

TO: Max Shahbazian, PG
Regional Water Quality Control Board, San Francisco Bay Region

Melanie Morash
United States Environmental Protection Agency

CC: Hector Vargas, Jon Weisberg and Elma Fung, Texas Instruments, Inc.
Shaun Moore and Heather O’Cleirigh, Advanced Micro Devices, Inc.
Peter Bennett, Haley & Aldrich, Inc.

FROM: Joshua Graber, Senior Project Manager
Dorinda Shipman, Principal, PG, CHG

DATE: 4 May 2015

PROJECT: Off-Property Vapor Intrusion Assessment
Buildings SU3-6
Sunnyvale, California
Project Number: 750620724

SUBJECT: Results of Indoor Air Testing at Buildings SU3-6, March 2015

Langan Treadwell Rollo (Langan), on behalf of Texas Instruments (TI) and Advanced Micro Devices (AMD), has completed indoor, pathway and ambient air testing for the building identified as SU3-6 (site) in our *Work Plan for Off-Property Vapor Intrusion Assessment, National Semiconductor and Monolithic Memories Superfund Sites Operable Unit 1, Subunits 1 and 3* dated 28 August 2014 (Work Plan). The sampling and analysis were conducted in general accordance with our Work Plan and *Addendum to Work Plan for Off-Property Vapor Intrusion Assessment, Texas Instruments Incorporated, Buildings SU3-6, Sunnyvale, California* dated 23 February 2015 (Work Plan Addendum).

Building and Area Description

Building SU3-6 is zoned in a commercial/industrial area of Sunnyvale, California (Figure 1). The single-story building is constructed with a slab-on-grade and is approximately 16,000 square feet in area. The building is occupied by iBase Technology USA, Inc. (iBase), a computer assembly and wholesale business. The front (northern side) of the building is used as reception and office space. A portion of the center of the building is used as the assembly and production space. The back warehouse area (southern side) is used for shipping and receiving and storage of computer parts. There are three overhead doors, two that open into the warehouse area of the building and another that opens to the assembly and production floor. The overhead door

associated with the assembly and production floor is blocked off and does not appear to be in use (Figure 2).

Based on measurements collected during the 2014 groundwater monitoring event, groundwater is expected to be present at approximately 9 to 10 feet below ground surface with trichloroethene (TCE) concentrations beneath the building likely ranging from 50 to 100 micrograms/liter ($\mu\text{g/L}$).

Summary of Sampling Method/Approach

A building survey and inventory was completed at Building SU3-6 on 11 February 2015 by Langan personnel in the presence of United States Environmental Protection Agency (USEPA) representative, Melanie Morash. The building surveys consisted of building walk-throughs with a part per billion (ppb) level photoionization detector (PID) to determine if specific areas contained measureable or elevated concentrations of volatile organic compounds (VOCs) or if building slab penetrations were possibly acting as preferential pathways for vapor intrusion. Potential preferential pathways may include gaps and cracks in building foundations, slab penetrations (such as piping and utility lines), floor drains, fire suppression lines, crawl spaces, and sanitary sewer cleanouts. No elevators or sumps were observed during the building survey. The following preferential pathways were identified during the building survey:

- One sewer cleanout in the men's restroom located near the lobby;
- Nine electrical ground slab penetrations to electrically ground work stations used for computer assembly were observed throughout the building (Figure 2);
 - Seven in the manufacturing and production floor;
 - One in Room 130; and
 - One in Room 129.

As described in the Work Plan Addendum, two types of air sample locations were identified during the building walk-throughs: 1) indoor air (IA); and 2) pathway air samples (PS). The IA samples (identified in Table 1 with an 'IA' in the sample designation) were collected from building areas that are normally occupied throughout the day during working hours (i.e. offices, work cubicles and production areas). Pathway samples (identified in Table 1 with a 'PS' in the sample designation) were collected from areas not normally occupied for a full workday (i.e., 10-hour period), such as storage rooms and bathrooms. The proposed sample locations and sampling rationale were approved by the Regional Water Quality Control Board, San Francisco Bay Region (Water Board) and the USEPA prior to conducting the sampling.

Due to the multitude of influences on indoor air quality, one ambient air (AA) sample was collected on the same day as the indoor air and pathway samples were collected. For the purposes of field quality assurance/quality control (QA/QC), one field duplicate sample (DUP) was collected on the same day as the indoor air and pathway samples were collected.

A summary of the air samples collected and location from which they were collected is presented in Table 1. Air samples were collected in 6-liter summa canisters over a 10-hour period on 1 and 6 March 2015, when the HVAC system was off¹ and on, respectively. Due to roof accessibility issues, ambient air samples were taken near ground level. A total of 11 samples were collected at SU3-6 on each day. Sample locations are shown on Figure 2. Photographs taken at the time of air sampling are presented in Appendix A.

Following sample collection, summa canisters were delivered to K-PRIME, Inc., a State of California certified laboratory for VOC analysis using method TO-15 analysis with selective ion monitoring (SIM), in accordance with the Work Plan. Certified laboratory reports and chain-of-custody records are presented in Appendix B.

Screening Evaluation

Indoor air sample results were compared to both the USEPA's Industrial Air Regional Screening Levels (RSLs) (revised in January 2015) and the Water Board's Commercial/Industrial Land Use Environmental Screening Levels (ESLs) (revised in December 2013). Both the Water Board ESLs and USEPA RSLs are calculated using standard exposure assumptions and published toxicity values. These screening values are calculated assuming a target incremental lifetime cancer risk of 10^{-6} (i.e., one-in-a-million) and/or a target non-cancer hazard index of 1.

TCE results were also compared to the USEPA's interim accelerated Response Action Level (RAL), as defined in Table 2. USEPA recommends the use of the interim TCE indoor air accelerated RAL of 7 micrograms per cubic meter ($\mu\text{g}/\text{m}^3$) for a 10-hour Commercial/Industrial workday.

Indoor and Pathway Air Sample Results

The locations of air samples collected at Building SU3-6 are shown on Figure 2 and the detected results are presented in Table 2. Indoor air, pathway, and ambient air samples were collected from SU3-6 on 1 March 2015 (HVAC off) and 6 March 2015 (HVAC on). Indoor air and pathway sample results are discussed below.

Findings - HVAC On

- All VOC concentrations, except chloroform, were below their respective Water Board ESLs and USEPA RSLs.

¹ HVAC units were turned off at least 36 hours prior to starting samples collection with HVAC off.

- TCE was not detected above the Water Board ESL, USEPA RSL or USEPA RAL in any of the samples. TCE concentrations ranged from less than 0.0537 to 0.310 $\mu\text{g}/\text{m}^3$ in indoor air samples and was detected at concentrations of 0.819 and 0.333 $\mu\text{g}/\text{m}^3$ in pathway samples PS-1 (collected from the janitor's closet) and PS-2 (collected from the Women's bathroom), respectively.
- Ethylbenzene, 1,4-dichlorobenzene (1,4-DCB), 1,2-dichloroethane (1,2-DCA), toluene, tetrachloroethene (PCE), 1,1,1-trichloroethane (1,1,1-TCA), methylene chloride, trichlorofluoromethane, 1,1,2-trichloro-1,2,2-trifluoroethane (Freon 113), and xylenes were detected above laboratory reporting limits but below Water Board ESLs and USEPA RSLs with concentrations ranging from 0.0560 to 3.97 $\mu\text{g}/\text{m}^3$. The majority of these compounds were also detected in the ambient air sample.
- Chloroform was detected in pathway air samples collected (SU3-6-PS1-2015-03-06 and SU3-6-PS2-2015-03-06) at concentrations of 0.643 and 2.30 $\mu\text{g}/\text{m}^3$, respectively. Both concentrations are above the USEPA's Industrial Air RSL (0.53 $\mu\text{g}/\text{m}^3$), but below the Water Board's Commercial/Industrial Land Use ESL (2.31 $\mu\text{g}/\text{m}^3$).

Findings - HVAC Off

- All VOC concentrations were below their respective ESLs and RSLs.
- TCE was not detected above the Water Board ESL, USEPA RSL, or USEPA RAL in any samples collected. TCE concentrations ranged from 0.0735 to 0.266 $\mu\text{g}/\text{m}^3$ in indoor air samples and was detected at concentrations of 0.858 and 0.408 $\mu\text{g}/\text{m}^3$ in pathway samples PS-1 (collected from the janitor's closet) and PS-2 (collected from the Women's bathroom), respectively.
- Ethylbenzene, 1,4-DCB, 1,1-dichloroethane (1,1-DCA), 1,2-DCA, toluene, PCE, cis-1,2-dichloroethene (cis-1,2-DCE), trans-1,2-dichloroethene (trans-1,2-DCE), chloroform, methylene chloride, trichlorofluoromethane, Freon 113, and xylenes were detected above laboratory reporting limits but below Water Board ESLs and USEPA RSLs with concentrations ranging from 0.0436 to 2.70 $\mu\text{g}/\text{m}^3$. The majority of these compounds were also detected in the ambient air sample.

Ambient Air Sample Results

Two ambient samples (SU3-6-AA1-2015-03-01 and SU3-6-AA1-2015-03-06) were collected on 1 and 6 March 2015. Ethylbenzene, 1,4-DCB, 1,2-DCA, toluene, chloroform, methylene chloride, trichlorofluoromethane, Freon 113, and xylenes were detected at or above laboratory reporting limits with concentrations ranging from 0.0611 to 2.26 $\mu\text{g}/\text{m}^3$. All VOC concentrations were below their respective ESLs and RSLs.

Discussion and Recommendations

No compounds, with the exception of chloroform, were detected above the Water Board's Commercial/Industrial Land Use ESL or the USEPA's Industrial Air RSLs in any indoor air or pathway samples collected with the HVAC systems operating normally and off. TCE was not detected above the Water Board's Commercial/Industrial Land Use ESL or the USEPA's Industrial Air RSLs in any of the samples collected. TCE concentrations were also well below the USEPA's interim accelerated RAL.

Chloroform was detected in all samples analyzed (including the ambient air samples) and only exceeded the USEPA's RSL ($0.53 \mu\text{g}/\text{m}^3$) in two pathway samples collected with HVAC systems operating. Chloroform did not exceed the Water Board's ESL of $2.31 \mu\text{g}/\text{m}^3$ in any samples. Chloroform was detected at $0.643 \mu\text{g}/\text{m}^3$ in the pathway sample from the janitorial closet and $2.30 \mu\text{g}/\text{m}^3$ in the pathway sample from the Women's bathroom. Chloroform concentrations in indoor air have been known to be associated with off-gassing from municipal water supplies, which is the likely source of chloroform in the pathway samples given that both pathway locations were in rooms with sinks. Furthermore, chloroform is generally not detected in nearby upgradient, cross-gradient and downgradient groundwater monitoring wells 136A, SU4A-1, SU4A-5 and SU4EWA-1 (Figure 1) and therefore, is likely not associated with vapor intrusion. The chloroform detections are likely attributable to off-gassing from the municipal water supply associated with the sinks and toilets.

Since no significant concentrations were detected at Building SU3-6 with HVAC systems operating or off, we conclude that vapor intrusion does not pose a significant risk to building occupants. We do not believe additional evaluation of the vapor intrusion pathway is warranted.

Attachments

Table 1 – Sampling and Analysis Plan
Table 2 – Summary of Analytical Results
Figure 1 – Site Location Map
Figure 2 – Sampling Locations
Appendix A – Photographs
Appendix B – Laboratory Analytical Reports

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TABLES

**Table 1
Sample Summary
Building SU3-6
Sunnyvale, CA**

Langan Project: 750620724
May 2015

Sample ID	Location Notes	HVAC On	HVAC Off
Indoor Air Samples			
SU3-6-IA1-2015-03-01 SU3-6-IA1-2015-03-06	Room 116	X	X
SU3-6-IA2-2015-03-01 SU3-6-IA2-2015-03-06	Room 103,104	X	X
SU3-6-IA3-2015-03-01 SU3-6-IA3-2015-03-06	Room 122	X	X
SU3-6-IA4-2015-03-01 SU3-6-IA4-2015-03-06	Cubicle area on the west side of building	X	X
SU3-6-IA5-2015-03-01 SU3-6-IA5-2015-03-06	Office/Cubicle area on the east side of building	X	X
SU3-6-IA6-2015-03-01 SU3-6-IA6-2015-03-06	Manufacturing and Production	X	X
SU3-6-IA7-2015-03-01 SU3-6-IA7-2015-03-06	Warehouse B	X	X
SU3-6-DUP1-2015-03-01 SU3-6-DUP1-2015-03-06	IA-2 Duplicate	X	X
Pathway Samples			
SU3-6-PS1-2015-03-01 SU3-6-PS1-2015-03-06	Janitorial Closet on the west side of building	X	X
SU3-6-PS2-2015-03-01 SU3-6-PS2-2015-03-06	Women's room in the center of building	X	X
Ambient Samples			
SU3-6-AA1-2015-03-01 SU3-6-AA1-2015-03-06	Near northeast emergency exit	X	X
Subtotal		11	11
Total		22	

Notes:

HVAC - heating, ventilation, and air conditioning

Table 2
Indoor, Pathway and Ambient Air Analytical Results
Buildings SU3-6
Sunnyvale, California

Chemical of Concern	Sample Date	Ethylbenzene	1,4-DCB	1,1-DCA	1,2-DCA	Toluene	PCE	cis-1,2-DCE	trans-1,2-DCE	Chloroform	1,1,1-TCA	Methylene Chloride	Trichloro-fluoro-methane	Freon 113	TCE ¹	o-Xylenes	m- and p-Xylenes	All Other VOCs	
Unit		µg/m ³										µg/m ³							
ESL Indoor Air Commercial Land Use		4.9	1.1	7.7	0.58	1,314	2.1	31	260	2.31	21,900	26	NE	NE	3	438	438	--	
RSL Air Industrial		4.9	1.1	7.7	0.47	22,000	47	NE	NE	0.53	22,000	1,200	3,100	130,000	3	440	440	--	
HVAC On																			
SU3-6-IA1-2015-03-06	3/6/2015	0.632	0.289	< 0.0405	0.102	3.97	0.0975	< 0.0397	< 0.0396	0.361	0.0560	0.881	1.47	0.486	0.295	0.768	2.00	ND	
SU3-6-IA2-2015-03-06	3/6/2015	0.43	0.155	< 0.0405	0.0832	2.52	0.0798	< 0.0397	< 0.0396	0.267	< 0.546	0.634	1.17	0.367	0.134	0.499	1.27	ND	
SU3-6-DUP1-2015-03-06	3/6/2015	0.441	0.117	< 0.0405	0.0924	2.76	0.0878	< 0.0397	< 0.0396	0.308	< 0.546	0.741	1.36	0.443	0.153	0.532	1.32	ND	
SU3-6-IA3-2015-03-06	3/6/2015	0.555	0.128	< 0.0405	0.0936	2.81	0.0868	< 0.0397	< 0.0396	0.240	< 0.546	0.609	1.13	0.346	0.128	0.590	1.48	ND	
SU3-6-IA4-2015-03-06	3/6/2015	0.474	0.227	< 0.0405	0.0966	3.07	0.086	< 0.0397	< 0.0396	0.304	< 0.546	0.700	1.32	0.430	0.310	0.560	1.45	ND	
SU3-6-IA5-2015-03-06	3/6/2015	0.408	0.181	< 0.0405	0.0925	2.57	0.0797	< 0.0397	< 0.0396	0.274	< 0.546	0.660	1.31	0.419	0.129	0.486	1.21	ND	
SU3-6-IA6-2015-03-06	3/6/2015	0.528	0.135	< 0.0405	0.0964	2.87	0.0823	< 0.0397	< 0.0396	0.219	< 0.546	0.663	1.27	0.418	0.129	0.604	1.53	ND	
SU3-6-IA7-2015-03-06	3/6/2015	0.452	0.106	< 0.0405	0.0907	2.40	< 0.0678	< 0.0397	< 0.0396	0.164	< 0.546	0.513	1.07	0.324	< 0.0537	0.527	1.29	ND	
SU3-6-PS1-2015-03-06	3/6/2015	0.386	0.171	< 0.0405	0.114	2.83	0.0996	< 0.0397	< 0.0396	0.643	0.0617	0.818	1.45	0.499	0.819	0.422	1.02	ND	
SU3-6-PS2-2015-03-06	3/6/2015	0.509	0.398	< 0.0405	0.105	3.38	0.115	< 0.0397	< 0.0396	2.30	0.0594	0.864	1.53	0.507	0.333	0.618	1.55	ND	
SU3-6-AA1-2015-03-06	3/6/2015	0.317	0.110	< 0.0405	0.0731	1.45	< 0.0678	< 0.0397	< 0.0396	0.156	< 0.546	0.526	1.28	0.407	< 0.0537	0.377	0.946	ND	
HVAC Off																			
SU3-6-IA1-2015-03-01	3/1/2015	0.320	0.171	< 0.0405	0.0822	1.56	< 0.0678	< 0.0397	< 0.0396	0.162	< 0.0546	0.274	1.05	0.382	0.266	0.359	0.928	ND	
SU3-6-IA2-2015-03-01	3/1/2015	0.288	0.111	< 0.0405	0.0821	1.42	< 0.0678	< 0.0397	< 0.0396	0.153	< 0.0546	0.267	1.01	0.352	0.203	0.323	0.824	ND	
SU3-6-DUP1-2015-03-01	3/1/2015	0.317	0.128	< 0.0405	0.0860	1.62	< 0.0678	< 0.0397	< 0.0396	0.167	< 0.0546	0.298	1.14	0.387	0.228	0.371	0.944	ND	
SU3-6-IA3-2015-03-01	3/1/2015	0.427	0.140	< 0.0405	0.0867	1.72	< 0.0678	< 0.0397	< 0.0396	0.162	< 0.0546	0.297	1.11	0.398	0.239	0.346	0.918	ND	
SU3-6-IA4-2015-03-01	3/1/2015	0.318	0.174	< 0.0405	0.0892	1.72	< 0.0678	< 0.0397	< 0.0396	0.175	< 0.0546	0.306	1.17	0.410	0.266	0.365	0.853	ND	
SU3-6-IA5-2015-03-01	3/1/2015	0.269	0.137	< 0.0405	0.0757	1.53	< 0.0678	< 0.0397	< 0.0396	0.144	< 0.0546	0.262	0.958	0.312	0.173	0.299	0.783	ND	
SU3-6-IA6-2015-03-01	3/1/2015	0.500	0.118	< 0.0405	0.0940	2.44	0.110	< 0.0397	< 0.0396	0.171	< 0.0546	0.312	1.08	0.386	0.207	0.493	1.28	ND	
SU3-6-IA7-2015-03-01	3/1/2015	0.759	0.0953	0.0436	0.158	2.70	0.211	< 0.0397	0.138	0.172	< 0.0546	0.846	1.64	0.597	0.0735	0.574	1.54	ND	
SU3-6-PS1-2015-03-01	3/1/2015	0.353	0.301	< 0.0405	0.0903	1.78	0.0855	< 0.0397	< 0.0396	0.344	< 0.0546	0.300	1.16	0.422	0.858	0.365	0.965	ND	
SU3-6-PS2-2015-03-01	3/1/2015	0.324	0.233	< 0.0405	0.0903	1.73	0.0805	0.0723	< 0.0396	0.319	< 0.0546	0.313	1.15	0.395	0.408	0.390	1.03	ND	
SU3-6-AA1-2015-03-01	3/1/2015	0.206	0.0611	< 0.0405	0.135	0.998	< 0.0678	< 0.0397	< 0.0396	0.176	< 0.0546	0.193	2.26	0.885	< 0.0537	0.210	0.514	ND	

Notes:

1 - USEPA recommends the use of interim TCE indoor air accelerated Response Action Level (RAL) for TCE inhalation exposure from subsurface vapor intrusion. Commercial/Industrial accelerated RALs for a 10 hour work day is 7 µg/m³.

µg/m³ - Micrograms per cubic meter

< 0.0405 - Compound not detected above reporting limit

ESL: Environmental Screening Level. San Francisco Bay Regional Water Quality Control Board (Water Board)

RSL: Regional Screening Level. United States Environmental Protection Agency (USEPA)

ND - Not detected. Compounds not detected included chlorobenzene, 1,2,4-TCB, MTBE, 1,3-DCB, chloroethane, vinyl chloride, 1,1-DCE, 1,1,2-TCA, 1,2,3-TCB, and 1,2-DCB. Non-detect results ranged from less than 0.0256 to 0.192 µg/m³.

NE - Not established

1,2,4-TCB: 1,2,4-trichlorobenzene

1,2-DCB: 1,2-dichlorobenzene

1,3-DCB: 1,3-dichlorobenzene

1,4-DCB: 1,4-dichlorobenzene

MTBE: methyl tert-butyl ether

PCE: tetrachloroethene

cis-1,2-DCE: cis-1,2-dichloroethene

trans-1,2-DCE: trans-1,2-dichloroethene

1,1-DCE: 1,1-dichloroethene

1,2-DCA: 1,2-dichloroethane

1,1-DCA: 1,1-dichloroethane

1,1,2-TCA: 1,1,2-trichloroethane

1,1,1-TCA: 1,1,1-trichloroethane

1,1,2-Trichloro-1,2,2-Trifluoroethane: Freon 113

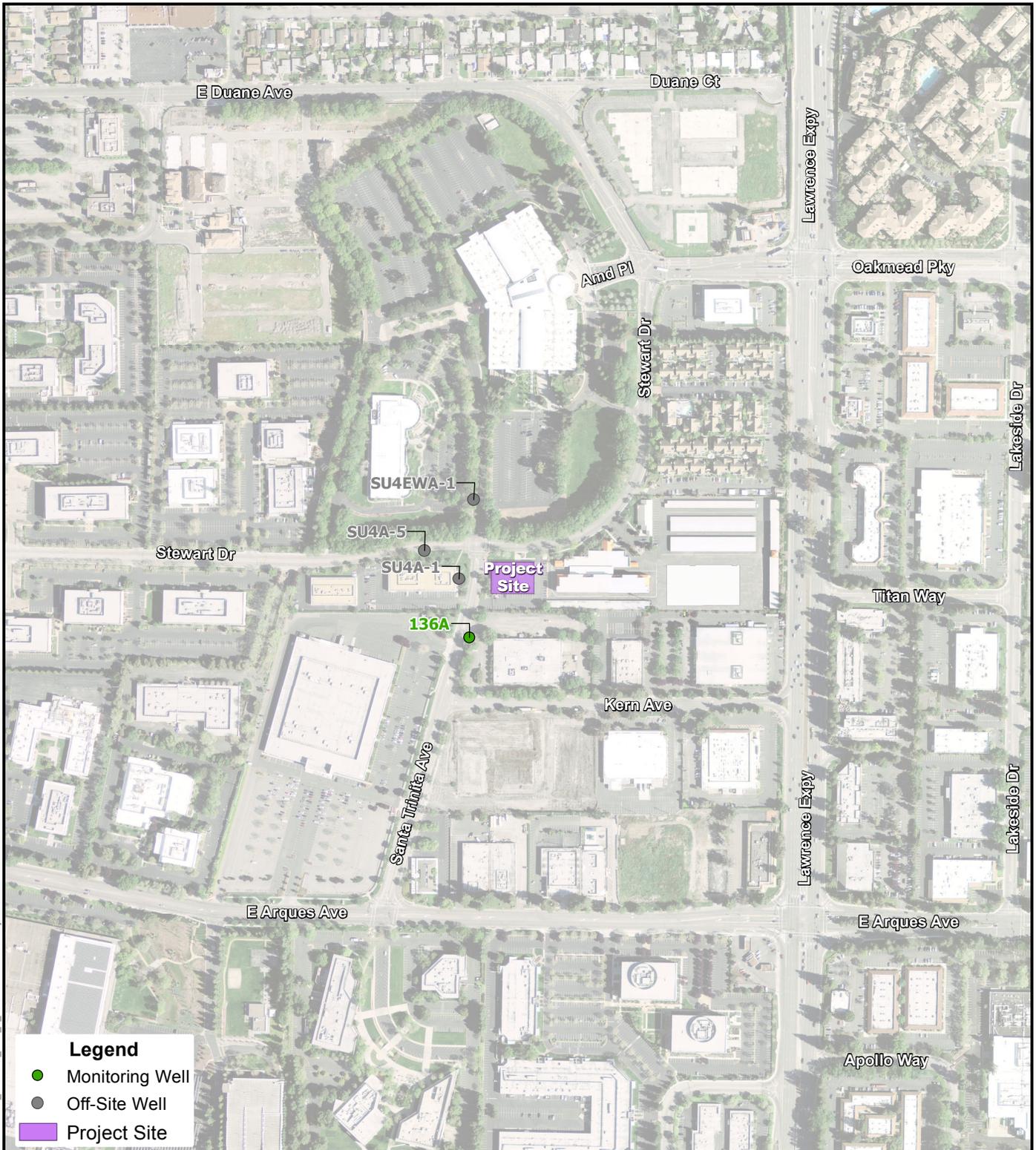
TCE: trichloroethene

Exceedance Summary:

10 - Result Exceeds ESL Indoor Air Commercial Land Use

10 - Result Exceeds RSL Air Industrial

FIGURES

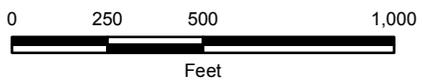


Legend

- Monitoring Well
- Off-Site Well
- Project Site

Notes:

1. Aerial Orthophoto mosaic is provided by Santa Clara County and the United States Geological Survey (USGS). Imagery was captured in April, 2011.
2. Map displayed in California State Plane Coordinate System, Zone III, North American Datum of 1983 (NAD83), US Survey Feet.
3. All locations are considered accurate.



BUILDING SU3-6
Sunnyvale, California

SITE LOCATION MAP

LANGAN TREADWELL ROLLO

Date 4/1/2015

Project 750620720

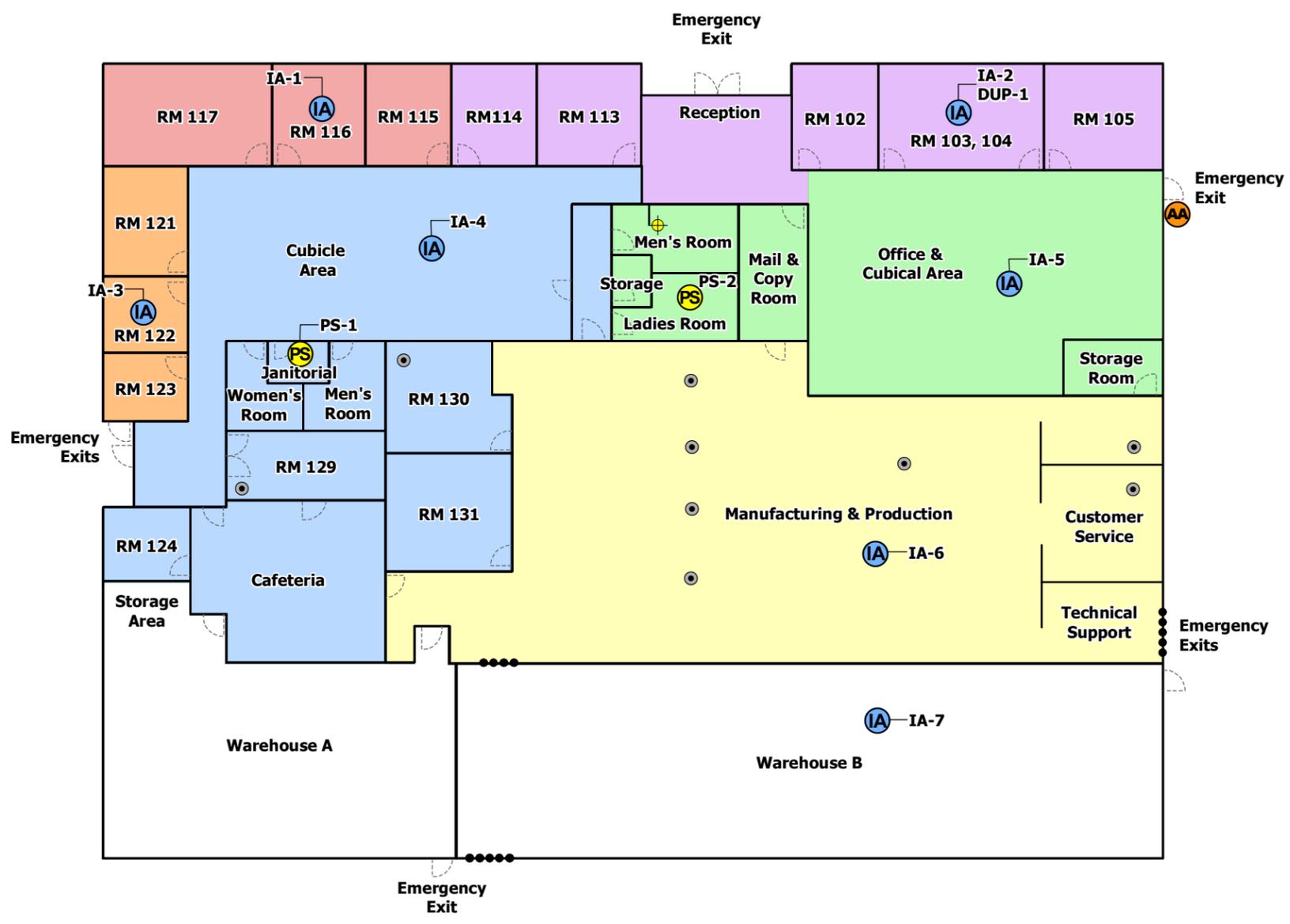
Figure 1

I:\langan.com\data\OA\data\750620720\ArcGIS\ArcMap_Documents\Site_Location_SU3_6_wells.mxd User: bsay/or

\\langan.com\data\OA\water\750620724\ArcGIS\Map_Documents\Building_S3_6_FloorPlan.mxd User: bsaylor

Santa Trinita Ave

Stewart Drive



Legend

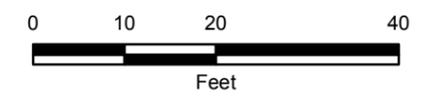
- Ambient Air
- Clean out
- Slab Penetration (Ground Wire)
- Indoor Air
- Pathway Sample
- Door Swing
- Roll-up Door
- Wall

HVAC Areas

- Area 1
- Area 2
- Area 3
- Area 4
- Area 5
- Area 6

Notes:

1. Digitized from building evacuation map. No guarantee to accuracy or current layout.
2. Map displayed in California State Plane Coordinate System , Zone III, North American Datum of 1983 (NAD83) , US Survey Feet.



BUILDING SU3-6
Sunnyvale, California

SAMPLING LOCATIONS

Date 4/22/2015	Project 750620724	Figure 2
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LANGAN TREADWELL ROLLO

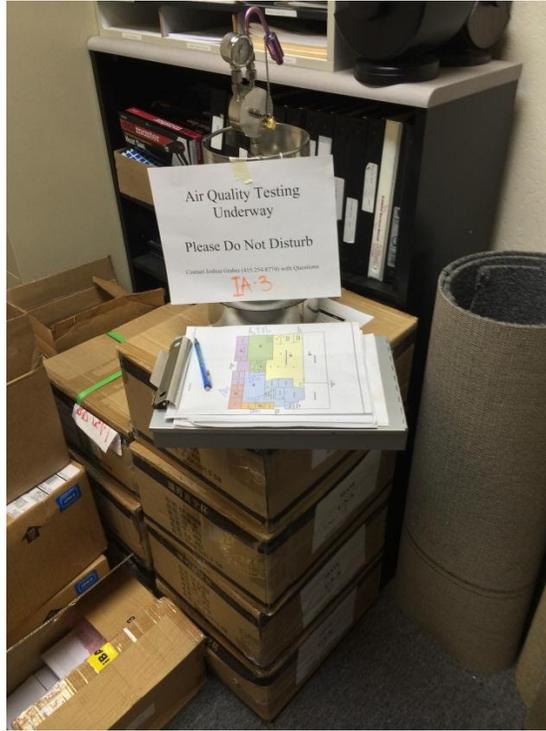
APPENDIX A
PHOTOGRAPHS



IA-1 Location



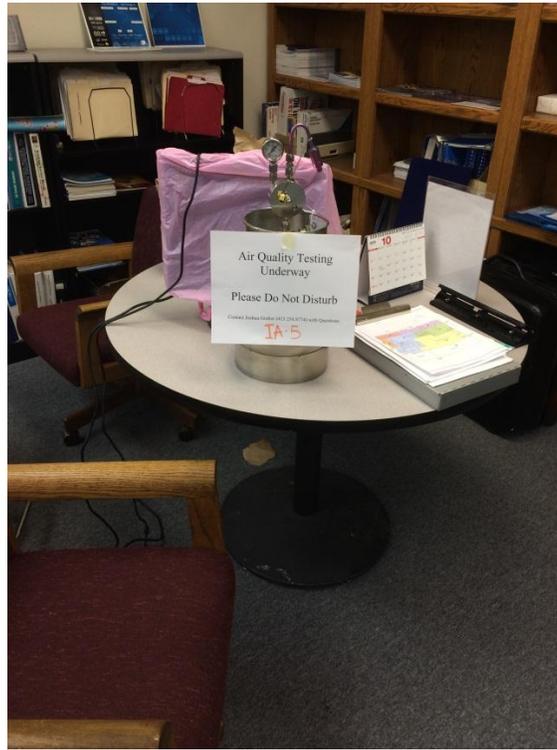
IA-2 Location



IA-3 Location



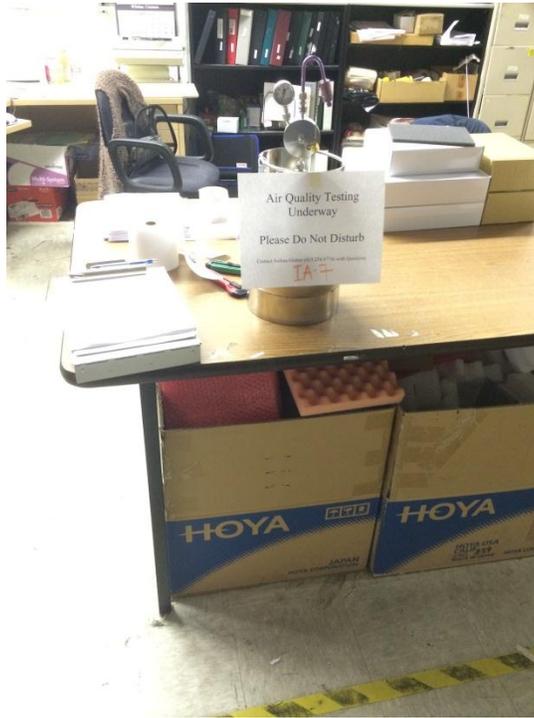
IA-4 Location



IA-5 Location



IA-6 Location



IA-7 Location



PS-1 location – Janitorial room



PS-2 location – Women’s restroom



AA-1 located on east side of building

APPENDIX B
LABORATORY ANALYTICAL REPORTS

K PRIME, Inc.

CONSULTING ANALYTICAL CHEMISTS

3621 Westwind Blvd.
Santa Rosa CA 95403
Phone: 707 527 7574
FAX: 707 527 7879

TRANSMITTAL

DATE: 3/23/2015

TO: MR. JOSHUA GRABER
LANGAN TREADWELL ROLLO
555 MONTGOMERY STREET, STE. 1300
SAN FRANCISCO, CA 94111

ACCT: 4841
PROJ: 750620720

Phone: 415-955-9041
Email: jgraber@langan.com

FROM: Richard A. Kage1, Ph.D. *RAC 3/23/15*
Laboratory Director

SUBJECT: LABORATORY RESULTS FOR YOUR PROJECT 750620720

Enclosed please find K Prime's laboratory reports for the following samples:

SAMPLE ID	TYPE	DATE	TIME	KPI LAB #
SU3-6-IA1-2015-03-01	AIR	03/01/15	17:51	130466
SU3-6-IA2-2015-03-01	AIR	03/01/15	17:55	130467
SU3-6-IA3-2015-03-01	AIR	03/01/15	17:52	130468
SU3-6-IA4-2015-03-01	AIR	03/01/15	17:50	130469
SU3-6-IA5-2015-03-01	AIR	03/01/15	17:56	130470
SU3-6-IA6-2015-03-01	AIR	03/01/15	17:47	130471
SU3-6-IA7-2015-03-01	AIR	03/01/15	17:46	130472
SU3-6-DUP1-2015-03-01	AIR	03/01/15	17:55	130473
SU3-6-PS1-2015-03-01	AIR	03/01/15	18:25	130474
SU3-6-PS2-2015-03-01	AIR	03/01/15	17:48	130475
SU3-6-AA1-2015-03-01	AIR	03/01/15	17:43	130476

The above listed sample group was received on 03/02/15 and tested as requested on the chain of custody document.

Please call me if you have any questions or need further information.
Thank you for this opportunity to be of service.

K PRIME, INC.
LABORATORY REPORT

K PRIME PROJECT: 4841
CLIENT PROJECT: 750620720

METHOD: VOC'S IN AIR
REFERENCE: EPA METHOD TO-15-SIM (GC-MS-SIM)

SAMPLE ID: SU3-6-IA1-2015-03-01
LAB NO: 130466
SAMPLE TYPE: AIR
DATE SAMPLED: 03/01/2015
TIME SAMPLED: 17:51
BATCH ID: 030315A1
DATE ANALYZED: 03/03/2015

COMPOUND NAME	CAS NO.	PPB (V/V)		µg/cu. m	
		MRL	SAMPLE CONC	MRL	SAMPLE CONC
VINYL CHLORIDE	75-01-4	0.0100	ND	0.0256	ND
CHLOROETHANE	75-00-3	0.0100	ND	0.0264	ND
TRICHLOROFLUOROMETHANE	75-69-4	0.0100	0.187	0.0562	1.05
1,1-DICHLOROETHENE	75-35-4	0.0100	ND	0.0397	ND
TRICHLOROTRIFLUOROETHANE	76-13-1	0.0250	0.0499	0.192	0.382
METHYLENE CHLORIDE	75-09-2	0.0250	0.0788	0.0868	0.274
TRANS-1,2-DICHLOROETHENE	156-60-5	0.0100	ND	0.0396	ND
MTBE	1634-04-4	0.0250	ND	0.0901	ND
1,1-DICHLOROETHANE	75-34-3	0.0100	ND	0.0405	ND
CIS-1,2-DICHLOROETHENE	156-59-2	0.0100	ND	0.0397	ND
CHLOROFORM	67-66-3	0.0100	0.0332	0.0488	0.162
1,1,1-TRICHLOROETHANE	71-55-6	0.0100	ND	0.0546	ND
1,2-DICHLOROETHANE	107-06-2	0.0100	0.0203	0.0405	0.0822
TRICHLOROETHENE	79-01-6	0.0100	0.0496	0.0537	0.266
TOLUENE	108-88-3	0.0250	0.415	0.0942	1.56
1,1,2-TRICHLOROETHANE	79-00-5	0.0100	ND	0.0546	ND
TETRACHLOROETHENE	127-18-4	0.0100	ND	0.0678	ND
CHLOROBENZENE	108-90-7	0.0100	ND	0.0460	ND
ETHYLBENZENE	100-41-4	0.0100	0.0738	0.0434	0.320
XYLENE (M+P)	1330-20-7	0.0200	0.214	0.0868	0.928
XYLENE (O)	95-47-6	0.0100	0.0828	0.0434	0.359
1,3-DICHLOROBENZENE	541-73-1	0.0100	ND	0.0601	ND
1,4-DICHLOROBENZENE	106-46-7	0.0100	0.0284	0.0601	0.171
1,2-DICHLOROBENZENE	95-50-1	0.0100	ND	0.0601	ND
1,2,4-TRICHLOROBENZENE	120-82-1	0.0100	ND	0.0742	ND
1,2,3-TRICHLOROBENZENE	201-757-1	0.0100	ND	0.0742	ND

NOTES:

ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT

MRL - METHOD REPORTING LIMIT

NA - NOT APPLICABLE OR AVAILABLE

µg/cu. m VALUES ARE CALCULATED FROM PPB RESULTS USING NORMAL TEMPERATURE AND PRESSURE (NPT).

APPROVED BY: BAK
DATE: 3/23/15

K PRIME, INC.
LABORATORY REPORT

K PRIME PROJECT: 4841
CLIENT PROJECT: 750620720

METHOD: VOC'S IN AIR
REFERENCE: EPA METHOD TO-15-SIM (GC-MS-SIM)

SAMPLE ID: SU3-6-IA2-2015-03-01
LAB NO: 130467
SAMPLE TYPE: AIR
DATE SAMPLED: 03/01/2015
TIME SAMPLED: 17:55
BATCH ID: 030315A1
DATE ANALYZED: 03/03/2015

COMPOUND NAME	CAS NO.	PPB (V/V)		µg/cu. m	
		MRL	SAMPLE CONC	MRL	SAMPLE CONC
VINYL CHLORIDE	75-01-4	0.0100	ND	0.0256	ND
CHLOROETHANE	75-00-3	0.0100	ND	0.0264	ND
TRICHLOROFLUOROMETHANE	75-69-4	0.0100	0.180	0.0562	1.01
1,1-DICHLOROETHENE	75-35-4	0.0100	ND	0.0397	ND
TRICHLOROTRIFLUOROETHANE	76-13-1	0.0250	0.0460	0.192	0.352
METHYLENE CHLORIDE	75-09-2	0.0250	0.0769	0.0868	0.267
TRANS-1,2-DICHLOROETHENE	156-60-5	0.0100	ND	0.0396	ND
MTBE	1634-04-4	0.0250	ND	0.0901	ND
1,1-DICHLOROETHANE	75-34-3	0.0100	ND	0.0405	ND
CIS-1,2-DICHLOROETHENE	156-59-2	0.0100	ND	0.0397	ND
CHLOROFORM	67-66-3	0.0100	0.0314	0.0488	0.153
1,1,1-TRICHLOROETHANE	71-55-6	0.0100	ND	0.0546	ND
1,2-DICHLOROETHANE	107-06-2	0.0100	0.0203	0.0405	0.0821
TRICHLOROETHENE	79-01-6	0.0100	0.0379	0.0537	0.203
TOLUENE	108-88-3	0.0250	0.378	0.0942	1.42
1,1,2-TRICHLOROETHANE	79-00-5	0.0100	ND	0.0546	ND
TETRACHLOROETHENE	127-18-4	0.0100	ND	0.0678	ND
CHLOROBENZENE	108-90-7	0.0100	ND	0.0460	ND
ETHYLBENZENE	100-41-4	0.0100	0.0662	0.0434	0.288
XYLENE (M+P)	1330-20-7	0.0200	0.190	0.0868	0.824
XYLENE (O)	95-47-6	0.0100	0.0745	0.0434	0.323
1,3-DICHLOROBENZENE	541-73-1	0.0100	ND	0.0601	ND
1,4-DICHLOROBENZENE	106-46-7	0.0100	0.0185	0.0601	0.111
1,2-DICHLOROBENZENE	95-50-1	0.0100	ND	0.0601	ND
1,2,4-TRICHLOROBENZENE	120-82-1	0.0100	ND	0.0742	ND
1,2,3-TRICHLOROBENZENE	201-757-1	0.0100	ND	0.0742	ND

NOTES:

ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT

MRL - METHOD REPORTING LIMIT

NA - NOT APPLICABLE OR AVAILABLE

µg/cu. m VALUES ARE CALCULATED FROM PPB RESULTS USING NORMAL TEMPERATURE AND PRESSURE (NPT).

APPROVED BY:

DATE:

RMI
3/23/15

K PRIME, INC.
LABORATORY REPORT

K PRIME PROJECT: 4841
CLIENT PROJECT: 750620720

METHOD: VOC'S IN AIR
REFERENCE: EPA METHOD TO-15-SIM (GC-MS-SIM)

SAMPLE ID: SU3-6-IA3-2015-03-01
LAB NO: 130468
SAMPLE TYPE: AIR
DATE SAMPLED: 03/01/2015
TIME SAMPLED: 17:52
BATCH ID: 030315A1
DATE ANALYZED: 03/03/2015

COMPOUND NAME	CAS NO.	PPB (V/V)		µg/cu. m	
		MRL	SAMPLE CONC	MRL	SAMPLE CONC
VINYL CHLORIDE	75-01-4	0.0100	ND	0.0256	ND
CHLOROETHANE	75-00-3	0.0100	ND	0.0264	ND
TRICHLOROFUOROMETHANE	75-69-4	0.0100	0.198	0.0562	1.11
1,1-DICHLOROETHENE	75-35-4	0.0100	ND	0.0397	ND
TRICHLOROTRIFLUOROETHANE	76-13-1	0.0250	0.0519	0.192	0.398
METHYLENE CHLORIDE	75-09-2	0.0250	0.0854	0.0868	0.297
TRANS-1,2-DICHLOROETHENE	156-60-5	0.0100	ND	0.0396	ND
MTBE	1634-04-4	0.0250	ND	0.0901	ND
1,1-DICHLOROETHANE	75-34-3	0.0100	ND	0.0405	ND
CIS-1,2-DICHLOROETHENE	156-59-2	0.0100	ND	0.0397	ND
CHLOROFORM	67-66-3	0.0100	0.0333	0.0488	0.162
1,1,1-TRICHLOROETHANE	71-55-6	0.0100	ND	0.0546	ND
1,2-DICHLOROETHANE	107-06-2	0.0100	0.0214	0.0405	0.0867
TRICHLOROETHENE	79-01-6	0.0100	0.0444	0.0537	0.239
TOLUENE	108-88-3	0.0250	0.455	0.0942	1.72
1,1,2-TRICHLOROETHANE	79-00-5	0.0100	ND	0.0546	ND
TETRACHLOROETHENE	127-18-4	0.0100	ND	0.0678	ND
CHLOROBENZENE	108-90-7	0.0100	ND	0.0460	ND
ETHYLBENZENE	100-41-4	0.0100	0.0984	0.0434	0.427
XYLENE (M+P)	1330-20-7	0.0200	0.211	0.0868	0.918
XYLENE (O)	95-47-6	0.0100	0.0797	0.0434	0.346
1,3-DICHLOROBENZENE	541-73-1	0.0100	ND	0.0601	ND
1,4-DICHLOROBENZENE	106-46-7	0.0100	0.0232	0.0601	0.140
1,2-DICHLOROBENZENE	95-50-1	0.0100	ND	0.0601	ND
1,2,4-TRICHLOROBENZENE	120-82-1	0.0100	ND	0.0742	ND
1,2,3-TRICHLOROBENZENE	201-757-1	0.0100	ND	0.0742	ND

NOTES:

ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT

MRL - METHOD REPORTING LIMIT

NA - NOT APPLICABLE OR AVAILABLE

µg/cu. m VALUES ARE CALCULATED FROM PPB RESULTS USING NORMAL TEMPERATURE AND PRESSURE (NPT).

APPROVED BY:

DATE:

RMC

3/23/15

K PRIME, INC.
LABORATORY REPORT

K PRIME PROJECT: 4841
CLIENT PROJECT: 750620720

METHOD: VOC'S IN AIR
REFERENCE: EPA METHOD TO-15-SIM (GC-MS-SIM)

SAMPLE ID: SU3-6-IA4-2015-03-01
LAB NO: 130469
SAMPLE TYPE: AIR
DATE SAMPLED: 03/01/2015
TIME SAMPLED: 17:50
BATCH ID: 030315A1
DATE ANALYZED: 03/03/2015

COMPOUND NAME	CAS NO.	PPB (V/V)		µg/cu. m	
		MRL	SAMPLE CONC	MRL	SAMPLE CONC
VINYL CHLORIDE	75-01-4	0.0100	ND	0.0256	ND
CHLOROETHANE	75-00-3	0.0100	ND	0.0264	ND
TRICHLOROFUOROMETHANE	75-69-4	0.0100	0.208	0.0562	1.17
1,1-DICHLOROETHENE	75-35-4	0.0100	ND	0.0397	ND
TRICHLOROTRIFLUOROETHANE	76-13-1	0.0250	0.0535	0.192	0.410
METHYLENE CHLORIDE	75-09-2	0.0250	0.0882	0.0868	0.306
TRANS-1,2-DICHLOROETHENE	156-60-5	0.0100	ND	0.0396	ND
MTBE	1634-04-4	0.0250	ND	0.0901	ND
1,1-DICHLOROETHANE	75-34-3	0.0100	ND	0.0405	ND
CIS-1,2-DICHLOROETHENE	156-59-2	0.0100	ND	0.0397	ND
CHLOROFORM	67-66-3	0.0100	0.0359	0.0488	0.175
1,1,1-TRICHLOROETHANE	71-55-6	0.0100	ND	0.0546	ND
1,2-DICHLOROETHANE	107-06-2	0.0100	0.0221	0.0405	0.0892
TRICHLOROETHENE	79-01-6	0.0100	0.0494	0.0537	0.266
TOLUENE	108-88-3	0.0250	0.457	0.0942	1.72
1,1,2-TRICHLOROETHANE	79-00-5	0.0100	ND	0.0546	ND
TETRACHLOROETHENE	127-18-4	0.0100	ND	0.0678	ND
CHLOROBENZENE	108-90-7	0.0100	ND	0.0460	ND
ETHYLBENZENE	100-41-4	0.0100	0.0731	0.0434	0.318
XYLENE (M+P)	1330-20-7	0.0200	0.220	0.0868	0.953
XYLENE (O)	95-47-6	0.0100	0.0841	0.0434	0.365
1,3-DICHLOROBENZENE	541-73-1	0.0100	ND	0.0601	ND
1,4-DICHLOROBENZENE	106-46-7	0.0100	0.0289	0.0601	0.174
1,2-DICHLOROBENZENE	95-50-1	0.0100	ND	0.0601	ND
1,2,4-TRICHLOROBENZENE	120-82-1	0.0100	ND	0.0742	ND
1,2,3-TRICHLOROBENZENE	201-757-1	0.0100	ND	0.0742	ND

NOTES:

ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT

MRL - METHOD REPORTING LIMIT

NA - NOT APPLICABLE OR AVAILABLE

µg/cu. m VALUES ARE CALCULATED FROM PPB RESULTS USING NORMAL TEMPERATURE AND PRESSURE (NPT).

APPROVED BY: RM
DATE: 3/23/15

K PRIME, INC.
LABORATORY REPORT

K PRIME PROJECT: 4841
 CLIENT PROJECT: 750620720

METHOD: VOC'S IN AIR
 REFERENCE: EPA METHOD TO-15-SIM (GC-MS-SIM)

SAMPLE ID: SU3-6-IA5-2015-03-01
 LAB NO: 130470
 SAMPLE TYPE: AIR
 DATE SAMPLED: 03/01/2015
 TIME SAMPLED: 17:56
 BATCH ID: 030315A1
 DATE ANALYZED: 03/03/2015

COMPOUND NAME	CAS NO.	PPB (V/V)		µg/cu. m	
		MRL	SAMPLE CONC	MRL	SAMPLE CONC
VINYL CHLORIDE	75-01-4	0.0100	ND	0.0256	ND
CHLOROETHANE	75-00-3	0.0100	ND	0.0264	ND
TRICHLOROFUOROMETHANE	75-69-4	0.0100	0.170	0.0562	0.958
1,1-DICHLOROETHENE	75-35-4	0.0100	ND	0.0397	ND
TRICHLOROTRIFLUOROETHANE	76-13-1	0.0250	0.0407	0.192	0.312
METHYLENE CHLORIDE	75-09-2	0.0250	0.0754	0.0868	0.262
TRANS-1,2-DICHLOROETHENE	156-60-5	0.0100	ND	0.0396	ND
MTBE	1634-04-4	0.0250	ND	0.0901	ND
1,1-DICHLOROETHANE	75-34-3	0.0100	ND	0.0405	ND
CIS-1,2-DICHLOROETHENE	156-59-2	0.0100	ND	0.0397	ND
CHLOROFORM	67-66-3	0.0100	0.0294	0.0488	0.144
1,1,1-TRICHLOROETHANE	71-55-6	0.0100	ND	0.0546	ND
1,2-DICHLOROETHANE	107-06-2	0.0100	0.0187	0.0405	0.0757
TRICHLOROETHENE	79-01-6	0.0100	0.0322	0.0537	0.173
TOLUENE	108-88-3	0.0250	0.405	0.0942	1.53
1,1,2-TRICHLOROETHANE	79-00-5	0.0100	ND	0.0546	ND
TETRACHLOROETHENE	127-18-4	0.0100	ND	0.0678	ND
CHLOROBENZENE	108-90-7	0.0100	ND	0.0460	ND
ETHYLBENZENE	100-41-4	0.0100	0.0620	0.0434	0.269
XYLENE (M+P)	1330-20-7	0.0200	0.180	0.0868	0.783
XYLENE (O)	95-47-6	0.0100	0.0688	0.0434	0.299
1,3-DICHLOROBENZENE	541-73-1	0.0100	ND	0.0601	ND
1,4-DICHLOROBENZENE	106-46-7	0.0100	0.0227	0.0601	0.137
1,2-DICHLOROBENZENE	95-50-1	0.0100	ND	0.0601	ND
1,2,4-TRICHLOROBENZENE	120-82-1	0.0100	ND	0.0742	ND
1,2,3-TRICHLOROBENZENE	201-757-1	0.0100	ND	0.0742	ND

NOTES:

ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT
 MRL - METHOD REPORTING LIMIT
 NA - NOT APPLICABLE OR AVAILABLE
 µg/cu. m VALUES ARE CALCULATED FROM PPB RESULTS USING NORMAL TEMPERATURE AND PRESSURE (NPT).

APPROVED BY: RMC
 DATE: 3/23/15

K PRIME, INC.
LABORATORY REPORT

K PRIME PROJECT: 4841
CLIENT PROJECT: 750620720

METHOD: VOC'S IN AIR
REFERENCE: EPA METHOD TO-15-SIM (GC-MS-SIM)

SAMPLE ID: SU3-6-IA6-2015-03-01
LAB NO: 130471
SAMPLE TYPE: AIR
DATE SAMPLED: 03/01/2015
TIME SAMPLED: 17:47
BATCH ID: 030315A1
DATE ANALYZED: 03/03/2015

COMPOUND NAME	CAS NO.	PPB (V/V)		µg/cu. m	
		MRL	SAMPLE CONC	MRL	SAMPLE CONC
VINYL CHLORIDE	75-01-4	0.0100	ND	0.0256	ND
CHLOROETHANE	75-00-3	0.0100	ND	0.0264	ND
TRICHLOROFUOROMETHANE	75-69-4	0.0100	0.192	0.0562	1.08
1,1-DICHLOROETHENE	75-35-4	0.0100	ND	0.0397	ND
TRICHLOROTRIFLUOROETHANE	76-13-1	0.0250	0.0503	0.192	0.386
METHYLENE CHLORIDE	75-09-2	0.0250	0.0897	0.0868	0.312
TRANS-1,2-DICHLOROETHENE	156-60-5	0.0100	ND	0.0396	ND
MTBE	1634-04-4	0.0250	ND	0.0901	ND
1,1-DICHLOROETHANE	75-34-3	0.0100	ND	0.0405	ND
CIS-1,2-DICHLOROETHENE	156-59-2	0.0100	ND	0.0397	ND
CHLOROFORM	67-66-3	0.0100	0.0351	0.0488	0.171
1,1,1-TRICHLOROETHANE	71-55-6	0.0100	ND	0.0546	ND
1,2-DICHLOROETHANE	107-06-2	0.0100	0.0232	0.0405	0.0940
TRICHLOROETHENE	79-01-6	0.0100	0.0386	0.0537	0.207
TOLUENE	108-88-3	0.0250	0.648	0.0942	2.44
1,1,2-TRICHLOROETHANE	79-00-5	0.0100	ND	0.0546	ND
TETRACHLOROETHENE	127-18-4	0.0100	0.0162	0.0678	0.110
CHLOROBENZENE	108-90-7	0.0100	ND	0.0460	ND
ETHYLBENZENE	100-41-4	0.0100	0.115	0.0434	0.500
XYLENE (M+P)	1330-20-7	0.0200	0.295	0.0868	1.28
XYLENE (O)	95-47-6	0.0100	0.114	0.0434	0.493
1,3-DICHLOROBENZENE	541-73-1	0.0100	ND	0.0601	ND
1,4-DICHLOROBENZENE	106-46-7	0.0100	0.0196	0.0601	0.118
1,2-DICHLOROBENZENE	95-50-1	0.0100	ND	0.0601	ND
1,2,4-TRICHLOROBENZENE	120-82-1	0.0100	ND	0.0742	ND
1,2,3-TRICHLOROBENZENE	201-757-1	0.0100	ND	0.0742	ND

NOTES:

ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT

MRL - METHOD REPORTING LIMIT

NA - NOT APPLICABLE OR AVAILABLE

µg/cu. m VALUES ARE CALCULATED FROM PPB RESULTS USING NORMAL TEMPERATURE AND PRESSURE (NPT).

APPROVED BY: *RMK*
DATE: 3/23/15

K PRIME, INC.
LABORATORY REPORT

K PRIME PROJECT: 4841
 CLIENT PROJECT: 750620720

METHOD: VOC'S IN AIR
 REFERENCE: EPA METHOD TO-15-SIM (GC-MS-SIM)

SAMPLE ID: SU3-6-IA7-2015-03-01
 LAB NO: 130472
 SAMPLE TYPE: AIR
 DATE SAMPLED: 03/01/2015
 TIME SAMPLED: 17:46
 BATCH ID: 030315A1
 DATE ANALYZED: 03/03/2015

COMPOUND NAME	CAS NO.	PPB (V/V)		µg/cu. m	
		MRL	SAMPLE CONC	MRL	SAMPLE CONC
VINYL CHLORIDE	75-01-4	0.0100	ND	0.0256	ND
CHLOROETHANE	75-00-3	0.0100	ND	0.0264	ND
TRICHLOROFUOROMETHANE	75-69-4	0.0100	0.292	0.0562	1.64
1,1-DICHLOROETHENE	75-35-4	0.0100	ND	0.0397	ND
TRICHLOROTRIFLUOROETHANE	76-13-1	0.0250	0.0779	0.192	0.597
METHYLENE CHLORIDE	75-09-2	0.0250	0.244	0.0868	0.846
TRANS-1,2-DICHLOROETHENE	156-60-5	0.0100	0.0347	0.0396	0.138
MTBE	1634-04-4	0.0250	ND	0.0901	ND
1,1-DICHLOROETHANE	75-34-3	0.0100	0.0108	0.0405	0.0436
CIS-1,2-DICHLOROETHENE	156-59-2	0.0100	ND	0.0397	ND
CHLOROFORM	67-66-3	0.0100	0.0352	0.0488	0.172
1,1,1-TRICHLOROETHANE	71-55-6	0.0100	ND	0.0546	ND
1,2-DICHLOROETHANE	107-06-2	0.0100	0.0391	0.0405	0.158
TRICHLOROETHENE	79-01-6	0.0100	0.0137	0.0537	0.0735
TOLUENE	108-88-3	0.0250	0.716	0.0942	2.70
1,1,2-TRICHLOROETHANE	79-00-5	0.0100	ND	0.0546	ND
TETRACHLOROETHENE	127-18-4	0.0100	0.0311	0.0678	0.211
CHLOROBENZENE	108-90-7	0.0100	ND	0.0460	ND
ETHYLBENZENE	100-41-4	0.0100	0.175	0.0434	0.759
XYLENE (M+P)	1330-20-7	0.0200	0.355	0.0868	1.54
XYLENE (O)	95-47-6	0.0100	0.132	0.0434	0.574
1,3-DICHLOROBENZENE	541-73-1	0.0100	ND	0.0601	ND
1,4-DICHLOROBENZENE	106-46-7	0.0100	0.0159	0.0601	0.0953
1,2-DICHLOROBENZENE	95-50-1	0.0100	ND	0.0601	ND
1,2,4-TRICHLOROBENZENE	120-82-1	0.0100	ND	0.0742	ND
1,2,3-TRICHLOROBENZENE	201-757-1	0.0100	ND	0.0742	ND

NOTES:

ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT

MRL - METHOD REPORTING LIMIT

NA - NOT APPLICABLE OR AVAILABLE

µg/cu. m VALUES ARE CALCULATED FROM PPB RESULTS USING NORMAL TEMPERATURE AND PRESSURE (NPT).

APPROVED BY: _____

DATE: _____

RM
 3/23/15

K PRIME, INC.
LABORATORY REPORT

K PRIME PROJECT: 4841
CLIENT PROJECT: 750620720

METHOD: VOC'S IN AIR
REFERENCE: EPA METHOD TO-15-SIM (GC-MS-SIM)

SAMPLE ID: SU3-6-DUP1-2015-03-01
LAB NO: 130473
SAMPLE TYPE: AIR
DATE SAMPLED: 03/01/2015
TIME SAMPLED: 17:55
BATCH ID: 030315A1
DATE ANALYZED: 03/03/2015

COMPOUND NAME	CAS NO.	PPB (V/V)		µg/cu. m	
		MRL	SAMPLE CONC	MRL	SAMPLE CONC
VINYL CHLORIDE	75-01-4	0.0100	ND	0.0256	ND
CHLOROETHANE	75-00-3	0.0100	ND	0.0264	ND
TRICHLOROFUOROMETHANE	75-69-4	0.0100	0.203	0.0562	1.14
1,1-DICHLOROETHENE	75-35-4	0.0100	ND	0.0397	ND
TRICHLOROTRIFLUOROETHANE	76-13-1	0.0250	0.0505	0.192	0.387
METHYLENE CHLORIDE	75-09-2	0.0250	0.0857	0.0868	0.298
TRANS-1,2-DICHLOROETHENE	156-60-5	0.0100	ND	0.0396	ND
MTBE	1634-04-4	0.0250	ND	0.0901	ND
1,1-DICHLOROETHANE	75-34-3	0.0100	ND	0.0405	ND
CIS-1,2-DICHLOROETHENE	156-59-2	0.0100	ND	0.0397	ND
CHLOROFORM	67-66-3	0.0100	0.0341	0.0488	0.167
1,1,1-TRICHLOROETHANE	71-55-6	0.0100	ND	0.0546	ND
1,2-DICHLOROETHANE	107-06-2	0.0100	0.0212	0.0405	0.0860
TRICHLOROETHENE	79-01-6	0.0100	0.0424	0.0537	0.228
TOLUENE	108-88-3	0.0250	0.430	0.0942	1.62
1,1,2-TRICHLOROETHANE	79-00-5	0.0100	ND	0.0546	ND
TETRACHLOROETHENE	127-18-4	0.0100	ND	0.0678	ND
CHLOROBENZENE	108-90-7	0.0100	ND	0.0460	ND
ETHYLBENZENE	100-41-4	0.0100	0.0730	0.0434	0.317
XYLENE (M+P)	1330-20-7	0.0200	0.218	0.0868	0.944
XYLENE (O)	95-47-6	0.0100	0.0854	0.0434	0.371
1,3-DICHLOROBENZENE	541-73-1	0.0100	ND	0.0601	ND
1,4-DICHLOROBENZENE	106-46-7	0.0100	0.0212	0.0601	0.128
1,2-DICHLOROBENZENE	95-50-1	0.0100	ND	0.0601	ND
1,2,4-TRICHLOROBENZENE	120-82-1	0.0100	ND	0.0742	ND
1,2,3-TRICHLOROBENZENE	201-757-1	0.0100	ND	0.0742	ND

NOTES:

ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT

MRL - METHOD REPORTING LIMIT

NA - NOT APPLICABLE OR AVAILABLE

µg/cu. m VALUES ARE CALCULATED FROM PPB RESULTS USING NORMAL TEMPERATURE AND PRESSURE (NPT).

APPROVED BY:
DATE: 3/23/15

K PRIME, INC.
LABORATORY REPORT

K PRIME PROJECT: 4841
CLIENT PROJECT: 750620720

METHOD: VOC'S IN AIR
REFERENCE: EPA METHOD TO-15-SIM (GC-MS-SIM)

SAMPLE ID: SU3-6-PS1-2015-03-01
LAB NO: 130474
SAMPLE TYPE: AIR
DATE SAMPLED: 03/01/2015
TIME SAMPLED: 18:25
BATCH ID: 030315A1
DATE ANALYZED: 03/03/2015

COMPOUND NAME	CAS NO.	PPB (V/V)		µg/cu. m	
		MRL	SAMPLE CONC	MRL	SAMPLE CONC
VINYL CHLORIDE	75-01-4	0.0100	ND	0.0256	ND
CHLOROETHANE	75-00-3	0.0100	ND	0.0264	ND
TRICHLOROFLUOROMETHANE	75-69-4	0.0100	0.207	0.0562	1.16
1,1-DICHLOROETHENE	75-35-4	0.0100	ND	0.0397	ND
TRICHLOROTRIFLUOROETHANE	76-13-1	0.0250	0.0551	0.192	0.422
METHYLENE CHLORIDE	75-09-2	0.0250	0.0863	0.0868	0.300
TRANS-1,2-DICHLOROETHENE	156-60-5	0.0100	ND	0.0396	ND
MTBE	1634-04-4	0.0250	ND	0.0901	ND
1,1-DICHLOROETHANE	75-34-3	0.0100	ND	0.0405	ND
CIS-1,2-DICHLOROETHENE	156-59-2	0.0100	ND	0.0397	ND
CHLOROFORM	67-66-3	0.0100	0.0705	0.0488	0.344
1,1,1-TRICHLOROETHANE	71-55-6	0.0100	ND	0.0546	ND
1,2-DICHLOROETHANE	107-06-2	0.0100	0.0223	0.0405	0.0903
TRICHLOROETHENE	79-01-6	0.0100	0.160	0.0537	0.858
TOLUENE	108-88-3	0.0250	0.473	0.0942	1.78
1,1,2-TRICHLOROETHANE	79-00-5	0.0100	ND	0.0546	ND
TETRACHLOROETHENE	127-18-4	0.0100	0.0126	0.0678	0.0855
CHLOROBENZENE	108-90-7	0.0100	ND	0.0460	ND
ETHYLBENZENE	100-41-4	0.0100	0.0812	0.0434	0.353
XYLENE (M+P)	1330-20-7	0.0200	0.222	0.0868	0.965
XYLENE (O)	95-47-6	0.0100	0.0840	0.0434	0.365
1,3-DICHLOROBENZENE	541-73-1	0.0100	ND	0.0601	ND
1,4-DICHLOROBENZENE	106-46-7	0.0100	0.0501	0.0601	0.301
1,2-DICHLOROBENZENE	95-50-1	0.0100	ND	0.0601	ND
1,2,4-TRICHLOROBENZENE	120-82-1	0.0100	ND	0.0742	ND
1,2,3-TRICHLOROBENZENE	201-757-1	0.0100	ND	0.0742	ND

NOTES:

ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT

MRL - METHOD REPORTING LIMIT

NA - NOT APPLICABLE OR AVAILABLE

µg/cu. m VALUES ARE CALCULATED FROM PPB RESULTS USING NORMAL TEMPERATURE AND PRESSURE (NPT).

APPROVED BY:
DATE:

RAC
3/23/15

K PRIME, INC.
LABORATORY REPORT

K PRIME PROJECT: 4841
CLIENT PROJECT: 750620720

METHOD: VOC'S IN AIR
REFERENCE: EPA METHOD TO-15-SIM (GC-MS-SIM)

SAMPLE ID: SU3-6-PS2-2015-03-01
LAB NO: 130475
SAMPLE TYPE: AIR
DATE SAMPLED: 03/01/2015
TIME SAMPLED: 17:48
BATCH ID: 030315A1
DATE ANALYZED: 03/03/2015

COMPOUND NAME	CAS NO.	PPB (V/V)		µg/cu. m	
		MRL	SAMPLE CONC	MRL	SAMPLE CONC
VINYL CHLORIDE	75-01-4	0.0100	ND	0.0256	ND
CHLOROETHANE	75-00-3	0.0100	ND	0.0264	ND
TRICHLOROFLUOROMETHANE	75-69-4	0.0100	0.205	0.0562	1.15
1,1-DICHLOROETHENE	75-35-4	0.0100	ND	0.0397	ND
TRICHLOROTRIFLUOROETHANE	76-13-1	0.0250	0.0516	0.192	0.395
METHYLENE CHLORIDE	75-09-2	0.0250	0.0900	0.0868	0.313
TRANS-1,2-DICHLOROETHENE	156-60-5	0.0100	ND	0.0396	ND
MTBE	1634-04-4	0.0250	ND	0.0901	ND
1,1-DICHLOROETHANE	75-34-3	0.0100	ND	0.0405	ND
CIS-1,2-DICHLOROETHENE	156-59-2	0.0100	0.0182	0.0397	0.0723
CHLOROFORM	67-66-3	0.0100	0.0653	0.0488	0.319
1,1,1-TRICHLOROETHANE	71-55-6	0.0100	ND	0.0546	ND
1,2-DICHLOROETHANE	107-06-2	0.0100	0.0223	0.0405	0.0903
TRICHLOROETHENE	79-01-6	0.0100	0.0759	0.0537	0.408
TOLUENE	108-88-3	0.0250	0.459	0.0942	1.73
1,1,2-TRICHLOROETHANE	79-00-5	0.0100	ND	0.0546	ND
TETRACHLOROETHENE	127-18-4	0.0100	0.0119	0.0678	0.0805
CHLOROBENZENE	108-90-7	0.0100	ND	0.0460	ND
ETHYLBENZENE	100-41-4	0.0100	0.0747	0.0434	0.324
XYLENE (M+P)	1330-20-7	0.0200	0.238	0.0868	1.03
XYLENE (O)	95-47-6	0.0100	0.0899	0.0434	0.390
1,3-DICHLOROBENZENE	541-73-1	0.0100	ND	0.0601	ND
1,4-DICHLOROBENZENE	106-46-7	0.0100	0.0387	0.0601	0.233
1,2-DICHLOROBENZENE	95-50-1	0.0100	ND	0.0601	ND
1,2,4-TRICHLOROBENZENE	120-82-1	0.0100	ND	0.0742	ND
1,2,3-TRICHLOROBENZENE	201-757-1	0.0100	ND	0.0742	ND

NOTES:

ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT

MRL - METHOD REPORTING LIMIT

NA - NOT APPLICABLE OR AVAILABLE

µg/cu. m VALUES ARE CALCULATED FROM PPB RESULTS USING NORMAL TEMPERATURE AND PRESSURE (NPT).

APPROVED BY:
DATE:

VMC
3/23/15

K PRIME, INC.
LABORATORY REPORT

K PRIME PROJECT: 4841
CLIENT PROJECT: 750620720

METHOD: VOC'S IN AIR
REFERENCE: EPA METHOD TO-15-SIM (GC-MS-SIM)

SAMPLE ID: SU3-6-AA1-2015-03-01
LAB NO: 130476
SAMPLE TYPE: AIR
DATE SAMPLED: 03/01/2015
TIME SAMPLED: 17:43
BATCH ID: 030515A1
DATE ANALYZED: 03/04/2015

COMPOUND NAME	CAS NO.	PPB (V/V)		µg/cu. m	
		MRL	SAMPLE CONC	MRL	SAMPLE CONC
VINYL CHLORIDE	75-01-4	0.0100	ND	0.0256	ND
CHLOROETHANE	75-00-3	0.0100	ND	0.0264	ND
TRICHLOROFLUOROMETHANE	75-69-4	0.0100	0.403	0.0562	2.26
1,1-DICHLOROETHENE	75-35-4	0.0100	ND	0.0397	ND
TRICHLOROTRIFLUOROETHANE	76-13-1	0.0250	0.115	0.192	0.885
METHYLENE CHLORIDE	75-09-2	0.0250	0.142	0.0868	0.493
TRANS-1,2-DICHLOROETHENE	156-60-5	0.0100	ND	0.0396	ND
MTBE	1634-04-4	0.0250	ND	0.0901	ND
1,1-DICHLOROETHANE	75-34-3	0.0100	ND	0.0405	ND
CIS-1,2-DICHLOROETHENE	156-59-2	0.0100	ND	0.0397	ND
CHLOROFORM	67-66-3	0.0100	0.0360	0.0488	0.176
1,1,1-TRICHLOROETHANE	71-55-6	0.0100	ND	0.0546	ND
1,2-DICHLOROETHANE	107-06-2	0.0100	0.0333	0.0405	0.135
TRICHLOROETHENE	79-01-6	0.0100	ND	0.0537	ND
TOLUENE	108-88-3	0.0250	0.265	0.0942	0.998
1,1,2-TRICHLOROETHANE	79-00-5	0.0100	ND	0.0546	ND
TETRACHLOROETHENE	127-18-4	0.0100	ND	0.0678	ND
CHLORO BENZENE	108-90-7	0.0100	ND	0.0460	ND
ETHYLBENZENE	100-41-4	0.0100	0.0474	0.0434	0.206
XYLENE (M+P)	1330-20-7	0.0200	0.118	0.0868	0.514
XYLENE (O)	95-47-6	0.0100	0.0483	0.0434	0.210
1,3-DICHLORO BENZENE	541-73-1	0.0100	ND	0.0601	ND
1,4-DICHLORO BENZENE	106-46-7	0.0100	0.0102	0.0601	0.0611
1,2-DICHLORO BENZENE	95-50-1	0.0100	ND	0.0601	ND
1,2,4-TRICHLORO BENZENE	120-82-1	0.0100	ND	0.0742	ND
1,2,3-TRICHLORO BENZENE	201-757-1	0.0100	ND	0.0742	ND

NOTES:

ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT

MRL - METHOD REPORTING LIMIT

NA - NOT APPLICABLE OR AVAILABLE

µg/cu. m VALUES ARE CALCULATED FROM PPB RESULTS USING NORMAL TEMPERATURE AND PRESSURE (NPT).

APPROVED BY:

DATE:

RAC
3/23/15

K PRIME, INC.
LABORATORY METHOD BLANK REPORT

METHOD BLANK ID: B030315A1
SAMPLE TYPE: AIR

METHOD: VOC'S IN AIR
REFERENCE: EPA METHOD TO-15-SIM (GC-MS-SIM)

BATCH ID: 030315A1
DATE ANALYZED: 03/03/2015

COMPOUND NAME	CAS NO.	PPB (V/V)		µg/cu. m	
		MRL	SAMPLE CONC	MRL	SAMPLE CONC
VINYL CHLORIDE	75-01-4	0.0100	ND	0.0256	ND
CHLOROETHANE	75-00-3	0.0100	ND	0.0264	ND
TRICHLOROFUOROMETHANE	75-69-4	0.0100	ND	0.0562	ND
1,1-DICHLOROETHENE	75-35-4	0.0100	ND	0.0397	ND
TRICHLOROTRIFLUOROETHANE	76-13-1	0.0250	ND	0.192	ND
METHYLENE CHLORIDE	75-09-2	0.0250	ND	0.0868	ND
TRANS-1,2-DICHLOROETHENE	156-60-5	0.0100	ND	0.0396	ND
MTBE	1634-04-4	0.0250	ND	0.0901	ND
1,1-DICHLOROETHANE	75-34-3	0.0100	ND	0.0405	ND
CIS-1,2-DICHLOROETHENE	156-59-2	0.0100	ND	0.0397	ND
CHLOROFORM	67-66-3	0.0100	ND	0.0488	ND
1,1,1-TRICHLOROETHANE	71-55-6	0.0100	ND	0.0546	ND
1,2-DICHLOROETHANE	107-06-2	0.0100	ND	0.0405	ND
TRICHLOROETHENE	79-01-6	0.0100	ND	0.0537	ND
TOLUENE	108-88-3	0.0250	ND	0.0942	ND
1,1,2-TRICHLOROETHANE	79-00-5	0.0100	ND	0.0546	ND
TETRACHLOROETHENE	127-18-4	0.0100	ND	0.0678	ND
CHLOROBENZENE	108-90-7	0.0100	ND	0.0460	ND
ETHYLBENZENE	100-41-4	0.0100	ND	0.0434	ND
XYLENE (M+P)	1330-20-7	0.0200	ND	0.0868	ND
XYLENE (O)	95-47-6	0.0100	ND	0.0434	ND
1,3-DICHLOROBENZENE	541-73-1	0.0100	ND	0.0601	ND
1,4-DICHLOROBENZENE	106-46-7	0.0100	ND	0.0601	ND
1,2-DICHLOROBENZENE	95-50-1	0.0100	ND	0.0601	ND
1,2,4-TRICHLOROBENZENE	120-82-1	0.0100	ND	0.0742	ND
1,2,3-TRICHLOROBENZENE	201-757-1	0.0100	ND	0.0742	ND

NOTES:

ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT

MRL - METHOD REPORTING LIMIT

NA - NOT APPLICABLE OR AVAILABLE

µg/cu. m VALUES ARE CALCULATED FROM PPB RESULTS USING NORMAL TEMPERATURE AND PRESSURE (NPT).

K PRIME, INC.
LABORATORY QUALITY CONTROL REPORT

LAB CONTROL ID: L030315A1
LAB CONTROL DUPLICATE ID: D030315A1

SAMPLE TYPE: AIR
BATCH ID: 030315A1
DATE ANALYZED: 03/03/2015

METHOD: VOC'S IN AIR
REFERENCE: EPA METHOD TO-15-SIM (GC-MS-SIM)

COMPOUND NAME	SPIKE ADDED (PPB)	REPORTING LIMIT (PPB)	SAMPLE CONC (PPB)	SPIKE CONC (PPB)	SPIKE REC (%)	REC LIMITS (%)
1,1-DICHLOROETHENE	0.400	0.010	ND	0.398	99	60 - 140
TRICHLOROETHENE	0.400	0.010	ND	0.428	107	60 - 140
BENZENE	0.400	0.025	ND	0.359	90	60 - 140
TOLUENE	0.400	0.025	ND	0.400	100	60 - 140
TETRACHLOROETHENE	0.400	0.010	ND	0.419	105	60 - 140

COMPOUND NAME	SPIKE ADDED (PPB)	SPIKE DUP CONC (PPB)	SPIKE DUP REC (%)	RPD (%)	RPD (%)	QC LIMITS REC (%)
1,1-DICHLOROETHENE	0.400	0.412	103	3.5	25	60 - 140
TRICHLOROETHENE	0.400	0.454	113	5.9	25	60 - 140
BENZENE	0.400	0.381	95	5.8	25	60 - 140
TOLUENE	0.400	0.418	104	4.4	25	60 - 140
TETRACHLOROETHENE	0.400	0.437	109	4.3	25	60 - 140

NOTES:

NA - NOT APPLICABLE OR AVAILABLE
 ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT

007747
41841

Treadwell & Rollo

Environmental and Geotechnical Consultant

CHAIN OF CUSTODY RECORD

555 Montgomery Street, Suite 1300, San Francisco, CA 94111 Ph: 415.955.9040/Fax: 415.955.9041
 501 14th Street, Third Floor, Oakland CA 94612 Ph: 510.874.4500/Fax: 510.874.4507
 777 Campus Commons Road, Suite 200, Sacramento, CA 95825 Ph: 916.565.7412/Fax: 916.565.7413
 50 Airport Parkway, Suite 175, San Jose, CA 95110 Ph: 408.437.7708/Fax: 408.437.7709

Site Name: TJ SU3-6
 Job Number: 750620720
 Project Manager/Contact: JOSH GRABER
 Samplers: NANCY TIA
 Recorder (Signature Required): [Signature]

Turnaround Time
Standard

Field Sample Identification No.	Date	Time	Matrix					No. Containers & Preservative				KPI #	Remarks	PC # (JN#)	
			Soil	Water	Air	Other	HCL	H ₂ SO ₄	HNO ₃	Ice	Hold				
SU3-6-IA1-2015-03-01	3/1/15	0808			X								130466	IC-A-804	07718
IA2-2015-03-01		0833											130467	IC-A-805	01121
IA3-2015-03-01		0816											130468	IC-A-784	07717
IA4-2015-03-01		0813											130469	IC-A-725	07641
IA5-2015-03-01		0837											130470	IC-A-727	07723
IA6-2015-03-01		0840											130471	IC-A-823	07716
IA7-2015-03-01		0842											130472	IC-A-513	00401
IA8-2015-03-01		0835											130473	IC-A-804	07640
PS1-2015-03-01		0822											130474	IC-A-511	07715
PS2-2015-03-01		0830											130475	IC-A-806	03505
AA1-2015-03-01	3/1/15	0845			X								130476	IC-A-425	07722
Analysis Requested: <u>See Attached</u> (3)															
Method of Shipment: <input checked="" type="checkbox"/> Lab courier <input type="checkbox"/> Fed Ex <input type="checkbox"/> Airborne <input type="checkbox"/> UPS															

Relinquished by: (Signature) [Signature] Date 3/2/15 Time 12:30
 Relinquished by: (Signature) [Signature] Date 3/2/15 Time 16:52
 Relinquished by: (Signature) [Signature] Date _____ Time _____

Sent to Laboratory (Name): K-Prime
 Laboratory Comments/Notes: _____

K PRIME, Inc.

CONSULTING ANALYTICAL CHEMISTS

3621 Westwind Blvd.
Santa Rosa CA 95403
Phone: 707 527 7574
FAX: 707 527 7879

TRANSMITTAL

DATE: 3/23/2015

TO: MR. JOSHUA GRABER
LANGAN TREADWELL ROLLO
555 MONTGOMERY STREET, STE. 1300
SAN FRANCISCO, CA 94111

ACCT: 4841
PROJ: 750620720

Phone: 415-955-9041
Email: jgraber@langan.com

FROM: Richard A. Kage1, Ph.D. *RMC 3/23/2015*
Laboratory Director

SUBJECT: LABORATORY RESULTS FOR YOUR PROJECT 750620720

Enclosed please find K Prime's laboratory reports for the following samples:

SAMPLE ID	TYPE	DATE	TIME	KPI LAB #
SU3-6-IA1-2015-03-06	AIR	03/06/15	16:30	130702
SU3-6-IA2-2015-03-06	AIR	03/06/15	17:35	130703
SU3-6-IA3-2015-03-06	AIR	03/06/15	17:28	130704
SU3-6-IA4-2015-03-06	AIR	03/06/15	17:27	130705
SU3-6-IA5-2015-03-06	AIR	03/06/15	17:37	130706
SU3-6-IA6-2015-03-06	AIR	03/06/15	17:32	130707
SU3-6-IA7-2015-03-06	AIR	03/06/15	17:40	130708
SU3-6-PS1-2015-03-06	AIR	03/06/15	17:20	130709
SU3-6-PS2-2015-03-06	AIR	03/06/15	17:30	130710
SU3-6-AA1-2015-03-06	AIR	03/06/15	17:42	130711
SU3-6-DUP1-2015-03-06	AIR	03/06/15	17:35	130712

The above listed sample group was received on 03/09/15 and tested as requested on the chain of custody document.

Please call me if you have any questions or need further information.
Thank you for this opportunity to be of service.

K PRIME, INC.
LABORATORY REPORT

K PRIME PROJECT: 4841
CLIENT PROJECT: 750620720

METHOD: VOC'S IN AIR
REFERENCE: EPA METHOD TO-15-SIM (GC-MS-SIM)

SAMPLE ID: SU3-6-IA1-2015-03-06
LAB NO: 130702
SAMPLE TYPE: AIR
DATE SAMPLED: 03/06/2015
TIME SAMPLED: 16:30
BATCH ID: 031515A1
DATE ANALYZED: 03/15/2015

COMPOUND NAME	CAS NO.	PPB (V/V)		µg/cu. m	
		MRL	SAMPLE CONC	MRL	SAMPLE CONC
VINYL CHLORIDE	75-01-4	0.0100	ND	0.0256	ND
CHLOROETHANE	75-00-3	0.0100	ND	0.0264	ND
TRICHLOROFLUOROMETHANE	75-69-4	0.0100	0.261	0.0562	1.47
1,1-DICHLOROETHENE	75-35-4	0.0100	ND	0.0397	ND
TRICHLOROTRIFLUOROETHANE	76-13-1	0.0250	0.0635	0.192	0.486
METHYLENE CHLORIDE	75-09-2	0.0250	0.254	0.0868	0.881
TRANS-1,2-DICHLOROETHENE	156-60-5	0.0100	ND	0.0396	ND
MTBE	1634-04-4	0.0250	ND	0.0901	ND
1,1-DICHLOROETHANE	75-34-3	0.0100	ND	0.0405	ND
CIS-1,2-DICHLOROETHENE	156-59-2	0.0100	ND	0.0397	ND
CHLOROFORM	67-66-3	0.0100	0.0739	0.0488	0.361
1,1,1-TRICHLOROETHANE	71-55-6	0.0100	0.0103	0.0546	0.0560
1,2-DICHLOROETHANE	107-06-2	0.0100	0.0253	0.0405	0.102
TRICHLOROETHENE	79-01-6	0.0100	0.0549	0.0537	0.295
TOLUENE	108-88-3	0.0250	1.05	0.0942	3.97
1,1,2-TRICHLOROETHANE	79-00-5	0.0100	ND	0.0546	ND
TETRACHLOROETHENE	127-18-4	0.0100	0.0144	0.0678	0.0975
CHLOROBENZENE	108-90-7	0.0100	ND	0.0460	ND
ETHYLBENZENE	100-41-4	0.0100	0.145	0.0434	0.632
XYLENE (M+P)	1330-20-7	0.0200	0.461	0.0868	2.00
XYLENE (O)	95-47-6	0.0100	0.177	0.0434	0.768
1,3-DICHLOROBENZENE	541-73-1	0.0100	ND	0.0601	ND
1,4-DICHLOROBENZENE	106-46-7	0.0100	0.0481	0.0601	0.289
1,2-DICHLOROBENZENE	95-50-1	0.0100	ND	0.0601	ND
1,2,4-TRICHLOROBENZENE	120-82-1	0.0100	ND	0.0742	ND
1,2,3-TRICHLOROBENZENE	201-757-1	0.0100	ND	0.0742	ND

NOTES:

ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT

MRL - METHOD REPORTING LIMIT

NA - NOT APPLICABLE OR AVAILABLE

µg/cu. m VALUES ARE CALCULATED FROM PPB RESULTS USING NORMAL TEMPERATURE AND PRESSURE (NPT).

APPROVED BY: RMK
DATE: 3/23/15

K PRIME, INC.
LABORATORY REPORT

K PRIME PROJECT: 4841
CLIENT PROJECT: 750620720

METHOD: VOC'S IN AIR
REFERENCE: EPA METHOD TO-15-SIM (GC-MS-SIM)

SAMPLE ID: SU3-6-IA3-2015-03-06
LAB NO: 130704
SAMPLE TYPE: AIR
DATE SAMPLED: 03/06/2015
TIME SAMPLED: 17:28
BATCH ID: 031515A1
DATE ANALYZED: 03/15/2015

COMPOUND NAME	CAS NO.	PPB (V/V)		µg/cu. m	
		MRL	SAMPLE CONC	MRL	SAMPLE CONC
VINYL CHLORIDE	75-01-4	0.0100	ND	0.0256	ND
CHLOROETHANE	75-00-3	0.0100	ND	0.0264	ND
TRICHLOROFLUOROMETHANE	75-69-4	0.0100	0.201	0.0562	1.13
1,1-DICHLOROETHENE	75-35-4	0.0100	ND	0.0397	ND
TRICHLOROTRIFLUOROETHANE	76-13-1	0.0250	0.0451	0.192	0.346
METHYLENE CHLORIDE	75-09-2	0.0250	0.175	0.0868	0.609
TRANS-1,2-DICHLOROETHENE	156-60-5	0.0100	ND	0.0396	ND
MTBE	1634-04-4	0.0250	ND	0.0901	ND
1,1-DICHLOROETHANE	75-34-3	0.0100	ND	0.0405	ND
CIS-1,2-DICHLOROETHENE	156-59-2	0.0100	ND	0.0397	ND
CHLOROFORM	67-66-3	0.0100	0.0492	0.0488	0.240
1,1,1-TRICHLOROETHANE	71-55-6	0.0100	ND	0.0546	ND
1,2-DICHLOROETHANE	107-06-2	0.0100	0.0231	0.0405	0.0936
TRICHLOROETHENE	79-01-6	0.0100	0.0238	0.0537	0.128
TOLUENE	108-88-3	0.0250	0.747	0.0942	2.81
1,1,2-TRICHLOROETHANE	79-00-5	0.0100	ND	0.0546	ND
TETRACHLOROETHENE	127-18-4	0.0100	0.0128	0.0678	0.0868
CHLOROBENZENE	108-90-7	0.0100	ND	0.0460	ND
ETHYLBENZENE	100-41-4	0.0100	0.128	0.0434	0.555
XYLENE (M+P)	1330-20-7	0.0200	0.340	0.0868	1.48
XYLENE (O)	95-47-6	0.0100	0.136	0.0434	0.590
1,3-DICHLOROBENZENE	541-73-1	0.0100	ND	0.0601	ND
1,4-DICHLOROBENZENE	106-46-7	0.0100	0.0212	0.0601	0.128
1,2-DICHLOROBENZENE	95-50-1	0.0100	ND	0.0601	ND
1,2,4-TRICHLOROBENZENE	120-82-1	0.0100	ND	0.0742	ND
1,2,3-TRICHLOROBENZENE	201-757-1	0.0100	ND	0.0742	ND

NOTES:

ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT

MRL - METHOD REPORTING LIMIT

NA - NOT APPLICABLE OR AVAILABLE

µg/cu. m VALUES ARE CALCULATED FROM PPB RESULTS USING NORMAL TEMPERATURE AND PRESSURE (NPT).

APPROVED BY: RMK
DATE: 3/23/15

K PRIME, INC.
LABORATORY REPORT

K PRIME PROJECT: 4841
CLIENT PROJECT: 750620720

METHOD: VOC'S IN AIR
REFERENCE: EPA METHOD TO-15-SIM (GC-MS-SIM)

SAMPLE ID: SU3-6-IA4-2015-03-06
LAB NO: 130705
SAMPLE TYPE: AIR
DATE SAMPLED: 03/06/2015
TIME SAMPLED: 17:27
BATCH ID: 031515A1
DATE ANALYZED: 03/16/2015

COMPOUND NAME	CAS NO.	PPB (V/V)		µg/cu. m	
		MRL	SAMPLE CONC	MRL	SAMPLE CONC
VINYL CHLORIDE	75-01-4	0.0100	ND	0.0256	ND
CHLOROETHANE	75-00-3	0.0100	ND	0.0264	ND
TRICHLOROFLUOROMETHANE	75-69-4	0.0100	0.234	0.0562	1.32
1,1-DICHLOROETHENE	75-35-4	0.0100	ND	0.0397	ND
TRICHLOROTRIFLUOROETHANE	76-13-1	0.0250	0.0561	0.192	0.430
METHYLENE CHLORIDE	75-09-2	0.0250	0.202	0.0868	0.700
TRANS-1,2-DICHLOROETHENE	156-60-5	0.0100	ND	0.0396	ND
MTBE	1634-04-4	0.0250	ND	0.0901	ND
1,1-DICHLOROETHANE	75-34-3	0.0100	ND	0.0405	ND
CIS-1,2-DICHLOROETHENE	156-59-2	0.0100	ND	0.0397	ND
CHLOROFORM	67-66-3	0.0100	0.0622	0.0488	0.304
1,1,1-TRICHLOROETHANE	71-55-6	0.0100	ND	0.0546	ND
1,2-DICHLOROETHANE	107-06-2	0.0100	0.0239	0.0405	0.0966
TRICHLOROETHENE	79-01-6	0.0100	0.0577	0.0537	0.310
TOLUENE	108-88-3	0.0250	0.816	0.0942	3.07
1,1,2-TRICHLOROETHANE	79-00-5	0.0100	ND	0.0546	ND
TETRACHLOROETHENE	127-18-4	0.0100	0.0127	0.0678	0.0860
CHLOROBENZENE	108-90-7	0.0100	ND	0.0460	ND
ETHYLBENZENE	100-41-4	0.0100	0.109	0.0434	0.474
XYLENE (M+P)	1330-20-7	0.0200	0.335	0.0868	1.45
XYLENE (O)	95-47-6	0.0100	0.129	0.0434	0.560
1,3-DICHLOROBENZENE	541-73-1	0.0100	ND	0.0601	ND
1,4-DICHLOROBENZENE	106-46-7	0.0100	0.0377	0.0601	0.227
1,2-DICHLOROBENZENE	95-50-1	0.0100	ND	0.0601	ND
1,2,4-TRICHLOROBENZENE	120-82-1	0.0100	ND	0.0742	ND
1,2,3-TRICHLOROBENZENE	201-757-1	0.0100	ND	0.0742	ND

NOTES:

ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT

MRL - METHOD REPORTING LIMIT

NA - NOT APPLICABLE OR AVAILABLE

µg/cu. m VALUES ARE CALCULATED FROM PPB RESULTS USING NORMAL TEMPERATURE AND PRESSURE (NPT).

APPROVED BY:
DATE: 3/23/15

K PRIME, INC.
LABORATORY REPORT

K PRIME PROJECT: 4841
CLIENT PROJECT: 750620720

METHOD: VOC'S IN AIR
REFERENCE: EPA METHOD TO-15-SIM (GC-MS-SIM)

SAMPLE ID: SU3-6-IA5-2015-03-06
LAB NO: 130706
SAMPLE TYPE: AIR
DATE SAMPLED: 03/06/2015
TIME SAMPLED: 17:37
BATCH ID: 031515A1
DATE ANALYZED: 03/16/2015

COMPOUND NAME	CAS NO.	PPB (V/V)		µg/cu. m	
		MRL	SAMPLE CONC	MRL	SAMPLE CONC
VINYL CHLORIDE	75-01-4	0.0100	ND	0.0256	ND
CHLOROETHANE	75-00-3	0.0100	ND	0.0264	ND
TRICHLOROFLUOROMETHANE	75-69-4	0.0100	0.233	0.0562	1.31
1,1-DICHLOROETHENE	75-35-4	0.0100	ND	0.0397	ND
TRICHLOROTRIFLUOROETHANE	76-13-1	0.0250	0.0547	0.192	0.419
METHYLENE CHLORIDE	75-09-2	0.0250	0.190	0.0868	0.660
TRANS-1,2-DICHLOROETHENE	156-60-5	0.0100	ND	0.0396	ND
MTBE	1634-04-4	0.0250	ND	0.0901	ND
1,1-DICHLOROETHANE	75-34-3	0.0100	ND	0.0405	ND
CIS-1,2-DICHLOROETHENE	156-59-2	0.0100	ND	0.0397	ND
CHLOROFORM	67-66-3	0.0100	0.0561	0.0488	0.274
1,1,1-TRICHLOROETHANE	71-55-6	0.0100	ND	0.0546	ND
1,2-DICHLOROETHANE	107-06-2	0.0100	0.0229	0.0405	0.0925
TRICHLOROETHENE	79-01-6	0.0100	0.0240	0.0537	0.129
TOLUENE	108-88-3	0.0250	0.682	0.0942	2.57
1,1,2-TRICHLOROETHANE	79-00-5	0.0100	ND	0.0546	ND
TETRACHLOROETHENE	127-18-4	0.0100	0.0118	0.0678	0.0797
CHLOROBENZENE	108-90-7	0.0100	ND	0.0460	ND
ETHYLBENZENE	100-41-4	0.0100	0.0940	0.0434	0.408
XYLENE (M+P)	1330-20-7	0.0200	0.279	0.0868	1.21
XYLENE (O)	95-47-6	0.0100	0.112	0.0434	0.486
1,3-DICHLOROBENZENE	541-73-1	0.0100	ND	0.0601	ND
1,4-DICHLOROBENZENE	106-46-7	0.0100	0.0301	0.0601	0.181
1,2-DICHLOROBENZENE	95-50-1	0.0100	ND	0.0601	ND
1,2,4-TRICHLOROBENZENE	120-82-1	0.0100	ND	0.0742	ND
1,2,3-TRICHLOROBENZENE	201-757-1	0.0100	ND	0.0742	ND

NOTES:

ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT

MRL - METHOD REPORTING LIMIT

NA - NOT APPLICABLE OR AVAILABLE

µg/cu. m VALUES ARE CALCULATED FROM PPB RESULTS USING NORMAL TEMPERATURE AND PRESSURE (NPT).

APPROVED BY:
DATE: 3/23/15

K PRIME, INC.
LABORATORY REPORT

K PRIME PROJECT: 4841
CLIENT PROJECT: 750620720

METHOD: VOC'S IN AIR
REFERENCE: EPA METHOD TO-15-SIM (GC-MS-SIM)

SAMPLE ID: SU3-6-IA6-2015-03-06
LAB NO: 130707
SAMPLE TYPE: AIR
DATE SAMPLED: 03/06/2015
TIME SAMPLED: 17:32
BATCH ID: 031515A1
DATE ANALYZED: 03/16/2015

COMPOUND NAME	CAS NO.	PPB (V/V)		µg/cu. m	
		MRL	SAMPLE CONC	MRL	SAMPLE CONC
VINYL CHLORIDE	75-01-4	0.0100	ND	0.0256	ND
CHLOROETHANE	75-00-3	0.0100	ND	0.0264	ND
TRICHLOROFUOROMETHANE	75-69-4	0.0100	0.227	0.0562	1.27
1,1-DICHLOROETHENE	75-35-4	0.0100	ND	0.0397	ND
TRICHLOROTRIFLUOROETHANE	76-13-1	0.0250	0.0546	0.192	0.418
METHYLENE CHLORIDE	75-09-2	0.0250	0.191	0.0868	0.663
TRANS-1,2-DICHLOROETHENE	156-60-5	0.0100	ND	0.0396	ND
MTBE	1634-04-4	0.0250	ND	0.0901	ND
1,1-DICHLOROETHANE	75-34-3	0.0100	ND	0.0405	ND
CIS-1,2-DICHLOROETHENE	156-59-2	0.0100	ND	0.0397	ND
CHLOROFORM	67-66-3	0.0100	0.0449	0.0488	0.219
1,1,1-TRICHLOROETHANE	71-55-6	0.0100	ND	0.0546	ND
1,2-DICHLOROETHANE	107-06-2	0.0100	0.0238	0.0405	0.0964
TRICHLOROETHENE	79-01-6	0.0100	0.0240	0.0537	0.129
TOLUENE	108-88-3	0.0250	0.761	0.0942	2.87
1,1,2-TRICHLOROETHANE	79-00-5	0.0100	ND	0.0546	ND
TETRACHLOROETHENE	127-18-4	0.0100	0.0121	0.0678	0.0823
CHLOROBENZENE	108-90-7	0.0100	ND	0.0460	ND
ETHYLBENZENE	100-41-4	0.0100	0.122	0.0434	0.528
XYLENE (M+P)	1330-20-7	0.0200	0.352	0.0868	1.53
XYLENE (O)	95-47-6	0.0100	0.139	0.0434	0.604
1,3-DICHLOROBENZENE	541-73-1	0.0100	ND	0.0601	ND
1,4-DICHLOROBENZENE	106-46-7	0.0100	0.0224	0.0601	0.135
1,2-DICHLOROBENZENE	95-50-1	0.0100	ND	0.0601	ND
1,2,4-TRICHLOROBENZENE	120-82-1	0.0100	ND	0.0742	ND
1,2,3-TRICHLOROBENZENE	201-757-1	0.0100	ND	0.0742	ND

NOTES:

ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT

MRL - METHOD REPORTING LIMIT

NA - NOT APPLICABLE OR AVAILABLE

µg/cu. m VALUES ARE CALCULATED FROM PPB RESULTS USING NORMAL TEMPERATURE AND PRESSURE (NPT).

APPROVED BY: RMC
DATE: 3/23/15

K PRIME, INC.
LABORATORY REPORT

K PRIME PROJECT: 4841
CLIENT PROJECT: 750620720

METHOD: VOC'S IN AIR
REFERENCE: EPA METHOD TO-15-SIM (GC-MS-SIM)

SAMPLE ID: SU3-6-IA7-2015-03-06
LAB NO: 130708
SAMPLE TYPE: AIR
DATE SAMPLED: 03/06/2015
TIME SAMPLED: 17:40
BATCH ID: 031515A1
DATE ANALYZED: 03/16/2015

COMPOUND NAME	CAS NO.	PPB (V/V)		µg/cu. m	
		MRL	SAMPLE CONC	MRL	SAMPLE CONC
VINYL CHLORIDE	75-01-4	0.0100	ND	0.0256	ND
CHLOROETHANE	75-00-3	0.0100	ND	0.0264	ND
TRICHLOROFLUOROMETHANE	75-69-4	0.0100	0.191	0.0562	1.07
1,1-DICHLOROETHENE	75-35-4	0.0100	ND	0.0397	ND
TRICHLOROTRIFLUOROETHANE	76-13-1	0.0250	0.0423	0.192	0.324
METHYLENE CHLORIDE	75-09-2	0.0250	0.148	0.0868	0.513
TRANS-1,2-DICHLOROETHENE	156-60-5	0.0100	ND	0.0396	ND
MTBE	1634-04-4	0.0250	ND	0.0901	ND
1,1-DICHLOROETHANE	75-34-3	0.0100	ND	0.0405	ND
CIS-1,2-DICHLOROETHENE	156-59-2	0.0100	ND	0.0397	ND
CHLOROFORM	67-66-3	0.0100	0.0336	0.0488	0.164
1,1,1-TRICHLOROETHANE	71-55-6	0.0100	ND	0.0546	ND
1,2-DICHLOROETHANE	107-06-2	0.0100	0.0224	0.0405	0.0907
TRICHLOROETHENE	79-01-6	0.0100	ND	0.0537	ND
TOLUENE	108-88-3	0.0250	0.636	0.0942	2.40
1,1,2-TRICHLOROETHANE	79-00-5	0.0100	ND	0.0546	ND
TETRACHLOROETHENE	127-18-4	0.0100	ND	0.0678	ND
CHLOROBENZENE	108-90-7	0.0100	ND	0.0460	ND
ETHYLBENZENE	100-41-4	0.0100	0.104	0.0434	0.452
XYLENE (M+P)	1330-20-7	0.0200	0.297	0.0868	1.29
XYLENE (O)	95-47-6	0.0100	0.121	0.0434	0.527
1,3-DICHLOROBENZENE	541-73-1	0.0100	ND	0.0601	ND
1,4-DICHLOROBENZENE	106-46-7	0.0100	0.0176	0.0601	0.106
1,2-DICHLOROBENZENE	95-50-1	0.0100	ND	0.0601	ND
1,2,4-TRICHLOROBENZENE	120-82-1	0.0100	ND	0.0742	ND
1,2,3-TRICHLOROBENZENE	201-757-1	0.0100	ND	0.0742	ND

NOTES:

ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT

MRL - METHOD REPORTING LIMIT

NA - NOT APPLICABLE OR AVAILABLE

µg/cu. m VALUES ARE CALCULATED FROM PPB RESULTS USING NORMAL TEMPERATURE AND PRESSURE (NPT).

APPROVED BY: RAK
DATE: 3/23/15

K PRIME, INC.
LABORATORY REPORT

K PRIME PROJECT: 4841
 CLIENT PROJECT: 750620720

METHOD: VOC'S IN AIR
 REFERENCE: EPA METHOD TO-15-SIM (GC-MS-SIM)

SAMPLE ID: SU3-6-PS1-2015-03-06
 LAB NO: 130709
 SAMPLE TYPE: AIR
 DATE SAMPLED: 03/06/2015
 TIME SAMPLED: 17:20
 BATCH ID: 031515A1
 DATE ANALYZED: 03/16/2015

COMPOUND NAME	CAS NO.	PPB (V/V)		µg/cu. m	
		MRL	SAMPLE CONC	MRL	SAMPLE CONC
VINYL CHLORIDE	75-01-4	0.0100	ND	0.0256	ND
CHLOROETHANE	75-00-3	0.0100	ND	0.0264	ND
TRICHLOROFUOROMETHANE	75-69-4	0.0100	0.258	0.0562	1.45
1,1-DICHLOROETHENE	75-35-4	0.0100	ND	0.0397	ND
TRICHLOROTRIFLUOROETHANE	76-13-1	0.0250	0.0651	0.192	0.499
METHYLENE CHLORIDE	75-09-2	0.0250	0.236	0.0868	0.818
TRANS-1,2-DICHLOROETHENE	156-60-5	0.0100	ND	0.0396	ND
MTBE	1634-04-4	0.0250	ND	0.0901	ND
1,1-DICHLOROETHANE	75-34-3	0.0100	ND	0.0405	ND
CIS-1,2-DICHLOROETHENE	156-59-2	0.0100	ND	0.0397	ND
CHLOROFORM	67-66-3	0.0100	0.132	0.0488	0.643
1,1,1-TRICHLOROETHANE	71-55-6	0.0100	0.0113	0.0546	0.0617
1,2-DICHLOROETHANE	107-06-2	0.0100	0.0281	0.0405	0.114
TRICHLOROETHENE	79-01-6	0.0100	0.152	0.0537	0.819
TOLUENE	108-88-3	0.0250	0.750	0.0942	2.83
1,1,2-TRICHLOROETHANE	79-00-5	0.0100	ND	0.0546	ND
TETRACHLOROETHENE	127-18-4	0.0100	0.0147	0.0678	0.0996
CHLOROBENZENE	108-90-7	0.0100	ND	0.0460	ND
ETHYLBENZENE	100-41-4	0.0100	0.0890	0.0434	0.386
XYLENE (M+P)	1330-20-7	0.0200	0.235	0.0868	1.02
XYLENE (O)	95-47-6	0.0100	0.0972	0.0434	0.422
1,3-DICHLOROBENZENE	541-73-1	0.0100	ND	0.0601	ND
1,4-DICHLOROBENZENE	106-46-7	0.0100	0.0284	0.0601	0.171
1,2-DICHLOROBENZENE	95-50-1	0.0100	ND	0.0601	ND
1,2,4-TRICHLOROBENZENE	120-82-1	0.0100	ND	0.0742	ND
1,2,3-TRICHLOROBENZENE	201-757-1	0.0100	ND	0.0742	ND

NOTES:

ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT

MRL - METHOD REPORTING LIMIT

NA - NOT APPLICABLE OR AVAILABLE

µg/cu. m VALUES ARE CALCULATED FROM PPB RESULTS USING NORMAL TEMPERATURE AND PRESSURE (NPT).

APPROVED BY: RAC
 DATE: 3/23/15

K PRIME, INC.
LABORATORY REPORT

K PRIME PROJECT: 4841
CLIENT PROJECT: 750620720

METHOD: VOC'S IN AIR
REFERENCE: EPA METHOD TO-15-SIM (GC-MS-SIM)

SAMPLE ID: SU3-6-PS2-2015-03-06
LAB NO: 130710
SAMPLE TYPE: AIR
DATE SAMPLED: 03/06/2015
TIME SAMPLED: 17:30
BATCH ID: 031515A1
DATE ANALYZED: 03/16/2015

COMPOUND NAME	CAS NO.	PPB (V/V)		µg/cu. m	
		MRL	SAMPLE CONC	MRL	SAMPLE CONC
VINYL CHLORIDE	75-01-4	0.0100	ND	0.0256	ND
CHLOROETHANE	75-00-3	0.0100	ND	0.0264	ND
TRICHLOROFLUOROMETHANE	75-69-4	0.0100	0.271	0.0562	1.53
1,1-DICHLOROETHENE	75-35-4	0.0100	ND	0.0397	ND
TRICHLOROTRIFLUOROETHANE	76-13-1	0.0250	0.0662	0.192	0.507
METHYLENE CHLORIDE	75-09-2	0.0250	0.249	0.0868	0.864
TRANS-1,2-DICHLOROETHENE	156-60-5	0.0100	ND	0.0396	ND
MTBE	1634-04-4	0.0250	ND	0.0901	ND
1,1-DICHLOROETHANE	75-34-3	0.0100	ND	0.0405	ND
CIS-1,2-DICHLOROETHENE	156-59-2	0.0100	ND	0.0397	ND
CHLOROFORM	67-66-3	0.0100	0.471	0.0488	2.30
1,1,1-TRICHLOROETHANE	71-55-6	0.0100	0.0109	0.0546	0.0594
1,2-DICHLOROETHANE	107-06-2	0.0100	0.0260	0.0405	0.105
TRICHLOROETHENE	79-01-6	0.0100	0.0619	0.0537	0.333
TOLUENE	108-88-3	0.0250	0.897	0.0942	3.38
1,1,2-TRICHLOROETHANE	79-00-5	0.0100	ND	0.0546	ND
TETRACHLOROETHENE	127-18-4	0.0100	0.0170	0.0678	0.115
CHLOROBENZENE	108-90-7	0.0100	ND	0.0460	ND
ETHYLBENZENE	100-41-4	0.0100	0.117	0.0434	0.509
XYLENE (M+P)	1330-20-7	0.0200	0.357	0.0868	1.55
XYLENE (O)	95-47-6	0.0100	0.142	0.0434	0.618
1,3-DICHLOROBENZENE	541-73-1	0.0100	ND	0.0601	ND
1,4-DICHLOROBENZENE	106-46-7	0.0100	0.0663	0.0601	0.398
1,2-DICHLOROBENZENE	95-50-1	0.0100	ND	0.0601	ND
1,2,4-TRICHLOROBENZENE	120-82-1	0.0100	ND	0.0742	ND
1,2,3-TRICHLOROBENZENE	201-757-1	0.0100	ND	0.0742	ND

NOTES:

ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT

MRL - METHOD REPORTING LIMIT

NA - NOT APPLICABLE OR AVAILABLE

µg/cu. m VALUES ARE CALCULATED FROM PPB RESULTS USING NORMAL TEMPERATURE AND PRESSURE (NPT).

APPROVED BY: RAM
DATE: 3/23/15

K PRIME, INC.
LABORATORY REPORT

K PRIME PROJECT: 4841
CLIENT PROJECT: 750620720

METHOD: VOC'S IN AIR
REFERENCE: EPA METHOD TO-15-SIM (GC-MS-SIM)

SAMPLE ID: SU3-6-AA1-2015-03-06
LAB NO: 130711
SAMPLE TYPE: AIR
DATE SAMPLED: 03/06/2015
TIME SAMPLED: 17:42
BATCH ID: 031515A1
DATE ANALYZED: 03/15/2015

COMPOUND NAME	CAS NO.	PPB (V/V)		µg/cu. m	
		MRL	SAMPLE CONC	MRL	SAMPLE CONC
VINYL CHLORIDE	75-01-4	0.0100	ND	0.0256	ND
CHLOROETHANE	75-00-3	0.0100	ND	0.0264	ND
TRICHLOROFLUOROMETHANE	75-69-4	0.0100	0.228	0.0562	1.28
1,1-DICHLOROETHENE	75-35-4	0.0100	ND	0.0397	ND
TRICHLOROTRIFLUOROETHANE	76-13-1	0.0250	0.0531	0.192	0.407
METHYLENE CHLORIDE	75-09-2	0.0250	0.151	0.0868	0.526
TRANS-1,2-DICHLOROETHENE	156-60-5	0.0100	ND	0.0396	ND
MTBE	1634-04-4	0.0250	ND	0.0901	ND
1,1-DICHLOROETHANE	75-34-3	0.0100	ND	0.0405	ND
CIS-1,2-DICHLOROETHENE	156-59-2	0.0100	ND	0.0397	ND
CHLOROFORM	67-66-3	0.0100	0.0319	0.0488	0.156
1,1,1-TRICHLOROETHANE	71-55-6	0.0100	ND	0.0546	ND
1,2-DICHLOROETHANE	107-06-2	0.0100	0.0181	0.0405	0.0731
TRICHLOROETHENE	79-01-6	0.0100	ND	0.0537	ND
TOLUENE	108-88-3	0.0250	0.385	0.0942	1.45
1,1,2-TRICHLOROETHANE	79-00-5	0.0100	ND	0.0546	ND
TETRACHLOROETHENE	127-18-4	0.0100	ND	0.0678	ND
CHLOROBENZENE	108-90-7	0.0100	ND	0.0460	ND
ETHYLBENZENE	100-41-4	0.0100	0.0729	0.0434	0.317
XYLENE (M+P)	1330-20-7	0.0200	0.218	0.0868	0.946
XYLENE (O)	95-47-6	0.0100	0.0869	0.0434	0.377
1,3-DICHLOROBENZENE	541-73-1	0.0100	ND	0.0601	ND
1,4-DICHLOROBENZENE	106-46-7	0.0100	0.0184	0.0601	0.110
1,2-DICHLOROBENZENE	95-50-1	0.0100	ND	0.0601	ND
1,2,4-TRICHLOROBENZENE	120-82-1	0.0100	ND	0.0742	ND
1,2,3-TRICHLOROBENZENE	201-757-1	0.0100	ND	0.0742	ND

NOTES:

ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT

MRL - METHOD REPORTING LIMIT

NA - NOT APPLICABLE OR AVAILABLE

µg/cu. m VALUES ARE CALCULATED FROM PPB RESULTS USING NORMAL TEMPERATURE AND PRESSURE (NPT).

APPROVED BY: *SM*
DATE: 3/23/15

K PRIME, INC.
LABORATORY REPORT

K PRIME PROJECT: 4841
CLIENT PROJECT: 750620720

METHOD: VOC'S IN AIR
REFERENCE: EPA METHOD TO-15-SIM (GC-MS-SIM)

SAMPLE ID: SU3-6-DUP1-2015-03-06
LAB NO: 130712
SAMPLE TYPE: AIR
DATE SAMPLED: 03/06/2015
TIME SAMPLED: 17:35
BATCH ID: 031515A1
DATE ANALYZED: 03/16/2015

COMPOUND NAME	CAS NO.	PPB (V/V)		µg/cu. m	
		MRL	SAMPLE CONC	MRL	SAMPLE CONC
VINYL CHLORIDE	75-01-4	0.0100	ND	0.0256	ND
CHLOROETHANE	75-00-3	0.0100	ND	0.0264	ND
TRICHLOROFLUOROMETHANE	75-69-4	0.0100	0.241	0.0562	1.36
1,1-DICHLOROETHENE	75-35-4	0.0100	ND	0.0397	ND
TRICHLOROTRIFLUOROETHANE	76-13-1	0.0250	0.0578	0.192	0.443
METHYLENE CHLORIDE	75-09-2	0.0250	0.213	0.0868	0.741
TRANS-1,2-DICHLOROETHENE	156-60-5	0.0100	ND	0.0396	ND
MTBE	1634-04-4	0.0250	ND	0.0901	ND
1,1-DICHLOROETHANE	75-34-3	0.0100	ND	0.0405	ND
CIS-1,2-DICHLOROETHENE	156-59-2	0.0100	ND	0.0397	ND
CHLOROFORM	67-66-3	0.0100	0.0630	0.0488	0.308
1,1,1-TRICHLOROETHANE	71-55-6	0.0100	ND	0.0546	ND
1,2-DICHLOROETHANE	107-06-2	0.0100	0.0228	0.0405	0.0924
TRICHLOROETHENE	79-01-6	0.0100	0.0285	0.0537	0.153
TOLUENE	108-88-3	0.0250	0.733	0.0942	2.76
1,1,2-TRICHLOROETHANE	79-00-5	0.0100	ND	0.0546	ND
TETRACHLOROETHENE	127-18-4	0.0100	0.0130	0.0678	0.0878
CHLOROBENZENE	108-90-7	0.0100	ND	0.0460	ND
ETHYLBENZENE	100-41-4	0.0100	0.102	0.0434	0.441
XYLENE (M+P)	1330-20-7	0.0200	0.305	0.0868	1.32
XYLENE (O)	95-47-6	0.0100	0.123	0.0434	0.532
1,3-DICHLOROBENZENE	541-73-1	0.0100	ND	0.0601	ND
1,4-DICHLOROBENZENE	106-46-7	0.0100	0.0194	0.0601	0.117
1,2-DICHLOROBENZENE	95-50-1	0.0100	ND	0.0601	ND
1,2,4-TRICHLOROBENZENE	120-82-1	0.0100	ND	0.0742	ND
1,2,3-TRICHLOROBENZENE	201-757-1	0.0100	ND	0.0742	ND

NOTES:

ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT

MRL - METHOD REPORTING LIMIT

NA - NOT APPLICABLE OR AVAILABLE

µg/cu. m VALUES ARE CALCULATED FROM PPB RESULTS USING NORMAL TEMPERATURE AND PRESSURE (NPT).

APPROVED BY: RAK
DATE: 3/23/15

K PRIME, INC.
LABORATORY METHOD BLANK REPORT

METHOD BLANK ID: B031515A1
SAMPLE TYPE: AIR

BATCH ID: 031515A1
DATE ANALYZED: 03/15/2015

METHOD: VOC'S IN AIR
REFERENCE: EPA METHOD TO-15-SIM (GC-MS-SIM)

COMPOUND NAME	CAS NO.	PPB (V/V)		µg/cu. m	
		MRL	SAMPLE CONC	MRL	SAMPLE CONC
VINYL CHLORIDE	75-01-4	0.0100	ND	0.0256	ND
CHLOROETHANE	75-00-3	0.0100	ND	0.0264	ND
TRICHLOROFUOROMETHANE	75-69-4	0.0100	ND	0.0562	ND
1,1-DICHLOROETHENE	75-35-4	0.0100	ND	0.0397	ND
TRICHLOROTRIFLUOROETHANE	76-13-1	0.0250	ND	0.192	ND
METHYLENE CHLORIDE	75-09-2	0.0250	ND	0.0868	ND
TRANS-1,2-DICHLOROETHENE	156-60-5	0.0100	ND	0.0396	ND
MTBE	1634-04-4	0.0250	ND	0.0901	ND
1,1-DICHLOROETHANE	75-34-3	0.0100	ND	0.0405	ND
CIS-1,2-DICHLOROETHENE	156-59-2	0.0100	ND	0.0397	ND
CHLOROFORM	67-66-3	0.0100	ND	0.0488	ND
1,1,1-TRICHLOROETHANE	71-55-6	0.0100	ND	0.0546	ND
1,2-DICHLOROETHANE	107-06-2	0.0100	ND	0.0405	ND
TRICHLOROETHENE	79-01-6	0.0100	ND	0.0537	ND
TOLUENE	108-88-3	0.0250	ND	0.0942	ND
1,1,2-TRICHLOROETHANE	79-00-5	0.0100	ND	0.0546	ND
TETRACHLOROETHENE	127-18-4	0.0100	ND	0.0678	ND
CHLOROBENZENE	108-90-7	0.0100	ND	0.0460	ND
ETHYLBENZENE	100-41-4	0.0100	ND	0.0434	ND
XYLENE (M+P)	1330-20-7	0.0200	ND	0.0868	ND
XYLENE (O)	95-47-6	0.0100	ND	0.0434	ND
1,3-DICHLOROBENZENE	541-73-1	0.0100	ND	0.0601	ND
1,4-DICHLOROBENZENE	106-46-7	0.0100	ND	0.0601	ND
1,2-DICHLOROBENZENE	95-50-1	0.0100	ND	0.0601	ND
1,2,4-TRICHLOROBENZENE	120-82-1	0.0100	ND	0.0742	ND
1,2,3-TRICHLOROBENZENE	201-757-1	0.0100	ND	0.0742	ND

NOTES:

ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT

MRL - METHOD REPORTING LIMIT

NA - NOT APPLICABLE OR AVAILABLE

µg/cu. m VALUES ARE CALCULATED FROM PPB RESULTS USING NORMAL TEMPERATURE AND PRESSURE (NPT).

K PRIME, INC.
LABORATORY QUALITY CONTROL REPORT

LAB CONTROL ID: L031515A1
LAB CONTROL DUPLICATE ID: D031515A1

SAMPLE TYPE: AIR
BATCH ID: 031515A1
DATE ANALYZED: 03/15/2015

METHOD: VOC'S IN AIR
REFERENCE: EPA METHOD TO-15-SIM (GC-MS-SIM)

COMPOUND NAME	SPIKE ADDED (PPB)	REPORTING LIMIT (PPB)	SAMPLE CONC (PPB)	SPIKE CONC (PPB)	SPIKE REC (%)	REC LIMITS (%)
1,1-DICHLOROETHENE	0.400	0.010	ND	0.412	103	60 - 140
TRICHLOROETHENE	0.400	0.010	ND	0.433	108	60 - 140
BENZENE	0.400	0.025	ND	0.335	84	60 - 140
TOLUENE	0.400	0.025	ND	0.378	95	60 - 140
TETRACHLOROETHENE	0.400	0.010	ND	0.416	104	60 - 140

COMPOUND NAME	SPIKE ADDED (PPB)	SPIKE DUP CONC (PPB)	SPIKE DUP REC (%)	RPD (%)	RPD (%)	QC LIMITS REC (%)
1,1-DICHLOROETHENE	0.400	0.405	101	1.7	25	60 - 140
TRICHLOROETHENE	0.400	0.437	109	0.9	25	60 - 140
BENZENE	0.400	0.344	86	2.6	25	60 - 140
TOLUENE	0.400	0.384	96	1.6	25	60 - 140
TETRACHLOROETHENE	0.400	0.419	105	0.9	25	60 - 140

NOTES:

NA - NOT APPLICABLE OR AVAILABLE
 ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT

Treadwell & Rollo

Environmental and Geotechnical Consultant

CHAIN OF CUSTODY RECORD

555 Montgomery Street, Suite 1300, San Francisco, CA 94111 Ph: 415.955.9040/Fax: 415.955.9041
 501 14th Street, Third Floor, Oakland CA 94612 Ph: 510.874.4500/Fax: 510.874.4507
 777 Campus Commons Road, Suite 200, Sacramento, CA 95825 Ph: 916.565.7412/Fax: 916.565.7413
 50 Airport Parkway, Suite 175, San Jose, CA 95110 Ph: 408.437.7708/Fax: 408.437.7709

Site Name: II SUMMITWAY/BLK
Job Number: 750620720
Project Manager/Contact: JOSH GRABER
Samplers: NAINCY TA
Recorder (Signature Required): [Signature]

Turnaround Time Standard

Field Sample Identification No.	Date	Start Time	End Time Lab Sample No.	Matrix				No. Containers & Preservative				Analysis Requested	KPI#	Hold	Can #	PC# (SN#)
				Soil	Water	Air	Other	H ₂ SO ₄	HNO ₃	Ice	Other					
SU3-6-1A1-2015-03-06	3/6/15	0813	1630			X							130702		16A-791	07698
SU3-6-1A2-2015-03-06		0825	1735										130703		16A-105	05505
SU3-6-1A3-2015-03-06		0820	1728										130704		16A-423	00803
SU3-6-1A4-2015-03-06		0810	1727										130705		16A-722	07719
SU3-6-1A5-2015-03-06		0830	1737										130706		16A-202	01121
SU3-6-1A6-2015-03-06		0840	1732										130707		16A-511	00401
SU3-6-1A7-2015-03-06		0842	1740										130708		16A-303	05504
SU3-6-1A8-2015-03-06		0816	1720										130709		16A-102	05503
SU3-6-1A9-2015-03-06		0835	1730										130710		16A-508	07720
SU3-6-1A10-2015-03-06		0800	1742										130711		16A-804	00318
SU3-6-DUP1-2015-03-06	3/6/15	0827	1735			X							130712		16A-805	07642

Relinquished by: (Signature) <u>[Signature]</u>	Date 03/06/15	Time 2000
Relinquished by: (Signature) <u>[Signature]</u>	Date 3/6/15	Time 22:21
Relinquished by: (Signature) <u>[Signature]</u>	Date	Time

Sent to Laboratory (Name): K-Prime
 Laboratory Comments/Notes: _____

Method of Shipment: Lab courier Fed Ex Airborne UPS
 Hand Carried Private Courier (Co. Name)