POSTGRADING METHANE SURVEY FOR THE PROPOSED CLOVERDALE RESIDENTIAL DEVELOPMENT, 13311 LIMONITE AVENUE, CITY OF EASTVALE, RIVERSIDE COUNTY, CALIFORNIA, ASSESSOR PARCEL NUMBER (APN) 164-030-019

Prepared For:

WILLIAM LYON HOMES

1265 Corona Pointe Court, Suite 105 Corona, California 92879

Project No. 10815.003

December 11, 2014



Leighton and Associates, Inc.

A LEIGHTON GROUP COMPANY



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Project No. 10815.003

To: William Lyon Homes 1265 Corona Pointe Court, Suite 105 Corona, California 92879

Attention: Mr. Bryan Bergeron

Subject: Postgrading Methane Survey for the Proposed Cloverdale Residential Development, 13311 Limonite Avenue, City of Eastvale, Riverside County, California, Assessor Parcel Number (APN) 164-030-019

INTRODUCTION

Leighton and Associates, Inc. (Leighton) is pleased to present this report summarizing the postgrading methane survey conducted for the proposed Cloverdale development, APN 164-030-019, located northeast of the intersection of Limonite Avenue and Sumner Avenue in the City of Eastvale, California (subject site, Figure 1). This report was produced in general accordance with the County of Riverside Department of Building and Safety methane protocol, dated November 1, 2004 (Riverside County, 2004) and as adopted by the City of Eastvale.

The subject site is 7.64 acres and is bounded by a residential tract to the north and east, Valencia Street to the northeast, Limonite Avenue to the south, and Sumner Avenue to the west. The surrounding land is occupied by single-family residential development.

BACKGROUND

Historically, the subject site has been used for agricultural purposes and as a dairy. The southern portion of the subject site was occupied by the former dairy's waste ponds. The remainder of the subject site was used as pasture land or for row crop agriculture.

SCOPE OF METHANE MONITORING WORK

The scope of our work for the soil gas sampling was based on the recommendations provided in the guidelines by the County of Riverside Building and Safety Department Methane Investigation Protocols (County of Riverside, 2004). The City of Eastvale has adopted the methane investigation protocols established by the County of Riverside Building and Safety Department. This protocol describes testing of individual lots; however it is Leighton's belief that testing of areas of similar use history can be accomplished through selective sampling and extending these results to adjoining lots. The methane investigation was performed in general accordance with the guidelines of Riverside County, and included the following:

- Oversight of soil gas probe installation and initial sampling by a mobile laboratory.
- Measurement of methane, fixed gases, and differential pressure using the GEM-2000 landfill gas analyzer (GEM 2000).
- Collection of 10 percent duplicate soil gas samples in Tedlar[™] bags for methane analysis by a fixed laboratory.
- Preparation of this report summarizing our findings and conclusions, including tables, illustrations, and appendices.

FIELD ACTIVITIES

SOIL GAS PROBE INSTALLATION

A total of 16 soil gas probes were installed across the subject site. The locations of soil gas probes were chosen based on the proposed development plan for the subject site. The plan includes 32 multi-family residential structures arranged in 16 blocks. One probe was installed in the location of each of the 16 blocks. Soil gas probe locations 5 through 9 (Figure 2) are located within the area occupied by the former dairy waste pond.

On October 24, 2014, Leighton contracted with Millennium Environmental to install the 16 single sample port soil gas probes below the native soil and fill interface, at depths ranging from 5 to 12 feet below ground surface (bgs). Utilizing current grading plans, each probe



was advanced approximately 1 foot below the compacted fill into the undisturbed native material.

The distribution of the probes, and therefore the soil gas samples, is considered to be representative of the planned development at the subject site. The soil gas probe consisted of 1/4 inch NylaflowTM tubing tipped with an AirstoneTM soil gas probe implant tip. The soil gas probes were sealed with rubber end caps. The soil gas probes were installed with a minimum of six inches of sand filter pack above and below the probe depth. A six-inch layer of hydrated granular bentonite was placed above the sand filter pack to seal the soil gas probe from leakage to the atmosphere. The remainder of the soil boring was backfilled to the surface with alternating layers of hydrated and dry granular bentonite.

SOIL GAS PROBE MONITORING

On October 24, 2014, the first soil gas sampling event was conducted by an A&R mobile laboratory. A volume of soil gas that was calculated to be equivalent to three times the volume of the tubing and pore space of the sand filter pack was purged from each soil gas probe prior to collecting a representative soil gas sample. During the initial sampling event, Leighton and A&R collected and analyzed duplicate samples to check soil gas results.

Soil gas pressure readings were obtained by the laboratory from each soil gas probe prior to sampling. A magnahelic pressure gauge was used to make the relative soil gas pressure measurements. Barometric pressure readings were noted prior to sampling the probes during the sampling event. Three additional field monitoring events were conducted on October 31, November 10, and November 14, 2014, using a Landtec[™] GEM-2000. Soil methane concentrations in soil gas probes SGP-5-12 through SGP-8-12 were not measured during the subsequent monitoring events as their methane concentrations were found to be greater than the 15,000 parts per million by volume (ppmv) action level specified in the Riverside County Methane Investigation Protocol (Riverside County, 2004) (Table 1) during the first event.

The depths of the soil vapor probe and soil vapor analytical data is presented in Table 1. The locations of the soil vapor probes are shown on the Sample Plan (Figure 2).

DUPLICATE SAMPLES

During the initial and subsequent sampling events, one duplicate soil gas sample was collected from 10 percent of the soil vapor probes as part of quality control protocols.



When possible, duplicate samples were collected from the probe with the highest field measured concentrations of methane.

SAMPLE ANALYSIS

Methane soil gas samples were initially collected and analyzed by A&R mobile laboratory personnel. The samples were analyzed on-site by a mobile laboratory using U.S. Environmental Protection Agency (EPA) Method 8015M for methane. Subsequent rounds of soil gas sampling were performed by Leighton personnel in the field using a Landtec™ GEM-2000 calibrated with standard gas canisters for methane, carbon dioxide, and oxygen. Duplicate samples were collected in one liter Tedlar[™] bags and shipped under chain of custody procedures to A&R for analysis. Duplicate samples were analyzed by U.S. EPA Method 8015M for methane. During the October 31, 2014 sampling event, a "rotten egg" odor was detected during the purging of the soil gas probes. On November 10, 2014, two Tedlar[™] bag samples were collected, one sample from soil gas probe SGP-10-10 and one from soil gas probe SGP-6-12. Both samples were analyzed for methane by US EPA Method 8015M and hydrogen sulfide by US EPA Method 16 to investigate the source of the odor. A copy of the laboratory analytical reports and chainof-custody documents are included in Appendix B.

<u>RESULTS</u>

Following sampling by the mobile laboratory, the soil gas probes were sampled using the GEM-2000. One duplicate soil gas sample (SGP-9-12) was taken on October 31, 2014, two duplicate soil gas samples (SGP-6-12 and SGP-10-10) were collected on November 10, 2014, and one duplicate soil gas sample (SGP-6-12, each of the duplicate samples contained concentrations of methane below the methane action level of 15,000 ppmv.

The subsequent rounds of field monitoring using the GEM-2000 did not identify methane at concentrations greater than 15,000 ppmv in the soil gas probes on the subject site with the exception of probes SGP-5-12 through SGP-8-12. The duplicate samples were analyzed by A&R. The methane concentrations reported by the fixed laboratory ranged from 2,390 ppmv in SGP-10-10 to 40,500 ppmv in SGP-6-12

Hydrogen sulfide concentrations ranged between <1.0 ppmv in SGP-10-10 and 11 ppmv in SGP-6-12.



In order to quantitatively compare the GEM 2000 field instrument data and the laboratory analytical data, a percent difference calculation was performed for each sample for which there were field instrument data and laboratory analytical data. The maximum relative percent difference calculated for the subject site data was 55%. A relative percent difference of less than 100% indicates good agreement between laboratory data and GEM 2000 monitoring data. Therefore, the relative percent difference calculations show acceptable agreement between laboratory analyses and the corresponding GEM 2000 data (Table 1).

RECOMMENDATIONS

Portions of the subject site have been evaluated to contain methane concentrations greater than the action level of 15,000 ppmv set by the County of Riverside Department of Building and Safety for mitigation design engineering requirements. Based on detected methane concentrations in soil gas probes SGP-5 through SGP-8, Leighton recommends that the lots in that area receive a sub-slab ventilation system, trench dams, and vapor barrier in accordance with a detailed methane mitigation design, installation and inspection. In addition, utilities open to living space atmosphere, such as electrical and communications, should have a vapor plug inside of the utility above the slab.

The residential blocks that will be constructed in areas with subsurface methane concentrations between 1,000 and 15,000 ppmv should also have methane mitigation design, installation and inspection. The design should include a 10-mil vapor retarder and seals on all utility conduit penetration points. In addition, utilities open to living space atmosphere, such as electrical and communications, should have a vapor plug inside of the utility above the slab.

Leighton recommends the client submit a copy of this report to the City of Eastvale Department of Building and Safety for their review and approval.



If you have any questions regarding our report, please contact this office. We appreciate this opportunity to be of service.

Respectfully submitted,

Richard ORR VI Cop 130-2015 No.PG 7199 VI Cop 1-30-2015 No.PG 7199 Richard Ass

LEIGHTON AND ASSOCIATES, INC.

Richard L. Orr, PG 7199

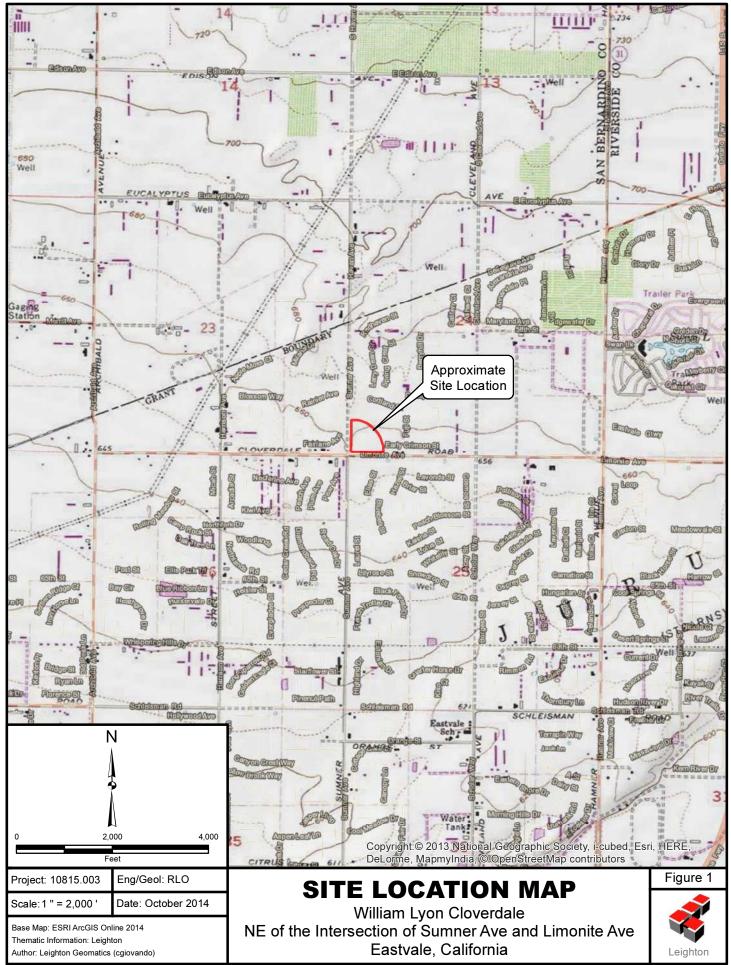
Associate Geologist

ZAF/RLO/rsm

Attachments: Figure 1 - Site Location Map Figure 2 - Soil Gas Probe Locations Figure 3 - Methane Soil Gas Survey Analytical Results Table 1 - Summary of Methane Analyses Appendix A - References Appendix B - Analytical Results and Chain of Custody Documentation

Distribution: (3) Addressee + CD ROM





Map Saved as V:\drafting\10815\003\Maps\10815-003_F01_SLM_2014-10-18.mxd on 10/20/2014 12:02:35 AM



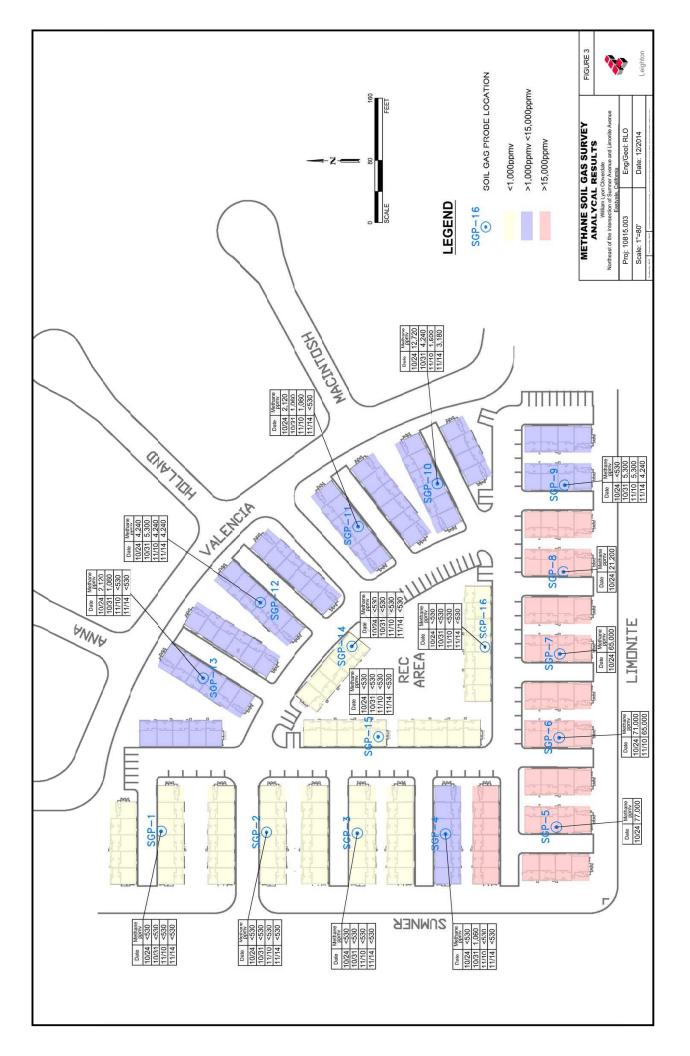


Table 1 Summary of Methane Analyses William Lyon Cloverdale City of Eastvale, California

Soil Gas Probe ID	Soil Gas Probe Depth Feet bgs	Graded Soil to Native Interface	Date	Field Testing Methane (ppmv)	Lab Analytical Methane (ppmv)	Lab Analytical Hydrogen Sulfide (ppmv)	Mobile Lab Analytical Methane (ppmv)	Carbon Dioxide (% volume)		Nitrogen (% volume)	Barometric Pressure (Inches of Mercury)	Relative Pressure (Inches of Water)	Relative Percent Difference
			10/24/2014	<530	-	-	350	2.0	15.2	82.8	29.12	-0.09	NA
SGP-1-10	10	10	10/31/2014 11/10/2014	<530 <530	-	-	-	14.5 12.7	9.7 11.1	75.8 76.2	29.30 29.08	-0.12 -0.05	-
			11/10/2014	<530	-	-	-	12.7	11.1	76.2	29.08	-0.05	-
			10/24/2014	<530			<10	9.5	7.5	83.0	29.12	0.05	NA
			10/31/2014	<530	-	-	-	16.6	6.6	76.8	29.30	-0.14	-
SGP-2-10	10	10	11/10/2014	<530	-	-	-	16.6	5.8	77.6	29.08	-0.04	-
			11/14/2014	<530	-	-	-	15.2	9.1	75.7	29.28	-0.05	-
			10/24/2014	<530	-	-	290	22.1	0.0	77.9	29.12	0.13	NA
SGP-3-10	10	9	10/31/2014 11/10/2014	<530	-	-	-	22.4 22.7	0.6	77.0	29.30 29.08	-0.15	-
			11/10/2014	<530 <530	-	-	-	22.7	0.0	77.3 77.4	29.08	-0.04 0.01	-
			10/24/2014	<530	-		930	21.8	0.8	76.9	29.20	0.01	NA
			10/31/2014	1,060	-		-	23.8	0.3	75.8	29.30	-0.14	-
SGP-4-10	10	10	11/10/2014	<530	-	-	-	23.8	0.0	76.2	29.08	-0.04	-
			11/14/2014	<530	-	-	-	23.0	0.7	76.3	29.28	-0.02	
SGP-5-12 1PV	12	12	10/24/2014	-	-	-	58,000	-	-	-	29.12	-	-
SGP-5-12 3PV	12	12	10/24/2014	-	-	-	61,000	-	-	-	29.12	-	-
			10/24/2014	77,000	-	-	65,000	31.7	1.0	56.6	29.12	0.00	17
SGP-5-12 10PV	12	12	10/31/2014	-	-	-	-	-	-	-	29.30	-	-
			11/10/2014 11/14/2014		-	-	-	-	-		29.08 29.28	-	-
			10/24/2014	64,000	-	-	62,000	- 25.4	2.9	- 65.3	29.28	0.10	3
			10/31/2014		-	-	-	-	-	-	29.30	-	-
SGP-6-12	12	12	11/10/2014	71,000	40,500	11	-	32.3	0.0	60.6	29.10	-0.71	55
			11/14/2014	-	-	-	-	-	-	-	29.28	-	-
			10/24/2014	65,000	-	-	62,000	26.9	3.2	63.4	29.12	0.00	5
SGP-7-12	12	12	10/31/2014	-	-	-	-	-	-	-	29.30	-	-
001 7 12	12	12	11/10/2014	-	-	-	-	-	-	-	29.08	-	
			11/14/2014	-	-	-	-	-	-	-	29.28	-	-
			10/24/2014 10/31/2014	21,200	-	-	35,000	14.1	8.9	75.0	29.12	-0.42	49
SGP-8-12	12	12	11/10/2014	-	-	-	-	-	-	-	29.30 29.08	-	-
			11/10/2014	-	-	-	-	-	-	-	29.08	-	-
			10/24/2014	<530	-	-	220	2.2	14.0	83.8	29.12	0.03	
SGP-9-12	40	40	10/31/2014	5,300	6,100	-	-	26.3	1.7	71.5	29.30	-0.02	14
5GP-9-12	12	12	11/10/2014	5,300	-	-	-	29.2	0.1	70.2	29.08	-0.01	-
			11/17/2014	4,240	-	-	-	28.8	0.4	70.8	29.28	-0.68	
			10/24/2014	12,720	-	-	11,000	25.3	0.2	73.3	29.12	-0.03	15
SGP-10-10	10	10	10/31/2014	4,240	-	-	-	15.6	9.1	74.9	29.30	-0.07	-
			11/10/2014 11/17/2014	1,590	2,390	<1.0	-	19.9 17.4	9.1	74.7 74.7	29.07 29.28	-0.01	40
			10/24/2014	3,180 2,120	-	-	2,100	22.4	7.6 0.8	74.7	29.28	0.66	- 1
			10/24/2014	1,060	-	-	- 2,100	19.8	5.4	76.6	29.12	0.10	-
SGP-11-10	10	10	11/10/2014	1,060	-	-	-	20.6	6.9	72.4	29.07	-0.15	-
			11/14/2014	<530	-	-	-	22.4	0.7	76.9	29.28	0.02	-
			10/24/2014	4,240	-	-	6,200	22.4	1.0	76.2	29.12	0.10	38
SGP-12-10	10	10	10/31/2014	5,300	-	-	-	25.0	0.4	74.1	29.30	0.00	-
001 12-10	10	10	11/10/2014	4,240	-	-	-	24.9	0.5	74.2	29.08	0.00	-
			11/14/2014	4,240	7,400	-	-	24.3	0.6	74.7	29.28	0.05	54
			10/24/2014	2,120	-	-	1,400	15.1	1.5	83.2	29.12	0.04	41
SGP-13-10	10	10	10/31/2014 11/10/2014	1,060 <530	-	-	-	18.9 18.6	1.1 2.3	79.9 79.1	29.30 29.08	-0.11	-
			11/10/2014	<530	-	-	-	17.9	2.3	80.1	29.08	-0.05	-
			10/24/2014	<530	-	-	550	21.5	0.6	77.9	29.12	0.17	· ·
SOD 44 40	10	10	10/31/2014	<530	-	-	-	22.0	1.2	76.8	29.30	-0.16	-
SGP-14-10	10	10	11/10/2014	<530	-	-	-	22.5	0.7	76.8	29.08	0.00	-
			11/14/2014	<530	-	-	-	21.8	0.7	77.5	29.28	-0.02	-
			10/24/2014	<530	-	-	<10	7.5	11.5	81.0	29.12	0.11	-
SGP-15-5	5	5	10/31/2014	<530	-	-	-	6.5	15.9	77.6	29.30	0.00	-
	-		11/10/2014	<530	-	-	-	6.0	16.7	77.3	29.08	0.00	· ·
	5	2	11/14/2014	<530	-	-	-	5.1	18.2	76.7	29.28	-0.03	· ·
SGP-15-5-DUP	5	3	10/24/2014 10/24/2014	- <530	-	-	<10 <10	- 12.1	- 7.2	- 80.7	29.12 29.12	- 0.10	-
			10/24/2014	<530	-	-	-	8.9	13.5	77.6	29.12	0.10	-
SGP-16-5	5	3	11/10/2014	<530	-	-	-	8.2	14.5	77.3	29.08	0.00	-
			11/14/2014	<530	-	-	-	6.9	17.0	76.1	29.28	0.04	-

 Notes:
 bgs = below ground surface

 ppmv = parts per million by volume
 bgs = below ground surface

 ND<10 = Non-detect, concentration is below the mobile laboratory reporting limit</td>
 ND<530 = Non-detect, concentration is below the detection limit of the GEM-2000 landfill gas analyzer</td>

APPENDIX A

REFERENCES

APPENDIX A

References

California Environmental Protection Agency, Department of Toxic Substances Control, 2003, Advisory – Active Soil Gas Investigations, Department of Toxic Substances Control and the California Regional Water Quality Control Board, Los Angeles Region, dated January 28, 2003.

County of Riverside Building and Safety Department, 2004, *Memorandum – Subject: Methane Protocol*, http://www.rctlma.org/building/content/docs/methane_protocol_design_guide. Pdf, dated November 1, 2004, accessed October 9, 2013.

APPENDIX B

LABORATORY ANALYTICAL REPORTS AND CHAIN OF CUSTODY DOCUMENTATION



Formerly Microbac Southern California 1650 S. GROVE AVE., SUITE C ONTARIO, CA 91761 951-779-0310 FAX 95 www.arlaboratories.com office@a

FAX 951-779-0344 office@arlaboratories.com FDA# 2030513 LA City# 10261 ELAP#'s 2789 2790 2122

CHEMISTRY · MICROBIOLOGY · FOOD SAFETY · MOBILE LABORATORIES FOOD · COSMETICS · WATER · SOIL · SOIL VAPOR · WASTES

CASE NARRATIVE

Authorized Signature Name / Title (print)		Ken Zheng, Presi	dent			
Signature / Date		Ken 3	heng Ken ZHeng, President 10/28/2014 10:55:41			
Laboratory Job No. (Certificate of Analysis No.)		1410-00108				
Project Name / No.		Limonite & Sumn	er, Eastvale, CA 10815.	003		
Dates Sampled (from/to)		10/24/14 To 10/2	24/14			
Dates Received (from/to)		10/24/14 To 10/2	24/14			
Dates Reported (from/to)		10/28/14 To 10/2	28/2014			
Chains of Custody Received		Yes				
Comments:						
Subcontracting						
Organic Analyses						
No analyses sub-contracted						
Sample Condition(s) All samples intact						
Positive Results (Organic Compounds)						
Sample Analyte Result	Qual Units RL			Result Qua	al Units	RL
SGP-5-12-1PV Methane 5800	0 ppmv 15	SGP-5-12-3PV	Methane	61000	ppmv	15
SGP-5-12-10PV Methane 6500	0 ppmv 15	SGP-6-12	Methane	62000	ppmv	15
SGP-7-12 Methane 6200	0 ppmv 15	SGP-8-12	Methane	35000	ppmv	15
SGP-9-12 Methane 22	0 ppmv 15	SGP-10-10	Methane	11000	ppmv	15
SGP-11-10 Methane 210	0 ppmv 15	SGP-12-10	Methane	6200	ppmv	15
SGP-13-10 Methane 140		SGP-1-10	Methane	350	ppmv	15
SGP-3-10 Methane 29		SGP-4-10	Methane	930	ppmv	15
SGP-14-10 Methane 55	0 ppmv 15					



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FAX 951-779-0344 office@arlaboratories.com FDA# 2030513 LA City# 10261 ELAP#'s 2789 2790 2122

 $\label{eq:chemistry} CHEMISTRY \cdot MICROBIOLOGY \cdot FOOD SAFETY \cdot MOBILE LABORATORIES FOOD \cdot COSMETICS \cdot WATER \cdot SOIL \cdot SOIL VAPOR \cdot WASTES$

CERTIFICATE OF ANALYSIS

1410-00108		
LEIGHTON AND ASSOCIATES	Date Reported 10/28/14	
Zach Freeman	Date Received 10/24/14	
10532 ACACIA STREET, SUITE B-6	Invoice No. 72461	
RANCHO CUCAMONGA, CA 91730	Cust # 2155	
	Permit Number	
Project: Limonite & Sumner, Eastvale, CA	Customer P.O. 10815.003	

Analysis	Result	Qual	Units	Method	DF	MDL	RL	Date	Time	Tech
Sample: 001 SGP-5-12-1PV Sample Matrix: Soil Vapor					Dat	e & Time Samp	oled:	10/24/14	@	9:24
Methane	58000		ppmv	EPA 8015B	1	10	15	10/24/14	8:30	HXE
Sample: 002 SGP-5-12-3PV Sample Matrix: Soil Vapor					Dat	e & Time Samp	oled:	10/24/14	@	9:36
Methane	61000		ppmv	EPA 8015B	1	10	15	10/24/14	8:30	HXE
Sample: 003 SGP-5-12-10PV Sample Matrix: Soil Vapor					Dat	e & Time Samp	oled:	10/24/14	@	9:59
Methane	65000		ppmv	EPA 8015B	1	10	15	10/24/14	8:30	HXE
Sample: 004 SGP-6-12 Sample Matrix: Soil Vapor					Dat	e & Time Samp	oled:	10/24/14	@	10:34
Methane	62000		ppmv	EPA 8015B	1	10	15	10/24/14	8:30	HXE
Sample: 005 SGP-7-12 Sample Matrix: Soil Vapor					Dat	e & Time Samp	oled:	10/24/14	@	10:41
Methane	62000		ppmv	EPA 8015B	1	10	15	10/24/14	8:30	HXE
Sample: 006 SGP-8-12 Sample Matrix: Soil Vapor					Dat	e & Time Samp	oled:	10/24/14	@	11:01
Methane	35000		ppmv	EPA 8015B	1	10	15	10/24/14	8:30	HXE
Sample: 007 SGP-9-12 Sample Matrix: Soil Vapor					Dat	e & Time Samp	oled:	10/24/14	@	11:10
Methane	220		ppmv	EPA 8015B	1	10	15	10/24/14	8:30	HXE
Sample: 008 SGP-10-10 Sample Matrix: Soil Vapor					Dat	e & Time Samp	oled:	10/24/14	@	11:30
Methane	11000		ppmv	EPA 8015B	1	10	15	10/24/14	8:30	HXE
Sample: 009 SGP-11-10 Sample Matrix: Soil Vapor					Dat	e & Time Samp	oled:	10/24/14	@	11:45
Methane	2100		ppmv	EPA 8015B	1	10	15	10/24/14	8:30	HXE
Sample: 010 SGP-12-10 Sample Matrix: Soil Vapor					Dat	e & Time Samp	oled:	10/24/14	@	12:20

The data and information on this, and other accompanying documents, represent only the sample(s) analyzed and is rendered upon condition

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FAX 951-779-0344 office@arlaboratories.com FDA# 2030513 LA City# 10261 ELAP#'s 2789 2790 2122

 $CHEMISTRY \cdot MICROBIOLOGY \cdot FOOD SAFETY \cdot MOBILE LABORATORIES FOOD \cdot COSMETICS \cdot WATER \cdot SOIL \cdot SOIL VAPOR \cdot WASTES$

CERTIFICATE OF ANALYSIS

1410-00108		
LEIGHTON AND ASSOCIATES	Date Reported	10/28/14
Zach Freeman	Date Received	10/24/14
10532 ACACIA STREET, SUITE B-6	Invoice No.	72461
RANCHO CUCAMONGA, CA 91730	Cust #	2155
	Permit Number	
Project: Limonite & Sumner, Eastvale, CA	Customer P.O.	10815.003

Analysis	Result	Qual	Units	Method	DF	MDL	RL	Date	Time	Tech
Sample: 010 SGP-12-10 Sample Matrix: Soil Vapor					D	ate & Time Sam	pled:	10/24/14	@	12:20
Methane	6200		ppmv	EPA 8015B	1	10	15	10/24/14	8:30	HXE
Sample: 011 SGP-13-10 Sample Matrix: Soil Vapor					D	ate & Time Sam	pled:	10/24/14	@	13:04
Methane	1400		ppmv	EPA 8015B	1	10	15	10/24/14	8:30	HXE
Sample: 012 SGP-1-10 Sample Matrix: Soil Vapor					D	ate & Time Sam	pled:	10/24/14	@	13:25
Methane	350		ppmv	EPA 8015B	1	10	15	10/24/14	8:30	HXE
Sample: 013 SGP-2-10 Sample Matrix: Soil Vapor					D	ate & Time Sam	pled:	10/24/14	@	13:47
Methane	<10)	ppmv	EPA 8015B	1	10	15	10/24/14	8:30	HXE
Sample: 014 SGP-3-10 Sample Matrix: Soil Vapor					D	ate & Time Sam	pled:	10/24/14	@	14:14
Methane	290		ppmv	EPA 8015B	1	10	15	10/24/14	8:30	HXE
Sample: 015 SGP-4-10 Sample Matrix: Soil Vapor					D	ate & Time Sam	pled:	10/24/14	@	14:36
Methane	930		ppmv	EPA 8015B	1	10	15	10/24/14	8:30	HXE
Sample: 016 SGP-14-10 Sample Matrix: Soil Vapor					D	ate & Time Sam	pled:	10/24/14	@	15:05
Methane	550		ppmv	EPA 8015B	1	10	15	10/24/14	8:30	HXE
Sample: 017 SGP-16-5 Sample Matrix: Soil Vapor					D	ate & Time Sam	pled:	10/24/14	@	15:26
Methane	<10)	ppmv	EPA 8015B	1	10	15	10/24/14	8:30	HXE
Sample: 018 SGP-15-5 Sample Matrix: Soil Vapor					Di	ate & Time Sam	pled:	10/24/14	@	15:44
Methane	<10)	ppmv	EPA 8015B	1	10	15	10/24/14	8:30	HXE
Sample: 019 SGP-15-5-DUP Sample Matrix: Soil Vapor					Di	ate & Time Sam	pled:	10/24/14	@	15:44

The data and information on this, and other accompanying documents, represent only the sample(s) analyzed and is rendered upon condition

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FAX 951-779-0344 office@arlaboratories.com FDA# 2030513 LA City# 10261 ELAP#'s 2789 2790 2122

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CERTIFICATE OF ANALYSIS

1410-00108		
LEIGHTON AND ASSOCIATES	Date Reported	10/28/14
Zach Freeman	Date Received	10/24/14
10532 ACACIA STREET, SUITE B-6	Invoice No.	72461
RANCHO CUCAMONGA, CA 91730	Cust #	2155
	Permit Number	
Project: Limonite & Sumner, Eastvale, CA	Customer P.O.	10815.003

Analysis	Result	Qual	Units	Method	DF	MDL	RL	Date	Time	Tech
Sample: 019 SGP-15-5-DUP Sample Matrix: Soil Vapor					[Date & Time Sa	mpled:	10/24/1	L4 @	15:44
Methane	<1	0	ppmv	EPA 8015B	1	10	15	10/24/14	8:30	HXE

Respectfully Submitted:

Ken Sheng Ken Zheng - President

QUALIFIERS

B = Detected in the associated Method Blank at a concentration above the routine RL.

B1 = BOD dilution water is over specifications . The reported result may be biased high.

D = Surrogate recoveries are not calculated due to sample dilution.

E = Estimated value; Value exceeds calibration level of instrument.

H = Analyte was prepared and/or analyzed outside of the analytical method holding time

I = Matrix Interference.

J = Analyte concentration detected between RL and MDL.

Q = One or more quality control criteria did not meet specifications. See Comments for further explanation.

S = Customer provided specification limit exceeded.

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ABBREVIATIONS

DF = Dilution Factor RL = Reporting Limit, Adjusted by DF MDL = Method Detection Limit, Adjusted by DF Qual = Qualifier Tech = Technician



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Page 1 of 1

			СН						Y · MOBILE LAB					
					QUA	LITY CO	NTROL	DA	TA REPORT					
LEI	GHTON AND AS	SOCIAT	TES			14	10-001	80						
RAN	NCHO CUCAMO	NGA, CA	A 91730							Date Reporte Date Receive		10/28/2		
										Date Receive Date Sample		10/24/2 10/24/2		
										Invoice No.	u	72461		
D	T	C								Customer #		2155		
Proje	ct: Limonite &	Sumn	er, Easi	tvale, CA						Customer P.	0.	10815.	003	
Method #	EPA 8015B													
QC Referen		Date Anal	yzed: 10/24	/2014	Techi	nician: HXE								
Samples	001 002 003 004	005 006	007 008	009 010 0	11 012 0	13 014 015	016 017		Control Range	.				
Results	LCS %REC	LCS %DUP	LCS %RPD)						S %RPD				
Methane	90	96	7						70 - 130	0 - 25				
Method	d blank results													
Ref 44929	Test Name Methane		Result <10	Qualif	Units ppmv	MDL 10	Ref	Tes	st Name	Result	Qualif	Units	MDL	
	Respectfully	Submit	tted:		Ker	n 3h	eng							
					Ken	Zheng - Pi	resident							

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A & R Laboratories 1650 S. Grove Ave., Ste C, Ontario, CA 91761 Tel: 909-781-6335 / 951-779-0310 Fax: 951-779-0344

CHAIN OF CUS

1410 - 108

Client Name Leighton and Associates	when and a	Associat	52			Chilled			Ar	alys	es r	Anaryses nequested		Turn Around Time Requested
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Report Attention Pt		1-484-217 0		Sampled By		Sample Seal		(əuil		Chain C		, mrotilo		8 12 24 48 Hours
Project /0%15.003 No./ Name	40	Project Site	Le and	Comment	. Eastwa	lesca	3TEX &	oseÐ) ē	5 (Diese Diesenoch	(Sabon	O) 0002	oO ,.1nO		MOBILE
Lab # Client		ample C	Sample Collection	Matrix	Sample	No., type*		108/	A180	COLE STREET	_	Plate		
(Lab use) Sample ID	e ID	Date	Time	Type	Preserve	ner		TRUL	EPA8(8 A93 8 A93		C.F. Micro:		Remarks
1 56P-5-12-1PV	~	10/24/14	9:24	Vapor	No	125 (c 3 1855 5 01 15						×		
2 56P-5-12	12-3PV		9:36	_								×		
3 SGP-5-12-10PV	2-10PV		9:59									X		
4 56P-6-12	2		10:34									X		
5 S6P-7-1	17		10:41		-							X		
6 568-8-12	12		10:11									X		
7 S6P-9-	12	_	01:11									X		
8 S6P-10-	10-10		11:30							_		×		
9 568-11	-10	-	11:45									X		
10 568-12	-10	_	12:20									X		
11 562-13	-10		13:04									X		
12 568-1-1	10		13:25									×		
13 S6P-2	01-		13:47									\times		
14 568-3-10	-10	-	H1:11									X		
15 56P-4-10	10	A	14:36	~	\geq		_					X		
Relinquished By	Company	10	hr 16	-	Raceived By	Company	10	Date Date	Time 16:00		ote:	Samples are di	Note: Samples are discarded 30 days after results are	fter results are
Relifinguished By	Company	Dafe		Time	Received By	Company	-	Dalé	Time			reported unles.	reported uniess other arrangements are made.	nts are made.
Matrix Code: D	DW=Drinking Water GW=Ground Water WW=Waste Water		SL=Sludge SS=Soil/Sediment AR=Air		Preservative Code	IC=Ice HC=HCI HN=HNO3		SH=NaOH ST=Na2S2O3 HS=H2SO4		Sample T=Tedle 3=Glas	e Cont ar Air E s Cont	* Sample Container Types: T=Tedlar Air Bag G=Glass Container ST- Stoot Tube	B= Brass Tube P=Plastic Bottle	E= EnCore
Ø	D=Solid Waste		Papure Prod	Incl					-	10 110	101 196		V=VOA VIBI	



A & R Laboratories 1650 S. Grove Ave., Ste C, Ontario, CA 91761

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Turn Around Time Requested	Rush 8 12 24 48	Hours	MOBILE	-	Hemarks														s after results are	nents are made.	E= EnCare
																		/	Samples are discarded 30 days after results are	reported unless other arrangements are made.	B= Brass Tube
Requested				hf	17	X	×	×	\times								/		nples an	orted un	Sample Container Types: T=Tedlar Air Bag
	_		D) 0007/	_		-	_		_	-				_			1		 Sar	rep	Sample Container T=Tedlar Air Bag
/sec			nodisO)			-									-	-/			Note:		ple C
Analyses			(saca													1			1 1		* San T=Te
A	(sabioitee	a eninalr	(Organoci	A180	8A93											/			Time 16:00	Time	_ 03
		(lə	səiD) ö	108 /	LUFT										1				M		SH=NaOH ST=Na2S2Oa
			ୁ (୯୨୧)																	Date	SH: ST:
11.			BTEX 8 8 XƏT8			_	-								-			_	10	_	
	(001000		8 - JOA)	_		~			-					+	-				Rany	any	
Chilled	Intact	Sample Seal	ale, CA	No., type*	container	125 10 g ass	-		A		-								14	Company	IC=lce HC=HCI
	×		< Easter	Sample	Preserve	No													Received By	Received By	Preservative Code
		Sampled By	Hrand	Matrix	Type	Soil			>				/						~	Time	
and Associates			- end 6	Sample Collection	Time	15:05	15:26	14:41	hh: 51				/						16		SL=Sludge SS=Soil/Sediment
Associates	Ste B-C	5-022-68	Project Site	ample Co	Date	10/24/14			>			1							Date 10/24/14	Dafe	
200	0532 Acacha St St	Phone #(904) 484-2170		Client	Sample ID	0	5-5	5	5-5-DUP		/								Company	Company	DW=Drinking Water GW=Ground Water
Client Name Lerger	ss 10932	Report Attention				56P-14-11	568-16-	569-15-	56P-155-1					~					Relinquished By	Relinquished By	Code:
Client E-mail	Address	Report	Project /o	Lab #	(Lab use)	91	5	18	19	/									Relin	Relin	Matrix Code:



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FDA# 2030513 LA City# 10261 ELAP#'s 2789 2790 2122

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CASE NARRATIVE

Authorized Signature Name / Title (print)	Ken Zheng, President										
Signature / Date	Ken Theng Ken Zheng, President 11/03/2014 11:50:31										
Laboratory Job No. (Certificate of Analysis No.)	1410-00137										
Project Name / No.	LIMONITE & SUMNER, EASTVALE, CA 10815.003										
Dates Sampled (from/to)	10/31/14 To 10/31/14										
Dates Received (from/to)	10/31/14 To 10/31/14										
Dates Reported (from/to)	11/03/14 To 11/3/2014										
Chains of Custody Received	Yes										
Comments:											
Subcontracting											
Subcontracting Organic Analyses											
Subcontracting Organic Analyses No analyses sub-contracted											
Subcontracting Organic Analyses No analyses sub-contracted Sample Condition(s) All samples intact											
Subcontracting Organic Analyses No analyses sub-contracted Sample Condition(s)	Result Qual Units RL										



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FDA# 2030513 LA City# 10261 ELAP#'s 2789 2790 2122

$\label{eq:chemistry} \begin{array}{l} \mathsf{CHEMISTRY} \cdot \mathsf{MICROBIOLOGY} \cdot \mathsf{FOOD} \ \mathsf{SAFETY} \cdot \mathsf{MOBILE} \ \mathsf{LABORATORIES} \\ \mathsf{FOOD} \cdot \mathsf{COSMETICS} \cdot \mathsf{WATER} \cdot \mathsf{SOIL} \cdot \mathsf{SOIL} \ \mathsf{VAPOR} \cdot \mathsf{WASTES} \end{array}$

CERTIFICATE OF ANALYSIS

1410-00137		
LEIGHTON & ASSOCIATES	Date Reported	11/03/14
RICHARD L. ORR	Date Received	10/31/14
10532 ACACIA STREET, SUITE B-6	Invoice No.	72484
RANCHO CUCAMONGA, CA 91730	Cust #	2155
	Permit Number	
Project: LIMONITE & SUMNER, EASTVALE, CA	Customer P.O.	10815.003

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 001 SGP-9-12 Sample Matrix: Soil Vapor					Date & Time S	ampled:	10/31/14 @	9:45
Methane	6100		ppmv	EPA 8015B	1	15	10/31/14	HXE

Respectfully Submitted:

Ken 3heng

Ken Zheng - Lab Director

QUALIFIERS

B = Detected in the associated Method Blank at a concentration above the routine RL.

B1 = BOD dilution water is over specifications. The reported result may be biased high.

D = Surrogate recoveries are not calculated due to sample dilution.

E = Estimated value; Value exceeds calibration level of instrument.

H = Analyte was prepared and/or analyzed outside of the analytical method holding time

I = Matrix Interference.

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S = Customer provided specification limit exceeded.

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QUALITY CONTROL DATA REPORT									
LEIGHTON & ASSOCIATES	1410-00137								
RANCHO CUCAMONGA, CA 91730			Date Reported	11/03/2014					
			Date Received	10/31/2014					
			Date Sampled	10/31/2014					
			Invoice No.	72484					
Duciante I IMANITE & SUMNED EA	STVALE CA		Customer #	2155					
Project: LIMONITE & SUMNER, EAS	SIVALE, CA		Customer P.O.	10815.003					
Method # EPA 8015B									
QC Reference # 44990 Date Analyzed: 10/31/2014	Technician: HXE								
Samples 001									
Results		Control Rar	-						
LCS %REC LCS %DUP LCS %RPD		LCS %REC	LCS %RPD						
Methane 93 95 2		70 - 130	0 - 25						
No method blank results were above report	rting limit								
Respectfully Submitted:	Ken 3heng								

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Ken Zheng - President

F	J
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A & R Laboratories 1650 S. Grove Ave., Ste C, Ontario, CA 91761 Table 2005 701 6005 1061 770 0040 500 604 777

CHAIN OF CUST 1410 - 137

Turn Around	navezahari alluri	□ Rush	B IZ 24 40 Hours	Normal	·	Hemarks												after results are	ents are made.	E= EnCore
D															-			Samples are discarded 30 days after results are	reported unless other arrangements are made.	B= Brass Tube P=Ptastic Bottle V=VOA Vial
Analyses Hequested		E-Coli	,miotili	Cnt., Co		Micro:	×.									•		Samples are	eported unle	 Sample Container Types: T=Tedlar Air Bag G=Glass Container ST= Steel Tube
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alysi		(070-4	O nisrlO	(Carbon (*1									:		Ž		* Sample Container 7 T=Tedlar Air Bag G=Glass Container ST= Steel Tube
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	-	1.2	_	əsəid) Z			-	-	-		-		 		_					SH=NaOH ST=Na2S2O3 HS=H2SO4
			(əuil	୦୧୫୦) ଦ୍ର	6108 /	LUFT												Date Date	SH=N ST=N HS=F	
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F		0	By	dsummer CA	Matrix Sa	Type Pre												Rece	Rece	Preserva
E-mail: office@arlaboratories.com	over	ol woman		Project Site (1 months and			15 Air											Time	Time	SL=Sludge SS=Soil/Sediment AR=Air PP=Pure Product
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mail: office@arlab	Sutorio	Ste B-6	0212-h8h (bob)#	Projec	Samp	Date	ic/sily.											10		ig Water d Water t Water
			Phone # (104) 484- 200 -		Client	Sample ID	21-											Company	Company	DW=Drinking Water GW=Ground Water WW=Waste Water SD=Solict Waste
Client Name Levis Here	L'III TUCCHAN P	10532 Acacles St.	Curr	Project /0%15.003 No./ Name	# Cli		Sep-4											Belinquished By	Relinquished By	Code:
Clien F-ma		Address [053:	Report At	Project No./ Nar	Lab	(Lab use)	1											ie K	Reli	Matrix Code:



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CASE NARRATIVE

Authorized Signature Name / Title (print)	Ken Zheng, President									
Signature / Date	Ken Sheng Ken Zheng, President 11/20/2014 9:26:51									
Laboratory Job No. (Certificate of Analysis No.)	1411-00026									
Project Name / No.	CLOVERDALE METHANE SURVEY 10815.003									
Dates Sampled (from/to)	11/10/14 To 11/10/14									
Dates Received (from/to)	11/10/14 To 11/10/14									
Dates Reported (from/to)	11/20/14 To 11/20/2014									
Chains of Custody Received Yes										
Comments:										
Subcontracting Organic Analyses 2 EPA 16 sample(s) reported by technician CEL were contracted to CALS	CIENCE ENV LABORATORY									
All results for sub-contracted analyses may be sent separately										
Sample Condition(s)										
All samples intact										
Positive Results (Organic Compounds)										
Sample Analyte Result Qual Units RL	Result Qual Units RL									
SGP-10-10 Methane 2390 ppmv 15										



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FAX 951-779-0344 office@arlaboratories.com FDA# 2030513 LA City# 10261 ELAP#'s 2789 2790 2122

$\label{eq:chemistry} \begin{array}{l} \mathsf{CHEMISTRY} \cdot \mathsf{MICROBIOLOGY} \cdot \mathsf{FOOD} \ \mathsf{SAFETY} \cdot \mathsf{MOBILE} \ \mathsf{LABORATORIES} \\ \\ \mathsf{FOOD} \cdot \mathsf{COSMETICS} \cdot \mathsf{WATER} \cdot \mathsf{SOIL} \cdot \mathsf{SOIL} \ \mathsf{VAPOR} \cdot \mathsf{WASTES} \end{array}$

CERTIFICATE OF ANALYSIS

1411-	00026	
LEIGHTON & ASSOCIATES	Date Reported 11/20/14	
Richard L. Orr	Date Received 11/10/14	
10532 ACACIA STREET, SUITE B-6	Invoice No. 72546	
RANCHO CUCAMONGA, CA 91730	Cust # 2155	
·	Permit Number	
Project: CLOVERDALE METHANE SURVEY	Customer P.O. 10815.003	

Analysis Result Qual Units Method DF RL Date Tech Date & Time Sampled: 11/10/14 @ 7:58 Sample: 001 SGP-10-10 Sample Matrix: Soil Vapor Methane 2390 ppmv EPA 8015B 1 15 11/10/14 ΚZ 002 SGP-6-12 Date & Time Sampled: 11/10/14 @ 8:15 Sample: Sample Matrix: Soil Vapor Methane 40500 ppmv EPA 8015B 1 15 11/10/14 ΚZ

Respectfully Submitted:

Ken Sheng

Ken Zheng - Lab Director

QUALIFIERS

Р

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FAX 951-779-0344 office@arlaboratories.com FDA# 2030513 LA City# 10261 ELAP#'s 2789 2790 2122

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QUALITY CONTROL DAT	A REPORT							
LEIGHTON & ASSOCIATES 1411-00026								
RANCHO CUCAMONGA, CA 91730		Date Reported	11/20/2014					
		Date Received	11/10/2014					
		Date Sampled	11/10/2014					
		Invoice No.	72546					
Project: CLOVERDALE METHANE SURVEY		Customer #	2155					
Hoject. CLOVERDALE METHANE SURVET		Customer P.O.	10815.003					
Method # EPA 8015B								
QC Reference # 45051 Date Analyzed: 11/10/2014 Technician: KZ								
Samples 001 002								
Results	Control Rar	IGES LCS %RPD						
LCS %REC LCS %DUP LCS %RPD	LCS 70REC	LUJ 70KPU						
Nethers 06 00 F	70 - 130	0 - 25						
Methane 86 90 5	,0 130	<u> </u>						
No method blank results were above reporting limit								
Respectfully Submitted: Ken 3 heng								

Ken Zheng - President

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eurofins

WORK ORDER NUMBER: 14-11-0719

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Analytical Report For Client: A&R Laboratories, Inc. Client Project Name: Cloverdale Methane Survey / 1411-00026 Attention: Jennifer Iniguez 1650-C South Grove Avenue Ontario, CA 91761-4018

Monde

Approved for release on 11/19/2014 by: Stephen Nowak Project Manager



Eurofins Calscience, Inc. (Calscience) certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.

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NELAP ID: 03220CA | ACLASS DoD-ELAP ID: ADE-1864 (ISO/IEC 17025:2005) | CSDLAC ID: 10109 | SCAQMD ID: 93LA0830

ResultLink ▶

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Client Proj Work Orde		Cloverdale Methane Survey / 1411-00026 14-11-0719	
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Work Order: 14-11-0719

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Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 11/10/14. They were assigned to Work Order 14-11-0719.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

Holding Times:

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

Quality Control:

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

Additional Comments:

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

New York NELAP air certification does not certify for all reported methods and analytes, reference the accredited items here: http://www.calscience.com/PDF/New_York.pdf

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.

Subcontractor Information:

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.

Air

1



SGP-6-12

14-11-0719-2

Client:	A&R Laboratories, Inc		Work Order:	14-11-0719			
1650-C South Grove Avenue		Project Name:	Cloverdale Methane Survey / 1411-00026				
Ontario, CA 91761-4018			PO Number:				
			Date/Time Received:	11/10/14 12:34			
			Number of Containers:	2			
Attn:	Jennifer Iniguez						
Sample Ider	ntification	Lab Number	Collection Date and Time	Number of Matrix Containers			
SGP-10-10		14-11-0719-1	11/10/14 07:58	1 Air			

11/10/14 08:15



Client:	A&R Laboratories, Inc. 1650-C South Grove Aver Ontario, CA 91761-4018	nue		Work Orc Project N Received	ame:	14-11-0719 Cloverdale Methane Survey / 1411-00026 11/10/14					
Attn:	Jennifer Iniguez						Page 1 of 1				
Client S Ana	SampleID lyte	<u>Result</u>	<u>Qualifiers</u>	<u>RL</u>	<u>Units</u>	Method	Extraction				
	12 (14-11-0719-2) rogen Sulfide	11		1.0	ppm (v/v)) EPA 16	N/A				

Subcontracted analyses, if any, are not included in this summary.

* MDL is shown



A&R Laboratories, Inc.			Date Rec	eived:			11/10/14
1650-C South Grove Avenue			Work Ord	ler:			14-11-0719
Ontario, CA 91761-4018			Preparati	on:			N/A
			Method:				EPA 16
			Units:				ppm (v/v)
Project: Cloverdale Methane S	urvey / 1411-00026					Pa	ge 1 of 1
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SGP-10-10	14-11-0719-1-A	11/10/14 07:58	Air	GC 54	N/A	11/10/14 14:43	141110L01
Parameter		Result		RL	DF	Qua	alifiers
Hydrogen Sulfide		ND		1.0	1.00		
SGP-6-12	14-11-0719-2-A	11/10/14 08:15	Air	GC 54	N/A	11/10/14 15:53	141110L01
Parameter		Result		RL	DF	Qua	alifiers
Hydrogen Sulfide		11		1.0	1.00		
Method Blank	099-12-166-821	N/A	Air	GC 54	N/A	11/10/14 14:39	141110L01
Parameter		Result		RL	DF	Qua	alifiers
Hydrogen Sulfide		ND		1.0	1.00		



Quality Control - Sample Duplicate

A&R Laboratories, Inc.	Date Received:	11/10/14
1650-C South Grove Avenue	Work Order:	14-11-0719
Ontario, CA 91761-4018	Preparation:	N/A
	Method:	EPA 16
Project: Cloverdale Methane Survey / 1411-00026		Page 1 of 1

Quality Control Sample ID	Туре	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
SGP-6-12	Sample	Air	GC 54	N/A	11/10/14 15:53	141110D01
SGP-6-12	Sample Duplicate	Air	GC 54	N/A	11/10/14 14:56	141110D01
Parameter		Sample Conc.	DUP Conc.	RPD	RPD CL	Qualifiers
Hydrogen Sulfide		11.16	11.29	1	0-20	

RPD: Relative Percent Difference. CL: Control Limits



A&R Laboratories, Inc.	Date Received:	11/10/14
1650-C South Grove Avenue	Work Order:	14-11-0719
Ontario, CA 91761-4018	Preparation:	N/A
	Method:	EPA 16
Project: Cloverdale Methane Survey / 1411-0002	26	Page 1 of 1

Quality Control - LCS

Quality Control Sample ID	Туре	Matrix	Instrument	Date	Prepared Date	Analyzed	LCS Batch Number
099-12-166-821	LCS	Air	GC 54	N/A	11/10	/14 14:34	141110L01
Parameter		Spike Added	Conc. Recov	vered	LCS %Rec.	<u>%Rec.</u>	CL Qualifiers
Hydrogen Sulfide		5.080	5.887		116	80-120	



RPD: Relative Percent Difference. CL: Control Limits



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Work Order: 14-11-0719Page 1 of 1MethodExtractionChemist IDInstrumentAnalytical LocationEPA 16N/A930GC 542

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Location 2: 7445 Lampson Avenue, Garden Grove, CA 92841



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Glossary of Terms and Qualifiers

Vork Order:	14-11-0719	Page 1 of 1
<u>Qualifiers</u>	Definition	
*	See applicable analysis comment.	
<	Less than the indicated value.	
>	Greater than the indicated value.	
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample da clarification.	ta was reported without further
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank su in control and, therefore, the sample data was reported without further clarification.	rrogate spike compound was
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to susp associated LCS recovery was in control.	ected matrix interference. The
4	The MS/MSD RPD was out of control due to suspected matrix interference.	
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to suspected mat	rix interference.
6	Surrogate recovery below the acceptance limit.	
7	Surrogate recovery above the acceptance limit.	
В	Analyte was present in the associated method blank.	
BU	Sample analyzed after holding time expired.	
BV	Sample received after holding time expired.	
Е	Concentration exceeds the calibration range.	
ET	Sample was extracted past end of recommended max. holding time.	
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.	
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard were also present (or detected).	but heavier hydrocarbons
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard also present (or detected).	but lighter hydrocarbons were
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection l estimated.	imit. Reported value is
JA	Analyte positively identified but quantitation is an estimate.	
ME	LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean).	
ND	Parameter not detected at the indicated reporting limit.	
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample e concentration by a factor of four or greater.	exceeding the spike
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.	
Х	% Recovery and/or RPD out-of-range.	
Z	Analyte presence was not confirmed by second column or GC/MS analysis.	
	Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % m	oisture. All QC results are

reported on a wet weight basis, not corrected for % moisture. All reported on a wet weight basis.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.

R Work Orde	Turn Around	○ 24hr KUSH*	() 48hr RUSH*	 Normal 		Other	*PRIOR approval,	additional ree, work received after 4 pm will be	processed next work day. Snorial Instructions						Time: Dicnocal	T	Time: CREturn	イレンシンチレ (●) Lab Disposal	Unless other	arrangements are made samples will be	atter reciept.		S	the back hereof.	Pink Copy - Client Copy
Chain of Custody Record	Analyses Requested (circle appropriate)	040	712	624) or C. RCR/	אי כ ס סר אי כ גע ס גע ס גע ס גע	(CAM 15 GF 1 2 1 0 1 2 1 0 1 2 1 0 1 2 1 0 1 2 1 1 2 1 2	22 1 80 2 10 2 10 2 10 2 10 2 10 2 10 2 10 2 1	Title	452 452 452 452 4652 4652 4652 4652 45 45 45 45 45 45 45 45 45 45 45 45 45	S	×				5) Relinquished by:		6) Received for Laboratory by: Date;	DUNNAL ELT ILJUN	livery Pormats	EDD, TVpe	EDF, EPA Site ID		MOBILE LABORATORIES · COSMETICS	constitutes authorization to perform the analyses specified above under the Terms and Conditions set forth on the back hereof.	
F: 951.779.0344			1' 0!I	₃, TKI TDS, f	T ,28 Sinor	SV , Si	ST ,	Plate BOC	Container Container Hicro: Et. St. Br.						P Date:		Date: Time:		Delivery	O Courier O Walk In	UPS/Fed Ex	s.com	SAFETY · CONSUMER PRODUCTS · MOBILE LABORATORIES	authorization to perform the analyses spe	Yellow Copy - A & R Files
A & R Laboratories 1650-C S. Grove Avenue Ontario, CA 91761 V: 951.779.0310 • 800.798.9336 F: office@arlaboratories.com		Cloverdale Methane Survev	Fax:	951-779-0310 951-779-0344	Street Address: (Report and Billing)	1650-C S. Grove Ave.	City, State Zip	Ontario, CA 91761	Time Sample	Vapor	8:15				ne. 3) Relinquished by:	2:21	Time: 4) Received by:		This section is to be completed by laboratory personnel:	es O No		richard.acaylar@arlaboratories.com	CHEMISTRY · MICROBIOLOGY · FOOD SAFETY		
	Project Name:			niguez		A & R Laboratories	Cit	ennifer.iniguez@arlaboratories.com	irab/	(As it should appear on report) UUTIID 50	5				1 Dolizoutishad hur (Samolar's Strinatura) Nator Afrina.					O Yes	ield	Laboratory Notes: please cc: richard.a	CHEMISTRY · MICE	The delivery of samples and the signature on this chain of custody form	White Copy - Original (Accompanies Samples)
	Project No.	1411-00026	Project Manager:	Jennifer Iniguez	Customer Name: (Report and Billing)	A & R La	Email:	jennifer.inig	Lab#	(Lab use only) ()	55 6				11 Dolinemichaeth	n participhumay (1	2) Received by:		r Samples Chilled	 Yes 	C From Field	Laboratory N			White Copy - Origina

J

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1 autofilian		Pa	ige 12 of 12
Calscience WOR	K ORDER #:	14-11- [2719
SAMPLE RECEI	PT FORM	Cooler	0 of 0
CLIENT: ARL		ATE: 11 //	
TEMPERATURE: Thermometer ID: SC2 (Criteria: 0.0 °C – 6.			
Temperature • °C - 0.2 °C (CF) =•			
□ Sample(s) outside temperature criteria (PM/APM contacted b			
□ Sample(s) outside temperature criteria but received on ice/ch		if sampling	
□ Received at ambient temperature, placed on ice for tra			
Ambient Temperature:	insport by oound		ed by: <u>67</u>
		Cileck	eu by
CUSTODY SEALS INTACT:			
□ Cooler □ □ No (Not Intact) □	I Not Present I∕Not Present	⊠ N/A Checke	ed by: <u>683</u>
□ Sample □ □ No (Not Intact) □	Not Present	Checke	ed by: <u>682</u>
	Vaa	Nia	NI/A
SAMPLE CONDITION:	Yes	•	N/A
Chain-Of-Custody (COC) document(s) received with samples COC document(s) received complete		/	
□ Collection date/time, matrix, and/or # of containers logged in based c			
□ No analysis requested. □ Not relinquished. □ No date/time re			
Sampler's name indicated on COC			
Sample container label(s) consistent with COC	Ø		
Sample container(s) intact and good condition	Z		
Proper containers and sufficient volume for analyses request	ed 🗹		
Analyses received within holding time			
Aqueous samples received within 15-minute holding time			
🗆 pH 🛛 Residual Chlorine 🗂 Dissolved Sulfides 🗔 Dissolved (Oxygen 🛛		Ø
Proper preservation noted on COC or sample container	🗆		
Unpreserved vials received for Volatiles analysis			,
Volatile analysis container(s) free of headspace			
Tedlar bag(s) free of condensation			
Solid: □4ozCGJ □8ozCGJ □16ozCGJ □Sleeve (_) □EnCores [®] [□TerraCores [®]	
Aqueous: □VOA □VOAh □VOAna₂ □125AGB □125AGB	h □125AGB p □1	AGB □1AGBr	a₂ □1AGBs
□500AGB □500AGJ □500AGJs □250AGB □250CGB	□250CGB s □]1PB □1PB n a	□500PB
□250PB □250PBn □125PB □125PB znna □100PJ □10	00PJ na₂ □		
Air: ZTedlar [®] Canister Other: Trip Blank Lot Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Rese Preservative: h: HCL n: HNO ₃ na ₂ :Na ₂ S ₂ O ₃ na: NaOH p: H ₃ PO ₄ s: H ₂ SO ₄ u: Ultra-pu	ealable Bag E: Envelop	e Reviewed	1 by: <u>86</u> 2

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1411 - 26		Page of		Turn-Around Time	24 Hr. RUSH [*]	D 48 Hr. RUSH*	* Requires PRIOR approval, additional charges apply	Remarks/Special Instructions						Sample Disposal	Client will pick up Return to client	K Lab disposal	Sample Locator No.	v6.0 1/11 coc-temp-bothurs Gold Copy - Client Copy
-		Info@arlaboratories.com	Please Circle Analyses Requested	<u>YinO</u> səf	E	A, PP est/PCE 524.2	ם, 8021B, 624, כסוז <u>. Only</u> , BT מואר בב	bh' 1D2' 13 wetsiz: 11(16 6CW2: 8210 6CW2: 8510 6CW2: 8520	×	×				To be completed by Laboratory personnel:	Samples chilled?*	All sample containers intact? Pres DNo All courier DUPS/Fed Ex DHand carried		uolleate
	stody Record	www.arlaboratories.com	Please Circle	rife	40 U		ouly el, Fuel Screen,	8015M: Gas 80218: BTE) 418.1 (TRPH), 418.1 (TRPH),	1 teller X	×				Date: Time: To be c	Time:	Date: Time: All sam Date: Time: All sam NOLI I DOT	-	Pink Coov - Centrum dualicate
	Chain of Custody Record			Methome Survey	Fax:	(40y) 484-2170	Address: 10532 Acelor St Ste B-6 (REPORT and BILLING) Reweber Culture Organ, CA 91730	Site location Contr # and	. 11-1-					Relinquished by:	Received by:	5) Relinquished by: 5) Received for Laboratory by:	0.0	low Copy - Centrum Files
	ES, Inc.	36		Project Name: Cloverdule	Phone:	5072-h8h (bob)	Report and Billing)	Time Sample d sampled matrix	140758 alr	0815				Date: Time: 3) F	(1)	<u>(5)</u>		Yell
	AR LABORATORIES, Inc.	1650 S. Grove Ave Suite C Ontario, CA 91761 Voice: 951.779.0310 • 800.798.9336	Fax: 951.779.0344	roject no: 10815.003	Project Manager:	lour	Client Name: Lelydon and Assecting Address: (Report and Billing) tors 2 Accel to 54	Centrum ID Sample ID Date (Lab use only) (As it should appear on report) Sampled	1 SGP-10-10 11/10/	2 SGP-10-12 L				1) Reliaguished 6/2 (Sampler's Signature)	2) Ageeived by:	The delivery of samples and the signature on this chain of custody form constitutes authorization to perform the analyses specified above under the Terms and Conditions set forth on the back hereof.	Laboratory Notes:	White Copy - Original (Accompanies Samples)



A & R Laboratories Formerly Microbac Southern California

Formerly Microbac Southern California1650 S. GROVE AVE., SUITE CONTARIO, CA 91761951-779-0310Www.arlaboratories.comoffice@a

FAX 951-779-0344 office@arlaboratories.com

FDA# 2030513 LA City# 10261 ELAP#'s 2789 2790 2122

CHEMISTRY · MICROBIOLOGY · FOOD SAFETY · MOBILE LABORATORIES FOOD · COSMETICS · WATER · SOIL · SOIL VAPOR · WASTES

CASE NARRATIVE

Authorized Signature Name / Title (print)		Ken Zheng, President									
Signature / Date		Ken <u>Sheng</u> Ken Zheng, President 11/19/2014 11:05:33									
Laboratory Job No. (Certificate of Analysis	No.)	1411-00050									
Project Name / No.		NEC LIMONITE AVE. & SUMNER AVE., EASTVALE, CA 10815.003									
Dates Sampled (from/to)		11/17/14 To 11/17/14									
Dates Received (from/to)		11/17/14 To 11/17/14									
Dates Reported (from/to)		11/19/14 To 11/19/2014									
Chains of Custody Received		Yes									
Comments:											
Subcontracting Organic Analyses											
No analyses sub-contracted											
Sample Condition(s)											
All samples intact											
All samples intact Positive Results (Organic Compounds	5)										
	5) Result Qual Units RL	Result Qual Units RL									

The data and information on this, and other accompanying documents, represent only the sample(s) analyzed and is rendered upon condition that it is not to be reproduced, wholly or in part, for advertising or other purposes without approval from the laboratory. USDA-EPA-NIOSH Testing Food Sanitation Consulting Chemical and Microbiological Analyses and Research



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$\label{eq:chemistry} CHEMISTRY \cdot MICROBIOLOGY \cdot FOOD SAFETY \cdot MOBILE LABORATORIES FOOD \cdot COSMETICS \cdot WATER \cdot SOIL \cdot SOIL VAPOR \cdot WASTES$

CERTIFICATE OF ANALYSIS

	1411-00050			
LEIGHTON & ASSOCIAT	ſES	Date Reported	11/19/14	
RICHARD L. ORR		Date Received	11/17/14	
10532 ACACIA STREET,	SUITE B-6	Invoice No.	72543	
RANCHO CUCAMONGA		Cust #	2155	
	,	Permit Number		
Project: NEC LIMONITE A	VE. & SUMNER AVE., EASTVALE, CA	Customer P.O.	10815.003	
Amalyzia	Descrite Original Uniter Method	DE DI	D-4- 7	I .

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 001 SGP-12-10 Sample Matrix: Soil Vapor					Date & Time Sa	ampled:	11/17/14	ື 15:30
Methane	7400		ppmv	EPA 8015B	1	15	11/18/14	JEN

Respectfully Submitted:

Ken 3heng

Ken Zheng - Lab Director

QUALIFIERS

B = Detected in the associated Method Blank at a concentration above the routine RL.

B1 = BOD dilution water is over specifications. The reported result may be biased high.

D = Surrogate recoveries are not calculated due to sample dilution.

E = Estimated value; Value exceeds calibration level of instrument.

H = Analyte was prepared and/or analyzed outside of the analytical method holding time

I = Matrix Interference.

J = Analyte concentration detected between RL and MDL.

Q = One or more quality control criteria did not meet specifications. See Comments for further explanation.

S = Customer provided specification limit exceeded.

As regulatory limits change frequently, A & R Laboratories advises the recipient of this report to confirm such limits with the appropriate federal, state, or local authorities before acting in reliance on the regulatory limits provided.

For any feedback concerning our services, please contact Marilu Escher, Project Manager at 951.779.0310. You may also contact Ken Zheng, President at arlab@arlaboratories.com.

ABBREVIATIONS

DF = Dilution Factor RL = Reporting Limit, Adjusted by DF MDL = Method Detection Limit, Adjusted by DF Qual = Qualifier Tech = Technician



Formerly Microbac Southern California

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FAX 951-779-0344 office@arlaboratories.com
 FDA#
 2030513

 LA City#
 10261

 ELAP#'s
 2789

 2790
 2122

	QUALITY CONTROL DATA R	EPORT	
LEIGHTON & ASSOCIATES	1411-00050		
RANCHO CUCAMONGA, CA 91730		Date Reported	11/19/2014
		Date Received	11/17/2014
		Date Sampled	11/17/2014
		Invoice No.	72543
Designet NEC I IMONITE AVE 9 SUM		Customer #	2155
Project: NEC LIMONITE AVE. & SUM	LINEN AVE.,	Customer P.O.	10815.003
EASTVALE, CA			
	Technician: JEN		
C Reference # 45138 Date Analyzed: 11/18/2014			
C Reference # 45138 Date Analyzed: 11/18/2014 amples 001 Results	Cor	ntrol Ranges	
C Reference # 45138 Date Analyzed: 11/18/2014 imples 001	Cor	ntrol Ranges s %REC LCS %RPD	
C Reference # 45138 Date Analyzed: 11/18/2014 imples 001 Results	Cor	-	
IC Reference # 45138 Date Analyzed: 11/18/2014 amples 001 Results	Cor	-	

Io method blank results were above reporting limit

Respectfully Submitted:

Ken <u>Sheng</u> Ken Zheng - President

For any feedback concerning our services, please contact Marilu Escher, Project Manager at 951.779.0310. You may also contact Ken Zheng, President at arlab@arlaboratories.com.



A & R Laboratories 1650 S. Grove Ave., Ste C, Ontario, CA 91761

20 CHAIN OF CUST 1411

Turn Around Time Requested		Bush	0 12 24 40 Hours	X Normal		Remarks									fter results are	nts are made.	E= EnCore	
a															Samples are discarded 30 days after results are	reported unless other arrangements are made.	B= Brass Tube P=Plastic Bottle	
Analyses Hequesteu	11	Micro: Plate Cnt., Coliform, E-Coli 8015 Wetherne				×								Samples are d	reported unles	Sample Container Types: r=Tedlar Air Bag		
ses h	⊢	_		(Carbon (C,											Note:	_	* Sample Container T T=Tedlar Air Bag	
Analy	PA 8082 (PCBs)					8 A93										0.0		
	(5	sebioite		(IeseiC) 3108 \ THUL nolnoonegrO) A1808A93				-	-	-	-	-	_	-	Time	14 1550	SH=NaOH ST=Na2S2O3	
	-	_	өбүхО	8 X3T8 oss9) ð	1)8093	28A93									Date	11/17/12	SH=1 ST=1	
Chilled		Intact	Sample Seal Oxyge	Summer Ave		container	Fedlin								Company	Company	IG=lce HC=HCI	
		E K		and	Sample	Preserve	None 1								Received By	Received By	Preservative Code	
			Sampled By 24F	L immitte Ave	Matrix	Type	Air									ue (
23 Court		91730	70		ection	Time	Time	(530								Time	Time	SL=Sludge SS=Soll/Sediment
Associates		C'r	7385	ø	Sample Collection	Date T	1/11/12			-					ni/in/iu	Date		
1. 10	1.1	Madeler St, Stok	Phone #(900) 527-878'5 Fax: # (900) 494-77				1								Company	Company	DW=Drinking Water GW=Ground Water	
Client Name Lelshhon and E-mail 2 for eman @ 10 1940	14527	Ramel		Project [0815.003 No./ Name	# Client) Sample ID	5GP-12-10								Belinguished By	Relinquished By		
Client I E-mail	CAPPY V	Address	Report	Projec No./ N	Lab #	(l-ab use)	-								Belli	Reli	Matrix Code:	