Weimer, Noreen

From: Novak, Dion
Sent: Tuesday, November 04, 2014 3:10 PM
To: Weimer, Noreen
Subject: FW: Monthly Progress Report (North Sanitary Landfill)
Attachments: MPR232 (May'14) - AOC.pdf

May 2014 monthly

From: Mike Samples [mailto:mikes@demaximis.com]
Sent: Tuesday, June 10, 2014 8:16 AM
To: Novak, Dion; Renninger, Steven
Cc: Scott Glum
Subject: Monthly Progress Report (North Sanitary Landfill)

Gentlemen,

Attached, in .pdf file format, is an electronic copy of the North Sanitary Landfill Monthly Progress Report (MPR). The MPR is reflective of Removal Action activities that were performed during the month of May 2014 in accordance with the U.S. EPA Administrative Order by Consent (AOC). Per the AOC, an official hard copy of this report is also being transmitted to you both via Certified Mail.

Regards,
Mike

Michael H. Samples
de maximis, inc.
450 Montbrook Lane
Knoxville, TN 37919
(865) 691-5052 - Office
(865) 548-1875 - Cell
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Via Electronic
and Certified Mail

June 10, 2014

Mr. Dion Novak
Remedial Project Manager
U. S. Environmental protection Agency
77 W. Jackson Blvd.
Mail Stop SR-6J
Chicago, Illinois 60604

Mr. Steve Renninger
On-Scene Coordinator
U. S. Environmental Protection Agency
26 West Martin Luther King Drive, G-41
Cincinnati, Ohio 45268

Re: Monthly Progress Report #232 – May 2014
North Sanitary Landfill - Dayton, Montgomery County, Ohio

Dear Mr. Novak and Mr. Renninger:

In accordance with Section V, Subsection 2.5, of the Administrative Order by Consent for the North Sanitary Landfill, please find enclosed a summary of site-related activities for May 2014.

Should you have any questions or comments, please do not hesitate to contact me at (865) 691-5052.

Sincerely,
de maximis, inc.

Michael H. Samples
Alternate Project Coordinator

MHS:dlb

Attachments

cc: H. Cole (w/ attachment; via U.S. Mail)
S. Glum (w/ attachment; via U.S. Mail)
T. Hut (w/ attachment; via U.S. Mail)
J. Weatherington-Rice (w/ attachment; via U.S. Mail)
N. Wood-Chi (w/ attachment; via U.S. Mail)
VLSG Distribution (w/ attachments; via e-mail)

PAPER

Monthly Progress Report
Report #232 – May 2014
North Sanitary Landfill
Dayton, Ohio

A. Actions Taken Toward Compliance with the Order

- Operation and monitoring of the landfill gas abatement system (LGAS) was continued;
- The site fence was inspected during the reporting period and any necessary repairs were addressed;
- The second quarter 2014 combustible gas indicator checks were successfully performed on May 15, 2014; and,
- In accordance with notification provided to U.S. EPA on May 8, 2014, the annual flare influent sampling was performed on May 15, 2014.

B/C. Problems Encountered/Actions to Rectify Problems

- None.

D. Changes in Removal Action Activities

- None.

E. Site Data

- Bi-weekly LGAS compliance data summaries for the month of May 2014 are presented in Attachment A of this report.

F. Planned Activities for the Next Reporting Period (June 2014)

- Develop Monthly Progress Report (MPR) #232 summarizing activities in May 2014;
- Report to U.S. EPA the analytical results of the annual flare influent gas sampling;
- Continue LGAS operation and performance monitoring; and,
- Verify that the activity and use limitations remain in place and are in compliance with the Environmental Covenant for the Site.

G. Schedule of Significant Activities and Deliverables (May 2014)

- June 10 - Anticipated submittal of the April 2014 MPR to U.S. EPA.

H. Changes in Personnel during Reporting Period

- None.

I. Significant Correspondence, Telephone Conversations, or Discussions

Communication	Date	Recipient(s)	Subject
dmi e-mail	05/08/14	U.S. EPA	Annual flare influent gas sampling notification; and,
dmi transmittal	05/09/14	U.S. EPA	Monthly Progress Report for the Month of April 2014.

ATTACHMENT A

(BI-WEEKLY LGAS SUMMARIES)

PAPER

R. M. BROYLES COMPANY, L. L. C.

P.O. Box 13154, Dayton, OH 45413 MOB # 937-776-5304 email: rmbcom@woh.rr.com

REPORT COVER PAGE

To: Gary Saylor SCS <gsaylor@scsengineers.com> Pages: 5

From: Mike Broyles <rmbcom@woh.rr.com>

Date: 5/8/2014

Subject: LFG Monitoring Summary - Week of 04/28/14 - 05/04/14

Summary: All CPs remained in compliance this two week period.
There were no (0) flare flame failures due to low methane or other issues.
Flare operating cycles were 180 to 240 mins. ON and 1200 to 1260 mins. OFF.
Bi-Weekly Gas Vent, Extraction & Supplemental Well monitoring was performed May 2, 2014 with temps of 50 to 53°F and overcast conditions.
Vacuum readings were last taken on April 6, 2014.
Valves were open to Legs 1b, 2, 3A, 3B, 4 and 5; and
Wells open were NW 1-8, WC 1 & 4, SW 1 & 2, EW 1-4, 7, 8, 10, 11 & 12.

Flare Operating Hours:

	AM				PM				
Date	on	off	on	off	on	off	on	off	"ON" Hours
4/28/2014	--	--	10:00	--	--	1:00	--	--	3.0
4/29/2014	--	--	10:00	--	--	1:00	--	--	3.0
4/30/2014	--	--	10:00	--	--	1:00	--	--	3.0
5/1/2014	--	--	10:00	--	--	1:00	--	--	3.0
5/2/2014	--	--	9:00	--	--	1:00	--	--	4.0
5/3/2014	--	--	9:00	--	--	1:00	--	--	4.0
5/4/2014	--	--	9:00	--	--	1:00	--	--	4.0
								Total Hrs. =	24.0

Notes: # = Flare shut down during operation.
* = Flare reset to operate full time with propane.
@ = Flare reset to operate full time with methane.
+ = Other reason
Times represent Flare Clock which is currently EST.
Flow rate was 190 - 220 scfm. Temperature range (middle thermocouple) 1520 - 1570° F.

Daily/Weekly Monitoring Times:

Date	Probes/Wells Monitored	Sampling Period	Readings	Barometric Pressure	Trend
4/28/2014	--	--	--	--	--
4/29/2014	--	--	--	--	--
4/30/2014	--	--	--	--	--
5/1/2014	--	--	--	--	--
5/2/2014	CPs, TGP/GPs, GVs/S&Ews	9:00A - 4:00P	0.0	29.89 - 29.91	R
5/3/2014	--	--	--	--	--
5/4/2014	--	--	--	--	--

Notes: CPs = Compliance Probes;
S&EW = Supplemental and Extraction Wells; and
Leg numbers = 1, 1b, 2, 3A, 3B, 4 & 5.
Readings in **BOLD** represent **Compliance Probe (CP)** readings greater than 5.0%
Barometric Pressure represents pressure and range during Sampling Period. Trend: R = rising, F = falling, S = steady

CONFIDENTIALITY NOTE: THIS MESSAGE IS INTENDED ONLY FOR THE INDIVIDUAL/S OR ENTITY/IES TO WHICH IT IS ADDRESSED AND MAY CONTAIN INFORMATION THAT IS PRIVILEGED, CONFIDENTIAL AND EXEMPT FROM DISCLOSURE UNDER APPLICABLE LAW. IF THE READER OF THIS MESSAGE IS NOT THE INTENDED RECIPIENT/S, OR THE EMPLOYEE OR AGENT RESPONSIBLE FOR DELIVERING THE MESSAGE TO THE INTENDED RECIPIENT/S. YOU ARE HEREBY NOTIFIED THAT ANY DISSEMINATION, DISTRIBUTION OR COPYING OF THIS COMMUNICATION IS STRICTLY PROHIBITED. IF YOU HAVE RECEIVED THIS COMMUNICATION IN ERROR, PLEASE NOTIFY R. M. BROYLES COMPANY, L. L. C. IMMEDIATELY BY TELEPHONE AT (937) 690-6985, AND RETURN THE ORIGINAL MESSAGE TO R. M. BROYLES COMPANY, L. L. C. AT THE ABOVE ADDRESS VIA THE U. S. POSTAL SERVICE.

VALLEYCREST COMPLIANCE PROBE REPORT
(% Methane and Oxygen by Volume)

	28-Apr		29-Apr		30-Apr		1-May		2-May		3-May		4-May	
Compliance Probes	CH4	O2	CH4	O2	CH4	O2	CH4	O2	CH4	O2	CH4	O2	CH4	O2
CP1-1R	–	–	–	–	–	–	–	–	0.0	19.4	–	–	–	–
CP1-2	–	–	–	–	–	–	–	–	0.0	17.1	–	–	–	–
CP1-3	–	–	–	–	–	–	–	–	0.0	16.1	–	–	–	–
CP1-4	–	–	–	–	–	–	–	–	0.0	15.6	–	–	–	–
CP1-5	–	–	–	–	–	–	–	–	0.0	16.1	–	–	–	–
CP1-7	–	–	–	–	–	–	–	–	0.0	16.9	–	–	–	–
CP1-9	–	–	–	–	–	–	–	–	0.0	17.2	–	–	–	–
CP1-11	–	–	–	–	–	–	–	–	0.0	18.1	–	–	–	–
CP1-13	–	–	–	–	–	–	–	–	0.0	19.1	–	–	–	–
GP-01 (for CP1-14)	–	–	–	–	–	–	–	–	0.0	19.6	–	–	–	–
GP-02 (for CP1b-1R)	–	–	–	–	–	–	–	–	0.0	19.8	–	–	–	–
CP1b-2R	–	–	–	–	–	–	–	–	0.0	20.0	–	–	–	–
CP1b-4R	–	–	–	–	–	–	–	–	0.0	19.9	–	–	–	–
CP1b-6R	–	–	–	–	–	–	–	–	0.0	19.8	–	–	–	–
TGP1b-E	–	–	–	–	–	–	–	–	0.0	19.7	–	–	–	–
TGP1b-A	–	–	–	–	–	–	–	–	0.0	19.6	–	–	–	–
TGP1b-F	–	–	–	–	–	–	–	–	0.0	19.9	–	–	–	–
TGP1b-B	–	–	–	–	–	–	–	–	0.0	20.1	–	–	–	–
TGP1b-G	–	–	–	–	–	–	–	–	0.0	19.8	–	–	–	–
TGP1b-C	–	–	–	–	–	–	–	–	0.0	19.9	–	–	–	–
TGP1b-H	–	–	–	–	–	–	–	–	0.0	20.0	–	–	–	–
TGP1b-D	–	–	–	–	–	–	–	–	0.0	20.0	–	–	–	–
GP-03	–	–	–	–	–	–	–	–	0.0	19.2	–	–	–	–
TGP-82	–	–	–	–	–	–	–	–	0.0	18.6	–	–	–	–
GP-04	–	–	–	–	–	–	–	–	0.0	19.2	–	–	–	–
TGP-83	–	–	–	–	–	–	–	–	0.0	18.5	–	–	–	–
CP2-1	–	–	–	–	–	–	–	–	0.0	19.3	–	–	–	–
CP2-2	–	–	–	–	–	–	–	–	0.0	19.9	–	–	–	–
CP2-4R	–	–	–	–	–	–	–	–	0.0	17.1	–	–	–	–
CP2-5R	–	–	–	–	–	–	–	–	0.0	18.8	–	–	–	–
CP-6R	–	–	–	–	–	–	–	–	0.0	19.1	–	–	–	–
CP2-7	–	–	–	–	–	–	–	–	0.0	19.6	–	–	–	–
CP2-9	–	–	–	–	–	–	–	–	0.0	19.9	–	–	–	–
TGP-06	–	–	–	–	–	–	–	–	0.0	20.0	–	–	–	–
TGP-East	–	–	–	–	–	–	–	–	0.0	19.9	–	–	–	–
TGP-Dads	–	–	–	–	–	–	–	–	0.0	20.1	–	–	–	–
CP3-1RR	–	–	–	–	–	–	–	–	0.0	19.9	–	–	–	–
CP3-2R	–	–	–	–	–	–	–	–	0.0	19.8	–	–	–	–
CP3-4R	–	–	–	–	–	–	–	–	0.0	20.0	–	–	–	–
CP3-5R	–	–	–	–	–	–	–	–	0.0	19.7	–	–	–	–
CP3-7R	–	–	–	–	–	–	–	–	0.0	20.0	–	–	–	–
CP3-8R	–	–	–	–	–	–	–	–	0.0	19.9	–	–	–	–
CP3-9	–	–	–	–	–	–	–	–	0.0	19.6	–	–	–	–
CP3-10R	–	–	–	–	–	–	–	–	0.0	20.0	–	–	–	–
CP3-12R	–	–	–	–	–	–	–	–	0.0	19.8	–	–	–	–
CP3-13R	–	–	–	–	–	–	–	–	0.0	19.4	–	–	–	–
CP3-14R	–	–	–	–	–	–	–	–	0.0	19.7	–	–	–	–
CP3-15R	–	–	–	–	–	–	–	–	0.0	19.4	–	–	–	–
TGP-89	–	–	–	–	–	–	–	–	0.0	19.6	–	–	–	–
CP4-A	–	–	–	–	–	–	–	–	0.0	19.1	–	–	–	–
CP4-B	–	–	–	–	–	–	–	–	0.0	18.2	–	–	–	–
CP4-C	–	–	–	–	–	–	–	–	0.0	17.1	–	–	–	–
CP4-1	–	–	–	–	–	–	–	–	0.0	16.4	–	–	–	–
CP4-2	–	–	–	–	–	–	–	–	0.0	17.2	–	–	–	–
CP4-3	–	–	–	–	–	–	–	–	0.0	19.6	–	–	–	–
CP4-4	–	–	–	–	–	–	–	–	0.0	18.9	–	–	–	–
CP4-6	–	–	–	–	–	–	–	–	0.0	16.1	–	–	–	–
CP5-1R	–	–	–	–	–	–	–	–	0.0	17.2	–	–	–	–
CP5-3R	–	–	–	–	–	–	–	–	0.0	17.8	–	–	–	–
CP5-4R	–	–	–	–	–	–	–	–	0.0	18.0	–	–	–	–
CP5-6	–	–	–	–	–	–	–	–	0.0	17.1	–	–	–	–
CP5-8	–	–	–	–	–	–	–	–	0.0	16.2	–	–	–	–

Notes: (1) Underline reading assumed to be aberrant based on historical behavior of the monitoring location;

(2) NR = Value not recorded.

(3) NS = Not sampled due to instrument failure or snow cover;

(4) Values in **Bold** Face Type exceed applicable concentration ceilings of 5% methane by volume

(5) Sampling instrument used is a calibrated CES Landtec GEM 2000 or equivalent multi-gas meter.

(6) Per the request of OEPA, Oxygen level readings were added to the Compliance Probe monitoring report table beginning March 5, 2009.

VALLEYCREST COMPLIANCE PROBE REPORT
(% Methane and Oxygen by Volume)

	28-Apr		29-Apr		30-Apr		1-May		2-May		3-May		4-May	
Compliance Probes	CH4	O2	CH4	O2	CH4	O2	CH4	16.3	CH4	O2	CH4	O2	CH4	O2
TGP-76	–	–	–	–	–	–	–	–	0.0	14.9	–	–	–	–
TGP-63	–	–	–	–	–	–	–	–	0.0	15.8	–	–	–	–
TGP-57	–	–	–	–	–	–	–	–	0.0	18.9	–	–	–	–
TGP-62	–	–	–	–	–	–	–	–	0.0	16.8	–	–	–	–
GP-12	–	–	–	–	–	–	–	–	0.0	18.8	–	–	–	–
TGP-60	–	–	–	–	–	–	–	–	0.0	18.1	–	–	–	–
TGP-65	–	–	–	–	–	–	–	–	0.0	19.1	–	–	–	–
TGP-66	–	–	–	–	–	–	–	–	0.0	18.4	–	–	–	–
TGP-67	–	–	–	–	–	–	–	–	0.0	17.6	–	–	–	–
TGP-68	–	–	–	–	–	–	–	–	0.0	16.7	–	–	–	–
TGP-53	–	–	–	–	–	–	–	–	0.0	14.9	–	–	–	–
TGP-59	–	–	–	–	–	–	–	–	0.0	17.1	–	–	–	–
TGP-58	–	–	–	–	–	–	–	–	0.0	17.8	–	–	–	–
GP-14	–	–	–	–	–	–	–	–	0.0	19.4	–	–	–	–
TGP-87	–	–	–	–	–	–	–	–	0.0	19.9	–	–	–	–
TGP-88	–	–	–	–	–	–	–	–	0.0	20.0	–	–	–	–
TGP-89	–	–	–	–	–	–	–	–	0.0	19.9	–	–	–	–
TGP-90	–	–	–	–	–	–	–	–	0.0	18.2	–	–	–	–
GP-17	–	–	–	–	–	–	–	–	0.0	15.9	–	–	–	–
TGP-91	–	–	–	–	–	–	–	–	0.0	18.6	–	–	–	–
GP-16	–	–	–	–	–	–	–	–	0.0	19.1	–	–	–	–
TGP-73	–	–	–	–	–	–	–	–	0.0	19.8	–	–	–	–
TGP-74	–	–	–	–	–	–	–	–	0.0	19.0	–	–	–	–
TGP-84	–	–	–	–	–	–	–	–	0.0	17.2	–	–	–	–
TGP-75	–	–	–	–	–	–	–	–	0.0	16.4	–	–	–	–
TGP-85	–	–	–	–	–	–	–	–	0.0	17.0	–	–	–	–
TGP-72	–	–	–	–	–	–	–	–	0.0	18.5	–	–	–	–
TGP-86	–	–	–	–	–	–	–	–	0.0	17.5	–	–	–	–
TGP-32	–	–	–	–	–	–	–	–	0.0	19.3	–	–	–	–

(1) Underline reading assumed to be aberrant based on historical behavior of the monitoring location;
(2) NR = Value not recorded.
(3) NS = Not sampled due to instrument failure;
(4) Values in **Bold** Face Type exceed applicable concentration ceilings of 5% methane by volume
(5) Sampling instrument used is a calibrated CES Landtec GEM 2000 or equivalent multi-gas meter.
(6) Per the request of OEPA, Oxygen level readings were added to the Compliance Probe monitoring report table beginning March 5, 2009.

VALLEYCREST GAS VENT AND WELL REPORT
(% Gas by Volume)

Week of:	Apr 14- Apr 20						Week of:	Apr 28 - May 4					
Wellhead ID	Vacuum	Temp	CH4	O2	CO2	Bal	Wellhead ID	Vacuum	Temp	CH4	O2	CO2	Bal
LEG 1	–	–	–	–	–	–	**LEG 1**	–	–	–	–	–	–
GV1-1	–	–	4.9	0.4	20	75	GV1-1	–	–	7.7	0.6	22	70
GV1-2	–	60	28.4	2.2	27	42	GV1-2	–	50	26.3	1.1	24	49
GV1-3	–	–	27.3	0.7	29	43	GV1-3	–	–	23.9	1.6	26	49
GV1-4	–	–	30.2	1.3	26	43	GV1-4	–	–	31.1	0.6	28	40
GV1-5	–	–	25.5	0.2	26	48	GV1-5	–	–	28.3	0.0	27	45
GV1-6	–	–	25.3	0.1	26	49	GV1-6	–	–	23.5	0.6	26	50
GV1-7	–	–	0.3	19.9	0.5	79	GV1-7	–	–	0.3	19.5	0.7	80
GV1-8	–	–	10.0	1.9	20	68	GV1-8	–	–	12.8	0.0	22	65
GV1-9	–	–	3.0	8.2	12	77	GV1-9	–	–	8.9	0.0	21	70
GV1-10X	–	–	7.2	0.1	21	72	**GV1-10X**	–	–	8.9	0.4	21	70
GV1-11	–	–	0.7	16.0	2.0	81	GV1-11	–	–	1.1	17.0	2.2	80
GV1-12	–	–	18.5	3.6	17	60	GV1-12	–	–	10.5	2.9	18	69
GV1-13	–	–	5.4	2.0	18	75	GV1-13	–	–	4.9	1.5	17	77
LEG 1b	–	–	–	–	–	–	**LEG 1b**	–	–	–	–	–	–
GV1b-1	–	–	0.4	17.7	2.6	79	GV1b-1	–	–	0.7	15.5	4.2	80
GV1b-2	–	–	0.1	19.4	0.3	80	GV1b-2	–	–	0.1	19.3	0.2	80
GV1b-3	–	–	1.5	19.1	2.2	77	GV1b-3	–	–	0.4	19.9	0.4	79
GV1b-4	–	–	0.4	14.6	4.7	80	GV1b-4	–	–	0.0	13.9	5.6	81
GV1b-5	–	56	0.0	20.6	0.2	79	GV1b-5	–	56	0.0	19.8	0.2	80
LEG 2	–	–	–	–	–	–	**LEG 2**	–	–	–	–	–	–
GV2-1	–	–	1.2	15.8	6	78	GV2-1	–	–	1.4	16.3	5.1	77
GV2-2	–	70	0.1	14.2	7	79	GV2-2	–	60	0.1	14.5	6.5	79
GV2-3	–	70	1.0	6.1	13	80	GV2-3	–	64	3.1	4.1	14	79
GV2-4	–	80	1.1	6.5	13	79	GV2-4	–	72	2.9	2.3	15	80
LEG 3	–	–	–	–	–	–	**LEG 3**	–	–	–	–	–	–
GV3-1	–	–	44.8	0.3	27	28	GV3-1	–	–	51.5	0.0	29	20
GV3-2	–	–	48.6	1.3	25	25	GV3-2	–	–	27.0	3.4	20	50
GV3-3	–	–	5.6	8.1	11	75	GV3-3	–	–	4.0	10.1	10	76
GV3-4	–	80	14.3	1.8	16	66	GV3-4	–	58	11.8	1.6	18	69
GV3-5	–	–	3.0	5.4	11	81	GV3-5	–	–	1.7	6.4	9.4	83
GV3-6	–	–	3.9	2.5	12	82	GV3-6	–	–	4.3	3.7	12	80
GV3-7	–	–	1.2	7.4	10	81	GV3-7	–	–	0.0	16.7	3.7	80
GV3-8	–	–	0.3	13.9	4.2	82	GV3-8	–	–	0.0	14.8	4.9	80
GV3-9	–	–	2.5	5.3	11	81	GV3-9	–	–	0.9	10.4	8.1	81
GV3-10 X	–	–	1.2	4.3	11	84	**GV3-10 X**	–	–	0.5	7.2	10	82
GV3-11	–	–	2.5	1.1	16	80	GV3-11	–	–	1.4	1.2	16	81
GV3-12	–	–	4.5	2.6	15	78	GV3-12	–	–	1.0	5.2	14	80
GV3-13	–	–	5.4	4.5	14	76	GV3-13	–	–	3.1	5.6	14	77
GV3-14	–	–	24.3	0.2	20	56	GV3-14	–	–	15.0	2.9	16	66
LEG 3	–	–	–	–	–	–	**LEG 3**	–	–	–	–	–	–
LEG 4	–	–	–	–	–	–	**LEG 4**	–	–	–	–	–	–
GV4-C	–	72	0.7	1.3	14	84	GV4-C	–	58	0.8	4.0	12	83
GV4-B	–	–	0.2	2.9	12	85	GV4-B	–	–	0.2	7.3	8.5	84
GV4-A	–	–	0.9	16.1	2.8	80	GV4-A	–	–	0.3	17.9	1.9	80
GV4-1	–	–	1.9	18.0	2.4	78	GV4-1	–	–	0.5	18.9	1.1	80
GV4-2	–	–	0.7	15.6	4.9	79	GV4-2	–	–	0.5	16.6	3.6	79
GV4-3	–	–	0.8	15.2	4.4	80	GV4-3	–	–	10.9	3.4	17	69
GV4-4 X	–	–	0.1	20.4	0.2	79	**GV4-4 X**	–	–	0.0	18.6	1.2	80
GV4-5	–	–	6.9	6.4	12	75	GV4-5	–	–	5.7	6.2	11	77
GV4-6	–	–	9.8	1.6	18	71	GV4-6	–	–	7.7	5.4	14	73
GV4-7	–	–	21.6	0.2	24	54	GV4-7	–	–	25.9	0.0	25	49
LEG 5	–	–	–	–	–	–	**LEG 5**	–	–	–	–	–	–
GV5-1	–	80	40.6	0.3	26	33	GV5-1	–	80	40.6	0.0	27	32
GV5-2	–	–	35.2	1.0	24	40	GV5-2	–	–	35.2	0.0	27	38
GV5-3	–	–	5.3	17.5	4.2	73	GV5-3	–	–	1.4	18.3	1.9	78
GV5-4	–	–	3.6	16.1	5.2	75	GV5-4	–	–	0.9	17.6	3.1	78
GV5-5	–	–	0.5	4.2	10	85	GV5-5	–	–	7.8	0.6	17	75
GV5-6	–	–	5.1	16.1	5.3	74	GV5-6	–	–	11.4	8.7	12	68
GV5-7	–	–	4.0	15.8	5.0	75	GV5-7	–	–	6.2	4.1	14	76
GV5-8	–	–	0.0	16.9	1.4	80	GV5-8	–	–	0.0	15.7	3.9	80
GV5-9	–	–	0.0	19.2	1.3	80	GV5-9	–	–	0.0	19.1	1.2	80

Notes: (1) Underline reading assumed to be aberrant based on historical behavior of the monitoring location;
(2) NR = Value not recorded;
(3) NS = Not sampled due to instrument failure or snow cover;
(4) Sampling instrument used is a calibrated CES Landtec GEM 2000 or equivalent multi-gas meter.
(5) Temperature readings recorded from well head thermometers;
(6) NAM = Not Accessible for Monitoring;
(7) Wellheads in BOLD with X have been disconnected or valve closed; and
(8) Bal (Nitrogen) levels are the estimated balance gas remaining after deducting for CH4 (methane), O2 (oxygen), and CO2 (carbon dioxide).

VALLEYCREST GAS VENT AND WELL REPORT
(% Gas by Volume)

Week of:	Apr 14- Apr 20						Week of:	Apr 28 - May 4					
Supplement/Extraction Well	Valve Notch	Vacuum	CH4	O2	CO2	Bal	Supplement/ Extraction Well	Valve Notch	Vacuum	CH4	O2	CO2	Bal
EW-1	–	–	8.5	10.5	11	70	EW-1	–	–	11.1	8.3	14	67
EW-2	–	–	0.0	11.5	7.3	81	EW-2	–	–	0.0	11.4	10	79
EW-3	–	–	14.8	0.9	18	67	EW-3	–	–	18.2	1.2	19	62
EW-4	–	–	25.6	0.0	23	51	EW-4	–	–	26.2	0.0	24	50
EW-5	–	–	37.1	0.0	29	34	EW-5	–	–	24.2	0.0	23	53
EW-6	–	–	19.2	0.2	22	59	EW-6	–	–	21.3	0.0	22	57
EW-7	–	–	22.3	0.9	22	55	EW-7	–	–	20.2	0.0	19	61
EW-8	–	–	27.0	0.2	24	49	EW-8	–	–	32.6	0.0	27	40
EW-9	–	–	32.9	0.3	25	42	EW-9	–	–	33.4	0.0	27	40
EW-10	–	–	1.1	10.1	8.5	80	EW-10	–	–	7.8	1.1	15	76
EW-11	–	–	5.1	8.7	12	73	EW-11	–	–	8.4	5.8	17	69
EW-12	–	–	4.7	1.0	12	82	EW-12	–	–	1.2	11.8	8.7	78
SW1	–	–	30.9	0.0	28	41	SW1	–	–	19.5	5.7	18	57
SW2	–	–	31.0	0.3	26	43	SW2	–	–	22.6	0.0	20	57
SW3	–	–	–	–	–	–	SW3	–	–	–	–	–	–
NW1	–	–	8.3	0.0	21	71	NW1	–	–	14	0.0	22	64
NW2	–	–	47.5	0.0	33	20	NW2	–	–	51	0.0	35	14
NW3	–	–	50.1	0.0	38	12	NW3	–	–	49	0.0	35	16
NW4	–	–	11.7	0.0	18	70	NW4	–	–	18	0.0	19	63
NW5	–	–	8.0	0.0	20	72	NW5	–	–	7.4	0.0	21	72
NW6	–	–	61.8	0.0	39	0	NW6	–	–	61	0.0	39	0
NW7	–	–	63.7	0.0	33	3	NW7	–	–	63	0.0	36	1
NW8	–	–	4.8	10.1	8.7	76	NW8	–	–	0.7	20	0.9	78
WC1	–	–	–	–	–	–	WC1	–	–	–	–	–	–
WC4	–	–	–	–	–	–	WC4	–	–	–	–	–	–
FLARE 90	–	-3.90	–	–	–	–	FLARE 90	–	-3.90	–	–	–	–

Notes: (1) Underline reading assumed to be aberrant based on historical behavior of the monitoring location;
(2) NR = Value not recorded;
(3) NS = Not sampled due to instrument failure;
(4) Sampling instrument used is a calibrated CES Landtec GEM 2000 or equivalent multi-gas meter.
(5) Temperature readings recorded from well head thermometers;
(6) NAM = Not Accessible for Monitoring;
(7) Wellheads in BOLD with X have been disconnected or valve closed; and
(8) Bal (Nitrogen) levels are the estimated balance gas remaining after deducting for CH4 (methane), O2 (oxygen), and CO2 (carbon dioxide).

R. M. BROYLES COMPANY, L. L. C.

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REPORT COVER PAGE

To: Gary Saylor SCS <gsaylor@scsengineers.com> Pages: 5

From: Mike Broyles <rmbcom@woh.rr.com>

Date: 5/22/2014

Subject: LFG Monitoring Summary - Week of 05/12/14 - 05/18/14

Summary: All CPs remained in compliance this two week period.
There were no (0) flare flame failures due to low methane or other issues.
Flare operating cycles were 150 to 210 mins. ON and 1230 to 1290 mins. OFF.
Bi-Weekly Gas Vent, Extraction & Supplemental Well monitoring was performed May 18, 2014 with temps of 60 to 62°F and clear to partly cloudy conditions.
Vacuum readings were last taken on April 6, 2014.
Valves were open to Legs 1b, 2, 3A, 3B, 4 and 5; and
Wells open were NW 1-8, WC 1 & 4, SW 1 & 2, EW 1-4, 7, 8, 10, 11 & 12.

Flare Operating Hours:

	AM				PM				
Date	on	off	on	off	on	off	on	off	"ON" Hours
5/12/2014	--	--	10:00	--	--	1:00	--	--	3.0
5/13/2014	--	--	10:00	--	--	1:00	--	--	3.0
5/14/2014	--	--	10:00	--	--	1:00	--	--	3.0
5/15/2014	--	--	--	--	12:30	3:00	--	--	2.5
5/16/2014	--	--	11:30	--	--	3:00	--	--	3.5
5/17/2014	--	--	--	--	12:00	3:30	--	--	3.5
5/18/2014	--	--	--	--	12:30	4:00	--	--	3.5
								Total Hrs. =	22.0

Notes: # = Flare shut down during operation.
* = Flare reset to operate full time with propane.
@ = Flare reset to operate full time with methane.
+ = Other reason
Times represent Flare Clock which is currently EST.
Flow rate was 190 - 220 scfm. Temperature range (middle thermocouple) 1520 - 1570° F.

Daily/Weekly Monitoring Times:

Date	Probes/Wells Monitored	Sampling Period	Readings	Barometric Pressure	Trend
5/12/2014	--	--	--	--	--
5/13/2014	--	--	--	--	--
5/14/2014	--	--	--	--	--
5/15/2014	--	--	--	--	--
5/16/2014	--	--	--	--	--
5/17/2014	CPs, TGP/GPs	11:00A - 3:00P	0.0	30.16 - 30.18	R
5/18/2014	TGP/GPs, GVs/S&Ews	2:00 - 5:00P	0.0	30.31 - 30.28	F

Notes: CPs = Compliance Probes;
S&EW = Supplemental and Extraction Wells; and
Leg numbers = 1, 1b, 2, 3A, 3B, 4 & 5.
Readings in **BOLD** represent **Compliance Probe (CP)** readings greater than 5.0%
Barometric Pressure represents pressure and range during Sampling Period. Trend: R = rising, F = falling, S = steady

CONFIDENTIALITY NOTE: THIS MESSAGE IS INTENDED ONLY FOR THE INDIVIDUAL/S OR ENTITY/IES TO WHICH IT IS ADDRESSED AND MAY CONTAIN INFORMATION THAT IS PRIVILEGED, CONFIDENTIAL AND EXEMPT FROM DISCLOSURE UNDER APPLICABLE LAW. IF THE READER OF THIS MESSAGE IS NOT THE INTENDED RECIPIENT/S, OR THE EMPLOYEE OR AGENT RESPONSIBLE FOR DELIVERING THE MESSAGE TO THE INTENDED RECIPIENT/S. YOU ARE HEREBY NOTIFIED THAT ANY DISSEMINATION, DISTRIBUTION OR COPYING OF THIS COMMUNICATION IS STRICTLY PROHIBITED. IF YOU HAVE RECEIVED THIS COMMUNICATION IN ERROR, PLEASE NOTIFY R. M. BROYLES COMPANY, L. L. C. IMMEDIATELY BY TELEPHONE AT (937) 890-6985, AND RETURN THE ORIGINAL MESSAGE TO R. M. BROYLES COMPANY, L. L. C. AT THE ABOVE ADDRESS VIA THE U. S. POSTAL SERVICE.

VALLEYCREST COMPLIANCE PROBE REPORT
(% Methane and Oxygen by Volume)

	12-May		13-May		14-May		15-May		16-May		17-May		18-May	
Compliance Probes	CH4	O2	CH4	O2	CH4	O2	CH4	O2	CH4	O2	CH4	O2	CH4	O2
CP1-1R	–	–	–	–	–	–	–	–	–	–	0.0	17.2	–	–
CP1-2	–	–	–	–	–	–	–	–	–	–	0.0	16.1	–	–
CP1-3	–	–	–	–	–	–	–	–	–	–	0.0	15.0	–	–
CP1-4	–	–	–	–	–	–	–	–	–	–	0.0	16.6	–	–
CP1-5	–	–	–	–	–	–	–	–	–	–	0.0	16.0	–	–
CP1-7	–	–	–	–	–	–	–	–	–	–	0.0	16.7	–	–
CP1-9	–	–	–	–	–	–	–	–	–	–	0.0	17.5	–	–
CP1-11	–	–	–	–	–	–	–	–	–	–	0.0	18.1	–	–
CP1-13	–	–	–	–	–	–	–	–	–	–	0.0	16.6	–	–
GP-01 (for CP1-14)	–	–	–	–	–	–	–	–	–	–	0.0	19.0	–	–
GP-02 (for CP1b-1R)	–	–	–	–	–	–	–	–	–	–	0.0	12.8	–	–
CP1b-2R	–	–	–	–	–	–	–	–	–	–	0.0	18.5	–	–
CP1b-4R	–	–	–	–	–	–	–	–	–	–	0.0	18.4	–	–
CP1b-6R	–	–	–	–	–	–	–	–	–	–	0.0	18.0	–	–
TGP1b-E	–	–	–	–	–	–	–	–	–	–	0.0	19.6	–	–
TGP1b-A	–	–	–	–	–	–	–	–	–	–	0.0	19.8	–	–
TGP1b-F	–	–	–	–	–	–	–	–	–	–	0.0	18.5	–	–
TGP1b-B	–	–	–	–	–	–	–	–	–	–	0.0	17.8	–	–
TGP1b-G	–	–	–	–	–	–	–	–	–	–	0.0	17.5	–	–
TGP1b-C	–	–	–	–	–	–	–	–	–	–	0.0	17.3	–	–
TGP1b-H	–	–	–	–	–	–	–	–	–	–	0.0	18.8	–	–
TGP1b-D	–	–	–	–	–	–	–	–	–	–	0.0	20.0	–	–
GP-03	–	–	–	–	–	–	–	–	–	–	0.0	18.1	–	–
TGP-82	–	–	–	–	–	–	–	–	–	–	0.0	17.8	–	–
GP-04	–	–	–	–	–	–	–	–	–	–	0.0	17.7	–	–
TGP-83	–	–	–	–	–	–	–	–	–	–	0.0	18.6	–	–
CP2-1	–	–	–	–	–	–	–	–	–	–	0.0	19.5	–	–
CP2-2	–	–	–	–	–	–	–	–	–	–	0.0	19.9	–	–
CP2-4R	–	–	–	–	–	–	–	–	–	–	0.0	19.9	–	–
CP2-5R	–	–	–	–	–	–	–	–	–	–	0.0	18.5	–	–
CP-6R	–	–	–	–	–	–	–	–	–	–	0.0	17.9	–	–
CP2-7	–	–	–	–	–	–	–	–	–	–	0.0	18.3	–	–
CP2-9	–	–	–	–	–	–	–	–	–	–	0.0	17.3	–	–
TGP-06	–	–	–	–	–	–	–	–	–	–	0.0	18.6	–	–
TGP-East	–	–	–	–	–	–	–	–	–	–	0.0	14.9	–	–
TGP-Dads	–	–	–	–	–	–	–	–	–	–	0.0	18.8	–	–
CP3-1RR	–	–	–	–	–	–	–	–	–	–	0.0	16.3	–	–
CP3-2R	–	–	–	–	–	–	–	–	–	–	0.0	18.6	–	–
CP3-4R	–	–	–	–	–	–	–	–	–	–	0.0	19.1	–	–
CP3-5R	–	–	–	–	–	–	–	–	–	–	0.0	19.9	–	–
CP3-7R	–	–	–	–	–	–	–	–	–	–	0.0	19.1	–	–
CP3-8R	–	–	–	–	–	–	–	–	–	–	0.0	19.9	–	–
CP3-9	–	–	–	–	–	–	–	–	–	–	0.0	17.9	–	–
CP3-10R	–	–	–	–	–	–	–	–	–	–	0.0	19.4	–	–
CP3-12R	–	–	–	–	–	–	–	–	–	–	0.0	17.8	–	–
CP3-13R	–	–	–	–	–	–	–	–	–	–	0.0	18.2	–	–
CP3-14R	–	–	–	–	–	–	–	–	–	–	0.0	19.8	–	–
CP3-15R	–	–	–	–	–	–	–	–	–	–	0.0	19.5	–	–
TGP-89	–	–	–	–	–	–	–	–	–	–	0.0	18.4	–	–
CP4-A	–	–	–	–	–	–	–	–	–	–	0.0	17.3	–	–
CP4-B	–	–	–	–	–	–	–	–	–	–	0.0	18.2	–	–
CP4-C	–	–	–	–	–	–	–	–	–	–	0.0	19.3	–	–
CP4-1	–	–	–	–	–	–	–	–	–	–	0.0	19.0	–	–
CP4-2	–	–	–	–	–	–	–	–	–	–	0.0	18.8	–	–
CP4-3	–	–	–	–	–	–	–	–	–	–	0.0	19.8	–	–
CP4-4	–	–	–	–	–	–	–	–	–	–	0.0	19.0	–	–
CP4-6	–	–	–	–	–	–	–	–	–	–	0.0	17.1	–	–
CP5-1R	–	–	–	–	–	–	–	–	–	–	0.0	17.6	–	–
CP5-3R	–	–	–	–	–	–	–	–	–	–	0.0	17.0	–	–
CP5-4R	–	–	–	–	–	–	–	–	–	–	0.0	16.2	–	–
CP5-6	–	–	–	–	–	–	–	–	–	–	0.0	16.7	–	–
CP5-8	–	–	–	–	–	–	–	–	–	–	0.0	17.0	–	–

Notes: (1) Underline reading assumed to be aberrant based on historical behavior of the monitoring location;
(2) NR = Value not recorded.
(3) NS = Not sampled due to instrument failure or snow cover;
(4) Values in **Bold** Face Type exceed applicable concentration ceilings of 5% methane by volume
(5) Sampling instrument used is a calibrated CES Landtec GEM 2000 or equivalent multi-gas meter.
(6) Per the request of OEPA, Oxygen level readings were added to the Compliance Probe monitoring report table beginning March 5, 2009.

VALLEYCREST COMPLIANCE PROBE REPORT
(% Methane and Oxygen by Volume)

	12-May		13-May		14-May		15-May		16-May		17-May		18-May	
Compliance Probes	CH4	O2	CH4	O2	CH4	O2	CH4	16.3	CH4	O2	CH4	O2	CH4	O2
TGP-76	--	--	--	--	--	--	--	--	--	--	--	--	0.0	16.5
TGP-63	--	--	--	--	--	--	--	--	--	--	--	--	0.0	17.3
TGP-57	--	--	--	--	--	--	--	--	--	--	--	--	0.0	19.7
TGP-62	--	--	--	--	--	--	--	--	--	--	--	--	0.0	13.9
GP-12	--	--	--	--	--	--	--	--	--	--	--	--	0.0	17.6
TGP-60	--	--	--	--	--	--	--	--	--	--	--	--	0.0	18.8
TGP-65	--	--	--	--	--	--	--	--	--	--	--	--	0.0	18.2
TGP-66	--	--	--	--	--	--	--	--	--	--	--	--	0.0	18.0
TGP-67	--	--	--	--	--	--	--	--	--	--	--	--	0.0	16.4
TGP-68	--	--	--	--	--	--	--	--	--	--	--	--	0.0	15.8
TGP-53	--	--	--	--	--	--	--	--	--	--	--	--	0.0	16.3
TGP-59	--	--	--	--	--	--	--	--	--	--	--	--	0.0	19.7
TGP-58	--	--	--	--	--	--	--	--	--	--	--	--	0.0	16.6
GP-14	--	--	--	--	--	--	--	--	--	--	--	--	0.0	17.9
TGP-87	--	--	--	--	--	--	--	--	--	--	--	--	0.0	19.1
TGP-88	--	--	--	--	--	--	--	--	--	--	--	--	0.0	16.9
TGP-69	--	--	--	--	--	--	--	--	--	--	0.0	19.5	--	--
TGP-90	--	--	--	--	--	--	--	--	--	--	0.0	19.1	--	--
GP-17	--	--	--	--	--	--	--	--	--	--	0.0	17.2	--	--
TGP-91	--	--	--	--	--	--	--	--	--	--	0.0	17.5	--	--
GP-18	--	--	--	--	--	--	--	--	--	--	0.0	19.4	--	--
TGP-73	--	--	--	--	--	--	--	--	--	--	0.0	15.2	--	--
TGP-74	--	--	--	--	--	--	--	--	--	--	0.0	16.8	--	--
TGP-84	--	--	--	--	--	--	--	--	--	--	0.0	16.8	--	--
TGP-75	--	--	--	--	--	--	--	--	--	--	0.0	14.5	--	--
TGP-85	--	--	--	--	--	--	--	--	--	--	0.0	17.2	--	--
TGP-72	--	--	--	--	--	--	--	--	--	--	0.0	18.5	--	--
TGP-86	--	--	--	--	--	--	--	--	--	--	0.0	17.9	--	--
TGP-32	--	--	--	--	--	--	--	--	--	--	0.0	19.3	--	--

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(5) Sampling instrument used is a calibrated CES Landtec GEM 2000 or equivalent multi-gas meter.
(6) Per the request of OEPA, Oxygen level readings were added to the Compliance Probe monitoring report table beginning March 5, 2009.

VALLEYCREST GAS VENT AND WELL REPORT
(% Gas by Volume)

Week of:	Apr 28 - May 4						Week of:	May 12 - May 18					
Wellhead ID	Vacuum	Temp	CH4	O2	CO2	Bal	Wellhead ID	Vacuum	Temp	CH4	O2	CO2	Bal
LEG 1	–	–	–	–	–	–	**LEG 1**	–	–	–	–	–	–
GV1-1	–	–	7.7	0.6	22	70	GV1-1	–	–	5.2	0.9	20	74
GV1-2	–	50	26.3	1.1	24	49	GV1-2	–	50	14.3	11.4	13	61
GV1-3	–	–	23.9	1.6	26	49	GV1-3	–	–	23.9	0.9	28	48
GV1-4	–	–	31.1	0.6	26	40	GV1-4	–	–	24.2	0.8	27	48
GV1-5	–	–	28.3	0.0	27	45	GV1-5	–	–	15.3	0.4	24	60
GV1-6	–	–	23.5	0.6	26	50	GV1-6	–	–	22.3	0.0	26	52
GV1-7	–	–	0.3	19.5	0.7	80	GV1-7	–	–	0.3	20.2	0.8	79
GV1-8	–	–	12.8	0.0	22	65	GV1-8	–	–	8.7	2.0	20	69
GV1-9	–	–	8.9	0.0	21	70	GV1-9	–	–	2.4	6.2	14	77
GV1-10X	–	–	8.9	0.4	21	70	**GV1-10X**	–	–	11.5	0.0	22	67
GV1-11	–	–	1.1	17.0	2.2	80	GV1-11	–	–	0.9	16.7	3.5	79
GV1-12	–	–	10.5	2.9	18	69	GV1-12	–	–	12.7	0.9	21	65
GV1-13	–	–	4.9	1.5	17	77	GV1-13	–	–	4.1	2.2	17	77
LEG 1b	–	–	–	–	–	–	**LEG 1b**	–	–	–	–	–	–
GV1b-1	–	–	0.7	15.5	4.2	80	GV1b-1	–	–	0.6	14.7	5.4	79
GV1b-2	–	–	0.1	19.3	0.2	80	GV1b-2	–	–	0.0	20.5	0.2	79
GV1b-3	–	–	0.4	19.9	0.4	79	GV1b-3	–	–	0.2	19.1	1.7	79
GV1b-4	–	–	0.0	13.9	5.6	81	GV1b-4	–	–	0.2	13.6	6.7	80
GV1b-5	–	56	0.0	19.8	0.2	80	GV1b-5	–	56	0.1	20.9	0.1	79
LEG 2	–	–	–	–	–	–	**LEG 2**	–	–	–	–	–	–
GV2-1	–	–	1.4	16.3	5.1	77	GV2-1	–	–	2.6	11.9	8.9	77
GV2-2	–	60	0.1	14.5	6.5	79	GV2-2	–	60	0.3	8.5	11	80
GV2-3	–	64	3.1	4.1	14	79	GV2-3	–	64	0.5	8.0	13	79
GV2-4	–	72	2.9	2.3	15	80	GV2-4	–	72	0.9	8.3	11	80
LEG 3	–	–	–	–	–	–	**LEG 3**	–	–	–	–	–	–
GV3-1	–	–	51.5	0.0	29	20	GV3-1	–	–	59.7	0.0	29	11
GV3-2	–	–	27.0	3.4	20	50	GV3-2	–	–	39.3	1.7	24	35
GV3-3	–	–	4.0	10.1	10	76	GV3-3	–	–	0.7	10.8	11	78
GV3-4	–	58	11.8	1.6	18	69	GV3-4	–	58	9.5	1.4	18	71
GV3-5	–	–	1.7	6.4	9.4	83	GV3-5	–	–	3.2	5.7	12	79
GV3-6	–	–	4.3	3.7	12	80	GV3-6	–	–	2.8	2.5	15	80
GV3-7	–	–	0.0	16.7	3.7	80	GV3-7	–	–	0.4	7.5	10	82
GV3-8	–	–	0.0	14.8	4.9	80	GV3-8	–	–	0.5	5.7	11	83
GV3-9	–	–	0.9	10.4	8.1	81	GV3-9	–	–	1.5	4.5	13	81
GV3-10 X	–	–	0.5	7.2	10	82	**GV3-10 X**	–	–	1.1	6.5	12	80
GV3-11	–	–	1.4	1.2	16	81	GV3-11	–	–	2.8	0.3	19	78
GV3-12	–	–	1.0	5.2	14	80	GV3-12	–	–	1.6	5.3	13	80
GV3-13	–	–	3.1	5.6	14	77	GV3-13	–	–	5.4	4.0	15	76
GV3-14	–	–	15.0	2.9	16	66	GV3-14	–	–	16.5	2.0	18	64
LEG 3	–	–	–	–	–	–	**LEG 3**	–	–	–	–	–	–
LEG 4	–	–	–	–	–	–	**LEG 4**	–	–	–	–	–	–
GV4-C	–	58	0.8	4.0	12	83	GV4-C	–	58	1.3	0.5	14	84
GV4-B	–	–	0.2	7.3	8.5	84	GV4-B	–	–	0.9	2.9	12	84
GV4-A	–	–	0.3	17.9	1.9	80	GV4-A	–	–	0.9	16.7	2.7	80
GV4-1	–	–	0.5	18.9	1.1	80	GV4-1	–	–	0.3	19.4	1.1	79
GV4-2	–	–	0.5	16.6	3.6	79	GV4-2	–	–	2.0	15.8	5.0	77
GV4-3	–	–	10.9	3.4	17	69	GV4-3	–	–	9.1	3.9	16	71
GV4-4 X	–	–	0.0	18.6	1.2	80	**GV4-4 X**	–	–	0.1	20.5	0.2	79
GV4-5	–	–	5.7	8.2	11	77	GV4-5	–	–	6.5	9.0	11	74
GV4-6	–	–	7.7	5.4	14	73	GV4-6	–	–	10.3	0.3	19	70
GV4-7	–	–	25.9	0.0	25	49	GV4-7	–	–	24.9	0.0	25	50
LEG 5	–	–	–	–	–	–	**LEG 5**	–	–	–	–	–	–
GV5-1	–	80	40.6	0.0	27	32	GV5-1	–	80	35.4	0.0	26	39
GV5-2	–	–	35.2	0.0	27	38	GV5-2	–	–	36.5	0.0	26	38
GV5-3	–	–	1.4	18.3	1.9	78	GV5-3	–	–	26.1	0.0	26	48
GV5-4	–	–	0.9	17.6	3.1	78	GV5-4	–	–	0.4	10.1	9.1	80
GV5-5	–	–	7.8	0.6	17	75	GV5-5	–	–	11.5	0.0	24	65
GV5-6	–	–	11.4	8.7	12	68	GV5-6	–	–	0.2	6.8	13	80
GV5-7	–	–	6.2	4.1	14	76	GV5-7	–	–	12.2	0.0	22	66
GV5-8	–	–	0.0	15.7	3.9	80	GV5-8	–	–	0.1	19.9	0.8	79
GV5-9	–	–	0.0	19.1	1.2	80	GV5-9	–	–	0.1	20.1	0.5	79

Notes: (1) Underline reading assumed to be aberrant based on historical behavior of the monitoring location;
(2) NR = Value not recorded;
(3) NS = Not sampled due to instrument failure or snow cover;
(4) Sampling instrument used is a calibrated CES Landtec GEM 2000 or equivalent multi-gas meter.
(5) Temperature readings recorded from well head thermometers;
(6) NAM = Not Accessible for Monitoring;
(7) Wellheads in BOLD with X have been disconnected or valve closed; and
(8) Bal (Nitrogen) levels are the estimated balance gas remaining after deducting for CH4 (methane), O2 (oxygen), and CO2 (carbon dioxide).

VALLEYCREST GAS VENT AND WELL REPORT
(% Gas by Volume)

Week of:	Apr 28 - May 4						Week of:	May 12 - May 18					
Supplement/Extraction Well	Valve Notch	Vacuum	CH4	O2	CO2	Bal	Supplement/ Extraction Well	Valve Notch	Vacuum	CH4	O2	CO2	Bal
EW-1	–	–	11.1	8.3	14	67	EW-1	–	–	8.3	10.6	12	69
EW-2	–	–	0.0	11.4	10	79	EW-2	–	–	0.0	8.7	12	79
EW-3	–	–	18.2	1.2	19	62	EW-3	–	–	18.9	0.0	20	61
EW-4	–	–	26.2	0.0	24	50	EW-4	–	–	24.8	1.0	24	50
EW-5	–	–	24	0.0	23	53	EW-5	–	–	38	0.0	28	34
EW-6	–	–	21	0.0	22	57	EW-6	–	–	24	0.0	22	54
EW-7	–	–	20	0.0	19	61	EW-7	–	–	24	0.0	22	54
EW-8	–	–	33	0.0	27	40	EW-8	–	–	37	0.0	28	35
EW-9	–	–	33	0.0	27	40	EW-9	–	–	39	0.7	28	33
EW-10	–	–	7.8	1.1	15	76	EW-10	–	–	3.5	0.2	13	83
EW-11	–	–	8.4	5.8	17	69	EW-11	–	–	0.0	20.7	0.0	79
EW-12	–	–	1.2	11.6	8.7	78	EW-12	–	–	0.5	9.9	11	79
SW1	–	–	20	5.7	18	57	SW1	–	–	30	0.0	24	46
SW2	–	–	23	0.0	20	57	SW2	–	–	31	0.0	26	43
SW3	–	–	–	–	–	–	SW3	–	–	–	–	–	–
NW1	–	–	14	0.0	22	64	NW1	–	–	8.7	0.0	22	69
NW2	–	–	51	0.0	35	14	NW2	–	–	48	0.0	33	19
NW3	–	–	49	0.0	35	16	NW3	–	–	47	0.0	32	21
NW4	–	–	18	0.0	19	63	NW4	–	–	18	0.0	24	58
NW5	–	–	7.4	0.0	21	72	NW5	–	–	6.1	0.0	20	74
NW6	–	–	61	0.0	39	0	NW6	–	–	59	0.0	37	4
NW7	–	–	63	0.0	36	1	NW7	–	–	60	0.0	37	3
NW8	–	–	0.7	20.0	0.9	78	NW8	–	–	8.5	0.0	21	71
WC1	–	–	–	–	–	–	WC1	–	–	–	–	–	–
WC4	–	–	–	–	–	–	WC4	–	–	–	–	–	–
FLARE 90	–	-3.90	–	–	–	–	FLARE 90	–	-3.90	–	–	–	–

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