de maximis, inc.
450 Montbrook Lane
Knoxville, TN 37919
(865) 691-5052
(865) 691-6485 FAX
(865) 691-9835 ACCT. FAX

US EPA RECORDS CENTER REGION 5
473067

Via Electronic and Certified Mail

May 9, 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 #231 – April 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 April 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 #231 – April 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; and,
- The site fence was inspected during the reporting period and any necessary repairs were addressed.

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 April 2014 are presented in Attachment A of this report.

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

- Develop Monthly Progress Report (MPR) #231 summarizing activities in April 2014;
- Conduct quarterly combustible gas indicator (CGI) checks;
- Collect annual flare influent gas sample; and,
- Continue LGAS operation and performance monitoring.

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

- May 10 - Anticipated submittal of the April 2014 MPR to U.S. EPA; and,
- May 15 - Conduct quarterly CGI checks, and collect annual flare influent gas sample.

H. Changes in Personnel During Reporting Period

- None.

I. Significant Correspondence, Telephone Conversations, or Discussions

Communication	Date	Recipient(s)	Subject
dmi transmittal	04/10/14	U.S. EPA	Monthly Progress Report for the Month of March 2014.

PAPER

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: 4/12/2014

Subject: LFG Monitoring Summary - Week of 03/31/14 - 04/06/14

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 April 6, 2014 with temps of 49 to 55°F with scattered clouds.
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
3/31/2014	–	–	–	–	12:00	3:00	–	–	3.0
4/1/2014	–	–	–	–	12:00	3:00	–	–	3.0
4/2/2014	–	–	–	–	12:00	3:00	–	–	3.0
4/3/2014	–	–	11:00	–	–	3:00	–	–	4.0
4/4/2014	–	–	11:00	–	–	3:00	–	–	4.0
4/5/2014	–	–	11:00	–	–	3:00	–	–	4.0
4/6/2014	–	–	–	–	12:00	4:00	–	–	4.0
								Total Hrs. =	25.0

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
3/31/2014	–	–	–	–	–
4/1/2014	–	–	–	–	–
4/2/2014	–	–	–	–	–
4/3/2014	–	–	–	–	–
4/4/2014	–	–	–	–	–
4/5/2014	CPs1b-4, TGP/GPs	8:30A - 12:30P	0.0	30.21 - 30.19	F
4/6/2014	TGP/GPs, GVs/S&EWs	12:00 - 3:30P	0.0	30.19 - 30.07	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)

	31-Mar		1-Apr		2-Apr		3-Apr		4-Apr		5-Apr		6-Apr	
Compliance Probes	CH4	O2	CH4	O2	CH4	O2	CH4	O2	CH4	O2	CH4	O2	CH4	O2
CP1-1R	–	–	–	–	–	–	–	–	–	–	0.0	17.5	–	–
CP1-2	–	–	–	–	–	–	–	–	–	–	0.0	14.2	–	–
CP1-3	–	–	–	–	–	–	–	–	–	–	0.0	15.7	–	–
CP1-4	–	–	–	–	–	–	–	–	–	–	0.0	12.1	–	–
CP1-5	–	–	–	–	–	–	–	–	–	–	0.0	15.2	–	–
CP1-7	–	–	–	–	–	–	–	–	–	–	0.0	18.2	–	–
CP1-9	–	–	–	–	–	–	–	–	–	–	0.0	14.2	–	–
CP1-11	–	–	–	–	–	–	–	–	–	–	0.0	16.4	–	–
CP1-13	–	–	–	–	–	–	–	–	–	–	0.0	17.2	–	–
GP-01 (for CP1-14)	–	–	–	–	–	–	–	–	–	–	0.0	19.2	–	–
GP-02 (for CP1b-1R)	–	–	–	–	–	–	–	–	–	–	0.0	12.4	–	–
CP1b-2R	–	–	–	–	–	–	–	–	–	–	0.0	18.7	–	–
CP1b-4R	–	–	–	–	–	–	–	–	–	–	0.0	16.9	–	–
CP1b-6R	–	–	–	–	–	–	–	–	–	–	0.0	17.2	–	–
TGP1b-E	–	–	–	–	–	–	–	–	–	–	0.0	12.6	–	–
TGP1b-A	–	–	–	–	–	–	–	–	–	–	0.0	13.3	–	–
TGP1b-F	–	–	–	–	–	–	–	–	–	–	0.0	19.7	–	–
TGP1b-B	–	–	–	–	–	–	–	–	–	–	0.0	11.8	–	–
TGP1b-G	–	–	–	–	–	–	–	–	–	–	0.0	17.1	–	–
TGP1b-C	–	–	–	–	–	–	–	–	–	–	0.0	19.4	–	–
TGP1b-H	–	–	–	–	–	–	–	–	–	–	0.0	19.6	–	–
TGP1b-D	–	–	–	–	–	–	–	–	–	–	0.0	20.2	–	–
GP-03	–	–	–	–	–	–	–	–	–	–	0.0	18.5	–	–
TGP-82	–	–	–	–	–	–	–	–	–	–	0.0	18.1	–	–
GP-04	–	–	–	–	–	–	–	–	–	–	0.0	17.2	–	–
TGP-83	–	–	–	–	–	–	–	–	–	–	0.0	19.0	–	–
CP2-1	–	–	–	–	–	–	–	–	–	–	0.0	20.2	–	–
CP2-2	–	–	–	–	–	–	–	–	–	–	0.0	19.0	–	–
CP2-4R	–	–	–	–	–	–	–	–	–	–	0.0	8.6	–	–
CP2-5R	–	–	–	–	–	–	–	–	–	–	0.0	15.6	–	–
CP-6R	–	–	–	–	–	–	–	–	–	–	0.0	18.6	–	–
CP2-7	–	–	–	–	–	–	–	–	–	–	0.0	17.5	–	–
CP2-9	–	–	–	–	–	–	–	–	–	–	0.0	19.8	–	–
TGP-06	–	–	–	–	–	–	–	–	–	–	0.0	20.1	–	–
TGP-East	–	–	–	–	–	–	–	–	–	–	0.0	20.5	–	–
TGP-Dads	–	–	–	–	–	–	–	–	–	–	0.0	20.5	–	–
CP3-1RR	–	–	–	–	–	–	–	–	–	–	0.0	19.6	–	–
CP3-2R	–	–	–	–	–	–	–	–	–	–	0.0	20.4	–	–
CP3-4R	–	–	–	–	–	–	–	–	–	–	0.0	20.1	–	–
CP3-5R	–	–	–	–	–	–	–	–	–	–	0.0	19.8	–	–
CP3-7R	–	–	–	–	–	–	–	–	–	–	0.0	20.0	–	–
CP3-8R	–	–	–	–	–	–	–	–	–	–	0.0	18.3	–	–
CP3-9	–	–	–	–	–	–	–	–	–	–	0.0	19.8	–	–
CP3-10R	–	–	–	–	–	–	–	–	–	–	0.0	18.7	–	–
CP3-12R	–	–	–	–	–	–	–	–	–	–	0.0	17.7	–	–
CP3-13R	–	–	–	–	–	–	–	–	–	–	0.0	20.4	–	–
CP3-14R	–	–	–	–	–	–	–	–	–	–	0.0	20.0	–	–
CP3-15R	–	–	–	–	–	–	–	–	–	–	0.0	20.3	–	–
TGP-89	–	–	–	–	–	–	–	–	–	–	0.0	18.4	–	–
CP4-A	–	–	–	–	–	–	–	–	–	–	0.0	18.5	–	–
CP4-B	–	–	–	–	–	–	–	–	–	–	0.0	18.5	–	–
CP4-C	–	–	–	–	–	–	–	–	–	–	0.0	17.7	–	–
CP4-1	–	–	–	–	–	–	–	–	–	–	0.0	9.9	–	–
CP4-2	–	–	–	–	–	–	–	–	–	–	0.0	13.3	–	–
CP4-3	–	–	–	–	–	–	–	–	–	–	0.0	16.1	–	–
CP4-4	–	–	–	–	–	–	–	–	–	–	0.0	10.8	–	–
CP4-6	–	–	–	–	–	–	–	–	–	–	0.0	9.0	–	–
CP5-1R	–	–	–	–	–	–	–	–	–	–	0.0	18.7	–	–
CP5-3R	–	–	–	–	–	–	–	–	–	–	0.0	18.4	–	–
CP5-4R	–	–	–	–	–	–	–	–	–	–	0.0	15.5	–	–
CP5-6	–	–	–	–	–	–	–	–	–	–	0.0	16.5	–	–
CP5-8	–	–	–	–	–	–	–	–	–	–	0.0	17.8	–	–

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)

	31-Mar		1-Apr		2-Apr		3-Apr		4-Apr		5-Apr		6-Apr	
Compliance Probes	CH4	O2	CH4	O2	CH4	O2	CH4	16.3	CH4	O2	CH4	O2	CH4	O2
TGP-76	–	–	–	–	–	–	–	–	–	–	–	–	0.0	9.5
TGP-63	–	–	–	–	–	–	–	–	–	–	–	–	0.0	20.0
TGP-57	–	–	–	–	–	–	–	–	–	–	–	–	0.0	20.7
TGP-62	–	–	–	–	–	–	–	–	–	–	–	–	0.0	13.3
GP-12	–	–	–	–	–	–	–	–	–	–	–	–	0.0	17.2
TGP-60	–	–	–	–	–	–	–	–	–	–	–	–	0.0	18.1
TGP-65	–	–	–	–	–	–	–	–	–	–	–	–	0.0	16.5
TGP-66	–	–	–	–	–	–	–	–	–	–	–	–	0.0	18.6
TGP-67	–	–	–	–	–	–	–	–	–	–	–	–	0.0	18.8
TGP-68	–	–	–	–	–	–	–	–	–	–	–	–	0.0	18.6
TGP-53	–	–	–	–	–	–	–	–	–	–	–	–	0.0	14.7
TGP-59	–	–	–	–	–	–	–	–	–	–	–	–	0.0	18.4
TGP-58	–	–	–	–	–	–	–	–	–	–	–	–	0.0	17.0
GP-14	–	–	–	–	–	–	–	–	–	–	–	–	0.0	17.1
TGP-87	–	–	–	–	–	–	–	–	–	–	–	–	0.0	18.9
TGP-88	–	–	–	–	–	–	–	–	–	–	–	–	0.0	19.9
TGP-69	–	–	–	–	–	–	–	–	–	–	0.0	20.6	–	–
TGP-90	–	–	–	–	–	–	–	–	–	–	0.0	20.2	–	–
GP-17	–	–	–	–	–	–	–	–	–	–	0.0	17.4	–	–
TGP-91	–	–	–	–	–	–	–	–	–	–	0.0	20.6	–	–
GP-18	–	–	–	–	–	–	–	–	–	–	0.0	20.2	–	–
TGP-73	–	–	–	–	–	–	–	–	–	–	0.0	18.8	–	–
TGP-74	–	–	–	–	–	–	–	–	–	–	0.0	18.7	–	–
TGP-84	–	–	–	–	–	–	–	–	–	–	0.0	18.4	–	–
TGP-75	–	–	–	–	–	–	–	–	–	–	0.0	8.7	–	–
TGP-85	–	–	–	–	–	–	–	–	–	–	0.0	16.6	–	–
TGP-72	–	–	–	–	–	–	–	–	–	–	0.0	16.5	–	–
TGP-86	–	–	–	–	–	–	–	–	–	–	0.0	18.7	–	–
TGP-32	–	–	–	–	–	–	–	–	–	–	0.0	14.7	–	–

(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:	Mar 17- Mar 23						Week of:	Mar 31- Apr 06					
Wellhead ID	Vacuum	Temp	CH4	O2	CO2	Bal	Wellhead ID	Vacuum	Temp	CH4	O2	CO2	Bal
LEG 1	–	–	–	–	–	–	**LEG 1**	-1.68	–	–	–	–	–
GV1-1	–	–	5.6	1.3	19	74	GV1-1	–	–	10.7	0.2	22	67
GV1-2	–	42	4.7	18.3	4.0	73	GV1-2	–	56	22.0	5.9	21	51
GV1-3	–	–	23.3	1.0	25	51	GV1-3	–	–	21.8	0.4	24	54
GV1-4	–	–	28.2	1.3	25	46	GV1-4	–	–	20.1	1.1	24	55
GV1-5	–	–	23.0	0.3	24	53	GV1-5	–	–	25.4	0.0	26	49
GV1-6	–	–	12.5	5.5	18	64	GV1-6	–	–	19.6	0.3	25	55
GV1-7	–	–	0.3	20.1	0.4	79	GV1-7	–	–	0.1	18.9	0.6	80
GV1-8	–	–	7.2	2.0	20	71	GV1-8	–	–	10.9	0.1	21	68
GV1-9	–	–	3.2	4.6	15	77	GV1-9	–	–	10.6	12.5	7.1	70
GV1-10X	–	–	6.1	1.2	17	76	**GV1-10X**	–	–	8.6	0.0	20	71
GV1-11	–	–	0.2	20.2	0.4	79	GV1-11	–	–	0.4	18.8	1.0	80
GV1-12	–	–	11.0	3.0	17	69	GV1-12	–	–	11.4	2.6	17	69
GV1-13	–	–	3.5	4.7	13	79	GV1-13	–	–	1.8	1.4	13	84
LEG 1b	–	–	–	–	–	–	**LEG 1b**	-1.06	–	–	–	–	–
GV1b-1	–	–	0.2	15.9	4.2	80	GV1b-1	–	–	0.2	16.1	2.8	81
GV1b-2	–	–	0.0	20.7	0.3	79	GV1b-2	–	–	0.0	19.4	0.3	80
GV1b-3	–	–	1.0	19.3	2.1	78	GV1b-3	–	–	0.0	18.9	0.1	81
GV1b-4	–	–	0.6	16.2	4.3	79	GV1b-4	–	–	0.1	12.5	5.6	82
GV1b-5	–	50	0.1	20.5	0.3	79	GV1b-5	–	50	0.0	19.2	0.2	81
LEG 2	–	–	–	–	–	–	**LEG 2**	-0.16	–	–	–	–	–
GV2-1	–	–	1.1	17.3	4.5	77	GV2-1	–	–	3.9	8.6	11	77
GV2-2	–	64	1.1	17.5	4.5	77	GV2-2	–	68	1.7	5.7	11	82
GV2-3	–	60	0.9	17.1	4.7	77	GV2-3	–	72	1.8	4.1	14	80
GV2-4	–	64	0.9	17.2	4.6	77	GV2-4	–	80	0.1	19.1	0.3	81
LEG 3	–	–	–	–	–	–	**LEG 3**	-0.11	–	–	–	–	–
GV3-1	–	–	12.7	6.2	14	67	GV3-1	–	–	43.2	0.3	27	30
GV3-2	–	–	41.5	3.2	22	33	GV3-2	–	–	53.8	0.0	28	18
GV3-3	–	–	2.6	13.4	5.7	78	GV3-3	–	–	13.6	2.3	13	71
GV3-4	–	44	4.2	10.2	12	74	GV3-4	–	62	25.1	0.0	21	54
GV3-5	–	–	1.5	10.3	6.9	81	GV3-5	–	–	6.4	5.2	10	78
GV3-6	–	–	2.1	5.0	12	81	GV3-6	–	–	2.9	3.0	12	82
GV3-7	–	–	1.8	4.5	11	83	GV3-7	–	–	0.9	5.1	7.1	87
GV3-8	–	–	0.1	11.1	6.5	82	GV3-8	–	–	0.8	12.4	4.6	82
GV3-9	–	–	1.6	13.1	6.9	78	GV3-9	–	–	12.6	0.9	14	73
GV3-10 X	–	–	0.6	11.8	7.1	81	**GV3-10 X**	–	–	3.0	2.8	13	81
GV3-11	–	–	0.0	6.6	12	81	GV3-11	–	–	4.9	0.0	17	78
GV3-12	–	–	1.4	5.1	12	82	GV3-12	–	–	10.2	1.2	16	73
GV3-13	–	–	6.1	2.6	15	76	GV3-13	–	–	10.0	4.4	15	71
GV3-14	–	–	14.1	1.7	15	69	GV3-14	–	–	27.9	0.1	20	52
LEG 3	–	–	–	–	–	–	**LEG 3**	–	–	–	–	–	–
LEG 4	–	–	–	–	–	–	**LEG 4**	-0.09	–	–	–	–	–
GV4-C	–	48	0.5	1.6	14	84	GV4-C	–	70	0.7	2.2	13	84
GV4-B	–	–	0.0	2.2	13	85	GV4-B	–	–	0.0	1.8	13	85
GV4-A	–	–	0.0	18.1	2.5	79	GV4-A	–	–	1.7	16.2	3.4	79
GV4-1	–	–	0.4	18.0	1.8	80	GV4-1	–	–	1.3	17.7	1.8	79
GV4-2	–	–	4.3	10.8	8.9	76	GV4-2	–	–	5.8	13.6	6.7	74
GV4-3	–	–	10.0	6.2	14	70	GV4-3	–	–	11.0	3.7	15	70
GV4-4 X	–	–	0.1	18.8	1.0	80	**GV4-4 X**	–	–	0.0	19.0	0.3	81
GV4-5	–	–	11.1	4.7	14	70	GV4-5	–	–	10.2	7.1	12	71
GV4-6	–	–	7.4	4.4	15	73	GV4-6	–	–	14.9	1.4	19	65
GV4-7	–	–	16.1	0.6	21	62	GV4-7	–	–	36.4	0.0	26	38
LEG 5	–	–	–	–	–	–	**LEG 5**	-0.08	–	–	–	–	–
GV5-1	–	80	0.0	20.3	0.5	79	GV5-1	–	80	50.5	0.5	27	22
GV5-2	–	–	0.4	13.2	6.5	80	GV5-2	–	–	48.4	0.0	28	24
GV5-3	–	–	0.1	18.4	0.3	81	GV5-3	–	–	22.0	0.1	16	62
GV5-4	–	–	0.0	20.4	0.4	79	GV5-4	–	–	15.1	0.8	11	73
GV5-5	–	–	0.0	20.6	0.2	79	GV5-5	–	–	7.6	0.0	15	77
GV5-6	–	–	0.0	20.6	0.1	79	GV5-6	–	–	8.4	0.9	13	78
GV5-7	–	–	0.0	19.5	1.6	79	GV5-7	–	–	5.9	0.5	15	79
GV5-8	–	–	0.0	19.9	0.6	80	GV5-8	–	–	0.0	16.4	2.4	81
GV5-9	–	–	0.0	20.5	0.3	79	GV5-9	–	–	0.0	10.5	6.4	83

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:	Mar 17- Mar 23						Week of:	Mar 31- Apr 06					
Supplement/Extraction Well	Valve Notch	Vacuum	CH4	O2	CO2	Bal	Supplement/ Extraction Well	Valve Notch	Vacuum	CH4	O2	CO2	Bal
EW-1	–	–	17.5	5.4	19	58	EW-1	-0.75	–	12.2	6.5	16	65
EW-2	–	–	0.6	17.9	3.9	78	EW-2	-0.62	–	0.0	10.9	7.8	81
EW-3	–	–	16.2	2.9	17	64	EW-3	-0.54	–	26.9	0.7	19	53
EW-4	–	–	27.5	0.6	23	49	EW-4	–	–	27.1	0.5	25	47
EW-5	–	–	37.2	0.0	25	38	EW-5	–	–	37.2	0.0	26	37
EW-6	–	–	27.0	0.7	23	49	EW-6	–	–	28.6	3.9	22	46
EW-7	–	–	18.4	0.5	21	60	EW-7	–	–	16.9	8.5	14	61
EW-8	–	–	24.6	0.0	23	52	EW-8	–	–	25.2	0.0	15	60
EW-9	–	–	32.7	0.0	25	42	EW-9	–	–	33.9	0.0	26	40
EW-10	–	–	2.2	1.4	12	84	EW-10	–	–	2.2	1.4	16	80
EW-11	–	–	4.7	10.3	10	75	EW-11	-0.84	–	9.0	3.8	17	70
EW-12	–	–	0.9	13.7	6.5	79	EW-12	-0.70	–	1.4	9.3	9.3	80
SW1	–	–	29.5	0.0	27	44	SW1	–	–	35.0	0.0	27	38
SW2	–	–	30.2	0.0	25	44	SW2	–	–	32.5	0.0	26	42
SW3	–	–	–	–	–	–	SW3	–	–	–	–	–	–
NW1	–	–	6.1	0.8	19	74	NW1	–	–	10.0	0.1	21	69
NW2	–	–	16.9	0.4	30	53	NW2	–	–	47.8	0.0	33	19
NW3	–	–	42.8	0.3	31	26	NW3	–	–	46.3	0.0	33	21
NW4	–	–	8.2	3.4	14.0	74	NW4	–	–	10.3	0.8	13	76
NW5	–	–	7.0	0.3	18	75	NW5	–	–	0.6	17.9	1.6	80
NW6	–	–	63.5	0.0	38	0	NW6	–	–	38.8	1.2	27	33
NW7	–	–	31.2	4.7	24	40	NW7	–	–	61.6	0.0	38	0
NW8	–	–	0.3	20.5	0.4	79	NW8	–	–	10.8	0.0	20	69
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;
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(5) Temperature readings recorded from well head thermometers;
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(8) Bal (Nitrogen) levels are the estimated balance gas remaining after deducting for CH4 (methane), O2 (oxygen), and CO2 (carbon dioxide).

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REPORT COVER PAGE

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

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

Date: 4/30/2014

Subject: LFG Monitoring Summary - Week of 04/14/14 - 04/20/14

Summary: All CPs remained in compliance this two week period.
There was one (1) flare flame failure 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 April 20, 2014 with temps of 56 to 70°F with clear 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
4/14/2014	–	–	–	–	12:00	4:00	–	–	4.0
4/15/2014	–	–	–	–	12:00	12:30#	3:00	7:00	4.5
4/16/2014	–	–	–	–	–	–	3:00	7:00	4.0
4/17/2014	–	–	–	–	–	–	3:00	7:00	4.0
4/18/2014	–	–	–	–	–	–	3:00	7:00	4.0
4/19/2014	–	–	–	–	–	–	4:30	7:30	3.0
4/20/2014	–	–	10:00	–	–	1:30	–	–	3.5
								Total Hrs. =	27.0

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
4/14/2014	–	–	–	–	–
4/15/2014	–	–	–	–	–
4/16/2014	–	–	–	–	–
4/17/2014	–	–	–	–	–
4/18/2014	–	–	–	–	–
4/19/2014	CPs1b-4, TGP/GPs	9:00A - 1:00P	0.0	30.35	S
4/20/2014	TGP/GPs, GVs/S&EWs	10:00A - 1:30P	0.0	30.29 - 30.23	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)

	14-Apr		15-Apr		16-Apr		17-Apr		18-Apr		19-Apr		20-Apr	
Compliance Probes	CH4	O2	CH4	O2	CH4	O2	CH4	O2	CH4	O2	CH4	O2	CH4	O2
CP1-1R	–	–	–	–	–	–	–	–	–	–	0.0	18.8	–	–
CP1-2	–	–	–	–	–	–	–	–	–	–	0.0	18.3	–	–
CP1-3	–	–	–	–	–	–	–	–	–	–	0.0	16.3	–	–
CP1-4	–	–	–	–	–	–	–	–	–	–	0.0	15.9	–	–
CP1-5	–	–	–	–	–	–	–	–	–	–	0.0	15.8	–	–
CP1-7	–	–	–	–	–	–	–	–	–	–	0.0	17.5	–	–
CP1-9	–	–	–	–	–	–	–	–	–	–	0.0	18.3	–	–
CP1-11	–	–	–	–	–	–	–	–	–	–	0.0	17.9	–	–
CP1-13	–	–	–	–	–	–	–	–	–	–	0.0	17.8	–	–
GP-01 (for CP1-14)	–	–	–	–	–	–	–	–	–	–	0.0	19.6	–	–
GP-02 (for CP1b-1R)	–	–	–	–	–	–	–	–	–	–	0.0	14.2	–	–
CP1b-2R	–	–	–	–	–	–	–	–	–	–	0.0	19.8	–	–
CP1b-4R	–	–	–	–	–	–	–	–	–	–	0.0	19.5	–	–
CP1b-6R	–	–	–	–	–	–	–	–	–	–	0.0	19.6	–	–
TGP1b-E	–	–	–	–	–	–	–	–	–	–	0.0	20.3	–	–
TGP1b-A	–	–	–	–	–	–	–	–	–	–	0.0	17.6	–	–
TGP1b-F	–	–	–	–	–	–	–	–	–	–	0.0	20.6	–	–
TGP1b-B	–	–	–	–	–	–	–	–	–	–	0.0	15.7	–	–
TGP1b-G	–	–	–	–	–	–	–	–	–	–	0.0	19.7	–	–
TGP1b-C	–	–	–	–	–	–	–	–	–	–	0.0	19.6	–	–
TGP1b-H	–	–	–	–	–	–	–	–	–	–	0.0	20.4	–	–
TGP1b-D	–	–	–	–	–	–	–	–	–	–	0.0	20.2	–	–
GP-03	–	–	–	–	–	–	–	–	–	–	0.0	19.6	–	–
TGP-82	–	–	–	–	–	–	–	–	–	–	0.0	18.7	–	–
GP-04	–	–	–	–	–	–	–	–	–	–	0.0	18.9	–	–
TGP-83	–	–	–	–	–	–	–	–	–	–	0.0	19.6	–	–
CP2-1	–	–	–	–	–	–	–	–	–	–	0.0	20.7	–	–
CP2-2	–	–	–	–	–	–	–	–	–	–	0.0	20.4	–	–
CP2-4R	–	–	–	–	–	–	–	–	–	–	0.0	18.9	–	–
CP2-5R	–	–	–	–	–	–	–	–	–	–	0.0	19.2	–	–
CP-6R	–	–	–	–	–	–	–	–	–	–	0.0	19.4	–	–
CP2-7	–	–	–	–	–	–	–	–	–	–	0.0	19.2	–	–
CP2-9	–	–	–	–	–	–	–	–	–	–	0.0	19.8	–	–
TGP-06	–	–	–	–	–	–	–	–	–	–	0.0	20.1	–	–
TGP-East	–	–	–	–	–	–	–	–	–	–	0.0	18.7	–	–
TGP-Dads	–	–	–	–	–	–	–	–	–	–	0.0	20.1	–	–
CP3-1RR	–	–	–	–	–	–	–	–	–	–	0.0	19.1	–	–
CP3-2R	–	–	–	–	–	–	–	–	–	–	0.0	20.5	–	–
CP3-4R	–	–	–	–	–	–	–	–	–	–	0.0	20.9	–	–
CP3-5R	–	–	–	–	–	–	–	–	–	–	0.0	20.8	–	–
CP3-7R	–	–	–	–	–	–	–	–	–	–	0.0	20.3	–	–
CP3-8R	–	–	–	–	–	–	–	–	–	–	0.0	20.7	–	–
CP3-9	–	–	–	–	–	–	–	–	–	–	0.0	19.0	–	–
CP3-10R	–	–	–	–	–	–	–	–	–	–	0.0	20.8	–	–
CP3-12R	–	–	–	–	–	–	–	–	–	–	0.0	20.1	–	–
CP3-13R	–	–	–	–	–	–	–	–	–	–	0.0	20.0	–	–
CP3-14R	–	–	–	–	–	–	–	–	–	–	0.0	19.4	–	–
CP3-15R	–	–	–	–	–	–	–	–	–	–	0.0	20.7	–	–
TGP-89	–	–	–	–	–	–	–	–	–	–	0.0	20.2	–	–
CP4-A	–	–	–	–	–	–	–	–	–	–	0.0	20.0	–	–
CP4-B	–	–	–	–	–	–	–	–	–	–	0.0	19.6	–	–
CP4-C	–	–	–	–	–	–	–	–	–	–	0.0	16.0	–	–
CP4-1	–	–	–	–	–	–	–	–	–	–	0.0	10.1	–	–
CP4-2	–	–	–	–	–	–	–	–	–	–	0.0	19.8	–	–
CP4-3	–	–	–	–	–	–	–	–	–	–	0.0	20.0	–	–
CP4-4	–	–	–	–	–	–	–	–	–	–	0.0	18.3	–	–
CP4-6	–	–	–	–	–	–	–	–	–	–	0.0	19.6	–	–
CP5-1R	–	–	–	–	–	–	–	–	–	–	0.0	19.1	–	–
CP5-3R	–	–	–	–	–	–	–	–	–	–	0.0	19.1	–	–
CP5-4R	–	–	–	–	–	–	–	–	–	–	0.0	16.6	–	–
CP5-6	–	–	–	–	–	–	–	–	–	–	0.0	17.3	–	–
CP5-8	–	–	–	–	–	–	–	–	–	–	0.0	17.2	–	–

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)

	14-Apr		15-Apr		16-Apr		17-Apr		18-Apr		19-Apr		20-Apr	
Compliance Probes	**CH4**	**O2**	**CH4**	**O2**	**CH4**	**O2**	**CH4**	**16.3**	**CH4**	**O2**	**CH4**	**O2**	**CH4**	**O2**
TGP-76	–	–	–	–	–	–	–	–	–	–	–	–	0.0	7.5
TGP-63	–	–	–	–	–	–	–	–	–	–	–	–	0.0	18.0
TGP-57	–	–	–	–	–	–	–	–	–	–	–	–	0.0	20.7
TGP-62	–	–	–	–	–	–	–	–	–	–	–	–	0.0	13.3
GP-12	–	–	–	–	–	–	–	–	–	–	–	–	0.0	18.6
TGP-60	–	–	–	–	–	–	–	–	–	–	–	–	0.0	19.5
TGP-65	–	–	–	–	–	–	–	–	–	–	–	–	0.0	18.8
TGP-66	–	–	–	–	–	–	–	–	–	–	–	–	0.0	19.2
TGP-67	–	–	–	–	–	–	–	–	–	–	–	–	0.0	20.0
TGP-68	–	–	–	–	–	–	–	–	–	–	–	–	0.0	17.1
TGP-53	–	–	–	–	–	–	–	–	–	–	–	–	0.0	15.3
TGP-59	–	–	–	–	–	–	–	–	–	–	–	–	0.0	19.3
TGP-58	–	–	–	–	–	–	–	–	–	–	–	–	0.0	19.0
GP-14	–	–	–	–	–	–	–	–	–	–	–	–	0.0	19.0
TGP-87	–	–	–	–	–	–	–	–	–	–	–	–	0.0	19.7
TGP-88	–	–	–	–	–	–	–	–	–	–	–	–	0.0	20.3
TGP-69	–	–	–	–	–	–	–	–	–	–	0.0	20.5	–	–
TGP-90	–	–	–	–	–	–	–	–	–	–	0.0	19.8	–	–
GP-17	–	–	–	–	–	–	–	–	–	–	0.0	17.3	–	–
TGP-91	–	–	–	–	–	–	–	–	–	–	0.0	20.2	–	–
GP-18	–	–	–	–	–	–	–	–	–	–	0.0	20.6	–	–
TGP-73	–	–	–	–	–	–	–	–	–	–	0.0	20.2	–	–
TGP-74	–	–	–	–	–	–	–	–	–	–	0.0	19.7	–	–
TGP-84	–	–	–	–	–	–	–	–	–	–	0.0	19.0	–	–
TGP-75	–	–	–	–	–	–	–	–	–	–	0.0	11.5	–	–
TGP-85	–	–	–	–	–	–	–	–	–	–	0.0	16.6	–	–
TGP-72	–	–	–	–	–	–	–	–	–	–	0.0	18.1	–	–
TGP-86	–	–	–	–	–	–	–	–	–	–	0.0	16.3	–	–
TGP-32	–	–	–	–	–	–	–	–	–	–	0.0	18.3	–	–

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(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:	Mar 31- Apr 06						Week of:	Apr 14- Apr 20					
Wellhead ID	Vacuum	Temp	CH4	O2	CO2	Bal	Wellhead ID	Vacuum	Temp	CH4	O2	CO2	Bal
LEG 1	-1.68	–	–	–	–	–	**LEG 1**	–	–	–	–	–	–
GV1-1	–	–	10.7	0.2	22	67	GV1-1	–	–	4.9	0.4	20	75
GV1-2	–	56	22.0	5.9	21	51	GV1-2	–	60	28.4	2.2	27	42
GV1-3	–	–	21.8	0.4	24	54	GV1-3	–	–	27.3	0.7	29	43
GV1-4	–	–	20.1	1.1	24	55	GV1-4	–	–	30.2	1.3	26	43
GV1-5	–	–	25.4	0.0	26	49	GV1-5	–	–	25.5	0.2	26	48
GV1-6	–	–	19.6	0.3	25	55	GV1-6	–	–	25.3	0.1	26	49
GV1-7	–	–	0.1	18.9	0.6	80	GV1-7	–	–	0.3	19.9	0.5	79
GV1-8	–	–	10.9	0.1	21	68	GV1-8	–	–	10.0	1.9	20	68
GV1-9	–	–	10.6	12.5	7.1	70	GV1-9	–	–	3.0	8.2	12	77
GV1-10X	–	–	8.6	0.0	20	71	**GV1-10X**	–	–	7.2	0.1	21	72
GV1-11	–	–	0.4	18.8	1.0	80	GV1-11	–	–	0.7	16.0	2.0	81
GV1-12	–	–	11.4	2.6	17	69	GV1-12	–	–	19.5	3.6	17	60
GV1-13	–	–	1.8	1.4	13	84	GV1-13	–	–	5.4	2.0	18	75
LEG 1b	-1.06	–	–	–	–	–	**LEG 1b**	–	–	–	–	–	–
GV1b-1	–	–	0.2	16.1	2.8	81	GV1b-1	–	–	0.4	17.7	2.6	79
GV1b-2	–	–	0.0	19.4	0.3	80	GV1b-2	–	–	0.1	19.4	0.3	80
GV1b-3	–	–	0.0	18.9	0.1	81	GV1b-3	–	–	1.5	19.1	2.2	77
GV1b-4	–	–	0.1	12.5	5.6	82	GV1b-4	–	–	0.4	14.6	4.7	80
GV1b-5	–	50	0.0	19.2	0.2	81	GV1b-5	–	56	0.0	20.6	0.2	79
LEG 2	-0.16	–	–	–	–	–	**LEG 2**	–	–	–	–	–	–
GV2-1	–	–	3.9	8.6	11	77	GV2-1	–	–	1.2	15.8	6	78
GV2-2	–	68	1.7	5.7	11	82	GV2-2	–	70	0.1	14.2	7	79
GV2-3	–	72	1.8	4.1	14	80	GV2-3	–	70	1.0	6.1	13	80
GV2-4	–	80	0.1	19.1	0.3	81	GV2-4	–	80	1.1	6.5	13	79
LEG 3	-0.11	–	–	–	–	–	**LEG 3**	–	–	–	–	–	–
GV3-1	–	–	43.2	0.3	27	30	GV3-1	–	–	44.8	0.3	27	28
GV3-2	–	–	53.8	0.0	28	18	GV3-2	–	–	48.6	1.3	25	25
GV3-3	–	–	13.6	2.3	13	71	GV3-3	–	–	5.6	8.1	11	75
GV3-4	–	62	25.1	0.0	21	54	GV3-4	–	80	14.3	1.8	18	66
GV3-5	–	–	6.4	5.2	10	78	GV3-5	–	–	3.0	5.4	11	81
GV3-6	–	–	2.9	3.0	12	82	GV3-6	–	–	3.9	2.5	12	82
GV3-7	–	–	0.9	5.1	7.1	87	GV3-7	–	–	1.2	7.4	10	81
GV3-8	–	–	0.8	12.4	4.6	82	GV3-8	–	–	0.3	13.9	4.2	82
GV3-9	–	–	12.6	0.9	14	73	GV3-9	–	–	2.5	5.3	11	81
GV3-10 X	–	–	3.0	2.8	13	81	**GV3-10 X**	–	–	1.2	4.3	11	84
GV3-11	–	–	4.9	0.0	17	78	GV3-11	–	–	2.5	1.1	16	80
GV3-12	–	–	10.2	1.2	16	73	GV3-12	–	–	4.5	2.6	15	78
GV3-13	–	–	10.0	4.4	15	71	GV3-13	–	–	5.4	4.5	14	76
GV3-14	–	–	27.9	0.1	20	52	GV3-14	–	–	24.3	0.2	20	56
LEG 3	–	–	–	–	–	–	**LEG 3**	–	–	–	–	–	–
LEG 4	-0.09	–	–	–	–	–	**LEG 4**	–	–	–	–	–	–
GV4-C	–	70	0.7	2.2	13	84	GV4-C	–	72	0.7	1.3	14	84
GV4-B	–	–	0.0	1.8	13	85	GV4-B	–	–	0.2	2.9	12	85
GV4-A	–	–	1.7	16.2	3.4	79	GV4-A	–	–	0.9	16.1	2.8	80
GV4-1	–	–	1.3	17.7	1.8	79	GV4-1	–	–	1.9	18.0	2.4	78
GV4-2	–	–	5.8	13.6	6.7	74	GV4-2	–	–	0.7	15.6	4.9	79
GV4-3	–	–	11.0	3.7	15	70	GV4-3	–	–	0.8	15.2	4.4	80
GV4-4 X	–	–	0.0	19.0	0.3	81	**GV4-4 X**	–	–	0.1	20.4	0.2	79
GV4-5	–	–	10.2	7.1	12	71	GV4-5	–	–	6.9	6.4	12	75
GV4-6	–	–	14.9	1.4	19	65	GV4-6	–	–	9.8	1.6	18	71
GV4-7	–	–	36.4	0.0	26	38	GV4-7	–	–	21.8	0.2	24	54
LEG 5	-0.08	–	–	–	–	–	**LEG 5**	–	–	–	–	–	–
GV5-1	–	80	50.5	0.5	27	22	GV5-1	–	80	40.6	0.3	26	33
GV5-2	–	–	48.4	0.0	28	24	GV5-2	–	–	35.2	1.0	24	40
GV5-3	–	–	22.0	0.1	16	62	GV5-3	–	–	5.3	17.5	4.2	73
GV5-4	–	–	15.1	0.8	11	73	GV5-4	–	–	3.6	16.1	5.2	75
GV5-5	–	–	7.6	0.0	15	77	GV5-5	–	–	0.5	4.2	10	85
GV5-6	–	–	8.4	0.9	13	78	GV5-6	–	–	5.1	16.1	5.3	74
GV5-7	–	–	5.9	0.5	15	79	GV5-7	–	–	4.0	15.6	5.0	75
GV5-8	–	–	0.0	16.4	2.4	81	GV5-8	–	–	0.0	18.9	1.4	80
GV5-9	–	–	0.0	10.5	6.4	83	GV5-9	–	–	0.0	19.2	1.3	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:	Mar 31- Apr 06						Week of:	Apr 14- Apr 20					
Supplement/Extraction Well	Valve Notch	Vacuum	CH4	O2	CO2	Bal	Supplement/ Extraction Well	Valve Notch	Vacuum	CH4	O2	CO2	Bal
EW-1	-0.75	–	12.2	6.5	16	65	EW-1	–	–	8.5	10.5	11	70
EW-2	-0.62	–	0.0	10.9	7.8	81	EW-2	–	–	0.0	11.5	7.3	81
EW-3	-0.54	–	26.9	0.7	19	53	EW-3	–	–	14.8	0.9	18	67
EW-4	–	–	27.1	0.5	25	47	EW-4	–	–	25.6	0.0	23	51
EW-5	–	–	37.2	0.0	26	37	EW-5	–	–	37.1	0.0	29	34
EW-6	–	–	28.6	3.9	22	46	EW-6	–	–	19.2	0.2	22	59
EW-7	–	–	16.9	8.5	14	61	EW-7	–	–	22.3	0.9	22	55
EW-8	–	–	25.2	0.0	15	60	EW-8	–	–	27.0	0.2	24	49
EW-9	–	–	33.9	0.0	26	40	EW-9	–	–	32.9	0.3	25	42
EW-10	–	–	2.2	1.4	16	80	EW-10	–	–	1.1	10.1	8.5	80
EW-11	-0.84	–	9.0	3.8	17	70	EW-11	–	–	5.1	9.7	12	73
EW-12	-0.70	–	1.4	9.3	9.3	80	EW-12	–	–	4.7	1.0	12	82
SW1	–	–	35.0	0.0	27	38	SW1	–	–	30.9	0.0	28	41
SW2	–	–	32.5	0.0	26	42	SW2	–	–	31.0	0.3	26	43
SW3	–	–	–	–	–	–	SW3	–	–	–	–	–	–
NW1	–	–	10.0	0.1	21	69	NW1	–	–	8.3	0.0	21	71
NW2	–	–	47.8	0.0	33	19	NW2	–	–	47.5	0.0	33	20
NW3	–	–	46.3	0.0	33	21	NW3	–	–	50.1	0.0	38	12
NW4	–	–	10.3	0.8	13	76	NW4	–	–	11.7	0.0	18	70
NW5	–	–	0.6	17.9	1.6	80	NW5	–	–	8.0	0.0	20	72
NW6	–	–	38.8	1.2	27	33	NW6	–	–	61.8	0.0	39	0
NW7	–	–	61.6	0.0	38	0	NW7	–	–	63.7	0.0	33	3
NW8	–	–	10.8	0.0	20	69	NW8	–	–	4.8	10.1	8.7	76
WC1	–	–	–	–	–	–	WC1	–	–	–	–	–	–
WC4	–	–	–	–	–	–	WC4	–	–	–	–	–	–
FLARE 90	–	-3.90	–	–	–	–	FLARE 90	–	-3.90	–	–	–	–

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