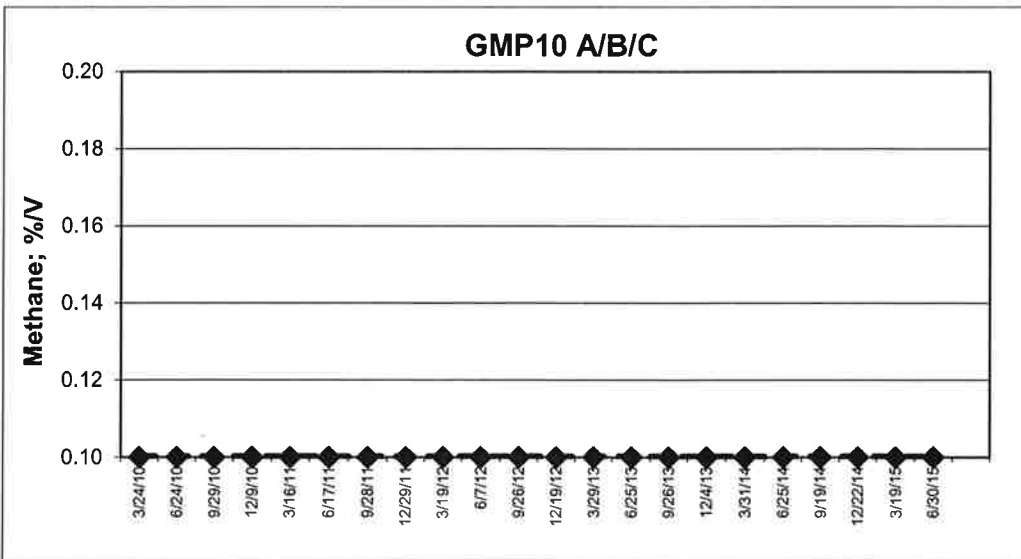
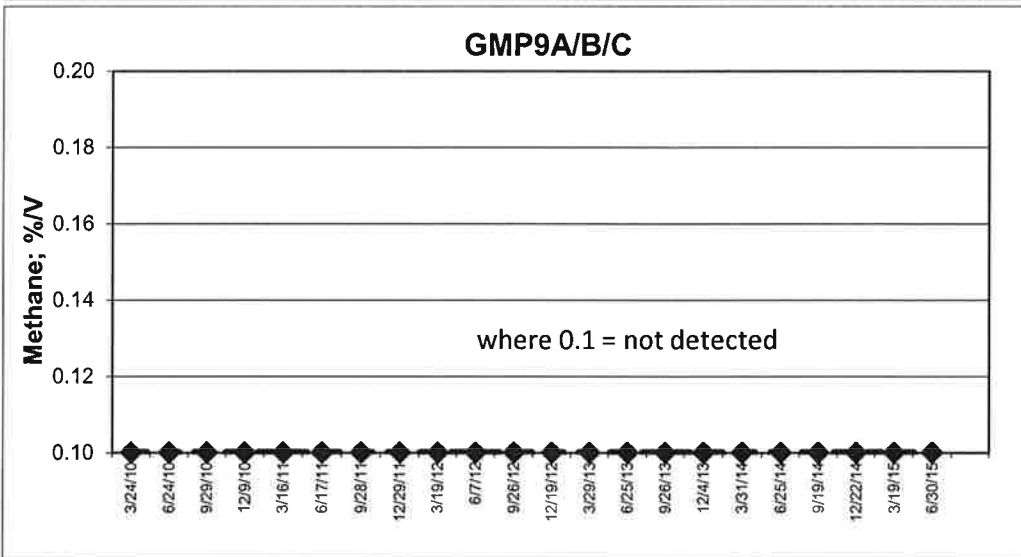
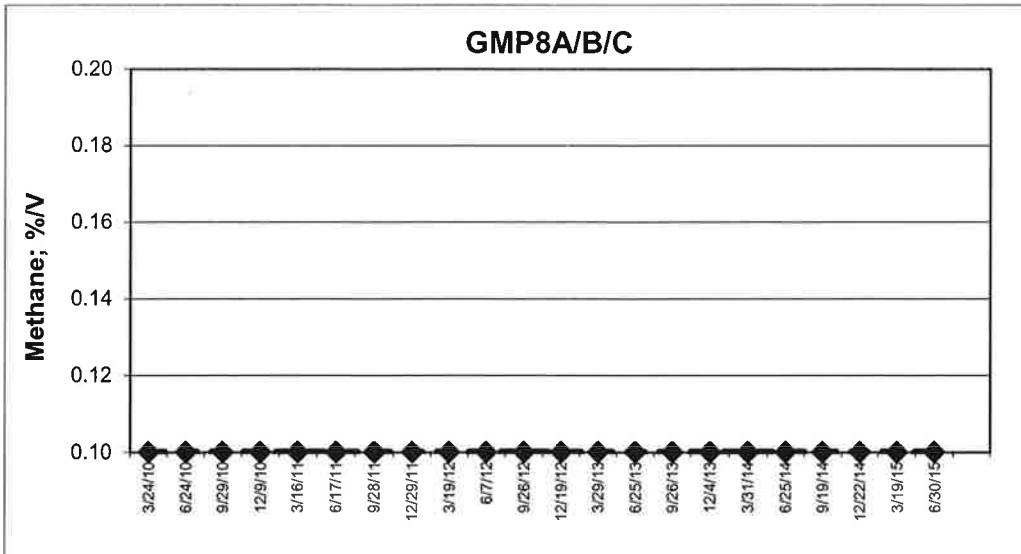
cc: Bob Zorbaugh  
Brooks Norris (w/enc.)  
Bob Eshbach (w/enc.)  
Jeff Musser (w/enc.)  
Randy Weiss (PaDEP-Lanc.)

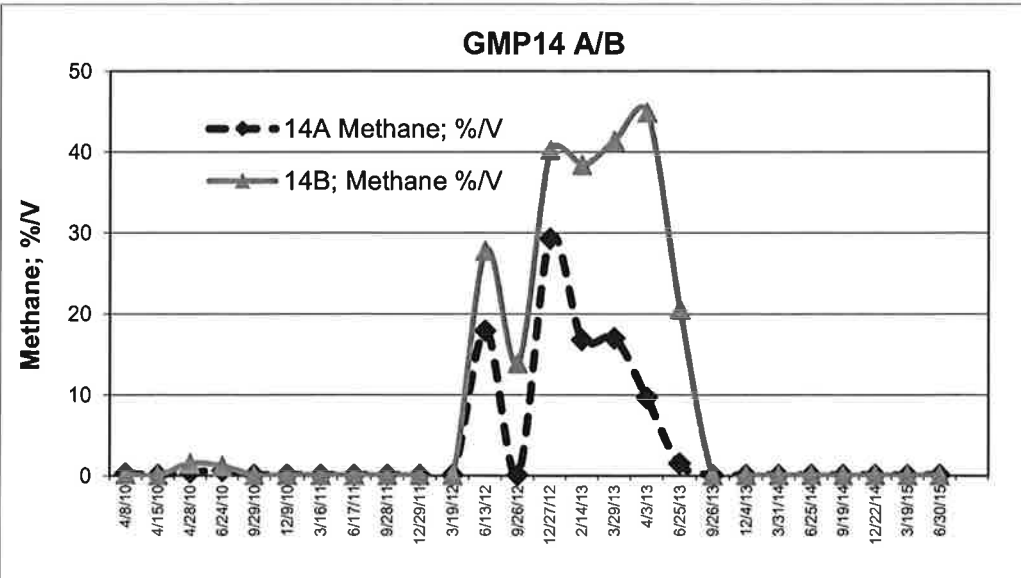
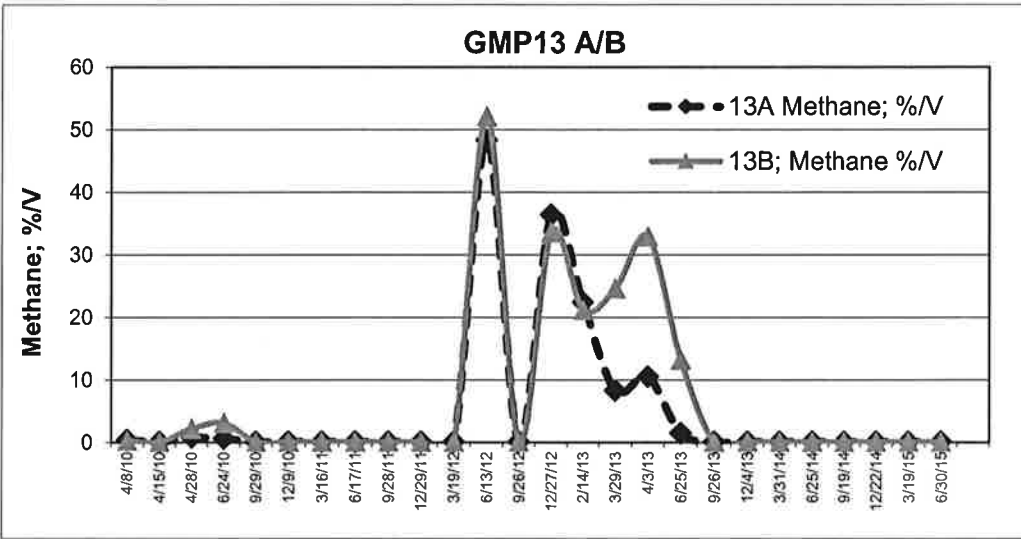
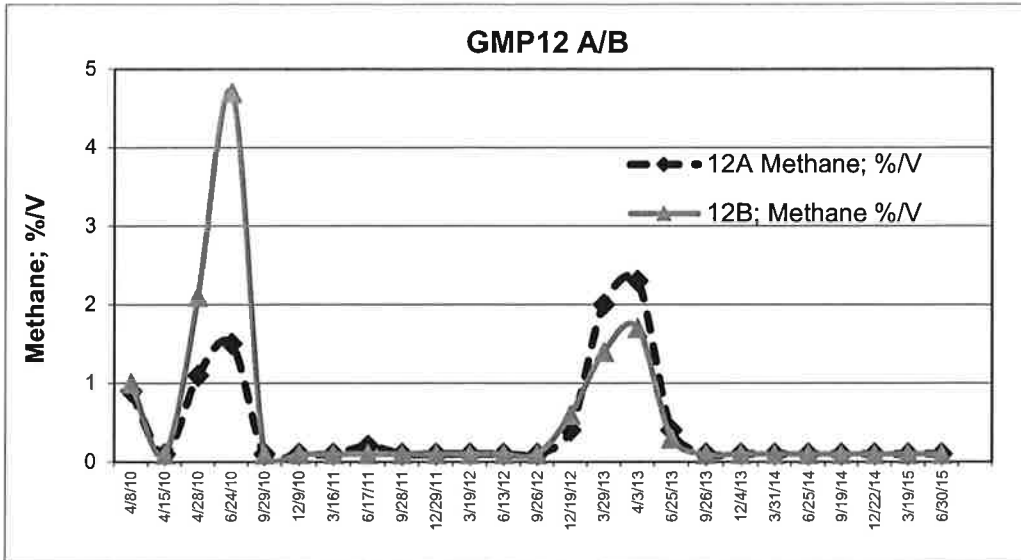
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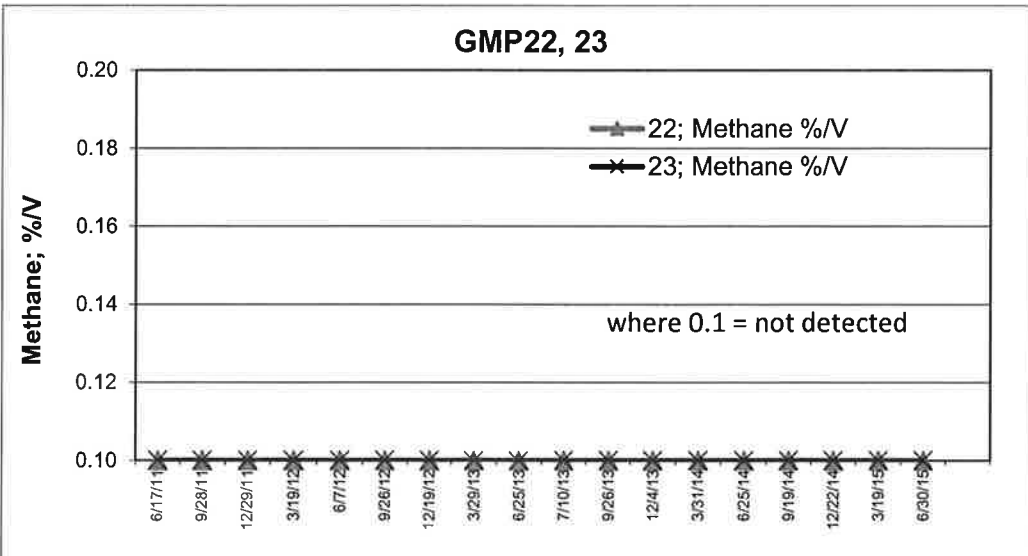
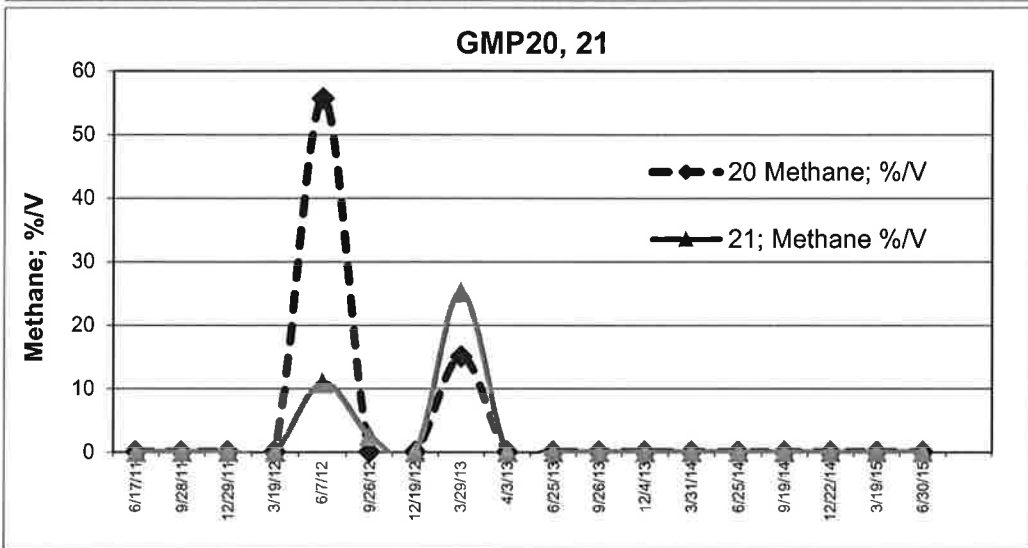
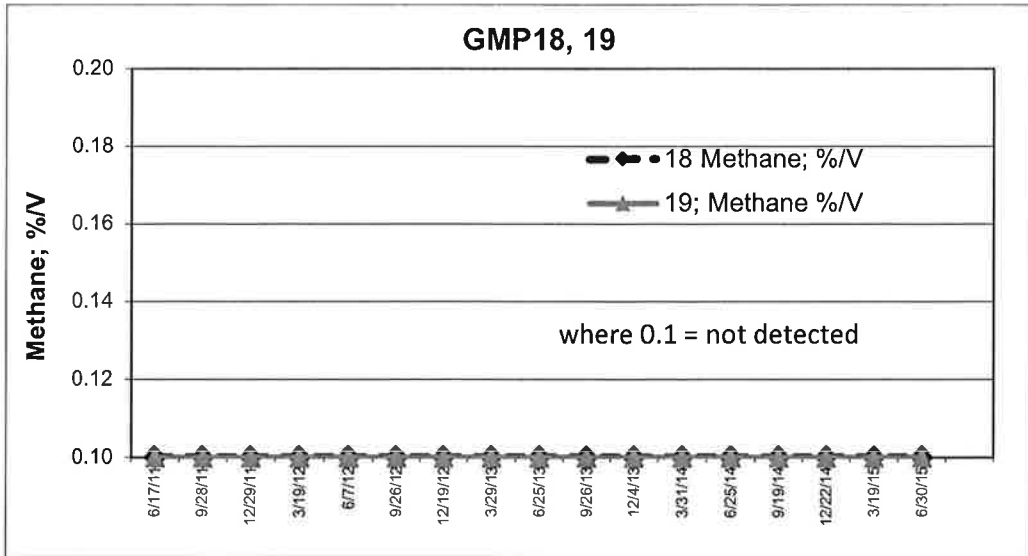
# **ATTACHMENT A**

Graphs; Historic Results  
Peripheral LFG Monitoring Probes









# **ATTACHMENT B**

Quarterly Results  
Percent L.E.L. Monitoring



CRESWELL METHANE MONITORING PROGRAM  
SAMPLE POINT INSPECTION FORM

SAMPLE POINT NUMBER	DESCRIPTION	METHANE LEVEL (as % LEL)			
		DATE 3/18/15	DATE 6/24/15	DATE	DATE
1 to 15	GP WELLS	not included with this monitoring			
16	CONTROL BUILDING LAB	0	0		
17	CONTROL BUILDING COMPRESSOR ROOM	0	0		
18	CONTROL BUILDING LOCKER ROOM	0	0		
19	NTHW PIT	no longer exists			
20	OTHW PIT	0	0		
21	LTS AERATION PIT AT WEATHER STATION #1	0	3		
22	LTS AERATION PIT AT WEATHER STATION #2	0	4		
23	LTS WIRE TRENCH VENTS 1	0	0		
24	LTS WIRE TRENCH VENTS 2	0	0		
25	LTS WIRE TRENCH VENTS 3	no longer exists			
26	PUMP HOUSE	0	0		
27	PUMP HOUSE WET WELL	0	0		
28	MH #1	12	6		
29	MH #2	5	6		
30	INLET; STREAM R PIPE	0	0		
31	OUTLET; STREAM R PIPE	0	0		
32	UPPER END; RAVINE LEACHATE COLLECTION C.O.	no longer exists			
33	SEE MAP	0	0		
34	SEE MAP	0	0		
35	SEE MAP	0	0		
36	SEE MAP	0	0		
37	SEE MAP	0	0		
38	SEE MAP	0	0		
39	SEE MAP	0	0		
40	SEE MAP	0	0		
41	SEE MAP	0	0		
42	SEE MAP	0	0		
43	SEE MAP	0	0		
44	SEE MAP	0	0		
45	SEE MAP	0	0		
46	SEE MAP	0	0		
47	SEE MAP	0	0		
48	SEE MAP	0	0		
49	SEE MAP	0	0		
50	SEE MAP	0	0		
	Atmospheric Pressure (in. Hg)	29.58"	29.51"		
	Air Temperature (Deg. C)	0.8 °C	20.8°C		

Revision Date: June 2011

Revisions: deleted points 62 to 66; added points 81 through 86

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CRESWELL METHANE MONITORING PROGRAM  
SAMPLE POINT INSPECTION FORM

SAMPLE POINT NUMBER	DESCRIPTION	METHANE LEVEL (as % LEL)			
		DATE 3/18/15	DATE 6/24/15	DATE	DATE
51	LTS DISCHARGE MH #1	0	0		
52	LTS DISCHARGE MH #2	0	0		
53	DRAIN PIPE UNDER RAVINE PHASE II	0	0		
54	OLD SCALE HOUSE PIT	no longer monitored			
55	NEW SCALE HOUSE PIT	0	0		
56	LAGOON LINER BALLOON	NA	NA		
57	LEACHATE PIPE LOWER END OF RAVINE	capped; no longer monitored			
58	CWOB092W	0	0		
59	CWOB093A	0	0		
60	CWOB093B (aka CWMP016W)	0	0		
61	CWOB080W (formerly CWMP006W)	0	0		
62	CWGMP002; Gas monitoring probe	abandoned for Soil Borrow Project stockpile			
63	CWGMP04A; Gas monitoring probe				
64	CWGMP04B; Gas monitoring probe				
65	CWGMP06A; Gas monitoring probe				
66	CWGMP06B; Gas monitoring probe				
67	CWGMP08A; Gas monitoring probe	0	0		
68	CWGMP08B; Gas monitoring probe	0	0		
69	CWGMP08C; Gas monitoring probe	0	0		
70	CWGMP10A; Gas monitoring probe	0	0		
71	CWGMP10B; Gas monitoring probe	0	0		
72	CWGMP10C; Gas monitoring probe	0	0		
73	CWO100DW	0	0		
74	CWO100SW	0	0		
75	CWGMP12A; Gas Monitoring Probe	0	0		
76	CWGMP12B; Gas Monitoring Probe	0	0		
77	CWGMP13A; Gas Monitoring Probe	0	0		
78	CWGMP13B; Gas Monitoring Probe	0	0		
79	CWGMP14A; Gas Monitoring Probe	0	0		
80	CWGMP14B; Gas Monitoring Probe	0	0		
81	CWGMP018; Gas Monitoring Probe	0	0		
82	CWGMP019; Gas Monitoring Probe	0	0		
83	CWGMP020; Gas Monitoring Probe	0	0		
84	CWGMP021; Gas Monitoring Probe	0	0		
85	CWGMP022; Gas Monitoring Probe	0	0		
86	CWGMP023; Gas Monitoring Probe	0	0		

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