

MFA Leasehold EIMP Appendices B and C

3 March 2015

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Erler & Kalinowski, Inc. (“EKI”) has provided a paper copy of the *Environmental Issues Management Plan* (“EIMP”) for the MFA Leasehold on the Former Naval Air Station Moffett Field, California, dated 3 March 2015, prepared by EKI, to our CLIENT, Planetary Ventures, LLC.

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Sincerely,

ERLER & KALINOWSKI, INC.



Michelle K. King, Ph.D.
President

APPENDIX B

2013 Groundwater Monitoring and Extraction Well Locations

1. Figures 2-1, 2-2, 2-3, and 3-1 from *Final 2013 Annual Groundwater Report for Installation Restoration Sites 26 and 28, Former Naval Air Station Moffett Field, Moffett Field, California*, SES-TECH Remediation Services, April 2014.
2. Appendix B – Groundwater Elevations and Contour Maps – All MEW Wells, March and September 2013 from *2013 Annual Progress Report Volume 2: Appendices, Middlefield-Ellis-Whisman Regional Groundwater Remediation Program, Mountain View, California*, Geocyntec Consultants, 15 April 2014.
3. Figure 4 from *2013 Annual Progress Report, NASA Ames Groundwater Treatment System, Regional Groundwater Remediation Program*, Earth Resources Technology, Inc., 18 April 2014.

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FINAL
2013 ANNUAL GROUNDWATER REPORT
FOR INSTALLATION RESTORATION
SITES 26 AND 28
FORMER NAVAL AIR STATION MOFFETT FIELD
MOFFETT FIELD, CALIFORNIA

CONTRACT No. N62473-07-D-3220
CTO No. 0012

DCN: SEST-3220-0012-0111

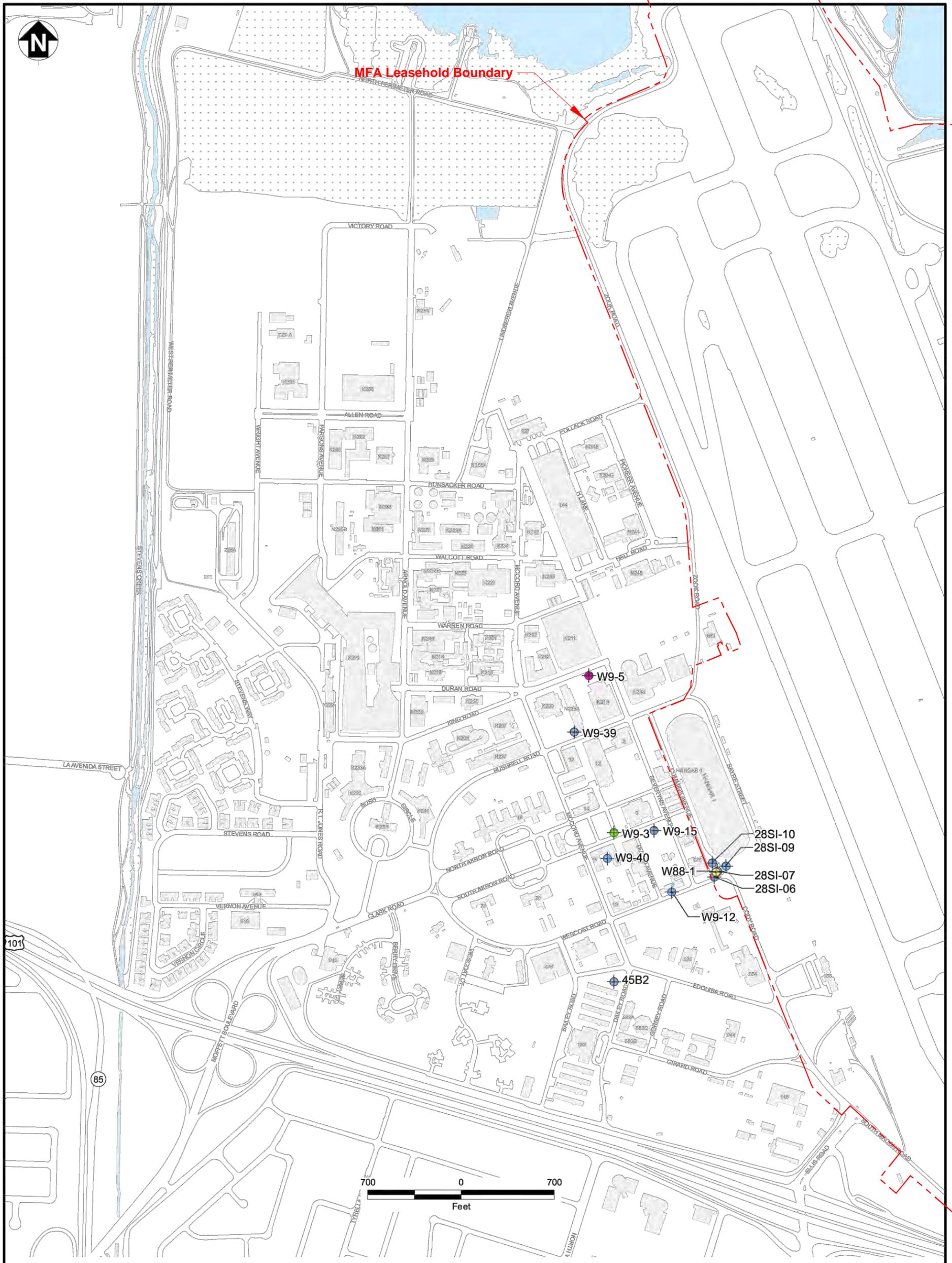
April 2014

PREPARED FOR:

U.S. Department of the Navy
Base Realignment and Closure
Program Management Office West
1455 Frazee Road, Suite 900
San Diego, CA 92108-4310

PREPARED BY:

SES-TECH Remediation Services
3838 Camino Del Rio North, Suite 240
San Diego, CA 92108



- | | | | |
|--|----------------------------------|--|-------------------------|
| | NAVY MONITORING WELL, B AQUIFER | | ROAD |
| | NAVY MONITORING WELL, B2 AQUIFER | | FACILITY INFRASTRUCTURE |
| | NAVY MONITORING WELL, B3 AQUIFER | | WATER |
| | NAVY MONITORING WELL, C AQUIFER | | WETLAND |

Notes:
 IR - Installation Restoration
 MEW - Middlefield-Ellis-Whisman
 NAS - Naval Air Station
 NASA - National Aeronautics and Space Administration

SES-TECH

BASE REALIGNMENT AND CLOSURE
 PROGRAM MANAGEMENT OFFICE WEST
 SAN DIEGO, CALIFORNIA

2013 ANNUAL GROUNDWATER REPORT
 FOR IR SITES 26 & 28

FIGURE 2-3
MONITORING WELL LOCATION MAP,
IR SITE 28, B AND C AQUIFER

FORMER NAS MOFFETT FIELD, MOFFETT FIELD, CALIFORNIA

Prepared for

Schlumberger Technology Corporation
105 Industrial Boulevard
Sugar Land, Texas 77478

2013 ANNUAL PROGRESS REPORT
VOLUME 2: APPENDICES
MIDDLEFIELD-ELLIS-WHISMAN
REGIONAL GROUNDWATER
REMEDIATION PROGRAM
MOUNTAIN VIEW, CALIFORNIA

Prepared by

Geosyntec 
consultants

engineers | scientists | innovators

1111 Broadway, 6th Floor
Oakland, California 94607

Project Number WR1128B

15 April 2014

APPENDIX B

Groundwater Elevations and Contour Maps –
All MEW Wells, March and September 2013

Table B-1
21 March 2013 Groundwater Elevation Data
 MEW Regional Groundwater Remediation Program
 Mountain View, California

Well Name	Owner	TOC Elevation (ft msl)	Depth to Water (feet BTOC)	Groundwater Elevation (ft msl)	Measured By
A/A1 Zone					
63A	Fairchild (North of 101)	33.76	11.63	22.13	Weiss
64A	Fairchild (North of 101)	32.59	8.48	24.11	Weiss
65A	Fairchild (North of 101)	28.04	8.50	19.54	Weiss
66A	Fairchild (North of 101)	22.07	6.38	15.69	Weiss
72A	Fairchild (North of 101)	32.82	7.03	25.79	Weiss
73A	Fairchild (North of 101)	21.62	4.62	17.00	Weiss
74A	Fairchild (North of 101)	27.96	7.92	20.04	Weiss
75A	Fairchild (North of 101)	30.43	6.94	23.49	Weiss
81A	Fairchild (North of 101)	21.89	5.20	16.69	Weiss
82A	Fairchild (North of 101)	27.69	9.65	18.04	Weiss
85A	Fairchild (North of 101)	27.86	9.79	18.07	Weiss
86A	Fairchild (North of 101)	21.68	4.63	17.05	Weiss
88A	Fairchild (North of 101)	20.26	5.94	14.32	Weiss
89A	Fairchild (North of 101)	17.20	6.73	10.47	Weiss
90A	Fairchild (North of 101)	15.12	9.39	5.73	Weiss
91A	Fairchild (North of 101)	9.30	7.89	1.41	Weiss
92A	Fairchild (North of 101)	6.67	5.55	1.12	Weiss
93A	Fairchild (North of 101)	5.90	6.78	-0.88	Weiss
94A	Fairchild (North of 101)	6.50	6.93	-0.43	Weiss
95A	Fairchild (North of 101)	6.65	6.55	0.10	Weiss
96A	Fairchild (North of 101)	11.10	8.39	2.71	Weiss
97A	Fairchild (North of 101)	25.07	5.09	19.98	Weiss
163A	Fairchild (North of 101)	32.86	10.90	21.96	Weiss
164A	Fairchild (North of 101)	24.69	6.66	18.03	Weiss
165A	Fairchild (North of 101)	24.37	6.13	18.24	Weiss
166A	Fairchild (North of 101)	25.17	8.92	16.25	Weiss
167A	Fairchild (North of 101)	31.07	11.30	19.77	Weiss
168A	Fairchild (North of 101)	30.49	10.94	19.55	Weiss
169A	Fairchild (North of 101)	29.08	6.99	22.09	Weiss
170A	Fairchild (North of 101)	29.05	7.58	21.47	Weiss
171A	Fairchild (North of 101)	25.95	8.06	17.89	Weiss
172A	Fairchild (North of 101)	24.61	6.87	17.74	Weiss
1A	Fairchild (South of 101)	58.75	15.23	43.52	Weiss
4A	Fairchild (South of 101)	54.69	14.47	40.22	Weiss
6A	Fairchild (South of 101)	54.74	14.36	40.38	Weiss
9A	Fairchild (South of 101)	55.82	16.27	39.55	Weiss
12A	Fairchild (South of 101)	55.11	16.17	38.94	Weiss
15A	Fairchild (South of 101)	54.06	15.34	38.72	Weiss
16A	Fairchild (South of 101)	53.30	13.75	39.55	Weiss
17A	Fairchild (South of 101)	53.40	14.43	38.97	Weiss
20A	Fairchild (South of 101)	51.37	10.51	40.86	Weiss
21A	Fairchild (South of 101)	53.76	17.45	36.31	Weiss
22A	Fairchild (South of 101)	52.87	18.57	34.30	Weiss
23A	Fairchild (South of 101)	50.56	16.20	34.36	Weiss
24A	Fairchild (South of 101)	48.42	14.97	33.45	Weiss
26A	Fairchild (South of 101)	47.20	10.05	37.15	Weiss

Table B-1
21 March 2013 Groundwater Elevation Data
 MEW Regional Groundwater Remediation Program
 Mountain View, California

Well Name	Owner	TOC Elevation (ft msl)	Depth to Water (feet BTOC)	Groundwater Elevation (ft msl)	Measured By
A/A1 Zone					
28A	Fairchild (South of 101)	47.09	14.35	32.74	Weiss
29A	Fairchild (South of 101)	46.08	11.49	34.59	Weiss
31A	Fairchild (South of 101)	43.87	13.00	30.87	Weiss
32A	Fairchild (South of 101)	45.06	11.30	33.76	Weiss
33A	Fairchild (South of 101)	43.74	10.37	33.37	Weiss
35A	Fairchild (South of 101)	42.67	15.82	26.85	Weiss
36A	Fairchild (South of 101)	42.32	15.28	27.04	Weiss
37A	Fairchild (South of 101)	43.21	16.15	27.06	Weiss
39A	Fairchild (South of 101)	42.77	12.09	30.68	Weiss
40A	Fairchild (South of 101)	43.44	12.56	30.88	Weiss
41A	Fairchild (South of 101)	42.40	12.26	30.14	Weiss
42A	Fairchild (South of 101)	42.97	12.74	30.23	Weiss
43A	Fairchild (South of 101)	43.38	12.72	30.66	Weiss
44A	Fairchild (South of 101)	43.13	12.65	30.48	Weiss
45A	Fairchild (South of 101)	43.70	11.24	32.46	Weiss
46A	Fairchild (South of 101)	42.10	11.10	31.00	Weiss
50A	Fairchild (South of 101)	41.39	10.86	30.53	Weiss
51A	Fairchild (South of 101)	44.22	16.91	27.31	Weiss
54A	Fairchild (South of 101)	40.17	11.80	28.37	Weiss
56A	Fairchild (South of 101)	39.09	9.43	29.66	Weiss
57A	Fairchild (South of 101)	39.21	12.44	26.77	Weiss
58A	Fairchild (South of 101)	38.28	10.79	27.49	Weiss
59A	Fairchild (South of 101)	39.56	13.37	26.19	Weiss
61A	Fairchild (South of 101)	37.18	10.85	26.33	Weiss
62A	Fairchild (South of 101)	37.88	11.31	26.57	Weiss
67A	Fairchild (South of 101)	39.77	15.15	24.62	Weiss
68A	Fairchild (South of 101)	43.26	13.57	29.69	Weiss
69A	Fairchild (South of 101)	42.48	12.36	30.12	Weiss
70A	Fairchild (South of 101)	55.10	15.53	39.57	Weiss
71A	Fairchild (South of 101)	55.15	18.99	36.16	Weiss
76A	Fairchild (South of 101)	40.08	17.06	23.02	Weiss
77A	Fairchild (South of 101)	52.59	12.61	39.98	Weiss
78A	Fairchild (South of 101)	46.44	11.68	34.76	Weiss
79A	Fairchild (South of 101)	36.61	9.76	26.85	Weiss
80A	Fairchild (South of 101)	38.09	11.11	26.98	Weiss
83A	Fairchild (South of 101)	46.60	13.85	32.75	Weiss
84A	Fairchild (South of 101)	43.38	10.38	33.00	Weiss
99A	Fairchild (South of 101)	48.33	14.68	33.65	Weiss
100A	Fairchild (South of 101)	48.02	14.19	33.83	Weiss
101A	Fairchild (South of 101)	55.14	14.04	41.10	Weiss
105A	Fairchild (South of 101)	49.08	16.26	32.82	Weiss
106A	Fairchild (South of 101)	49.27	16.35	32.92	Weiss
107A	Fairchild (South of 101)	55.08	14.95	40.13	Weiss
108A	Fairchild (South of 101)	41.20	11.14	30.06	Weiss
109A	Fairchild (South of 101)	41.61	11.06	30.55	Weiss
110A	Fairchild (South of 101)	41.18	10.15	31.03	Weiss
115A	Fairchild (South of 101)	53.48	16.25	37.23	Weiss

Table B-1
21 March 2013 Groundwater Elevation Data
 MEW Regional Groundwater Remediation Program
 Mountain View, California

Well Name	Owner	TOC Elevation (ft msl)	Depth to Water (feet BTOC)	Groundwater Elevation (ft msl)	Measured By
A/A1 Zone					
116A	Fairchild (South of 101)	40.97	11.06	29.91	Weiss
118A	Fairchild (South of 101)	39.78	16.00	23.78	Weiss
119A	Fairchild (South of 101)	45.95	11.80	34.15	Weiss
121A	Fairchild (South of 101)	41.82	15.21	26.61	Weiss
122A	Fairchild (South of 101)	44.23	17.27	26.96	Weiss
123A	Fairchild (South of 101)	44.37	12.56	31.81	Weiss
124A	Fairchild (South of 101)	38.86	14.29	24.57	Weiss
125A	Fairchild (South of 101)	42.17	9.55	32.62	Weiss
126A	Fairchild (South of 101)	42.85	12.77	30.08	Weiss
127A	Fairchild (South of 101)	43.81	9.91	33.90	Weiss
128A	Fairchild (South of 101)	43.38	9.76	33.62	Weiss
129A	Fairchild (South of 101)	41.47	12.79	28.68	Weiss
130A	Fairchild (South of 101)	41.60	14.16	27.44	Weiss
133A	Fairchild (South of 101)	43.75	12.79	30.96	Weiss
134A	Fairchild (South of 101)	53.44	15.15	38.29	Weiss
136A	Fairchild (South of 101)	42.43	10.47	31.96	Weiss
137A	Fairchild (South of 101)	43.68	16.76	26.92	Weiss
138A	Fairchild (South of 101)	43.60	12.39	31.21	Weiss
139A	Fairchild (South of 101)	53.21	14.81	38.40	Weiss
140A	Fairchild (South of 101)	56.99	13.19	43.80	Weiss
141A	Fairchild (South of 101)	53.25	9.58	43.67	Weiss
142A	Fairchild (South of 101)	57.30	12.72	44.58	Weiss
143A	Fairchild (South of 101)	55.72	15.76	39.96	Weiss
144A	Fairchild (South of 101)	59.41	16.31	43.10	Weiss
145A	Fairchild (South of 101)	47.04	12.26	34.78	Weiss
146A	Fairchild (South of 101)	48.93	11.47	37.46	Weiss
147A	Fairchild (South of 101)	39.13	10.33	28.80	Weiss
148A	Fairchild (South of 101)	53.92	15.11	38.81	Weiss
149A	Fairchild (South of 101)	51.90	17.64	34.26	Weiss
151A	Fairchild (South of 101)	40.02	11.92	28.10	Weiss
152A	Fairchild (South of 101)	39.53	11.80	27.73	Weiss
153A	Fairchild (South of 101)	45.72	11.20	34.52	Weiss
154A	Fairchild (South of 101)	53.90	19.32	34.58	Weiss
155A	Fairchild (South of 101)	54.17	15.78	38.39	Weiss
156A	Fairchild (South of 101)	40.22	18.39	21.83	Weiss
157A	Fairchild (South of 101)	40.50	16.53	23.97	Weiss
158A	Fairchild (South of 101)	48.09	10.31	37.78	Weiss
159A	Fairchild (South of 101)	54.62	16.07	38.55	Weiss
160A	Fairchild (South of 101)	53.89	19.48	34.41	Weiss
161A	Fairchild (South of 101)	56.15	16.36	39.79	Weiss
162A	Fairchild (South of 101)	36.47	9.50	26.97	Weiss
173A	Fairchild (South of 101)	50.87	14.26	36.61	Weiss
174A	Fairchild (South of 101)	53.70	15.35	38.35	Weiss
175A	Fairchild (South of 101)	53.86	19.10	34.76	Weiss
AE/RW-9-1	Fairchild (South of 101)	43.15	16.81	26.34	Weiss
AE/RW-9-2	Fairchild (South of 101)	43.85	16.86	26.99	Weiss
RW-1A	Fairchild (South of 101)	53.71	25.65	28.06	Weiss

Table B-1
21 March 2013 Groundwater Elevation Data
 MEW Regional Groundwater Remediation Program
 Mountain View, California

Well Name	Owner	TOC Elevation (ft msl)	Depth to Water (feet BTOC)	Groundwater Elevation (ft msl)	Measured By
A/A1 Zone					
RW-2A	Fairchild (South of 101)	49.42	19.10	30.32	Weiss
RW-3A	Fairchild (South of 101)	43.34	10.15	33.19	Weiss
RW-4A	Fairchild (South of 101)	42.66	15.12	27.54	Weiss
RW-5A	Fairchild (South of 101)	36.86	12.02	24.84	Weiss
RW-7A	Fairchild (South of 101)	37.18	17.71	19.47	Weiss
RW-11A	Fairchild (South of 101)	54.87	16.36	38.51	Weiss
RW-12A	Fairchild (South of 101)	53.96	15.11	38.85	Weiss
RW-16A	Fairchild (South of 101)	43.89	15.45	28.44	Weiss
RW-18A	Fairchild (South of 101)	37.53	12.66	24.87	Weiss
RW-20A	Fairchild (South of 101)	43.57	20.41	23.16	Weiss
RW-21A	Fairchild (South of 101)	43.16	17.62	25.54	Weiss
RW-23A	Fairchild (South of 101)	52.75	20.45	32.30	Weiss
RW-24A	Fairchild (South of 101)	50.15	17.16	32.99	Weiss
RW-25A	Fairchild (South of 101)	38.38	11.43	26.95	Weiss
RW-26A	Fairchild (South of 101)	53.51	13.36	40.15	Weiss
RW-27A	Fairchild (South of 101)	38.41	20.55	17.86	Weiss
RW-28A	Fairchild (South of 101)	42.33	15.32	27.01	Weiss
RW-29A	Fairchild (South of 101)	48.18	28.21	19.97	Weiss
IE6A	Intel (South of 101)	63.83	17.68	46.15	Intel/Weiss
IE7A	Intel (South of 101)	63.95	17.79	46.16	Intel/Weiss
IE9A	Intel (South of 101)	61.11	15.98	45.13	Intel/Weiss
IE10A	Intel (South of 101)	59.99	14.84	45.15	Intel/Weiss
IE14A	Intel (South of 101)	63.28	17.06	46.22	Intel/Weiss
IE15DB1	Intel (South of 101)	60.94	15.57	45.37	Intel/Weiss
IE19A	Intel (South of 101)	63.59	17.56	46.03	Intel/Weiss
IE23A	Intel (South of 101)	72.01	25.14	46.87	Intel/Weiss
I19A	Intel (South of 101)	71.28	24.65	46.63	Intel/Weiss
I1W1A	Intel (South of 101)	60.48	15.23	45.25	Intel/Weiss
IM1A	Intel (South of 101)	NA	11.01	NA	Intel/Weiss
IM4A	Intel (South of 101)	59.93	15.77	44.16	Intel/Weiss
IM5A	Intel (South of 101)	60.17	15.68	44.49	Intel/Weiss
IM6A	Intel (South of 101)	58.59	14.11	44.48	Intel/Weiss
IM7A	Intel (South of 101)	58.52	12.58	45.94	Intel/Weiss
IM8A	Intel (South of 101)	64.30	18.04	46.26	Intel/Weiss
IM9A	Intel (South of 101)	64.66	19.27	45.39	Intel/Weiss
IM18A	Intel (South of 101)	61.39	15.53	45.86	Intel/Weiss
IM19A	Intel (South of 101)	63.55	17.43	46.12	Intel/Weiss
IOW1A	Intel (South of 101)	59.83	14.71	45.12	Intel/Weiss
IOW3A	Intel (South of 101)	58.74	14.52	44.22	Intel/Weiss
IOW4A	Intel (South of 101)	59.83	15.16	44.67	Intel/Weiss
PW-1	Intel (South of 101)	63.04	16.61	46.43	Intel/Weiss
PW-2	Intel (South of 101)	61.48	15.99	45.49	Intel/Weiss
PW-3	Intel (South of 101)	59.02	13.85	45.17	Intel/Weiss
W-1A	Intel (South of 101)	58.96	13.55	45.41	Intel/Weiss
REG-2A	MEW RGRP (North of 101)	32.33	12.18	20.15	Weiss
REG-3A	MEW RGRP (North of 101)	24.26	14.10	10.16	Weiss

Table B-1
21 March 2013 Groundwater Elevation Data
 MEW Regional Groundwater Remediation Program
 Mountain View, California

Well Name	Owner	TOC Elevation (ft msl)	Depth to Water (feet BTOC)	Groundwater Elevation (ft msl)	Measured By
A/A1 Zone					
REG-4A	MEW RGRP (North of 101)	25.22	18.28	6.94	Weiss
REG-5A	MEW RGRP (North of 101)	29.40	15.24	14.16	Weiss
REG-6A	MEW RGRP (North of 101)	13.53	14.22	-0.69	Weiss
REG-7A	MEW RGRP (North of 101)	17.11	15.93	1.18	Weiss
REG-8A	MEW RGRP (North of 101)	28.72	15.41	13.31	Weiss
REG-9A	MEW RGRP (North of 101)	24.18	10.58	13.60	Weiss
REG-1A	MEW RGRP (South of 101)	35.60	9.95	25.65	Weiss
REG-10A	MEW RGRP (South of 101)	34.83	35.60	-0.77	Weiss
REG-11A	MEW RGRP (South of 101)	35.15	14.21	20.94	Weiss
REG-12A	MEW RGRP (South of 101)	38.04	11.57	26.47	Weiss
REG-MW-1A	MEW RGRP (South of 101)	41.00	11.95	29.05	Weiss
REG-MW-2A	MEW RGRP (South of 101)	38.11	10.76	27.35	Weiss
RW-9A	MEW RGRP (South of 101)	37.83	17.90	19.93	Weiss
10H01A	NASA (North of 101)	5.16	6.78	-1.62	NASA
10H02A	NASA (North of 101)	2.26	3.80	-1.54	NASA
10J04A	NASA (North of 101)	3.89	4.07	-0.18	NASA
10J05A	NASA (North of 101)	6.34	5.90	0.44	NASA
10J09A	NASA (North of 101)	3.70	5.10	-1.40	NASA
10Q08A	NASA (North of 101)	6.54	4.28	2.26	NASA
10R09A	NASA (North of 101)	8.78	7.23	1.55	NASA
10R10A	NASA (North of 101)	9.15	6.77	2.38	NASA
10R11A	NASA (North of 101)	9.25	7.68	1.57	NASA
11E02A	NASA (North of 101)	4.76	6.68	-1.92	NASA
11M02A	NASA (North of 101)	4.27	4.75	-0.48	NASA
11M03A	NASA (North of 101)	6.51	7.55	-1.04	NASA
11M07A	NASA (North of 101)	5.86	6.08	-0.22	NASA
11M14A	NASA (North of 101)	8.26	8.68	-0.42	NASA
11M16A1	NASA (North of 101)	8.79	9.50	-0.71	NASA
11M17A	NASA (North of 101)	4.16	4.58	-0.42	NASA
11M18A	NASA (North of 101)	3.72	4.26	-0.54	NASA
11M21A	NASA (North of 101)	7.10	7.23	-0.13	NASA
11N21A	NASA (North of 101)	6.14	6.03	0.11	NASA
11N22A	NASA (North of 101)	10.75	10.07	0.68	NASA
11N27A	NASA (North of 101)	12.25	10.57	1.68	NASA
14C06A	NASA (North of 101)	15.02	9.95	5.07	NASA
14C15A	NASA (North of 101)	13.39	7.25	6.14	NASA
14C33A	NASA (North of 101)	13.55	8.59	4.96	NASA
14C40A	NASA (North of 101)	11.49	7.31	4.18	NASA
14C60A	NASA (North of 101)	10.27	7.71	2.56	NASA
14D02A	NASA (North of 101)	10.15	6.09	4.06	NASA
14D05A	NASA (North of 101)	14.68	6.02	8.66	NASA
14D09A	NASA (North of 101)	15.81	8.64	7.17	NASA
14D12A	NASA (North of 101)	14.78	8.52	6.26	NASA
14D13A	NASA (North of 101)	13.19	6.29	6.90	NASA
14D24A	NASA (North of 101)	8.29	11.90	-3.61	NASA
14D25A	NASA (North of 101)	8.30	5.58	2.72	NASA

Table B-1
21 March 2013 Groundwater Elevation Data
 MEW Regional Groundwater Remediation Program
 Mountain View, California

Well Name	Owner	TOC Elevation (ft msl)	Depth to Water (feet BTOC)	Groundwater Elevation (ft msl)	Measured By
A/A1 Zone					
14D26A	NASA (North of 101)	8.35	15.28	-6.93	NASA
14D29A	NASA (North of 101)	13.93	8.03	5.90	NASA
14D33A	NASA (North of 101)	10.00	6.44	3.56	NASA
14D35A	NASA (North of 101)	9.29	5.99	3.30	NASA
14D36A	NASA (North of 101)	12.05	6.94	5.11	NASA
14D37A	NASA (North of 101)	8.19	5.28	2.91	NASA
14D39A	NASA (North of 101)	12.51	8.10	4.41	NASA
14E14A	NASA (North of 101)	21.64	10.59	11.05	NASA
15A01A	NASA (North of 101)	15.36	9.79	5.57	NASA
15A02A	NASA (North of 101)	17.14	6.39	10.75	NASA
15A04A	NASA (North of 101)	14.24	7.47	6.77	NASA
15A06A	NASA (North of 101)	15.24	6.14	9.10	NASA
15A08A	NASA (North of 101)	14.31	6.68	7.63	NASA
15A16A	NASA (North of 101)	12.21	8.36	3.85	NASA
15A18A	NASA (North of 101)	12.74	7.82	4.92	NASA
15B09A	NASA (North of 101)	13.20	6.17	7.03	NASA
15B10A	NASA (North of 101)	15.30	5.46	9.84	NASA
15H05A	NASA (North of 101)	18.69	5.53	13.16	NASA
NASA-1A	NASA (North of 101)	NA	NM	NA	NASA
NASA-2A	NASA (North of 101)	NA	NM	NA	NASA
NASA-3A	NASA (North of 101)	NA	NM	NA	NASA
NASA-4A	NASA (North of 101)	NA	NM	NA	NASA
TANK 1-E	NASA (North of 101)	16.45	6.42	10.03	NASA
NEC1A	NEC (South of 101)	44.47	8.52	35.95	NEC/Raytheon
NEC1AE	NEC (South of 101)	43.90	8.65	35.25	NEC/Raytheon
NEC3A	NEC (South of 101)	43.76	7.52	36.24	NEC/Raytheon
NEC7A	NEC (South of 101)	43.80	10.17	33.63	NEC/Raytheon
NEC8A	NEC (South of 101)	42.29	9.60	32.69	NEC/Raytheon
NEC9A	NEC (South of 101)	43.14	7.88	35.26	NEC/Raytheon
NEC10A	NEC (South of 101)	39.43	7.30	32.13	NEC/Raytheon
NEC11A	NEC (South of 101)	45.97	9.67	36.30	NEC/Raytheon
NEC12A	NEC (South of 101)	44.24	9.27	34.97	NEC/Raytheon
NEC20A	NEC (South of 101)	46.62	8.69	37.93	NEC/Raytheon
NEC21A	NEC (South of 101)	44.06	8.00	36.06	NEC/Raytheon
NEC22AE	NEC (South of 101)	43.17	8.66	34.51	NEC/Raytheon
NEC23A	NEC (South of 101)	43.77	9.09	34.68	NEC/Raytheon
NEC24A	NEC (South of 101)	44.50	9.75	34.75	NEC/Raytheon
NEC25A	NEC (South of 101)	42.30	8.32	33.98	NEC/Raytheon
NEC26A	NEC (South of 101)	43.65	8.39	35.26	NEC/Raytheon
NEC27AE	NEC (South of 101)	43.73	16.20	27.53	NEC/Raytheon
NEC28AE	NEC (South of 101)	42.27	11.34	30.93	NEC/Raytheon
NEC-PZ-1A	NEC (South of 101)	42.47	9.67	32.80	NEC/Raytheon
NEC-PZ-2A	NEC (South of 101)	43.02	9.88	33.14	NEC/Raytheon
NEC-PZ-3A	NEC (South of 101)	43.16	9.27	33.89	NEC/Raytheon
R2A	Raytheon (South of 101)	57.85	18.44	39.41	NEC/Raytheon
R6A	Raytheon (South of 101)	55.64	9.20	46.44	NEC/Raytheon

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 MEW Regional Groundwater Remediation Program
 Mountain View, California

Well Name	Owner	TOC Elevation (ft msl)	Depth to Water (feet BTOC)	Groundwater Elevation (ft msl)	Measured By
A/A1 Zone					
R10A	Raytheon (South of 101)	51.83	14.92	36.91	NEC/Raytheon
R14A	Raytheon (South of 101)	55.41	9.82	45.59	NEC/Raytheon
R15A	Raytheon (South of 101)	56.94	11.52	45.42	NEC/Raytheon
R20A	Raytheon (South of 101)	57.00	11.00	46.00	NEC/Raytheon
R21A	Raytheon (South of 101)	64.15	17.45	46.70	NEC/Raytheon
R22A	Raytheon (South of 101)	73.00	25.96	47.04	NEC/Raytheon
R24A	Raytheon (South of 101)	70.05	22.55	47.50	NEC/Raytheon
R25A	Raytheon (South of 101)	59.20	14.78	44.42	NEC/Raytheon
R27A	Raytheon (South of 101)	47.70	14.77	32.93	NEC/Raytheon
R29A	Raytheon (South of 101)	36.00	7.29	28.71	NEC/Raytheon
R31A	Raytheon (South of 101)	34.00	9.28	24.72	NEC/Raytheon
R32A	Raytheon (South of 101)	35.65	8.23	27.42	NEC/Raytheon
R36A	Raytheon (South of 101)	53.99	15.91	38.08	NEC/Raytheon
R41A	Raytheon (South of 101)	51.00	13.16	37.84	NEC/Raytheon
R43A	Raytheon (South of 101)	46.00	6.89	39.11	NEC/Raytheon
R44A	Raytheon (South of 101)	57.66	12.04	45.62	NEC/Raytheon
R45A	Raytheon (South of 101)	62.00	15.30	46.70	NEC/Raytheon
R46A	Raytheon (South of 101)	73.00	25.14	47.86	NEC/Raytheon
R48A	Raytheon (South of 101)	66.86	19.87	46.99	NEC/Raytheon
R50A	Raytheon (South of 101)	60.43	15.28	45.15	NEC/Raytheon
R51A	Raytheon (South of 101)	60.00	13.85	46.15	NEC/Raytheon
R52A	Raytheon (South of 101)	64.00	18.11	45.89	NEC/Raytheon
R53A	Raytheon (South of 101)	58.60	NM	NM	NEC/Raytheon
R54A	Raytheon (South of 101)	57.18	14.00	43.18	NEC/Raytheon
R55A	Raytheon (South of 101)	47.76	14.90	32.86	NEC/Raytheon
R57A	Raytheon (South of 101)	53.71	11.07	42.64	NEC/Raytheon
R58A	Raytheon (South of 101)	53.77	12.48	41.29	NEC/Raytheon
R59A	Raytheon (South of 101)	54.69	10.23	44.46	NEC/Raytheon
R60A	Raytheon (South of 101)	56.44	15.13	41.31	NEC/Raytheon
R62A	Raytheon (South of 101)	47.59	NM	NM	NEC/Raytheon
R63A	Raytheon (South of 101)	58.33	10.21	48.12	NEC/Raytheon
R67A	Raytheon (South of 101)	57.58	16.11	41.47	NEC/Raytheon
R68A	Raytheon (South of 101)	57.44	16.92	40.52	NEC/Raytheon
R69A	Raytheon (South of 101)	56.22	16.80	39.42	NEC/Raytheon
R70A	Raytheon (South of 101)	57.33	17.54	39.79	NEC/Raytheon
R71A	Raytheon (South of 101)	54.53	14.82	39.71	NEC/Raytheon
R72A	Raytheon (South of 101)	56.47	17.91	38.56	NEC/Raytheon
R73A	Raytheon (South of 101)	59.19	18.49	40.70	NEC/Raytheon
R74A	Raytheon (South of 101)	57.84	17.22	40.62	NEC/Raytheon
RAY-1A	Raytheon (South of 101)	45.21	16.05	29.16	NEC/Raytheon
RE5A	Raytheon (South of 101)	56.85	17.21	39.64	NEC/Raytheon
RE7A	Raytheon (South of 101)	48.61	11.60	37.01	NEC/Raytheon
RE8A	Raytheon (South of 101)	51.66	13.77	37.89	NEC/Raytheon
RE9A	Raytheon (South of 101)	58.73	17.80	40.93	NEC/Raytheon
RE10A	Raytheon (South of 101)	58.65	17.99	40.66	NEC/Raytheon
RE11A	Raytheon (South of 101)	48.75	12.95	35.80	NEC/Raytheon
RE12A	Raytheon (South of 101)	48.64	10.97	37.67	NEC/Raytheon

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Well Name	Owner	TOC Elevation (ft msl)	Depth to Water (feet BTOC)	Groundwater Elevation (ft msl)	Measured By
A/A1 Zone					
RE21A	Raytheon (South of 101)	49.88	12.73	37.15	NEC/Raytheon
RE22A	Raytheon (South of 101)	49.81	14.13	35.68	NEC/Raytheon
RE23A	Raytheon (South of 101)	53.66	14.25	39.41	NEC/Raytheon
RE24A	Raytheon (South of 101)	55.24	16.18	39.06	NEC/Raytheon
RE25A	Raytheon (South of 101)	57.00	17.46	39.54	NEC/Raytheon
RH1A	Raytheon (South of 101)	62.39	NM	NM	NEC/Raytheon
EX1	Siltec (South of 101)	41.61	17.29	24.32	Vishay/GeoMatrix
EX2	Siltec (South of 101)	41.50	15.46	26.04	Vishay/GeoMatrix
EX3	Siltec (South of 101)	41.47	15.37	26.10	Vishay/GeoMatrix
EX4	Siltec (South of 101)	41.07	14.77	26.30	Vishay/GeoMatrix
GSF1A	Siltec (South of 101)	39.57	10.71	28.86	Vishay/GeoMatrix
SIL1A	Siltec (South of 101)	44.01	12.25	31.76	Vishay/GeoMatrix
SIL2A	Siltec (South of 101)	43.42	11.76	31.66	Vishay/GeoMatrix
SIL4A	Siltec (South of 101)	44.15	11.93	32.22	Vishay/GeoMatrix
SIL5A	Siltec (South of 101)	45.15	11.30	33.85	Vishay/GeoMatrix
SIL8A	Siltec (South of 101)	44.41	12.37	32.04	Vishay/GeoMatrix
SIL9A	Siltec (South of 101)	41.21	10.65	30.56	Vishay/GeoMatrix
SIL10A	Siltec (South of 101)	41.99	10.85	31.14	Vishay/GeoMatrix
SIL11A	Siltec (South of 101)	42.66	11.12	31.54	Vishay/GeoMatrix
SIL12A	Siltec (South of 101)	43.25	11.68	31.57	Vishay/GeoMatrix
SIL13A	Siltec (South of 101)	43.50	12.50	31.00	Vishay/GeoMatrix
SIL14A	Siltec (South of 101)	43.07	12.15	30.92	Vishay/GeoMatrix
SIL15A	Siltec (South of 101)	42.17	11.03	31.14	Vishay/GeoMatrix
SIL16A	Siltec (South of 101)	43.51	11.96	31.55	Vishay/GeoMatrix
SIL17A	Siltec (South of 101)	43.43	11.95	31.48	Vishay/GeoMatrix
C-2	Sobrato (South of 101)	63.05	16.92	46.38	SMI
C-3	Sobrato (South of 101)	58.14	12.16	45.98	SMI
EW-1	Sobrato (South of 101)	57.39	22.49	34.90	SMI
EW-2	Sobrato (South of 101)	60.04	14.61	45.43	SMI
EW-3	Sobrato (South of 101)	59.55	13.72	45.83	SMI
EW-4	Sobrato (South of 101)	60.83	14.63	46.20	SMI
ME1A	Sobrato (South of 101)	58.00	12.25	45.75	NEC/Raytheon
SO-1	Sobrato (South of 101)	63.35	17.15	46.20	SMI
SO-2	Sobrato (South of 101)	60.96	14.79	46.17	SMI
SO-4	Sobrato (South of 101)	58.40	12.34	46.06	SMI
SOPZ-1	Sobrato (South of 101)	62.30	15.99	46.31	SMI
SOPZ-2	Sobrato (South of 101)	60.66	14.43	46.23	SMI
SOPZ-3	Sobrato (South of 101)	61.78	15.71	46.07	SMI
EA1-1	U.S. Navy (North of 101)	15.60	14.73	0.87	Navy
EA1-2	U.S. Navy (North of 101)	15.26	4.49	10.77	Navy
EA1-3	U.S. Navy (North of 101)	14.61	7.54	7.07	Navy
EA1-4	U.S. Navy (North of 101)	10.35	8.02	2.33	Navy
EA1-5	U.S. Navy (North of 101)	13.09	7.84	5.25	Navy
EA1-6	U.S. Navy (North of 101)	12.23	16.21	-3.98	Navy
ERM-1	U.S. Navy (North of 101)	29.61	6.13	23.48	Navy
ERM-2	U.S. Navy (North of 101)	28.46	5.21	23.25	Navy

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Well Name	Owner	TOC Elevation (ft msl)	Depth to Water (feet BTOC)	Groundwater Elevation (ft msl)	Measured By
A/A1 Zone					
ERM-3	U.S. Navy (North of 101)	29.34	4.95	24.39	Navy
PIC-1	U.S. Navy (North of 101)	18.09	6.40	11.69	Navy
PIC-2	U.S. Navy (North of 101)	17.64	6.55	11.09	Navy
PIC-3	U.S. Navy (North of 101)	17.56	6.50	11.06	Navy
PIC-4	U.S. Navy (North of 101)	17.83	6.58	11.25	Navy
PIC-5	U.S. Navy (North of 101)	18.10	6.69	11.41	Navy
PIC-6	U.S. Navy (North of 101)	17.81	5.65	12.16	Navy
PIC-7	U.S. Navy (North of 101)	17.71	5.47	12.24	Navy
PIC-8	U.S. Navy (North of 101)	18.08	5.67	12.41	Navy
PIC-9	U.S. Navy (North of 101)	18.51	6.03	12.48	Navy
PIC-10	U.S. Navy (North of 101)	18.77	6.12	12.65	Navy
PIC-11	U.S. Navy (North of 101)	17.91	5.51	12.40	Navy
PIC-12	U.S. Navy (North of 101)	18.54	5.96	12.58	Navy
PIC-13	U.S. Navy (North of 101)	18.70	6.18	12.52	Navy
PIC-14	U.S. Navy (North of 101)	19.01	6.35	12.66	Navy
PIC-15	U.S. Navy (North of 101)	19.16	6.22	12.94	Navy
PIC-20	U.S. Navy (North of 101)	17.24	6.39	10.85	Navy
PIC-21	U.S. Navy (North of 101)	17.49	6.44	11.05	Navy
PIC-22	U.S. Navy (North of 101)	17.48	6.36	11.12	Navy
PIC-23	U.S. Navy (North of 101)	17.56	6.49	11.07	Navy
PIC-24	U.S. Navy (North of 101)	17.81	5.41	12.40	Navy
PIC-25	U.S. Navy (North of 101)	18.00	5.60	12.40	Navy
PIC-26	U.S. Navy (North of 101)	18.23	5.81	12.42	Navy
PIC-27	U.S. Navy (North of 101)	18.31	5.91	12.40	Navy
PIC-28	U.S. Navy (North of 101)	18.00	5.57	12.43	Navy
PIC-29	U.S. Navy (North of 101)	18.17	5.76	12.41	Navy
PIC-30	U.S. Navy (North of 101)	18.36	5.99	12.37	Navy
PIC-31	U.S. Navy (North of 101)	17.90	6.65	11.25	Navy
PIC-32	U.S. Navy (North of 101)	17.89	6.36	11.53	Navy
PZA1-1A	U.S. Navy (North of 101)	18.25	5.58	12.67	Navy
PZA1-1B	U.S. Navy (North of 101)	18.78	5.53	13.25	Navy
PZA1-1C	U.S. Navy (North of 101)	18.44	5.49	12.95	Navy
PZA1-1D	U.S. Navy (North of 101)	18.36	4.83	13.53	Navy
PZA1-1E	U.S. Navy (North of 101)	18.33	5.58	12.75	Navy
PZA1-2A	U.S. Navy (North of 101)	17.94	5.01	12.93	Navy
PZA1-2B	U.S. Navy (North of 101)	17.89	4.71	13.18	Navy
PZA1-2C	U.S. Navy (North of 101)	17.81	4.23	13.58	Navy
PZA1-2D	U.S. Navy (North of 101)	17.88	5.05	12.83	Navy
PZA1-3A	U.S. Navy (North of 101)	17.54	8.68	8.86	Navy
PZA1-3B	U.S. Navy (North of 101)	17.49	8.30	9.19	Navy
PZA1-3C	U.S. Navy (North of 101)	17.39	8.06	9.33	Navy
PZA1-3D	U.S. Navy (North of 101)	17.20	8.20	9.00	Navy
PZA1-4B	U.S. Navy (North of 101)	13.12	8.02	5.10	Navy
PZA1-4C	U.S. Navy (North of 101)	12.87	7.41	5.46	Navy
PZA1-4D	U.S. Navy (North of 101)	12.61	8.03	4.58	Navy
PZA1-5A	U.S. Navy (North of 101)	16.10	10.11	5.99	Navy
PZA1-5B	U.S. Navy (North of 101)	15.93	9.98	5.95	Navy

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Well Name	Owner	TOC Elevation (ft msl)	Depth to Water (feet BTOC)	Groundwater Elevation (ft msl)	Measured By
A/A1 Zone					
PZA1-5C	U.S. Navy (North of 101)	14.88	8.71	6.17	Navy
PZA1-5D	U.S. Navy (North of 101)	15.69	9.89	5.80	Navy
PZA1-6A	U.S. Navy (North of 101)	15.34	6.56	8.78	Navy
PZA1-6B	U.S. Navy (North of 101)	15.19	6.36	8.83	Navy
PZA1-6C	U.S. Navy (North of 101)	14.89	6.07	8.82	Navy
PZA2-1A	U.S. Navy (North of 101)	17.14	13.59	3.55	Navy
PZA2-1B	U.S. Navy (North of 101)	17.02	12.52	4.50	Navy
PZA2-1C	U.S. Navy (North of 101)	17.34	9.28	8.06	Navy
PZA2-1D	U.S. Navy (North of 101)	16.91	7.64	9.27	Navy
PZA2-2A	U.S. Navy (North of 101)	15.82	12.58	3.24	Navy
PZA2-2B	U.S. Navy (North of 101)	15.02	8.90	6.12	Navy
PZA2-2C	U.S. Navy (North of 101)	15.19	8.34	6.85	Navy
PZA2-2D	U.S. Navy (North of 101)	13.72	8.75	4.97	Navy
PZA2-4E	U.S. Navy (North of 101)	13.04	10.26	2.78	Navy
PZNX-2	U.S. Navy (North of 101)	19.21	4.41	14.80	Navy
UST85-MW02	U.S. Navy (North of 101)	19.04	5.31	13.73	Navy
W8-1	U.S. Navy (North of 101)	7.55	7.20	0.35	Navy
W8-4	U.S. Navy (North of 101)	6.24	4.80	1.44	Navy
W8-6	U.S. Navy (North of 101)	6.15	5.90	0.25	Navy
W8-8	U.S. Navy (North of 101)	5.10	5.56	-0.46	Navy
W9-1	U.S. Navy (North of 101)	17.98	8.72	9.26	Navy
W9-2	U.S. Navy (North of 101)	19.02	7.39	11.63	Navy
W9-7	U.S. Navy (North of 101)	18.05	6.27	11.78	Navy
W9-10	U.S. Navy (North of 101)	11.91	5.74	6.17	Navy
W9-16	U.S. Navy (North of 101)	22.42	5.93	16.49	Navy
W9-18	U.S. Navy (North of 101)	17.99	4.42	13.57	Navy
W9-19	U.S. Navy (North of 101)	22.20	6.72	15.48	Navy
W9-23	U.S. Navy (North of 101)	15.59	5.80	9.79	Navy
W9-24	U.S. Navy (North of 101)	13.09	7.46	5.63	Navy
W9-26	U.S. Navy (North of 101)	13.33	7.36	5.97	Navy
W9-29	U.S. Navy (North of 101)	16.54	3.00	13.54	Navy
W9-30	U.S. Navy (North of 101)	19.83	4.67	15.16	Navy
W9-31	U.S. Navy (North of 101)	16.16	7.42	8.74	Navy
W9-35	U.S. Navy (North of 101)	16.63	5.46	11.17	Navy
W9-37	U.S. Navy (North of 101)	20.46	5.10	15.36	Navy
W9-38	U.S. Navy (North of 101)	22.59	6.68	15.91	Weiss
W9-43	U.S. Navy (North of 101)	15.76	9.20	6.56	Navy
W9-44	U.S. Navy (North of 101)	20.39	6.00	14.39	Navy
W9-45	U.S. Navy (North of 101)	16.54	4.40	12.14	Navy
W9-47	U.S. Navy (North of 101)	18.13	8.13	10.00	Navy
W9SC-1	U.S. Navy (North of 101)	16.91	8.10	8.81	Navy
W9SC-2	U.S. Navy (North of 101)	16.87	8.20	8.67	Navy
W9SC-4	U.S. Navy (North of 101)	16.67	7.80	8.87	Navy
W9SC-5	U.S. Navy (North of 101)	16.49	7.70	8.79	Navy
W9SC-7	U.S. Navy (North of 101)	16.57	8.20	8.37	Navy
W9SC-11	U.S. Navy (North of 101)	18.26	8.31	9.95	Navy
W9SC-13	U.S. Navy (North of 101)	18.16	7.80	10.36	Navy

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Well Name	Owner	TOC Elevation (ft msl)	Depth to Water (feet BTOC)	Groundwater Elevation (ft msl)	Measured By
A/A1 Zone					
W9SC-14	U.S. Navy (North of 101)	18.93	4.40	14.53	Navy
W9SC-16	U.S. Navy (North of 101)	19.12	4.35	14.77	Navy
W9SC-17	U.S. Navy (North of 101)	21.14	6.61	14.53	Navy
W9SC-18	U.S. Navy (North of 101)	16.67	7.90	8.77	Navy
W9SC-21	U.S. Navy (North of 101)	22.08	5.81	16.27	Navy
W12-20	U.S. Navy (North of 101)	7.76	7.44	0.32	Navy
W12-6	U.S. Navy (North of 101)	7.08	6.24	0.84	Navy
W14-2	U.S. Navy (North of 101)	28.52	5.43	23.09	Navy
W14-3	U.S. Navy (North of 101)	30.15	6.07	24.08	Navy
W14-4	U.S. Navy (North of 101)	27.75	4.93	22.82	Navy
W14-10	U.S. Navy (North of 101)	29.58	5.43	24.15	Navy
W14-11	U.S. Navy (North of 101)	29.07	5.32	23.75	Navy
W14-12	U.S. Navy (North of 101)	29.71	6.00	23.71	Navy
W14-13	U.S. Navy (North of 101)	28.80	6.11	22.69	Navy
W20-01	U.S. Navy (North of 101)	9.81	6.25	3.56	Navy
W29-1	U.S. Navy (North of 101)	13.83	8.23	5.60	Navy
W29-2	U.S. Navy (North of 101)	16.01	8.30	7.71	Navy
W29-3	U.S. Navy (North of 101)	16.33	7.70	8.63	Navy
W29-4	U.S. Navy (North of 101)	18.29	7.51	10.78	Navy
W29-5	U.S. Navy (North of 101)	14.82	8.39	6.43	Navy
W56-1	U.S. Navy (North of 101)	17.79	7.01	10.78	Navy
W56-2	U.S. Navy (North of 101)	17.66	6.04	11.62	Navy
W58-1	U.S. Navy (North of 101)	31.03	6.25	24.78	Navy
W60-2	U.S. Navy (North of 101)	31.00	9.05	21.95	Navy
W60-1	U.S. Navy (North of 101)	30.55	9.23	21.32	Navy
W89-1	U.S. Navy (North of 101)	33.57	10.72	22.85	Navy
W89-2	U.S. Navy (North of 101)	30.98	8.34	22.64	Navy
W89-03A-R	U.S. Navy (North of 101)	33.23	5.98	27.25	Weiss
W89-04A-R	U.S. Navy (North of 101)	33.25	4.99	28.26	Weiss
W89-5	U.S. Navy (North of 101)	25.61	6.68	18.93	Navy
W89-6	U.S. Navy (North of 101)	24.40	5.00	19.40	Navy
W89-7	U.S. Navy (North of 101)	24.15	6.10	18.05	Navy
W89-8	U.S. Navy (North of 101)	21.77	7.50	14.27	Navy
W89-9	U.S. Navy (North of 101)	21.78	9.52	12.26	Navy
W89-10	U.S. Navy (North of 101)	15.99	4.63	11.36	Navy
WIC-1	U.S. Navy (North of 101)	18.20	5.83	12.37	Navy
WIC-3	U.S. Navy (North of 101)	17.94	6.61	11.33	Navy
WIC-5	U.S. Navy (North of 101)	18.07	5.65	12.42	Navy
WIC-6	U.S. Navy (North of 101)	18.04	5.46	12.58	Navy
WIC-7	U.S. Navy (North of 101)	17.87	5.50	12.37	Navy
WIC-8	U.S. Navy (North of 101)	18.07	5.78	12.29	Navy
WIC-9	U.S. Navy (North of 101)	17.89	6.57	11.32	Navy
WIC-10	U.S. Navy (North of 101)	17.94	6.80	11.14	Navy
WIC-11	U.S. Navy (North of 101)	17.84	6.69	11.15	Navy
WIC-12	U.S. Navy (North of 101)	17.95	6.80	11.15	Navy
WNB-1	U.S. Navy (North of 101)	4.79	6.47	-1.68	Navy
WNB-7	U.S. Navy (North of 101)	3.22	4.40	-1.18	Navy

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Well Name	Owner	TOC Elevation (ft msl)	Depth to Water (feet BTOC)	Groundwater Elevation (ft msl)	Measured By
A/A1 Zone					
WNB-8	U.S. Navy (North of 101)	4.14	5.50	-1.36	Navy
WNB-26	U.S. Navy (North of 101)	2.20	2.86	-0.66	Navy
WNX-1	U.S. Navy (North of 101)	18.85	4.97	13.88	Navy
WNX-2	U.S. Navy (North of 101)	18.80	4.97	13.83	Navy
WNX-3	U.S. Navy (North of 101)	18.64	4.75	13.89	Navy
WNX-4	U.S. Navy (North of 101)	19.33	4.73	14.60	Navy
WSI-1	U.S. Navy (North of 101)	32.62	6.95	25.67	Navy
WSI-2	U.S. Navy (North of 101)	31.12	7.21	23.91	Navy
WSI-3	U.S. Navy (North of 101)	29.67	9.14	20.53	Navy
WSI-4	U.S. Navy (North of 101)	7.09	7.03	0.06	Navy
WT14-1	U.S. Navy (North of 101)	24.80	5.37	19.43	Navy
WT41A-1	U.S. Navy (North of 101)	23.38	6.68	16.70	Navy
WT87-1	U.S. Navy (North of 101)	21.19	6.90	14.29	Navy
WU4-1	U.S. Navy (North of 101)	34.97	12.60	22.37	Navy
WU4-3	U.S. Navy (North of 101)	25.21	7.71	17.50	Navy
WU4-8	U.S. Navy (North of 101)	15.91	10.11	5.80	Navy
WU4-10	U.S. Navy (North of 101)	16.77	6.08	10.69	Navy
WU4-14	U.S. Navy (North of 101)	12.80	8.15	4.65	Navy
WU4-16	U.S. Navy (North of 101)	13.89	5.25	8.64	Navy
WU4-17	U.S. Navy (North of 101)	15.62	6.85	8.77	Navy
WU4-18	U.S. Navy (North of 101)	8.17	5.94	2.23	Navy
WU4-21	U.S. Navy (North of 101)	14.86	8.31	6.55	Navy
WU4-24	U.S. Navy (North of 101)	16.11	7.44	8.67	Navy
WU4-25	U.S. Navy (North of 101)	16.68	5.89	10.79	Navy
WWR-1	U.S. Navy (North of 101)	17.98	5.04	12.94	Navy
WWR-2	U.S. Navy (North of 101)	20.38	4.42	15.96	Navy
WWR-3	U.S. Navy (North of 101)	21.57	4.38	17.19	Navy
A2/B1 Zone					
4B1	Fairchild (North of 101)	27.45	8.31	19.14	Weiss
46B1	Fairchild (North of 101)	22.13	5.64	16.49	Weiss
47B1	Fairchild (North of 101)	21.51	4.92	16.59	Weiss
48B1	Fairchild (North of 101)	28.07	7.38	20.69	Weiss
49B1	Fairchild (North of 101)	27.89	5.81	22.08	Weiss
50B1	Fairchild (North of 101)	27.79	6.87	20.92	Weiss
68B1	Fairchild (North of 101)	29.85	6.36	23.49	Weiss
78B1	Fairchild (North of 101)	20.64	12.49	8.15	Weiss
79B1	Fairchild (North of 101)	17.08	7.03	10.05	Weiss
80B1	Fairchild (North of 101)	15.40	15.06	0.34	Weiss
81B1	Fairchild (North of 101)	9.20	7.69	1.51	Weiss
83B1	Fairchild (North of 101)	5.80	6.92	-1.12	Weiss
84B1	Fairchild (North of 101)	6.50	6.90	-0.40	Weiss
85B1	Fairchild (North of 101)	6.70	5.90	0.80	Weiss
86B1	Fairchild (North of 101)	15.50	6.03	9.47	Weiss
87B1	Fairchild (North of 101)	25.10	6.53	18.57	Weiss
111B1	Fairchild (North of 101)	20.49	12.15	8.34	Weiss
138B1	Fairchild (North of 101)	11.54	8.26	3.28	Weiss

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Well Name	Owner	TOC Elevation (ft msl)	Depth to Water (feet BTOC)	Groundwater Elevation (ft msl)	Measured By
A2/B1 Zone					
139B1	Fairchild (North of 101)	7.06	3.74	3.32	Weiss
148B1	Fairchild (North of 101)	26.08	11.14	14.94	Weiss
149B1	Fairchild (North of 101)	25.16	9.11	16.05	Weiss
150B1	Fairchild (North of 101)	24.96	8.31	16.65	Weiss
151B1	Fairchild (North of 101)	20.93	6.93	14.00	Weiss
152B1	Fairchild (North of 101)	20.63	8.01	12.62	Weiss
153B1	Fairchild (North of 101)	13.96	8.63	5.33	Weiss
154B1	Fairchild (North of 101)	12.78	7.83	4.95	Weiss
155B1	Fairchild (North of 101)	19.74	7.98	11.76	Weiss
2B1	Fairchild (South of 101)	43.43	14.82	28.61	Weiss
3B1	Fairchild (South of 101)	40.36	35.72	4.64	Weiss
7B1	Fairchild (South of 101)	48.61	14.85	33.76	Weiss
8B1	Fairchild (South of 101)	40.96	8.64	32.32	Weiss
12B1	Fairchild (South of 101)	36.41	10.10	26.31	Weiss
13B1	Fairchild (South of 101)	34.80	9.81	24.99	Weiss
14B1	Fairchild (South of 101)	35.68	6.76	28.92	Weiss
20B1	Fairchild (South of 101)	43.89	10.83	33.06	Weiss
21B1	Fairchild (South of 101)	37.93	12.82	25.11	Weiss
22B1	Fairchild (South of 101)	58.40	15.31	43.09	Weiss
25B1	Fairchild (South of 101)	46.75	13.73	33.02	Weiss
26B1	Fairchild (South of 101)	52.61	11.12	41.49	Weiss
32B1	Fairchild (South of 101)	38.03	13.01	25.02	Weiss
33B1	Fairchild (South of 101)	46.30	12.13	34.17	Weiss
56B1	Fairchild (South of 101)	42.14	9.72	32.42	Weiss
60B1	Fairchild (South of 101)	39.64	17.55	22.09	Weiss
67B1	Fairchild (South of 101)	36.93	8.67	28.26	Weiss
69B1	Fairchild (South of 101)	42.62	11.70	30.92	Weiss
74B1	Fairchild (South of 101)	51.84	9.20	42.64	Weiss
77B1	Fairchild (South of 101)	40.96	12.35	28.61	Weiss
91B1	Fairchild (South of 101)	48.44	14.56	33.88	Weiss
92B1	Fairchild (South of 101)	46.99	13.50	33.49	Weiss
93B1	Fairchild (South of 101)	55.27	12.52	42.75	Weiss
94B1	Fairchild (South of 101)	47.99	13.37	34.62	Weiss
95B1	Fairchild (South of 101)	56.95	NM	NM	Weiss
97B1	Fairchild (South of 101)	49.16	15.30	33.86	Weiss
98B1	Fairchild (South of 101)	54.10	13.58	40.52	Weiss
99B1	Fairchild (South of 101)	49.11	15.34	33.77	Weiss
101B1	Fairchild (South of 101)	54.92	12.41	42.51	Weiss
103B1	Fairchild (South of 101)	55.20	13.25	41.95	Weiss
104B1	Fairchild (South of 101)	41.25	12.56	28.69	Weiss
105B1	Fairchild (South of 101)	40.88	9.05	31.83	Weiss
109B1	Fairchild (South of 101)	41.15	12.46	28.69	Weiss
110B1	Fairchild (South of 101)	53.68	14.71	38.97	Weiss
112B1	Fairchild (South of 101)	46.00	11.20	34.80	Weiss
114B1	Fairchild (South of 101)	46.90	11.97	34.93	Weiss
115B1	Fairchild (South of 101)	38.76	13.35	25.41	Weiss

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Well Name	Owner	TOC Elevation (ft msl)	Depth to Water (feet BTOC)	Groundwater Elevation (ft msl)	Measured By
A2/B1 Zone					
117B1	Fairchild (South of 101)	53.80	16.30	37.50	Weiss
119B1	Fairchild (South of 101)	42.96	10.93	32.03	Weiss
120B1	Fairchild (South of 101)	60.10	15.45	44.65	Weiss
122B1	Fairchild (South of 101)	59.53	15.38	44.15	Weiss
124B1	Fairchild (South of 101)	46.91	12.45	34.46	Weiss
140B1	Fairchild (South of 101)	48.91	10.87	38.04	Weiss
143B1	Fairchild (South of 101)	38.88	12.50	26.38	Weiss
144B1	Fairchild (South of 101)	55.53	13.20	42.33	Weiss
145B1	Fairchild (South of 101)	54.00	15.30	38.70	Weiss
147B1	Fairchild (South of 101)	37.82	12.02	25.80	Weiss
156B1	Fairchild (South of 101)	50.91	12.58	38.33	Weiss
RW-1(B1)	Fairchild (South of 101)	52.40	14.27	38.13	Weiss
RW-2(B1)	Fairchild (South of 101)	48.18	12.23	35.95	Weiss
RW-3(B1)	Fairchild (South of 101)	43.28	10.48	32.80	Weiss
RW-4(B1)	Fairchild (South of 101)	42.61	15.78	26.83	Weiss
RW-5(B1)	Fairchild (South of 101)	37.87	12.42	25.45	Weiss
RW-7(B1)	Fairchild (South of 101)	36.29	29.60	6.69	Weiss
RW-10(B1)	Fairchild (South of 101)	52.40	21.26	31.14	Weiss
RW-11(B1)	Fairchild (South of 101)	50.43	18.36	32.07	Weiss
RW-12(B1)	Fairchild (South of 101)	40.51	19.25	21.26	Weiss
I9B1	Intel (South of 101)	70.92	17.14	53.78	Intel/Weiss
IE23B1	Intel (South of 101)	69.21	17.91	51.30	Intel/Weiss
IE24B1	Intel (South of 101)	60.62	15.65	44.97	Intel/Weiss
IM1B(1)	Intel (South of 101)	NA	12.76	NA	Intel/Weiss
IM2B(1)	Intel (South of 101)	56.45	14.36	42.09	Intel/Weiss
IM3B(1)	Intel (South of 101)	55.98	13.13	42.85	Intel/Weiss
IM4B(1)	Intel (South of 101)	59.93	15.86	44.07	Intel/Weiss
IM5B(1)	Intel (South of 101)	60.16	16.21	43.95	Intel/Weiss
IM6B(1)	Intel (South of 101)	58.99	14.30	44.69	Intel/Weiss
IM7B(1)	Intel (South of 101)	58.65	11.89	46.76	Intel/Weiss
IM8B(1)	Intel (South of 101)	63.95	17.58	46.37	Intel/Weiss
IM9B(1)	Intel (South of 101)	65.04	17.68	47.36	Intel/Weiss
IM19B(1)	Intel (South of 101)	63.72	17.22	46.50	Intel/Weiss
IOW1B1	Intel (South of 101)	59.84	11.98	47.86	Intel/Weiss
IOW2B1	Intel (South of 101)	63.20	16.96	46.24	Intel/Weiss
IOW3B1	Intel (South of 101)	58.75	14.77	43.98	Intel/Weiss
IOW4B1	Intel (South of 101)	59.84	15.48	44.36	Intel/Weiss
PW-4	Intel (South of 101)	58.96	14.03	44.93	Intel/Weiss
PW-5	Intel (South of 101)	60.23	15.46	44.77	Intel/Weiss
W-1B	Intel (South of 101)	59.02	13.91	45.11	Intel/Weiss
REG-5B(1)	MEW RGRP (North of 101)	33.20	14.81	18.39	Weiss
REG-6B(1)	MEW RGRP (North of 101)	24.65	28.08	-3.43	Weiss
REG-7B(1)	MEW RGRP (North of 101)	24.32	14.28	10.04	Weiss
REG-8B(1)	MEW RGRP (North of 101)	20.03	48.42	-28.39	Weiss
REG-9B(1)	MEW RGRP (North of 101)	13.60	22.94	-9.34	Weiss
REG-10B(1)	MEW RGRP (North of 101)	19.64	11.28	8.36	Weiss

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A2/B1 Zone					
REG-12B(1)	MEW RGRP (North of 101)	32.38	24.80	7.58	Weiss
ME1B1	MEW RGRP (South of 101)	58.00	8.87	49.13	NEC/Raytheon
ME2B1	MEW RGRP (South of 101)	36.57	6.78	29.79	Weiss
ME3B1	MEW RGRP (South of 101)	37.34	4.35	32.99	Weiss
NEC8B1	MEW RGRP (South of 101)	42.68	7.01	35.67	Weiss
NEC14B1	MEW RGRP (South of 101)	46.82	6.73	40.09	Weiss
NEC18B1	MEW RGRP (South of 101)	59.87	12.62	47.25	Weiss
REG-1B(1)	MEW RGRP (South of 101)	38.15	16.68	21.47	Weiss
REG-2B(1)	MEW RGRP (South of 101)	35.15	29.20	5.95	Weiss
REG-3B(1)	MEW RGRP (South of 101)	34.17	12.35	21.82	Weiss
REG-4B(1)	MEW RGRP (South of 101)	37.70	20.70	17.00	Weiss
REG-11B(1)	MEW RGRP (South of 101)	35.65	10.70	24.95	Weiss
REG-MW-1B(1)	MEW RGRP (South of 101)	40.81	13.20	27.61	Weiss
REG-MW-2B(1)	MEW RGRP (South of 101)	41.43	13.28	28.15	Weiss
RW-9(B1)R	MEW RGRP (South of 101)	38.59	34.68	3.91	Weiss
10R07A2	NASA (North of 101)	10.70	8.13	2.57	NASA
14D31A2	NASA (North of 101)	8.02	5.68	2.34	NASA
15A12A2	NASA (North of 101)	16.94	7.31	9.63	NASA
15A15A2	NASA (North of 101)	12.35	8.55	3.80	NASA
15B17A2	NASA (North of 101)	14.83	5.47	9.36	NASA
15B18A2	NASA (North of 101)	15.20	5.44	9.76	NASA
R1B1	Raytheon (South of 101)	51.87	11.95	39.92	NEC/Raytheon
R3B1	Raytheon (South of 101)	47.16	12.61	34.55	NEC/Raytheon
R5B1	Raytheon (South of 101)	47.44	13.51	33.93	NEC/Raytheon
R6B1	Raytheon (South of 101)	46.00	7.75	38.25	NEC/Raytheon
R7B1	Raytheon (South of 101)	56.47	15.47	41.00	NEC/Raytheon
R9B1	Raytheon (South of 101)	69.92	18.25	51.67	NEC/Raytheon
R13B1	Raytheon (South of 101)	35.00	5.59	29.41	NEC/Raytheon
R14B1	Raytheon (South of 101)	62.00	14.50	47.50	NEC/Raytheon
R16B1	Raytheon (South of 101)	47.00	6.48	40.52	NEC/Raytheon
R21B1	Raytheon (South of 101)	73.00	20.38	52.62	NEC/Raytheon
R22B1	Raytheon (South of 101)	62.73	13.38	49.35	NEC/Raytheon
R36B1	Raytheon (South of 101)	58.75	12.70	46.05	NEC/Raytheon
R42B1	Raytheon (South of 101)	56.61	10.75	45.86	NEC/Raytheon
R46B1	Raytheon (South of 101)	58.00	12.33	45.67	NEC/Raytheon
R60B1	Raytheon (South of 101)	58.01	7.16	50.85	NEC/Raytheon
R63B1	Raytheon (South of 101)	56.52	15.65	40.87	NEC/Raytheon
R64B1	Raytheon (South of 101)	56.65	9.40	47.25	NEC/Raytheon
R66B1	Raytheon (South of 101)	48.72	10.56	38.16	NEC/Raytheon
R67B1	Raytheon (South of 101)	49.06	10.70	38.36	NEC/Raytheon
R68B1	Raytheon (South of 101)	56.96	16.12	40.84	NEC/Raytheon
R69B1	Raytheon (South of 101)	57.28	16.51	40.77	NEC/Raytheon
R70B1	Raytheon (South of 101)	56.25	15.31	40.94	NEC/Raytheon
RAY-1B1	Raytheon (South of 101)	45.77	13.27	32.50	NEC/Raytheon
RE3B1	Raytheon (South of 101)	48.71	10.62	38.09	NEC/Raytheon
RP16B	Raytheon (South of 101)	58.63	10.22	48.41	NEC/Raytheon

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A2/B1 Zone					
RP19B	Raytheon (South of 101)	56.47	15.21	41.26	NEC/Raytheon
RP21B	Raytheon (South of 101)	53.34	12.52	40.82	NEC/Raytheon
RP22B	Raytheon (South of 101)	64.07	16.18	47.89	NEC/Raytheon
RP23B	Raytheon (South of 101)	54.67	13.95	40.72	NEC/Raytheon
RP24B	Raytheon (South of 101)	54.99	14.40	40.59	NEC/Raytheon
RP41B	Raytheon (South of 101)	57.35	15.90	41.45	NEC/Raytheon
RP42B	Raytheon (South of 101)	61.70	18.63	43.07	NEC/Raytheon
RP43B	Raytheon (South of 101)	57.28	15.64	41.64	NEC/Raytheon
GSF1B1	Siltec (South of 101)	39.61	23.84	15.77	Vishay/GeoMatrix
RW-13B(1)	Silva (South of 101)	53.20	11.44	41.76	Weiss
SO3-B1	Sobrato (South of 101)	60.87	10.15	50.72	SMI
EA2-1	U.S. Navy (North of 101)	14.38	22.60	-8.22	Navy
EA2-2	U.S. Navy (North of 101)	14.08	18.81	-4.73	Navy
EA2-3	U.S. Navy (North of 101)	13.64	11.01	2.63	Navy
PIC-16	U.S. Navy (North of 101)	17.90	6.40	11.50	Navy
PIC-17	U.S. Navy (North of 101)	18.56	6.98	11.58	Navy
PIC-18	U.S. Navy (North of 101)	17.62	6.11	11.51	Navy
PIC-19	U.S. Navy (North of 101)	18.28	6.66	11.62	Navy
W8-2	U.S. Navy (North of 101)	6.91	6.73	0.18	Navy
W8-11	U.S. Navy (North of 101)	5.96	5.65	0.31	Navy
W9-8	U.S. Navy (North of 101)	20.13	7.02	13.11	Navy
W9-9	U.S. Navy (North of 101)	17.58	6.61	10.97	Navy
W9-13	U.S. Navy (North of 101)	18.90	6.42	12.48	Navy
W9-14	U.S. Navy (North of 101)	19.23	5.55	13.68	Navy
W9-17	U.S. Navy (North of 101)	19.31	4.48	14.83	Navy
W9-20	U.S. Navy (North of 101)	16.44	4.94	11.50	Navy
W9-21	U.S. Navy (North of 101)	15.72	3.20	12.52	Navy
W9-22	U.S. Navy (North of 101)	15.21	7.55	7.66	Navy
W9-25	U.S. Navy (North of 101)	15.26	5.96	9.30	Navy
W9-27	U.S. Navy (North of 101)	15.97	9.00	6.97	Navy
W9-28	U.S. Navy (North of 101)	16.06	8.05	8.01	Navy
W9-33	U.S. Navy (North of 101)	18.33	5.58	12.75	Navy
W9-34	U.S. Navy (North of 101)	18.45	6.06	12.39	Navy
W9-36	U.S. Navy (North of 101)	20.09	6.75	13.34	Navy
W9-41	U.S. Navy (North of 101)	22.56	7.01	15.55	Weiss
W9-42	U.S. Navy (North of 101)	16.56	2.72	13.84	Navy
W9SC-3	U.S. Navy (North of 101)	16.79	8.05	8.74	Navy
W9SC-8	U.S. Navy (North of 101)	16.47	8.13	8.34	Navy
W9SC-12	U.S. Navy (North of 101)	18.40	7.72	10.68	Navy
W9SC-15	U.S. Navy (North of 101)	19.06	4.62	14.44	Navy
W9SC-20	U.S. Navy (North of 101)	22.20	6.02	16.18	Navy
W14-1	U.S. Navy (North of 101)	28.71	4.93	23.78	Navy
W14-5	U.S. Navy (North of 101)	29.94	6.00	23.94	Navy
W14-6	U.S. Navy (North of 101)	28.21	4.61	23.60	Navy
W29-7	U.S. Navy (North of 101)	14.44	8.85	5.59	Navy
W29-8	U.S. Navy (North of 101)	16.81	9.00	7.81	Navy

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 MEW Regional Groundwater Remediation Program
 Mountain View, California

Well Name	Owner	TOC Elevation (ft msl)	Depth to Water (feet BTOC)	Groundwater Elevation (ft msl)	Measured By
A2/B1 Zone					
W89-11	U.S. Navy (North of 101)	33.26	9.62	23.64	Navy
W89-12	U.S. Navy (North of 101)	31.23	7.40	23.83	Navy
W89-13B1-R	U.S. Navy (North of 101)	33.19	5.43	27.76	Weiss
W89-14	U.S. Navy (North of 101)	25.58	5.97	19.61	Navy
WIC-2	U.S. Navy (North of 101)	18.19	6.67	11.52	Navy
WIC-4	U.S. Navy (North of 101)	17.55	6.18	11.37	Navy
WNB-10	U.S. Navy (North of 101)	4.77	6.34	-1.57	Navy
WNB-11	U.S. Navy (North of 101)	1.59	3.44	-1.85	Navy
WNB-12	U.S. Navy (North of 101)	3.08	4.53	-1.45	Navy
WNB-13	U.S. Navy (North of 101)	1.37	3.61	-2.24	Navy
WNB-14	U.S. Navy (North of 101)	12.35	5.44	6.91	Navy
WU4-2	U.S. Navy (North of 101)	32.55	12.13	20.42	Navy
WU4-4	U.S. Navy (North of 101)	25.21	8.70	16.51	Navy
WU4-5	U.S. Navy (North of 101)	33.88	10.61	23.27	Navy
WU4-6	U.S. Navy (North of 101)	28.46	8.84	19.62	Weiss
WU4-7	U.S. Navy (North of 101)	24.00	7.59	16.41	Navy
WU4-9	U.S. Navy (North of 101)	15.87	10.11	5.76	Navy
WU4-11	U.S. Navy (North of 101)	16.66	5.03	11.63	Navy
WU4-12	U.S. Navy (North of 101)	21.88	6.94	14.94	Navy
WU4-13	U.S. Navy (North of 101)	22.68	10.66	12.02	Navy
WU4-15	U.S. Navy (North of 101)	12.77	6.87	5.90	Navy
WU4-19	U.S. Navy (North of 101)	11.39	7.54	3.85	Navy
B2 Zone					
17B2	Fairchild (North of 101)	27.96	6.69	21.27	Weiss
45B2	Fairchild (North of 101)	28.57	8.64	19.93	Weiss
51B2	Fairchild (North of 101)	22.07	4.98	17.09	Weiss
53B2	Fairchild (North of 101)	28.33	5.33	23.00	Weiss
54B2	Fairchild (North of 101)	28.00	5.11	22.89	Weiss
82B2	Fairchild (North of 101)	6.56	4.21	2.35	Weiss
123B2	Fairchild (North of 101)	15.46	10.58	4.88	Weiss
6B2	Fairchild (South of 101)	58.83	14.59	44.24	Weiss
9B2	Fairchild (South of 101)	54.79	17.66	37.13	Weiss
10B2	Fairchild (South of 101)	43.90	8.39	35.51	Weiss
11B2	Fairchild (South of 101)	37.19	7.63	29.56	Weiss
15B2	Fairchild (South of 101)	70.70	17.05	53.65	Weiss
16B2	Fairchild (South of 101)	47.18	10.04	37.14	Weiss
23B2	Fairchild (South of 101)	43.28	12.79	30.49	Weiss
24B2	Fairchild (South of 101)	40.47	42.05	-1.58	Weiss
36B2	Fairchild (South of 101)	37.65	13.73	23.92	Weiss
37B2	Fairchild (South of 101)	52.57	7.75	44.82	Weiss
40B2	Fairchild (South of 101)	54.59	24.52	30.07	Weiss
42B2	Fairchild (South of 101)	46.61	3.70	42.91	Weiss
43B2	Fairchild (South of 101)	36.28	7.08	29.20	Weiss
62B2	Fairchild (South of 101)	34.93	6.47	28.46	Weiss
64B2(R)	Fairchild (South of 101)	35.67	6.75	28.92	Weiss
75B2	Fairchild (South of 101)	46.59	6.16	40.43	Weiss

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 MEW Regional Groundwater Remediation Program
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Well Name	Owner	TOC Elevation (ft msl)	Depth to Water (feet BTOC)	Groundwater Elevation (ft msl)	Measured By
B2 Zone					
76B2	Fairchild (South of 101)	55.12	12.43	42.69	Weiss
88B2	Fairchild (South of 101)	56.80	NM	NM	Weiss
89B2	Fairchild (South of 101)	48.43	12.68	35.75	Weiss
90B2	Fairchild (South of 101)	54.18	11.56	42.62	Weiss
107B2	Fairchild (South of 101)	41.26	9.17	32.09	Weiss
108B2	Fairchild (South of 101)	41.25	9.19	32.06	Weiss
113B2	Fairchild (South of 101)	39.01	13.70	25.31	Weiss
116B2	Fairchild (South of 101)	42.14	4.47	37.67	Weiss
118B2	Fairchild (South of 101)	43.21	8.32	34.89	Weiss
125B2	Fairchild (South of 101)	46.74	7.93	38.81	Weiss
129B2	Fairchild (South of 101)	56.87	7.09	49.78	Weiss
130B2	Fairchild (South of 101)	56.77	8.85	47.92	Weiss
132B2	Fairchild (South of 101)	49.21	14.25	34.96	Weiss
134B2	Fairchild (South of 101)	47.85	10.70	37.15	Weiss
141B2	Fairchild (South of 101)	48.92	8.05	40.87	Weiss
146B2	Fairchild (South of 101)	53.58	NM	NM	Weiss
148B2	Fairchild (South of 101)	37.72	7.94	29.78	Weiss
RW-1(B2)	Fairchild (South of 101)	53.49	72.38	-18.89	Weiss
RW-2(B2)	Fairchild (South of 101)	48.95	19.12	29.83	Weiss
RW-3(B2)	Fairchild (South of 101)	42.96	7.32	35.64	Weiss
RW-4(B2)	Fairchild (South of 101)	41.79	22.45	19.34	Weiss
RW-5(B2)	Fairchild (South of 101)	37.98	7.79	30.19	Weiss
RW-7(B2)	Fairchild (South of 101)	38.76	11.41	27.35	Weiss
IM10B(2)	Intel (South of 101)	60.27	6.62	53.65	Intel/Weiss
IOW3B2	Intel (South of 101)	58.75	14.36	44.39	Intel/Weiss
38B2	MEW RGRP (South of 101)	44.09	41.05	3.04	Weiss
NEC8B2	MEW RGRP (South of 101)	42.50	-2.30	44.80	Weiss
NEC18B2	MEW RGRP (South of 101)	59.87	10.46	49.41	Weiss
REG-1B(2)	MEW RGRP (South of 101)	38.20	74.81	-36.61	Weiss
REG-3B(2)	MEW RGRP (South of 101)	34.84	15.11	19.73	Weiss
REG-MW-1B(2)	MEW RGRP (South of 101)	40.89	9.60	31.29	Weiss
RW-9(B2)	MEW RGRP (South of 101)	37.88	56.20	-18.32	Weiss
I-1B2	Raytheon (South of 101)	58.76	40.00	18.76	NEC/Raytheon
R5B2	Raytheon (South of 101)	50.46	1.02	49.44	NEC/Raytheon
R9B2	Raytheon (South of 101)	72.00	18.42	53.58	NEC/Raytheon
R13B2	Raytheon (South of 101)	35.00	3.41	31.59	NEC/Raytheon
R17B2	Raytheon (South of 101)	60.69	14.72	45.97	NEC/Raytheon
R27B2	Raytheon (South of 101)	51.66	3.27	48.39	NEC/Raytheon
R28B2	Raytheon (South of 101)	57.57	2.22	55.35	NEC/Raytheon
R30B2	Raytheon (South of 101)	63.00	12.73	50.27	NEC/Raytheon
R33B2	Raytheon (South of 101)	56.64	7.93	48.71	NEC/Raytheon
R39B2	Raytheon (South of 101)	51.07	2.00	49.07	NEC/Raytheon
R40B1(B2)	Raytheon (South of 101)	54.06	15.95	38.11	NEC/Raytheon
R41B2	Raytheon (South of 101)	57.00	8.56	48.44	NEC/Raytheon
R50B2	Raytheon (South of 101)	60.00	4.17	55.83	NEC/Raytheon
R52B2	Raytheon (South of 101)	64.24	13.14	51.10	NEC/Raytheon

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Well Name	Owner	TOC Elevation (ft msl)	Depth to Water (feet BTOC)	Groundwater Elevation (ft msl)	Measured By
B2 Zone					
R53B2	Raytheon (South of 101)	64.09	0.63	63.46	NEC/Raytheon
R55B2	Raytheon (South of 101)	64.21	9.12	55.09	NEC/Raytheon
R58B2	Raytheon (South of 101)	50.58	5.62	44.96	NEC/Raytheon
R59B2	Raytheon (South of 101)	51.29	0.52	50.77	NEC/Raytheon
R62B2	Raytheon (South of 101)	56.91	1.50	55.41	NEC/Raytheon
R68B2	Raytheon (South of 101)	54.91	0.62	54.29	NEC/Raytheon
R69B2	Raytheon (South of 101)	54.85	5.54	49.31	NEC/Raytheon
R70B2	Raytheon (South of 101)	54.68	7.62	47.06	NEC/Raytheon
R71B2	Raytheon (South of 101)	57.45	5.42	52.03	NEC/Raytheon
R72B2	Raytheon (South of 101)	57.11	8.21	48.90	NEC/Raytheon
R73B2	Raytheon (South of 101)	57.15	7.30	49.85	NEC/Raytheon
RE1B2	Raytheon (South of 101)	52.88	2.42	50.46	NEC/Raytheon
GSF1B2	Siltec (South of 101)	39.61	16.54	23.07	Vishay/GeoMatrix
W9-4	U.S. Navy (North of 101)	12.46	5.69	6.77	Navy
W9-11	U.S. Navy (North of 101)	13.06	7.04	6.02	Navy
W9-12	U.S. Navy (North of 101)	19.68	4.60	15.08	Navy
W9-15	U.S. Navy (North of 101)	17.00	4.31	12.69	Navy
W9-39	U.S. Navy (North of 101)	15.29	5.87	9.42	Navy
W9-40	U.S. Navy (North of 101)	20.09	5.73	14.36	Navy
W88-1	U.S. Navy (North of 101)	17.39	3.10	14.29	Navy
W88-2	U.S. Navy (North of 101)	15.63	8.91	6.72	Navy
W88-3	U.S. Navy (North of 101)	17.56	8.63	8.93	Navy
B3 Zone					
29B3	Fairchild (North of 101)	26.00	6.29	19.71	Weiss
55B3	Fairchild (North of 101)	27.96	7.35	20.61	Weiss
57B3	Fairchild (North of 101)	21.50	4.55	16.95	Weiss
28B3	Fairchild (South of 101)	46.85	-9.19	56.04	Weiss
30B3	Fairchild (South of 101)	58.18	3.72	54.46	Weiss
31B3	Fairchild (South of 101)	43.46	3.83	39.63	Weiss
39B3	Fairchild (South of 101)	40.66	10.42	30.24	Weiss
44B3	Fairchild (South of 101)	37.62	2.44	35.18	Weiss
63B3	Fairchild (South of 101)	35.04	5.72	29.32	Weiss
133B3	Fairchild (South of 101)	49.26	-5.42	54.68	Weiss
65B3	MEW RGRP (South of 101)	43.36	-8.25	51.61	Weiss
R5B3	Raytheon (South of 101)	50.20	-5.50	55.70	NEC/Raytheon
R9B3	Raytheon (South of 101)	69.64	3.68	65.96	NEC/Raytheon
R18B3	Raytheon (South of 101)	51.66	-5.53	57.19	NEC/Raytheon
R27B3	Raytheon (South of 101)	51.37	-5.55	56.92	NEC/Raytheon
R37B3	Raytheon (South of 101)	60.52	-0.62	61.14	NEC/Raytheon
R51B3	Raytheon (South of 101)	59.86	-1.10	60.96	NEC/Raytheon
R54B3	Raytheon (South of 101)	64.52	-0.47	64.99	NEC/Raytheon
R56B3	Raytheon (South of 101)	64.13	2.03	62.10	NEC/Raytheon
R57B3	Raytheon (South of 101)	57.00	-4.52	61.52	NEC/Raytheon
R61B3	Raytheon (South of 101)	58.41	-3.77	62.18	NEC/Raytheon
W9-5	U.S. Navy (North of 101)	12.10	4.06	8.04	Navy

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C Zone					
6C	Fairchild (South of 101)	38.65	-26.17	64.82	Weiss
8C	Fairchild (South of 101)	55.03	-9.00	64.03	Weiss
9C	Fairchild (South of 101)	60.21	-4.25	64.46	Weiss
10C	Fairchild (South of 101)	59.44	-5.92	65.36	Weiss
11C	Fairchild (South of 101)	49.21	-16.13	65.34	Weiss
DW2-234	Fairchild (South of 101)	59.79	-4.38	64.17	Weiss
DW6-205	Fairchild (South of 101)	42.36	-24.63	66.99	Weiss
DW3-219	MEW RGRP (South of 101)	48.67	-18.50	67.17	Weiss
DW1-230	Raytheon (South of 101)	62.38	-0.79	63.17	Weiss
R3C	Raytheon (South of 101)	70.10	2.50	67.60	NEC/Raytheon
R4C	Raytheon (South of 101)	72.00	5.75	66.25	NEC/Raytheon
RW-1C	Silva (South of 101)	53.20	-10.67	63.87	Weiss
W3-16	U.S. Navy (North of 101)	0.37	-51.29	51.66	Navy
W4-7	U.S. Navy (North of 101)	4.55	-51.29	55.84	Navy
W8-3	U.S. Navy (North of 101)	13.08	-9.12	22.20	Navy
W9-3	U.S. Navy (North of 101)	19.28	-2.65	21.93	Navy
Deep Zone					
DW3-551	Fairchild (South of 101)	47.14	-9.21	56.35	Weiss
DW6-231	Fairchild (South of 101)	42.36	-25.71	68.07	Weiss
DW6-304	Fairchild (South of 101)	42.36	-27.00	69.36	Weiss
DW6-470	Fairchild (South of 101)	42.36	-18.81	61.17	Weiss
DW6-496	Fairchild (South of 101)	42.36	-18.29	60.65	Weiss
DW3-244	MEW RGRP (South of 101)	48.29	-22.38	70.67	Weiss
DW3-334	MEW RGRP (South of 101)	48.69	-22.21	70.90	Weiss
DW3-364	MEW RGRP (South of 101)	48.39	-20.79	69.18	Weiss
DW3-505R	MEW RGRP (South of 101)	48.92	-11.92	60.84	Weiss

Notes:

TOC = Top of Casing
 ft msl = Feet Mean Sea Level
 NM = Not Measured
 BTOC = Below Top of Casing
 NA = Not Available

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 MEW Regional Groundwater Remediation Program
 Mountain View, California

Well Name	Owner	TOC Elevation (ft msl)	Depth to Water (feet BTOC)	Groundwater Elevation (ft msl)	Measured By
A/A1 Zone					
63A	Fairchild (North of 101)	33.76	12.18	21.58	Weiss
64A	Fairchild (North of 101)	32.59	9.18	23.41	Weiss
65A	Fairchild (North of 101)	28.04	9.12	18.92	Weiss
66A	Fairchild (North of 101)	22.07	6.79	15.28	Weiss
72A	Fairchild (North of 101)	32.82	7.86	24.96	Weiss
73A	Fairchild (North of 101)	21.62	5.29	16.33	Weiss
74A	Fairchild (North of 101)	27.96	8.60	19.36	Weiss
75A	Fairchild (North of 101)	30.43	7.32	23.11	Weiss
81A	Fairchild (North of 101)	21.89	5.69	16.20	Weiss
82A	Fairchild (North of 101)	27.69	10.17	17.52	Weiss
85A	Fairchild (North of 101)	27.86	10.28	17.58	Weiss
86A	Fairchild (North of 101)	21.68	5.28	16.40	Weiss
88A	Fairchild (North of 101)	20.26	6.23	14.03	Weiss
89A	Fairchild (North of 101)	17.20	7.41	9.79	Weiss
90A	Fairchild (North of 101)	15.12	10.45	4.67	Weiss
91A	Fairchild (North of 101)	9.30	8.55	0.75	Weiss
92A	Fairchild (North of 101)	6.67	6.87	-0.20	Weiss
93A	Fairchild (North of 101)	5.90	7.56	-1.66	Weiss
94A	Fairchild (North of 101)	6.50	8.17	-1.67	Weiss
95A	Fairchild (North of 101)	6.65	7.58	-0.93	Weiss
96A	Fairchild (North of 101)	11.10	9.53	1.57	Weiss
97A	Fairchild (North of 101)	25.07	6.71	18.36	Weiss
163A	Fairchild (North of 101)	32.86	11.39	21.47	Weiss
164A	Fairchild (North of 101)	24.69	7.29	17.40	Weiss
165A	Fairchild (North of 101)	24.37	6.76	17.61	Weiss
166A	Fairchild (North of 101)	25.17	9.34	15.83	Weiss
167A	Fairchild (North of 101)	31.07	11.83	19.24	Weiss
168A	Fairchild (North of 101)	30.49	11.52	18.97	Weiss
169A	Fairchild (North of 101)	29.08	7.45	21.63	Weiss
170A	Fairchild (North of 101)	29.05	7.96	21.09	Weiss
171A	Fairchild (North of 101)	25.95	8.28	17.67	Weiss
172A	Fairchild (North of 101)	24.61	7.08	17.53	Weiss
1A	Fairchild (South of 101)	58.75	15.93	42.82	Weiss
4A	Fairchild (South of 101)	54.69	15.30	39.39	Weiss
6A	Fairchild (South of 101)	54.74	15.19	39.55	Weiss
9A	Fairchild (South of 101)	55.82	17.00	38.82	Weiss
12A	Fairchild (South of 101)	55.11	16.97	38.14	Weiss
15A	Fairchild (South of 101)	54.06	16.00	38.06	Weiss
16A	Fairchild (South of 101)	53.30	14.50	38.80	Weiss
17A	Fairchild (South of 101)	53.40	15.24	38.16	Weiss
20A	Fairchild (South of 101)	51.37	10.99	40.38	Weiss
21A	Fairchild (South of 101)	53.76	18.22	35.54	Weiss
22A	Fairchild (South of 101)	52.87	19.28	33.59	Weiss
23A	Fairchild (South of 101)	50.56	16.85	33.71	Weiss
24A	Fairchild (South of 101)	48.42	15.62	32.80	Weiss
26A	Fairchild (South of 101)	47.20	10.55	36.65	Weiss

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Well Name	Owner	TOC Elevation (ft msl)	Depth to Water (feet BTOC)	Groundwater Elevation (ft msl)	Measured By
A/A1 Zone					
28A	Fairchild (South of 101)	47.09	14.16	32.93	Weiss
29A	Fairchild (South of 101)	46.08	11.90	34.18	Weiss
31A	Fairchild (South of 101)	43.87	13.70	30.17	Weiss
32A	Fairchild (South of 101)	45.06	11.77	33.29	Weiss
33A	Fairchild (South of 101)	43.74	11.06	32.68	Weiss
35A	Fairchild (South of 101)	42.67	16.40	26.27	Weiss
36A	Fairchild (South of 101)	42.32	15.55	26.77	Weiss
37A	Fairchild (South of 101)	43.21	16.65	26.56	Weiss
39A	Fairchild (South of 101)	42.77	12.65	30.12	Weiss
40A	Fairchild (South of 101)	43.44	13.08	30.36	Weiss
41A	Fairchild (South of 101)	42.40	12.71	29.69	Weiss
42A	Fairchild (South of 101)	42.97	13.20	29.77	Weiss
43A	Fairchild (South of 101)	43.38	13.15	30.23	Weiss
44A	Fairchild (South of 101)	43.13	13.08	30.05	Weiss
45A	Fairchild (South of 101)	43.70	11.71	31.99	Weiss
46A	Fairchild (South of 101)	42.10	11.87	30.23	Weiss
50A	Fairchild (South of 101)	41.39	11.75	29.64	Weiss
51A	Fairchild (South of 101)	44.22	17.49	26.73	Weiss
54A	Fairchild (South of 101)	39.774	11.80	27.97	Weiss
56A	Fairchild (South of 101)	39.09	9.85	29.24	Weiss
57A	Fairchild (South of 101)	39.21	12.98	26.23	Weiss
58A	Fairchild (South of 101)	38.132	10.94	27.19	Weiss
59A	Fairchild (South of 101)	39.56	13.97	25.59	Weiss
61A	Fairchild (South of 101)	37.18	11.39	25.79	Weiss
62A	Fairchild (South of 101)	35.3	11.65	23.65	Weiss
67A	Fairchild (South of 101)	39.77	15.84	23.93	Weiss
68A	Fairchild (South of 101)	43.26	14.19	29.07	Weiss
69A	Fairchild (South of 101)	42.48	12.85	29.63	Weiss
70A	Fairchild (South of 101)	55.10	16.25	38.85	Weiss
71A	Fairchild (South of 101)	55.15	20.01	35.14	Weiss
76A	Fairchild (South of 101)	40.08	17.49	22.59	Weiss
77A	Fairchild (South of 101)	52.59	14.20	38.39	Weiss
78A	Fairchild (South of 101)	46.44	12.62	33.82	Weiss
79A	Fairchild (South of 101)	36.61	10.28	26.33	Weiss
80A	Fairchild (South of 101)	38.925	11.78	27.14	Weiss
83A	Fairchild (South of 101)	46.60	14.40	32.20	Weiss
84A	Fairchild (South of 101)	43.38	11.44	31.94	Weiss
99A	Fairchild (South of 101)	48.33	15.30	33.03	Weiss
100A	Fairchild (South of 101)	48.02	14.70	33.32	Weiss
101A	Fairchild (South of 101)	55.14	14.88	40.26	Weiss
105A	Fairchild (South of 101)	49.08	16.90	32.18	Weiss
106A	Fairchild (South of 101)	49.27	16.92	32.35	Weiss
107A	Fairchild (South of 101)	55.08	16.25	38.83	Weiss
108A	Fairchild (South of 101)	41.20	11.62	29.58	Weiss
109A	Fairchild (South of 101)	41.61	11.50	30.11	Weiss
110A	Fairchild (South of 101)	41.18	10.75	30.43	Weiss
115A	Fairchild (South of 101)	53.48	17.04	36.44	Weiss

Table B-2
19 September 2013 Groundwater Elevation Data
 MEW Regional Groundwater Remediation Program
 Mountain View, California

Well Name	Owner	TOC Elevation (ft msl)	Depth to Water (feet BTOC)	Groundwater Elevation (ft msl)	Measured By
A/A1 Zone					
116A	Fairchild (South of 101)	40.97	11.50	29.47	Weiss
118A	Fairchild (South of 101)	39.78	16.47	23.31	Weiss
119A	Fairchild (South of 101)	45.95	12.50	33.45	Weiss
121A	Fairchild (South of 101)	41.82	15.73	26.09	Weiss
122A	Fairchild (South of 101)	44.23	17.85	26.38	Weiss
123A	Fairchild (South of 101)	44.37	13.15	31.22	Weiss
124A	Fairchild (South of 101)	38.86	14.89	23.97	Weiss
125A	Fairchild (South of 101)	42.17	10.24	31.93	Weiss
126A	Fairchild (South of 101)	42.85	13.30	29.55	Weiss
127A	Fairchild (South of 101)	43.81	10.61	33.20	Weiss
128A	Fairchild (South of 101)	43.38	10.44	32.94	Weiss
129A	Fairchild (South of 101)	41.47	13.42	28.05	Weiss
130A	Fairchild (South of 101)	41.60	14.73	26.87	Weiss
133A	Fairchild (South of 101)	43.75	13.65	30.10	Weiss
134A	Fairchild (South of 101)	53.44	15.83	37.61	Weiss
136A	Fairchild (South of 101)	42.43	11.06	31.37	Weiss
137A	Fairchild (South of 101)	43.68	17.05	26.63	Weiss
138A	Fairchild (South of 101)	43.60	12.89	30.71	Weiss
139A	Fairchild (South of 101)	53.21	15.39	37.82	Weiss
140A	Fairchild (South of 101)	56.99	13.65	43.34	Weiss
141A	Fairchild (South of 101)	53.25	10.02	43.23	Weiss
142A	Fairchild (South of 101)	57.30	13.31	43.99	Weiss
143A	Fairchild (South of 101)	55.72	16.61	39.11	Weiss
144A	Fairchild (South of 101)	59.41	17.60	41.81	Weiss
145A	Fairchild (South of 101)	47.04	13.08	33.96	Weiss
146A	Fairchild (South of 101)	48.93	12.40	36.53	Weiss
147A	Fairchild (South of 101)	39.26	10.79	28.47	Weiss
148A	Fairchild (South of 101)	53.92	15.91	38.01	Weiss
149A	Fairchild (South of 101)	51.90	18.22	33.68	Weiss
151A	Fairchild (South of 101)	39.829	12.07	27.76	Weiss
152A	Fairchild (South of 101)	38.555	11.11	27.44	Weiss
153A	Fairchild (South of 101)	45.72	11.65	34.07	Weiss
154A	Fairchild (South of 101)	53.90	19.97	33.93	Weiss
155A	Fairchild (South of 101)	54.17	16.45	37.72	Weiss
156A	Fairchild (South of 101)	40.22	18.85	21.37	Weiss
157A	Fairchild (South of 101)	40.50	17.01	23.49	Weiss
158A	Fairchild (South of 101)	48.09	10.75	37.34	Weiss
159A	Fairchild (South of 101)	54.62	16.86	37.76	Weiss
160A	Fairchild (South of 101)	53.89	20.15	33.74	Weiss
161A	Fairchild (South of 101)	56.15	17.28	38.87	Weiss
162A	Fairchild (South of 101)	36.47	9.72	26.75	Weiss
173A	Fairchild (South of 101)	50.87	15.38	35.49	Weiss
174A	Fairchild (South of 101)	53.70	16.01	37.69	Weiss
175A	Fairchild (South of 101)	53.86	19.78	34.08	Weiss
AE/RW-9-1	Fairchild (South of 101)	43.15	17.55	25.60	Weiss
AE/RW-9-2	Fairchild (South of 101)	43.85	18.10	25.75	Weiss
RW-1A	Fairchild (South of 101)	53.71	27.40	26.31	Weiss

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 MEW Regional Groundwater Remediation Program
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Well Name	Owner	TOC Elevation (ft msl)	Depth to Water (feet BTOC)	Groundwater Elevation (ft msl)	Measured By
A/A1 Zone					
RW-2A	Fairchild (South of 101)	49.42	17.02	32.40	Weiss
RW-3A	Fairchild (South of 101)	43.34	10.85	32.49	Weiss
RW-4A	Fairchild (South of 101)	42.66	15.83	26.83	Weiss
RW-5A	Fairchild (South of 101)	36.86	13.60	23.26	Weiss
RW-7A	Fairchild (South of 101)	37.18	18.40	18.78	Weiss
RW-11A	Fairchild (South of 101)	54.87	17.23	37.64	Weiss
RW-12A	Fairchild (South of 101)	53.96	16.28	37.68	Weiss
RW-16A	Fairchild (South of 101)	43.89	16.15	27.74	Weiss
RW-18A	Fairchild (South of 101)	37.53	13.18	24.35	Weiss
RW-20A	Fairchild (South of 101)	43.57	21.10	22.47	Weiss
RW-21A	Fairchild (South of 101)	43.16	18.45	24.71	Weiss
RW-23A	Fairchild (South of 101)	52.75	21.21	31.54	Weiss
RW-24A	Fairchild (South of 101)	50.15	NM	NM	Weiss
RW-25A	Fairchild (South of 101)	38.38	11.85	26.53	Weiss
RW-26A	Fairchild (South of 101)	53.51	13.13	40.38	Weiss
RW-27A	Fairchild (South of 101)	38.41	20.17	18.24	Weiss
RW-28A	Fairchild (South of 101)	42.33	15.85	26.48	Weiss
RW-29A	Fairchild (South of 101)	48.18	27.70	20.48	Weiss
IE6A	Intel (South of 101)	63.83	18.36	45.47	Intel/Weiss
IE7A	Intel (South of 101)	63.95	18.51	45.44	Intel/Weiss
IE9A	Intel (South of 101)	61.11	16.70	44.41	Intel/Weiss
IE10A	Intel (South of 101)	59.99	15.51	44.48	Intel/Weiss
IE14A	Intel (South of 101)	63.28	17.78	45.50	Intel/Weiss
IE15DB1	Intel (South of 101)	60.94	16.44	44.50	Intel/Weiss
IE19A	Intel (South of 101)	63.59	18.27	45.32	Intel/Weiss
IE23A	Intel (South of 101)	72.01	25.81	46.20	Intel/Weiss
II9A	Intel (South of 101)	71.28	25.53	45.75	Intel/Weiss
IIW1A	Intel (South of 101)	60.48	15.91	44.57	Intel/Weiss
IM1A	Intel (South of 101)	NA	11.59	NA	Intel/Weiss
IM4A	Intel (South of 101)	59.93	16.50	43.43	Intel/Weiss
IM5A	Intel (South of 101)	60.17	16.38	43.79	Intel/Weiss
IM6A	Intel (South of 101)	58.59	14.90	43.69	Intel/Weiss
IM7A	Intel (South of 101)	58.52	13.17	45.35	Intel/Weiss
IM8A	Intel (South of 101)	64.30	18.72	45.58	Intel/Weiss
IM9A	Intel (South of 101)	64.66	20.06	44.60	Intel/Weiss
IM18A	Intel (South of 101)	61.39	16.24	45.15	Intel/Weiss
IM19A	Intel (South of 101)	63.55	18.11	45.44	Intel/Weiss
IOW1A	Intel (South of 101)	59.83	15.48	44.35	Intel/Weiss
IOW3A	Intel (South of 101)	58.74	15.29	43.45	Intel/Weiss
IOW4A	Intel (South of 101)	59.83	15.84	43.99	Intel/Weiss
PW-1	Intel (South of 101)	63.04	17.65	45.39	Intel/Weiss
PW-2	Intel (South of 101)	61.48	16.67	44.81	Intel/Weiss
PW-3	Intel (South of 101)	59.02	14.58	44.44	Intel/Weiss
W-1A	Intel (South of 101)	58.96	14.21	44.75	Intel/Weiss
REG-2A	MEW RGRP (North of 101)	32.33	12.44	19.89	Weiss
REG-3A	MEW RGRP (North of 101)	24.26	16.81	7.45	Weiss

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Well Name	Owner	TOC Elevation (ft msl)	Depth to Water (feet BTOC)	Groundwater Elevation (ft msl)	Measured By
A/A1 Zone					
REG-4A	MEW RGRP (North of 101)	25.22	18.38	6.84	Weiss
REG-5A	MEW RGRP (North of 101)	29.40	17.17	12.23	Weiss
REG-6A	MEW RGRP (North of 101)	13.53	13.03	0.50	Weiss
REG-7A	MEW RGRP (North of 101)	17.11	11.40	5.71	Weiss
REG-8A	MEW RGRP (North of 101)	28.72	17.44	11.28	Weiss
REG-9A	MEW RGRP (North of 101)	24.18	10.91	13.27	Weiss
REG-1A	MEW RGRP (South of 101)	35.60	12.50	23.10	Weiss
REG-10A	MEW RGRP (South of 101)	34.83	38.10	-3.27	Weiss
REG-11A	MEW RGRP (South of 101)	35.15	14.47	20.68	Weiss
REG-12A	MEW RGRP (South of 101)	38.04	12.10	25.94	Weiss
REG-MW-1A	MEW RGRP (South of 101)	41.00	12.42	28.58	Weiss
REG-MW-2A	MEW RGRP (South of 101)	38.11	11.28	26.83	Weiss
RW-9A	MEW RGRP (South of 101)	37.83	18.42	19.41	Weiss
10H01A	NASA (North of 101)	5.16	8.45	-3.29	NASA
10H02A	NASA (North of 101)	2.26	5.92	-3.66	NASA
10J04A	NASA (North of 101)	3.89	5.96	-2.07	NASA
10J05A	NASA (North of 101)	6.34	7.36	-1.02	NASA
10J09A	NASA (North of 101)	3.70	6.21	-2.51	NASA
10Q08A	NASA (North of 101)	6.54	5.52	1.02	NASA
10R09A	NASA (North of 101)	8.78	8.90	-0.12	NASA
10R10A	NASA (North of 101)	9.15	7.88	1.27	NASA
10R11A	NASA (North of 101)	9.25	8.90	0.35	NASA
11E02A	NASA (North of 101)	4.76	7.86	-3.10	NASA
11M02A	NASA (North of 101)	4.27	6.13	-1.86	NASA
11M03A	NASA (North of 101)	6.51	8.62	-2.11	NASA
11M07A	NASA (North of 101)	5.86	7.20	-1.34	NASA
11M14A	NASA (North of 101)	8.26	9.67	-1.41	NASA
11M16A1	NASA (North of 101)	8.79	10.36	-1.57	NASA
11M17A	NASA (North of 101)	4.16	5.70	-1.54	NASA
11M18A	NASA (North of 101)	3.72	5.40	-1.68	NASA
11M21A	NASA (North of 101)	7.10	8.35	-1.25	NASA
11N21A	NASA (North of 101)	6.14	6.98	-0.84	NASA
11N22A	NASA (North of 101)	10.75	11.20	-0.45	NASA
11N27A	NASA (North of 101)	12.25	11.85	0.40	NASA
14C06A	NASA (North of 101)	15.02	10.74	4.28	NASA
14C15A	NASA (North of 101)	13.39	8.13	5.26	NASA
14C33A	NASA (North of 101)	13.55	9.34	4.21	NASA
14C40A	NASA (North of 101)	11.49	8.20	3.29	NASA
14C60A	NASA (North of 101)	10.27	8.71	1.56	NASA
14D02A	NASA (North of 101)	10.15	7.24	2.91	NASA
14D05A	NASA (North of 101)	14.68	6.55	8.13	NASA
14D09A	NASA (North of 101)	15.81	9.62	6.19	NASA
14D12A	NASA (North of 101)	14.78	9.57	5.21	NASA
14D24A	NASA (North of 101)	8.29	13.73	-5.44	NASA
14D25A	NASA (North of 101)	8.30	6.68	1.62	NASA
14D26A	NASA (North of 101)	8.35	17.26	-8.91	NASA

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Well Name	Owner	TOC Elevation (ft msl)	Depth to Water (feet BTOC)	Groundwater Elevation (ft msl)	Measured By
A/A1 Zone					
14D29A	NASA (North of 101)	13.93	8.90	5.03	NASA
14D33A	NASA (North of 101)	10.00	7.56	2.44	NASA
14D35A	NASA (North of 101)	9.29	7.11	2.18	NASA
14D36A	NASA (North of 101)	12.05	8.05	4.00	NASA
14D37A	NASA (North of 101)	8.19	6.41	1.78	NASA
14E14A	NASA (North of 101)	21.64	11.10	10.54	NASA
15A01A	NASA (North of 101)	15.36	10.88	4.48	NASA
15A02A	NASA (North of 101)	17.14	7.13	10.01	NASA
15A04A	NASA (North of 101)	14.24	8.42	5.82	NASA
15A06A	NASA (North of 101)	15.24	7.15	8.09	NASA
15A08A	NASA (North of 101)	14.31	7.73	6.58	NASA
15A16A	NASA (North of 101)	12.21	9.47	2.74	NASA
15A18A	NASA (North of 101)	12.74	8.95	3.79	NASA
15B09A	NASA (North of 101)	13.20	7.25	5.95	NASA
15B10A	NASA (North of 101)	15.30	6.53	8.77	NASA
15H05A	NASA (North of 101)	18.69	5.95	12.74	NASA
NASA-1A	NASA (North of 101)	NA	NM	NA	NASA
NASA-2A	NASA (North of 101)	NA	NM	NA	NASA
NASA-3A	NASA (North of 101)	NA	NM	NA	NASA
NASA-4A	NASA (North of 101)	NA	NM	NA	NASA
TANK 1-E	NASA (North of 101)	16.45	7.31	9.14	NASA
NEC1A	NEC (South of 101)	44.47	9.33	35.14	NEC/Raytheon
NEC1AE	NEC (South of 101)	43.90	9.49	34.41	NEC/Raytheon
NEC3A	NEC (South of 101)	43.76	8.26	35.50	NEC/Raytheon
NEC7A	NEC (South of 101)	43.80	11.05	32.75	NEC/Raytheon
NEC8A	NEC (South of 101)	42.29	10.51	31.78	NEC/Raytheon
NEC9A	NEC (South of 101)	43.14	8.68	34.46	NEC/Raytheon
NEC10A	NEC (South of 101)	39.43	7.57	31.86	NEC/Raytheon
NEC11A	NEC (South of 101)	45.97	10.43	35.54	NEC/Raytheon
NEC12A	NEC (South of 101)	44.24	10.37	33.87	NEC/Raytheon
NEC20A	NEC (South of 101)	46.62	9.34	37.28	NEC/Raytheon
NEC21A	NEC (South of 101)	44.06	8.75	35.31	NEC/Raytheon
NEC22AE	NEC (South of 101)	43.17	9.50	33.67	NEC/Raytheon
NEC23A	NEC (South of 101)	43.77	9.82	33.95	NEC/Raytheon
NEC24A	NEC (South of 101)	44.50	10.60	33.90	NEC/Raytheon
NEC25A	NEC (South of 101)	42.30	9.11	33.19	NEC/Raytheon
NEC26A	NEC (South of 101)	43.65	9.40	34.25	NEC/Raytheon
NEC27AE	NEC (South of 101)	43.73	18.39	25.34	NEC/Raytheon
NEC28AE	NEC (South of 101)	42.27	11.95	30.32	NEC/Raytheon
NEC-PZ-1A	NEC (South of 101)	42.47	10.60	31.87	NEC/Raytheon
NEC-PZ-2A	NEC (South of 101)	43.02	10.83	32.19	NEC/Raytheon
NEC-PZ-3A	NEC (South of 101)	43.16	10.18	32.98	NEC/Raytheon
R2A	Raytheon (South of 101)	57.85	21.30	36.55	NEC/Raytheon
R6A	Raytheon (South of 101)	55.64	9.89	45.75	NEC/Raytheon
R10A	Raytheon (South of 101)	51.83	15.69	36.14	NEC/Raytheon
R14A	Raytheon (South of 101)	55.41	10.39	45.02	NEC/Raytheon

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Well Name	Owner	TOC Elevation (ft msl)	Depth to Water (feet BTOC)	Groundwater Elevation (ft msl)	Measured By
A/A1 Zone					
R15A	Raytheon (South of 101)	56.94	11.57	45.37	NEC/Raytheon
R20A	Raytheon (South of 101)	57.00	11.57	45.43	NEC/Raytheon
R21A	Raytheon (South of 101)	64.15	18.09	46.06	NEC/Raytheon
R22A	Raytheon (South of 101)	73.00	26.64	46.36	NEC/Raytheon
R24A	Raytheon (South of 101)	70.05	NM	NM	NEC/Raytheon
R25A	Raytheon (South of 101)	59.20	15.30	43.90	NEC/Raytheon
R27A	Raytheon (South of 101)	47.70	15.50	32.20	NEC/Raytheon
R29A	Raytheon (South of 101)	36.00	7.66	28.34	NEC/Raytheon
R31A	Raytheon (South of 101)	34.00	9.62	24.38	NEC/Raytheon
R32A	Raytheon (South of 101)	35.65	8.73	26.92	NEC/Raytheon
R36A	Raytheon (South of 101)	53.99	19.24	34.75	NEC/Raytheon
R41A	Raytheon (South of 101)	51.00	15.97	35.03	NEC/Raytheon
R43A	Raytheon (South of 101)	46.00	7.31	38.69	NEC/Raytheon
R44A	Raytheon (South of 101)	57.66	12.55	45.11	NEC/Raytheon
R45A	Raytheon (South of 101)	62.00	16.90	45.10	NEC/Raytheon
R46A	Raytheon (South of 101)	73.00	25.97	47.03	NEC/Raytheon
R48A	Raytheon (South of 101)	66.86	20.43	46.43	NEC/Raytheon
R50A	Raytheon (South of 101)	60.43	16.08	44.35	NEC/Raytheon
R51A	Raytheon (South of 101)	60.00	14.44	45.56	NEC/Raytheon
R52A	Raytheon (South of 101)	64.00	18.74	45.26	NEC/Raytheon
R53A	Raytheon (South of 101)	58.60	NM	NM	NEC/Raytheon
R54A	Raytheon (South of 101)	57.18	14.50	42.68	NEC/Raytheon
R55A	Raytheon (South of 101)	47.76	15.44	32.32	NEC/Raytheon
R57A	Raytheon (South of 101)	53.71	11.71	42.00	NEC/Raytheon
R58A	Raytheon (South of 101)	53.77	15.78	37.99	NEC/Raytheon
R59A	Raytheon (South of 101)	54.69	10.68	44.01	NEC/Raytheon
R60A	Raytheon (South of 101)	56.44	18.31	38.13	NEC/Raytheon
R62A	Raytheon (South of 101)	47.59	11.61	35.98	NEC/Raytheon
R63A	Raytheon (South of 101)	58.33	20.29	38.04	NEC/Raytheon
R67A	Raytheon (South of 101)	57.58	19.02	38.56	NEC/Raytheon
R68A	Raytheon (South of 101)	57.44	19.85	37.59	NEC/Raytheon
R69A	Raytheon (South of 101)	56.22	20.70	35.52	NEC/Raytheon
R70A	Raytheon (South of 101)	57.33	20.13	37.20	NEC/Raytheon
R71A	Raytheon (South of 101)	54.53	17.87	36.66	NEC/Raytheon
R72A	Raytheon (South of 101)	56.47	20.72	35.75	NEC/Raytheon
R73A	Raytheon (South of 101)	59.19	21.42	37.77	NEC/Raytheon
R74A	Raytheon (South of 101)	57.84	19.90	37.94	NEC/Raytheon
RAY-1A	Raytheon (South of 101)	45.21	17.31	27.90	NEC/Raytheon
RE5A	Raytheon (South of 101)	56.85	20.71	36.14	NEC/Raytheon
RE7A	Raytheon (South of 101)	48.61	14.28	34.33	NEC/Raytheon
RE8A	Raytheon (South of 101)	51.66	15.56	36.10	NEC/Raytheon
RE9A	Raytheon (South of 101)	58.73	20.36	38.37	NEC/Raytheon
RE10A	Raytheon (South of 101)	58.65	20.90	37.75	NEC/Raytheon
RE11A	Raytheon (South of 101)	48.75	15.37	33.38	NEC/Raytheon
RE12A	Raytheon (South of 101)	48.64	13.73	34.91	NEC/Raytheon
RE21A	Raytheon (South of 101)	49.88	15.58	34.30	NEC/Raytheon
RE22A	Raytheon (South of 101)	49.81	16.55	33.26	NEC/Raytheon

Table B-2
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 MEW Regional Groundwater Remediation Program
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Well Name	Owner	TOC Elevation (ft msl)	Depth to Water (feet BTOC)	Groundwater Elevation (ft msl)	Measured By
A/A1 Zone					
RE23A	Raytheon (South of 101)	53.66	19.24	34.42	NEC/Raytheon
RE24A	Raytheon (South of 101)	55.24	25.61	29.63	NEC/Raytheon
RE25A	Raytheon (South of 101)	57.00	19.62	37.38	NEC/Raytheon
RH1A	Raytheon (South of 101)	62.39	NM	NM	NEC/Raytheon
EX1	Siltec (South of 101)	41.61	21.27	20.34	Vishay/GeoMatrix
EX2	Siltec (South of 101)	41.50	16.07	25.43	Vishay/GeoMatrix
EX3	Siltec (South of 101)	41.47	15.91	25.56	Vishay/GeoMatrix
EX4	Siltec (South of 101)	41.07	15.39	25.68	Vishay/GeoMatrix
GSF1A	Siltec (South of 101)	39.57	11.14	28.43	Vishay/GeoMatrix
SIL1A	Siltec (South of 101)	44.01	12.88	31.13	Vishay/GeoMatrix
SIL2A	Siltec (South of 101)	43.42	12.29	31.13	Vishay/GeoMatrix
SIL4A	Siltec (South of 101)	44.15	12.43	31.72	Vishay/GeoMatrix
SIL5A	Siltec (South of 101)	45.15	11.79	33.36	Vishay/GeoMatrix
SIL8A	Siltec (South of 101)	44.41	12.85	31.56	Vishay/GeoMatrix
SIL9A	Siltec (South of 101)	41.21	11.11	30.10	Vishay/GeoMatrix
SIL10A	Siltec (South of 101)	41.99	11.33	30.66	Vishay/GeoMatrix
SIL11A	Siltec (South of 101)	42.66	11.57	31.09	Vishay/GeoMatrix
SIL12A	Siltec (South of 101)	43.25	12.20	31.05	Vishay/GeoMatrix
SIL13A	Siltec (South of 101)	43.50	12.99	30.51	Vishay/GeoMatrix
SIL14A	Siltec (South of 101)	43.07	12.71	30.36	Vishay/GeoMatrix
SIL15A	Siltec (South of 101)	42.17	11.54	30.63	Vishay/GeoMatrix
SIL16A	Siltec (South of 101)	43.51	12.54	30.97	Vishay/GeoMatrix
SIL17A	Siltec (South of 101)	43.43	12.55	30.88	Vishay/GeoMatrix
C-2	Sobrato (South of 101)	63.05	17.51	45.54	SMI
C-3	Sobrato (South of 101)	58.14	12.71	45.43	SMI
EW-1	Sobrato (South of 101)	57.39	16.67	40.72	SMI
EW-2	Sobrato (South of 101)	60.04	14.45	45.59	SMI
EW-3	Sobrato (South of 101)	59.55	14.26	45.29	SMI
EW-4	Sobrato (South of 101)	60.83	15.19	45.64	SMI
ME1A	Sobrato (South of 101)	58.00	12.78	45.22	NEC/Raytheon
SO-1	Sobrato (South of 101)	63.35	17.71	45.64	SMI
SO-2	Sobrato (South of 101)	60.96	15.38	45.58	SMI
SO-4	Sobrato (South of 101)	58.40	12.63	45.77	SMI
SOPZ-1	Sobrato (South of 101)	62.30	16.51	45.79	SMI
SOPZ-2	Sobrato (South of 101)	60.66	14.96	45.70	SMI
SOPZ-3	Sobrato (South of 101)	61.78	16.23	45.55	SMI
EA1-1	U.S. Navy (North of 101)	15.60	14.17	1.43	Navy
EA1-2	U.S. Navy (North of 101)	15.26	6.89	8.37	Navy
EA1-3	U.S. Navy (North of 101)	14.61	8.41	6.20	Navy
EA1-4	U.S. Navy (North of 101)	10.35	7.29	3.06	Navy
EA1-5	U.S. Navy (North of 101)	13.09	4.85	8.24	Navy
EA1-6	U.S. Navy (North of 101)	12.23	2.79	9.44	Navy
ERM-1	U.S. Navy (North of 101)	29.61	14.07	15.54	Navy
ERM-2	U.S. Navy (North of 101)	28.46	6.15	22.31	Navy
ERM-3	U.S. Navy (North of 101)	29.34	6.54	22.80	Navy
PIC-1	U.S. Navy (North of 101)	18.09	6.99	11.10	Navy

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Well Name	Owner	TOC Elevation (ft msl)	Depth to Water (feet BTOC)	Groundwater Elevation (ft msl)	Measured By
A/A1 Zone					
PIC-2	U.S. Navy (North of 101)	17.64	7.15	10.49	Navy
PIC-3	U.S. Navy (North of 101)	17.56	7.05	10.51	Navy
PIC-4	U.S. Navy (North of 101)	17.83	7.29	10.54	Navy
PIC-5	U.S. Navy (North of 101)	18.10	7.23	10.87	Navy
PIC-6	U.S. Navy (North of 101)	17.81	5.99	11.82	Navy
PIC-7	U.S. Navy (North of 101)	17.71	5.92	11.79	Navy
PIC-8	U.S. Navy (North of 101)	18.08	6.15	11.93	Navy
PIC-9	U.S. Navy (North of 101)	18.51	6.54	11.97	Navy
PIC-10	U.S. Navy (North of 101)	18.77	6.80	11.97	Navy
PIC-11	U.S. Navy (North of 101)	17.91	5.97	11.94	Navy
PIC-12	U.S. Navy (North of 101)	18.54	6.41	12.13	Navy
PIC-13	U.S. Navy (North of 101)	18.70	6.59	12.11	Navy
PIC-14	U.S. Navy (North of 101)	19.01	6.82	12.19	Navy
PIC-15	U.S. Navy (North of 101)	19.16	6.71	12.45	Navy
PIC-20	U.S. Navy (North of 101)	17.24	6.91	10.33	Navy
PIC-21	U.S. Navy (North of 101)	17.49	6.98	10.51	Navy
PIC-22	U.S. Navy (North of 101)	17.48	6.96	10.52	Navy
PIC-23	U.S. Navy (North of 101)	17.56	7.02	10.54	Navy
PIC-24	U.S. Navy (North of 101)	17.81	5.92	11.89	Navy
PIC-25	U.S. Navy (North of 101)	18.00	6.02	11.98	Navy
PIC-26	U.S. Navy (North of 101)	18.23	6.29	11.94	Navy
PIC-27	U.S. Navy (North of 101)	18.31	6.51	11.80	Navy
PIC-28	U.S. Navy (North of 101)	18.00	6.00	12.00	Navy
PIC-29	U.S. Navy (North of 101)	18.17	6.22	11.95	Navy
PIC-30	U.S. Navy (North of 101)	18.36	6.43	11.93	Navy
PIC-31	U.S. Navy (North of 101)	17.90	7.30	10.60	Navy
PIC-32	U.S. Navy (North of 101)	17.89	6.94	10.95	Navy
PZA1-1A	U.S. Navy (North of 101)	18.25	6.10	12.15	Navy
PZA1-1B	U.S. Navy (North of 101)	18.78	5.99	12.79	Navy
PZA1-1C	U.S. Navy (North of 101)	18.44	5.95	12.49	Navy
PZA1-1D	U.S. Navy (North of 101)	18.36	5.33	13.03	Navy
PZA1-1E	U.S. Navy (North of 101)	18.33	5.59	12.74	Navy
PZA1-2A	U.S. Navy (North of 101)	17.94	5.58	12.36	Navy
PZA1-2B	U.S. Navy (North of 101)	17.89	5.22	12.67	Navy
PZA1-2C	U.S. Navy (North of 101)	17.81	4.79	13.02	Navy
PZA1-2D	U.S. Navy (North of 101)	17.88	5.61	12.27	Navy
PZA1-3A	U.S. Navy (North of 101)	17.54	9.40	8.14	Navy
PZA1-3B	U.S. Navy (North of 101)	17.49	9.00	8.49	Navy
PZA1-3C	U.S. Navy (North of 101)	17.39	8.75	8.64	Navy
PZA1-3D	U.S. Navy (North of 101)	17.20	6.96	10.24	Navy
PZA1-4B	U.S. Navy (North of 101)	13.12	8.89	4.23	Navy
PZA1-4C	U.S. Navy (North of 101)	12.87	8.35	4.52	Navy
PZA1-4D	U.S. Navy (North of 101)	12.61	8.81	3.80	Navy
PZA1-5A	U.S. Navy (North of 101)	16.10	10.98	5.12	Navy
PZA1-5B	U.S. Navy (North of 101)	15.93	10.93	5.00	Navy
PZA1-5C	U.S. Navy (North of 101)	14.88	9.62	5.26	Navy
PZA1-5D	U.S. Navy (North of 101)	15.69	10.73	4.96	Navy

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Well Name	Owner	TOC Elevation (ft msl)	Depth to Water (feet BTOC)	Groundwater Elevation (ft msl)	Measured By
A/A1 Zone					
PZA1-6A	U.S. Navy (North of 101)	15.34	7.26	8.08	Navy
PZA1-6B	U.S. Navy (North of 101)	15.19	7.08	8.11	Navy
PZA1-6C	U.S. Navy (North of 101)	14.89	7.35	7.54	Navy
PZA2-1A	U.S. Navy (North of 101)	17.14	14.03	3.11	Navy
PZA2-1B	U.S. Navy (North of 101)	17.02	13.12	3.90	Navy
PZA2-1C	U.S. Navy (North of 101)	17.34	9.81	7.53	Navy
PZA2-1D	U.S. Navy (North of 101)	16.91	8.17	8.74	Navy
PZA2-2A	U.S. Navy (North of 101)	15.82	13.51	2.31	Navy
PZA2-2B	U.S. Navy (North of 101)	15.02	9.67	5.35	Navy
PZA2-2C	U.S. Navy (North of 101)	15.19	8.91	6.28	Navy
PZA2-2D	U.S. Navy (North of 101)	13.72	9.59	4.13	Navy
PZA2-4E	U.S. Navy (North of 101)	13.04	10.98	2.06	Navy
PZNX-2	U.S. Navy (North of 101)	19.21	5.20	14.01	Navy
UST85-MW02	U.S. Navy (North of 101)	19.04	5.70	13.34	Navy
W8-1	U.S. Navy (North of 101)	7.55	8.25	-0.70	Navy
W8-4	U.S. Navy (North of 101)	6.24	6.90	-0.66	Navy
W8-6	U.S. Navy (North of 101)	6.15	7.07	-0.92	Navy
W8-8	U.S. Navy (North of 101)	5.10	6.82	-1.72	Navy
W9-1	U.S. Navy (North of 101)	17.98	9.10	8.88	Navy
W9-2	U.S. Navy (North of 101)	19.02	8.26	10.76	Navy
W9-7	U.S. Navy (North of 101)	18.05	7.12	10.93	Navy
W9-10	U.S. Navy (North of 101)	11.91	6.66	5.25	Navy
W9-16	U.S. Navy (North of 101)	22.42	6.25	16.17	Navy
W9-18	U.S. Navy (North of 101)	17.99	4.88	13.11	Navy
W9-19	U.S. Navy (North of 101)	22.20	7.05	15.15	Navy
W9-23	U.S. Navy (North of 101)	15.59	6.33	9.26	Navy
W9-24	U.S. Navy (North of 101)	13.09	8.22	4.87	Navy
W9-26	U.S. Navy (North of 101)	13.33	7.69	5.64	Navy
W9-29	U.S. Navy (North of 101)	16.54	3.61	12.93	Navy
W9-30	U.S. Navy (North of 101)	19.83	5.15	14.68	Navy
W9-31	U.S. Navy (North of 101)	16.16	7.95	8.21	Navy
W9-35	U.S. Navy (North of 101)	16.63	5.98	10.65	Navy
W9-37	U.S. Navy (North of 101)	20.46	5.57	14.89	Navy
W9-38	U.S. Navy (North of 101)	22.59	7.02	15.57	Weiss
W9-43	U.S. Navy (North of 101)	15.76	10.40	5.36	Navy
W9-44	U.S. Navy (North of 101)	20.39	6.41	13.98	Navy
W9-45	U.S. Navy (North of 101)	16.54	4.74	11.80	Navy
W9-47	U.S. Navy (North of 101)	18.13	8.94	9.19	Navy
W9SC-1	U.S. Navy (North of 101)	16.91	8.49	8.42	Navy
W9SC-2	U.S. Navy (North of 101)	16.87	8.62	8.25	Navy
W9SC-4	U.S. Navy (North of 101)	16.67	8.30	8.37	Navy
W9SC-5	U.S. Navy (North of 101)	16.49	8.32	8.17	Navy
W9SC-7	U.S. Navy (North of 101)	16.57	9.07	7.50	Navy
W9SC-11	U.S. Navy (North of 101)	18.26	8.95	9.31	Navy
W9SC-13	U.S. Navy (North of 101)	18.16	8.65	9.51	Navy
W9SC-14	U.S. Navy (North of 101)	18.93	4.86	14.07	Navy
W9SC-16	U.S. Navy (North of 101)	19.12	4.84	14.28	Navy

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A/A1 Zone					
W9SC-17	U.S. Navy (North of 101)	21.14	6.80	14.34	Navy
W9SC-18	U.S. Navy (North of 101)	16.67	8.30	8.37	Navy
W9SC-21	U.S. Navy (North of 101)	22.08	6.20	15.88	Navy
W12-20	U.S. Navy (North of 101)	7.76	8.32	-0.56	Navy
W12-6	U.S. Navy (North of 101)	7.08	7.11	-0.03	Navy
W14-2	U.S. Navy (North of 101)	28.52	6.63	21.89	Navy
W14-3	U.S. Navy (North of 101)	30.15	6.73	23.42	Navy
W14-4	U.S. Navy (North of 101)	27.75	5.66	22.09	Navy
W14-10	U.S. Navy (North of 101)	29.58	6.50	23.08	Navy
W14-11	U.S. Navy (North of 101)	29.07	6.74	22.33	Navy
W14-12	U.S. Navy (North of 101)	29.71	6.81	22.90	Navy
W14-13	U.S. Navy (North of 101)	28.80	6.84	21.96	Navy
W20-01	U.S. Navy (North of 101)	9.81	7.19	2.62	Navy
W29-1	U.S. Navy (North of 101)	13.83	8.96	4.87	Navy
W29-2	U.S. Navy (North of 101)	16.01	8.91	7.10	Navy
W29-3	U.S. Navy (North of 101)	16.33	8.34	7.99	Navy
W29-4	U.S. Navy (North of 101)	18.29	8.36	9.93	Navy
W29-5	U.S. Navy (North of 101)	14.82	9.01	5.81	Navy
W56-1	U.S. Navy (North of 101)	17.79	7.73	10.06	Navy
W56-2	U.S. Navy (North of 101)	17.66	6.62	11.04	Navy
W58-1	U.S. Navy (North of 101)	31.03	7.07	23.96	Navy
W60-2	U.S. Navy (North of 101)	31.00	9.65	21.35	Navy
W60-1	U.S. Navy (North of 101)	30.55	9.84	20.71	Navy
W89-1	U.S. Navy (North of 101)	33.57	11.28	22.29	Navy
W89-2	U.S. Navy (North of 101)	30.98	8.86	22.12	Navy
W89-03A-R	U.S. Navy (North of 101)	33.23	6.18	27.05	Weiss
W89-04A-R	U.S. Navy (North of 101)	33.25	4.82	28.43	Weiss
W89-5	U.S. Navy (North of 101)	25.61	6.96	18.65	Navy
W89-6	U.S. Navy (North of 101)	24.40	5.38	19.02	Navy
W89-7	U.S. Navy (North of 101)	24.15	6.45	17.70	Navy
W89-8	U.S. Navy (North of 101)	21.77	7.79	13.98	Navy
W89-9	U.S. Navy (North of 101)	21.78	9.85	11.93	Navy
W89-10	U.S. Navy (North of 101)	15.99	5.10	10.89	Navy
WIC-1	U.S. Navy (North of 101)	18.20	6.32	11.88	Navy
WIC-3	U.S. Navy (North of 101)	17.94	7.19	10.75	Navy
WIC-5	U.S. Navy (North of 101)	18.07	6.18	11.89	Navy
WIC-6	U.S. Navy (North of 101)	18.04	6.10	11.94	Navy
WIC-7	U.S. Navy (North of 101)	17.87	5.95	11.92	Navy
WIC-8	U.S. Navy (North of 101)	18.07	6.25	11.82	Navy
WIC-9	U.S. Navy (North of 101)	17.89	7.16	10.73	Navy
WIC-10	U.S. Navy (North of 101)	17.94	7.36	10.58	Navy
WIC-11	U.S. Navy (North of 101)	17.84	7.24	10.60	Navy
WIC-12	U.S. Navy (North of 101)	17.95	7.32	10.63	Navy
WNB-1	U.S. Navy (North of 101)	4.79	7.81	-3.02	Navy
WNB-7	U.S. Navy (North of 101)	3.22	5.43	-2.21	Navy
WNB-8	U.S. Navy (North of 101)	4.14	6.21	-2.07	Navy
WNB-26	U.S. Navy (North of 101)	2.20	4.29	-2.09	Navy

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A/A1 Zone					
WNX-1	U.S. Navy (North of 101)	18.85	5.30	13.55	Navy
WNX-2	U.S. Navy (North of 101)	18.80	5.40	13.40	Navy
WNX-3	U.S. Navy (North of 101)	18.64	4.33	14.31	Navy
WNX-4	U.S. Navy (North of 101)	19.33	5.36	13.97	Navy
WSI-1	U.S. Navy (North of 101)	32.62	7.62	25.00	Navy
WSI-2	U.S. Navy (North of 101)	31.12	7.56	23.56	Navy
WSI-3	U.S. Navy (North of 101)	29.67	9.83	19.84	Navy
WSI-4	U.S. Navy (North of 101)	7.09	8.25	-1.16	Navy
WT14-1	U.S. Navy (North of 101)	24.80	6.10	18.70	Navy
WT41A-1	U.S. Navy (North of 101)	23.38	7.24	16.14	Navy
WT87-1	U.S. Navy (North of 101)	21.19	7.20	13.99	Navy
WU4-1	U.S. Navy (North of 101)	34.97	13.12	21.85	Navy
WU4-3	U.S. Navy (North of 101)	25.21	8.17	17.04	Navy
WU4-8	U.S. Navy (North of 101)	15.91	10.91	5.00	Navy
WU4-10	U.S. Navy (North of 101)	16.77	6.09	10.68	Navy
WU4-14	U.S. Navy (North of 101)	12.80	8.90	3.90	Navy
WU4-16	U.S. Navy (North of 101)	13.89	6.14	7.75	Navy
WU4-17	U.S. Navy (North of 101)	15.62	7.28	8.34	Navy
WU4-18	U.S. Navy (North of 101)	8.17	6.96	1.21	Navy
WU4-21	U.S. Navy (North of 101)	14.86	10.22	4.64	Navy
WU4-24	U.S. Navy (North of 101)	16.11	8.40	7.71	Navy
WU4-25	U.S. Navy (North of 101)	16.68	6.10	10.58	Navy
WWR-1	U.S. Navy (North of 101)	17.98	5.50	12.48	Navy
WWR-2	U.S. Navy (North of 101)	20.38	5.09	15.29	Navy
WWR-3	U.S. Navy (North of 101)	21.57	5.00	16.57	Navy
A2/B1 Zone					
4B1	Fairchild (North of 101)	27.45	8.92	18.53	Weiss
46B1	Fairchild (North of 101)	22.13	6.19	15.94	Weiss
47B1	Fairchild (North of 101)	21.51	5.65	15.86	Weiss
48B1	Fairchild (North of 101)	28.07	8.08	19.99	Weiss
49B1	Fairchild (North of 101)	27.89	6.48	21.41	Weiss
50B1	Fairchild (North of 101)	27.79	7.43	20.36	Weiss
68B1	Fairchild (North of 101)	29.85	6.70	23.15	Weiss
78B1	Fairchild (North of 101)	20.64	12.88	7.76	Weiss
79B1	Fairchild (North of 101)	17.08	7.63	9.45	Weiss
80B1	Fairchild (North of 101)	15.40	16.13	-0.73	Weiss
81B1	Fairchild (North of 101)	9.20	8.33	0.87	Weiss
83B1	Fairchild (North of 101)	5.80	7.64	-1.84	Weiss
84B1	Fairchild (North of 101)	6.50	8.12	-1.62	Weiss
85B1	Fairchild (North of 101)	6.70	7.62	-0.92	Weiss
86B1	Fairchild (North of 101)	15.50	7.13	8.37	Weiss
87B1	Fairchild (North of 101)	25.10	5.38	19.72	Weiss
111B1	Fairchild (North of 101)	20.49	12.51	7.98	Weiss
138B1	Fairchild (North of 101)	11.54	9.84	1.70	Weiss
139B1	Fairchild (North of 101)	7.06	4.84	2.22	Weiss
148B1	Fairchild (North of 101)	26.08	11.50	14.58	Weiss

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 MEW Regional Groundwater Remediation Program
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Well Name	Owner	TOC Elevation (ft msl)	Depth to Water (feet BTOC)	Groundwater Elevation (ft msl)	Measured By
A2/B1 Zone					
149B1	Fairchild (North of 101)	25.16	9.74	15.42	Weiss
150B1	Fairchild (North of 101)	24.96	9.55	15.41	Weiss
151B1	Fairchild (North of 101)	20.93	7.21	13.72	Weiss
152B1	Fairchild (North of 101)	20.63	8.62	12.01	Weiss
153B1	Fairchild (North of 101)	13.96	9.51	4.45	Weiss
154B1	Fairchild (North of 101)	12.78	8.54	4.24	Weiss
155B1	Fairchild (North of 101)	19.74	8.48	11.26	Weiss
2B1	Fairchild (South of 101)	43.43	15.35	28.08	Weiss
3B1	Fairchild (South of 101)	40.36	36.15	4.21	Weiss
7B1	Fairchild (South of 101)	48.61	15.60	33.01	Weiss
8B1	Fairchild (South of 101)	40.96	9.35	31.61	Weiss
12B1	Fairchild (South of 101)	36.41	10.52	25.89	Weiss
13B1	Fairchild (South of 101)	34.80	10.20	24.60	Weiss
14B1	Fairchild (South of 101)	35.68	7.39	28.29	Weiss
20B1	Fairchild (South of 101)	43.89	11.50	32.39	Weiss
21B1	Fairchild (South of 101)	37.93	13.30	24.63	Weiss
22B1	Fairchild (South of 101)	58.40	16.53	41.87	Weiss
25B1	Fairchild (South of 101)	46.75	14.48	32.27	Weiss
26B1	Fairchild (South of 101)	52.61	12.82	39.79	Weiss
32B1	Fairchild (South of 101)	38.164	13.47	24.69	Weiss
33B1	Fairchild (South of 101)	46.30	12.90	33.40	Weiss
56B1	Fairchild (South of 101)	42.14	10.39	31.75	Weiss
60B1	Fairchild (South of 101)	39.64	17.92	21.72	Weiss
67B1	Fairchild (South of 101)	36.93	9.20	27.73	Weiss
69B1	Fairchild (South of 101)	42.62	12.30	30.32	Weiss
74B1	Fairchild (South of 101)	51.84	9.97	41.87	Weiss
77B1	Fairchild (South of 101)	40.182	12.78	27.40	Weiss
91B1	Fairchild (South of 101)	48.44	15.20	33.24	Weiss
92B1	Fairchild (South of 101)	46.99	14.16	32.83	Weiss
93B1	Fairchild (South of 101)	55.27	13.62	41.65	Weiss
94B1	Fairchild (South of 101)	47.99	14.15	33.84	Weiss
95B1	Fairchild (South of 101)	56.95	15.56	41.39	Weiss
97B1	Fairchild (South of 101)	49.16	16.05	33.11	Weiss
98B1	Fairchild (South of 101)	54.10	14.53	39.57	Weiss
99B1	Fairchild (South of 101)	49.11	16.08	33.03	Weiss
101B1	Fairchild (South of 101)	54.92	13.40	41.52	Weiss
103B1	Fairchild (South of 101)	55.20	14.15	41.05	Weiss
104B1	Fairchild (South of 101)	41.25	13.30	27.95	Weiss
105B1	Fairchild (South of 101)	40.88	9.80	31.08	Weiss
109B1	Fairchild (South of 101)	41.15	13.15	28.00	Weiss
110B1	Fairchild (South of 101)	53.68	15.62	38.06	Weiss
112B1	Fairchild (South of 101)	46.00	12.12	33.88	Weiss
114B1	Fairchild (South of 101)	46.90	12.75	34.15	Weiss
115B1	Fairchild (South of 101)	38.76	13.83	24.93	Weiss
117B1	Fairchild (South of 101)	53.80	17.23	36.57	Weiss
119B1	Fairchild (South of 101)	42.96	11.57	31.39	Weiss

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 MEW Regional Groundwater Remediation Program
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Well Name	Owner	TOC Elevation (ft msl)	Depth to Water (feet BTOC)	Groundwater Elevation (ft msl)	Measured By
A2/B1 Zone					
120B1	Fairchild (South of 101)	60.10	17.10	43.00	Weiss
122B1	Fairchild (South of 101)	59.53	17.23	42.30	Weiss
124B1	Fairchild (South of 101)	46.91	13.22	33.69	Weiss
140B1	Fairchild (South of 101)	48.91	11.93	36.98	Weiss
143B1	Fairchild (South of 101)	39.287	12.78	26.51	Weiss
144B1	Fairchild (South of 101)	55.53	13.65	41.88	Weiss
145B1	Fairchild (South of 101)	54.00	16.05	37.95	Weiss
147B1	Fairchild (South of 101)	37.82	12.51	25.31	Weiss
156B1	Fairchild (South of 101)	50.91	13.37	37.54	Weiss
RW-1(B1)	Fairchild (South of 101)	52.40	15.20	37.20	Weiss
RW-2(B1)	Fairchild (South of 101)	48.18	12.75	35.43	Weiss
RW-3(B1)	Fairchild (South of 101)	43.28	11.19	32.09	Weiss
RW-4(B1)	Fairchild (South of 101)	42.61	14.41	28.20	Weiss
RW-5(B1)	Fairchild (South of 101)	37.87	13.73	24.14	Weiss
RW-7(B1)	Fairchild (South of 101)	36.29	31.06	5.23	Weiss
RW-10(B1)	Fairchild (South of 101)	52.40	22.75	29.65	Weiss
RW-11(B1)	Fairchild (South of 101)	50.43	18.98	31.45	Weiss
RW-12(B1)	Fairchild (South of 101)	40.51	19.38	21.13	Weiss
I9B1	Intel (South of 101)	70.92	19.59	51.33	Intel/Weiss
IE23B1	Intel (South of 101)	69.21	19.64	49.57	Intel/Weiss
IE24B1	Intel (South of 101)	60.62	16.65	43.97	Intel/Weiss
IM1B(1)	Intel (South of 101)	NA	13.60	NA	Intel/Weiss
IM2B(1)	Intel (South of 101)	56.45	15.47	40.98	Intel/Weiss
IM3B(1)	Intel (South of 101)	55.98	14.17	41.81	Intel/Weiss
IM4B(1)	Intel (South of 101)	59.93	17.15	42.78	Intel/Weiss
IM5B(1)	Intel (South of 101)	60.16	18.37	41.79	Intel/Weiss
IM6B(1)	Intel (South of 101)	58.99	15.26	43.73	Intel/Weiss
IM7B(1)	Intel (South of 101)	58.65	12.62	46.03	Intel/Weiss
IM8B(1)	Intel (South of 101)	63.95	18.39	45.56	Intel/Weiss
IM9B(1)	Intel (South of 101)	65.04	19.44	45.60	Intel/Weiss
IM19B(1)	Intel (South of 101)	63.72	18.52	45.20	Intel/Weiss
IOW1B1	Intel (South of 101)	59.84	13.63	46.21	Intel/Weiss
IOW2B1	Intel (South of 101)	63.20	18.14	45.06	Intel/Weiss
IOW3B1	Intel (South of 101)	58.75	15.78	42.97	Intel/Weiss
IOW4B1	Intel (South of 101)	59.84	16.46	43.38	Intel/Weiss
PW-4	Intel (South of 101)	58.96	15.08	43.88	Intel/Weiss
PW-5	Intel (South of 101)	60.23	16.46	43.77	Intel/Weiss
W-1B	Intel (South of 101)	59.02	14.75	44.27	Intel/Weiss
REG-5B(1)	MEW RGRP (North of 101)	33.20	14.14	19.06	Weiss
REG-6B(1)	MEW RGRP (North of 101)	24.65	28.62	-3.97	Weiss
REG-7B(1)	MEW RGRP (North of 101)	24.32	14.09	10.23	Weiss
REG-8B(1)	MEW RGRP (North of 101)	20.03	47.75	-27.72	Weiss
REG-9B(1)	MEW RGRP (North of 101)	13.60	23.59	-9.99	Weiss
REG-10B(1)	MEW RGRP (North of 101)	19.64	10.88	8.76	Weiss
REG-12B(1)	MEW RGRP (North of 101)	32.38	21.64	10.74	Weiss
ME1B1	MEW RGRP (South of 101)	58.00	9.85	48.15	NEC/Raytheon

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Well Name	Owner	TOC Elevation (ft msl)	Depth to Water (feet BTOC)	Groundwater Elevation (ft msl)	Measured By
A2/B1 Zone					
ME2B1	MEW RGRP (South of 101)	36.57	6.42	30.15	Weiss
ME3B1	MEW RGRP (South of 101)	37.34	5.02	32.32	Weiss
NEC8B1	MEW RGRP (South of 101)	42.68	7.65	35.03	Weiss
NEC14B1	MEW RGRP (South of 101)	46.82	7.60	39.22	Weiss
NEC18B1	MEW RGRP (South of 101)	59.87	13.60	46.27	Weiss
REG-1B(1)	MEW RGRP (South of 101)	38.15	17.00	21.15	Weiss
REG-2B(1)	MEW RGRP (South of 101)	35.15	25.84	9.31	Weiss
REG-3B(1)	MEW RGRP (South of 101)	34.17	12.71	21.46	Weiss
REG-4B(1)	MEW RGRP (South of 101)	37.70	21.15	16.55	Weiss
REG-11B(1)	MEW RGRP (South of 101)	35.65	11.08	24.57	Weiss
REG-MW-1B(1)	MEW RGRP (South of 101)	40.81	13.72	27.09	Weiss
REG-MW-2B(1)	MEW RGRP (South of 101)	41.43	13.85	27.58	Weiss
RW-9(B1)R	MEW RGRP (South of 101)	38.59	35.34	3.25	Weiss
10R07A2	NASA (North of 101)	10.70	9.23	1.47	NASA
14D31A2	NASA (North of 101)	8.02	6.78	1.24	NASA
15A12A2	NASA (North of 101)	16.94	7.71	9.23	NASA
15A15A2	NASA (North of 101)	12.35	9.64	2.71	NASA
15B17A2	NASA (North of 101)	14.83	6.49	8.34	NASA
15B18A2	NASA (North of 101)	15.20	6.49	8.71	NASA
R1B1	Raytheon (South of 101)	51.87	12.74	39.13	NEC/Raytheon
R3B1	Raytheon (South of 101)	47.16	13.34	33.82	NEC/Raytheon
R5B1	Raytheon (South of 101)	47.44	14.21	33.23	NEC/Raytheon
R6B1	Raytheon (South of 101)	46.00	8.42	37.58	NEC/Raytheon
R7B1	Raytheon (South of 101)	56.47	18.29	38.18	NEC/Raytheon
R9B1	Raytheon (South of 101)	69.92	19.55	50.37	NEC/Raytheon
R13B1	Raytheon (South of 101)	35.00	NM	NM	NEC/Raytheon
R14B1	Raytheon (South of 101)	62.00	16.30	45.70	NEC/Raytheon
R16B1	Raytheon (South of 101)	47.00	7.17	39.83	NEC/Raytheon
R21B1	Raytheon (South of 101)	73.00	22.77	50.23	NEC/Raytheon
R22B1	Raytheon (South of 101)	62.73	14.40	48.33	NEC/Raytheon
R36B1	Raytheon (South of 101)	58.75	13.66	45.09	NEC/Raytheon
R42B1	Raytheon (South of 101)	56.61	11.16	45.45	NEC/Raytheon
R46B1	Raytheon (South of 101)	58.00	13.20	44.80	NEC/Raytheon
R60B1	Raytheon (South of 101)	58.01	8.26	49.75	NEC/Raytheon
R63B1	Raytheon (South of 101)	56.52	18.48	38.04	NEC/Raytheon
R64B1	Raytheon (South of 101)	56.65	10.26	46.39	NEC/Raytheon
R66B1	Raytheon (South of 101)	48.72	13.38	35.34	NEC/Raytheon
R67B1	Raytheon (South of 101)	49.06	13.67	35.39	NEC/Raytheon
R68B1	Raytheon (South of 101)	56.96	19.40	37.56	NEC/Raytheon
R69B1	Raytheon (South of 101)	57.28	19.33	37.95	NEC/Raytheon
R70B1	Raytheon (South of 101)	56.25	18.13	38.12	NEC/Raytheon
RAY-1B1	Raytheon (South of 101)	45.77	14.33	31.44	NEC/Raytheon
RE3B1	Raytheon (South of 101)	48.71	13.46	35.25	NEC/Raytheon
RP16B	Raytheon (South of 101)	58.63	10.98	47.65	NEC/Raytheon
RP19B	Raytheon (South of 101)	56.47	18.25	38.22	NEC/Raytheon
RP21B	Raytheon (South of 101)	53.34	15.35	37.99	NEC/Raytheon

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Well Name	Owner	TOC Elevation (ft msl)	Depth to Water (feet BTOC)	Groundwater Elevation (ft msl)	Measured By
A2/B1 Zone					
RP22B	Raytheon (South of 101)	64.07	17.00	47.07	NEC/Raytheon
RP23B	Raytheon (South of 101)	54.67	16.73	37.94	NEC/Raytheon
RP24B	Raytheon (South of 101)	54.99	17.25	37.74	NEC/Raytheon
RP41B	Raytheon (South of 101)	57.35	19.15	38.20	NEC/Raytheon
RP42B	Raytheon (South of 101)	61.70	21.62	40.08	NEC/Raytheon
RP43B	Raytheon (South of 101)	57.28	19.51	37.77	NEC/Raytheon
GSF1B1	Siltec (South of 101)	39.61	25.22	14.39	Vishay/GeoMatrix
RW-13B(1)	Silva (South of 101)	53.20	12.60	40.60	Weiss
SO3-B1	Sobrato (South of 101)	60.87	11.58	49.29	SMI
EA2-1	U.S. Navy (North of 101)	14.38	24.20	-9.82	Navy
EA2-2	U.S. Navy (North of 101)	14.08	19.99	-5.91	Navy
EA2-3	U.S. Navy (North of 101)	13.64	10.97	2.67	Navy
PIC-16	U.S. Navy (North of 101)	17.90	6.80	11.10	Navy
PIC-17	U.S. Navy (North of 101)	18.56	7.53	11.03	Navy
PIC-18	U.S. Navy (North of 101)	17.62	6.75	10.87	Navy
PIC-19	U.S. Navy (North of 101)	18.28	7.23	11.05	Navy
W8-2	U.S. Navy (North of 101)	6.91	7.82	-0.91	Navy
W8-11	U.S. Navy (North of 101)	5.96	6.69	-0.73	Navy
W9-8	U.S. Navy (North of 101)	20.13	7.55	12.58	Navy
W9-9	U.S. Navy (North of 101)	17.58	7.30	10.28	Navy
W9-13	U.S. Navy (North of 101)	18.90	7.35	11.55	Navy
W9-14	U.S. Navy (North of 101)	19.23	5.93	13.30	Navy
W9-17	U.S. Navy (North of 101)	19.31	5.00	14.31	Navy
W9-20	U.S. Navy (North of 101)	16.44	5.48	10.96	Navy
W9-21	U.S. Navy (North of 101)	15.72	3.80	11.92	Navy
W9-22	U.S. Navy (North of 101)	15.21	8.30	6.91	Navy
W9-25	U.S. Navy (North of 101)	15.26	6.61	8.65	Navy
W9-27	U.S. Navy (North of 101)	15.97	9.55	6.42	Navy
W9-28	U.S. Navy (North of 101)	16.06	8.85	7.21	Navy
W9-33	U.S. Navy (North of 101)	18.33	6.00	12.33	Navy
W9-34	U.S. Navy (North of 101)	18.45	6.65	11.80	Navy
W9-36	U.S. Navy (North of 101)	20.09	7.53	12.56	Navy
W9-41	U.S. Navy (North of 101)	22.56	7.47	15.09	Weiss
W9-42	U.S. Navy (North of 101)	16.56	3.30	13.26	Navy
W9SC-3	U.S. Navy (North of 101)	16.79	8.57	8.22	Navy
W9SC-8	U.S. Navy (North of 101)	16.47	9.05	7.42	Navy
W9SC-12	U.S. Navy (North of 101)	18.40	8.44	9.96	Navy
W9SC-15	U.S. Navy (North of 101)	19.06	5.11	13.95	Navy
W9SC-20	U.S. Navy (North of 101)	22.20	7.05	15.15	Navy
W14-1	U.S. Navy (North of 101)	28.71	5.43	23.28	Navy
W14-5	U.S. Navy (North of 101)	29.94	5.96	23.98	Navy
W14-6	U.S. Navy (North of 101)	28.21	4.81	23.40	Navy
W29-7	U.S. Navy (North of 101)	14.44	9.60	4.84	Navy
W29-8	U.S. Navy (North of 101)	16.81	9.51	7.30	Navy
W89-11	U.S. Navy (North of 101)	33.26	10.02	23.24	Navy
W89-12	U.S. Navy (North of 101)	31.23	7.76	23.47	Navy

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A2/B1 Zone					
W89-13B1-R	U.S. Navy (North of 101)	33.19	5.65	27.54	Weiss
W89-14	U.S. Navy (North of 101)	25.58	6.28	19.30	Navy
WIC-2	U.S. Navy (North of 101)	18.19	7.21	10.98	Navy
WIC-4	U.S. Navy (North of 101)	17.55	6.73	10.82	Navy
WNB-10	U.S. Navy (North of 101)	4.77	7.84	-3.07	Navy
WNB-11	U.S. Navy (North of 101)	1.59	4.68	-3.09	Navy
WNB-12	U.S. Navy (North of 101)	3.08	5.40	-2.32	Navy
WNB-13	U.S. Navy (North of 101)	1.37	4.33	-2.96	Navy
WNB-14	U.S. Navy (North of 101)	12.35	6.41	5.94	Navy
WU4-2	U.S. Navy (North of 101)	32.55	12.60	19.95	Navy
WU4-4	U.S. Navy (North of 101)	25.21	9.20	16.01	Navy
WU4-5	U.S. Navy (North of 101)	33.88	11.06	22.82	Navy
WU4-6	U.S. Navy (North of 101)	28.46	9.42	19.04	Weiss
WU4-7	U.S. Navy (North of 101)	24.00	8.27	15.73	Navy
WU4-9	U.S. Navy (North of 101)	15.87	10.76	5.11	Navy
WU4-11	U.S. Navy (North of 101)	16.66	5.56	11.10	Navy
WU4-12	U.S. Navy (North of 101)	21.88	7.26	14.62	Navy
WU4-13	U.S. Navy (North of 101)	22.68	10.90	11.78	Navy
WU4-15	U.S. Navy (North of 101)	12.77	7.67	5.10	Navy
WU4-19	U.S. Navy (North of 101)	11.39	8.60	2.79	Navy
B2 Zone					
17B2	Fairchild (North of 101)	27.96	7.39	20.57	Weiss
45B2	Fairchild (North of 101)	28.57	9.17	19.40	Weiss
51B2	Fairchild (North of 101)	22.07	5.52	16.55	Weiss
53B2	Fairchild (North of 101)	28.33	6.00	22.33	Weiss
54B2	Fairchild (North of 101)	28.00	5.83	22.17	Weiss
82B2	Fairchild (North of 101)	6.56	5.26	1.30	Weiss
123B2	Fairchild (North of 101)	15.46	11.22	4.24	Weiss
6B2	Fairchild (South of 101)	58.83	16.02	42.81	Weiss
9B2	Fairchild (South of 101)	54.79	18.96	35.83	Weiss
10B2	Fairchild (South of 101)	43.90	9.17	34.73	Weiss
11B2	Fairchild (South of 101)	37.19	8.23	28.96	Weiss
15B2	Fairchild (South of 101)	70.70	19.52	51.18	Weiss
16B2	Fairchild (South of 101)	47.18	10.90	36.28	Weiss
23B2	Fairchild (South of 101)	43.28	11.97	31.31	Weiss
24B2	Fairchild (South of 101)	40.47	37.86	2.61	Weiss
36B2	Fairchild (South of 101)	38.65	14.76	23.89	Weiss
37B2	Fairchild (South of 101)	52.57	9.92	42.65	Weiss
40B2	Fairchild (South of 101)	54.59	29.92	24.67	Weiss
42B2	Fairchild (South of 101)	46.61	5.21	41.40	Weiss
43B2	Fairchild (South of 101)	36.385	8.20	28.18	Weiss
62B2	Fairchild (South of 101)	34.93	7.24	27.69	Weiss
64B2(R)	Fairchild (South of 101)	35.67	7.49	28.18	Weiss
75B2	Fairchild (South of 101)	46.59	7.15	39.44	Weiss
76B2	Fairchild (South of 101)	55.12	14.10	41.02	Weiss
88B2	Fairchild (South of 101)	56.80	10.87	45.93	Weiss

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B2 Zone					
89B2	Fairchild (South of 101)	48.43	13.71	34.72	Weiss
90B2	Fairchild (South of 101)	54.18	12.97	41.21	Weiss
107B2	Fairchild (South of 101)	41.26	10.12	31.14	Weiss
108B2	Fairchild (South of 101)	41.25	10.10	31.15	Weiss
113B2	Fairchild (South of 101)	39.01	14.19	24.82	Weiss
116B2	Fairchild (South of 101)	42.14	5.65	36.49	Weiss
118B2	Fairchild (South of 101)	43.21	9.28	33.93	Weiss
125B2	Fairchild (South of 101)	46.74	9.08	37.66	Weiss
129B2	Fairchild (South of 101)	56.87	9.27	47.60	Weiss
130B2	Fairchild (South of 101)	56.77	10.13	46.64	Weiss
132B2	Fairchild (South of 101)	49.21	15.30	33.91	Weiss
134B2	Fairchild (South of 101)	47.85	11.60	36.25	Weiss
141B2	Fairchild (South of 101)	48.92	9.48	39.44	Weiss
146B2	Fairchild (South of 101)	53.58	18.30	35.28	Weiss
148B2	Fairchild (South of 101)	37.72	8.65	29.07	Weiss
RW-1(B2)	Fairchild (South of 101)	53.49	74.33	-20.84	Weiss
RW-2(B2)	Fairchild (South of 101)	48.95	20.81	28.14	Weiss
RW-3(B2)	Fairchild (South of 101)	42.96	8.23	34.73	Weiss
RW-4(B2)	Fairchild (South of 101)	41.79	24.45	17.34	Weiss
RW-5(B2)	Fairchild (South of 101)	37.98	8.41	29.57	Weiss
RW-7(B2)	Fairchild (South of 101)	38.76	11.77	26.99	Weiss
IM10B(2)	Intel (South of 101)	60.27	8.97	51.30	Intel/Weiss
IOW3B2	Intel (South of 101)	58.75	15.36	43.39	Intel/Weiss
38B2	MEW RGRP (South of 101)	44.09	40.22	3.87	Weiss
NEC8B2	MEW RGRP (South of 101)	42.50	-0.81	43.31	Weiss
NEC18B2	MEW RGRP (South of 101)	59.87	11.72	48.15	Weiss
REG-1B(2)	MEW RGRP (South of 101)	38.20	65.41	-27.21	Weiss
REG-3B(2)	MEW RGRP (South of 101)	34.84	15.60	19.24	Weiss
REG-MW-1B(2)	MEW RGRP (South of 101)	40.89	10.30	30.59	Weiss
RW-9(B2)	MEW RGRP (South of 101)	37.88	50.76	-12.88	Weiss
I-1B2	Raytheon (South of 101)	58.76	32.84	25.92	NEC/Raytheon
R5B2	Raytheon (South of 101)	50.46	0.93	49.53	NEC/Raytheon
R9B2	Raytheon (South of 101)	72.00	20.20	51.80	NEC/Raytheon
R13B2	Raytheon (South of 101)	35.00	4.13	30.87	NEC/Raytheon
R17B2	Raytheon (South of 101)	60.69	14.88	45.81	NEC/Raytheon
R27B2	Raytheon (South of 101)	51.66	5.25	46.41	NEC/Raytheon
R28B2	Raytheon (South of 101)	57.57	4.33	53.24	NEC/Raytheon
R30B2	Raytheon (South of 101)	63.00	14.02	48.98	NEC/Raytheon
R33B2	Raytheon (South of 101)	56.64	9.10	47.54	NEC/Raytheon
R39B2	Raytheon (South of 101)	51.07	4.02	47.05	NEC/Raytheon
R40B1(B2)	Raytheon (South of 101)	54.06	16.83	37.23	NEC/Raytheon
R41B2	Raytheon (South of 101)	57.00	9.77	47.23	NEC/Raytheon
R50B2	Raytheon (South of 101)	60.00	6.40	53.60	NEC/Raytheon
R52B2	Raytheon (South of 101)	64.24	14.66	49.58	NEC/Raytheon
R53B2	Raytheon (South of 101)	64.09	4.34	59.75	NEC/Raytheon
R55B2	Raytheon (South of 101)	64.21	11.68	52.53	NEC/Raytheon

Table B-2
19 September 2013 Groundwater Elevation Data
 MEW Regional Groundwater Remediation Program
 Mountain View, California

Well Name	Owner	TOC Elevation (ft msl)	Depth to Water (feet BTOC)	Groundwater Elevation (ft msl)	Measured By
B2 Zone					
R58B2	Raytheon (South of 101)	50.58	6.57	44.01	NEC/Raytheon
R59B2	Raytheon (South of 101)	51.29	1.33	49.96	NEC/Raytheon
R62B2	Raytheon (South of 101)	56.91	3.71	53.20	NEC/Raytheon
R68B2	Raytheon (South of 101)	54.91	-1.72	56.63	NEC/Raytheon
R69B2	Raytheon (South of 101)	54.85	7.70	47.15	NEC/Raytheon
R70B2	Raytheon (South of 101)	54.68	8.40	46.28	NEC/Raytheon
R71B2	Raytheon (South of 101)	57.45	6.77	50.68	NEC/Raytheon
R72B2	Raytheon (South of 101)	57.11	10.37	46.74	NEC/Raytheon
R73B2	Raytheon (South of 101)	57.15	8.95	48.20	NEC/Raytheon
RE1B2	Raytheon (South of 101)	52.88	3.54	49.34	NEC/Raytheon
GSF1B2	Siltec (South of 101)	39.61	15.86	23.75	Vishay/GeoMatrix
W9-4	U.S. Navy (North of 101)	12.46	6.56	5.90	Navy
W9-11	U.S. Navy (North of 101)	13.06	8.11	4.95	Navy
W9-12	U.S. Navy (North of 101)	19.68	5.20	14.48	Navy
W9-15	U.S. Navy (North of 101)	17.00	4.80	12.20	Navy
W9-39	U.S. Navy (North of 101)	15.29	6.50	8.79	Navy
W9-40	U.S. Navy (North of 101)	20.09	6.20	13.89	Navy
W88-1	U.S. Navy (North of 101)	17.39	3.66	13.73	Navy
W88-2	U.S. Navy (North of 101)	15.63	10.00	5.63	Navy
W88-3	U.S. Navy (North of 101)	17.56	9.28	8.28	Navy
B3 Zone					
29B3	Fairchild (North of 101)	26.00	6.87	19.13	Weiss
55B3	Fairchild (North of 101)	27.96	7.43	20.53	Weiss
57B3	Fairchild (North of 101)	21.50	5.21	16.29	Weiss
28B3	Fairchild (South of 101)	46.85	-6.80	53.65	Weiss
30B3	Fairchild (South of 101)	58.18	6.72	51.46	Weiss
31B3	Fairchild (South of 101)	43.46	4.95	38.51	Weiss
39B3	Fairchild (South of 101)	40.66	11.00	29.66	Weiss
44B3	Fairchild (South of 101)	38.806	4.30	34.51	Weiss
63B3	Fairchild (South of 101)	35.04	6.30	28.74	Weiss
133B3	Fairchild (South of 101)	49.26	-2.68	51.94	Weiss
65B3	MEW RGRP (South of 101)	43.36	-6.23	49.59	Weiss
R9B3	Raytheon (South of 101)	69.64	7.55	62.09	NEC/Raytheon
R18B3	Raytheon (South of 101)	51.66	-2.92	54.58	NEC/Raytheon
R27B3	Raytheon (South of 101)	51.37	-3.12	54.49	NEC/Raytheon
R37B3	Raytheon (South of 101)	60.52	2.59	57.93	NEC/Raytheon
R51B3	Raytheon (South of 101)	59.86	1.45	58.41	NEC/Raytheon
R54B3	Raytheon (South of 101)	64.52	3.25	61.27	NEC/Raytheon
R56B3	Raytheon (South of 101)	64.13	5.96	58.17	NEC/Raytheon
R57B3	Raytheon (South of 101)	57.00	-2.52	59.52	NEC/Raytheon
R61B3	Raytheon (South of 101)	58.41	-0.92	59.33	NEC/Raytheon
W9-5	U.S. Navy (North of 101)	12.10	4.80	7.30	Navy
C Zone					
6C	Fairchild (South of 101)	38.65	-22.42	61.07	Weiss
8C	Fairchild (South of 101)	55.03	-5.58	60.61	Weiss

Table B-2
19 September 2013 Groundwater Elevation Data
 MEW Regional Groundwater Remediation Program
 Mountain View, California

Well Name	Owner	TOC Elevation (ft msl)	Depth to Water (feet BTOC)	Groundwater Elevation (ft msl)	Measured By
C Zone					
9C	Fairchild (South of 101)	60.21	-0.41	60.62	Weiss
10C	Fairchild (South of 101)	59.44	-6.63	66.07	Weiss
11C	Fairchild (South of 101)	49.21	-12.36	61.57	Weiss
DW2-234	Fairchild (South of 101)	59.79	-0.45	60.24	Weiss
DW6-205	Fairchild (South of 101)	42.36	-21.17	63.53	Weiss
DW3-219	MEW RGRP (South of 101)	48.67	-14.36	63.03	Weiss
DW1-230	Raytheon (South of 101)	62.38	-0.10	62.48	Weiss
R3C	Raytheon (South of 101)	70.10	6.55	63.55	NEC/Raytheon
R4C	Raytheon (South of 101)	72.00	9.75	62.25	NEC/Raytheon
RW-1C	Silva (South of 101)	53.20	-7.56	60.76	Weiss
W3-16	U.S. Navy (North of 101)	0.37	-46.67	47.04	Navy
W4-7	U.S. Navy (North of 101)	4.55	-46.67	51.22	Navy
W8-3	U.S. Navy (North of 101)	13.08	-9.12	22.20	Navy
W9-3	U.S. Navy (North of 101)	19.28	-2.42	21.70	Navy
Deep Zone					
DW3-551	Fairchild (South of 101)	47.14	-1.44	48.58	Weiss
DW6-231	Fairchild (South of 101)	42.36	-21.92	64.28	Weiss
DW6-304	Fairchild (South of 101)	42.36	-21.58	63.94	Weiss
DW6-470	Fairchild (South of 101)	42.36	-7.80	50.16	Weiss
DW6-496	Fairchild (South of 101)	42.36	-6.43	48.79	Weiss
DW3-244	MEW RGRP (South of 101)	48.29	-17.08	65.37	Weiss
DW3-334	MEW RGRP (South of 101)	48.69	-15.70	64.39	Weiss
DW3-364	MEW RGRP (South of 101)	48.39	-12.93	61.32	Weiss
DW3-505R	MEW RGRP (South of 101)	48.92	-2.73	51.65	Weiss

Notes:

TOC = Top of Casing

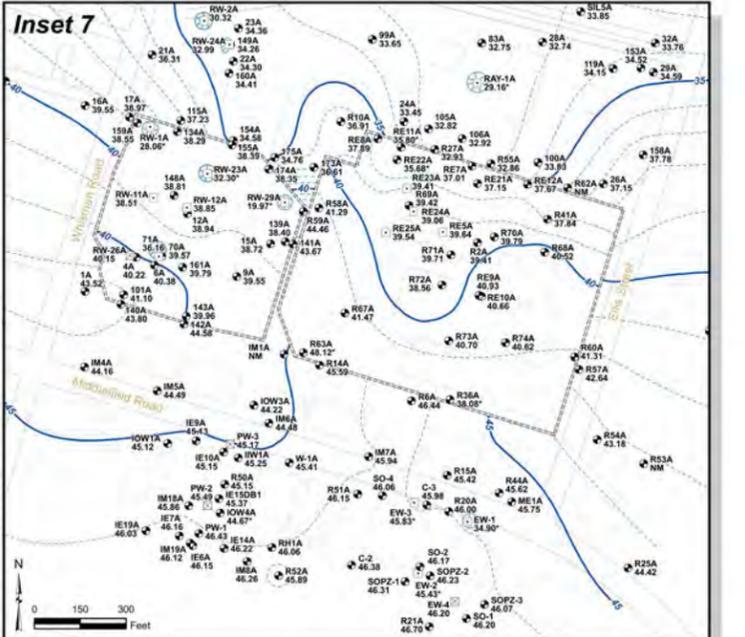
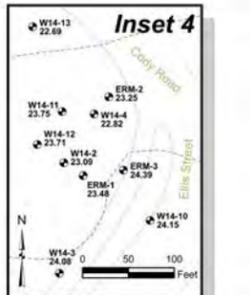
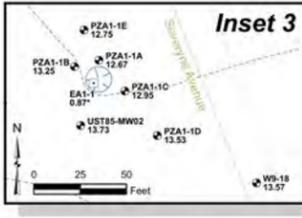
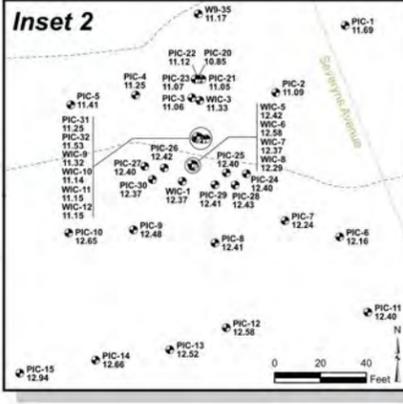
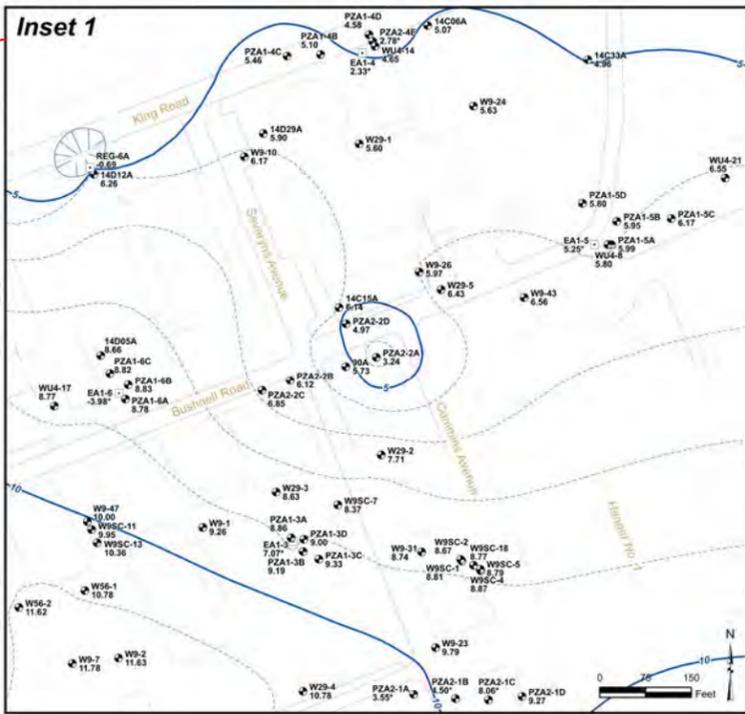
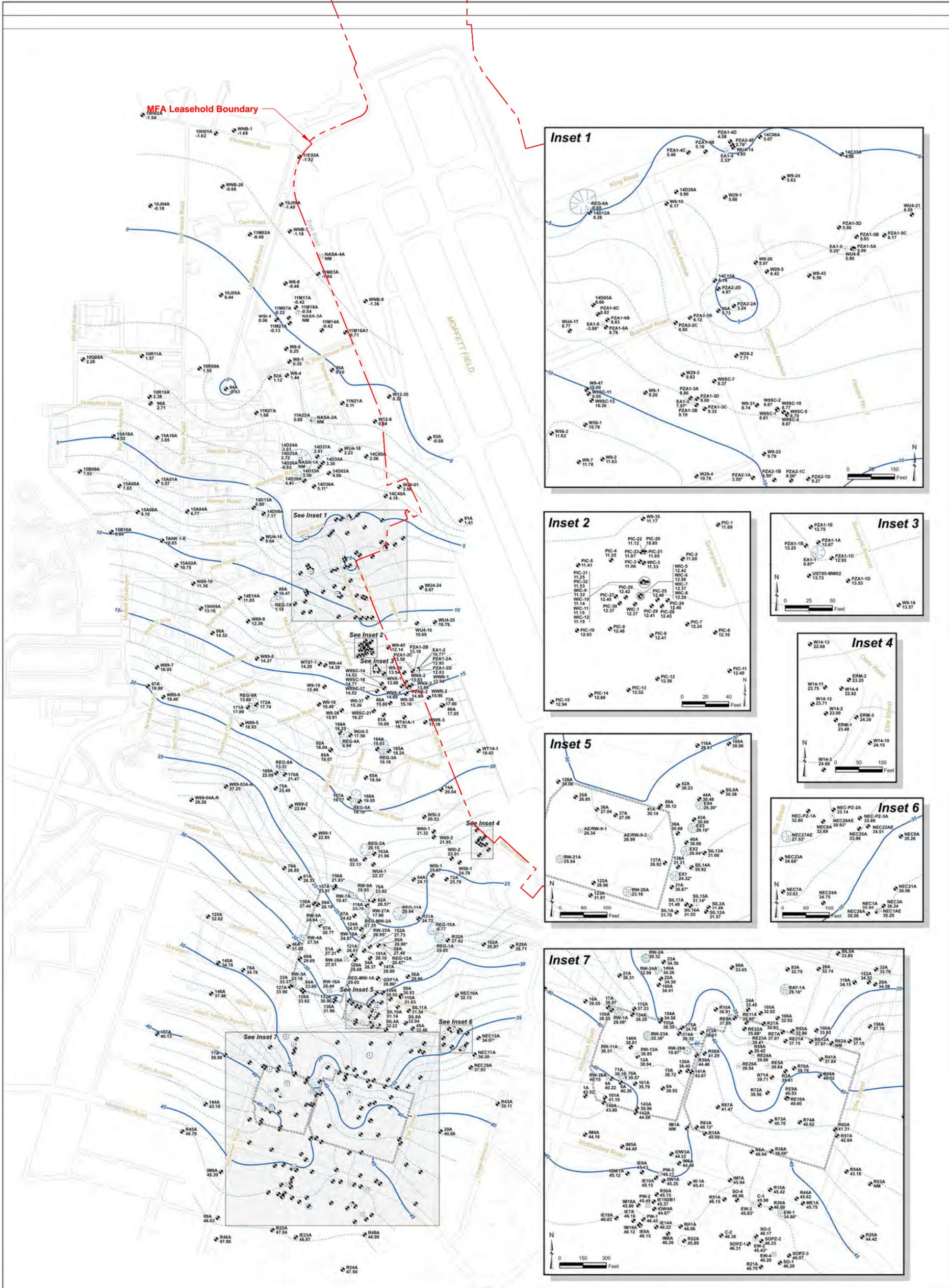
ft msl = Feet Mean Sea Level

NM = Not Measured

BTOC = Below Top of Casing

NA = Not Available

83% of wells owned/monitored by U.S. Navy were gauged on 21 September 2012.



Legend

- Recovery Well On
- Recovery Well Off
- Monitoring Well
- Well ID
- Groundwater Elevation (feet above mean sea level)
- * Groundwater Measurement Not Used in Contouring. (Water levels measured inside the casing of an extraction well are not used in contouring.)
- Values listed for extraction wells represent water levels in adjacent piezometers.
- NM - Water Levels Not Measured
- Groundwater Elevation: 1 ft Contour
- Groundwater Elevation: 5 ft Contour
- Closely Spaced Groundwater Contour
- ===== Slurry Wall
- Building
- Road



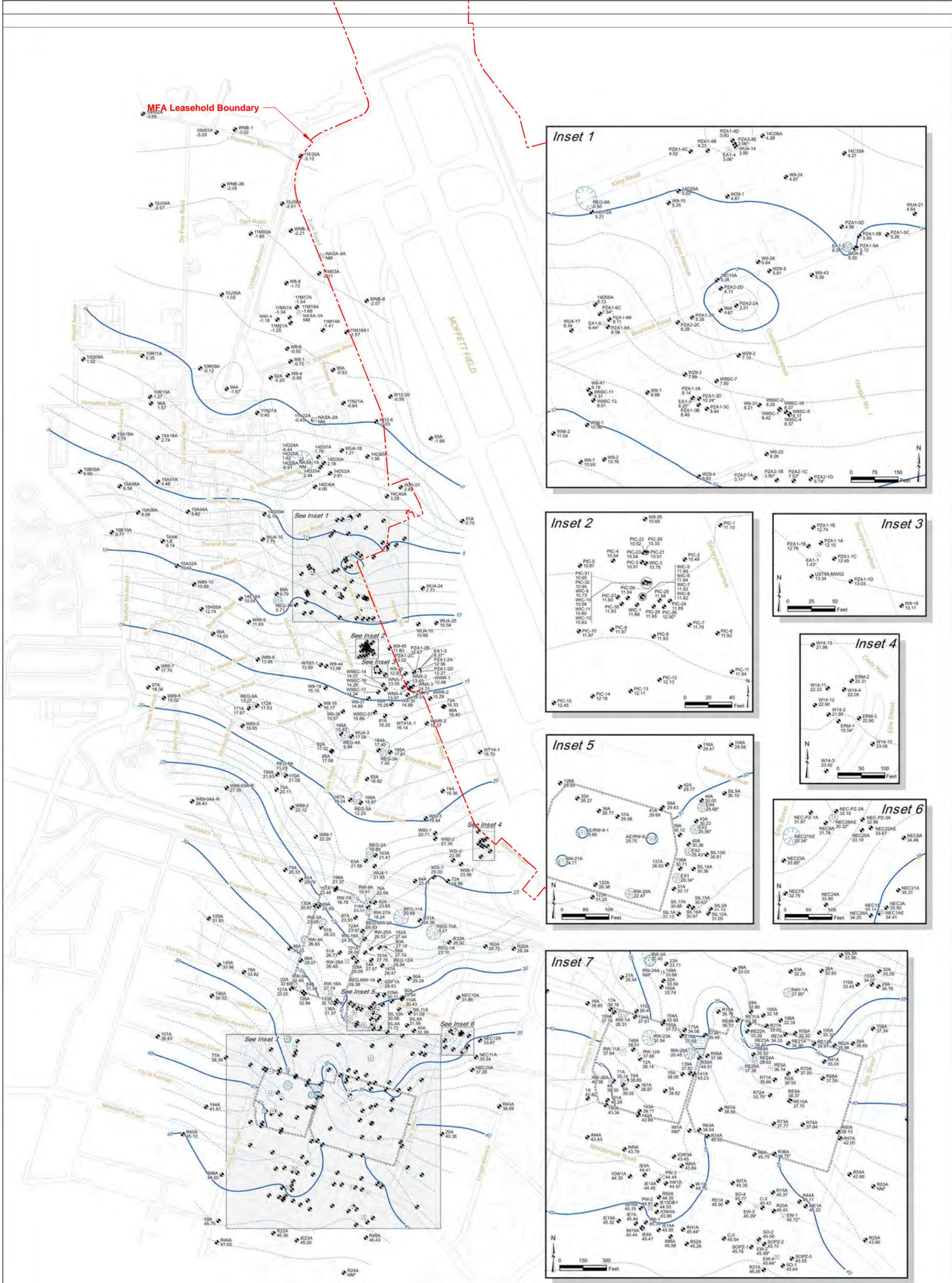
**A/A1 Zone Potentiometric Surface Elevation Contours
21 March 2013**
**MEW Regional Groundwater Remediation Program
Mountain View, California**



Oakland

April 2014

Figure
B-1



Legend

- Recovery Well On
- Recovery Well Off
- Monitoring Well
- Well ID
- Groundwater Elevation (feet above mean sea level)
- Groundwater Measurement Not Used in Contouring. (Water levels measured inside the casing of an extraction well are not used in contouring.)
- Values posted for extraction wells represent water levels in adjacent piezometers.
- NM - Water Levels Not Measured
- Groundwater Elevation: 1 ft Contour
- Groundwater Elevation: 5 ft Contour
- ⊙ Closely Spaced Groundwater Contour
- Slurry Wall
- Building
- Road



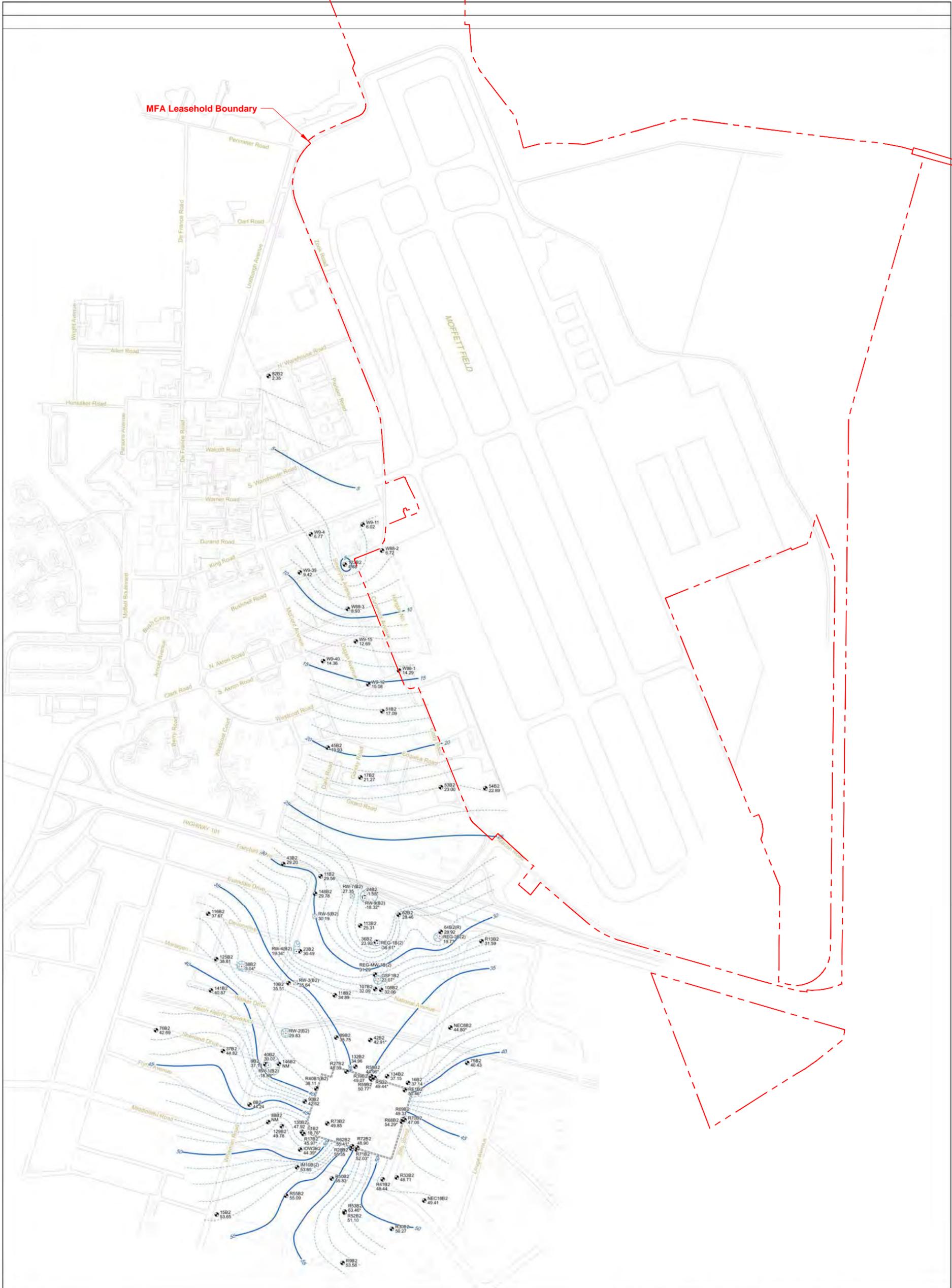
A/A1 Zone Potentiometric Surface Elevation Contours
 19 September 2013
 MEW Regional Groundwater Remediation Program
 Mountain View, California



Oakland

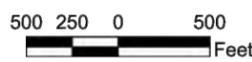
April 2014

Figure
B-2



Legend

- Recovery Well On
- Recovery Well Off
- Monitoring Well
- Well ID
- Groundwater Elevation (feet above mean sea level)
- * Groundwater Measurement Not Used in Contouring. (Water levels measured inside the casing of an extraction wells are not used in contouring.)
- Values posted for extraction wells represent water levels in adjacent piezometers.
- NM - Water Levels Not Measured
- Groundwater Elevation: 1 ft Contour
- Groundwater Elevation: 5 ft Contour
- ⊙ Closely Spaced Groundwater Contour
- Slurry Wall
- Building
- Road



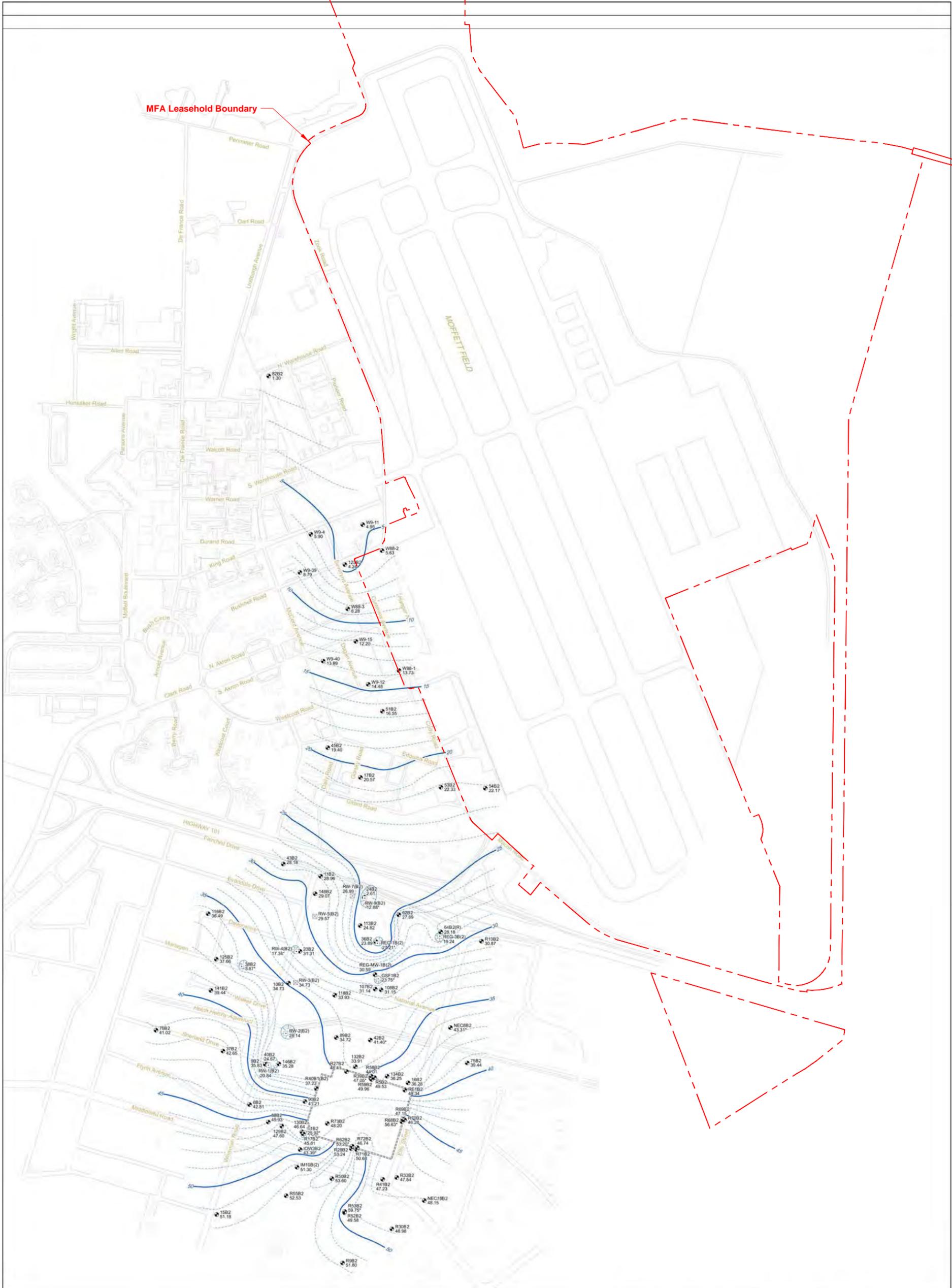
B2 Zone Potentiometric Surface Elevation Contours
21 March 2013
MEW Regional Groundwater Remediation Program
Mountain View, California



Oakland

April 2014

Figure
B-5



Legend

- Recovery Well On
- Recovery Well Off
- Monitoring Well
- Well ID
- Groundwater Elevation (feet above mean sea level)
- * Groundwater Measurement Not Used in Contouring. (Water levels measured inside the casing of an extraction wells are not used in contouring.) Values posted for extraction wells represent water levels in adjacent piezometers. NM - Water Levels Not Measured
- Groundwater Elevation: 1 ft Contour
- Groundwater Elevation: 5 ft Contour
- ⊙ Closely Spaced Groundwater Contour
- Slurry Wall
- Building
- Road



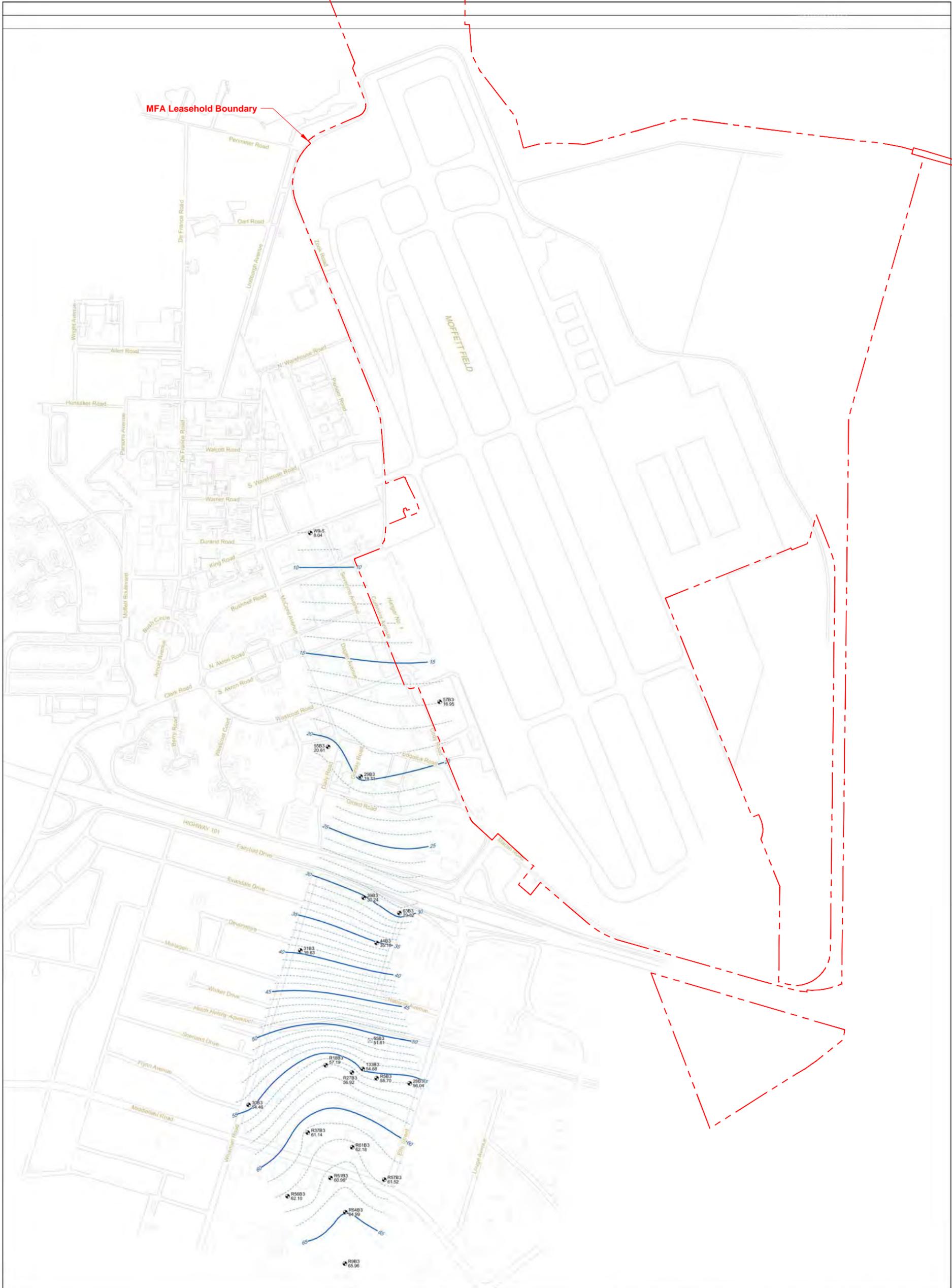
B2 Zone Potentiometric Surface Elevation Contours
 19 September 2013
 MEW Regional Groundwater Remediation Program
 Mountain View, California

Geosyntec
 consultants

Oakland

April 2014

Figure
B-6



Legend

- Recovery Well On - - - - - Groundwater Elevation: 1 ft Contour
- Recovery Well Off ——— Groundwater Elevation: 5 ft Contour
- Monitoring Well ⦿ Closely Spaced Groundwater Contour
- Building
- Road

Well ID
 Groundwater Elevation (feet above mean sea level)
 * Groundwater Measurement Not Used in Contouring. (Water levels measured inside the casing of an extraction well are not used in contouring.)

Values posted for extraction wells represent water levels in adjacent piezometers.

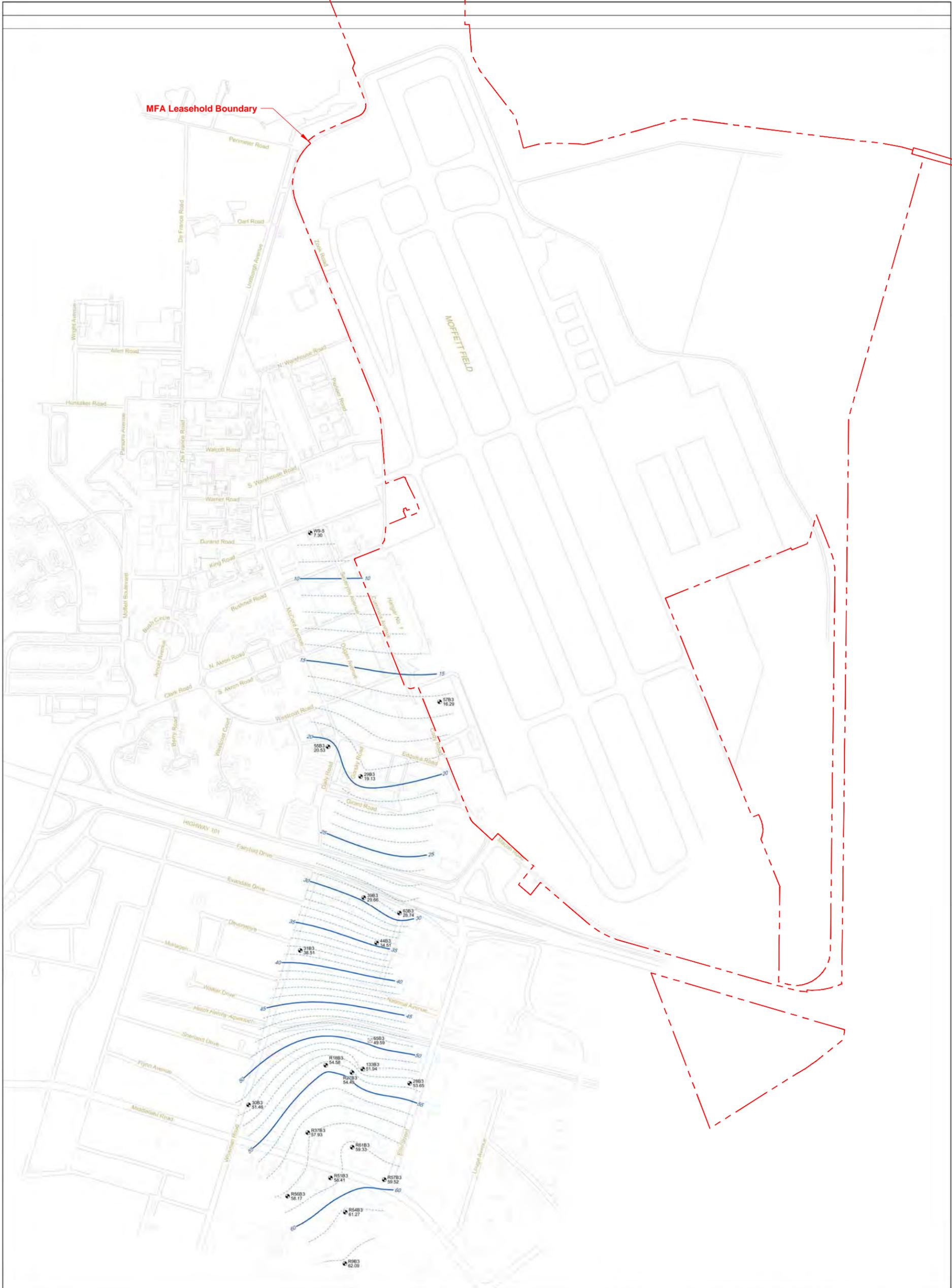
B3 Zone Potentiometric Surface Elevation Contours
 21 March 2013
 MEW Regional Groundwater Remediation Program
 Mountain View, California



Figure
 B-7

Oakland

April 2014



Legend

- Recovery Well On - - - - - Groundwater Elevation: 1 ft Contour
- Recovery Well Off ——— Groundwater Elevation: 5 ft Contour
- Monitoring Well ⊕ Closely Spaced Groundwater Contour

Well ID
 Groundwater Elevation (feet above mean sea level)
 * Groundwater Measurement Not Used in Contouring. (Water levels measured inside the casing of an extraction well are not used in contouring.)

Values posted for extraction wells represent water levels in adjacent piezometers.

- Building
- Road



B3 Zone Potentiometric Surface Elevation Contours
 19 September 2013
 MEW Regional Groundwater Remediation Program
 Mountain View, California



Oakland

April 2014

Figure
B-8



Legend

- Recovery Well On
- Recovery Well Off
- Monitoring Well
- Well ID**
- Groundwater Elevation (feet above mean sea level)**
- Groundwater Measurement Not Used in Contouring. (Water levels measured inside the casing of an extraction well are not used in contouring.)

— Groundwater Elevation Index 5 ft Contour

— Building
— Road



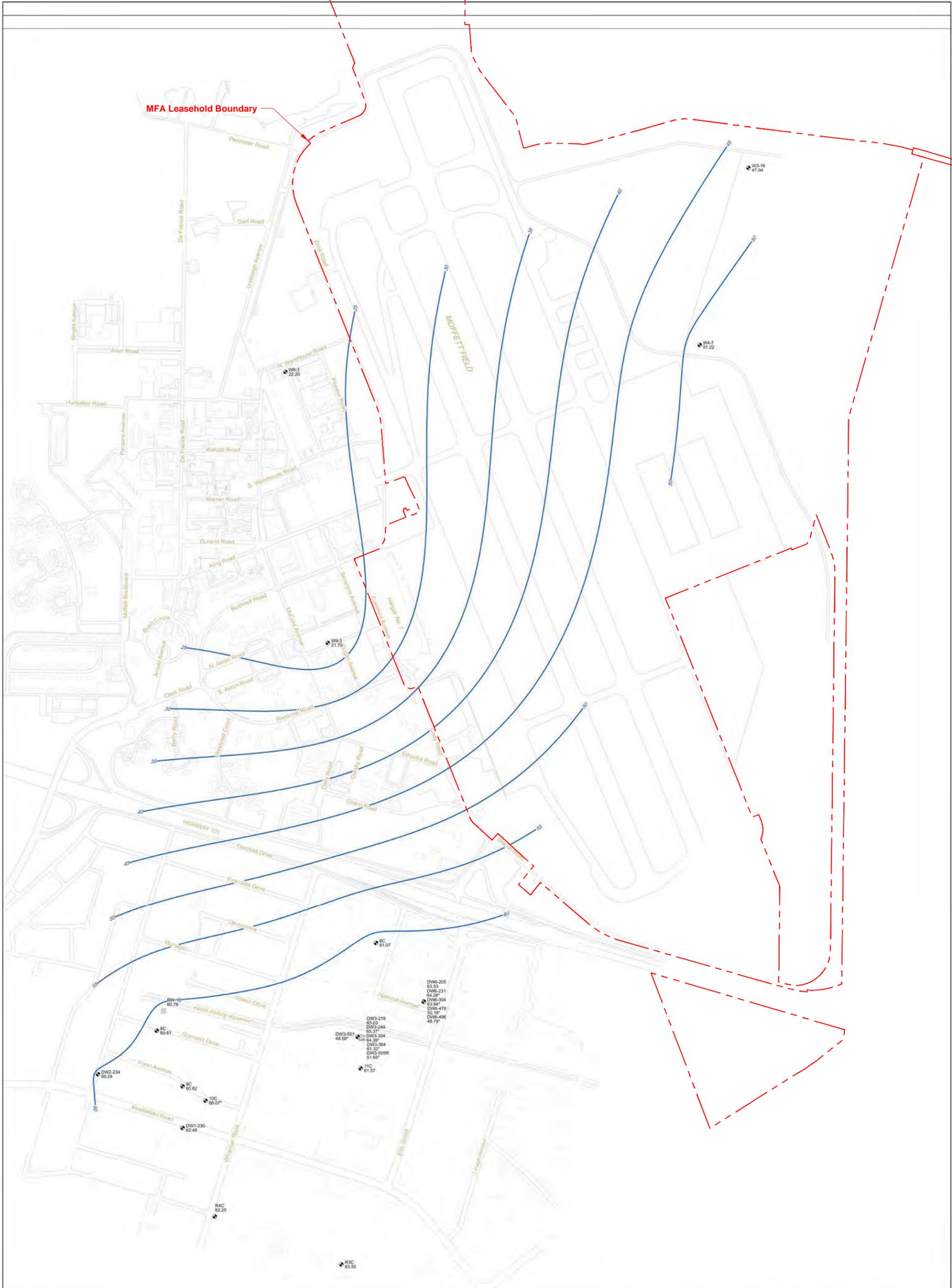
C and Deep Zone Potentiometric Surface Elevation Contours
21 March 2013
MEW Regional Groundwater Remediation Program
Mountain View, California

Geosyntec
consultants

Oakland

April 2014

Figure
B-9



Legend

- Recovery Well On
 - Recovery Well Off
 - Monitoring Well
 - Well ID
 - Groundwater Elevation (feet above mean sea level)
 - Groundwater Measurement Not Used in Contouring. (Water levels measured inside the casing of an extraction well are not used in contouring.)
- Groundwater Elevation Index 5 ft Contour
 - Building
 - Road



C and Deep Zone Potentiometric Surface Elevation Contours
 19 September 2013
 MEW Regional Groundwater Remediation Program
 Mountain View, California



Figure
B-10

Oakland April 2014



2013 Annual Progress Report

NASA Ames Groundwater Treatment System

Regional Groundwater Remediation Program

April 2014

Prepared for:

NASA Ames Research Center
Environmental Management Division
Mail Stop 204-15
Moffett Field, California 94035-1000

Prepared by:



Mail Stop T20G-4
NASA Ames Research Center
Moffett Field, California 94035-1000

MFA Leasehold Boundary

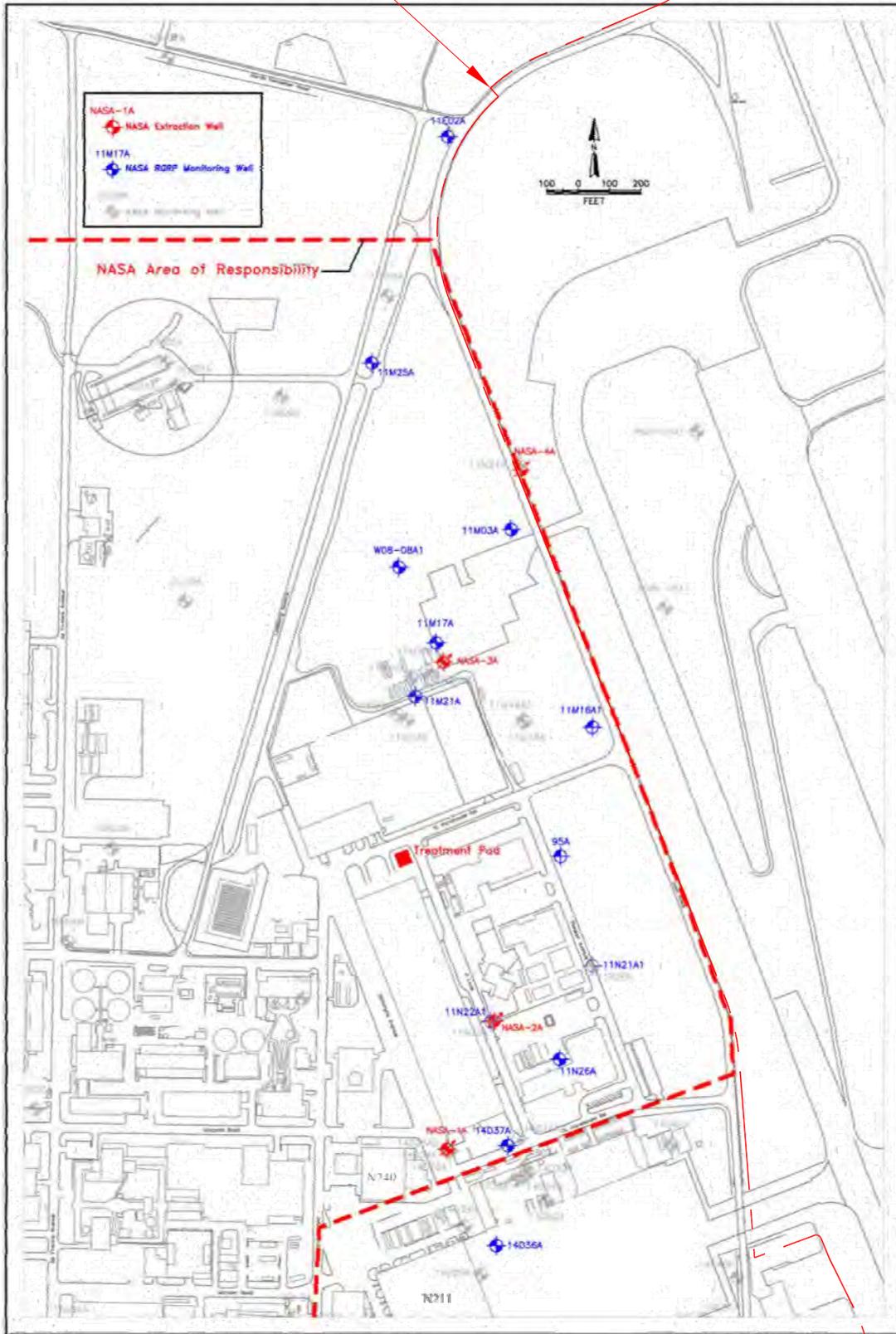


Figure 4
NASA Ames Monitoring and Extraction Well Locations

APPENDIX C

Sub-Slab and Indoor Air Data for Hangars 2 and 3

1. EKI, 2014a. *Hangar 2 and Hangar 3 Sub-Slab Vapor Investigation, Former Naval Air Station Moffett Field, California*, Erler & Kalinowski, Inc., 23 September 2014.
2. EKI, 2014b. *Hangar 3 Indoor Air Investigation, Former Naval Air Station Moffett Field, California*, Erler & Kalinowski, Inc., 24 November 2014.
3. NASA, 2014b. *Hangars 2 & 3 Indoor Air Sampling, Fall 2014 Sampling Results Summary Report*, 17 December 2014.

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Erler &
Kalinowski,
Inc.

Hangar 2 and Hangar 3 Sub-Slab Vapor Investigation

Former Naval Air Station
Moffett Field, California

Prepared by:

Erler & Kalinowski, Inc.
1870 Ogden Drive
Burlingame, California 94010

23 September 2014

23 September 2014

Sallie Lim
Sr. Corporate Counsel
Planetary Ventures, LLC.
1600 Amphitheater Pkwy
Mountain View, CA 94043

Subject: Hangar 2 and Hangar 3 Sub-Slab Vapor Investigation
Former Naval Air Station Moffett Field, California
(EKI B20019.15)

Dear Ms. Lim:

Erler & Kalinowski, Inc. (“EKI”) has prepared this report to provide the results of EKI’s recent sub-slab vapor investigation at Hangars 2 and 3 on the Former Naval Air Station Moffett Field, California.

This report has been prepared for the benefit, use and reliance of Planetary Ventures, LLC. Unless specifically authorized in writing in an agreement acceptable to EKI, use of or reliance on EKI’s work product by any other entity is not permitted or authorized. Reliance on or use of EKI’s work product by any third party without written authorization by EKI does not make such entity a third party beneficiary of EKI’s work product. Any such unauthorized reliance on, modification of, or use of EKI’s work product, including any of its information or conclusions, will be at such third party’s sole risk.

We are pleased to have the opportunity to work with you on this project. Please call if you have any questions or need further assistance.

Very truly yours,

ERLER & KALINOWSKI, INC.



Karen A. Gruebel, Ph.D.
Project Scientist



Steven G. Miller, P.E.
Project Manager

cc: Martin Suen, Planetary Ventures
Pamela Andes, Allen Matkins



Hangar 2 and Hangar 3 Sub-Slab Vapor Investigation

Former Naval Air Station Moffett Field, California

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Appendix A	Laboratory Analytical Reports
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Hangar 2 and Hangar 3 Sub-Slab Vapor Investigation

Former Naval Air Station Moffett Field, California

ACRONYMS AND ABBREVIATIONS

Cal-EPA	California Environmental Protection Agency
CT	carbon tetrachloride
EKI	Erler & Kalinowski, Inc.
ESL	environmental screening level
Freon 11	trichlorofluoromethane
Freon 113	1,1,2-trichloro-1,2,2-trifluoroethane
KPrime	K Prime, Inc.
mL	milliliters
mL/min	milliliters per minute
NAS	Naval Air Station
NASA	National Aeronautics and Space Administration
PCE	tetrachloroethene
ppmv	parts per million by volume
QA/QC	quality assurance/quality control
RSL	regional screening level
SL	screening level
SSVP	sub-slab vapor prove
Subdynamic	Subdynamic Locating Services
1,1,1-TCA	1,1,1-trichloroethane
TCE	trichloroethene
TeFA	1,1,1,2-tetrafluoroethane
1,2,4-TMB	1,2,4-trimethylbenzene
1,3,5-TMP	1,3,5-trimethylbenzene
Turner	Turner Construction Company
U.S. EPA	United States Environmental Protection Agency
UST	underground storage tank
VOC	volatile organic compound
Water Board	California Regional Water Quality Control Board, San Francisco Bay Region

1. INTRODUCTION

This report presents results from the sub-slab vapor sampling conducted by Erler & Kalinowski, Inc. (“EKI”) during August and September 2014 in Hangar 2 and Hangar 3 located at the Former Naval Air Station (“NAS”) Moffett Field, California (“Site,” Figure 1). EKI conducted this investigation on behalf of Planetary Ventures, LLC to screen Hangar 2 and Hangar 3 for the presence volatile organic compounds (“VOCs”) in sub-slab vapor beneath the hangars.

Sample locations were selected to both broadly screen the two hangars as well as to focus sampling on areas where offices and other small rooms are in use and are in the vicinity of known or suspected past VOC releases (i.e., the east side of Hangar 3).

Between 25 August 2014 and 29 August 2014, EKI installed a total of 50 temporary sub-slab vapor probes (“SSVPs”). Samples were collected from these probes between 27 August 2014 and 3 September 2014 and analyzed for VOCs. Sampling procedures and analytical results for these samples are presented herein.

2. SAMPLING PROGRAM

The sampling program described herein was conducted in general accordance with the California Environmental Protection Agency (“Cal-EPA”) Department of Toxic Substances Control’s *Guidance for the Evaluation and Mitigation of Subsurface Vapor Intrusion to Indoor Air (Vapor Intrusion Guidance)* (Cal-EPA, 2011) and Cal-EPA’s *Advisory – Active Soil Gas Investigations* (Cal-EPA, 2012).

Samples collected during the sub-slab vapor investigation were transported under chain-of-custody protocol to K Prime, Inc. (“KPrime”), of Santa Rosa, California for analysis.

2.1 Sampling Program Rationale and Overview

Sub-slab vapor sample locations were selected to broadly screen both hangars and to focus sampling on areas where offices and other small rooms are in use and are the vicinity of known or suspected past VOC releases. To identify the areas of focused sub-slab vapor sampling, EKI reviewed available environmental documents for the Hangar 2 and Hangar 3 area to identify areas of known or suspected past VOC chemical use and/or release. This review identified the following:

- Former Underground Storage Tank (“UST”) 2: This UST, removed in 1990, was located outside, about midway along the east site of Hangar 3. The tank was used to store waste products from the power plant shop in Hangar 3, which likely included spent mixtures of oils, hydraulic fluids, methyl ethyl ketone, jet fuel, PD-680 solvent, toluene, and stoddard solvent. Petroleum hydrocarbons were detected in soil and groundwater samples collected from this location. UST 2 is part of Installation Restoration (“IR”) Site 19. The California Regional Water Quality Control Board, San Francisco Bay Region (“Water Board”) issued a letter indicating that no further action is needed related to closure of this UST (Water Board, 2003).
- Former UST 43: UST 43, removed in 1990, was located outside at the northeast corner of Hangar 3. It may have been used to store waste oils, solvents, waste fuel, methyl ethyl ketone, paint wastes and battery acid. Petroleum hydrocarbons and chlorinated solvents were detected in soil and groundwater samples collected from this location. In its review of the 2003 Draft Final Phase II Basewide Tank Closure Report, the Water Board stated that the Navy’s request for closure of Tank 43 was not granted. The Water Board indicated because the contents of Tank 43 were chlorinated VOCs and the subsurface contamination in the groundwater include chlorinated VOCs, the investigation and closure of Tank 43 will be addressed as part of the IR Site 26 remediation efforts (Water Board, 2008).
- The 1996 *Station-Wide Remedial Investigation Report for Moffett Federal Airfield* (PRC, 1996) identified:

- a power plant shop located in the northeastern corner of Hangar 3 at which chlorinated solvents including trichloroethene (“TCE”) were disposed of in barrels, through deck drains, and on unpaved areas around Hangar 3,
 - unpaved areas at corners of Hangars 2 and 3 that were historically used to dispose of 120,000 to 600,000 gallons of paint, paint strippers, oils, solvents, fuels, hydraulic fluids, and other wastes, and
 - wastes were accumulated in barrels on the unpaved area surrounding the Hangars 2 and 3.
- Other tanks formerly located outside of Hangar 3 include Tanks 54, 88, 69, and 100. UST 54, removed in 1992, was 1,620-gallon oil/water separator in which wastewater from aircraft maintenance operations in Hangar 3 were stored. UST 88 was 500 gallons and according to NASA, UST 88 was used to store hazardous waste. It was removed in 1992; no leaks were observed during removal activities. UST 69 was 2,000-gallon single-walled steel UST used to contain solvents or wastewater from sinks within Hangar 3; UST 69 was removed in 1991. AST 100, was 200 gallons, used to store diesel, and removed in 1992.
 - Tanks that were formerly located between Hangars 2 and 3 included USTs 3 and 114. UST 114 was a 2,400-gallon concrete UST used to store diesel and was removed in 1994. The area of the former UST 114 was re-excavated during the Building 55 Sump removal action in 2009. UST 3 was a 10,000-gallon fiberglass UST installed in 1980 that was used to store stand-by fuel for the Building 55 boilers. It was removed in 1994. Also located between Hangars 2 and 3 was a fuel pipeline that linked the Fuel Farm to the Building 55 Area; while excavating the northern end of the pipeline in 2005, product was observed; remediation of the area included installation of product recovery sump (i.e., the Building 55 sump). The sump was removed in 2009.
 - UST 131 was located outside the southwest corner of Hangar 2; it was 100 gallons, used to store gasoline, and was removed in 1995.

EKI also conducted a walk-through of the hangars to select locations that are near features of potential interest such as sumps and floor drains.

The selected sampling locations are shown on Figures 2 and 3 for Hangars 2 and 3, respectively. Information describing the sampling locations is provided in Table 1.

As indicated in the table below, between 25 August 2014 and 29 August 2014, EKI installed a total of 50 temporary SSVPs in Hangar 2 and Hangar 3. As shown on Figure 2 and Figure 3, 10 of the probes were installed in Hangar 2 and the remaining 40 probes were installed in Hangar 3. Samples were collected from these probes between 27 August 2014 and 3 September 2014.

Date	Number of SSVPs Installed	Number of SSVPs Sampled
25 August 2014	4	-
26 August 2014	16	-
27 August 2014	-	3
28 August 2014	19	3
29 August 2014	11	-
2 September 2014	-	32
3 September 2014	-	12

Further discussion of the sampling program is provided in Section 4, along with the analytical results.

2.2 Field Work Preparation

EKI personnel met with Turner Construction Company (“Turner”) staff on 20 August 2014 to identify potential temporary sub-slab vapor sampling locations. A survey to check for underground utilities at the proposed sampling locations was conducted by Subdynamic Locating Services (“Subdynamic”), a subconsultant for Turner. EKI contacted Underground Services Alert prior to conducting any drilling at the proposed sampling locations.

2.3 General Field Procedures

After each sampling location was cleared by Subdynamic, a hole drilled through the floor using a roto-hammer. An approximately 0.75-inch diameter hole was drilled in which the upper approximately 1.5-inches of this hole was over-drilled to a diameter of approximately 1.25-inches to accommodate the upper fittings of the SSVP. The approximate thickness of the concrete slab and the approximate total depth of the drilled hole at each SSVP location are presented in Table 1. On completion of the drilling, dust and other material from around and within the hole were removed using a vacuum.

EKI personnel assembled the SSVPs on-Site from 0.25-inch diameter, stainless-steel tubing, stainless-steel screens, stainless steel compression fittings, and silicone stoppers as shown on Figure 4. Prior to installing the SSVP, silicone high vacuum grease was applied to outside of the silicone stopper. After inserting the SSVP assembly into the drilled hole, an approximately 1-inch layer of sand and an approximately 1-inch layer of granular bentonite was placed in the annulus between the tubing and the concrete core hole above the silicone stopper and water was added to hydrate the granular bentonite. After covering the SSVP fittings with tape, anchoring cement (Quickcrete[®] Exterior Use Anchoring Cement, or equivalent) was used to fill the annulus between the SSVP tubing, the top fitting, and the concreted floor, and the cement was smoothed to match the existing surface of the concrete floor. Prior to sampling, the anchoring cement was allowed to set for a minimum of 24 hours prior to sample collection.

Vapor samples from the SSVPs were collected in pre-cleaned and pre-evacuated 1-liter SUMMA-passivated stainless steel sample containers equipped with flow controllers set at flow rate of 100 milliliters per minute (“mL/min”); new and unused Teflon tubing and fittings were used for the collection of each sample. Prior to collecting the sample, approximately 200

milliliters (“mL”) of vapor was purged from the probe using a syringe. After connecting the SUMMA canister and flow controller to the sampling tubing, a shut-in leak test of the sampling apparatus was conducted. Then, the sampling valve and sample container inlet valve were opened and the entire sampling assembly was placed within a sampling shroud and a leak check gas (1,1,1,2-tetrafluoroethane; “TeFA”) was sprayed into the shroud. After approximately 10 minutes, the inlet valve to the sample canister was closed, the sampling canister disconnected from the sampling tubing, and a brass cap was securely threaded onto the inlet of the SUMMA canister.

Shroud samples are vapor samples collected from within the sampling shroud during the collection of samples from the SSVP; the primary purpose of the shroud samples is to permit the quantitative determination of a leak in the sampling train from ambient air intrusion. Shroud samples were collected in pre-cleaned and pre-evacuated 1-liter SUMMA-passivated stainless steel sample containers equipped with flow controllers set at flow rate of 100 mL/min. After opening both the sampling valve and sample container inlet valve for the SSVP, the inlet valve for the shroud sample was opened. The sampling shroud was placed over the entire SSVP sampling assembly and the shroud sampling assembly, and a TeFA was sprayed into the shroud. After approximately 10 minutes, the inlet valves to the sample canister and the shroud canister were closed, the sampling container disconnected from the sampling tubing, and brass caps were securely threaded onto the inlets of the sample and shroud canisters.

2.4 Location Surveying

As described in Table 1, location information for each SSVP has been recorded based on the SSVP position with respect to numbered building trusses and distance from fixed structures such as walls.

3. LABORATORY ANALYSES

Samples were submitted to KPrime under chain-of-custody protocols. Samples were received at KPrime on 3 September 2014 and 3 September 2014. Copies of the laboratory analytical reports are included in Appendix A.

3.1 Analytical Methods

Samples sent to KPrime were analyzed for VOCs using EPA Method TO-15 and for TeFA using EPA Method TO-3.

3.2 Data Quality

Duplicate SSVP samples were collected at locations H2-SG-01, H3-SG-03, H3-SG-08, H3-SG-22, and H3-SG-36. Analytical results of these duplicate samples are reported in Table 2. The results of these duplicate samples are comparable and generally consistent with associated environmental field sample results.

All other QA/QC analytical results were within (a) generally accepted laboratory QA/QC protocols and (b) requirements of the laboratory's internal quality control procedures. Therefore, the data collected as part of this investigation are considered acceptable and useable for the evaluation of Site conditions as described in this report.

4. SAMPLE ANALYTICAL RESULTS

This section summarizes the laboratory analytical results for the sub-slab vapor samples collected in Hangars 2 and 3.

For preliminary screening purposes, sample analytical results are compared to screening levels for VOCs detected in the sub-slab vapors. The screening levels (“SLs”) are based on the lowest of (a) the U.S. EPA Region IX Regional Screening Level (“RSL”) for ambient air under an industrial land use scenario and (b) the Water Board Environmental Screening Level (“ESL”) for ambient and indoor air multiplied by an attenuation factor of 20 between indoor air and sub-slab vapor.¹ If RSLs or ESLs were not available for a compound, screening criteria from Cal-EPA’s *Human Health Risk Assessment (HHRA) Note Number 3* (2013) were used, if available.

4.1 Hangar 2

Eleven sub-slab vapor samples (i.e., 10 samples and a duplicate) were collected from the 10 SSVPs installed in Hangar 2. The locations of these sampling points and a summary of the analytical results for selected VOCs are shown on Figure 5; analytical results for all detected VOCs in these samples are shown in Table 2. As seen in Table 2, the sub-slab vapor at eight of the 10 SSVPs contained detectable concentrations of VOCs. Detected analytes include:

- TCE;
- tetrachloroethene (“PCE”);
- carbon tetrachloride (“CT”);
- chloroform;
- trichlorofluoromethane (“Freon 11”);
- 1,1,2-trichloro-1,2,2-trifluoroethane (“Freon 113”);
- 1,1,1-trichloroethane (“1,1,1-TCA”); and,
- methylene chloride.

Detected sub-slab vapor concentrations of chlorinated VOCs exceeded SLs at 5 of the 10 SSVP locations. A summary of these exceedances is presented below.

- PCE (SL = 20 micrograms per cubic meter (“ug/m³”))
 - H2-SG-01: 103 ug/m³ (and 104 ug/m³ in the duplicate sample)
- TCE (SL = 60 ug/m³)
 - H2-SG-02: 90 ug/m³
- CT (SL = 5.8 ug/m³)
 - H2-SG-02: 319 ug/m³

¹ The multiplication of the RSL or ESL for ambient and indoor air by attenuation factor of 20 is based on Cal-EPA guidance (Cal-EPA, 2011).

- H2-SG-07: 1,950 ug/m³
- H2-SG-09: 12.8 ug/m³
- chloroform (SL = 11 ug/m³)
 - H2-SG-02: 59.3 ug/m³
 - H2-SG-03: 6,760 ug/m³
 - H2-SG-07: 10,400 ug/m³

In addition, in the samples collected at the locations indicated below, one or more VOCs had analytical reporting limits that were higher than the SL.

- H2-SG-03 had a reporting limit that was higher than the SL for TCE, PCE, CT, methylene chloride, benzene, ethylbenzene, 1,2,4-trimethylbenzene (“1,2,4-TMB”), and 1,3,5-trimethylbenzene (“1,3,5-TMB”);
- H2-SG-05 had a reporting limit that was higher than the SL for CT, chloroform, benzene, and ethylbenzene;
- H2-SG-07 had a reporting limit that was higher than the SL for TCE, PCE, benzene, and ethylbenzene; and
- All locations except H2-SG-02, H2-SG-07, and H2-SG-09 had reporting limits that were higher than the SL for CT.

Leak check compound, TeFA, was only detected at H2-SG-03 and at a concentration of 111 parts per million by volume (“ppmv”). Shroud sampling results (Table 3) at H2-SG-03, indicate that TeFA concentrations were approximately 1,880 ppmv in the shroud which indicates that the sample may have contained up to 6% ambient air.² As a consequence, the analytical results for H2-SG-03 may be biased low.

4.2 Hangar 3

Forty-four sub-slab vapor samples (i.e., 40 samples and 4 duplicates) were collected from the 40 SSVPs installed in Hangar 3. The locations of these sampling points and the analytical results for select VOCs are shown on Figure 6; analytical results for selected VOCs in these samples are shown in Table 2. As shown in Table 2, the sub-slab vapor at 37 of the 40 SSVPs contained detectable concentrations of VOCs. Detected analytes include:

- TCE;
- PCE;
- CT;
- chloroform;
- Freon 11;
- Freon 113;
- 1,1,1-TCA;

² Cal-EPA’s *Active Soil Gas Investigation Advisory* (Cal-EPA, 2012) indicates that ambient air leaks up to 5% are acceptable if quantitative tracer testing performed by shrouding.

- methylene chloride;
- benzene, toluene, ethylbenzene, and xylenes;
- 1,2,4-TMB;
- 1,3,5-TMB; and,
- styrene.

Detected sub-slab vapor concentrations of chlorinated VOCs exceeded SLs at 31 of the 40 SSVP locations. A summary of these exceedances is presented below.

- PCE (SL = 20 ug/m³)
 - Detected above its SL at 27 SSVP locations. At these locations, the average sub-slab vapor concentration³ was approximately 1,290 ug/m³ and the maximum detected concentration was 15,500 ug/m³.
 - PCE was also detected at concentrations below the sub-slab vapor SL at 4 other SSVP locations (H3-SG-11, H3-SG-13, H3-SG-37, and H3-SG-40). At these locations, the average sub-slab vapor concentration⁴ was approximately 17 ug/m³.
- TCE (SL = 60 ug/m³)
 - Detected above its SL at 12 SSVP locations. At these locations, the average sub-slab vapor concentration⁴ was approximately 850 ug/m³ and the maximum detected concentration was 2,500 ug/m³.
 - TCE was also detected at concentrations below the sub-slab vapor SL at 9 other SSVP locations. At these locations, the average sub-slab vapor concentration⁴ was approximately 30 ug/m³.
- CT (SL = 5.8 ug/m³)
 - Detected above its SL at 4 SSVP locations (H3-SG-05, H3-SG-15, H3-SG-22, H3-SG-25). At these locations, the average sub-slab vapor concentration⁴ was approximately 29 ug/m³ and the maximum detected concentration was 73.2 ug/m³.
- chloroform (SL = 11 ug/m³)
 - Detected above its SL at 3 SSVP locations (H3-SG-13, H3-SG-22, and H3-SG-24). At these locations, the average sub-slab vapor concentration⁴ was approximately 340 ug/m³ and the maximum detected concentration was 956 ug/m³.
- benzene (SL = 8.4 ug/m³)
 - Detected at 14.2 ug/m³ at H3-SG-27. Benzene was also detected at concentrations below the sub-slab vapor SL at 2 other SSVP locations (H3-SG-15 and H3-SG-17).

In addition, in the samples collected at the locations indicated below, one or more VOCs had analytical reporting limits that were higher than the SL.

³ At locations where a duplicate sample was collected, only the results of the initial sample were included in the average.

- H3-SG-03 had a reporting limit that was higher than the SL for TCE, PCE, chloroform, benzene, and ethylbenzene;
- H3-SG-04 had a reporting limit that was higher than the SL for TCE, chloroform, benzene, and ethylbenzene;
- H3-SG-06, H3-SG-11, H3-SG-12, H3-SG-28, H3-SG-31, and H3-SG-35 had reporting limits that were higher than the SL for chloroform;
- H3-SG-08 had a reporting limit that was higher than the SL for TCE, chloroform, and benzene;
- H3-SG-09 had a reporting limit that was higher than the SL for PCE, chloroform, and benzene;
- H3-SG-20, H3-SG-29, and H3-SG-36 had reporting limits that were higher than the SL for chloroform and benzene;
- H3-SG-24 had a reporting limit that was higher than the SL for benzene; and
- All locations except H3-SG-05, H3-SG-15, H3-SG-22, H3-SG-25 had reporting limits that were higher than the SL for CT.

In the duplicate sample collected at H3-SG-03⁴ and the samples collected at H2-SG-15, H3-SG-25, and H3-SG-34, leak check compound (TeFA) was detected at concentrations of 14.0 ppmv, 22.7 ppmv, 755 ppmv, and 35.1 ppmv, respectively.

In the shroud samples collected in Hangar 3 (Table 3), the average TeFA concentration was approximately 9,000 ppmv; using this value to approximate the concentration in the shroud, the observed TeFA concentration in the sample collected at H3-SG-25 indicates that the sample may have contained up to approximately 8% ambient air.⁵ As a consequence, the analytical results for H3-SG-25 may be biased low.

⁴ In the original sample collected at SSVP H3-SG-03, TeFA was not detected above an analytical reporting limit of 10 ppmv.

⁵ Using the minimum and maximum TeFA shroud concentrations observed in Hangar 3 in place of the average TeFA Hangar 3 shroud concentration indicates that the ambient air content of the sample collected at H3-SG-25 could potentially have ranged between approximately 4% and 38%.

5. REFERENCES

- Cal-EPA, 2011. *Guidance for the Evaluation and Mitigation of Subsurface Vapor Intrusion to Indoor Air (Vapor Intrusion Guidance)*, California Environmental Protection Agency, Department of Toxic Substances Control, October 2011.
- Cal-EPA, 2012. *Active Soil Gas Investigations Advisory*, California Environmental Protection Agency, Department of Toxic Substances Control, April 2012.
- Cal-EPA, 2013. *Human Health Risk Assessment (HHRA) Note Number 3*, California Environmental Protection Agency, Department of Toxic Substances Control, Office of Human and Ecological Risk (HERO), 21 May 2013.
- EKI, 2014. *DRAFT Environmental Issues Management Plan, MFA Leasehold, Former NAS Moffett Field, California*, Eler & Kalinowski, Inc., September 2014.
- EPA, 2014. *Regional Screening Level (RSL) Industrial Air Supporting Table (TR=1E-6, HQ=1) May 2014*, United States Environmental Protection Agency, May 2014.
http://www.epa.gov/reg3hwmd/risk/human/rb-concentration_table/Generic_Tables/docs/indair_sl_table_run_MAY2014.pdf
- PRC, 1996. *Station-Wide Remedial Investigation Report for Moffett Federal Airfield*, PRC Environmental Management, 21 May 1996.
- Water Board, 2003. *Closure Letter for Underground Storage Tank 2, Site 19, Moffett Federal Airfield, Moffett Field, California (Water Board Case No. 43D9039)* California Regional Water Quality Control Board, San Francisco Bay Region, May 2003.
- Water Board, 2008. *Comments on Draft Final Phase II Basewide Tank Closure Report, NAS Moffett Field, Moffett Field, California*, California Regional Water Quality Control Board, San Francisco Bay Region, May 2008.
- Water Board, 2013. *Environmental Screening Levels, Interim Final = December 2013*, California Regional Water Quality Control Board, San Francisco Bay Region, December 2013.

TABLE 1
Sub-Slab Vapor Probe Installation Activities (a)
 Hangars 2 and 3, Former NAS Moffett Field, Mountain View, California

Hangar	Sample Location	Area	Trusses	Approximate Distance from Nearest Wall(s)	Location Occupancy Status	Approximate Slab Thickness (inches) (b)	Approximate Drilled Depth (inches below top of slab) (c)	Installation Remarks
2	H2-1	Main Deck	T9-T10	133' west from interior east wall	Main Deck	7	18	
2	H2-2	Room on SW side	T9-T10	9' west from interior west wall/ 4' south from north wall of room	Unoccupied room	6	20.5	Base rock/sandy soil observed below slab
2	H2-3	Main Deck	T14-T15	46' east from interior west wall	Main Deck	9.5	16	
2	H2-4	Main Deck	T26-T27	62' west from interior east wall	Inside unoccupied fenced area on Main Deck	8 to 10	16	
2	H2-5	Main Deck	T39-T40	169' west from interior east wall/ 62' east from interior west wall	Main Deck	7	18	
2	H2-6	Room on NW side	T42-T43	18' west from interior west wall/ 2' south from north wall of room	Main Deck	NR	NR	
2	H2-7	Main Deck	T48-T49	84' west from interior east wall/ 73' south from north hangar door	Main Deck	NR	18	Base rock/clay observed below slab
2	H2-8	Room 1074A on NE side	T43-T44	12.6' west from exterior east wall/ 9.5' south from north wall of room	Unoccupied room	5.5	17	Base rock/Bay mud observed below slab
2	H2-9	Room 1066 on NE side	T39-T40	3.1' west from exterior east wall/ 6.1' south from north wall of room	Temporarily occupied room; actively used by wood inspection team	6	16	Base rock/Bay mud observed below slab
2	H2-10	Main Deck	T26-T27	190' west from interior east wall/ 43' east from interior west wall	Main Deck	7	18	
3	H3-1	First room on SW side	T1-T2	2' east inside doorway	Unoccupied; used for storage of light fixtures	7.5	28	Some base rock/approximately 6 inches of void space observed under slab
3	H3-2	Main Deck	T2-T3	84' west from interior east wall/ 41' north from south hangar door	Main Deck	7.5	18	
3	H3-3	Main Deck	T6-T7	63' east from interior west wall	Main Deck	7.5	19	
3	H3-4	Main Deck	T15-T16	46' west from interior east wall	Main Deck	10	18	
3	H3-5	Restroom on SW Side	T17-T18	20' west from interior west wall/ 6' north from south wall of room	Active restroom	7.5	20	Some base rock/approximately 6 inches of void space observed under slab
3	H3-6	Main Deck	T21-T22	87' west from interior east wall	Main Deck	9.5	19	
3	H3-7	Main Deck	T25-T26	101' east from interior west wall	Main Deck	7	19.5	
3	H3-8	Main Deck	T31-T32	43' east from interior west wall	Main Deck	8	19	
3	H3-9	Main Deck	T37-T38	61' east from interior west wall	Main Deck	8	19	
3	H3-10	Restroom on NW side	T38-T39	2.5' east from exterior west wall/ 11' north from south wall of room	Inactive restroom	7.5	21	Base rock/wet clay/sand observed below slab
3	H3-11	Main Deck	T45-T46	43' east from interior west wall	Main Deck	8	19	
3	H3-12	Main Deck	T46-T45	56' west from interior east wall	Main Deck	10	20	
3	H3-13	Main Deck	T48-T49	58' west from interior east wall	Main Deck	9	20	Base rock/Bay mud observed below slab
3	H3-14	Main Deck	T49-T50	111' east from interior west wall/ 48' south from north hangar door	Main Deck	7.5	19	Base rock/Bay mud observed below slab
3	H3-15	Room on SE side	T2-T3	2' south from north doorway	Unoccupied room with large paint room or testing booth	5	21	Base rock/Bay mud observed below slab
3	H3-16	Room on SE side	T1-T2	10' west from exterior east wall/ 14' south from north wall of room	Unoccupied room near unoccupied welding area	5	20	Sandy soil observed below slab
3	H3-17	Room on SE side	T8-T9	50' west from exterior east wall/ 13' south from north wall of room	Unoccupied room with a wire cage enclosure	5	21	Base rock/Bay mud observed below slab
3	H3-18	Room on SE side	T8-T9	12' west from exterior east wall/ 11' south from north wall of room	Unoccupied room	5	21	Base rock/Bay mud observed below slab

TABLE 1
Sub-Slab Vapor Probe Installation Activities (a)
 Hangars 2 and 3, Former NAS Moffett Field, Mountain View, California

Hangar	Sample Location	Area	Trusses	Approximate Distance from Nearest Wall(s)	Location Occupancy Status	Approximate Slab Thickness (inches) (b)	Approximate Drilled Depth (inches below top of slab) (c)	Installation Remarks
3	H3-19	Breezeway on SE side	T11-T12	42' west from exterior east wall/ 5' south of door to room 134	Breezeway	5	21	Base rock/Bay mud observed below slab
3	H3-20	Room on SE side	T17-T18	50' west from exterior east wall/ 10' north from south wall of room	Unoccupied room; accessed through a door outside the eastern side of Hangar 3	5	20	Base rock/Bay mud observed below slab
3	H3-21	Room on SE side	T18-T19	13' west from exterior east wall/ 24' north from south wall of room	Inactive paint booth; accessed through a door outside the eastern side of Hangar 3	5	19	Base rock/Bay mud observed below slab
3	H3-22	Large Room through CDF Rooms on SE side	T18-T24	40' west from exterior east wall/ 55' south from north wall of room	Occupied room; restricted access	5	20	Base rock/Bay mud observed below slab
3	H3-23	Large Room through CDF Rooms on SE side	T18-T24	5' west from exterior east wall/ 4' north from south wall of room	Occupied room; restricted access	5	20	Base rock/Bay mud observed below slab
3	H3-24	Large Room through CDF Rooms on SE side	T18-T24	5' west from exterior east wall/ 36' south from north wall of room	Occupied room; restricted access	5	19.5	
3	H3-25	Large Room through CDF Rooms on SE side	T18-T24	45' west from exterior east wall/ 19' south from north wall of room	Occupied room; restricted access	5	20	Bay mud observed directly below slab
3	H3-26	Large Room through CDF Rooms on SE side	T18-T24	23' west from exterior east wall/ 11' south from north wall of room	Occupied room; restricted access	5	19	Base rock/Bay mud observed below slab
3	H3-27	Room on NE side	T30-T31	10' east from interior east wall/ 2' north from south wall of room	Unoccupied kitchen	8	20	
3	H3-28	Room on NE side	T31-T33	19' east from interior east wall/ 3' north from south wall of room	Unoccupied cafeteria	9	22	Base rock/Bay mud observed below slab
3	H3-29	Room on NE Side	T31-T32	35' east from interior east wall/ 5' south from north wall of room	Unoccupied room near the inactive kitchen and H3-27	5	20	Base rock/Bay mud observed below slab
3	H3-30	Locker Room on NE side (through Room 131 RQs)	T38-T39	42' west of east room wall	Occupied locker room; restricted access	5	20	Base rock/Bay mud observed below slab
3	H3-31	Hallway on NE side	T39-T40	In front of Room 139	Occupied area used by 129th RQW Air National Guard	5	20	Base rock/Bay mud observed below slab
3	H3-32	Room 129 on NE side	T45	7' west from small rollup door on east wall	Occupied storage/equipment room used by 129th RQW Air National Guard; access restricted	5	20	Approx. 6" void space observed directly under slab
3	H3-33	Room 120A on NE side	T42-T43	8' west from exterior east wall in center of room	Occupied storage/equipment room used by 129th RQW Air National Guard; access restricted	5	24	Base rock/sandy soil and bay mud at bottom of hole
3	H3-34	Room on NE Side	T45	14' east from east wall of room/ 22' from doorway	Occupied storage/equipment room used by 129th RQW Air National Guard; access restricted	5	19	
3	H3-35	Propulsion Shop on NE Side	T47-T51	40' west from exterior east wall/ 74' south from exterior north wall	Occupied room used by 129th RQW Air National Guard; access restricted	7	22	Base rock/Bay mud observed below slab
3	H3-36	Propulsion Shop on NE Side	T47-T51	6' west from exterior east wall/ 62' south from exterior north wall	Occupied room used by 129th RQW Air National Guard; access restricted	5	21	
3	H3-37	Propulsion Shop on NE Side	T47-T51	34' west from exterior east wall/ 43' south from exterior north wall	Occupied room used by 129th RQW Air National Guard; access restricted	6	21	Base rock/Bay mud observed below slab
3	H3-38	Propulsion Shop on NE side	T47-T51	17' west from exterior east wall/ 16' south from exterior north wall	Occupied room used by 129th RQW Air National Guard; access restricted	6	21	Base rock/Bay mud observed below slab
3	H3-39	Propulsion Shop on NE side	T47-T51	44' west from exterior east wall/ 14' south from exterior north wall	Occupied room used by 129th RQW Air National Guard; access restricted	6	22	Base rock/Bay mud observed below slab
3	H4-40	Propulsion Shop Computer Lab on NE side	T47-T51	78' west from exterior east wall/ 41' south from exterior north wall	Occupied room used by 129th RQW Air National Guard; access restricted	5	20	Base rock/Gravel and bay mud observed below slab

Abbreviations

': feet
 NE: northeast
 NW: northwest
 RQW: Rescue Wing
 NAS: Naval Air Station
 NR: not recorded
 SW: southwest

Notes

- (a) Sub-slab vapor probes installed 25 through 29 August 2014.
- (b) Based on field observations while drilling with the roto-hammer, the base rock may have been a compacted crushed rock material. Generally, the thickness of this material was estimated as being approximately 6 inches thick.
- (c) The hole for the sub-slab vapor probe was drilled until native material was observed in the cuttings. The silicone stopper was typically installed approximately 5 inches below the top of the concrete slab. The bottom of the stainless steel tubing for sub-slab vapor probe was positioned approximately 2 inches above the bottom of the drilled hole.

TABLE 2
Analytical Data for VOCs in Sub-Slab Vapor Samples (a)
 Hangars 2 and 3, Former NAS Moffett Field, Mountain View, California

Sub-Slab Sample ID	Sample Collection Date	Analytical Results in ug/m ³ (b) (c)															Leak-Check Compound TeFA (ppmv)	
		TCE	PCE	Carbon tetrachloride	Chloroform	Freon 113	Freon 11	1,1,1-TCA	Methylene chloride	Benzene	Ethylbenzene	Toluene	m,p-Xylene	o-Xylene	1,2,4-TMB	1,3,5-TMB		Styrene
H2-SG-01	8/27/14	21.4	103	<6.29	<4.88	1,200	11.0	<5.46	7.33	<3.19	<4.34	<3.77	<4.34	<4.34	<4.92	<4.92	<4.26	<10.0
H2-SG-01Dupe	8/27/14	20.9	104	<6.29	<4.88	1,070	8.43	<5.46	5.04	<3.19	<4.34	<3.77	<4.34	<4.34	<4.92	<4.92	<4.26	<10.0
H2-SG-02	9/3/14	90.0	187	319	59.3	8.97	<5.62	<5.46	<3.47	<3.19	<4.34	<3.77	<4.34	<4.34	<4.92	<4.92	<4.26	<10.0
H2-SG-03 (e)	8/27/14	<5,370	<6,780	<6,290	6,760	545,000	<5,620	<5,460	<3,470	<3,190	<4,340	<3,770	<4,340	<4,340	<4,920	<4,920	<4,260	111
H2-SG-04	8/27/14	<5.37	<6.78	<6.29	<4.88	115	<5.62	<5.46	<3.47	<3.19	<4.34	<3.77	<4.34	<4.34	<4.92	<4.92	<4.26	<10.0
H2-SG-05	8/28/14	<26.9	<33.9	<31.5	<24.4	3,020	<28.1	286	<17.4	<16.0	<21.7	<18.8	<21.7	<21.7	<24.6	<24.6	<21.3	<10.0
H2-SG-06	9/3/14	<5.37	<6.78	<6.29	<4.88	<7.66	<5.62	<5.46	<3.47	<3.19	<4.34	<3.77	<4.34	<4.34	<4.92	<4.92	<4.26	<10.0
H2-SG-07	8/28/14	<430	<543	1,950	10,400	119,000	<450	<437	<278	<256	<347	<301	<347	<347	<393	<393	<341	<10.0
H2-SG-08	9/3/14	<5.37	25.4	<6.29	<4.88	266	<5.62	326	<3.47	<3.19	<4.34	<3.77	<4.34	<4.34	<4.92	<4.92	<4.26	<10.0
H2-SG-09	8/28/14	11.3	<6.78	12.8	<4.88	<7.66	<5.62	66.8	<3.47	<3.19	<4.34	<3.77	<4.34	<4.34	<4.92	<4.92	<4.26	<10.0
H2-SG-10	9/3/14	<5.37	<6.78	<6.29	<4.88	<7.66	<5.62	<5.46	<3.47	<3.19	<4.34	<3.77	<4.34	<4.34	<4.92	<4.92	<4.26	<10.0
H3-SG-01	9/3/14	<5.37	<6.78	<6.29	<4.88	<7.66	<5.62	<5.46	<3.47	<3.19	<4.34	<3.77	<4.34	<4.34	<4.92	<4.92	<4.26	<10.0
H3-SG-02	9/2/14	<5.37	<6.78	<6.29	<4.88	37.6	<5.62	<5.46	<3.47	<3.19	<4.34	<3.77	<4.34	<4.34	<4.92	<4.92	<4.26	<10.0
H3-SG-03	9/2/14	<107	<136	<126	<97.7	10,200	<112	<109	<69.5	<63.9	<86.8	<75.4	<86.8	<86.8	<98.3	<98.3	<85.2	<10.0
H3-SG-03Dupe	9/2/14	<107	<136	<126	<97.7	8,520	<112	<109	<69.5	<63.9	<86.8	<75.4	<86.8	<86.8	<98.3	<98.3	<85.2	14.0
H3-SG-04	9/2/14	<215	1,240	<252	<195	55,600	<225	2,940	<139	<128	<174	<151	<174	<174	<197	<197	<170	<10.0
H3-SG-05	9/3/14	<5.37	665	25.9	<4.88	<7.66	<5.62	9.00	<3.47	<3.19	<4.34	<3.77	<4.34	<4.34	<4.92	<4.92	<4.26	<10.0
H3-SG-06	9/2/14	<13.4	<17.0	<15.7	<12.2	291	<14.0	1,810	<8.68	<7.99	<10.9	<9.42	<10.9	<10.9	<12.3	<12.3	<10.6	<10.0
H3-SG-07	9/2/14	35.5	161	<6.29	<4.88	<7.66	<5.62	8.24	<3.47	<3.19	<4.34	<3.77	<4.34	<4.34	<4.92	<4.92	<4.26	<10.0
H3-SG-08	9/2/14	<107	15,500	<126	<97.7	2,880	<112	<109	<69.5	<63.9	<86.8	<75.4	<86.8	<86.8	<98.3	<98.3	<85.2	<10.0
H3-SG-08Dupe	9/2/14	<107	12,300	<126	<97.7	2,470	<112	<109	<69.5	<63.9	<86.8	<75.4	<86.8	<86.8	<98.3	<98.3	<85.2	<10.0
H3-SG-09	9/2/14	<53.7	<67.8	<62.9	<48.8	3,810	<56.2	<54.6	<34.7	<31.9	<43.4	<37.7	<43.4	<43.4	<49.2	<49.2	<42.6	<10.0
H3-SG-10	9/3/14	<5.37	<6.78	<6.29	<4.88	<7.66	<5.62	<5.46	<3.47	<3.19	<4.34	<3.77	<4.34	<4.34	<4.92	<4.92	<4.26	<10.0
H3-SG-11	9/2/14	<13.4	21.8	<15.7	<12.2	1,830	<14.0	69.8	<8.68	<7.99	<10.9	<9.42	<10.9	<10.9	<12.3	<12.3	<10.6	<10.0
H3-SG-12	9/2/14	729	<17.0	<15.7	<12.2	<19.2	<14.0	49.5	<8.68	<7.99	<10.9	<9.42	<10.9	<10.9	<12.3	<12.3	<10.6	<10.0
H3-SG-13	9/2/14	<5.37	9.63	<6.29	956	<7.66	<5.62	76.5	4.65	<3.19	<4.34	<3.77	<4.34	<4.34	<4.92	<4.92	<4.26	<10.0
H3-SG-14	9/2/14	<5.37	<6.78	<6.29	<4.88	<7.66	<5.62	<5.46	<3.47	<3.19	<4.34	<3.77	<4.34	<4.34	<4.92	<4.92	<4.26	<10.0
H3-SG-15	9/3/14	31.6	256	9.12	<4.88	183	<5.62	68.1	<3.47	6.52	<4.34	16.9	10.5	<4.34	<4.92	31.1	8.52	22.7
H3-SG-16	9/3/14	26.7	108	<6.29	<4.88	25.0	<5.62	300	<3.47	<3.19	<4.34	<3.77	<4.34	<4.34	<4.92	<4.92	6.26	<10.0
H3-SG-17	9/3/14	45.0	183	<6.29	<4.88	34.2	<5.62	41.0	<3.47	5.24	<4.34	<3.77	<4.34	<4.34	<4.92	<4.92	7.75	<10.0
H3-SG-18	9/3/14	27.8	226	<6.29	<4.88	77.3	<5.62	106	<3.47	<3.19	<4.34	4.41	10.4	6.86	8.26	7.37	<4.26	<10.0
H3-SG-19	9/3/14	<5.37	<6.78	<6.29	<4.88	22.4	<5.62	<5.46	<3.47	<3.19	<4.34	<3.77	<4.34	<4.34	<4.92	<4.92	<4.26	<10.0
H3-SG-20	9/2/14	2,500	98.2	<31.5	<24.4	<38.3	<28.1	<27.3	26.2	<16.0	<21.7	<18.8	<21.7	<21.7	<24.6	<24.6	<21.3	<10.0
H3-SG-21	9/2/14	910	153	<12.6	<9.77	1,420	<11.2	11.0	<6.95	<6.39	<8.68	<7.54	<8.68	<8.68	<9.83	<9.83	<8.52	<10.0
H3-SG-22	9/2/14	52.9	471	63.3	19.9	59.8	<5.62	73.0	<3.47	<3.19	<4.34	<3.77	<4.34	<4.34	<4.92	<4.92	<4.26	<10.0
H3-SG-22Dupe	9/2/14	52.6	513	73.2	20.9	68.2	<5.62	84.1	<3.47	<3.19	<4.34	<3.77	<4.34	<4.34	<4.92	<4.92	<4.26	<10.0
H3-SG-23	9/2/14	138	349	<6.29	<4.88	131	<5.62	<5.46	<3.47	<3.19	<4.34	6.41	8.99	7.42	123	52.1	<4.26	<10.0
H3-SG-24	9/2/14	2,270	425	<31.5	30.0	<38.3	<28.1	<27.3	<17.4	<16.0	<21.7	<18.8	<21.7	<21.7	<24.6	<24.6	<21.3	<10.0
H3-SG-25 (e)	9/2/14	<5.37	73.3	15.9	<4.88	49.0	<5.62	23.4	<3.47	<3.19	<4.34	<3.77	9.90	<4.34	<4.92	<4.92	<4.26	755
H3-SG-26	9/2/14	1,260	832	<12.6	<9.77	32.9	<11.2	49.6	<6.95	<6.39	<8.68	22.9	<8.68	<8.68	<9.83	<9.83	<8.52	<10.0
H3-SG-27	9/2/14	361	157	<6.29	<4.88	18.4	<5.62	35.9	<3.47	14.2	25.5	11.8	<4.34	<4.34	<4.92	<4.92	36.1	<10.0
Sub-Slab Vapor Screening Levels (d)		60	42	5.8	11	2,600,000	62,000	440,000	520	8.4	98	26,000	8,800	8,800	620	3,000	78,000	--

TABLE 2
Analytical Data for VOCs in Sub-Slab Vapor Samples (a)
 Hangars 2 and 3, Former NAS Moffett Field, Mountain View, California

Sub-Slab Sample ID	Sample Collection Date	Analytical Results in ug/m ³ (b) (c)															Leak-Check Compound TeFA (ppmv)	
		TCE	PCE	Carbon tetrachloride	Chloroform	Freon 113	Freon 11	1,1,1-TCA	Methylene chloride	Benzene	Ethylbenzene	Toluene	m,p-Xylene	o-Xylene	1,2,4-TMB	1,3,5-TMB		Styrene
H3-SG-28	9/2/14	294	1,790	<15.7	<12.2	48.7	<14.0	77.9	<8.68	<7.99	<10.9	<9.42	<10.9	<10.9	18.3	<12.3	<10.6	<10.0
H3-SG-29	9/2/14	1,140	3,730	<31.5	<24.4	39.5	<28.1	73.9	<17.4	<16.0	<21.7	<18.8	<21.7	<21.7	<24.6	<24.6	<21.3	<10.0
H3-SG-30	9/2/14	<5.37	97.3	<6.29	<4.88	15.1	<5.62	6.82	<3.47	<3.19	<4.34	<3.77	7.73	4.47	<4.92	<4.92	<4.26	<10.0
H3-SG-31	9/2/14	17.0	2,200	<15.7	<12.2	<19.2	<14.0	<13.6	<8.68	<7.99	<10.9	<9.42	<10.9	<10.9	<12.3	<12.3	<10.6	<10.0
H3-SG-32	9/2/14	13.5	798	<6.29	<4.88	70.9	<5.62	34.7	<3.47	<3.19	<4.34	<3.77	<4.34	<4.34	<4.92	<4.92	<4.26	<10.0
H3-SG-33	9/2/14	237	1,320	<12.6	<9.77	<15.3	<11.2	22.8	<6.95	<6.39	<8.68	<7.54	<8.68	<8.68	<9.83	<9.83	<8.52	<10.0
H3-SG-34	9/2/14	16.6	66.8	<6.29	<4.88	15.6	<5.62	29.7	<3.47	<3.19	<4.34	<3.77	<4.34	<4.34	<4.92	<4.92	<4.26	35.1
H3-SG-35	9/2/14	<13.4	47.0	<15.7	<12.2	91.9	<14.0	30.7	<8.68	<7.99	<10.9	<9.42	<10.9	<10.9	<12.3	<12.3	<10.6	<10.0
H3-SG-36	9/2/14	177	3,200	<31.5	<24.4	92.1	<28.1	187	<17.4	<16.0	<21.7	<18.8	<21.7	<21.7	<24.6	<24.6	<21.3	<10.0
H3-SG-36Dupe	9/2/14	162	3,130	<31.5	<24.4	87.7	<28.1	183	<17.4	<16.0	<21.7	<18.8	<21.7	<21.7	<24.6	<24.6	<21.3	<10.0
H3-SG-37	9/2/14	178	22.7	<6.29	<4.88	55.5	7.47	35.7	<3.47	<3.19	<4.34	<3.77	<4.34	<4.34	<4.92	<4.92	<4.26	<10.0
H3-SG-38	9/2/14	<5.37	424	<6.29	<4.88	112	5.96	43.1	<3.47	<3.19	<4.34	<3.77	<4.34	<4.34	<4.92	<4.92	<4.26	<10.0
H3-SG-39	9/2/14	<5.37	139	<6.29	<4.88	112	11.8	261	<3.47	<3.19	<4.34	<3.77	<4.34	<4.34	<4.92	<4.92	4.98	<10.0
H3-SG-40	9/2/14	<5.37	15.3	<6.29	<4.88	9.73	<5.62	16.5	<3.47	<3.19	<4.34	<3.77	<4.34	<4.34	<4.92	<4.92	<4.26	<10.0
Maximum Detected		2,500	15,500	1,950	10,400	545,000	12	2,940	26	14	26	23	11	7	123	52	36	--
<i>Sub-Slab Vapor Screening Levels (d)</i>		60	42	5.8	11	2,600,000	62,000	440,000	520	8.4	98	26,000	8,800	8,800	620	3,000	78,000	--

Abbreviations

Dupe: duplicate sample	TCE: trichloroethene	TCA: trichloroethene	U.S. EPA: United States Environmental Protection Agency
ppmv: parts per million by volume	PCE: tetrachloroethene	TMB: trimethylbenzene	
VOC: volatile organic compound	Freon 11: Trichlorofluoromethane	TeFA: 1,1,1,2-tetrafluoroethane	
ug/m ³ : micrograms per cubic meter	Freon 113: 1,1,2-Trichloro-1,2,2-trifluoroethane	NAS: Naval Air Station	

Notes

- (a) Sub-slab vapor samples were collected in SUMMA-passivated stainless steel canisters and analyzed for VOCs using U.S. EPA Method TO-15. Samples analyzed by K-Prime, Inc., Santa Rosa, CA.
- (b) **Bold** type indicates the chemical was detected in the sample above its reporting limit.
- █ indicates reported concentration exceeds sub-slab vapor screening level.
- "<" indicates the compound was not detected in the sample at a concentration above the analytical reporting limit listed after the "<" sign.
- (c) Only detected VOCs in sub-slab vapor samples are shown.
- (d) Consistent with California vapor intrusion guidance (Cal-EPA, 2011), sub-slab vapor screening levels are calculated to be 20 times the screening criteria for indoor air at commercial/industrial properties. Indoor air criteria are from RWQCB (2013) and U.S. EPA (2014). Where screening criteria were unavailable in either of these sources, the screening criteria were obtained (if available) from Cal-EPA (2013).
- (e) Analytical results for samples H2-SG-03 and H3-SG-25 may be biased low. Leak check compound TeFA was detected in samples H2-SG-03 and H3-SG-25 at approximately 6% and 8%, respectively.

References

Cal-EPA, 2011. *Guidance for the Evaluation and Mitigation of Subsurface Vapor Intrusion to Indoor Air (Vapor Intrusion Guidance)*, California Environmental Protection Agency, Department of Toxic Substances Control, October 2011.

Cal-EPA, 2013. *Human Health Risk Assessment (HHRA) Note Number 3*, California Environmental Protection Agency, Department of Toxic Substances Control, Office of Human and Ecological Risk (HERO), May 21, 2013.

RWQCB, 2013. *Update to Environmental Screening Levels*, California Regional Water Quality Control Board, Region 2, December 23, 2013.

U.S. EPA, 2014 (RSLs): *Regional Screening Level (RSL) Summary Table (TR = 10-6; HQ = 1) May 2014*, United States Environmental Protection Agency.

TABLE 3
Leak Check Gas (TeFA) Concentrations in Shroud Samples (a)
 Hangars 2 and 3, Former NAS Moffett Field, Mountain View, California

Sampling Location	Sample ID	Sample Collection Date	1,1,1,2-Tetrafluoroethane (ppmv)
H2-SG-03	H2-Shroud-SG-03	8/27/14	1,880
H2-SG-10	H2-Shroud-SG-10	9/3/14	6,760
H3-SG-01	H3-Shroud-SG-01	9/3/14	10,400
H3-SG-02	H3-Shroud-SG-02	9/2/14	7,010
H3-SG-05	H3-Shroud-SG-05	9/3/14	13,400
H3-SG-06	H3-Shroud-SG-06	9/2/14	2,010
H3-SG-10	H3-Shroud-SG-10	9/3/14	6,220
H3-SG-12	H3-Shroud-SG-12	9/2/14	19,800
H3-SG-17	H3-Shroud-SG-17	9/3/14	7,380
H3-SG-20	H3-Shroud-SG-20	9/2/14	6,360

Abbreviations

NAS: Naval Air Station

ppmv: parts per million by volume

SSVP: sub-slab vapor probe

TeFA: 1,1,1,2-tetrafluoroethane

U.S. EPA: United States Environmental Protection Agency

Notes

(a) Shroud samples consist of air samples collected from within the sampling shroud that was placed around the SSVP at the sampling location during sample collection. TeFA was injected inside the shroud as a leak check gas. Each shroud air sample was collected in a SUMMA-passivated stainless steel canister concurrent with the collection of a sub-slab vapor sample at the SSVP. The shroud air samples were analyzed for TeFA using U.S. EPA Method TO-3. Samples analyzed by K-Prime, Inc., Santa Rosa, CA.



Notes:

1. All locations are approximate.
2. Basemap source: Rand McNally San Francisco Bay Area Regional Map, dated 2013.

Abbreviations:

NAS = Naval Air Station

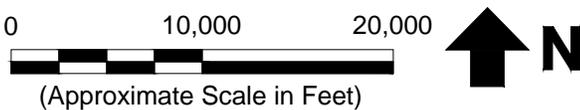
Erler & Kalinowski, Inc.

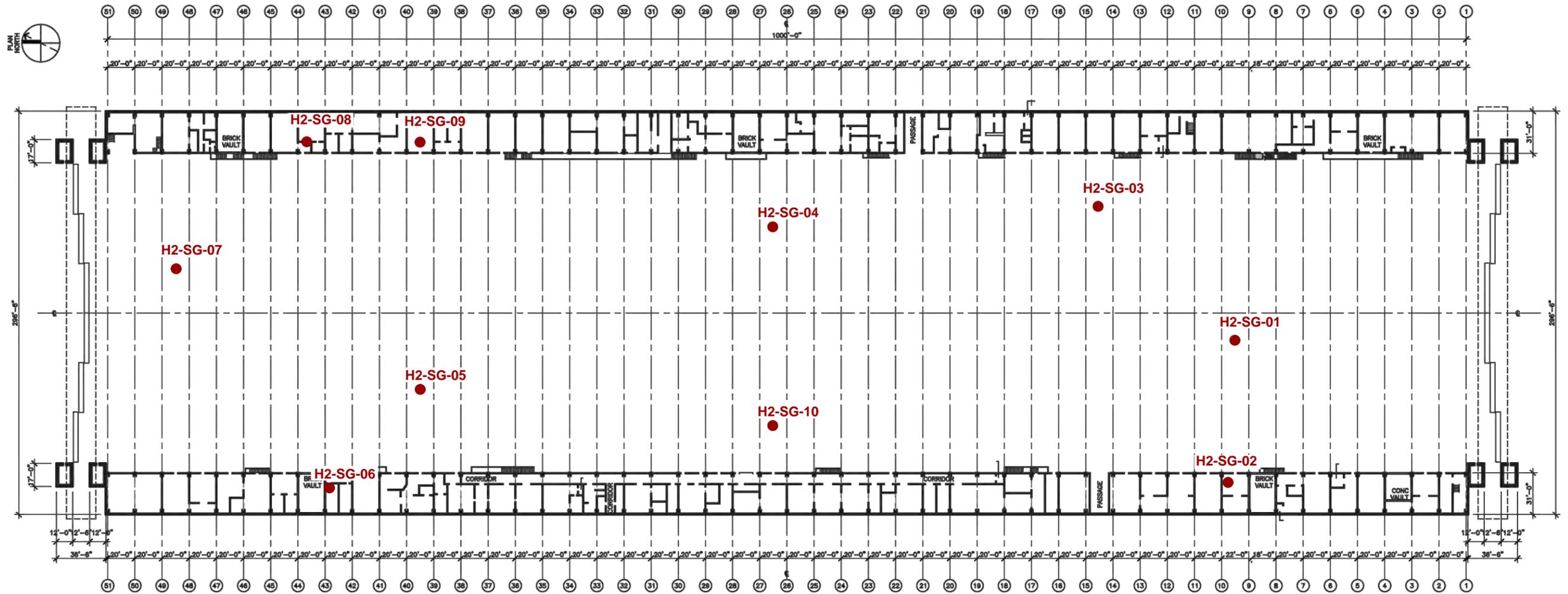
Regional Site Map

Former NAS Moffett Field
Mountain View, CA

September 2014
EKI B20019.15

Figure 1





Legend:

- H2-SG-01 Sub-Slab Vapor Probe Location

Notes:

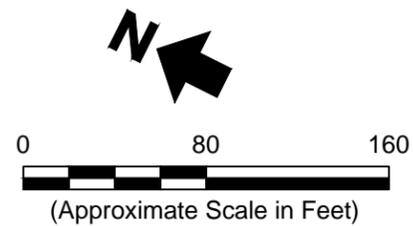
1. All locations are approximate based on field map and truss locations.
2. Base figure from: Rehabilitation of Hangars 2 and 3 Basis of Design Document, Project Team Draft 3.5, 29 August 2014.

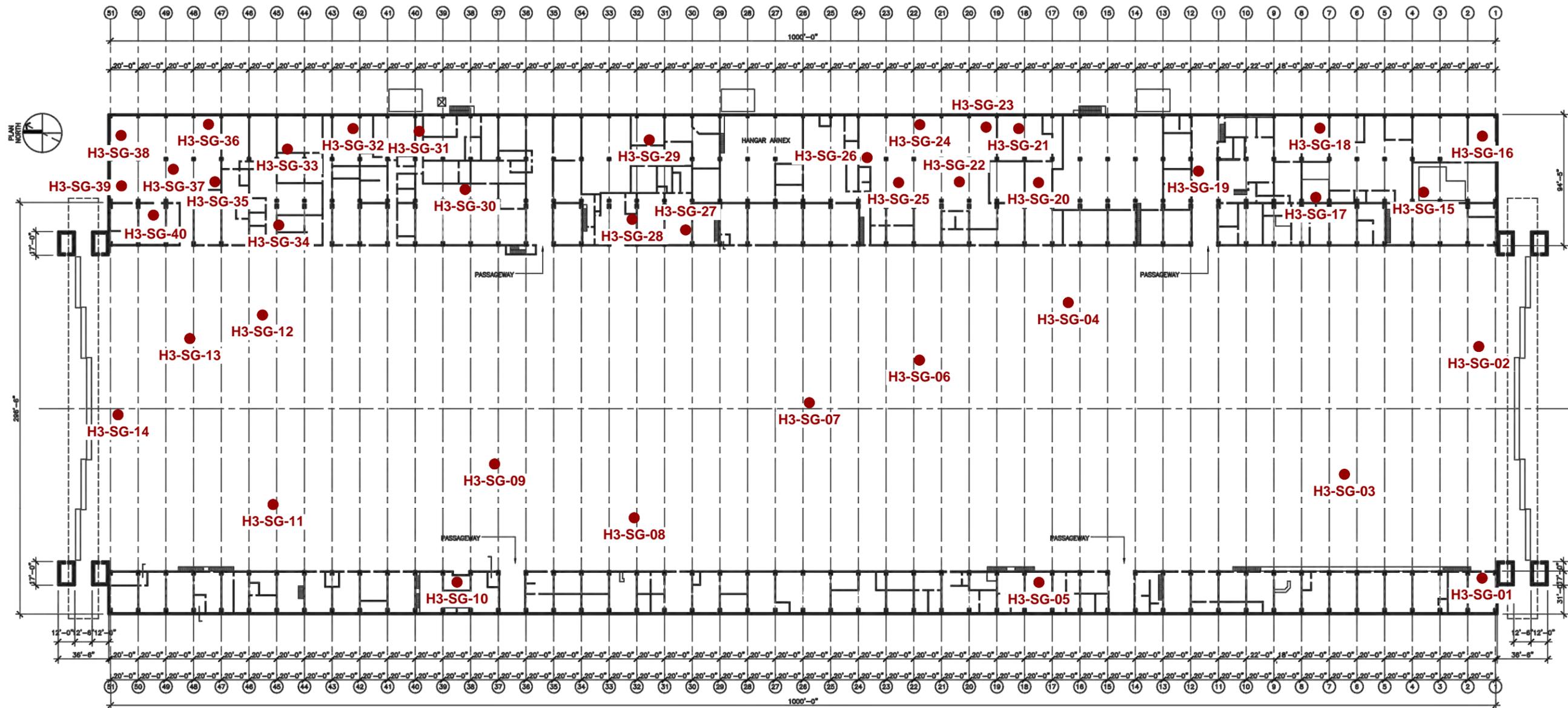
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Sub-Slab Vapor Sampling Locations in Hangar 2

Former NAS Moffett Field
Mountain View, CA
September 2014
EKI B20019.15

Figure 2





Legend:

- H3-SG-01 Sub-Slab Vapor Probe Location

Notes:

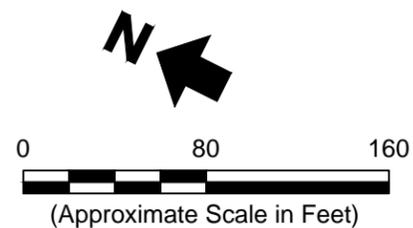
1. All locations are approximate based on field map and truss locations.
2. Base figure from: Rehabilitation of Hangars 2 and 3 Basis of Design Document, Project Team Draft 3.5, 29 August 2014.

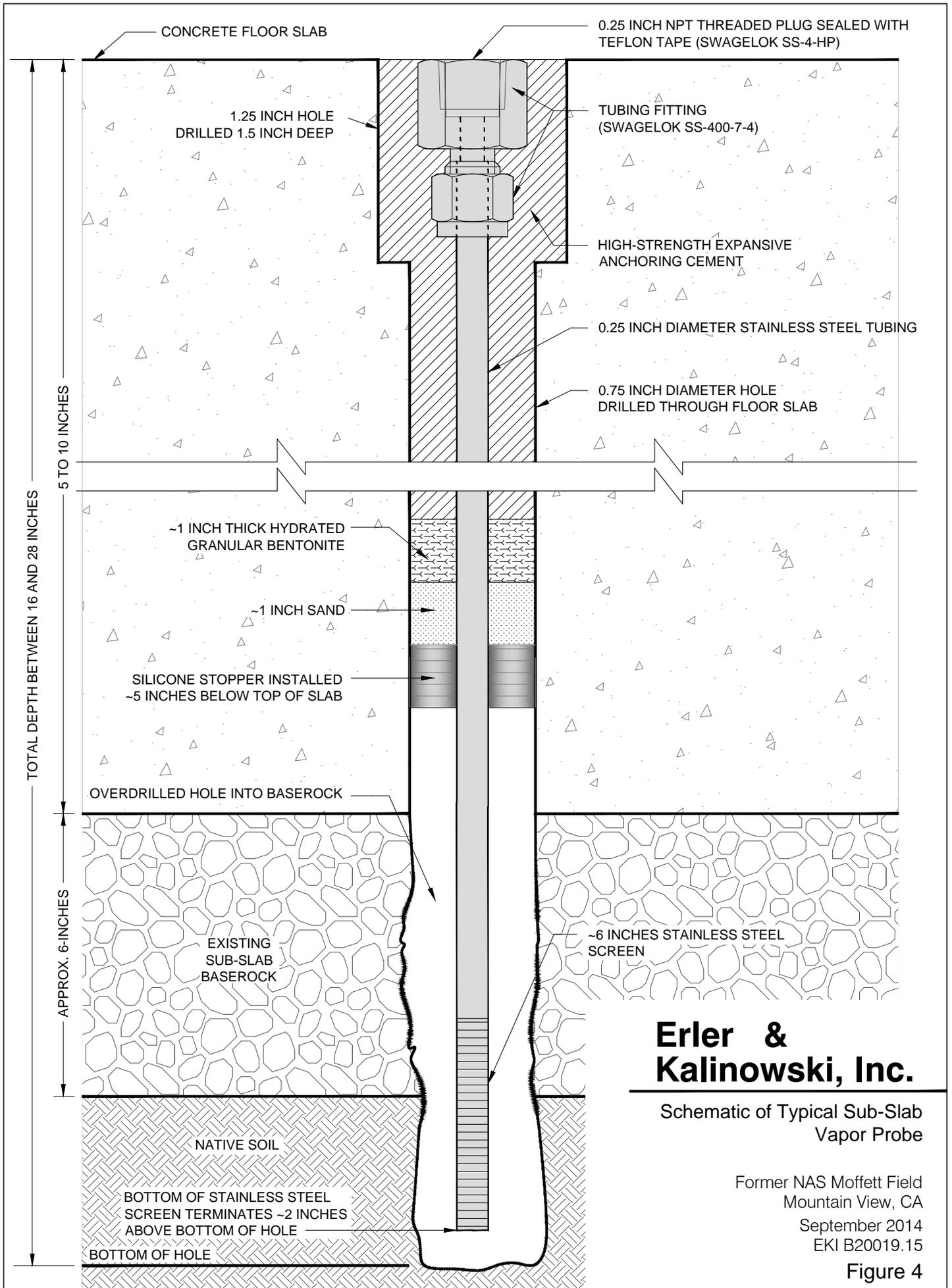
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Sub-Slab Vapor Sampling Locations in Hangar 3

Former NAS Moffett Field
 Mountain View, CA
 September 2014
 EKI B20019.15

Figure 3





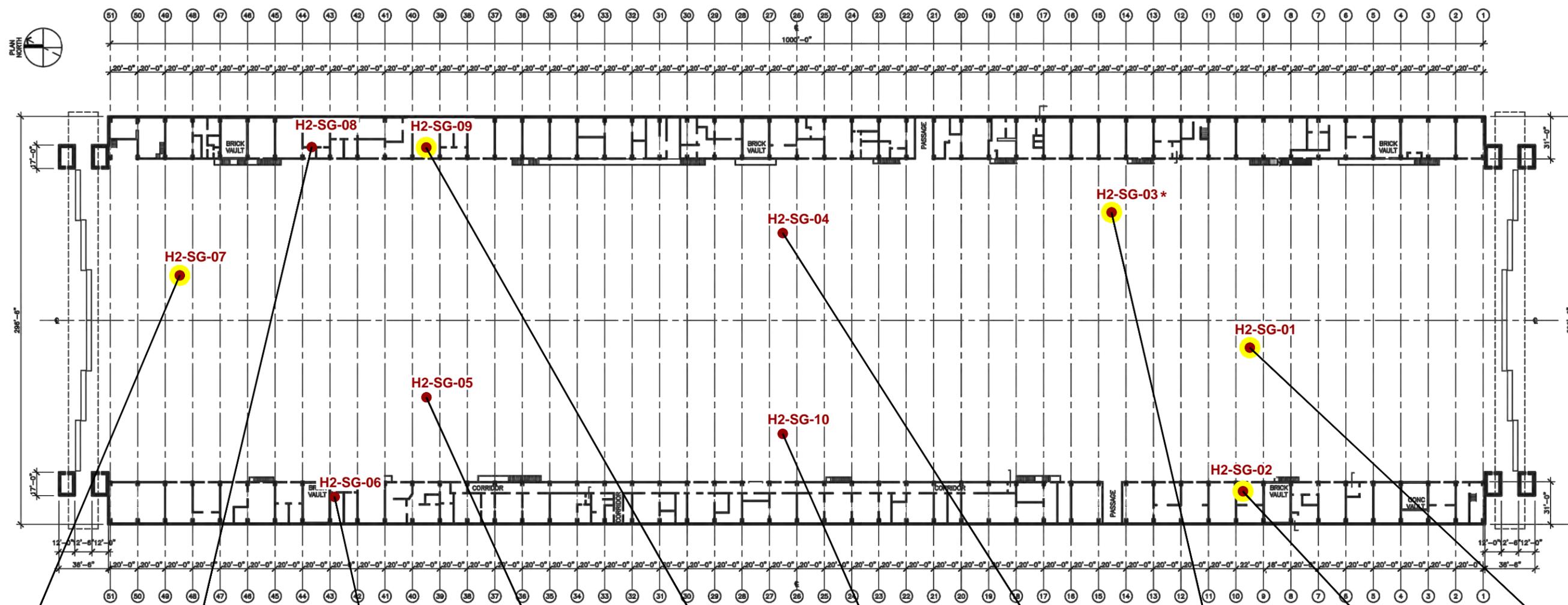
Erler & Kalinowski, Inc.

Schematic of Typical Sub-Slab Vapor Probe

Former NAS Moffett Field
Mountain View, CA

September 2014
EKI B20019.15

Figure 4



Location ID	H2-SG-07	Location ID	H2-SG-08	Location ID	H2-SG-06	Location ID	H2-SG-05	Location ID	H2-SG-09	Location ID	H2-SG-10	Location ID	H2-SG-04	Location ID	H2-SG-03	Location ID	H2-SG-02	Location ID	H2-SG-01
Date	8/28/14	Date	9/3/14	Date	9/3/14	Date	8/28/14	Date	8/28/14	Date	9/3/14	Date	8/27/14	Date	8/27/14	Date	9/3/14	Date	8/27/14
TCE	<430	TCE	<5.37	TCE	<5.37	TCE	<26.9	TCE	11.3	TCE	<5.37	TCE	<5.37	TCE	<5,370	TCE	90	TCE	21.4 (20.9)
PCE	<543	PCE	25.4	PCE	<6.78	PCE	<33.9	PCE	<6.78	PCE	<6.78	PCE	<6.78	PCE	<6,780	PCE	187	PCE	103 (104)
CT	1,950	CT	<6.29	CT	<6.29	CT	<31.5	CT	12.8	CT	<6.29	CT	<6.29	CT	<6,290	CT	319	CT	<6.29 (<6.29)
Chloroform	10,400	Chloroform	<4.88	Chloroform	<4.88	Chloroform	<24.4	Chloroform	<4.88	Chloroform	<4.88	Chloroform	<4.88	Chloroform	6,760	Chloroform	59.3	Chloroform	<4.88 (<4.88)

Legend:

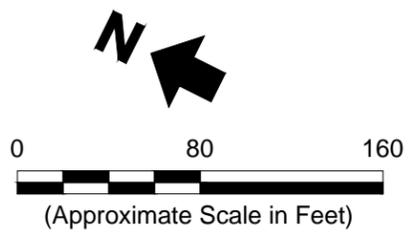
- H2-SG-01 Sub-Slab Vapor Probe Location
- Exceeds Screening Level

Abbreviations:

- CT = carbon tetrachloride
- PCE = tetrachloroethene
- TCE = trichloroethene
- TeFA = 1,1,1,2-tetrafluoroethane

Notes:

- All locations are approximate based on field map and truss locations.
- Base figure from: Rehabilitation of Hangars 2 and 3 Basis of Design Document, Project Team Draft 3.5, 29 August 2014.
- "**Bold**" values are detections; shaded values exceed sub-slab vapor screening levels (sub-slab screening levels are presented in Table 2 of the Hangar 2 and Hangar 3 Sub-Slab Vapor and Indoor Air Investigation Report); results presented in parenthesis are duplicate sample results.
- All concentration results are in micrograms per cubic meter ("ug/m³").
- No other chemicals were detected above screening levels in the Hangar 2 sub-slab vapor samples.
- "*" H2-SG-03 analytical results may be biased low. Leak check compound TeFA was detected in the sample at approximately 6%.

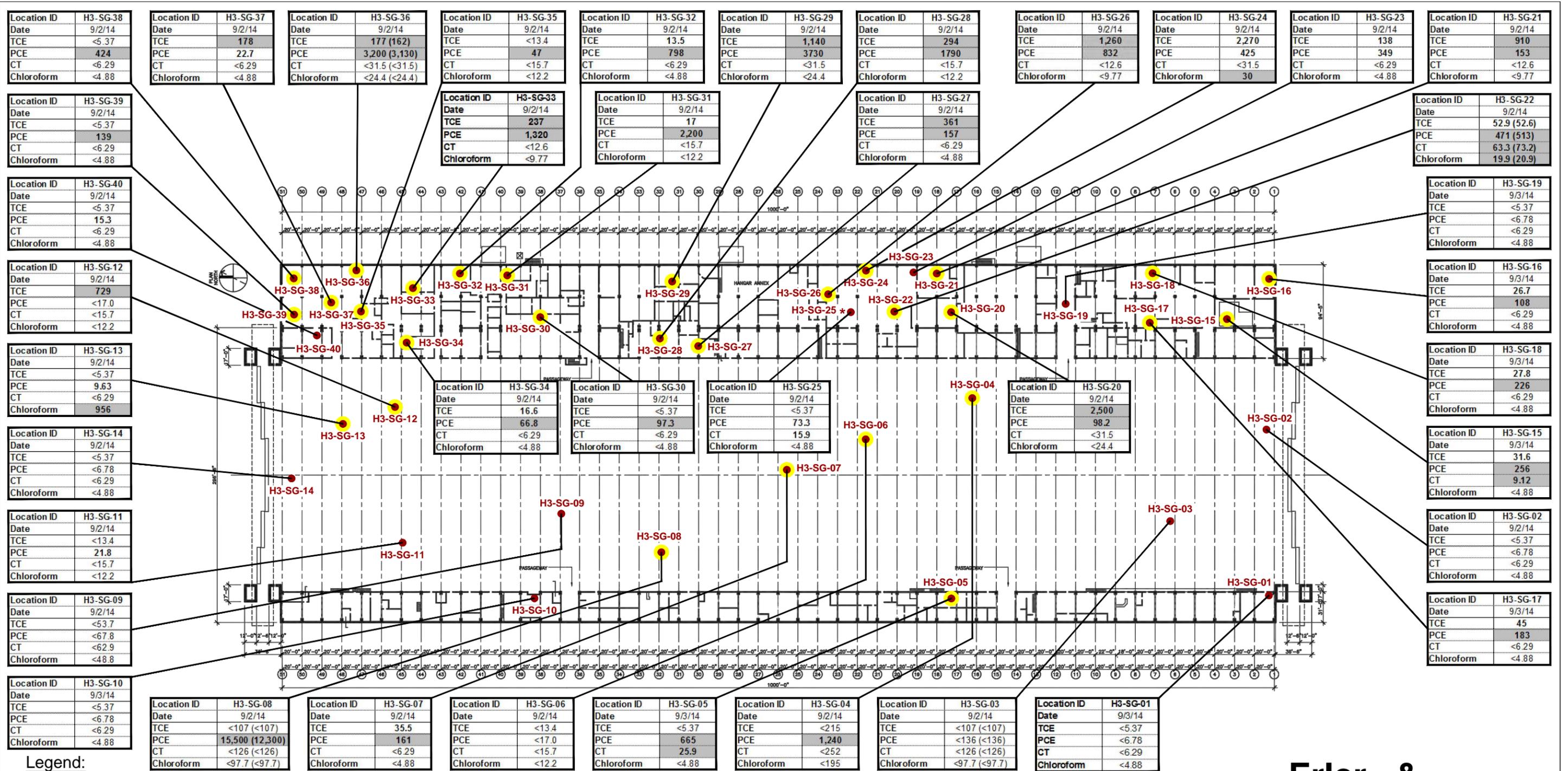


Erler & Kalinowski, Inc.

Sub-Slab Vapor TCE, PCE, Carbon Tetrachloride and Chloroform⁵ Concentrations in Hangar 2

Former NAS Moffett Field
Mountain View, CA
September 2014
EKI B20019.15

Figure 5



Legend:

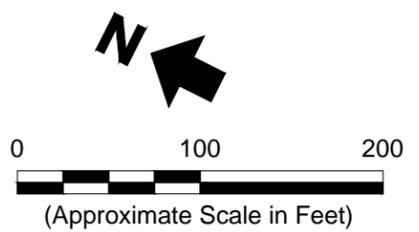
- H3-SG-01 Sub-Slab Vapor Probe Location
- Exceeds Screening Level

Abbreviations:

- CT = carbon tetrachloride
- PCE = tetrachloroethene
- TCE = trichloroethene
- TeFA = 1,1,1,2-tetrafluoroethane

Notes:

1. All locations are approximate based on field map and truss locations.
2. Base figure from: Rehabilitation of Hangars 2 and 3 Basis of Design Document, Project Team Draft 3.5, 29 August 2014.
3. **"Bold"** values are detections; shaded values exceed sub-slab vapor screening levels (sub-slab screening levels are presented in Table 2 of the Hangar 2 and Hangar 3 Sub-Slab Vapor and Indoor Air Investigation Report); results presented in parenthesis are duplicate sample results.
4. All concentration results are in micrograms per cubic meter ("ug/m³").
5. Benzene was detected above its screening level at H3-SG-27. No other chemicals were detected above their respective screening levels in the Hangar 3 sub-slab vapor samples.
6. "*" H3-SG-25 analytical results may be biased low. Leak check compound TeFA was detected in the sample at approximately 8%.



Erler & Kalinowski, Inc.

Sub-Slab Vapor TCE, PCE, Carbon Tetrachloride, and Chloroform⁵ Concentrations in Hangar 3

Former NAS Moffett Field
Mountain View, CA
September 2014
EKI B20019.15

Figure 6

G:\B20019.15\2014-09\Sub-Slab Investigation Report\Figure 5 and 6.dwg 9/19/14

Hangar 2 and Hangar 3
Sub-Slab Vapor Investigation Report
23 September 2014

Appendix A

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: 9/8/2014

TO: MR. BRUCE CASTLE
MS. MICHELLE KING
MR. STEVE MILLER
ERLER & KALINOWSKI, INC.
1870 OGDEN DRIVE
BURLINGAME, CA 94010

ACCT: 9115
PROJ: B20019.15

Phone: 650-292-9100
Fax: 650-552-9012
Email: bcastle@ekiconsult.com
mkking@ekiconsult.com
smiller@ekiconsult.com

FROM: Richard A. Kage1, Ph.D. *RAK 9/8/2014*
Laboratory Director

SUBJECT: LABORATORY RESULTS FOR YOUR PROJECT B20019.15

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

SAMPLE ID	TYPE	DATE	TIME	KPI LAB #
H2-SG-04	AIR	8/27/2014	11:25	124729
H2-SG-03	AIR	8/27/2014	12:09	124730
H2-SHROUD-SG-03	AIR	8/27/2014	12:09	124731
H2-SG-01	AIR	8/27/2014	12:52	124732
H2-SG-1DUPE	AIR	8/27/2014	13:04	124733
H2-SG-07	AIR	8/28/2014	08:36	124734
H2-SG-05	AIR	8/28/2014	09:01	124735
H2-SG-09	AIR	8/28/2014	09:26	124736

The above listed sample group was received on 9/2/2014 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: 9115
CLIENT PROJECT: B20019.15

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

SAMPLE ID: H2-SG-04
LAB NO: 124729
SAMPLE TYPE: AIR
DATE SAMPLED: 08/27/2014
TIME SAMPLED: 11:25
BATCH ID: 090214A1
DATE ANALYZED: 09/03/2014

COMPOUND NAME	CAS NO.	PPB (V/V)		µg/cu. m	
		MRL	SAMPLE CONC	MRL	SAMPLE CONC
DICHLORODIFLUOROMETHANE	75-71-8	1.00	ND	4.95	ND
DICHLOROTETRAFLUOROETHANE	76-14-2	1.00	ND	6.99	ND
CHLOROMETHANE	74-87-3	1.00	ND	2.07	ND
VINYL CHLORIDE	75-01-4	1.00	ND	2.56	ND
BROMOMETHANE	74-83-9	1.00	ND	3.88	ND
CHLOROETHANE	75-00-3	1.00	ND	2.64	ND
TRICHLOROFLUOROMETHANE	75-69-4	1.00	ND	5.62	ND
1,1-DICHLOROETHENE	75-35-4	1.00	ND	3.97	ND
TRICHLOROTRIFLUOROETHANE	76-13-1	1.00	15.0	7.66	115
METHYLENE CHLORIDE	75-09-2	1.00	ND	3.47	ND
TRANS-1,2-DICHLOROETHENE	156-60-5	1.00	ND	3.96	ND
1,1-DICHLOROETHANE	75-34-3	1.00	ND	4.05	ND
CIS-1,2-DICHLOROETHENE	156-59-2	1.00	ND	3.97	ND
CHLOROFORM	67-66-3	1.00	ND	4.88	ND
1,1,1-TRICHLOROETHANE	71-55-6	1.00	ND	5.46	ND
CARBON TETRACHLORIDE	56-23-5	1.00	ND	6.29	ND
1,2-DICHLOROETHANE	107-06-2	1.00	ND	4.05	ND
BENZENE	71-43-2	1.00	ND	3.19	ND
TRICHLOROETHENE	79-01-6	1.00	ND	5.37	ND
1,2-DICHLOROPROPANE	78-87-5	1.00	ND	4.62	ND
TRANS-1,3-DICHLOROPROPENE	10061-02-6	1.00	ND	4.54	ND
TOLUENE	108-88-3	1.00	ND	3.77	ND
CIS-1,3-DICHLOROPROPENE	10061-01-5	1.00	ND	4.54	ND
1,1,2-TRICHLOROETHANE	79-00-5	1.00	ND	5.46	ND
TETRACHLOROETHENE	127-18-4	1.00	ND	6.78	ND
1,2-DIBROMOETHANE	106-93-4	1.00	ND	7.68	ND
CHLOROBENZENE	108-90-7	1.00	ND	4.60	ND
ETHYLBENZENE	100-41-4	1.00	ND	4.34	ND
XYLENE (M+P)	1330-20-7	1.00	ND	4.34	ND
XYLENE (O)	95-47-6	1.00	ND	4.34	ND
STYRENE	100-42-5	1.00	ND	4.26	ND
1,1,2,2-TETRACHLOROETHANE	79-34-5	1.00	ND	6.87	ND
1,3,5-TRIMETHYLBENZENE	108-67-8	1.00	ND	4.92	ND
1,2,4-TRIMETHYLBENZENE	95-63-6	1.00	ND	4.92	ND
1,3-DICHLOROBENZENE	541-73-1	1.00	ND	6.01	ND
1,4-DICHLOROBENZENE	106-46-7	1.00	ND	6.01	ND
1,2-DICHLOROBENZENE	95-50-1	1.00	ND	6.01	ND
1,2,4-TRICHLOROBENZENE	120-82-1	2.00	ND	14.8	ND
HEXACHLOROBUTADIENE	87-68-3	1.00	ND	10.7	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: 9/8/14

K PRIME, INC.
LABORATORY REPORT

K PRIME PROJECT: 9115
CLIENT PROJECT: B20019.15

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

SAMPLE ID: H2-SG-03
LAB NO: 124730
SAMPLE TYPE: AIR
DATE SAMPLED: 08/27/2014
TIME SAMPLED: 12:09
BATCH ID: 090214A1
DATE ANALYZED: 09/03/2014

COMPOUND NAME	CAS NO.	PPB (V/V)		µg/cu. m	
		MRL	SAMPLE CONC	MRL	SAMPLE CONC
DICHLORODIFLUOROMETHANE	75-71-8	1000	ND	4950	ND
DICHLOROTETRAFLUOROETHANE	76-14-2	1000	ND	6990	ND
CHLOROMETHANE	74-87-3	1000	ND	2070	ND
VINYL CHLORIDE	75-01-4	1000	ND	2560	ND
BROMOMETHANE	74-83-9	1000	ND	3880	ND
CHLOROETHANE	75-00-3	1000	ND	2640	ND
TRICHLOROFLUOROMETHANE	75-69-4	1000	ND	5620	ND
1,1-DICHLOROETHENE	75-35-4	1000	ND	3970	ND
TRICHLOROTRIFLUOROETHANE	76-13-1	1000	71100	7660	545000
METHYLENE CHLORIDE	75-09-2	1000	ND	3470	ND
TRANS-1,2-DICHLOROETHENE	156-60-5	1000	ND	3960	ND
1,1-DICHLOROETHANE	75-34-3	1000	ND	4050	ND
CIS-1,2-DICHLOROETHENE	156-59-2	1000	ND	3970	ND
CHLOROFORM	67-66-3	1000	1380	4880	6760
1,1,1-TRICHLOROETHANE	71-55-6	1000	ND	5460	ND
CARBON TETRACHLORIDE	56-23-5	1000	ND	6290	ND
1,2-DICHLOROETHANE	107-06-2	1000	ND	4050	ND
BENZENE	71-43-2	1000	ND	3190	ND
TRICHLOROETHENE	79-01-6	1000	ND	5370	ND
1,2-DICHLOROPROPANE	78-87-5	1000	ND	4620	ND
TRANS-1,3-DICHLOROPROPENE	10061-02-6	1000	ND	4540	ND
TOLUENE	108-88-3	1000	ND	3770	ND
CIS-1,3-DICHLOROPROPENE	10061-01-5	1000	ND	4540	ND
1,1,2-TRICHLOROETHANE	79-00-5	1000	ND	5460	ND
TETRACHLOROETHENE	127-18-4	1000	ND	6780	ND
1,2-DIBROMOETHANE	106-93-4	1000	ND	7680	ND
CHLOROBENZENE	108-90-7	1000	ND	4600	ND
ETHYLBENZENE	100-41-4	1000	ND	4340	ND
XYLENE (M+P)	1330-20-7	1000	ND	4340	ND
XYLENE (O)	95-47-6	1000	ND	4340	ND
STYRENE	100-42-5	1000	ND	4260	ND
1,1,2,2-TETRACHLOROETHANE	79-34-5	1000	ND	6870	ND
1,3,5-TRIMETHYLBENZENE	108-67-8	1000	ND	4920	ND
1,2,4-TRIMETHYLBENZENE	95-63-6	1000	ND	4920	ND
1,3-DICHLOROBENZENE	541-73-1	1000	ND	6010	ND
1,4-DICHLOROBENZENE	106-46-7	1000	ND	6010	ND
1,2-DICHLOROBENZENE	95-50-1	1000	ND	6010	ND
1,2,4-TRICHLOROBENZENE	120-82-1	2000	ND	14800	ND
HEXACHLOROBUTADIENE	87-68-3	1000	ND	10700	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: 9/8/14

K PRIME, INC.
LABORATORY REPORT

K PRIME PROJECT: 9115
CLIENT PROJECT: B20019.15

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

SAMPLE ID: H2-SG-01
LAB NO: 124732
SAMPLE TYPE: AIR
DATE SAMPLED: 08/27/2014
TIME SAMPLED: 12:52
BATCH ID: 090214A1
DATE ANALYZED: 09/03/2014

COMPOUND NAME	CAS NO.	PPB (V/V)		µg/cu. m	
		MRL	SAMPLE CONC	MRL	SAMPLE CONC
DICHLORODIFLUOROMETHANE	75-71-8	1.00	ND	4.95	ND
DICHLOROTETRAFLUOROETHANE	76-14-2	1.00	ND	6.99	ND
CHLOROMETHANE	74-87-3	1.00	ND	2.07	ND
VINYL CHLORIDE	75-01-4	1.00	ND	2.56	ND
BROMOMETHANE	74-83-9	1.00	ND	3.88	ND
CHLOROETHANE	75-00-3	1.00	ND	2.64	ND
TRICHLOROFLUOROMETHANE	75-69-4	1.00	1.96	5.62	11.0
1,1-DICHLOROETHENE	75-35-4	1.00	ND	3.97	ND
TRICHLOROTRIFLUOROETHANE	76-13-1	1.00	156	7.66	1200
METHYLENE CHLORIDE	75-09-2	1.00	2.11	3.47	7.33
TRANS-1,2-DICHLOROETHENE	156-60-5	1.00	ND	3.96	ND
1,1-DICHLOROETHANE	75-34-3	1.00	ND	4.05	ND
CIS-1,2-DICHLOROETHENE	156-59-2	1.00	ND	3.97	ND
CHLOROFORM	67-66-3	1.00	ND	4.88	ND
1,1,1-TRICHLOROETHANE	71-55-6	1.00	ND	5.46	ND
CARBON TETRACHLORIDE	56-23-5	1.00	ND	6.29	ND
1,2-DICHLOROETHANE	107-06-2	1.00	ND	4.05	ND
BENZENE	71-43-2	1.00	ND	3.19	ND
TRICHLOROETHENE	79-01-6	1.00	3.98	5.37	21.4
1,2-DICHLOROPROPANE	78-87-5	1.00	ND	4.62	ND
TRANS-1,3-DICHLOROPROPENE	10061-02-6	1.00	ND	4.54	ND
TOLUENE	108-88-3	1.00	ND	3.77	ND
CIS-1,3-DICHLOROPROPENE	10061-01-5	1.00	ND	4.54	ND
1,1,2-TRICHLOROETHANE	79-00-5	1.00	ND	5.46	ND
TETRACHLOROETHENE	127-18-4	1.00	15.2	6.78	103
1,2-DIBROMOETHANE	106-93-4	1.00	ND	7.68	ND
CHLOROBENZENE	108-90-7	1.00	ND	4.60	ND
ETHYLBENZENE	100-41-4	1.00	ND	4.34	ND
XYLENE (M+P)	1330-20-7	1.00	ND	4.34	ND
XYLENE (O)	95-47-6	1.00	ND	4.34	ND
STYRENE	100-42-5	1.00	ND	4.26	ND
1,1,2,2-TETRACHLOROETHANE	79-34-5	1.00	ND	6.87	ND
1,3,5-TRIMETHYLBENZENE	108-67-8	1.00	ND	4.92	ND
1,2,4-TRIMETHYLBENZENE	95-63-6	1.00	ND	4.92	ND
1,3-DICHLOROBENZENE	541-73-1	1.00	ND	6.01	ND
1,4-DICHLOROBENZENE	106-46-7	1.00	ND	6.01	ND
1,2-DICHLOROBENZENE	95-50-1	1.00	ND	6.01	ND
1,2,4-TRICHLOROBENZENE	120-82-1	2.00	ND	14.8	ND
HEXACHLOROBUTADIENE	87-68-3	1.00	ND	10.7	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: R MK
DATE: 9/8/14

K PRIME, INC.
LABORATORY REPORT

K PRIME PROJECT: 9115
 CLIENT PROJECT: B20019.15

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

SAMPLE ID: H2-SG-07
 LAB NO: 124734
 SAMPLE TYPE: AIR
 DATE SAMPLED: 08/28/2014
 TIME SAMPLED: 08:36
 BATCH ID: 090214A1
 DATE ANALYZED: 09/03/2014

COMPOUND NAME	CAS NO.	PPB (V/V)		µg/cu. m	
		MRL	SAMPLE CONC	MRL	SAMPLE CONC
DICHLORODIFLUOROMETHANE	75-71-8	80.0	ND	396	ND
DICHLOROTETRAFLUOROETHANE	76-14-2	80.0	ND	559	ND
CHLOROMETHANE	74-87-3	80.0	ND	165	ND
VINYL CHLORIDE	75-01-4	80.0	ND	204	ND
BROMOMETHANE	74-83-9	80.0	ND	311	ND
CHLOROETHANE	75-00-3	80.0	ND	211	ND
TRICHLOROFLUOROMETHANE	75-69-4	80.0	ND	450	ND
1,1-DICHLOROETHENE	75-35-4	80.0	ND	317	ND
TRICHLOROTRIFLUOROETHANE	76-13-1	80.0	15600	613	119000
METHYLENE CHLORIDE	75-09-2	80.0	ND	278	ND
TRANS-1,2-DICHLOROETHENE	156-60-5	80.0	ND	317	ND
1,1-DICHLOROETHANE	75-34-3	80.0	ND	324	ND
CIS-1,2-DICHLOROETHENE	156-59-2	80.0	ND	317	ND
CHLOROFORM	67-66-3	80.0	2140	391	10400
1,1,1-TRICHLOROETHANE	71-55-6	80.0	ND	437	ND
CARBON TETRACHLORIDE	56-23-5	80.0	310	503	1950
1,2-DICHLOROETHANE	107-06-2	80.0	ND	324	ND
BENZENE	71-43-2	80.0	ND	256	ND
TRICHLOROETHENE	79-01-6	80.0	ND	430	ND
1,2-DICHLOROPROPANE	78-87-5	80.0	ND	370	ND
TRANS-1,3-DICHLOROPROPENE	10061-02-6	80.0	ND	363	ND
TOLUENE	108-88-3	80.0	ND	301	ND
CIS-1,3-DICHLOROPROPENE	10061-01-5	80.0	ND	363	ND
1,1,2-TRICHLOROETHANE	79-00-5	80.0	ND	437	ND
TETRACHLOROETHENE	127-18-4	80.0	ND	543	ND
1,2-DIBROMOETHANE	106-93-4	80.0	ND	615	ND
CHLOROBENZENE	108-90-7	80.0	ND	368	ND
ETHYLBENZENE	100-41-4	80.0	ND	347	ND
XYLENE (M+P)	1330-20-7	80.0	ND	347	ND
XYLENE (O)	95-47-6	80.0	ND	347	ND
STYRENE	100-42-5	80.0	ND	341	ND
1,1,2,2-TETRACHLOROETHANE	79-34-5	80.0	ND	549	ND
1,3,5-TRIMETHYLBENZENE	108-67-8	80.0	ND	393	ND
1,2,4-TRIMETHYLBENZENE	95-63-6	80.0	ND	393	ND
1,3-DICHLOROENZENE	541-73-1	80.0	ND	481	ND
1,4-DICHLOROENZENE	106-46-7	80.0	ND	481	ND
1,2-DICHLOROENZENE	95-50-1	80.0	ND	481	ND
1,2,4-TRICHLOROENZENE	120-82-1	160	ND	1190	ND
HEXACHLOROBUTADIENE	87-68-3	80.0	ND	853	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: 9/8/14

K PRIME, INC.
LABORATORY REPORT

K PRIME PROJECT: 9115
CLIENT PROJECT: B20019.15

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

SAMPLE ID: H2-SG-05
LAB NO: 124735
SAMPLE TYPE: AIR
DATE SAMPLED: 08/28/2014
TIME SAMPLED: 09:01
BATCH ID: 090214A1
DATE ANALYZED: 09/03/2014

COMPOUND NAME	CAS NO.	PPB (V/V)		µg/cu. m	
		MRL	SAMPLE CONC	MRL	SAMPLE CONC
DICHLORODIFLUOROMETHANE	75-71-8	5.00	ND	24.7	ND
DICHLOROTETRAFLUOROETHANE	76-14-2	5.00	ND	35.0	ND
CHLOROMETHANE	74-87-3	5.00	ND	10.3	ND
VINYL CHLORIDE	75-01-4	5.00	ND	12.8	ND
BROMOMETHANE	74-83-9	5.00	ND	19.4	ND
CHLOROETHANE	75-00-3	5.00	ND	13.2	ND
TRICHLOROFLUOROMETHANE	75-69-4	5.00	ND	28.1	ND
1,1-DICHLOROETHENE	75-35-4	5.00	ND	19.8	ND
TRICHLOROTRIFLUOROETHANE	76-13-1	5.00	394	38.3	3020
METHYLENE CHLORIDE	75-09-2	5.00	ND	17.4	ND
TRANS-1,2-DICHLOROETHENE	156-60-5	5.00	ND	19.8	ND
1,1-DICHLOROETHANE	75-34-3	5.00	ND	20.2	ND
CIS-1,2-DICHLOROETHENE	156-59-2	5.00	ND	19.8	ND
CHLOROFORM	67-66-3	5.00	ND	24.4	ND
1,1,1-TRICHLOROETHANE	71-55-6	5.00	52.3	27.3	286
CARBON TETRACHLORIDE	56-23-5	5.00	ND	31.5	ND
1,2-DICHLOROETHANE	107-06-2	5.00	ND	20.2	ND
BENZENE	71-43-2	5.00	ND	16.0	ND
TRICHLOROETHENE	79-01-6	5.00	ND	26.9	ND
1,2-DICHLOROPROPANE	78-87-5	5.00	ND	23.1	ND
TRANS-1,3-DICHLOROPROPENE	10061-02-6	5.00	ND	22.7	ND
TOLUENE	108-88-3	5.00	ND	18.8	ND
CIS-1,3-DICHLOROPROPENE	10061-01-5	5.00	ND	22.7	ND
1,1,2-TRICHLOROETHANE	79-00-5	5.00	ND	27.3	ND
TETRACHLOROETHENE	127-18-4	5.00	ND	33.9	ND
1,2-DIBROMOETHANE	106-93-4	5.00	ND	38.4	ND
CHLOROBENZENE	108-90-7	5.00	ND	23.0	ND
ETHYLBENZENE	100-41-4	5.00	ND	21.7	ND
XYLENE (M+P)	1330-20-7	5.00	ND	21.7	ND
XYLENE (O)	95-47-6	5.00	ND	21.7	ND
STYRENE	100-42-5	5.00	ND	21.3	ND
1,1,2,2-TETRACHLOROETHANE	79-34-5	5.00	ND	34.3	ND
1,3,5-TRIMETHYLBENZENE	108-67-8	5.00	ND	24.6	ND
1,2,4-TRIMETHYLBENZENE	95-63-6	5.00	ND	24.6	ND
1,3-DICHLOROBENZENE	541-73-1	5.00	ND	30.1	ND
1,4-DICHLOROBENZENE	106-46-7	5.00	ND	30.1	ND
1,2-DICHLOROBENZENE	95-50-1	5.00	ND	30.1	ND
1,2,4-TRICHLOROBENZENE	120-82-1	10.0	ND	74.2	ND
HEXACHLOROBUTADIENE	87-68-3	5.00	ND	53.3	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: BMC
DATE: 9/8/14

K PRIME, INC.
LABORATORY REPORT

K PRIME PROJECT: 9115
 CLIENT PROJECT: B20019.15

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

SAMPLE ID: H2-SG-09
 LAB NO: 124736
 SAMPLE TYPE: AIR
 DATE SAMPLED: 08/28/2014
 TIME SAMPLED: 09:26
 BATCH ID: 090214A1
 DATE ANALYZED: 09/03/2014

COMPOUND NAME	CAS NO.	PPB (V/V)		µg/cu. m	
		MRL	SAMPLE CONC	MRL	SAMPLE CONC
DICHLORODIFLUOROMETHANE	75-71-8	1.00	ND	4.95	ND
DICHLOROTETRAFLUOROETHANE	76-14-2	1.00	ND	6.99	ND
CHLOROMETHANE	74-87-3	1.00	ND	2.07	ND
VINYL CHLORIDE	75-01-4	1.00	ND	2.56	ND
BROMOMETHANE	74-83-9	1.00	ND	3.88	ND
CHLOROETHANE	75-00-3	1.00	ND	2.64	ND
TRICHLOROFLUOROMETHANE	75-69-4	1.00	ND	5.62	ND
1,1-DICHLOROETHENE	75-35-4	1.00	ND	3.97	ND
TRICHLOROTRIFLUOROETHANE	76-13-1	1.00	ND	7.66	ND
METHYLENE CHLORIDE	75-09-2	1.00	ND	3.47	ND
TRANS-1,2-DICHLOROETHENE	156-60-5	1.00	ND	3.96	ND
1,1-DICHLOROETHANE	75-34-3	1.00	ND	4.05	ND
CIS-1,2-DICHLOROETHENE	156-59-2	1.00	ND	3.97	ND
CHLOROFORM	67-66-3	1.00	ND	4.88	ND
1,1,1-TRICHLOROETHANE	71-55-6	1.00	12.3	5.46	66.8
CARBON TETRACHLORIDE	56-23-5	1.00	2.03	6.29	12.8
1,2-DICHLOROETHANE	107-06-2	1.00	ND	4.05	ND
BENZENE	71-43-2	1.00	ND	3.19	ND
TRICHLOROETHENE	79-01-6	1.00	2.10	5.37	11.3
1,2-DICHLOROPROPANE	78-87-5	1.00	ND	4.62	ND
TRANS-1,3-DICHLOROPROPENE	10061-02-6	1.00	ND	4.54	ND
TOLUENE	108-88-3	1.00	ND	3.77	ND
CIS-1,3-DICHLOROPROPENE	10061-01-5	1.00	ND	4.54	ND
1,1,2-TRICHLOROETHANE	79-00-5	1.00	ND	5.46	ND
TETRACHLOROETHENE	127-18-4	1.00	ND	6.78	ND
1,2-DIBROMOETHANE	106-93-4	1.00	ND	7.68	ND
CHLOROBENZENE	108-90-7	1.00	ND	4.60	ND
ETHYLBENZENE	100-41-4	1.00	ND	4.34	ND
XYLENE (M+P)	1330-20-7	1.00	ND	4.34	ND
XYLENE (O)	95-47-6	1.00	ND	4.34	ND
STYRENE	100-42-5	1.00	ND	4.26	ND
1,1,2,2-TETRACHLOROETHANE	79-34-5	1.00	ND	6.87	ND
1,3,5-TRIMETHYLBENZENE	108-67-8	1.00	ND	4.92	ND
1,2,4-TRIMETHYLBENZENE	95-63-6	1.00	ND	4.92	ND
1,3-DICHLOROBENZENE	541-73-1	1.00	ND	6.01	ND
1,4-DICHLOROBENZENE	106-46-7	1.00	ND	6.01	ND
1,2-DICHLOROBENZENE	95-50-1	1.00	ND	6.01	ND
1,2,4-TRICHLOROBENZENE	120-82-1	2.00	ND	14.8	ND
HEXACHLOROBUTADIENE	87-68-3	1.00	ND	10.7	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: MAC
 DATE: 9/8/14

K PRIME, INC.
LABORATORY REPORT

K PRIME PROJECT: 9115
CLIENT PROJECT: B20019.15

METHOD: 1,1,1,2-TETRAFLUOROETHANE
REFERENCE: EPA TO 3

UNITS: PPMV

SAMPLE ID	LAB NO.	SAMPLE TYPE	DATE SAMPLED	BATCH ID	DATE ANALYZED	MRL	SAMPLE CONC
H2-SG-04	124729	AIR	08/27/2014	082714A1	09/02/2014	10.0	ND
H2-SG-03	124730	AIR	08/27/2014	082714A1	09/02/2014	10.0	111
H2-SHROUD-SG-03	124731	AIR	08/27/2014	082714A1	09/02/2014	10.0	1880
H2-SG-01	124732	AIR	08/27/2014	082714A1	09/02/2014	10.0	ND
H2-SG-1DUPE	124733	AIR	08/27/2014	082714A1	09/02/2014	10.0	ND
H2-SG-07	124734	AIR	08/28/2014	082714A1	09/02/2014	10.0	ND
H2-SG-05	124735	AIR	08/28/2014	082714A1	09/02/2014	10.0	ND
H2-SG-09	124736	AIR	08/28/2014	082714A1	09/02/2014	10.0	ND

NOTES:

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

APPROVED BY: P, MK
DATE: 9/8/14

K PRIME, INC.
LABORATORY METHOD BLANK REPORT

METHOD BLANK ID: B090214A1
SAMPLE TYPE: AIR

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

BATCH ID: 090214A1
DATE ANALYZED: 09/02/2014

COMPOUND NAME	CAS NO.	PPB (V/V)		µg/cu. m	
		MRL	SAMPLE CONC	MRL	SAMPLE CONC
DICHLORODIFLUOROMETHANE	75-71-8	0.500	ND	2.47	ND
DICHLOROTETRAFLUOROETHANE	76-14-2	0.500	ND	3.50	ND
CHLOROMETHANE	74-87-3	0.500	ND	1.03	ND
VINYL CHLORIDE	75-01-4	0.500	ND	1.28	ND
BROMOMETHANE	74-83-9	0.500	ND	1.94	ND
CHLOROETHANE	75-00-3	0.500	ND	1.32	ND
TRICHLOROFUOROMETHANE	75-69-4	0.500	ND	2.81	ND
1,1-DICHLOROETHENE	75-35-4	0.500	ND	1.98	ND
TRICHLOROTRIFLUOROETHANE	76-13-1	0.500	ND	3.83	ND
METHYLENE CHLORIDE	75-09-2	0.500	ND	1.74	ND
TRANS-1,2-DICHLOROETHENE	156-60-5	0.500	ND	1.98	ND
1,1-DICHLOROETHANE	75-34-3	0.500	ND	2.02	ND
CIS-1,2-DICHLOROETHENE	156-59-2	0.500	ND	1.98	ND
CHLOROFORM	67-66-3	0.500	ND	2.44	ND
1,1,1-TRICHLOROETHANE	71-55-6	0.500	ND	2.73	ND
CARBON TETRACHLORIDE	56-23-5	0.500	ND	3.15	ND
1,2-DICHLOROETHANE	107-06-2	0.500	ND	2.02	ND
BENZENE	71-43-2	0.500	ND	1.60	ND
TRICHLOROETHENE	79-01-6	0.500	ND	2.69	ND
1,2-DICHLOROPROPANE	78-87-5	0.500	ND	2.31	ND
TRANS-1,3-DICHLOROPROPENE	10061-02-6	0.500	ND	2.27	ND
TOLUENE	108-88-3	0.500	ND	1.88	ND
CIS-1,3-DICHLOROPROPENE	10061-01-5	0.500	ND	2.27	ND
1,1,2-TRICHLOROETHANE	79-00-5	0.500	ND	2.73	ND
TETRACHLOROETHENE	127-18-4	0.500	ND	3.39	ND
1,2-DIBROMOETHANE	106-93-4	0.500	ND	3.84	ND
CHLOROBENZENE	108-90-7	0.500	ND	2.30	ND
ETHYLBENZENE	100-41-4	0.500	ND	2.17	ND
XYLENE (M+P)	1330-20-7	0.500	ND	2.17	ND
XYLENE (O)	95-47-6	0.500	ND	2.17	ND
STYRENE	100-42-5	0.500	ND	2.13	ND
1,1,2,2-TETRACHLOROETHANE	79-34-5	0.500	ND	3.43	ND
1,3,5-TRIMETHYLBENZENE	108-67-8	0.500	ND	2.46	ND
1,2,4-TRIMETHYLBENZENE	95-63-6	0.500	ND	2.46	ND
1,3-DICHLOROBENZENE	541-73-1	0.500	ND	3.01	ND
1,4-DICHLOROBENZENE	106-46-7	0.500	ND	3.01	ND
1,2-DICHLOROBENZENE	95-50-1	0.500	ND	3.01	ND
1,2,4-TRICHLOROBENZENE	120-82-1	0.500	ND	3.71	ND
HEXACHLOROBUTADIENE	87-68-3	0.500	ND	5.33	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: L090214A1
 LAB CONTROL DUPLICATE ID: D090214A1

SAMPLE TYPE: AIR
 BATCH ID: 090214A1
 DATE ANALYZED: 09/02/2014

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

COMPOUND NAME	SPIKE ADDED (PPB)	REPORTING LIMIT (PPB)	SAMPLE CONC (PPB)	SPIKE CONC (PPB)	SPIKE REC (%)	REC LIMITS (%)
1,1-DICHLOROETHENE	10.0	0.500	ND	11.3	113	60 - 140
TRICHLOROETHENE	10.0	0.500	ND	12.7	127	60 - 140
BENZENE	10.0	0.500	ND	11.3	113	60 - 140
TOLUENE	10.0	0.500	ND	13.4	134	60 - 140
TETRACHLOROETHENE	10.0	0.500	ND	13.0	130	60 - 140

COMPOUND NAME	SPIKE ADDED (PPB)	SPIKE DUP CONC (PPB)	SPIKE DUP REC (%)	RPD (%)	QC LIMITS	
					RPD (%)	REC (%)
1,1-DICHLOROETHENE	10.0	10.2	102	10.1	25	60 - 140
TRICHLOROETHENE	10.0	11.6	116	8.7	25	60 - 140
BENZENE	10.0	10.5	105	7.9	25	60 - 140
TOLUENE	10.0	12.3	123	9.0	25	60 - 140
TETRACHLOROETHENE	10.0	12.0	120	7.7	25	60 - 140

NOTES:

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

K PRIME, INC.
LABORATORY QC REPORT

METHOD BLANK ID: B082714A1
LAB CONTROL SAMPLE ID: L082714A1
LAB CONTROL DUPLICATE ID: D082714A1
BATCH ID: 082714A1

METHOD: 1,1,1,2-TETRAFLUOROETHANE
REFERENCE: EPA TO 3

SAMPLE TYPE: AIR
UNITS: PPM -V/V

METHOD BLANK

COMPOUND NAME	REPORTING LIMIT	SAMPLE CONC
1,1,1,2-TETRAFLUOROETHANE	10.0	ND

ACCURACY (LAB CONTROL SAMPLE)

COMPOUND NAME	EXPECTED CONC	MEASURED CONC	PERCENT RECOVERY	LIMITS (PERCENT)
1,1,1,2-TETRAFLUOROETHANE	10000	9320	93	60-140

PRECISION (LAB CONTROL DUPLICATE)

COMPOUND NAME	SAMPLE RESULT	DUPLICATE RESULT	RPD (PERCENT)	LIMITS (PERCENT)
1,1,1,2-TETRAFLUOROETHANE	9320	9250	0.8	±30

NOTES:

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

Project Name: MFA Hangar 2+3		Project No.: B20019.15		ANALYSES REQUESTED						EKI COC No.: (YYYYMMDD-#)		
Location: Moffett Field		Sampled By: Castle		Method No. Analyte Group	TO-15 VOC's	TEA					Revision: _____ (A, B, C, D, etc.) Date: _____ By: _____	
Reporting: Electronic Format: EDD / EDF Hard Copy Format: PDF EPA Data Report Level: II Please report results to the following: (1) Cindy Cheng: ccheng@ekiconsult.com (2) Mik King: mikking@ekiconsult.com (3) Samiela: samiela@ekiconsult.com		Laboratory: Kprime										No. EDF No EDF
Field Sample Identification	Lab Sample No.	Date	Time	Matrix	No./Type of Containers							
H2-SG-84	124729	8.27.14	1125	Air	1-L Turno-	X	X				5 day	5-232
H2-SG-83	124730		1209			X	X					5-252
H2-Shroud-SG-83	124731		1209			X	X					5-658
H2-SG-83B	124732		1252			X	X					5-284
H2-SG-1Dopc	124733		1304			X	X					5-653
H2-SG-87	124734	8-28-14	836			X	X					5-231
H2-SG-85	124735		0901			X	X					5-717
H2-SG-09	124736		0926			X	X					5-928
Special Instructions:												
Relinquished by: <i>Brian Castle</i> (Signature/Affiliation)			Date: 8/29/14	Time: 16:15	Received by: <i>FEDEX</i> (Signature/Affiliation or Carrier/Air Bill No.)							
Relinquished by: <i>FedEx #7709 9916 0725</i> (Signature/Affiliation)			Date: 9/2/14	Time: 10:00	Received by: <i>Richard A. Kaye</i> (Signature/Affiliation)							
Relinquished by: _____ (Signature/Affiliation)			Date: _____	Time: _____	Received by: _____ (Signature/Affiliation)							

K PRIME, Inc.

CONSULTING ANALYTICAL CHEMISTS

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

TRANSMITTAL

DATE: 9/9/2014

TO: MS. MICHELLE KING
MR. STEVE MILLER
MS. KAREN GRUEBEL
ERLER & KALINOWSKI, INC.
1870 OGDEN DRIVE
BURLINGAME, CA 94010

ACCT: 9115
PROJ: B20019.15

Phone: 650-292-9100
Fax: 650-552-9012
Email: labs@ekiconsult.com
mking@ekiconsult.com
smiller@ekiconsult.com
kgruebel@ekiconsult.com

FROM: Richard A. Kage1, Ph.D. *RAK 9/9/2014*
Laboratory Director

SUBJECT: LABORATORY RESULTS FOR YOUR PROJECT B20019.15

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

SAMPLE ID	TYPE	DATE	TIME	KPI LAB #
H3-SG-12	AIR	9/2/2014	8:28	124756
H3-SG-09	AIR	9/2/2014	8:57	124757
H3-SG-06	AIR	9/2/2014	9:27	124758
H3-SG-03	AIR	9/2/2014	9:56	124759
H3-SG-03DUPE	AIR	9/2/2014	10:10	124760
H3-SG-02	AIR	9/2/2014	10:32	124761
H3-SG-30	AIR	9/2/2014	12:05	124762
H3-SG-14	AIR	9/2/2014	8:28	124763
H3-SG-13	AIR	9/2/2014	8:33	124764
H3-SG-07	AIR	9/2/2014	9:05	124765
H3-SG-39	AIR	9/2/2014	12:00	124766
H3-SG-37	AIR	9/2/2014	12:03	124767
H3-SG-40	AIR	9/2/2014	12:06	124768
H3-SG-33	AIR	9/2/2014	11:59	124769
H3-SG-34	AIR	9/2/2014	12:01	124770
H3-SG-32	AIR	9/2/2014	11:57	124771
H3-SG-11	AIR	9/2/2014	8:42	124772
H3-SG-08	AIR	9/2/2014	9:15	124773
H3-SG-08DUPE	AIR	9/2/2014	9:23	124774

H3-SG-04	AIR	9/2/2014	9:57	124775
H3-SG-38	AIR	9/2/2014	11:05	124776
H3-SG-36	AIR	9/2/2014	11:04	124777
H3-SG-35	AIR	9/2/2014	11:02	124778
H3-SG-36DUPE	AIR	9/2/2014	11:20	124779
H3-SG-31	AIR	9/2/2014	11:58	124780
H3-SG-23	AIR	9/2/2014	13:50	124781
H3-SG-22	AIR	9/2/2014	13:47	124782
H3-SG-22DUPE	AIR	9/2/2014	13:56	124783
H3-SG-21	AIR	9/2/2014	14:30	124784
H3-SG-27	AIR	9/2/2014	13:01	124785
H3-SG-25	AIR	9/2/2014	13:47	124786
H3-SG-26	AIR	9/2/2014	13:50	124787
H3-SG-24	AIR	9/2/2014	13:52	124788
H3-SG-20	AIR	9/2/2014	14:29	124789
H3-SG-29	AIR	9/2/2014	14:56	124790
H3-SG-28	AIR	9/2/2014	15:17	124791

The above listed sample group was received on 9/2/2014 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: 9115
CLIENT PROJECT: B20019.15

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

SAMPLE ID: H3-SG-12
LAB NO: 124756
SAMPLE TYPE: AIR
DATE SAMPLED: 09/02/2014
TIME SAMPLED: 08:28
BATCH ID: 090214A1
DATE ANALYZED: 09/04/2014

COMPOUND NAME	CAS NO.	PPB (V/V)		µg/cu. m	
		MRL	SAMPLE CONC	MRL	SAMPLE CONC
DICHLORODIFLUOROMETHANE	75-71-8	2.50	ND	12.4	ND
DICHLOROTETRAFLUOROETHANE	76-14-2	2.50	ND	17.5	ND
CHLOROMETHANE	74-87-3	2.50	ND	5.16	ND
VINYL CHLORIDE	75-01-4	2.50	ND	6.39	ND
BROMOMETHANE	74-83-9	2.50	ND	9.71	ND
CHLOROETHANE	75-00-3	2.50	ND	6.60	ND
TRICHLOROFLUOROMETHANE	75-69-4	2.50	ND	14.0	ND
1,1-DICHLOROETHENE	75-35-4	2.50	ND	9.91	ND
TRICHLOROTRIFLUOROETHANE	76-13-1	2.50	ND	19.2	ND
METHYLENE CHLORIDE	75-09-2	2.50	ND	8.68	ND
TRANS-1,2-DICHLOROETHENE	156-60-5	2.50	ND	9.91	ND
1,1-DICHLOROETHANE	75-34-3	2.50	ND	10.1	ND
CIS-1,2-DICHLOROETHENE	156-59-2	2.50	ND	9.91	ND
CHLOROFORM	67-66-3	2.50	ND	12.2	ND
1,1,1-TRICHLOROETHANE	71-55-6	2.50	9.08	13.6	49.5
CARBON TETRACHLORIDE	56-23-5	2.50	ND	15.7	ND
1,2-DICHLOROETHANE	107-06-2	2.50	ND	10.1	ND
BENZENE	71-43-2	2.50	ND	7.99	ND
TRICHLOROETHENE	79-01-6	2.50	136	13.4	729
1,2-DICHLOROPROPANE	78-87-5	2.50	ND	11.6	ND
TRANS-1,3-DICHLOROPROPENE	10061-02-6	2.50	ND	11.3	ND
TOLUENE	108-88-3	2.50	ND	9.42	ND
CIS-1,3-DICHLOROPROPENE	10061-01-5	2.50	ND	11.3	ND
1,1,2-TRICHLOROETHANE	79-00-5	2.50	ND	13.6	ND
TETRACHLOROETHENE	127-18-4	2.50	ND	17.0	ND
1,2-DIBROMOETHANE	106-93-4	2.50	ND	19.2	ND
CHLOROBENZENE	108-90-7	2.50	ND	11.5	ND
ETHYLBENZENE	100-41-4	2.50	ND	10.9	ND
XYLENE (M+P)	1330-20-7	2.50	ND	10.9	ND
XYLENE (O)	95-47-6	2.50	ND	10.9	ND
STYRENE	100-42-5	2.50	ND	10.6	ND
1,1,2,2-TETRACHLOROETHANE	79-34-5	2.50	ND	17.2	ND
1,3,5-TRIMETHYLBENZENE	108-67-8	2.50	ND	12.3	ND
1,2,4-TRIMETHYLBENZENE	95-83-6	2.50	ND	12.3	ND
1,3-DICHLOROBENZENE	541-73-1	2.50	ND	15.0	ND
1,4-DICHLOROBENZENE	106-46-7	2.50	ND	15.0	ND
1,2-DICHLOROBENZENE	95-50-1	2.50	ND	15.0	ND
1,2,4-TRICHLOROBENZENE	120-82-1	5.00	ND	37.1	ND
HEXACHLOROBUTADIENE	87-68-3	2.50	ND	26.7	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: AMC
DATE: 9/9/14

K PRIME, INC.
LABORATORY REPORT

K PRIME PROJECT: 9115
CLIENT PROJECT: B20019.15

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

SAMPLE ID: H3-SG-09
LAB NO: 124757
SAMPLE TYPE: AIR
DATE SAMPLED: 09/02/2014
TIME SAMPLED: 08:57
BATCH ID: 090214A1
DATE ANALYZED: 09/04/2014

COMPOUND NAME	CAS NO.	PPB (V/V)		µg/cu. m	
		MRL	SAMPLE CONC	MRL	SAMPLE CONC
DICHLORODIFLUOROMETHANE	75-71-8	10.0	ND	49.5	ND
DICHLOROTETRAFLUOROETHANE	76-14-2	10.0	ND	69.9	ND
CHLOROMETHANE	74-87-3	10.0	ND	20.7	ND
VINYL CHLORIDE	75-01-4	10.0	ND	25.6	ND
BROMOMETHANE	74-83-9	10.0	ND	38.8	ND
CHLOROETHANE	75-00-3	10.0	ND	26.4	ND
TRICHLOROFLUOROMETHANE	75-69-4	10.0	ND	56.2	ND
1,1-DICHLOROETHENE	75-35-4	10.0	ND	39.7	ND
TRICHLOROTRIFLUOROETHANE	76-13-1	10.0	497	76.6	3810
METHYLENE CHLORIDE	75-09-2	10.0	ND	34.7	ND
TRANS-1,2-DICHLOROETHENE	156-60-5	10.0	ND	39.6	ND
1,1-DICHLOROETHANE	75-34-3	10.0	ND	40.5	ND
CIS-1,2-DICHLOROETHENE	156-59-2	10.0	ND	39.7	ND
CHLOROFORM	67-66-3	10.0	ND	48.8	ND
1,1,1-TRICHLOROETHANE	71-55-6	10.0	ND	54.6	ND
CARBON TETRACHLORIDE	56-23-5	10.0	ND	62.9	ND
1,2-DICHLOROETHANE	107-06-2	10.0	ND	40.5	ND
BENZENE	71-43-2	10.0	ND	31.9	ND
TRICHLOROETHENE	79-01-6	10.0	ND	53.7	ND
1,2-DICHLOROPROPANE	78-87-5	10.0	ND	46.2	ND
TRANS-1,3-DICHLOROPROPENE	10061-02-6	10.0	ND	45.4	ND
TOLUENE	108-88-3	10.0	ND	37.7	ND
CIS-1,3-DICHLOROPROPENE	10061-01-5	10.0	ND	45.4	ND
1,1,2-TRICHLOROETHANE	79-00-5	10.0	ND	54.6	ND
TETRACHLOROETHENE	127-18-4	10.0	ND	67.8	ND
1,2-DIBROMOETHANE	106-93-4	10.0	ND	76.8	ND
CHLOROBENZENE	108-90-7	10.0	ND	46.0	ND
ETHYLBENZENE	100-41-4	10.0	ND	43.4	ND
XYLENE (M+P)	1330-20-7	10.0	ND	43.4	ND
XYLENE (O)	95-47-6	10.0	ND	43.4	ND
STYRENE	100-42-5	10.0	ND	42.6	ND
1,1,2,2-TETRACHLOROETHANE	79-34-5	10.0	ND	68.7	ND
1,3,5-TRIMETHYLBENZENE	108-87-8	10.0	ND	49.2	ND
1,2,4-TRIMETHYLBENZENE	95-63-6	10.0	ND	49.2	ND
1,3-DICHLOROBENZENE	541-73-1	10.0	ND	60.1	ND
1,4-DICHLOROBENZENE	106-46-7	10.0	ND	60.1	ND
1,2-DICHLOROBENZENE	95-50-1	10.0	ND	60.1	ND
1,2,4-TRICHLOROBENZENE	120-82-1	20.0	ND	148	ND
HEXACHLOROBUTADIENE	87-68-3	10.0	ND	107	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: 9/9/14

K PRIME, INC.
LABORATORY REPORT

K PRIME PROJECT: 9115
CLIENT PROJECT: B20019.15

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

SAMPLE ID: H3-SG-06
LAB NO: 124758
SAMPLE TYPE: AIR
DATE SAMPLED: 09/02/2014
TIME SAMPLED: 09:27
BATCH ID: 090214A1
DATE ANALYZED: 09/04/2014

COMPOUND NAME	CAS NO.	PPB (V/V)		µg/cu. m	
		MRL	SAMPLE CONC	MRL	SAMPLE CONC
DICHLORODIFLUOROMETHANE	75-71-8	2.50	ND	12.4	ND
DICHLOROTETRAFLUOROETHANE	76-14-2	2.50	ND	17.5	ND
CHLOROMETHANE	74-87-3	2.50	ND	5.16	ND
VINYL CHLORIDE	75-01-4	2.50	ND	6.39	ND
BROMOMETHANE	74-83-9	2.50	ND	9.71	ND
CHLOROETHANE	75-00-3	2.50	ND	6.60	ND
TRICHLOROFLUOROMETHANE	75-69-4	2.50	ND	14.0	ND
1,1-DICHLOROETHENE	75-35-4	2.50	ND	9.91	ND
TRICHLOROTRIFLUOROETHANE	76-13-1	2.50	38.0	19.2	291
METHYLENE CHLORIDE	75-09-2	2.50	ND	8.68	ND
TRANS-1,2-DICHLOROETHENE	156-60-5	2.50	ND	9.91	ND
1,1-DICHLOROETHANE	75-34-3	2.50	ND	10.1	ND
CIS-1,2-DICHLOROETHENE	156-59-2	2.50	ND	9.91	ND
CHLOROFORM	67-68-3	2.50	ND	12.2	ND
1,1,1-TRICHLOROETHANE	71-55-6	2.50	331	13.6	1810
CARBON TETRACHLORIDE	56-23-5	2.50	ND	15.7	ND
1,2-DICHLOROETHANE	107-06-2	2.50	ND	10.1	ND
BENZENE	71-43-2	2.50	ND	7.99	ND
TRICHLOROETHENE	79-01-6	2.50	ND	13.4	ND
1,2-DICHLOROPROPANE	78-87-5	2.50	ND	11.6	ND
TRANS-1,3-DICHLOROPROPENE	10061-02-6	2.50	ND	11.3	ND
TOLUENE	108-88-3	2.50	ND	9.42	ND
CIS-1,3-DICHLOROPROPENE	10061-01-5	2.50	ND	11.3	ND
1,1,2-TRICHLOROETHANE	79-00-5	2.50	ND	13.6	ND
TETRACHLOROETHENE	127-18-4	2.50	ND	17.0	ND
1,2-DIBROMOETHANE	106-93-4	2.50	ND	19.2	ND
CHLOROBENZENE	108-90-7	2.50	ND	11.5	ND
ETHYLBENZENE	100-41-4	2.50	ND	10.9	ND
XYLENE (M+P)	1330-20-7	2.50	ND	10.9	ND
XYLENE (O)	95-47-6	2.50	ND	10.9	ND
STYRENE	100-42-5	2.50	ND	10.6	ND
1,1,2,2-TETRACHLOROETHANE	79-34-5	2.50	ND	17.2	ND
1,3,5-TRIMETHYLBENZENE	108-67-8	2.50	ND	12.3	ND
1,2,4-TRIMETHYLBENZENE	95-63-6	2.50	ND	12.3	ND
1,3-DICHLOROBENZENE	541-73-1	2.50	ND	15.0	ND
1,4-DICHLOROBENZENE	106-46-7	2.50	ND	15.0	ND
1,2-DICHLOROBENZENE	95-50-1	2.50	ND	15.0	ND
1,2,4-TRICHLOROBENZENE	120-82-1	5.00	ND	37.1	ND
HEXACHLOROBUTADIENE	87-68-3	2.50	ND	26.7	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: 9/9/14

K PRIME, INC.
LABORATORY REPORT

K PRIME PROJECT: 9115
CLIENT PROJECT: B20019.15

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

SAMPLE ID: H3-SG-03
LAB NO: 124759
SAMPLE TYPE: AIR
DATE SAMPLED: 09/02/2014
TIME SAMPLED: 09:56
BATCH ID: 090214A1
DATE ANALYZED: 09/04/2014

COMPOUND NAME	CAS NO.	PPB (V/V)		µg/cu. m	
		MRL	SAMPLE CONC	MRL	SAMPLE CONC
DICHLORODIFLUOROMETHANE	75-71-8	20.0	ND	98.9	ND
DICHLOROTETRAFLUOROETHANE	76-14-2	20.0	ND	140	ND
CHLOROMETHANE	74-87-3	20.0	ND	41.3	ND
VINYL CHLORIDE	75-01-4	20.0	ND	51.1	ND
BROMOMETHANE	74-83-9	20.0	ND	77.7	ND
CHLOROETHANE	75-00-3	20.0	ND	52.8	ND
TRICHLOROFLUOROMETHANE	75-69-4	20.0	ND	112	ND
1,1-DICHLOROETHENE	75-35-4	20.0	ND	79.3	ND
TRICHLOROTRIFLUOROETHANE	76-13-1	20.0	1340	153	10200
METHYLENE CHLORIDE	75-09-2	20.0	ND	69.5	ND
TRANS-1,2-DICHLOROETHENE	156-60-5	20.0	ND	79.3	ND
1,1-DICHLOROETHANE	75-34-3	20.0	ND	81.0	ND
CIS-1,2-DICHLOROETHENE	156-59-2	20.0	ND	79.3	ND
CHLOROFORM	67-66-3	20.0	ND	97.7	ND
1,1,1-TRICHLOROETHANE	71-55-6	20.0	ND	109	ND
CARBON TETRACHLORIDE	56-23-5	20.0	ND	126	ND
1,2-DICHLOROETHANE	107-06-2	20.0	ND	80.9	ND
BENZENE	71-43-2	20.0	ND	63.9	ND
TRICHLOROETHENE	79-01-6	20.0	ND	107	ND
1,2-DICHLOROPROPANE	78-87-5	20.0	ND	92.4	ND
TRANS-1,3-DICHLOROPROPENE	10061-02-6	20.0	ND	90.8	ND
TOLUENE	108-88-3	20.0	ND	75.4	ND
CIS-1,3-DICHLOROPROPENE	10061-01-5	20.0	ND	90.8	ND
1,1,2-TRICHLOROETHANE	79-00-5	20.0	ND	109	ND
TETRACHLOROETHENE	127-18-4	20.0	ND	136	ND
1,2-DIBROMOETHANE	106-93-4	20.0	ND	154	ND
CHLOROBENZENE	108-90-7	20.0	ND	92.1	ND
ETHYLBENZENE	100-41-4	20.0	ND	86.8	ND
XYLENE (M+P)	1330-20-7	20.0	ND	86.8	ND
XYLENE (O)	95-47-6	20.0	ND	86.8	ND
STYRENE	100-42-5	20.0	ND	85.2	ND
1,1,2,2-TETRACHLOROETHANE	79-34-5	20.0	ND	137	ND
1,3,5-TRIMETHYLBENZENE	108-67-8	20.0	ND	98.3	ND
1,2,4-TRIMETHYLBENZENE	95-63-6	20.0	ND	98.3	ND
1,3-DICHLOROBENZENE	541-73-1	20.0	ND	120	ND
1,4-DICHLOROBENZENE	106-46-7	20.0	ND	120	ND
1,2-DICHLOROBENZENE	95-50-1	20.0	ND	120	ND
1,2,4-TRICHLOROBENZENE	120-82-1	40.0	ND	297	ND
HEXACHLOROBUTADIENE	87-68-3	20.0	ND	213	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: 9/9/14

K PRIME, INC.
LABORATORY REPORT

K PRIME PROJECT: 9115
CLIENT PROJECT: B20019.15

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

SAMPLE ID: H3-SG-03DUPE
LAB NO: 124760
SAMPLE TYPE: AIR
DATE SAMPLED: 09/02/2014
TIME SAMPLED: 10:10
BATCH ID: 090214A1
DATE ANALYZED: 09/04/2014

COMPOUND NAME	CAS NO.	PPB (V/V)		µg/cu. m	
		MRL	SAMPLE CONC	MRL	SAMPLE CONC
DICHLORODIFLUOROMETHANE	75-71-8	20.0	ND	98.9	ND
DICHLOROTETRAFLUOROETHANE	76-14-2	20.0	ND	140	ND
CHLOROMETHANE	74-87-3	20.0	ND	41.3	ND
VINYL CHLORIDE	75-01-4	20.0	ND	51.1	ND
BROMOMETHANE	74-83-9	20.0	ND	77.7	ND
CHLOROETHANE	75-00-3	20.0	ND	52.8	ND
TRICHLOROFUOROMETHANE	75-69-4	20.0	ND	112	ND
1,1-DICHLOROETHENE	75-35-4	20.0	ND	79.3	ND
TRICHLOROTRIFLUOROETHANE	76-13-1	20.0	1110	153	8520
METHYLENE CHLORIDE	75-09-2	20.0	ND	69.5	ND
TRANS-1,2-DICHLOROETHENE	156-60-5	20.0	ND	79.3	ND
1,1-DICHLOROETHANE	75-34-3	20.0	ND	81.0	ND
CIS-1,2-DICHLOROETHENE	156-59-2	20.0	ND	79.3	ND
CHLOROFORM	67-66-3	20.0	ND	97.7	ND
1,1,1-TRICHLOROETHANE	71-55-6	20.0	ND	109	ND
CARBON TETRACHLORIDE	56-23-5	20.0	ND	126	ND
1,2-DICHLOROETHANE	107-06-2	20.0	ND	80.9	ND
BENZENE	71-43-2	20.0	ND	63.9	ND
TRICHLOROETHENE	79-01-6	20.0	ND	107	ND
1,2-DICHLOROPROPANE	78-87-5	20.0	ND	92.4	ND
TRANS-1,3-DICHLOROPROPENE	10061-02-6	20.0	ND	90.8	ND
TOLUENE	108-88-3	20.0	ND	75.4	ND
CIS-1,3-DICHLOROPROPENE	10061-01-5	20.0	ND	90.8	ND
1,1,2-TRICHLOROETHANE	79-00-5	20.0	ND	109	ND
TETRACHLOROETHENE	127-18-4	20.0	ND	136	ND
1,2-DIBROMOETHANE	106-93-4	20.0	ND	154	ND
CHLOROBENZENE	108-90-7	20.0	ND	92.1	ND
ETHYLBENZENE	100-41-4	20.0	ND	86.8	ND
XYLENE (M+P)	1330-20-7	20.0	ND	86.8	ND
XYLENE (O)	95-47-6	20.0	ND	86.8	ND
STYRENE	100-42-5	20.0	ND	85.2	ND
1,1,2,2-TETRACHLOROETHANE	79-34-5	20.0	ND	137	ND
1,3,5-TRIMETHYLBENZENE	108-67-8	20.0	ND	98.3	ND
1,2,4-TRIMETHYLBENZENE	95-63-6	20.0	ND	98.3	ND
1,3-DICHLOROBENZENE	541-73-1	20.0	ND	120	ND
1,4-DICHLOROBENZENE	106-46-7	20.0	ND	120	ND
1,2-DICHLOROBENZENE	95-50-1	20.0	ND	120	ND
1,2,4-TRICHLOROBENZENE	120-82-1	40.0	ND	297	ND
HEXACHLOROBUTADIENE	87-68-3	20.0	ND	213	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: AMC
DATE: 9/9/14

K PRIME, INC.
LABORATORY REPORT

K PRIME PROJECT: 9115
CLIENT PROJECT: B20019.15

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

SAMPLE ID: H3-SG-02
LAB NO: 124761
SAMPLE TYPE: AIR
DATE SAMPLED: 09/02/2014
TIME SAMPLED: 10:32
BATCH ID: 090214A1
DATE ANALYZED: 09/04/2014

COMPOUND NAME	CAS NO.	PPB (V/V)		µg/cu. m	
		MRL	SAMPLE CONC	MRL	SAMPLE CONC
DICHLORODIFLUOROMETHANE	75-71-8	1.00	ND	4.95	ND
DICHLOROTETRAFLUOROETHANE	76-14-2	1.00	ND	6.99	ND
CHLOROMETHANE	74-87-3	1.00	ND	2.07	ND
VINYL CHLORIDE	75-01-4	1.00	ND	2.56	ND
BROMOMETHANE	74-83-9	1.00	ND	3.88	ND
CHLOROETHANE	75-00-3	1.00	ND	2.64	ND
TRICHLOROFLUOROMETHANE	75-69-4	1.00	ND	5.62	ND
1,1-DICHLOROETHENE	75-35-4	1.00	ND	3.97	ND
TRICHLOROTRIFLUOROETHANE	76-13-1	1.00	4.91	7.66	37.6
METHYLENE CHLORIDE	75-09-2	1.00	ND	3.47	ND
TRANS-1,2-DICHLOROETHENE	156-60-5	1.00	ND	3.96	ND
1,1-DICHLOROETHANE	75-34-3	1.00	ND	4.05	ND
CIS-1,2-DICHLOROETHENE	156-59-2	1.00	ND	3.97	ND
CHLOROFORM	67-66-3	1.00	ND	4.88	ND
1,1,1-TRICHLOROETHANE	71-55-6	1.00	ND	5.46	ND
CARBON TETRACHLORIDE	56-23-5	1.00	ND	6.29	ND
1,2-DICHLOROETHANE	107-06-2	1.00	ND	4.05	ND
BENZENE	71-43-2	1.00	ND	3.19	ND
TRICHLOROETHENE	79-01-6	1.00	ND	5.37	ND
1,2-DICHLOROPROPANE	78-87-5	1.00	ND	4.62	ND
TRANS-1,3-DICHLOROPROPENE	10061-02-6	1.00	ND	4.54	ND
TOLUENE	108-88-3	1.00	ND	3.77	ND
CIS-1,3-DICHLOROPROPENE	10061-01-5	1.00	ND	4.54	ND
1,1,2-TRICHLOROETHANE	79-00-5	1.00	ND	5.46	ND
TETRACHLOROETHENE	127-18-4	1.00	ND	6.78	ND
1,2-DIBROMOETHANE	106-93-4	1.00	ND	7.68	ND
CHLOROBENZENE	108-90-7	1.00	ND	4.60	ND
ETHYLBENZENE	100-41-4	1.00	ND	4.34	ND
XYLENE (M+P)	1330-20-7	1.00	ND	4.34	ND
XYLENE (O)	95-47-6	1.00	ND	4.34	ND
STYRENE	100-42-5	1.00	ND	4.26	ND
1,1,2,2-TETRACHLOROETHANE	79-34-5	1.00	ND	6.87	ND
1,3,5-TRIMETHYLBENZENE	108-67-8	1.00	ND	4.92	ND
1,2,4-TRIMETHYLBENZENE	95-63-6	1.00	ND	4.92	ND
1,3-DICHLOROBENZENE	541-73-1	1.00	ND	6.01	ND
1,4-DICHLOROBENZENE	106-46-7	1.00	ND	6.01	ND
1,2-DICHLOROBENZENE	95-50-1	1.00	ND	6.01	ND
1,2,4-TRICHLOROBENZENE	120-82-1	2.00	ND	14.8	ND
HEXACHLOROBUTADIENE	87-68-3	1.00	ND	10.7	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: *AMC*
DATE: 9/9/14

K PRIME, INC.
LABORATORY REPORT

K PRIME PROJECT: 9115
CLIENT PROJECT: B20019.15

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

SAMPLE ID: H3-SG-30
LAB NO: 124762
SAMPLE TYPE: AIR
DATE SAMPLED: 09/02/2014
TIME SAMPLED: 12:05
BATCH ID: 090214A1
DATE ANALYZED: 09/03/2014

COMPOUND NAME	CAS NO.	PPB (V/V)		µg/cu. m	
		MRL	SAMPLE CONC	MRL	SAMPLE CONC
DICHLORODIFLUOROMETHANE	75-71-8	1.00	ND	4.95	ND
DICHLOROTETRAFLUOROETHANE	76-14-2	1.00	ND	6.99	ND
CHLOROMETHANE	74-87-3	1.00	ND	2.07	ND
VINYL CHLORIDE	75-01-4	1.00	ND	2.56	ND
BROMOMETHANE	74-83-9	1.00	ND	3.88	ND
CHLOROETHANE	75-00-3	1.00	ND	2.64	ND
TRICHLOROFLUOROMETHANE	75-69-4	1.00	ND	5.62	ND
1,1-DICHLOROETHENE	75-35-4	1.00	ND	3.97	ND
TRICHLOROTRIFLUOROETHANE	76-13-1	1.00	1.97	7.66	15.1
METHYLENE CHLORIDE	75-09-2	1.00	ND	3.47	ND
TRANS-1,2-DICHLOROETHENE	156-60-5	1.00	ND	3.96	ND
1,1-DICHLOROETHANE	75-34-3	1.00	ND	4.05	ND
CIS-1,2-DICHLOROETHENE	156-59-2	1.00	ND	3.97	ND
CHLOROFORM	67-66-3	1.00	ND	4.88	ND
1,1,1-TRICHLOROETHANE	71-55-6	1.00	1.25	5.46	6.82
CARBON TETRACHLORIDE	56-23-5	1.00	ND	6.29	ND
1,2-DICHLOROETHANE	107-06-2	1.00	ND	4.05	ND
BENZENE	71-43-2	1.00	ND	3.19	ND
TRICHLOROETHENE	79-01-6	1.00	ND	5.37	ND
1,2-DICHLOROPROPANE	78-87-5	1.00	ND	4.62	ND
TRANS-1,3-DICHLOROPROPENE	10061-02-6	1.00	ND	4.54	ND
TOLUENE	108-88-3	1.00	ND	3.77	ND
CIS-1,3-DICHLOROPROPENE	10061-01-5	1.00	ND	4.54	ND
1,1,2-TRICHLOROETHANE	79-00-5	1.00	ND	5.46	ND
TETRACHLOROETHENE	127-18-4	1.00	14.3	6.78	97.3
1,2-DIBROMOETHANE	106-93-4	1.00	ND	7.88	ND
CHLOROBENZENE	108-90-7	1.00	ND	4.60	ND
ETHYLBENZENE	100-41-4	1.00	ND	4.34	ND
XYLENE (M+P)	1330-20-7	1.00	1.78	4.34	7.73
XYLENE (O)	95-47-6	1.00	1.03	4.34	4.47
STYRENE	100-42-5	1.00	ND	4.26	ND
1,1,2,2-TETRACHLOROETHANE	79-34-5	1.00	ND	6.87	ND
1,3,5-TRIMETHYLBENZENE	108-67-8	1.00	ND	4.92	ND
1,2,4-TRIMETHYLBENZENE	95-63-6	1.00	ND	4.92	ND
1,3-DICHLOROBENZENE	541-73-1	1.00	ND	6.01	ND
1,4-DICHLOROBENZENE	106-46-7	1.00	ND	6.01	ND
1,2-DICHLOROBENZENE	95-50-1	1.00	ND	6.01	ND
1,2,4-TRICHLOROBENZENE	120-82-1	2.00	ND	14.8	ND
HEXACHLOROBUTADIENE	87-68-3	1.00	ND	10.7	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: 9/9/14

K PRIME, INC.
LABORATORY REPORT

K PRIME PROJECT: 9115
CLIENT PROJECT: B20019.15

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

SAMPLE ID: H3-SG-13
LAB NO: 124764
SAMPLE TYPE: AIR
DATE SAMPLED: 09/02/2014
TIME SAMPLED: 08:33
BATCH ID: 090214A1
DATE ANALYZED: 09/03/2014

COMPOUND NAME	CAS NO.	PPB (V/V)		µg/cu. m	
		MRL	SAMPLE CONC	MRL	SAMPLE CONC
DICHLORODIFLUOROMETHANE	75-71-8	1.00	ND	4.95	ND
DICHLOROTETRAFLUOROETHANE	76-14-2	1.00	ND	6.99	ND
CHLOROMETHANE	74-87-3	1.00	ND	2.07	ND
VINYL CHLORIDE	75-01-4	1.00	ND	2.56	ND
BROMOMETHANE	74-83-9	1.00	ND	3.88	ND
CHLOROETHANE	75-00-3	1.00	ND	2.64	ND
TRICHLOROFLUOROMETHANE	75-69-4	1.00	ND	5.62	ND
1,1-DICHLOROETHENE	75-35-4	1.00	ND	3.97	ND
TRICHLOROTRIFLUOROETHANE	76-13-1	1.00	ND	7.66	ND
METHYLENE CHLORIDE	75-09-2	1.00	1.34	3.47	4.65
TRANS-1,2-DICHLOROETHENE	156-60-5	1.00	ND	3.96	ND
1,1-DICHLOROETHANE	75-34-3	1.00	ND	4.05	ND
CIS-1,2-DICHLOROETHENE	156-59-2	1.00	ND	3.97	ND
CHLOROFORM	67-66-3	1.00	196	4.88	956
1,1,1-TRICHLOROETHANE	71-55-6	1.00	14.0	5.46	76.5
CARBON TETRACHLORIDE	56-23-5	1.00	ND	6.29	ND
1,2-DICHLOROETHANE	107-06-2	1.00	ND	4.05	ND
BENZENE	71-43-2	1.00	ND	3.19	ND
TRICHLOROETHENE	79-01-6	1.00	ND	5.37	ND
1,2-DICHLOROPROPANE	78-87-5	1.00	ND	4.62	ND
TRANS-1,3-DICHLOROPROPENE	10061-02-6	1.00	ND	4.54	ND
TOLUENE	108-88-3	1.00	ND	3.77	ND
CIS-1,3-DICHLOROPROPENE	10061-01-5	1.00	ND	4.54	ND
1,1,2-TRICHLOROETHANE	79-00-5	1.00	ND	5.46	ND
TETRACHLOROETHENE	127-18-4	1.00	1.42	6.78	9.63
1,2-DIBROMOETHANE	106-93-4	1.00	ND	7.68	ND
CHLOROBENZENE	108-90-7	1.00	ND	4.60	ND
ETHYLBENZENE	100-41-4	1.00	ND	4.34	ND
XYLENE (M+P)	1330-20-7	1.00	ND	4.34	ND
XYLENE (O)	95-47-6	1.00	ND	4.34	ND
STYRENE	100-42-5	1.00	ND	4.26	ND
1,1,2,2-TETRACHLOROETHANE	79-34-5	1.00	ND	6.87	ND
1,3,5-TRIMETHYLBENZENE	108-67-8	1.00	ND	4.92	ND
1,2,4-TRIMETHYLBENZENE	95-63-6	1.00	ND	4.92	ND
1,3-DICHLOROBENZENE	541-73-1	1.00	ND	6.01	ND
1,4-DICHLOROBENZENE	106-46-7	1.00	ND	6.01	ND
1,2-DICHLOROBENZENE	95-50-1	1.00	ND	6.01	ND
1,2,4-TRICHLOROBENZENE	120-82-1	2.00	ND	14.8	ND
HEXACHLOROBUTADIENE	87-68-3	1.00	ND	10.7	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: 9/9/14

K PRIME, INC.
LABORATORY REPORT

K PRIME PROJECT: 9115
CLIENT PROJECT: B20019.15

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

SAMPLE ID: H3-SG-07
LAB NO: 124765
SAMPLE TYPE: AIR
DATE SAMPLED: 09/02/2014
TIME SAMPLED: 09:05
BATCH ID: 090214A1
DATE ANALYZED: 09/03/2014

COMPOUND NAME	CAS NO.	PPB (V/V)		µg/cu. m	
		MRL	SAMPLE CONC	MRL	SAMPLE CONC
DICHLORODIFLUOROMETHANE	75-71-8	1.00	ND	4.95	ND
DICHLOROTETRAFLUOROETHANE	76-14-2	1.00	ND	6.99	ND
CHLOROMETHANE	74-87-3	1.00	ND	2.07	ND
VINYL CHLORIDE	75-01-4	1.00	ND	2.56	ND
BROMOMETHANE	74-83-9	1.00	ND	3.88	ND
CHLOROETHANE	75-00-3	1.00	ND	2.64	ND
TRICHLOROFLUOROMETHANE	75-69-4	1.00	ND	5.62	ND
1,1-DICHLOROETHENE	75-35-4	1.00	ND	3.97	ND
TRICHLOROTRIFLUOROETHANE	76-13-1	1.00	ND	7.66	ND
METHYLENE CHLORIDE	75-09-2	1.00	ND	3.47	ND
TRANS-1,2-DICHLOROETHENE	156-60-5	1.00	ND	3.96	ND
1,1-DICHLOROETHANE	75-34-3	1.00	ND	4.05	ND
CIS-1,2-DICHLOROETHENE	156-59-2	1.00	ND	3.97	ND
CHLOROFORM	67-66-3	1.00	ND	4.88	ND
1,1,1-TRICHLOROETHANE	71-55-6	1.00	1.51	5.46	8.24
CARBON TETRACHLORIDE	56-23-5	1.00	ND	6.29	ND
1,2-DICHLOROETHANE	107-06-2	1.00	ND	4.05	ND
BENZENE	71-43-2	1.00	ND	3.19	ND
TRICHLOROETHENE	79-01-6	1.00	6.61	5.37	35.5
1,2-DICHLOROPROPANE	78-87-5	1.00	ND	4.62	ND
TRANS-1,3-DICHLOROPROPENE	10061-02-6	1.00	ND	4.54	ND
TOLUENE	108-88-3	1.00	ND	3.77	ND
CIS-1,3-DICHLOROPROPENE	10061-01-5	1.00	ND	4.54	ND
1,1,2-TRICHLOROETHANE	79-00-5	1.00	ND	5.46	ND
TETRACHLOROETHENE	127-18-4	1.00	23.8	6.78	161
1,2-DIBROMOETHANE	106-93-4	1.00	ND	7.68	ND
CHLOROBENZENE	108-90-7	1.00	ND	4.60	ND
ETHYLBENZENE	100-41-4	1.00	ND	4.34	ND
XYLENE (M+P)	1330-20-7	1.00	ND	4.34	ND
XYLENE (O)	95-47-6	1.00	ND	4.34	ND
STYRENE	100-42-5	1.00	ND	4.26	ND
1,1,2,2-TETRACHLOROETHANE	79-34-5	1.00	ND	6.87	ND
1,3,5-TRIMETHYLBENZENE	108-67-8	1.00	ND	4.92	ND
1,2,4-TRIMETHYLBENZENE	95-63-6	1.00	ND	4.92	ND
1,3-DICHLOROBENZENE	541-73-1	1.00	ND	6.01	ND
1,4-DICHLOROBENZENE	106-46-7	1.00	ND	6.01	ND
1,2-DICHLOROBENZENE	95-50-1	1.00	ND	6.01	ND
1,2,4-TRICHLOROBENZENE	120-82-1	2.00	ND	14.8	ND
HEXACHLOROBUTADIENE	87-68-3	1.00	ND	10.7	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: LMC
DATE: 9/9/14

K PRIME, INC.
LABORATORY REPORT

K PRIME PROJECT: 9115
CLIENT PROJECT: B20019.15

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

SAMPLE ID: H3-SG-37
LAB NO: 124767
SAMPLE TYPE: AIR
DATE SAMPLED: 09/02/2014
TIME SAMPLED: 12:03
BATCH ID: 090214A1
DATE ANALYZED: 09/04/2014

COMPOUND NAME	CAS NO.	PPB (V/V)		µg/cu. m	
		MRL	SAMPLE CONC	MRL	SAMPLE CONC
DICHLORODIFLUOROMETHANE	75-71-8	1.00	ND	4.95	ND
DICHLOROTETRAFLUOROETHANE	76-14-2	1.00	ND	6.99	ND
CHLOROMETHANE	74-87-3	1.00	ND	2.07	ND
VINYL CHLORIDE	75-01-4	1.00	ND	2.58	ND
BROMOMETHANE	74-83-9	1.00	ND	3.88	ND
CHLOROETHANE	75-00-3	1.00	ND	2.64	ND
TRICHLOROFLUOROMETHANE	75-69-4	1.00	1.33	5.62	7.47
1,1-DICHLOROETHENE	75-35-4	1.00	ND	3.97	ND
TRICHLOROTRIFLUOROETHANE	76-13-1	1.00	7.24	7.66	55.5
METHYLENE CHLORIDE	75-09-2	1.00	ND	3.47	ND
TRANS-1,2-DICHLOROETHENE	156-60-5	1.00	ND	3.96	ND
1,1-DICHLOROETHANE	75-34-3	1.00	ND	4.05	ND
CIS-1,2-DICHLOROETHENE	156-59-2	1.00	ND	3.97	ND
CHLOROFORM	67-66-3	1.00	ND	4.88	ND
1,1,1-TRICHLOROETHANE	71-55-6	1.00	6.54	5.46	35.7
CARBON TETRACHLORIDE	56-23-5	1.00	ND	6.29	ND
1,2-DICHLOROETHANE	107-06-2	1.00	ND	4.05	ND
BENZENE	71-43-2	1.00	ND	3.19	ND
TRICHLOROETHENE	79-01-6	1.00	33.1	5.37	178
1,2-DICHLOROPROPANE	78-87-5	1.00	ND	4.62	ND
TRANS-1,3-DICHLOROPROPENE	10061-02-6	1.00	ND	4.54	ND
TOLUENE	108-88-3	1.00	ND	3.77	ND
CIS-1,3-DICHLOROPROPENE	10061-01-5	1.00	ND	4.54	ND
1,1,2-TRICHLOROETHANE	79-00-5	1.00	ND	5.46	ND
TETRACHLOROETHENE	127-18-4	1.00	3.35	6.78	22.7
1,2-DIBROMOETHANE	106-93-4	1.00	ND	7.68	ND
CHLOROBENZENE	108-90-7	1.00	ND	4.60	ND
ETHYLBENZENE	100-41-4	1.00	ND	4.34	ND
XYLENE (M+P)	1330-20-7	1.00	ND	4.34	ND
XYLENE (O)	95-47-6	1.00	ND	4.34	ND
STYRENE	100-42-5	1.00	ND	4.26	ND
1,1,2,2-TETRACHLOROETHANE	79-34-5	1.00	ND	6.87	ND
1,3,5-TRIMETHYLBENZENE	108-67-8	1.00	ND	4.92	ND
1,2,4-TRIMETHYLBENZENE	95-63-6	1.00	ND	4.92	ND
1,3-DICHLOROBENZENE	541-73-1	1.00	ND	6.01	ND
1,4-DICHLOROBENZENE	106-46-7	1.00	ND	6.01	ND
1,2-DICHLOROBENZENE	95-50-1	1.00	ND	6.01	ND
1,2,4-TRICHLOROBENZENE	120-82-1	2.00	ND	14.8	ND
HEXACHLOROBUTADIENE	87-68-3	1.00	ND	10.7	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: R/MK
DATE: 9/9/14

K PRIME, INC.
LABORATORY REPORT

K PRIME PROJECT: 9115
CLIENT PROJECT: B20019.15

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

SAMPLE ID: H3-SG-33
LAB NO: 124769
SAMPLE TYPE: AIR
DATE SAMPLED: 09/02/2014
TIME SAMPLED: 11:59
BATCH ID: 090414A1
DATE ANALYZED: 09/04/2014

COMPOUND NAME	CAS NO.	PPB (V/V)		µg/cu. m	
		MRL	SAMPLE CONC	MRL	SAMPLE CONC
DICHLORODIFLUOROMETHANE	75-71-8	2.00	ND	9.89	ND
DICHLOROTETRAFLUROETHANE	76-14-2	2.00	ND	14.0	ND
CHLOROMETHANE	74-87-3	2.00	ND	4.13	ND
VINYL CHLORIDE	75-01-4	2.00	ND	5.11	ND
BROMOMETHANE	74-83-9	2.00	ND	7.77	ND
CHLOROETHANE	75-00-3	2.00	ND	5.28	ND
TRICHLOROFLUOROMETHANE	75-69-4	2.00	ND	11.2	ND
1,1-DICHLOROETHENE	75-35-4	2.00	ND	7.93	ND
TRICHLOROTRIFLUOROETHANE	76-13-1	2.00	ND	15.3	ND
METHYLENE CHLORIDE	75-09-2	2.00	ND	6.95	ND
TRANS-1,2-DICHLOROETHENE	156-60-5	2.00	ND	7.93	ND
1,1-DICHLOROETHANE	75-34-3	2.00	ND	8.10	ND
CIS-1,2-DICHLOROETHENE	156-59-2	2.00	ND	7.93	ND
CHLOROFORM	67-66-3	2.00	ND	9.77	ND
1,1,1-TRICHLOROETHANE	71-55-6	2.00	4.18	10.9	22.8
CARBON TETRACHLORIDE	56-23-5	2.00	ND	12.6	ND
1,2-DICHLOROETHANE	107-06-2	2.00	ND	8.09	ND
BENZENE	71-43-2	2.00	ND	6.39	ND
TRICHLOROETHENE	79-01-6	2.00	44.0	10.7	237
1,2-DICHLOROPROPANE	78-87-5	2.00	ND	9.24	ND
TRANS-1,3-DICHLOROPROPENE	10061-02-6	2.00	ND	9.08	ND
TOLUENE	108-88-3	2.00	ND	7.54	ND
CIS-1,3-DICHLOROPROPENE	10061-01-5	2.00	ND	9.08	ND
1,1,2-TRICHLOROETHANE	79-00-5	2.00	ND	10.9	ND
TETRACHLOROETHENE	127-18-4	2.00	194	13.6	1320
1,2-DIBROMOETHANE	106-93-4	2.00	ND	15.4	ND
CHLOROBENZENE	108-90-7	2.00	ND	9.21	ND
ETHYLBENZENE	100-41-4	2.00	ND	8.68	ND
XYLENE (M+P)	1330-20-7	2.00	ND	8.68	ND
XYLENE (O)	95-47-6	2.00	ND	8.68	ND
STYRENE	100-42-5	2.00	ND	8.52	ND
1,1,2,2-TETRACHLOROETHANE	79-34-5	2.00	ND	13.7	ND
1,3,5-TRIMETHYLBENZENE	108-67-8	2.00	ND	9.83	ND
1,2,4-TRIMETHYLBENZENE	95-63-6	2.00	ND	9.83	ND
1,3-DICHLOROBENZENE	541-73-1	2.00	ND	12.0	ND
1,4-DICHLOROBENZENE	106-46-7	2.00	ND	12.0	ND
1,2-DICHLOROBENZENE	95-50-1	2.00	ND	12.0	ND
1,2,4-TRICHLOROBENZENE	120-82-1	4.00	ND	29.7	ND
HEXACHLOROBUTADIENE	87-68-3	2.00	ND	21.3	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: 9/9/14

K PRIME, INC.
LABORATORY REPORT

K PRIME PROJECT: 9115
CLIENT PROJECT: B20019.15

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

SAMPLE ID: H3-SG-34
LAB NO: 124770
SAMPLE TYPE: AIR
DATE SAMPLED: 09/02/2014
TIME SAMPLED: 12:01
BATCH ID: 090414A1
DATE ANALYZED: 09/04/2014

COMPOUND NAME	CAS NO.	PPB (V/V)		µg/cu. m	
		MRL	SAMPLE CONC	MRL	SAMPLE CONC
CHLOROMETHANE	74-87-3	1.00	ND	2.07	ND
VINYL CHLORIDE	75-01-4	1.00	ND	2.56	ND
BROMOMETHANE	74-83-9	1.00	ND	3.88	ND
CHLOROETHANE	75-00-3	1.00	ND	2.64	ND
TRICHLOROFLUOROMETHANE	75-69-4	1.00	ND	5.62	ND
1,1-DICHLOROETHENE	75-35-4	1.00	ND	3.97	ND
TRICHLOROTRIFLUOROETHANE	76-13-1	1.00	2.03	7.66	15.6
METHYLENE CHLORIDE	75-09-2	1.00	ND	3.47	ND
TRANS-1,2-DICHLOROETHENE	156-60-5	1.00	ND	3.96	ND
1,1-DICHLOROETHANE	75-34-3	1.00	ND	4.05	ND
CIS-1,2-DICHLOROETHENE	156-59-2	1.00	ND	3.97	ND
CHLOROFORM	67-66-3	1.00	ND	4.88	ND
1,1,1-TRICHLOROETHANE	71-55-6	1.00	5.44	5.46	29.7
CARBON TETRACHLORIDE	56-23-5	1.00	ND	6.29	ND
1,2-DICHLOROETHANE	107-06-2	1.00	ND	4.05	ND
BENZENE	71-43-2	1.00	ND	3.19	ND
TRICHLOROETHENE	79-01-6	1.00	3.08	5.37	16.6
1,2-DICHLOROPROPANE	78-87-5	1.00	ND	4.62	ND
TRANS-1,3-DICHLOROPROPENE	10061-02-6	1.00	ND	4.54	ND
TOLUENE	108-88-3	1.00	ND	3.77	ND
CIS-1,3-DICHLOROPROPENE	10061-01-5	1.00	ND	4.54	ND
1,1,2-TRICHLOROETHANE	79-00-5	1.00	ND	5.46	ND
TETRACHLOROETHENE	127-18-4	1.00	9.85	6.78	66.8
1,2-DIBROMOETHANE	106-93-4	1.00	ND	7.68	ND
CHLOROBENZENE	106-90-7	1.00	ND	4.60	ND
ETHYLBENZENE	100-41-4	1.00	ND	4.34	ND
XYLENE (M+P)	1330-20-7	1.00	ND	4.34	ND
XYLENE (O)	95-47-6	1.00	ND	4.34	ND
STYRENE	100-42-5	1.00	ND	4.26	ND
1,1,2,2-TETRACHLOROETHANE	79-34-5	1.00	ND	6.87	ND
1,3,5-TRIMETHYLBENZENE	108-67-8	1.00	ND	4.92	ND
1,2,4-TRIMETHYLBENZENE	95-63-6	1.00	ND	4.92	ND
1,3-DICHLOROBENZENE	541-73-1	1.00	ND	6.01	ND
1,4-DICHLOROBENZENE	106-46-7	1.00	ND	6.01	ND
1,2-DICHLOROBENZENE	95-50-1	1.00	ND	6.01	ND
1,2,4-TRICHLOROBENZENE	120-82-1	2.00	ND	14.8	ND
HEXACHLOROBUTADIENE	87-68-3	1.00	ND	10.7	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:

MAK
9/9/14

K PRIME, INC.
LABORATORY REPORT

K PRIME PROJECT: 9115
CLIENT PROJECT: B20019.15

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

SAMPLE ID: H3-SG-32
LAB NO: 124771
SAMPLE TYPE: AIR
DATE SAMPLED: 09/02/2014
TIME SAMPLED: 11:57
BATCH ID: 090414A1
DATE ANALYZED: 09/04/2014

COMPOUND NAME	CAS NO.	PPB (V/V)		µg/cu. m	
		MRL	SAMPLE CONC	MRL	SAMPLE CONC
DICHLORODIFLUOROMETHANE	75-71-8	1.00	ND	4.95	ND
DICHLOROTETRAFLUOROETHANE	76-14-2	1.00	ND	6.99	ND
CHLOROMETHANE	74-87-3	1.00	ND	2.07	ND
VINYL CHLORIDE	75-01-4	1.00	ND	2.66	ND
BROMOMETHANE	74-83-9	1.00	ND	3.88	ND
CHLOROETHANE	75-00-3	1.00	ND	2.64	ND
TRICHLOROFLUOROMETHANE	75-69-4	1.00	ND	5.62	ND
1,1-DICHLOROETHENE	75-35-4	1.00	ND	3.97	ND
TRICHLOROTRIFLUOROETHANE	76-13-1	1.00	9.25	7.66	70.9
METHYLENE CHLORIDE	75-09-2	1.00	ND	3.47	ND
TRANS-1,2-DICHLOROETHENE	156-60-5	1.00	ND	3.96	ND
1,1-DICHLOROETHANE	75-34-3	1.00	ND	4.05	ND
CIS-1,2-DICHLOROETHENE	156-59-2	1.00	ND	3.97	ND
CHLOROFORM	67-66-3	1.00	ND	4.88	ND
1,1,1-TRICHLOROETHANE	71-55-6	1.00	6.35	5.46	34.7
CARBON TETRACHLORIDE	56-23-5	1.00	ND	6.29	ND
1,2-DICHLOROETHANE	107-06-2	1.00	ND	4.05	ND
BENZENE	71-43-2	1.00	ND	3.19	ND
TRICHLOROETHENE	79-01-6	1.00	2.52	5.37	13.5
1,2-DICHLOROPROPANE	78-87-5	1.00	ND	4.62	ND
TRANS-1,3-DICHLOROPROPENE	10061-02-6	1.00	ND	4.54	ND
TOLUENE	108-88-3	1.00	ND	3.77	ND
CIS-1,3-DICHLOROPROPENE	10061-01-5	1.00	ND	4.54	ND
1,1,2-TRICHLOROETHANE	79-00-5	1.00	ND	5.46	ND
TETRACHLOROETHENE	127-18-4	1.00	118	6.78	798
1,2-DIBROMOETHANE	106-93-4	1.00	ND	7.68	ND
CHLOROBENZENE	108-90-7	1.00	ND	4.60	ND
ETHYLBENZENE	100-41-4	1.00	ND	4.34	ND
XYLENE (M+P)	1330-20-7	1.00	ND	4.34	ND
XYLENE (O)	95-47-6	1.00	ND	4.34	ND
STYRENE	100-42-5	1.00	ND	4.26	ND
1,1,2,2-TETRACHLOROETHANE	79-34-5	1.00	ND	6.87	ND
1,3,5-TRIMETHYLBENZENE	108-67-8	1.00	ND	4.92	ND
1,2,4-TRIMETHYLBENZENE	95-63-6	1.00	ND	4.92	ND
1,3-DICHLOROENZENE	541-73-1	1.00	ND	6.01	ND
1,4-DICHLOROENZENE	106-46-7	1.00	ND	6.01	ND
1,2-DICHLOROENZENE	95-50-1	1.00	ND	6.01	ND
1,2,4-TRICHLOROENZENE	120-82-1	2.00	ND	14.8	ND
HEXACHLOROBUTADIENE	87-88-3	1.00	ND	10.7	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: 9/9/14

K PRIME, INC.
LABORATORY REPORT

K PRIME PROJECT: 9115
CLIENT PROJECT: B20019.15

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

SAMPLE ID: H3-SG-11
LAB NO: 124772
SAMPLE TYPE: AIR
DATE SAMPLED: 09/02/2014
TIME SAMPLED: 08:42
BATCH ID: 090414A1
DATE ANALYZED: 09/04/2014

COMPOUND NAME	CAS NO.	PPB (V/V)		µg/cu. m	
		MRL	SAMPLE CONC	MRL	SAMPLE CONC
DICHLORODIFLUOROMETHANE	75-71-8	2.50	ND	12.4	ND
DICHLOROTETRAFLUOROETHANE	76-14-2	2.50	ND	17.5	ND
CHLOROMETHANE	74-87-3	2.50	ND	5.16	ND
VINYL CHLORIDE	75-01-4	2.50	ND	6.39	ND
BROMOMETHANE	74-83-9	2.50	ND	9.71	ND
CHLOROETHANE	75-00-3	2.50	ND	6.60	ND
TRICHLOROFLUOROMETHANE	75-69-4	2.50	ND	14.0	ND
1,1-DICHLOROETHENE	75-35-4	2.50	ND	9.91	ND
TRICHLOROTRIFLUOROETHANE	76-13-1	2.50	239	19.2	1830
METHYLENE CHLORIDE	75-09-2	2.50	ND	8.68	ND
TRANS-1,2-DICHLOROETHENE	156-60-5	2.50	ND	9.91	ND
1,1-DICHLOROETHANE	75-34-3	2.50	ND	10.1	ND
CIS-1,2-DICHLOROETHENE	156-59-2	2.50	ND	9.91	ND
CHLOROFORM	67-66-3	2.50	ND	12.2	ND
1,1,1-TRICHLOROETHANE	71-55-6	2.50	12.8	13.6	69.8
CARBON TETRACHLORIDE	56-23-5	2.50	ND	15.7	ND
1,2-DICHLOROETHANE	107-06-2	2.50	ND	10.1	ND
BENZENE	71-43-2	2.50	ND	7.99	ND
TRICHLOROETHENE	79-01-6	2.50	ND	13.4	ND
1,2-DICHLOROPROPANE	78-87-5	2.50	ND	11.6	ND
TRANS-1,3-DICHLOROPROPENE	10061-02-6	2.50	ND	11.3	ND
TOLUENE	108-88-3	2.50	ND	9.42	ND
CIS-1,3-DICHLOROPROPENE	10061-01-5	2.50	ND	11.3	ND
1,1,2-TRICHLOROETHANE	79-00-5	2.50	ND	13.6	ND
TETRACHLOROETHENE	127-18-4	2.50	3.21	17.0	21.8
1,2-DIBROMOETHANE	106-93-4	2.50	ND	19.2	ND
CHLOROBENZENE	108-90-7	2.50	ND	11.5	ND
ETHYLBENZENE	100-41-4	2.50	ND	10.9	ND
XYLENE (M+P)	1330-20-7	2.50	ND	10.9	ND
XYLENE (O)	95-47-6	2.50	ND	10.9	ND
STYRENE	100-42-5	2.50	ND	10.6	ND
1,1,2,2-TETRACHLOROETHANE	79-34-5	2.50	ND	17.2	ND
1,3,5-TRIMETHYLBENZENE	108-67-8	2.50	ND	12.3	ND
1,2,4-TRIMETHYLBENZENE	95-63-6	2.50	ND	12.3	ND
1,3-DICHLOROBENZENE	541-73-1	2.50	ND	15.0	ND
1,4-DICHLOROBENZENE	106-46-7	2.50	ND	15.0	ND
1,2-DICHLOROBENZENE	95-50-1	2.50	ND	15.0	ND
1,2,4-TRICHLOROBENZENE	120-82-1	5.00	ND	37.1	ND
HEXACHLOROBUTADIENE	87-68-3	2.50	ND	26.7	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: *B. McC*
DATE: 9/9/14

K PRIME, INC.
LABORATORY REPORT

K PRIME PROJECT: 9115
CLIENT PROJECT: B20019.15

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

SAMPLE ID: H3-SG-08
LAB NO: 124773
SAMPLE TYPE: AIR
DATE SAMPLED: 09/02/2014
TIME SAMPLED: 09:15
BATCH ID: 090414A1
DATE ANALYZED: 09/04/2014

COMPOUND NAME	CAS NO.	PPB (V/V)		µg/cu. m	
		MRL	SAMPLE CONC	MRL	SAMPLE CONC
DICHLORODIFLUOROMETHANE	75-71-8	20.0	ND	98.9	ND
DICHLOROTETRAFLUOROETHANE	76-14-2	20.0	ND	140	ND
CHLOROMETHANE	74-87-3	20.0	ND	41.3	ND
VINYL CHLORIDE	75-01-4	20.0	ND	51.1	ND
BROMOMETHANE	74-83-9	20.0	ND	77.7	ND
CHLOROETHANE	75-00-3	20.0	ND	52.8	ND
TRICHLOROFLUOROMETHANE	75-69-4	20.0	ND	112	ND
1,1-DICHLOROETHENE	75-35-4	20.0	ND	79.3	ND
TRICHLOROTRIFLUOROETHANE	76-13-1	20.0	376	153	2880
METHYLENE CHLORIDE	75-09-2	20.0	ND	69.5	ND
TRANS-1,2-DICHLOROETHENE	156-60-5	20.0	ND	79.3	ND
1,1-DICHLOROETHANE	75-34-3	20.0	ND	81.0	ND
CIS-1,2-DICHLOROETHENE	156-59-2	20.0	ND	79.3	ND
CHLOROFORM	67-66-3	20.0	ND	97.7	ND
1,1,1-TRICHLOROETHANE	71-55-6	20.0	ND	109	ND
CARBON TETRACHLORIDE	56-23-5	20.0	ND	126	ND
1,2-DICHLOROETHANE	107-06-2	20.0	ND	80.9	ND
BENZENE	71-43-2	20.0	ND	63.9	ND
TRICHLOROETHENE	79-01-6	20.0	ND	107	ND
1,2-DICHLOROPROPANE	78-87-5	20.0	ND	92.4	ND
TRANS-1,3-DICHLOROPROPENE	10061-02-6	20.0	ND	90.8	ND
TOLUENE	108-88-3	20.0	ND	75.4	ND
CIS-1,3-DICHLOROPROPENE	10061-01-5	20.0	ND	90.8	ND
1,1,2-TRICHLOROETHANE	79-00-5	20.0	ND	109	ND
TETRACHLOROETHENE	127-18-4	20.0	2290	136	15500
1,2-DIBROMOETHANE	106-93-4	20.0	ND	154	ND
CHLOROBENZENE	108-90-7	20.0	ND	92.1	ND
ETHYLBENZENE	100-41-4	20.0	ND	86.8	ND
XYLENE (M+P)	1330-20-7	20.0	ND	86.8	ND
XYLENE (O)	95-47-6	20.0	ND	86.8	ND
STYRENE	100-42-5	20.0	ND	85.2	ND
1,1,2,2-TETRACHLOROETHANE	79-34-5	20.0	ND	137	ND
1,3,5-TRIMETHYLBENZENE	108-67-8	20.0	ND	98.3	ND
1,2,4-TRIMETHYLBENZENE	95-63-6	20.0	ND	98.3	ND
1,3-DICHLOROBENZENE	541-73-1	20.0	ND	120	ND
1,4-DICHLOROBENZENE	106-46-7	20.0	ND	120	ND
1,2-DICHLOROBENZENE	95-50-1	20.0	ND	120	ND
1,2,4-TRICHLOROBENZENE	120-82-1	40.0	ND	297	ND
HEXACHLOROBUTADIENE	87-68-3	20.0	ND	213	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: 9/9/14

K PRIME, INC.
LABORATORY REPORT

K PRIME PROJECT: 9115
 CLIENT PROJECT: B20019.15

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

SAMPLE ID: H3-SG-08DUPE
 LAB NO: 124774
 SAMPLE TYPE: AIR
 DATE SAMPLED: 09/02/2014
 TIME SAMPLED: 09:23
 BATCH ID: 090414A1
 DATE ANALYZED: 09/04/2014

COMPOUND NAME	CAS NO.	PPB (V/V)		µg/cu. m	
		MRL	SAMPLE CONC	MRL	SAMPLE CONC
DICHLORODIFLUOROMETHANE	75-71-8	20.0	ND	98.9	ND
DICHLOROTETRAFLUOROETHANE	76-14-2	20.0	ND	140	ND
CHLOROMETHANE	74-87-3	20.0	ND	41.3	ND
VINYL CHLORIDE	75-01-4	20.0	ND	51.1	ND
BROMOMETHANE	74-83-9	20.0	ND	77.7	ND
CHLOROETHANE	75-00-3	20.0	ND	52.8	ND
TRICHLOROFLUOROMETHANE	75-69-4	20.0	ND	112	ND
1,1-DICHLOROETHENE	75-35-4	20.0	ND	79.3	ND
TRICHLOROTRIFLUOROETHANE	76-13-1	20.0	322	153	2470
METHYLENE CHLORIDE	75-09-2	20.0	ND	69.5	ND
TRANS-1,2-DICHLOROETHENE	156-60-5	20.0	ND	79.3	ND
1,1-DICHLOROETHANE	75-34-3	20.0	ND	81.0	ND
CIS-1,2-DICHLOROETHENE	156-59-2	20.0	ND	79.3	ND
CHLOROFORM	67-66-3	20.0	ND	97.7	ND
1,1,1-TRICHLOROETHANE	71-55-6	20.0	ND	109	ND
CARBON TETRACHLORIDE	56-23-5	20.0	ND	126	ND
1,2-DICHLOROETHANE	107-06-2	20.0	ND	80.9	ND
BENZENE	71-43-2	20.0	ND	63.9	ND
TRICHLOROETHENE	79-01-6	20.0	ND	107	ND
1,2-DICHLOROPROPANE	78-87-5	20.0	ND	92.4	ND
TRANS-1,3-DICHLOROPROPENE	10061-02-6	20.0	ND	90.8	ND
TOLUENE	108-88-3	20.0	ND	75.4	ND
CIS-1,3-DICHLOROPROPENE	10061-01-5	20.0	ND	90.8	ND
1,1,2-TRICHLOROETHANE	79-00-5	20.0	ND	109	ND
TETRACHLOROETHENE	127-18-4	20.0	1820	136	12300
1,2-DIBROMOETHANE	108-93-4	20.0	ND	154	ND
CHLOROBENZENE	108-90-7	20.0	ND	92.1	ND
ETHYLBENZENE	100-41-4	20.0	ND	86.8	ND
XYLENE (M+P)	1330-20-7	20.0	ND	86.8	ND
XYLENE (O)	95-47-6	20.0	ND	86.8	ND
STYRENE	100-42-5	20.0	ND	85.2	ND
1,1,2,2-TETRACHLOROETHANE	79-34-5	20.0	ND	137	ND
1,3,5-TRIMETHYLBENZENE	108-67-8	20.0	ND	98.3	ND
1,2,4-TRIMETHYLBENZENE	95-63-6	20.0	ND	98.3	ND
1,3-DICHLOROBENZENE	541-73-1	20.0	ND	120	ND
1,4-DICHLOROBENZENE	106-46-7	20.0	ND	120	ND
1,2-DICHLOROBENZENE	95-50-1	20.0	ND	120	ND
1,2,4-TRICHLOROBENZENE	120-82-1	40.0	ND	297	ND
HEXACHLOROBUTADIENE	87-68-3	20.0	ND	213	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: 9/9/14

K PRIME, INC.
LABORATORY REPORT

K PRIME PROJECT: 9115
CLIENT PROJECT: B20019.15

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

SAMPLE ID: H3-SG-04
LAB NO: 124775
SAMPLE TYPE: AIR
DATE SAMPLED: 09/02/2014
TIME SAMPLED: 09:57
BATCH ID: 090414A1
DATE ANALYZED: 09/04/2014

COMPOUND NAME	CAS NO.	PPB (V/V)		µg/cu. m	
		MRL	SAMPLE CONC	MRL	SAMPLE CONC
DICHLORODIFLUOROMETHANE	75-71-8	40.0	ND	198	ND
DICHLOROTETRAFLUOROETHANE	76-14-2	40.0	ND	280	ND
CHLOROMETHANE	74-87-3	40.0	ND	82.6	ND
VINYL CHLORIDE	75-01-4	40.0	ND	102	ND
BROMOMETHANE	74-83-9	40.0	ND	155	ND
CHLOROETHANE	75-00-3	40.0	ND	106	ND
TRICHLOROFLUOROMETHANE	75-69-4	40.0	ND	225	ND
1,1-DICHLOROETHENE	75-35-4	40.0	ND	159	ND
TRICHLOROTRIFLUOROETHANE	76-13-1	40.0	7260	307	55600
METHYLENE CHLORIDE	75-09-2	40.0	ND	139	ND
TRANS-1,2-DICHLOROETHENE	156-60-5	40.0	ND	159	ND
1,1-DICHLOROETHANE	75-34-3	40.0	ND	162	ND
CIS-1,2-DICHLOROETHENE	156-59-2	40.0	ND	159	ND
CHLOROFORM	67-66-3	40.0	ND	195	ND
1,1,1-TRICHLOROETHANE	71-55-6	40.0	538	218	2940
CARBON TETRACHLORIDE	56-23-5	40.0	ND	252	ND
1,2-DICHLOROETHANE	107-06-2	40.0	ND	162	ND
BENZENE	71-43-2	40.0	ND	128	ND
TRICHLOROETHENE	79-01-6	40.0	ND	215	ND
1,2-DICHLOROPROPANE	78-87-5	40.0	ND	185	ND
TRANS-1,3-DICHLOROPROPENE	10061-02-6	40.0	ND	182	ND
TOLUENE	108-88-3	40.0	ND	151	ND
CIS-1,3-DICHLOROPROPENE	10061-01-5	40.0	ND	182	ND
1,1,2-TRICHLOROETHANE	79-00-5	40.0	ND	218	ND
TETRACHLOROETHENE	127-18-4	40.0	183	271	1240
1,2-DIBROMOETHANE	106-93-4	40.0	ND	307	ND
CHLOROBENZENE	108-90-7	40.0	ND	184	ND
ETHYLBENZENE	100-41-4	40.0	ND	174	ND
XYLENE (M+P)	1330-20-7	40.0	ND	174	ND
XYLENE (O)	95-47-6	40.0	ND	174	ND
STYRENE	100-42-5	40.0	ND	170	ND
1,1,2,2-TETRACHLOROETHANE	79-34-5	40.0	ND	275	ND
1,3,5-TRIMETHYLBENZENE	108-67-8	40.0	ND	197	ND
1,2,4-TRIMETHYLBENZENE	95-63-6	40.0	ND	197	ND
1,3-DICHLOROBENZENE	541-73-1	40.0	ND	241	ND
1,4-DICHLOROBENZENE	106-46-7	40.0	ND	241	ND
1,2-DICHLOROBENZENE	95-50-1	40.0	ND	241	ND
1,2,4-TRICHLOROBENZENE	120-82-1	80.0	ND	594	ND
HEXACHLOROBUTADIENE	87-68-3	40.0	ND	427	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: 9/9/14

K PRIME, INC.
LABORATORY REPORT

K PRIME PROJECT: 9115
CLIENT PROJECT: B20019.15

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

SAMPLE ID: H3-SG-35
LAB NO: 124778
SAMPLE TYPE: AIR
DATE SAMPLED: 09/02/2014
TIME SAMPLED: 11:02
BATCH ID: 090414A1
DATE ANALYZED: 09/05/2014

COMPOUND NAME	CAS NO.	PPB (V/V)		µg/cu. m	
		MRL	SAMPLE CONC	MRL	SAMPLE CONC
DICHLORODIFLUOROMETHANE	75-71-8	2.50	ND	12.4	ND
DICHLOROTETRAFLUOROETHANE	76-14-2	2.50	ND	17.5	ND
CHLOROMETHANE	74-87-3	2.50	ND	5.16	ND
VINYL CHLORIDE	75-01-4	2.50	ND	6.39	ND
BROMOMETHANE	74-83-9	2.50	ND	9.71	ND
CHLOROETHANE	75-00-3	2.50	ND	6.60	ND
TRICHLOROFLUOROMETHANE	75-69-4	2.50	ND	14.0	ND
1,1-DICHLOROETHENE	75-35-4	2.50	ND	9.91	ND
TRICHLOROTRIFLUOROETHANE	76-13-1	2.50	12.0	19.2	91.9
METHYLENE CHLORIDE	75-09-2	2.50	ND	8.68	ND
TRANS-1,2-DICHLOROETHENE	156-60-5	2.50	ND	9.91	ND
1,1-DICHLOROETHANE	75-34-3	2.50	ND	10.1	ND
CIS-1,2-DICHLOROETHENE	156-59-2	2.50	ND	9.91	ND
CHLOROFORM	67-66-3	2.50	ND	12.2	ND
1,1,1-TRICHLOROETHANE	71-55-6	2.50	5.62	13.6	30.7
CARBON TETRACHLORIDE	56-23-5	2.50	ND	15.7	ND
1,2-DICHLOROETHANE	107-06-2	2.50	ND	10.1	ND
BENZENE	71-43-2	2.50	ND	7.99	ND
TRICHLOROETHENE	79-01-6	2.50	ND	13.4	ND
1,2-DICHLOROPROPANE	78-87-5	2.50	ND	11.6	ND
TRANS-1,3-DICHLOROPROPENE	10061-02-6	2.50	ND	11.3	ND
TOLUENE	108-88-3	2.50	ND	9.42	ND
CIS-1,3-DICHLOROPROPENE	10061-01-5	2.50	ND	11.3	ND
1,1,2-TRICHLOROETHANE	79-00-5	2.50	ND	13.6	ND
TETRACHLOROETHENE	127-18-4	2.50	6.93	17.0	47.0
1,2-DIBROMOETHANE	106-93-4	2.50	ND	19.2	ND
CHLOROBENZENE	108-90-7	2.50	ND	11.5	ND
ETHYLBENZENE	100-41-4	2.50	ND	10.9	ND
XYLENE (M+P)	1330-20-7	2.50	ND	10.9	ND
XYLENE (O)	95-47-6	2.50	ND	10.9	ND
STYRENE	100-42-5	2.50	ND	10.6	ND
1,1,2,2-TETRACHLOROETHANE	79-34-5	2.50	ND	17.2	ND
1,3,5-TRIMETHYLBENZENE	108-67-8	2.50	ND	12.3	ND
1,2,4-TRIMETHYLBENZENE	95-63-6	2.50	ND	12.3	ND
1,3-DICHLOROBENZENE	541-73-1	2.50	ND	15.0	ND
1,4-DICHLOROBENZENE	106-46-7	2.50	ND	15.0	ND
1,2-DICHLOROBENZENE	95-50-1	2.50	ND	15.0	ND
1,2,4-TRICHLOROBENZENE	120-82-1	5.00	ND	37.1	ND
HEXACHLOROBUTADIENE	87-68-3	2.50	ND	26.7	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: AMK
DATE: 9/9/14

K PRIME, INC.
LABORATORY REPORT

K PRIME PROJECT: 9115
CLIENT PROJECT: B20019.15

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

SAMPLE ID: H3-SG-36DUPE
LAB NO: 124779
SAMPLE TYPE: AIR
DATE SAMPLED: 09/02/2014
TIME SAMPLED: 11:20
BATCH ID: 090414A1
DATE ANALYZED: 09/05/2014

COMPOUND NAME	CAS NO.	PPB (V/V)		µg/cu. m	
		MRL	SAMPLE CONC	MRL	SAMPLE CONC
DICHLORODIFLUOROMETHANE	75-71-8	5.00	ND	24.7	ND
DICHLOROTETRAFLUOROETHANE	76-14-2	5.00	ND	35.0	ND
CHLOROMETHANE	74-87-3	5.00	ND	10.3	ND
VINYL CHLORIDE	75-01-4	5.00	ND	12.8	ND
BROMOMETHANE	74-83-9	5.00	ND	19.4	ND
CHLOROETHANE	75-00-3	5.00	ND	13.2	ND
TRICHLOROFLUOROMETHANE	75-69-4	5.00	ND	28.1	ND
1,1-DICHLOROETHENE	75-35-4	5.00	ND	19.8	ND
TRICHLOROTRIFLUOROETHANE	76-13-1	5.00	11.4	38.3	87.7
METHYLENE CHLORIDE	75-09-2	5.00	ND	17.4	ND
TRANS-1,2-DICHLOROETHENE	156-60-5	5.00	ND	19.8	ND
1,1-DICHLOROETHANE	75-34-3	5.00	ND	20.2	ND
CIS-1,2-DICHLOROETHENE	156-59-2	5.00	ND	19.8	ND
CHLOROFORM	67-66-3	5.00	ND	24.4	ND
1,1,1-TRICHLOROETHANE	71-55-6	5.00	33.6	27.3	183
CARBON TETRACHLORIDE	56-23-5	5.00	ND	31.5	ND
1,2-DICHLOROETHANE	107-06-2	5.00	ND	20.2	ND
BENZENE	71-43-2	5.00	ND	16.0	ND
TRICHLOROETHENE	79-01-6	5.00	30.1	26.9	162
1,2-DICHLOROPROPANE	78-87-5	5.00	ND	23.1	ND
TRANS-1,3-DICHLOROPROPENE	10061-02-6	5.00	ND	22.7	ND
TOLUENE	108-88-3	5.00	ND	18.8	ND
CIS-1,3-DICHLOROPROPENE	10061-01-5	5.00	ND	22.7	ND
1,1,2-TRICHLOROETHANE	79-00-5	5.00	ND	27.3	ND
TETRACHLOROETHENE	127-18-4	5.00	461	33.9	3130
1,2-DIBROMOETHANE	106-93-4	5.00	ND	38.4	ND
CHLOROBENZENE	108-90-7	5.00	ND	23.0	ND
ETHYLBENZENE	100-41-4	5.00	ND	21.7	ND
XYLENE (M+P)	1330-20-7	5.00	ND	21.7	ND
XYLENE (O)	95-47-6	5.00	ND	21.7	ND
STYRENE	100-42-5	5.00	ND	21.3	ND
1,1,2,2-TETRACHLOROETHANE	79-34-5	5.00	ND	34.3	ND
1,3,5-TRIMETHYLBENZENE	108-67-8	5.00	ND	24.6	ND
1,2,4-TRIMETHYLBENZENE	95-63-6	5.00	ND	24.6	ND
1,3-DICHLOROBENZENE	541-73-1	5.00	ND	30.1	ND
1,4-DICHLOROBENZENE	106-46-7	5.00	ND	30.1	ND
1,2-DICHLOROBENZENE	95-50-1	5.00	ND	30.1	ND
1,2,4-TRICHLOROBENZENE	120-82-1	10.0	ND	74.2	ND
HEXACHLOROBUTADIENE	87-68-3	5.00	ND	53.3	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:

RPK
9/9/14

K PRIME, INC.
LABORATORY REPORT

K PRIME PROJECT: 9115
CLIENT PROJECT: B20019.15

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

SAMPLE ID: H3-SG-23
LAB NO: 124781
SAMPLE TYPE: AIR
DATE SAMPLED: 09/02/2014
TIME SAMPLED: 13:50
BATCH ID: 090414A1
DATE ANALYZED: 09/04/2014

COMPOUND NAME	CAS NO.	PPB (V/V)		µg/cu. m	
		MRL	SAMPLE CONC	MRL	SAMPLE CONC
DICHLORODIFLUOROMETHANE	75-71-8	1.00	ND	4.95	ND
DICHLOROTETRAFLUOROETHANE	76-14-2	1.00	ND	6.99	ND
CHLOROMETHANE	74-87-3	1.00	ND	2.07	ND
VINYL CHLORIDE	75-01-4	1.00	ND	2.56	ND
BROMOMETHANE	74-83-9	1.00	ND	3.88	ND
CHLOROETHANE	75-00-3	1.00	ND	2.64	ND
TRICHLOROFLUOROMETHANE	75-69-4	1.00	ND	5.62	ND
1,1-DICHLOROETHENE	75-35-4	1.00	ND	3.97	ND
TRICHLOROTRIFLUOROETHANE	76-13-1	1.00	17.1	7.66	131
METHYLENE CHLORIDE	75-09-2	1.00	ND	3.47	ND
TRANS-1,2-DICHLOROETHENE	156-60-5	1.00	ND	3.96	ND
1,1-DICHLOROETHANE	75-34-3	1.00	ND	4.05	ND
CIS-1,2-DICHLOROETHENE	156-59-2	1.00	ND	3.97	ND
CHLOROFORM	67-66-3	1.00	ND	4.88	ND
1,1,1-TRICHLOROETHANE	71-55-6	1.00	ND	5.46	ND
CARBON TETRACHLORIDE	56-23-5	1.00	ND	6.29	ND
1,2-DICHLOROETHANE	107-06-2	1.00	ND	4.05	ND
BENZENE	71-43-2	1.00	ND	3.19	ND
TRICHLOROETHENE	79-01-6	1.00	25.7	5.37	138
1,2-DICHLOROPROPANE	78-87-5	1.00	ND	4.62	ND
TRANS-1,3-DICHLOROPROPENE	10061-02-6	1.00	ND	4.54	ND
TOLUENE	108-88-3	1.00	1.70	3.77	6.41
CIS-1,3-DICHLOROPROPENE	10061-01-5	1.00	ND	4.54	ND
1,1,2-TRICHLOROETHANE	79-00-5	1.00	ND	5.46	ND
TETRACHLOROETHENE	127-18-4	1.00	51.5	6.78	349
1,2-DIBROMOETHANE	106-93-4	1.00	ND	7.68	ND
CHLOROBENZENE	108-90-7	1.00	ND	4.60	ND
ETHYLBENZENE	100-41-4	1.00	ND	4.34	ND
XYLENE (M+P)	1330-20-7	1.00	2.07	4.34	8.99
XYLENE (O)	95-47-6	1.00	1.71	4.34	7.42
STYRENE	100-42-5	1.00	ND	4.26	ND
1,1,2,2-TETRACHLOROETHANE	79-34-5	1.00	ND	6.87	ND
1,3,5-TRIMETHYLBENZENE	108-67-8	1.00	10.6	4.92	52.1
1,2,4-TRIMETHYLBENZENE	95-63-6	1.00	25.1	4.92	123
1,3-DICHLOROBENZENE	541-73-1	1.00	ND	6.01	ND
1,4-DICHLOROBENZENE	106-46-7	1.00	ND	6.01	ND
1,2-DICHLOROBENZENE	95-50-1	1.00	ND	6.01	ND
1,2,4-TRICHLOROBENZENE	120-82-1	2.00	ND	14.8	ND
HEXACHLOROBUTADIENE	87-68-3	1.00	ND	10.7	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: 9/9/14

K PRIME, INC.
LABORATORY REPORT

K PRIME PROJECT: 9115
CLIENT PROJECT: B20019.15

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

SAMPLE ID: H3-SG-25
LAB NO: 124786
SAMPLE TYPE: AIR
DATE SAMPLED: 09/02/2014
TIME SAMPLED: 13:47
BATCH ID: 090414A1
DATE ANALYZED: 09/04/2014

COMPOUND NAME	CAS NO.	PPB (V/V)		µg/cu. m	
		MRL	SAMPLE CONC	MRL	SAMPLE CONC
CHLOROMETHANE	74-87-3	2.00	ND	4.13	ND
VINYL CHLORIDE	75-01-4	2.00	ND	5.11	ND
BROMOMETHANE	74-83-9	2.00	ND	7.77	ND
CHLOROETHANE	75-00-3	2.00	ND	5.28	ND
TRICHLOROFLUOROMETHANE	75-69-4	2.00	ND	11.2	ND
1,1-DICHLOROETHENE	75-35-4	2.00	ND	7.93	ND
TRICHLOROTRIFLUOROETHANE	76-13-1	2.00	6.40	15.3	49.0
METHYLENE CHLORIDE	75-09-2	2.00	ND	6.95	ND
TRANS-1,2-DICHLOROETHENE	156-60-5	2.00	ND	7.93	ND
1,1-DICHLOROETHANE	75-34-3	2.00	ND	8.10	ND
CIS-1,2-DICHLOROETHENE	156-59-2	2.00	ND	7.93	ND
CHLOROFORM	67-66-3	2.00	ND	9.77	ND
1,1,1-TRICHLOROETHANE	71-55-6	2.00	4.29	10.9	23.4
CARBON TETRACHLORIDE	56-23-5	2.00	2.53	12.6	15.9
1,2-DICHLOROETHANE	107-06-2	2.00	ND	8.09	ND
BENZENE	71-43-2	2.00	ND	6.39	ND
TRICHLOROETHENE	79-01-6	2.00	ND	10.7	ND
1,2-DICHLOROPROPANE	78-87-5	2.00	ND	9.24	ND
TRANS-1,3-DICHLOROPROPENE	10061-02-6	2.00	ND	9.08	ND
TOLUENE	108-88-3	2.00	ND	7.54	ND
CIS-1,3-DICHLOROPROPENE	10061-01-5	2.00	ND	9.08	ND
1,1,2-TRICHLOROETHANE	79-00-5	2.00	ND	10.9	ND
TETRACHLOROETHENE	127-18-4	2.00	10.8	13.6	73.3
1,2-DIBROMOETHANE	106-93-4	2.00	ND	15.4	ND
CHLOROBENZENE	108-90-7	2.00	ND	9.21	ND
ETHYLBENZENE	100-41-4	2.00	ND	8.68	ND
XYLENE (M+P)	1330-20-7	2.00	2.28	8.68	9.90
XYLENE (O)	95-47-6	2.00	ND	8.68	ND
STYRENE	100-42-5	2.00	ND	8.52	ND
1,1,2,2-TETRACHLOROETHANE	79-34-5	2.00	ND	13.7	ND
1,3,5-TRIMETHYLBENZENE	108-67-8	2.00	ND	9.83	ND
1,2,4-TRIMETHYLBENZENE	95-63-6	2.00	ND	9.83	ND
1,3-DICHLOROBENZENE	541-73-1	2.00	ND	12.0	ND
1,4-DICHLOROBENZENE	106-46-7	2.00	ND	12.0	ND
1,2-DICHLOROBENZENE	95-50-1	2.00	ND	12.0	ND
1,2,4-TRICHLOROBENZENE	120-82-1	4.00	ND	29.7	ND
HEXACHLOROBUTADIENE	87-68-3	2.00	ND	21.3	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:

MAC
9/9/14

K PRIME, INC.
LABORATORY REPORT

K PRIME PROJECT: 9115
CLIENT PROJECT: B20019.15

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

SAMPLE ID: H3-SG-26
LAB NO: 124787
SAMPLE TYPE: AIR
DATE SAMPLED: 09/02/2014
TIME SAMPLED: 13:50
BATCH ID: 090414A1
DATE ANALYZED: 09/05/2014

COMPOUND NAME	CAS NO.	PPB (V/V)		µg/cu. m	
		MRL	SAMPLE CONC	MRL	SAMPLE CONC
DICHLORODIFLUOROMETHANE	75-71-8	2.00	ND	9.89	ND
DICHLOROTETRAFLUOROETHANE	76-14-2	2.00	ND	14.0	ND
CHLOROMETHANE	74-87-3	2.00	ND	4.13	ND
VINYL CHLORIDE	75-01-4	2.00	ND	5.11	ND
BROMOMETHANE	74-83-9	2.00	ND	7.77	ND
CHLOROETHANE	75-00-3	2.00	ND	5.28	ND
TRICHLOROFLUOROMETHANE	75-69-4	2.00	ND	11.2	ND
1,1-DICHLOROETHENE	75-35-4	2.00	ND	7.93	ND
TRICHLOROTRIFLUOROETHANE	76-13-1	2.00	4.29	15.3	32.9
METHYLENE CHLORIDE	75-09-2	2.00	ND	6.95	ND
TRANS-1,2-DICHLOROETHENE	156-60-5	2.00	ND	7.93	ND
1,1-DICHLOROETHANE	75-34-3	2.00	ND	8.10	ND
CIS-1,2-DICHLOROETHENE	156-59-2	2.00	ND	7.93	ND
CHLOROFORM	67-66-3	2.00	ND	9.77	ND
1,1,1-TRICHLOROETHANE	71-55-6	2.00	9.09	10.9	49.6
CARBON TETRACHLORIDE	56-23-5	2.00	ND	12.6	ND
1,2-DICHLOROETHANE	107-06-2	2.00	ND	8.09	ND
BENZENE	71-43-2	2.00	ND	6.39	ND
TRICHLOROETHENE	79-01-6	2.00	235	10.7	1260
1,2-DICHLOROPROPANE	78-87-5	2.00	ND	9.24	ND
TRANS-1,3-DICHLOROPROPENE	10061-02-6	2.00	ND	9.08	ND
TOLUENE	108-88-3	2.00	6.07	7.54	22.9
CIS-1,3-DICHLOROPROPENE	10061-01-5	2.00	ND	9.08	ND
1,1,2-TRICHLOROETHANE	79-00-5	2.00	ND	10.9	ND
TETRACHLOROETHENE	127-18-4	2.00	123	13.6	832
1,2-DIBROMOETHANE	106-93-4	2.00	ND	15.4	ND
CHLOROBENZENE	108-90-7	2.00	ND	9.21	ND
ETHYLBENZENE	100-41-4	2.00	ND	8.68	ND
XYLENE (M+P)	1330-20-7	2.00	ND	8.68	ND
XYLENE (O)	95-47-6	2.00	ND	8.68	ND
STYRENE	100-42-5	2.00	ND	8.52	ND
1,1,2,2-TETRACHLOROETHANE	79-34-5	2.00	ND	13.7	ND
1,3,5-TRIMETHYLBENZENE	108-67-8	2.00	ND	9.83	ND
1,2,4-TRIMETHYLBENZENE	95-63-6	2.00	ND	9.83	ND
1,3-DICHLOROBENZENE	541-73-1	2.00	ND	12.0	ND
1,4-DICHLOROBENZENE	106-46-7	2.00	ND	12.0	ND
1,2-DICHLOROBENZENE	95-50-1	2.00	ND	12.0	ND
1,2,4-TRICHLOROBENZENE	120-82-1	4.00	ND	29.7	ND
HEXACHLOROBUTADIENE	87-68-3	2.00	ND	21.3	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: KATC
DATE: 9/19/14

K PRIME, INC.
LABORATORY REPORT

K PRIME PROJECT: 9115
CLIENT PROJECT: B20019.15

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

SAMPLE ID: H3-SG-28
LAB NO: 124791
SAMPLE TYPE: AIR
DATE SAMPLED: 09/02/2014
TIME SAMPLED: 15:17
BATCH ID: 090514A1
DATE ANALYZED: 09/05/2014

COMPOUND NAME	CAS NO.	PPB (V/V)		µg/cu. m	
		MRL	SAMPLE CONC	MRL	SAMPLE CONC
DICHLORODIFLUOROMETHANE	75-71-8	2.50	ND	12.4	ND
DICHLOROTETRAFLUOROETHANE	76-14-2	2.50	ND	17.5	ND
CHLOROMETHANE	74-87-3	2.50	ND	5.16	ND
VINYL CHLORIDE	75-01-4	2.50	ND	6.39	ND
BROMOMETHANE	74-83-9	2.50	ND	9.71	ND
CHLOROETHANE	75-00-3	2.50	ND	6.60	ND
TRICHLOROFLUOROMETHANE	75-69-4	2.50	ND	14.0	ND
1,1-DICHLOROETHENE	75-35-4	2.50	ND	9.91	ND
TRICHLOROTRIFLUOROETHANE	76-13-1	2.50	6.36	19.2	48.7
METHYLENE CHLORIDE	75-09-2	2.50	ND	8.68	ND
TRANS-1,2-DICHLOROETHENE	156-60-5	2.50	ND	9.91	ND
1,1-DICHLOROETHANE	75-34-3	2.50	ND	10.1	ND
CIS-1,2-DICHLOROETHENE	156-59-2	2.50	ND	9.91	ND
CHLOROFORM	67-66-3	2.50	ND	12.2	ND
1,1,1-TRICHLOROETHANE	71-55-6	2.50	14.3	13.6	77.9
CARBON TETRACHLORIDE	56-23-5	2.50	ND	15.7	ND
1,2-DICHLOROETHANE	107-06-2	2.50	ND	10.1	ND
BENZENE	71-43-2	2.50	ND	7.99	ND
TRICHLOROETHENE	79-01-6	2.50	54.8	13.4	294
1,2-DICHLOROPROPANE	78-87-5	2.50	ND	11.6	ND
TRANS-1,3-DICHLOROPROPENE	10061-02-6	2.50	ND	11.3	ND
TOLUENE	108-88-3	2.50	ND	9.42	ND
CIS-1,3-DICHLOROPROPENE	10061-01-5	2.50	ND	11.3	ND
1,1,2-TRICHLOROETHANE	79-00-5	2.50	ND	13.6	ND
TETRACHLOROETHENE	127-18-4	2.50	264	17.0	1790
1,2-DIBROMOETHANE	106-93-4	2.50	ND	19.2	ND
CHLOROBENZENE	108-90-7	2.50	ND	11.5	ND
ETHYLBENZENE	100-41-4	2.50	ND	10.9	ND
XYLENE (M+P)	1330-20-7	2.50	ND	10.9	ND
XYLENE (O)	95-47-6	2.50	ND	10.9	ND
STYRENE	100-42-5	2.50	ND	10.6	ND
1,1,2,2-TETRACHLOROETHANE	79-34-5	2.50	ND	17.2	ND
1,3,5-TRIMETHYLBENZENE	108-67-8	2.50	ND	12.3	ND
1,2,4-TRIMETHYLBENZENE	95-63-6	2.50	3.73	12.3	18.3
1,3-DICHLOROBENZENE	541-73-1	2.50	ND	15.0	ND
1,4-DICHLOROBENZENE	106-46-7	2.50	ND	15.0	ND
1,2-DICHLOROBENZENE	95-50-1	2.50	ND	15.0	ND
1,2,4-TRICHLOROBENZENE	120-82-1	5.00	ND	37.1	ND
HEXACHLOROBUTADIENE	87-68-3	2.50	ND	26.7	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:

BMK
9/9/14

K PRIME, INC.
LABORATORY REPORT

K PRIME PROJECT: 9115
CLIENT PROJECT: B20019.15

METHOD: 1,1,1,2-TETRAFLUOROETHANE
REFERENCE: EPA TO 3

UNITS: PPMV

SAMPLE ID	LAB NO.	SAMPLE TYPE	DATE SAMPLED	BATCH ID	DATE ANALYZED	MRL	SAMPLE CONC
H3-SG-12	124756	AIR	09/02/2014	090314A1	09/03/2014	10.0	ND
H3-SG-09	124757	AIR	09/02/2014	090314A1	09/03/2014	10.0	ND
H3-SG-06	124758	AIR	09/02/2014	090314A1	09/03/2014	10.0	ND
H3-SG-03	124759	AIR	09/02/2014	090314A1	09/03/2014	10.0	ND
H3-SG-03DUPE	124760	AIR	09/02/2014	090314A1	09/03/2014	10.0	14.0
H3-SG-02	124761	AIR	09/02/2014	090314A1	09/03/2014	10.0	ND
H3-SG-30	124762	AIR	09/02/2014	090314A1	09/03/2014	10.0	ND
H3-SG-14	124763	AIR	09/02/2014	090314A1	09/03/2014	10.0	ND
H3-SG-13	124764	AIR	09/02/2014	090314A1	09/03/2014	10.0	ND
H3-SG-07	124765	AIR	09/02/2014	090314A1	09/03/2014	10.0	ND
H3-SG-39	124766	AIR	09/02/2014	090314A1	09/03/2014	10.0	ND
H3-SG-37	124767	AIR	09/02/2014	090314A1	09/03/2014	10.0	ND
H3-SG-40	124768	AIR	09/02/2014	090314A1	09/03/2014	10.0	ND
H3-SG-33	124769	AIR	09/02/2014	090314A1	09/03/2014	10.0	ND
H3-SG-34	124770	AIR	09/02/2014	090314A1	09/03/2014	10.0	35.1
H3-SG-32	124771	AIR	09/02/2014	090314A1	09/03/2014	10.0	ND
H3-SG-11	124772	AIR	09/02/2014	090314A1	09/03/2014	10.0	ND
H3-SG-08	124773	AIR	09/02/2014	090314A1	09/03/2014	10.0	ND
H3-SG-08DUPE	124774	AIR	09/02/2014	090314A1	09/03/2014	10.0	ND
H3-SG-04	124775	AIR	09/02/2014	090314A1	09/03/2014	10.0	ND

NOTES:

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

APPROVED BY:
 DATE: 9/19/14

K PRIME, INC.
LABORATORY METHOD BLANK REPORT

METHOD BLANK ID: B090214A1
SAMPLE TYPE: AIR

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

BATCH ID: 090214A1
DATE ANALYZED: 09/02/2014

COMPOUND NAME	CAS NO.	PPB (V/V)		µg/cu. m	
		MRL	SAMPLE CONC	MRL	SAMPLE CONC
DICHLORODIFLUOROMETHANE	75-71-8	0.500	ND	2.47	ND
DICHLOROTETRAFLUOROETHANE	76-14-2	0.500	ND	3.50	ND
CHLOROMETHANE	74-87-3	0.500	ND	1.03	ND
VINYL CHLORIDE	75-01-4	0.500	ND	1.28	ND
BROMOMETHANE	74-83-9	0.500	ND	1.94	ND
CHLOROETHANE	75-00-3	0.500	ND	1.32	ND
TRICHLOROFUOROMETHANE	75-69-4	0.500	ND	2.81	ND
1,1-DICHLOROETHENE	75-35-4	0.500	ND	1.98	ND
TRICHLOROTRIFLUOROETHANE	76-13-1	0.500	ND	3.83	ND
METHYLENE CHLORIDE	75-09-2	0.500	ND	1.74	ND
TRANS-1,2-DICHLOROETHENE	156-60-5	0.500	ND	1.98	ND
1,1-DICHLOROETHANE	75-34-3	0.500	ND	2.02	ND
CIS-1,2-DICHLOROETHENE	156-59-2	0.500	ND	1.98	ND
CHLOROFORM	67-66-3	0.500	ND	2.44	ND
1,1,1-TRICHLOROETHANE	71-55-6	0.500	ND	2.73	ND
CARBON TETRACHLORIDE	56-23-5	0.500	ND	3.15	ND
1,2-DICHLOROETHANE	107-06-2	0.500	ND	2.02	ND
BENZENE	71-43-2	0.500	ND	1.60	ND
TRICHLOROETHENE	79-01-6	0.500	ND	2.69	ND
1,2-DICHLOROPROPANE	78-87-5	0.500	ND	2.31	ND
TRANS-1,3-DICHLOROPROPENE	10061-02-6	0.500	ND	2.27	ND
TOLUENE	108-88-3	0.500	ND	1.88	ND
CIS-1,3-DICHLOROPROPENE	10061-01-5	0.500	ND	2.27	ND
1,1,2-TRICHLOROETHANE	79-00-5	0.500	ND	2.73	ND
TETRACHLOROETHENE	127-18-4	0.500	ND	3.39	ND
1,2-DIBROMOETHANE	106-93-4	0.500	ND	3.84	ND
CHLOROBENZENE	108-90-7	0.500	ND	2.30	ND
ETHYLBENZENE	100-41-4	0.500	ND	2.17	ND
XYLENE (M+P)	1330-20-7	0.500	ND	2.17	ND
XYLENE (O)	95-47-6	0.500	ND	2.17	ND
STYRENE	100-42-5	0.500	ND	2.13	ND
1,1,2,2-TETRACHLOROETHANE	79-34-5	0.500	ND	3.43	ND
1,3,5-TRIMETHYLBENZENE	108-67-8	0.500	ND	2.46	ND
1,2,4-TRIMETHYLBENZENE	95-63-6	0.500	ND	2.46	ND
1,3-DICHLOROBENZENE	541-73-1	0.500	ND	3.01	ND
1,4-DICHLOROBENZENE	106-46-7	0.500	ND	3.01	ND
1,2-DICHLOROBENZENE	95-50-1	0.500	ND	3.01	ND
1,2,4-TRICHLOROBENZENE	120-82-1	0.500	ND	3.71	ND
HEXACHLOROBUTADIENE	87-68-3	0.500	ND	5.33	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: L090214A1
 LAB CONTROL DUPLICATE ID: D090214A1

SAMPLE TYPE: AIR
 BATCH ID: 090214A1
 DATE ANALYZED: 09/02/2014

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

COMPOUND NAME	SPIKE ADDED (PPB)	REPORTING LIMIT (PPB)	SAMPLE CONC (PPB)	SPIKE CONC (PPB)	SPIKE REC (%)	REC LIMITS (%)
1,1-DICHLOROETHENE	10.0	0.500	ND	11.3	113	60 - 140
TRICHLOROETHENE	10.0	0.500	ND	12.7	127	60 - 140
BENZENE	10.0	0.500	ND	11.3	113	60 - 140
TOLUENE	10.0	0.500	ND	13.4	134	60 - 140
TETRACHLOROETHENE	10.0	0.500	ND	13.0	130	60 - 140

COMPOUND NAME	SPIKE ADDED (PPB)	SPIKE DUP CONC (PPB)	SPIKE DUP REC (%)	RPD (%)	QC LIMITS RPD (%)	REC (%)
1,1-DICHLOROETHENE	10.0	10.2	102	10.1	25	60 - 140
TRICHLOROETHENE	10.0	11.6	116	8.7	25	60 - 140
BENZENE	10.0	10.5	105	7.9	25	60 - 140
TOLUENE	10.0	12.3	123	9.0	25	60 - 140
TETRACHLOROETHENE	10.0	12.0	120	7.7	25	60 - 140

NOTES:

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

K PRIME, INC.
LABORATORY METHOD BLANK REPORT

METHOD BLANK ID: B090414A1
SAMPLE TYPE: AIR

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

BATCH ID: 090414A1
DATE ANALYZED: 09/04/2014

COMPOUND NAME	CAS NO.	PPB (V/V)		µg/cu. m	
		MRL	SAMPLE CONC	MRL	SAMPLE CONC
DICHLORODIFLUOROMETHANE	75-71-8	0.500	ND	2.47	ND
DICHLOROTETRAFLUOROETHANE	76-14-2	0.500	ND	3.50	ND
CHLOROMETHANE	74-87-3	0.500	ND	1.03	ND
VINYL CHLORIDE	75-01-4	0.500	ND	1.28	ND
BROMOMETHANE	74-83-9	0.500	ND	1.94	ND
CHLOROETHANE	75-00-3	0.500	ND	1.32	ND
TRICHLOROFLUOROMETHANE	75-69-4	0.500	ND	2.81	ND
1,1-DICHLOROETHENE	75-35-4	0.500	ND	1.98	ND
TRICHLOROTRIFLUOROETHANE	76-13-1	0.500	ND	3.83	ND
METHYLENE CHLORIDE	75-09-2	0.500	ND	1.74	ND
TRANS-1,2-DICHLOROETHENE	156-60-5	0.500	ND	1.98	ND
1,1-DICHLOROETHANE	75-34-3	0.500	ND	2.02	ND
CIS-1,2-DICHLOROETHENE	156-59-2	0.500	ND	1.98	ND
CHLOROFORM	67-66-3	0.500	ND	2.44	ND
1,1,1-TRICHLOROETHANE	71-55-6	0.500	ND	2.73	ND
CARBON TETRACHLORIDE	56-23-5	0.500	ND	3.15	ND
1,2-DICHLOROETHANE	107-06-2	0.500	ND	2.02	ND
BENZENE	71-43-2	0.500	ND	1.60	ND
TRICHLOROETHENE	79-01-6	0.500	ND	2.69	ND
1,2-DICHLOROPROPANE	78-87-5	0.500	ND	2.31	ND
TRANS-1,3-DICHLOROPROPENE	10061-02-6	0.500	ND	2.27	ND
TOLUENE	108-88-3	0.500	ND	1.88	ND
CIS-1,3-DICHLOROPROPENE	10061-01-5	0.500	ND	2.27	ND
1,1,2-TRICHLOROETHANE	79-00-5	0.500	ND	2.73	ND
TETRACHLOROETHENE	127-18-4	0.500	ND	3.39	ND
1,2-DIBROMOETHANE	106-93-4	0.500	ND	3.84	ND
CHLOROBENZENE	108-90-7	0.500	ND	2.30	ND
ETHYLBENZENE	100-41-4	0.500	ND	2.17	ND
XYLENE (M+P)	1330-20-7	0.500	ND	2.17	ND
XYLENE (O)	95-47-6	0.500	ND	2.17	ND
STYRENE	100-42-5	0.500	ND	2.13	ND
1,1,2,2-TETRACHLOROETHANE	79-34-5	0.500	ND	3.43	ND
1,3,5-TRIMETHYLBENZENE	108-67-8	0.500	ND	2.46	ND
1,2,4-TRIMETHYLBENZENE	95-63-6	0.500	ND	2.46	ND
1,3-DICHLOROBENZENE	541-73-1	0.500	ND	3.01	ND
1,4-DICHLOROBENZENE	106-46-7	0.500	ND	3.01	ND
1,2-DICHLOROBENZENE	95-50-1	0.500	ND	3.01	ND
1,2,4-TRICHLOROBENZENE	120-82-1	0.500	ND	3.71	ND
HEXACHLOROBUTADIENE	87-68-3	0.500	ND	5.33	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: L090414A1
 LAB CONTROL DUPLICATE ID: D090414A1

SAMPLE TYPE: AIR
 BATCH ID: 090414A1
 DATE ANALYZED: 09/04/2014

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

COMPOUND NAME	SPIKE ADDED (PPB)	REPORTING LIMIT (PPB)	SAMPLE CONC (PPB)	SPIKE CONC (PPB)	SPIKE REC (%)	REC LIMITS (%)
1,1-DICHLOROETHENE	10.0	0.500	ND	9.02	90	60 - 140
TRICHLOROETHENE	10.0	0.500	ND	10.3	103	60 - 140
BENZENE	10.0	0.500	ND	9.89	99	60 - 140
TOLUENE	10.0	0.500	ND	11.2	112	60 - 140
TETRACHLOROETHENE	10.0	0.500	ND	10.3	103	60 - 140

COMPOUND NAME	SPIKE ADDED (PPB)	SPIKE DUP CONC (PPB)	SPIKE DUP REC (%)	RPD (%)	RPD (%)	QC LIMITS REC (%)
1,1-DICHLOROETHENE	10.0	10.2	102	12.2	25	60 - 140
TRICHLOROETHENE	10.0	11.2	112	8.9	25	60 - 140
BENZENE	10.0	11.0	110	10.4	25	60 - 140
TOLUENE	10.0	12.5	125	11.3	25	60 - 140
TETRACHLOROETHENE	10.0	11.4	114	9.8	25	60 - 140

NOTES:

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

K PRIME, INC.
LABORATORY METHOD BLANK REPORT

METHOD BLANK ID: B090514A1
SAMPLE TYPE: AIR

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

BATCH ID: 090514A1
DATE ANALYZED: 09/05/2014

COMPOUND NAME	CAS NO.	PPB (V/V)		µg/cu. m	
		MRL	SAMPLE CONC	MRL	SAMPLE CONC
DICHLORODIFLUOROMETHANE	75-71-8	0.500	ND	2.47	ND
DICHLOROTETRAFLUOROETHANE	76-14-2	0.500	ND	3.50	ND
CHLOROMETHANE	74-87-3	0.500	ND	1.03	ND
VINYL CHLORIDE	75-01-4	0.500	ND	1.28	ND
BROMOMETHANE	74-83-9	0.500	ND	1.94	ND
CHLOROETHANE	75-00-3	0.500	ND	1.32	ND
TRICHLOROFUOROMETHANE	75-69-4	0.500	ND	2.81	ND
1,1-DICHLOROETHENE	75-35-4	0.500	ND	1.98	ND
TRICHLOROTRIFLUOROETHANE	76-13-1	0.500	ND	3.83	ND
METHYLENE CHLORIDE	75-09-2	0.500	ND	1.74	ND
TRANS-1,2-DICHLOROETHENE	156-60-5	0.500	ND	1.98	ND
1,1-DICHLOROETHANE	75-34-3	0.500	ND	2.02	ND
CIS-1,2-DICHLOROETHENE	156-59-2	0.500	ND	1.98	ND
CHLOROFORM	67-66-3	0.500	ND	2.44	ND
1,1,1-TRICHLOROETHANE	71-55-6	0.500	ND	2.73	ND
CARBON TETRACHLORIDE	56-23-5	0.500	ND	3.15	ND
1,2-DICHLOROETHANE	107-06-2	0.500	ND	2.02	ND
BENZENE	71-43-2	0.500	ND	1.60	ND
TRICHLOROETHENE	79-01-6	0.500	ND	2.69	ND
1,2-DICHLOROPROPANE	78-87-5	0.500	ND	2.31	ND
TRANS-1,3-DICHLOROPROPENE	10061-02-6	0.500	ND	2.27	ND
TOLUENE	108-88-3	0.500	ND	1.88	ND
CIS-1,3-DICHLOROPROPENE	10061-01-5	0.500	ND	2.27	ND
1,1,2-TRICHLOROETHANE	79-00-5	0.500	ND	2.73	ND
TETRACHLOROETHENE	127-18-4	0.500	ND	3.39	ND
1,2-DIBROMOETHANE	106-93-4	0.500	ND	3.84	ND
CHLOROBENZENE	108-90-7	0.500	ND	2.30	ND
ETHYLBENZENE	100-41-4	0.500	ND	2.17	ND
XYLENE (M+P)	1330-20-7	0.500	ND	2.17	ND
XYLENE (O)	95-47-6	0.500	ND	2.17	ND
STYRENE	100-42-5	0.500	ND	2.13	ND
1,1,2,2-TETRACHLOROETHANE	79-34-5	0.500	ND	3.43	ND
1,3,5-TRIMETHYLBENZENE	108-67-8	0.500	ND	2.46	ND
1,2,4-TRIMETHYLBENZENE	95-63-6	0.500	ND	2.46	ND
1,3-DICHLOROBENZENE	541-73-1	0.500	ND	3.01	ND
1,4-DICHLOROBENZENE	106-46-7	0.500	ND	3.01	ND
1,2-DICHLOROBENZENE	95-50-1	0.500	ND	3.01	ND
1,2,4-TRICHLOROBENZENE	120-82-1	0.500	ND	3.71	ND
HEXACHLOROBTADIENE	87-68-3	0.500	ND	5.33	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: L090514A1
 LAB CONTROL DUPLICATE ID: D090514A1

SAMPLE TYPE: AIR
 BATCH ID: 090514A1
 DATE ANALYZED: 09/05/2014

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

COMPOUND NAME	SPIKE ADDED (PPB)	REPORTING LIMIT (PPB)	SAMPLE CONC (PPB)	SPIKE CONC (PPB)	SPIKE REC (%)	REC LIMITS (%)
1,1-DICHLOROETHENE	10.0	0.500	ND	8.43	84	60 - 140
TRICHLOROETHENE	10.0	0.500	ND	9.95	100	60 - 140
BENZENE	10.0	0.500	ND	9.74	97	60 - 140
TOLUENE	10.0	0.500	ND	10.9	109	60 - 140
TETRACHLOROETHENE	10.0	0.500	ND	10.0	100	60 - 140

COMPOUND NAME	SPIKE ADDED (PPB)	SPIKE DUP CONC (PPB)	SPIKE DUP REC (%)	RPD (%)	RPD (%)	QC LIMITS REC (%)
1,1-DICHLOROETHENE	10.0	8.96	90	6.1	25	60 - 140
TRICHLOROETHENE	10.0	9.96	100	0.1	25	60 - 140
BENZENE	10.0	9.74	97	0.0	25	60 - 140
TOLUENE	10.0	10.8	108	0.5	25	60 - 140
TETRACHLOROETHENE	10.0	9.88	99	1.2	25	60 - 140

NOTES:

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

K PRIME, INC.
LABORATORY QC REPORT

METHOD BLANK ID: B090314A1
LAB CONTROL SAMPLE ID: L090314A1
LAB CONTROL DUPLICATE ID: D090314A1
BATCH ID: 090314A1

METHOD: 1,1,1,2-TETRAFLUOROETHANE
REFERENCE: EPA TO 3

SAMPLE TYPE: AIR
UNITS: PPM -V/V

METHOD BLANK

COMPOUND NAME	REPORTING LIMIT	SAMPLE CONC
1,1,1,2-TETRAFLUOROETHANE	10.0	ND

ACCURACY (LAB CONTROL SAMPLE)

COMPOUND NAME	EXPECTED CONC	MEASURED CONC	PERCENT RECOVERY	LIMITS (PERCENT)
1,1,1,2-TETRAFLUOROETHANE	10000	9120	91	60-140

PRECISION (LAB CONTROL DUPLICATE)

COMPOUND NAME	SAMPLE RESULT	DUPLICATE RESULT	RPD (PERCENT)	LIMITS (PERCENT)
1,1,1,2-TETRAFLUOROETHANE	9120	9450	3.6	±30

NOTES:

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

K PRIME, INC.
LABORATORY QC REPORT

METHOD BLANK ID: B090414A1
LAB CONTROL SAMPLE ID: L090414A1
LAB CONTROL DUPLICATE ID: D090414A1
BATCH ID: 090414A1

METHOD: 1,1,1,2-TETRAFLUOROETHANE
REFERENCE: EPA TO 3

SAMPLE TYPE: AIR
UNITS: PPM -V/V

METHOD BLANK

COMPOUND NAME	REPORTING LIMIT	SAMPLE CONC
1,1,1,2-TETRAFLUOROETHANE	10.0	ND

ACCURACY (LAB CONTROL SAMPLE)

COMPOUND NAME	EXPECTED CONC	MEASURED CONC	PERCENT RECOVERY	LIMITS (PERCENT)
1,1,1,2-TETRAFLUOROETHANE	10000	9460	95	60-140

PRECISION (LAB CONTROL DUPLICATE)

COMPOUND NAME	SAMPLE RESULT	DUPLICATE RESULT	RPD (PERCENT)	LIMITS (PERCENT)
1,1,1,2-TETRAFLUOROETHANE	9460	8450	11.3	±30

NOTES:

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

CHAIN OF CUSTODY RECORD

CONSULTING ENGINEERS AND SCIENTISTS

1870 Ogden Drive, Burlingame CA 94010

PHONE: 650-292-9100

FAX: 650-552-9012

Project Name: MFA Hangar 2 and 3						Project No.: B20019.15						ANALYSES REQUESTED						EKI COC No.:																																																													
Location: Moffett Field						Sampled By: R Lion, J Sutter, B Castle						<table border="1"> <tr> <td>EPA TO 3</td> <td></td> </tr> <tr> <td>EPA TO 15</td> <td></td> </tr> <tr> <td>VOCs</td> <td></td> </tr> </table>						EPA TO 3																				EPA TO 15																				VOCs																				Revision: _____ (A, B, C, D, etc.)	
EPA TO 3																																																																															
EPA TO 15																																																																															
VOCs																																																																															
Reporting: Electronic Format: None Hard Copy Format: PDF EPA Data Report Level: II Reporting Basis: As Rec'd Please report results to the following: (1) EKI: labs@ekiconsult.com (2) mking@ekiconsult.com (3) smiller@ekiconsult.com bcastle@ekiconsult.com (4) kgruebel@ekiconsult.com						Laboratory: K Prime, Inc. 3621 Westwind Blvd Santa Rosa, CA 95403 (707) 527-7574												Date: _____ By: _____																																																													
Field Sample Identification		Lab Sample No.	Date	Time	Matrix	Number / Type of Container (Preservative)				Method No.	Analyte Group	PLACE ON HOLD	EXPECTED TURNAROUND TIME		REMARKS / SUMMA ID																																																																
H3-SG-12		124756	9/2/14	828	Air	1-liter Summa				X	X		5-day	S-101																																																																	
H3-SG-09		124757		857						X	X			S-293																																																																	
H3-SG-06		124758		927						X	X			S-655																																																																	
H3-SG-03		124759		956						X	X			SS-917																																																																	
H3-SG-03 Dup		124760		1010						X	X			SS-916																																																																	
H3-SG-02		124761		1052						X	X			SS-919																																																																	
H3-SG-30		124762		1205						X	X			SS-922 S-432																																																																	
H3-SG-14		124763		828 815						X	X			S-236																																																																	
H3-SG-13		124764		833						X	X			S-230																																																																	
H3-SG-07		124765		0905						X	X			SS-927																																																																	
Special Instructions:																																																																															
Relinquished by: <i>Brian Castle</i> (Signature/Affiliation)						Date: 9/2/14		Time: 1620		Received by: <i>[Signature]</i> (Signature/Affiliation or Carrier/Air Bill No.)																																																																					
Relinquished by: <i>[Signature]</i> (Signature/Affiliation)						Date: 9-2-14		Time: 1846		Received by: <i>Kenneth E. Amelle</i> (Signature/Affiliation) 9-2-14 1846																																																																					
Relinquished by: _____ (Signature/Affiliation)						Date: _____		Time: _____		Received by: _____ (Signature/Affiliation)																																																																					

CHAIN OF CUSTODY RECORD

CONSULTING ENGINEERS AND SCIENTISTS

1870 Ogden Drive, Burlingame CA 94010

PHONE: 650-292-9100

FAX: 650-552-9012

Project Name: MFA Hangar 2 and 3		Project No.: B20019.15		ANALYSES REQUESTED				EKI COC No.:			
Location: Moffett Field		Sampled By: R Lion, J Sutter, B Castle		Method No.	EPA TO 15	EPA TO 3	1,1,1,2-Tetrafluoroethane	VOCs	PLACE ON HOLD	Revision: _____ (A, B, C, D, etc.)	
Reporting: Electronic Format: None Hard Copy Format: PDF EPA Data Report Level: II Reporting Basis: As Rec'd Please report results to the following: (1) EKI: labs@ekiconsult.com (2) mkking@ekiconsult.com (3) smiller@ekiconsult.com bcastle@ekiconsult.com (4) kgruebel@ekiconsult.com		Laboratory: K Prime, Inc. 3621 Westwind Blvd Santa Rosa, CA 95403 (707) 527-7574								Date: _____ By: _____	
Field Sample Identification		Lab Sample No.	Date	Time	Matrix	Number / Type of Container (Preservative)		EXPECTED TURNAROUND TIME	REMARKS / SUMMA ID		
H3-SG-39		124766	9/2/14	12:00	Air	1-liter Summa		5-day	S-350		
H3-SG-37		124767		12:03					S-600		
H3-SG-40		124768		12:06					S-358		
H3-SG-33		124769		11:59					S-716		
H3-SG-34		124770		12:01					S-435		
H3-SG-32		124771		11:57					S-352		
H3-SG-11		124772		8:42					SS-926		
H3-SG-08		124773		9:15					S-299		
H3-SG-08 Dup		124774		9:23					S-264		
H3-SG-04		124775		9:57					SS924		
Special Instructions:											
Relinquished by: _____ (Signature/Affiliation)		Date: 9/2/14	Time: 16:20	Received by: _____ (Signature/Affiliation or Carrier/Air Bill No.)		Date: 9/2/14		Time: 4:20			
Relinquished by: _____ (Signature/Affiliation)		Date: 9-2-14	Time: 18:46	Received by: _____ (Signature/Affiliation)		Date: 9-2-14		Time: 18:46			
Relinquished by: _____ (Signature/Affiliation)		Date:	Time:	Received by: _____ (Signature/Affiliation)		Date:		Time:			

CHAIN OF CUSTODY RECORD

CONSULTING ENGINEERS AND SCIENTISTS

1870 Ogden Drive, Burlingame CA 94010

PHONE: 650-292-9100

FAX: 650-552-9012

Project Name: MFA Hangar 2 and 3		Project No.: B20019.15		ANALYSES REQUESTED					EKI COC No.:				
Location: Moffett Field		Sampled By: R Lion, J Sutter, B Castle		Method No. EPA TO 15	Analyte Group EPA TO 3 1,1,1,2-Tetrafluoroethane VOCs						Revision: _____ (A, B, C, D, etc.)		
Reporting: Electronic Format: None Hard Copy Format: PDF EPA Data Report Level: II Reporting Basis: As Rec'd Please report results to the following: (1) EKI: labs@ekiconsult.com (2) mkking@ekiconsult.com (3) smiller@ekiconsult.com bcastle@ekiconsult.com (4) kgruebel@ekiconsult.com		Laboratory: K Prime, Inc. 3621 Westwind Blvd Santa Rosa, CA 95403 (707) 527-7574									Date: _____ By: _____		
Field Sample Identification	Lab Sample No.	Date	Time	Matrix	Number / Type of Container (Preservative)	PLACE ON HOLD					EXPECTED TURNAROUND TIME	REMARKS / SUMMA ID	
H3-SG-38	124776	9/2/14	1105	Air	1-liter Summa	X	X					5-day	S-515
H3-SG-36	124777		1104			X	X						S-237
H3-SG-35	124778		1102			X	X				S-357		
H3-SG-36 Dup	124779		1120			X	X				SS-921		
H3-SG-31	124780		1158			X	X				SS-912		
H3-SG-23	124781		1350			X	X				SS-920		
H3-SG-22	124782		1347			X	X				SS-913		
H3-SG-22 Dup	124783		1356			X	X				S-354		
H3-SG-21	124784		1430			X	X				S-657		
H3-SG-27	124785		1301			X	X				S-715		
Special Instructions:													
Relinquished by: <i>Brian Castle</i> (Signature/Affiliation)		Date: 9/2/14	Time: 1620	Received by: <i>Kenzie (VTC)</i> (Signature/Affiliation or Carrier/Air Bill No.)		Date: 9/2/14		Time: 4:20					
Relinquished by: <i>Kenzie (VTC)</i> (Signature/Affiliation)		Date: 9-2-14	Time: 18:46	Received by: <i>Kenneth E. Ankle</i> (Signature/Affiliation)		Date: 9-2-14		Time: 18:46					
Relinquished by: _____ (Signature/Affiliation)		Date: _____	Time: _____	Received by: _____ (Signature/Affiliation)		Date: _____		Time: _____					

CHAIN OF CUSTODY RECORD

CONSULTING ENGINEERS AND SCIENTISTS

1870 Ogden Drive, Burlingame CA 94010

PHONE: 650-292-9100

FAX: 650-552-9012

Project Name: MFA Hangar 2 and 3		Project No.: B20019.15		ANALYSES REQUESTED								EKI COC No.:					
Location: Moffett Field		Sampled By: R Lion, J Sutter, B Castle		Method No. EPA TO 15	Analyte Group VOCs	EPA TO 3 1,1,1,2-Tetrafluoroethane									Revision: _____ (A, B, C, D, etc.)		
Reporting: Electronic Format: None Hard Copy Format: PDF EPA Data Report Level: II Reporting Basis: As Rec'd Please report results to the following: <u>No EDF</u> (1) EKI: labs@ekiconsult.com (2) mkking@ekiconsult.com (3) smiller@ekiconsult.com bcastle@ekiconsult.com (4) kgruebel@ekiconsult.com		Laboratory: K Prime, Inc. 3621 Westwind Blvd Santa Rosa, CA 95403 (707) 527-7574													Date: _____ By: _____		
Field Sample Identification	Lab Sample No.	Date	Time	Matrix	Number / Type of Container (Preservative)	PLACE ON HOLD								EXPECTED TURNAROUND TIME	REMARKS / SUMMA ID		
H3-SG-25	124786	9/2/14	1347	Air	1-liter Summa	X	X									5-day	S-355
H3-SG-26	124787		1350			X	X										S-650
H3-SG-24	124788		1352			X	X										S-291
H3-SG-20	124789		1429			X	X										S-719
H3-SG-29	124790		1456			X	X										S-290
H3-SG-28	124791		1517			X	X										S-430
Special Instructions:																	
Relinquished by: _____ (Signature/Affiliation) <i>Bryan Castle</i>		Date: 9/2/14	Time: 16:20	Received by: _____ (Signature/Affiliation or Carrier/Air Bill No.) <i>Victor (VIC) 9/2/14</i>													
Relinquished by: _____ (Signature/Affiliation) <i>Enzo (VIC)</i>		Date: 9-2-14	Time: 18:46	Received by: _____ (Signature/Affiliation) <i>Kenneth E. Quella 9-2-14</i>													
Relinquished by: _____ (Signature/Affiliation)		Date:	Time:	Received by: _____ (Signature/Affiliation)													

K PRIME, Inc.

CONSULTING ANALYTICAL CHEMISTS

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

TRANSMITTAL

DATE: 9/9/2014

TO: MS. MICHELLE KING
MR. STEVE MILLER
MS. KAREN GRUEBEL
ERLER & KALINOWSKI, INC.
1870 OGDEN DRIVE
BURLINGAME, CA 94010

ACCT: 9115
PROJ: B20019.15

Phone: 650-292-9100
Fax: 650-552-9012
Email: labs@ekiconsult.com
mking@ekiconsult.com
smiller@ekiconsult.com
kgruebel@ekiconsult.com

FROM: Richard A. Kagei, Ph.D. *RAM 9/9/2014*
Laboratory Director

SUBJECT: LABORATORY RESULTS FOR YOUR PROJECT B20019.15

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

SAMPLE ID	TYPE	DATE	TIME	KPI LAB #
H3-SHROUD-SG-12	AIR	9/2/2014	8:28	124792
H3-SHROUD-SG-06	AIR	9/2/2014	9:27	124793
H3-SHROUD-SG-02	AIR	9/2/2014	10:32	124794
H3-SHROUD-SG-20	AIR	9/2/2014	14:56	124795

The above listed sample group was received on 9/2/2014 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: 9115
CLIENT PROJECT: B20019.15

METHOD: 1,1,1,2-TETRAFLUOROETHANE
REFERENCE: EPA TO 3

UNITS: PPMV

SAMPLE ID	LAB NO.	SAMPLE TYPE	DATE SAMPLED	BATCH ID	DATE ANALYZED	MRL	SAMPLE CONC
H3-SHROUD-SG-12	124792	AIR	09/02/2014	090414A1	09/04/2014	10.0	19800
H3-SHROUD-SG-06	124793	AIR	09/02/2014	090414A1	09/04/2014	10.0	2010
H3-SHROUD-SG-02	124794	AIR	09/02/2014	090414A1	09/04/2014	10.0	7010
H3-SHROUD-SG-20	124795	AIR	09/02/2014	090414A1	09/04/2014	10.0	6360

NOTES:

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

APPROVED BY: MAC
DATE: 9/9/14

K PRIME, INC.
LABORATORY QC REPORT

METHOD BLANK ID: B090414A1
LAB CONTROL SAMPLE ID: L090414A1
LAB CONTROL DUPLICATE ID: D090414A1
BATCH ID: 090414A1

METHOD: 1,1,1,2-TETRAFLUOROETHANE
REFERENCE: EPA TO 3

SAMPLE TYPE: AIR
UNITS: PPM -V/V

METHOD BLANK

COMPOUND NAME	REPORTING LIMIT	SAMPLE CONC
1,1,1,2-TETRAFLUOROETHANE	10.0	ND

ACCURACY (LAB CONTROL SAMPLE)

COMPOUND NAME	EXPECTED CONC	MEASURED CONC	PERCENT RECOVERY	LIMITS (PERCENT)
1,1,1,2-TETRAFLUOROETHANE	10000	9460	95	60-140

PRECISION (LAB CONTROL DUPLICATE)

COMPOUND NAME	SAMPLE RESULT	DUPLICATE RESULT	RPD (PERCENT)	LIMITS (PERCENT)
1,1,1,2-TETRAFLUOROETHANE	9460	8450	11.3	±30

NOTES:

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

Shroads

Erler & Kalinowski, Inc.

CHAIN OF CUSTODY RECORD

CONSULTING ENGINEERS AND SCIENTISTS

1870 Ogden Drive, Burlingame CA 94010

PHONE: 650-292-9100

FAX: 650-552-9012

Project Name: MFA Hangar 2 and 3		Project No.: B20019.15		ANALYSES REQUESTED				EKI COG No.:																	
Location: Moffett Field		Sampled By: R Lion, J Sutter, B Castle		<table border="1"> <tr> <td>Method No.</td> <td>EPA TO 3</td> <td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>Analyte Group</td> <td>1,1,1,2-tetrafluoroethane</td> <td></td><td></td><td></td><td></td><td></td><td></td> </tr> </table>				Method No.	EPA TO 3							Analyte Group	1,1,1,2-tetrafluoroethane							Revision: _____ (A, B, C, D, etc.)	
Method No.	EPA TO 3																								
Analyte Group	1,1,1,2-tetrafluoroethane																								
Reporting: Electronic Format: None Hard Copy Format: PDF EPA Data Report Level: II Reporting Basis: As Rec'd Please report results to the following: NO EDF (1) EKI: labs@ekiconsult.com (2) mkking@ekiconsult.com (3) smiller@ekiconsult.com bcastle@ekiconsult.com (4) kgruebel@ekiconsult.com		Laboratory: K Prime, Inc. 3621 Westwind Blvd Santa Rosa, CA 95403 (707) 527-7574		<table border="1"> <tr> <td colspan="8" style="text-align: center;">PLACE ON HOLD</td> </tr> </table>				PLACE ON HOLD								Date: _____ By: _____									
PLACE ON HOLD																									

Field Sample Identification	Lab Sample No.	Date	Time	Matrix	Number / Type of Container (Preservative)	ANALYSES REQUESTED								EXPECTED TURNAROUND TIME	REMARKS / SUMMA ID	
H3-Shroud-SF12	124792	9/2/14	828	Air	1-liter Summa	X									5-day	S-268
H3-Shroud-SG-06	124793	I	927	I	I	X									I	SS-911
H3-Shroud-SG-02	124794	I	1032	I	I	X									I	SS-922
H3-Shroud-SG-20	124795	I	1456	I	I	X									I	S-292

Special Instructions: Please analyze all samples for 1,1,1,2-Tetrafluoroethane using a reporting limit of 10 ppmv.

Relinquished by: <i>Brian Castle</i> (Signature/Affiliation)	Date: 9/2/14	Time: 1620	Received by: <i>Enoel (VTC)</i> (Signature/Affiliation or Carrier/Air Bill No.)	Date: 9/2/14	Time: 4:20
Relinquished by: <i>Enoel (VTC)</i> (Signature/Affiliation)	Date: 9-2-14	Time: 18:46	Received by: <i>Kenneth E. Wende</i> (Signature/Affiliation)	Date: 9-2-14	Time: 18:46
Relinquished by: 	Date:	Time:	Received by: 	Date:	Time:

K PRIME, Inc.

CONSULTING ANALYTICAL CHEMISTS

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

TRANSMITTAL

DATE: 9/10/2014

TO: MS. MICHELLE KING
MR. STEVE MILLER
MS. KAREN GRUEBEL
MR. BRUCE CASTLE
ERLER & KALINOWSKI, INC.
1870 OGDEN DRIVE
BURLINGAME, CA 94010

ACCT: 9115
PROJ: B20019.15

Phone: 650-292-9100
Fax: 650-552-9012
Email: labs@ekiconsult.com
mkking@ekiconsult.com
smiller@ekiconsult.com
kgruebel@ekiconsult.com
bcastle@ekiconsult.com

FROM: Richard A. Kage1, Ph.D. *RAC 9/10/2014*
Laboratory Director

SUBJECT: LABORATORY RESULTS FOR YOUR PROJECT B20019.15

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

SAMPLE ID	TYPE	DATE	TIME	KPI LAB #
H3-SG-18	AIR	9/3/2014	08:42	124851
H3-SG-17	AIR	9/3/2014	08:24	124852
H3-SG-16	AIR	9/3/2014	09:09	124853
H3-SG-15	AIR	9/3/2014	09:19	124854
H2-SG-08	AIR	9/3/2014	10:12	124855
H2-SG-06	AIR	9/3/2014	10:40	124856
H3-SG-19	AIR	9/3/2014	08:18	124857
H3-SG-01	AIR	9/3/2014	08:41	124858
H3-SG-05	AIR	9/3/2014	09:03	124859
H3-SG-10	AIR	9/3/2014	09:26	124860
H2-SG-10	AIR	9/3/2014	10:07	124861
H2-SG-02	AIR	9/3/2014	10:39	124862

The above listed sample group was received on 9/3/2014 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: 9115
CLIENT PROJECT: B20019.15

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

SAMPLE ID: H3-SG-18
LAB NO: 124851
SAMPLE TYPE: AIR
DATE SAMPLED: 09/03/2014
TIME SAMPLED: 08:42
BATCH ID: 090514A1
DATE ANALYZED: 09/05/2014

COMPOUND NAME	CAS NO.	PPB (V/V)		µg/cu. m	
		MRL	SAMPLE CONC	MRL	SAMPLE CONC
DICHLORODIFLUOROMETHANE	75-71-8	1.00	ND	4.95	ND
DICHLOROTETRAFLUOROETHANE	76-14-2	1.00	ND	6.99	ND
CHLOROMETHANE	74-87-3	1.00	ND	2.07	ND
VINYL CHLORIDE	75-01-4	1.00	ND	2.56	ND
BROMOMETHANE	74-83-9	1.00	ND	3.88	ND
CHLOROETHANE	75-00-3	1.00	ND	2.64	ND
TRICHLOROFLUOROMETHANE	75-69-4	1.00	ND	5.62	ND
1,1-DICHLOROETHENE	75-35-4	1.00	ND	3.97	ND
TRICHLOROTRIFLUOROETHANE	76-13-1	1.00	10.1	7.66	77.3
METHYLENE CHLORIDE	75-09-2	1.00	ND	3.47	ND
TRANS-1,2-DICHLOROETHENE	156-60-5	1.00	ND	3.96	ND
1,1-DICHLOROETHANE	75-34-3	1.00	ND	4.05	ND
CIS-1,2-DICHLOROETHENE	156-59-2	1.00	ND	3.97	ND
CHLOROFORM	67-66-3	1.00	ND	4.88	ND
1,1,1-TRICHLOROETHANE	71-55-6	1.00	19.4	5.46	106
CARBON TETRACHLORIDE	56-23-5	1.00	ND	6.29	ND
1,2-DICHLOROETHANE	107-06-2	1.00	ND	4.05	ND
BENZENE	71-43-2	1.00	ND	3.19	ND
TRICHLOROETHENE	79-01-6	1.00	5.17	5.37	27.8
1,2-DICHLOROPROPANE	78-87-5	1.00	ND	4.62	ND
TRANS-1,3-DICHLOROPROPENE	10061-02-6	1.00	ND	4.54	ND
TOLUENE	108-88-3	1.00	1.17	3.77	4.41
CIS-1,3-DICHLOROPROPENE	10061-01-5	1.00	ND	4.54	ND
1,1,2-TRICHLOROETHANE	79-00-5	1.00	ND	5.46	ND
TETRACHLOROETHENE	127-18-4	1.00	33.3	6.78	226
1,2-DIBROMOETHANE	106-93-4	1.00	ND	7.68	ND
CHLOROBENZENE	108-90-7	1.00	ND	4.60	ND
ETHYLBENZENE	100-41-4	1.00	ND	4.34	ND
XYLENE (M+P)	1330-20-7	1.00	2.40	4.34	10.4
XYLENE (O)	95-47-6	1.00	1.58	4.34	6.86
STYRENE	100-42-5	1.00	ND	4.26	ND
1,1,2,2-TETRACHLOROETHANE	79-34-5	1.00	ND	6.87	ND
1,3,5-TRIMETHYLBENZENE	108-67-8	1.00	1.50	4.92	7.37
1,2,4-TRIMETHYLBENZENE	95-63-6	1.00	1.68	4.92	8.26
1,3-DICHLOROENZENE	541-73-1	1.00	ND	6.01	ND
1,4-DICHLOROENZENE	106-46-7	1.00	ND	6.01	ND
1,2-DICHLOROENZENE	95-50-1	1.00	ND	6.01	ND
1,2,4-TRICHLOROENZENE	120-82-1	2.00	ND	14.8	ND
HEXACHLOROBUTADIENE	87-68-3	1.00	ND	10.7	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: 9/10/14

K PRIME, INC.
LABORATORY REPORT

K PRIME PROJECT: 9115
CLIENT PROJECT: B20019.15

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

SAMPLE ID: H3-SG-17
LAB NO: 124852
SAMPLE TYPE: AIR
DATE SAMPLED: 09/03/2014
TIME SAMPLED: 08:24
BATCH ID: 090514A1
DATE ANALYZED: 09/05/2014

COMPOUND NAME	CAS NO.	PPB (V/V)		µg/cu. m	
		MRL	SAMPLE CONC	MRL	SAMPLE CONC
DICHLORODIFLUOROMETHANE	75-71-8	1.00	ND	4.95	ND
DICHLOROTETRAFLUOROETHANE	76-14-2	1.00	ND	6.99	ND
CHLOROMETHANE	74-87-3	1.00	ND	2.07	ND
VINYL CHLORIDE	75-01-4	1.00	ND	2.56	ND
BROMOMETHANE	74-83-9	1.00	ND	3.88	ND
CHLOROETHANE	75-00-3	1.00	ND	2.64	ND
TRICHLOROFLUOROMETHANE	75-69-4	1.00	ND	5.62	ND
1,1-DICHLOROETHENE	75-35-4	1.00	ND	3.97	ND
TRICHLOROTRIFLUOROETHANE	76-13-1	1.00	4.46	7.66	34.2
METHYLENE CHLORIDE	75-09-2	1.00	ND	3.47	ND
TRANS-1,2-DICHLOROETHENE	156-60-5	1.00	ND	3.96	ND
1,1-DICHLOROETHANE	75-34-3	1.00	ND	4.05	ND
CIS-1,2-DICHLOROETHENE	156-59-2	1.00	ND	3.97	ND
CHLOROFORM	67-66-3	1.00	ND	4.88	ND
1,1,1-TRICHLOROETHANE	71-55-6	1.00	7.51	5.46	41.0
CARBON TETRACHLORIDE	56-23-5	1.00	ND	6.29	ND
1,2-DICHLOROETHANE	107-06-2	1.00	ND	4.05	ND
BENZENE	71-43-2	1.00	1.64	3.19	5.24
TRICHLOROETHENE	79-01-6	1.00	8.37	5.37	45.0
1,2-DICHLOROPROPANE	78-87-5	1.00	ND	4.62	ND
TRANS-1,3-DICHLOROPROPENE	10061-02-6	1.00	ND	4.54	ND
TOLUENE	108-88-3	1.00	ND	3.77	ND
CIS-1,3-DICHLOROPROPENE	10061-01-5	1.00	ND	4.54	ND
1,1,2-TRICHLOROETHANE	79-00-5	1.00	ND	5.46	ND
TETRACHLOROETHENE	127-18-4	1.00	27.0	6.78	183
1,2-DIBROMOETHANE	106-93-4	1.00	ND	7.68	ND
CHLOROBENZENE	108-90-7	1.00	ND	4.60	ND
ETHYLBENZENE	100-41-4	1.00	ND	4.34	ND
XYLENE (M+P)	1330-20-7	1.00	ND	4.34	ND
XYLENE (O)	95-47-6	1.00	ND	4.34	ND
STYRENE	100-42-5	1.00	1.82	4.26	7.75
1,1,2,2-TETRACHLOROETHANE	79-34-5	1.00	ND	6.87	ND
1,3,5-TRIMETHYLBENZENE	108-67-8	1.00	ND	4.92	ND
1,2,4-TRIMETHYLBENZENE	95-63-6	1.00	ND	4.92	ND
1,3-DICHLOROBENZENE	541-73-1	1.00	ND	6.01	ND
1,4-DICHLOROBENZENE	106-46-7	1.00	ND	6.01	ND
1,2-DICHLOROBENZENE	95-50-1	1.00	ND	6.01	ND
1,2,4-TRICHLOROBENZENE	120-82-1	2.00	ND	14.8	ND
HEXACHLOROBUTADIENE	87-68-3	1.00	ND	10.7	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: JMC
DATE: 9/10/14

K PRIME, INC.
LABORATORY REPORT

K PRIME PROJECT: 9115
CLIENT PROJECT: B20019.15

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

SAMPLE ID: H3-SG-16
LAB NO: 124853
SAMPLE TYPE: AIR
DATE SAMPLED: 09/03/2014
TIME SAMPLED: 09:09
BATCH ID: 090514A1
DATE ANALYZED: 09/05/2014

COMPOUND NAME	CAS NO.	PPB (V/V)		µg/cu. m	
		MRL	SAMPLE CONC	MRL	SAMPLE CONC
DICHLORODIFLUOROMETHANE	75-71-8	1.00	ND	4.95	ND
DICHLOROTETRAFLUOROETHANE	76-14-2	1.00	ND	6.99	ND
CHLOROMETHANE	74-87-3	1.00	ND	2.07	ND
VINYL CHLORIDE	75-01-4	1.00	ND	2.56	ND
BROMOMETHANE	74-83-9	1.00	ND	3.88	ND
CHLOROETHANE	75-00-3	1.00	ND	2.64	ND
TRICHLOROFLUOROMETHANE	75-69-4	1.00	ND	5.62	ND
1,1-DICHLOROETHENE	75-35-4	1.00	ND	3.97	ND
TRICHLOROTRIFLUOROETHANE	76-13-1	1.00	3.26	7.66	25.0
METHYLENE CHLORIDE	75-09-2	1.00	ND	3.47	ND
TRANS-1,2-DICHLOROETHENE	156-60-5	1.00	ND	3.96	ND
1,1-DICHLOROETHANE	75-34-3	1.00	ND	4.05	ND
CIS-1,2-DICHLOROETHENE	156-59-2	1.00	ND	3.97	ND
CHLOROFORM	67-66-3	1.00	ND	4.88	ND
1,1,1-TRICHLOROETHANE	71-55-6	1.00	54.9	5.46	300
CARBON TETRACHLORIDE	56-23-5	1.00	ND	6.29	ND
1,2-DICHLOROETHANE	107-06-2	1.00	ND	4.05	ND
BENZENE	71-43-2	1.00	ND	3.19	ND
TRICHLOROETHENE	79-01-6	1.00	4.97	5.37	26.7
1,2-DICHLOROPROPANE	78-87-5	1.00	ND	4.62	ND
TRANS-1,3-DICHLOROPROPENE	10061-02-6	1.00	ND	4.54	ND
TOLUENE	108-88-3	1.00	ND	3.77	ND
CIS-1,3-DICHLOROPROPENE	10061-01-5	1.00	ND	4.54	ND
1,1,2-TRICHLOROETHANE	79-00-5	1.00	ND	5.46	ND
TETRACHLOROETHENE	127-18-4	1.00	15.9	6.78	108
1,2-DIBROMOETHANE	106-93-4	1.00	ND	7.68	ND
CHLOROBENZENE	108-90-7	1.00	ND	4.60	ND
ETHYLBENZENE	100-41-4	1.00	ND	4.34	ND
XYLENE (M+P)	1330-20-7	1.00	ND	4.34	ND
XYLENE (O)	95-47-6	1.00	ND	4.34	ND
STYRENE	100-42-5	1.00	1.47	4.26	6.26
1,1,2,2-TETRACHLOROETHANE	79-34-5	1.00	ND	6.87	ND
1,3,5-TRIMETHYLBENZENE	108-67-8	1.00	ND	4.92	ND
1,2,4-TRIMETHYLBENZENE	95-63-6	1.00	ND	4.92	ND
1,3-DICHLOROBENZENE	541-73-1	1.00	ND	6.01	ND
1,4-DICHLOROBENZENE	106-46-7	1.00	ND	6.01	ND
1,2-DICHLOROBENZENE	95-50-1	1.00	ND	6.01	ND
1,2,4-TRICHLOROBENZENE	120-82-1	2.00	ND	14.8	ND
HEXACHLOROBUTADIENE	87-68-3	1.00	ND	10.7	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: NAK
DATE: 9/10/14

K PRIME, INC.
LABORATORY REPORT

K PRIME PROJECT: 9115
CLIENT PROJECT: B20019.15

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

SAMPLE ID: H3-SG-15
LAB NO: 124854
SAMPLE TYPE: AIR
DATE SAMPLED: 09/03/2014
TIME SAMPLED: 09:19
BATCH ID: 090514A1
DATE ANALYZED: 09/07/2014

COMPOUND NAME	CAS NO.	PPB (V/V)		µg/cu. m	
		MRL	SAMPLE CONC	MRL	SAMPLE CONC
CHLOROMETHANE	74-87-3	1.00	ND	2.07	ND
VINYL CHLORIDE	75-01-4	1.00	ND	2.56	ND
BROMOMETHANE	74-83-9	1.00	ND	3.88	ND
CHLOROETHANE	75-00-3	1.00	ND	2.64	ND
TRICHLOROFUOROMETHANE	75-69-4	1.00	ND	5.62	ND
1,1-DICHLOROETHENE	75-35-4	1.00	ND	3.97	ND
TRICHLOROTRIFLUOROETHANE	76-13-1	1.00	23.9	7.66	183
METHYLENE CHLORIDE	75-09-2	1.00	ND	3.47	ND
TRANS-1,2-DICHLOROETHENE	156-80-5	1.00	ND	3.96	ND
1,1-DICHLOROETHANE	75-34-3	1.00	ND	4.05	ND
CIS-1,2-DICHLOROETHENE	156-59-2	1.00	ND	3.97	ND
CHLOROFORM	67-66-3	1.00	ND	4.88	ND
1,1,1-TRICHLOROETHANE	71-55-6	1.00	12.5	5.46	68.1
CARBON TETRACHLORIDE	56-23-5	1.00	1.45	6.29	9.12
1,2-DICHLOROETHANE	107-06-2	1.00	ND	4.05	ND
BENZENE	71-43-2	1.00	2.04	3.19	6.52
TRICHLOROETHENE	79-01-6	1.00	5.88	5.37	31.6
1,2-DICHLOROPROPANE	78-87-5	1.00	ND	4.62	ND
TRANS-1,3-DICHLOROPROPENE	10061-02-6	1.00	ND	4.54	ND
TOLUENE	108-88-3	1.00	4.48	3.77	16.9
CIS-1,3-DICHLOROPROPENE	10061-01-5	1.00	ND	4.54	ND
1,1,2-TRICHLOROETHANE	79-00-5	1.00	ND	5.46	ND
TETRACHLOROETHENE	127-18-4	1.00	37.7	6.78	258
1,2-DIBROMOETHANE	106-93-4	1.00	ND	7.68	ND
CHLOROBENZENE	108-90-7	1.00	ND	4.60	ND
ETHYLBENZENE	100-41-4	1.00	ND	4.34	ND
XYLENE (M+P)	1330-20-7	1.00	2.41	4.34	10.5
XYLENE (O)	95-47-6	1.00	ND	4.34	ND
STYRENE	100-42-5	1.00	2.00	4.26	8.52
1,1,2,2-TETRACHLOROETHANE	79-34-5	1.00	ND	6.87	ND
1,3,5-TRIMETHYLBENZENE	108-67-8	1.00	6.32	4.92	31.1
1,2,4-TRIMETHYLBENZENE	95-63-6	1.00	ND	4.92	ND
1,3-DICHLOROBENZENE	541-73-1	1.00	ND	6.01	ND
1,4-DICHLOROBENZENE	106-46-7	1.00	ND	6.01	ND
1,2-DICHLOROBENZENE	95-50-1	1.00	ND	6.01	ND
1,2,4-TRICHLOROBENZENE	120-82-1	2.00	ND	14.8	ND
HEXACHLOROBUTADIENE	87-68-3	1.00	ND	10.7	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: 9/10/14

K PRIME, INC.
LABORATORY REPORT

K PRIME PROJECT: 9115
CLIENT PROJECT: B20019.15

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

SAMPLE ID: H2-SG-08
LAB NO: 124855
SAMPLE TYPE: AIR
DATE SAMPLED: 09/03/2014
TIME SAMPLED: 10:12
BATCH ID: 090514A1
DATE ANALYZED: 09/05/2014

COMPOUND NAME	CAS NO.	PPB (V/V)		µg/cu. m	
		MRL	SAMPLE CONC	MRL	SAMPLE CONC
DICHLORODIFLUOROMETHANE	75-71-8	1.00	ND	4.95	ND
DICHLOROTETRAFLUOROETHANE	76-14-2	1.00	ND	6.99	ND
CHLOROMETHANE	74-87-3	1.00	ND	2.07	ND
VINYL CHLORIDE	75-01-4	1.00	ND	2.56	ND
BROMOMETHANE	74-83-9	1.00	ND	3.88	ND
CHLOROETHANE	75-00-3	1.00	ND	2.64	ND
TRICHLOROFLUOROMETHANE	75-69-4	1.00	ND	5.62	ND
1,1-DICHLOROETHENE	75-35-4	1.00	ND	3.97	ND
TRICHLOROTRIFLUOROETHANE	76-13-1	1.00	34.7	7.66	266
METHYLENE CHLORIDE	75-09-2	1.00	ND	3.47	ND
TRANS-1,2-DICHLOROETHENE	156-60-5	1.00	ND	3.96	ND
1,1-DICHLOROETHANE	75-34-3	1.00	ND	4.05	ND
CIS-1,2-DICHLOROETHENE	156-59-2	1.00	ND	3.97	ND
CHLOROFORM	67-66-3	1.00	ND	4.88	ND
1,1,1-TRICHLOROETHANE	71-55-6	1.00	59.7	5.46	326
CARBON TETRACHLORIDE	56-23-5	1.00	ND	6.29	ND
1,2-DICHLOROETHANE	107-06-2	1.00	ND	4.05	ND
BENZENE	71-43-2	1.00	ND	3.19	ND
TRICHLOROETHENE	79-01-6	1.00	ND	5.37	ND
1,2-DICHLOROPROPANE	78-87-5	1.00	ND	4.62	ND
TRANS-1,3-DICHLOROPROPENE	10061-02-6	1.00	ND	4.54	ND
TOLUENE	108-88-3	1.00	ND	3.77	ND
CIS-1,3-DICHLOROPROPENE	10061-01-5	1.00	ND	4.54	ND
1,1,2-TRICHLOROETHANE	79-00-5	1.00	ND	5.46	ND
TETRACHLOROETHENE	127-18-4	1.00	3.74	6.78	25.4
1,2-DIBROMOETHANE	106-93-4	1.00	ND	7.68	ND
CHLOROBENZENE	108-90-7	1.00	ND	4.60	ND
ETHYLBENZENE	100-41-4	1.00	ND	4.34	ND
XYLENE (M+P)	1330-20-7	1.00	ND	4.34	ND
XYLENE (O)	95-47-6	1.00	ND	4.34	ND
STYRENE	100-42-5	1.00	ND	4.26	ND
1,1,2,2-TETRACHLOROETHANE	79-34-5	1.00	ND	6.87	ND
1,3,5-TRIMETHYLBENZENE	108-67-8	1.00	ND	4.92	ND
1,2,4-TRIMETHYLBENZENE	95-63-6	1.00	ND	4.92	ND
1,3-DICHLOROBENZENE	541-73-1	1.00	ND	6.01	ND
1,4-DICHLOROBENZENE	106-46-7	1.00	ND	6.01	ND
1,2-DICHLOROBENZENE	95-50-1	1.00	ND	6.01	ND
1,2,4-TRICHLOROBENZENE	120-82-1	2.00	ND	14.8	ND
HEXACHLOROBUTADIENE	87-68-3	1.00	ND	10.7	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: KMC
DATE: 9/10/14

K PRIME, INC.
LABORATORY REPORT

K PRIME PROJECT: 9115
CLIENT PROJECT: B20019.15

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

SAMPLE ID: H2-SG-06
LAB NO: 124856
SAMPLE TYPE: AIR
DATE SAMPLED: 09/03/2014
TIME SAMPLED: 10:40
BATCH ID: 090514A1
DATE ANALYZED: 09/05/2014

COMPOUND NAME	CAS NO.	PPB (V/V)		µg/cu. m	
		MRL	SAMPLE CONC	MRL	SAMPLE CONC
CHLOROMETHANE	74-87-3	1.00	ND	2.07	ND
VINYL CHLORIDE	75-01-4	1.00	ND	2.56	ND
BROMOMETHANE	74-83-9	1.00	ND	3.88	ND
CHLOROETHANE	75-00-3	1.00	ND	2.64	ND
TRICHLOROFUOROMETHANE	75-69-4	1.00	ND	5.62	ND
1,1-DICHLOROETHENE	75-35-4	1.00	ND	3.97	ND
TRICHLOROTRIFLUOROETHANE	76-13-1	1.00	ND	7.66	ND
METHYLENE CHLORIDE	75-09-2	1.00	ND	3.47	ND
TRANS-1,2-DICHLOROETHENE	156-60-5	1.00	ND	3.96	ND
1,1-DICHLOROETHANE	75-34-3	1.00	ND	4.05	ND
CIS-1,2-DICHLOROETHENE	156-59-2	1.00	ND	3.97	ND
CHLOROFORM	67-66-3	1.00	ND	4.88	ND
1,1,1-TRICHLOROETHANE	71-55-6	1.00	ND	5.46	ND
CARBON TETRACHLORIDE	56-23-5	1.00	ND	6.29	ND
1,2-DICHLOROETHANE	107-06-2	1.00	ND	4.05	ND
BENZENE	71-43-2	1.00	ND	3.19	ND
TRICHLOROETHENE	79-01-6	1.00	ND	5.37	ND
1,2-DICHLOROPROPANE	78-87-5	1.00	ND	4.62	ND
TRANS-1,3-DICHLOROPROPENE	10061-02-6	1.00	ND	4.54	ND
TOLUENE	108-88-3	1.00	ND	3.77	ND
CIS-1,3-DICHLOROPROPENE	10061-01-5	1.00	ND	4.54	ND
1,1,2-TRICHLOROETHANE	79-00-5	1.00	ND	5.46	ND
TETRACHLOROETHENE	127-18-4	1.00	ND	6.78	ND
1,2-DIBROMOETHANE	106-93-4	1.00	ND	7.68	ND
CHLOROBENZENE	108-90-7	1.00	ND	4.60	ND
ETHYLBENZENE	100-41-4	1.00	ND	4.34	ND
XYLENE (M+P)	1330-20-7	1.00	ND	4.34	ND
XYLENE (O)	95-47-6	1.00	ND	4.34	ND
STYRENE	100-42-5	1.00	ND	4.26	ND
1,1,2,2-TETRACHLOROETHANE	79-34-5	1.00	ND	6.87	ND
1,3,5-TRIMETHYLBENZENE	108-67-8	1.00	ND	4.92	ND
1,2,4-TRIMETHYLBENZENE	95-63-6	1.00	ND	4.92	ND
1,3-DICHLOROBENZENE	541-73-1	1.00	ND	6.01	ND
1,4-DICHLOROBENZENE	106-46-7	1.00	ND	6.01	ND
1,2-DICHLOROBENZENE	95-50-1	1.00	ND	6.01	ND
1,2,4-TRICHLOROBENZENE	120-82-1	2.00	ND	14.8	ND
HEXACHLOROBUTADIENE	87-68-3	1.00	ND	10.7	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: 9/10/14

K PRIME, INC.
LABORATORY REPORT

K PRIME PROJECT: 9115
 CLIENT PROJECT: B20019.15

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

SAMPLE ID: H3-SG-19
 LAB NO: 124857
 SAMPLE TYPE: AIR
 DATE SAMPLED: 09/03/2014
 TIME SAMPLED: 08:18
 BATCH ID: 090514A1
 DATE ANALYZED: 09/05/2014

COMPOUND NAME	CAS NO.	PPB (V/V)		µg/cu. m	
		MRL	SAMPLE CONC	MRL	SAMPLE CONC
DICHLORODIFLUOROMETHANE	75-71-8	1.00	ND	4.95	ND
DICHLOROTETRAFLUOROETHANE	76-14-2	1.00	ND	6.99	ND
CHLOROMETHANE	74-87-3	1.00	ND	2.07	ND
VINYL CHLORIDE	75-01-4	1.00	ND	2.56	ND
BROMOMETHANE	74-83-9	1.00	ND	3.88	ND
CHLOROETHANE	75-00-3	1.00	ND	2.64	ND
TRICHLOROFLUOROMETHANE	75-69-4	1.00	ND	5.62	ND
1,1-DICHLOROETHENE	75-35-4	1.00	ND	3.97	ND
TRICHLOROTRIFLUOROETHANE	76-13-1	1.00	2.92	7.66	22.4
METHYLENE CHLORIDE	75-09-2	1.00	ND	3.47	ND
TRANS-1,2-DICHLOROETHENE	156-60-5	1.00	ND	3.96	ND
1,1-DICHLOROETHANE	75-34-3	1.00	ND	4.05	ND
CIS-1,2-DICHLOROETHENE	156-59-2	1.00	ND	3.97	ND
CHLOROFORM	67-66-3	1.00	ND	4.88	ND
1,1,1-TRICHLOROETHANE	71-55-6	1.00	ND	5.46	ND
CARBON TETRACHLORIDE	56-23-5	1.00	ND	6.29	ND
1,2-DICHLOROETHANE	107-06-2	1.00	ND	4.05	ND
BENZENE	71-43-2	1.00	ND	3.19	ND
TRICHLOROETHENE	79-01-6	1.00	ND	5.37	ND
1,2-DICHLOROPROPANE	78-87-5	1.00	ND	4.62	ND
TRANS-1,3-DICHLOROPROPENE	10061-02-6	1.00	ND	4.54	ND
TOLUENE	108-88-3	1.00	ND	3.77	ND
CIS-1,3-DICHLOROPROPENE	10061-01-5	1.00	ND	4.54	ND
1,1,2-TRICHLOROETHANE	79-00-5	1.00	ND	5.46	ND
TETRACHLOROETHENE	127-18-4	1.00	ND	6.78	ND
1,2-DIBROMOETHANE	106-93-4	1.00	ND	7.68	ND
CHLOROBENZENE	108-90-7	1.00	ND	4.60	ND
ETHYLBENZENE	100-41-4	1.00	ND	4.34	ND
XYLENE (M+P)	1330-20-7	1.00	ND	4.34	ND
XYLENE (O)	95-47-6	1.00	ND	4.34	ND
STYRENE	100-42-5	1.00	ND	4.26	ND
1,1,2,2-TETRACHLOROETHANE	79-34-5	1.00	ND	6.87	ND
1,3,5-TRIMETHYLBENZENE	108-67-8	1.00	ND	4.92	ND
1,2,4-TRIMETHYLBENZENE	95-63-6	1.00	ND	4.92	ND
1,3-DICHLOROBENZENE	541-73-1	1.00	ND	6.01	ND
1,4-DICHLOROBENZENE	106-46-7	1.00	ND	6.01	ND
1,2-DICHLOROBENZENE	95-50-1	1.00	ND	6.01	ND
1,2,4-TRICHLOROBENZENE	120-82-1	2.00	ND	14.8	ND
HEXACHLOROBUTADIENE	87-68-3	1.00	ND	10.7	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: 9/10/14

K PRIME, INC.
LABORATORY REPORT

K PRIME PROJECT: 9115
CLIENT PROJECT: B20019.15

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

SAMPLE ID: H3-SG-01
LAB NO: 124858
SAMPLE TYPE: AIR
DATE SAMPLED: 09/03/2014
TIME SAMPLED: 08:41
BATCH ID: 090514A1
DATE ANALYZED: 09/05/2014

COMPOUND NAME	CAS NO.	PPB (V/V)		µg/cu. m	
		MRL	SAMPLE CONC	MRL	SAMPLE CONC
DICHLORODIFLUOROMETHANE	75-71-8	1.00	ND	4.95	ND
DICHLOROTETRAFLUOROETHANE	76-14-2	1.00	ND	6.99	ND
CHLOROMETHANE	74-87-3	1.00	ND	2.07	ND
VINYL CHLORIDE	75-01-4	1.00	ND	2.56	ND
BROMOMETHANE	74-83-9	1.00	ND	3.88	ND
CHLOROETHANE	75-00-3	1.00	ND	2.64	ND
TRICHLOROFLUOROMETHANE	75-69-4	1.00	ND	5.62	ND
1,1-DICHLOROETHENE	75-35-4	1.00	ND	3.97	ND
TRICHLOROTRIFLUOROETHANE	76-13-1	1.00	ND	7.66	ND
METHYLENE CHLORIDE	75-09-2	1.00	ND	3.47	ND
TRANS-1,2-DICHLOROETHENE	156-60-5	1.00	ND	3.96	ND
1,1-DICHLOROETHANE	75-34-3	1.00	ND	4.05	ND
CIS-1,2-DICHLOROETHENE	156-59-2	1.00	ND	3.97	ND
CHLOROFORM	67-66-3	1.00	ND	4.88	ND
1,1,1-TRICHLOROETHANE	71-55-6	1.00	ND	5.46	ND
CARBON TETRACHLORIDE	56-23-5	1.00	ND	6.29	ND
1,2-DICHLOROETHANE	107-06-2	1.00	ND	4.05	ND
BENZENE	71-43-2	1.00	ND	3.19	ND
TRICHLOROETHENE	79-01-6	1.00	ND	5.37	ND
1,2-DICHLOROPROPANE	78-87-5	1.00	ND	4.62	ND
TRANS-1,3-DICHLOROPROPENE	10061-02-6	1.00	ND	4.54	ND
TOLUENE	108-88-3	1.00	ND	3.77	ND
CIS-1,3-DICHLOROPROPENE	10061-01-5	1.00	ND	4.54	ND
1,1,2-TRICHLOROETHANE	79-00-5	1.00	ND	5.46	ND
TETRACHLOROETHENE	127-18-4	1.00	ND	6.78	ND
1,2-DIBROMOETHANE	106-93-4	1.00	ND	7.68	ND
CHLOROBENZENE	108-90-7	1.00	ND	4.60	ND
ETHYLBENZENE	100-41-4	1.00	ND	4.34	ND
XYLENE (M+P)	1330-20-7	1.00	ND	4.34	ND
XYLENE (O)	95-47-6	1.00	ND	4.34	ND
STYRENE	100-42-5	1.00	ND	4.26	ND
1,1,2,2-TETRACHLOROETHANE	79-34-5	1.00	ND	6.87	ND
1,3,5-TRIMETHYLBENZENE	108-67-8	1.00	ND	4.92	ND
1,2,4-TRIMETHYLBENZENE	95-63-6	1.00	ND	4.92	ND
1,3-DICHLOROBENZENE	541-73-1	1.00	ND	6.01	ND
1,4-DICHLOROBENZENE	106-46-7	1.00	ND	6.01	ND
1,2-DICHLOROBENZENE	95-50-1	1.00	ND	6.01	ND
1,2,4-TRICHLOROBENZENE	120-82-1	2.00	ND	14.8	ND
HEXACHLOROBUTADIENE	87-68-3	1.00	ND	10.7	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: 9/10/14

K PRIME, INC.
LABORATORY REPORT

K PRIME PROJECT: 9115
CLIENT PROJECT: B20019.15

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

SAMPLE ID: H3-SG-05
LAB NO: 124859
SAMPLE TYPE: AIR
DATE SAMPLED: 09/03/2014
TIME SAMPLED: 09:03
BATCH ID: 090514A1
DATE ANALYZED: 09/06/2014

COMPOUND NAME	CAS NO.	PPB (V/V)		µg/cu. m	
		MRL	SAMPLE CONC	MRL	SAMPLE CONC
DICHLORODIFLUOROMETHANE	75-71-8	1.00	ND	4.95	ND
DICHLOROTETRAFLUOROETHANE	76-14-2	1.00	ND	6.99	ND
CHLOROMETHANE	74-87-3	1.00	ND	2.07	ND
VINYL CHLORIDE	75-01-4	1.00	ND	2.56	ND
BROMOMETHANE	74-83-9	1.00	ND	3.88	ND
CHLOROETHANE	75-00-3	1.00	ND	2.64	ND
TRICHLOROFLUOROMETHANE	75-69-4	1.00	ND	5.62	ND
1,1-DICHLOROETHENE	75-35-4	1.00	ND	3.97	ND
TRICHLOROTRIFLUOROETHANE	76-13-1	1.00	ND	7.66	ND
METHYLENE CHLORIDE	75-09-2	1.00	ND	3.47	ND
TRANS-1,2-DICHLOROETHENE	156-60-5	1.00	ND	3.96	ND
1,1-DICHLOROETHANE	75-34-3	1.00	ND	4.05	ND
CIS-1,2-DICHLOROETHENE	156-59-2	1.00	ND	3.97	ND
CHLOROFORM	67-66-3	1.00	ND	4.88	ND
1,1,1-TRICHLOROETHANE	71-55-6	1.00	1.65	5.46	9.00
CARBON TETRACHLORIDE	56-23-5	1.00	4.11	6.29	25.9
1,2-DICHLOROETHANE	107-06-2	1.00	ND	4.05	ND
BENZENE	71-43-2	1.00	ND	3.19	ND
TRICHLOROETHENE	79-01-6	1.00	ND	5.37	ND
1,2-DICHLOROPROPANE	78-87-5	1.00	ND	4.62	ND
TRANS-1,3-DICHLOROPROPENE	10061-02-6	1.00	ND	4.54	ND
TOLUENE	108-88-3	1.00	ND	3.77	ND
CIS-1,3-DICHLOROPROPENE	10061-01-5	1.00	ND	4.54	ND
1,1,2-TRICHLOROETHANE	79-00-5	1.00	ND	5.46	ND
TETRACHLOROETHENE	127-18-4	1.00	98.0	6.78	665
1,2-DIBROMOETHANE	106-93-4	1.00	ND	7.68	ND
CHLOROBENZENE	108-90-7	1.00	ND	4.60	ND
ETHYLBENZENE	100-41-4	1.00	ND	4.34	ND
XYLENE (M+P)	1330-20-7	1.00	ND	4.34	ND
XYLENE (O)	95-47-6	1.00	ND	4.34	ND
STYRENE	100-42-5	1.00	ND	4.26	ND
1,1,2,2-TETRACHLOROETHANE	79-34-5	1.00	ND	6.87	ND
1,3,5-TRIMETHYLBENZENE	108-67-8	1.00	ND	4.92	ND
1,2,4-TRIMETHYLBENZENE	95-63-6	1.00	ND	4.92	ND
1,3-DICHLOROBENZENE	541-73-1	1.00	ND	6.01	ND
1,4-DICHLOROBENZENE	106-46-7	1.00	ND	6.01	ND
1,2-DICHLOROBENZENE	95-50-1	1.00	ND	6.01	ND
1,2,4-TRICHLOROBENZENE	120-82-1	2.00	ND	14.8	ND
HEXACHLOROBUTADIENE	87-68-3	1.00	ND	10.7	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: KML
DATE: 9/10/14

K PRIME, INC.
LABORATORY REPORT

K PRIME PROJECT: 9115
CLIENT PROJECT: B20019.15

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

SAMPLE ID: H3-SG-10
LAB NO: 124860
SAMPLE TYPE: AIR
DATE SAMPLED: 09/03/2014
TIME SAMPLED: 09:26
BATCH ID: 090514A1
DATE ANALYZED: 09/06/2014

COMPOUND NAME	CAS NO.	PPB (V/V)		µg/cu. m	
		MRL	SAMPLE CONC	MRL	SAMPLE CONC
DICHLORODIFLUOROMETHANE	75-71-8	1.00	ND	4.95	ND
DICHLOROTETRAFLUOROETHANE	76-14-2	1.00	ND	6.99	ND
CHLOROMETHANE	74-87-3	1.00	ND	2.07	ND
VINYL CHLORIDE	75-01-4	1.00	ND	2.66	ND
BROMOMETHANE	74-83-9	1.00	ND	3.88	ND
CHLOROETHANE	75-00-3	1.00	ND	2.64	ND
TRICHLOROFLUOROMETHANE	75-69-4	1.00	ND	5.62	ND
1,1-DICHLOROETHENE	75-35-4	1.00	ND	3.97	ND
TRICHLOROTRIFLUOROETHANE	76-13-1	1.00	ND	7.66	ND
METHYLENE CHLORIDE	75-09-2	1.00	ND	3.47	ND
TRANS-1,2-DICHLOROETHENE	156-60-5	1.00	ND	3.96	ND
1,1-DICHLOROETHANE	75-34-3	1.00	ND	4.05	ND
CIS-1,2-DICHLOROETHENE	156-59-2	1.00	ND	3.97	ND
CHLOROFORM	67-66-3	1.00	ND	4.88	ND
1,1,1-TRICHLOROETHANE	71-55-6	1.00	ND	5.46	ND
CARBON TETRACHLORIDE	56-23-5	1.00	ND	6.29	ND
1,2-DICHLOROETHANE	107-06-2	1.00	ND	4.05	ND
BENZENE	71-43-2	1.00	ND	3.19	ND
TRICHLOROETHENE	79-01-6	1.00	ND	5.37	ND
1,2-DICHLOROPROPANE	78-87-5	1.00	ND	4.62	ND
TRANS-1,3-DICHLOROPROPENE	10061-02-6	1.00	ND	4.54	ND
TOLUENE	108-88-3	1.00	ND	3.77	ND
CIS-1,3-DICHLOROPROPENE	10061-01-5	1.00	ND	4.54	ND
1,1,2-TRICHLOROETHANE	79-00-5	1.00	ND	5.46	ND
TETRACHLOROETHENE	127-18-4	1.00	ND	6.78	ND
1,2-DIBROMOETHANE	106-93-4	1.00	ND	7.68	ND
CHLOROBENZENE	108-90-7	1.00	ND	4.60	ND
ETHYLBENZENE	100-41-4	1.00	ND	4.34	ND
XYLENE (M+P)	1330-20-7	1.00	ND	4.34	ND
XYLENE (O)	95-47-6	1.00	ND	4.34	ND
STYRENE	100-42-5	1.00	ND	4.26	ND
1,1,2,2-TETRACHLOROETHANE	79-34-5	1.00	ND	6.87	ND
1,3,5-TRIMETHYLBENZENE	108-67-8	1.00	ND	4.92	ND
1,2,4-TRIMETHYLBENZENE	95-63-6	1.00	ND	4.92	ND
1,3-DICHLOROBENZENE	541-73-1	1.00	ND	6.01	ND
1,4-DICHLOROBENZENE	106-46-7	1.00	ND	6.01	ND
1,2-DICHLOROBENZENE	95-50-1	1.00	ND	6.01	ND
1,2,4-TRICHLOROBENZENE	120-82-1	2.00	ND	14.8	ND
HEXACHLOROBUTADIENE	87-68-3	1.00	ND	10.7	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: RMI
DATE: 9/10/14

K PRIME, INC.
LABORATORY REPORT

K PRIME PROJECT: 9115
CLIENT PROJECT: B20019.15

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

SAMPLE ID: H2-SG-10
LAB NO: 124861
SAMPLE TYPE: AIR
DATE SAMPLED: 09/03/2014
TIME SAMPLED: 10:07
BATCH ID: 090514A1
DATE ANALYZED: 09/05/2014

COMPOUND NAME	CAS NO.	PPB (V/V)		µg/cu. m	
		MRL	SAMPLE CONC	MRL	SAMPLE CONC
DICHLORODIFLUOROMETHANE	75-71-8	1.00	ND	4.95	ND
DICHLOROTETRAFLUOROETHANE	76-14-2	1.00	ND	6.99	ND
CHLOROMETHANE	74-87-3	1.00	ND	2.07	ND
VINYL CHLORIDE	75-01-4	1.00	ND	2.56	ND
BROMOMETHANE	74-83-9	1.00	ND	3.88	ND
CHLOROETHANE	75-00-3	1.00	ND	2.64	ND
TRICHLOROFLUOROMETHANE	75-69-4	1.00	ND	5.62	ND
1,1-DICHLOROETHENE	75-35-4	1.00	ND	3.97	ND
TRICHLOROTRIFLUOROETHANE	76-13-1	1.00	ND	7.66	ND
METHYLENE CHLORIDE	75-09-2	1.00	ND	3.47	ND
TRANS-1,2-DICHLOROETHENE	156-60-5	1.00	ND	3.96	ND
1,1-DICHLOROETHANE	75-34-3	1.00	ND	4.05	ND
CIS-1,2-DICHLOROETHENE	156-59-2	1.00	ND	3.97	ND
CHLOROFORM	67-66-3	1.00	ND	4.88	ND
1,1,1-TRICHLOROETHANE	71-55-6	1.00	ND	5.46	ND
CARBON TETRACHLORIDE	56-23-5	1.00	ND	6.29	ND
1,2-DICHLOROETHANE	107-06-2	1.00	ND	4.05	ND
BENZENE	71-43-2	1.00	ND	3.19	ND
TRICHLOROETHENE	79-01-6	1.00	ND	5.37	ND
1,2-DICHLOROPROPANE	78-87-5	1.00	ND	4.62	ND
TRANS-1,3-DICHLOROPROPENE	10061-02-6	1.00	ND	4.54	ND
TOLUENE	108-88-3	1.00	ND	3.77	ND
CIS-1,3-DICHLOROPROPENE	10061-01-5	1.00	ND	4.54	ND
1,1,2-TRICHLOROETHANE	79-00-5	1.00	ND	5.46	ND
TETRACHLOROETHENE	127-18-4	1.00	ND	6.78	ND
1,2-DIBROMOETHANE	106-93-4	1.00	ND	7.68	ND
CHLOROBENZENE	108-90-7	1.00	ND	4.60	ND
ETHYLBENZENE	100-41-4	1.00	ND	4.34	ND
XYLENE (M+P)	1330-20-7	1.00	ND	4.34	ND
XYLENE (O)	95-47-6	1.00	ND	4.34	ND
STYRENE	100-42-5	1.00	ND	4.26	ND
1,1,2,2-TETRACHLOROETHANE	79-34-5	1.00	ND	6.87	ND
1,3,5-TRIMETHYLBENZENE	108-67-8	1.00	ND	4.92	ND
1,2,4-TRIMETHYLBENZENE	95-63-6	1.00	ND	4.92	ND
1,3-DICHLOROBENZENE	541-73-1	1.00	ND	6.01	ND
1,4-DICHLOROBENZENE	106-46-7	1.00	ND	6.01	ND
1,2-DICHLOROBENZENE	95-50-1	1.00	ND	6.01	ND
1,2,4-TRICHLOROBENZENE	120-82-1	2.00	ND	14.8	ND
HEXACHLOROBUTADIENE	87-68-3	1.00	ND	10.7	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: 9/10/14

K PRIME, INC.
LABORATORY REPORT

K PRIME PROJECT: 9115
CLIENT PROJECT: B20019.15

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

SAMPLE ID: H2-SG-02
LAB NO: 124862
SAMPLE TYPE: AIR
DATE SAMPLED: 09/03/2014
TIME SAMPLED: 10:39
BATCH ID: 090514A1
DATE ANALYZED: 09/06/2014

COMPOUND NAME	CAS NO.	PPB (V/V)		µg/cu. m	
		MRL	SAMPLE CONC	MRL	SAMPLE CONC
DICHLORODIFLUOROMETHANE	75-71-8	1.00	ND	4.95	ND
DICHLOROTETRAFLUOROETHANE	76-14-2	1.00	ND	6.99	ND
CHLOROMETHANE	74-87-3	1.00	ND	2.07	ND
VINYL CHLORIDE	75-01-4	1.00	ND	2.56	ND
BROMOMETHANE	74-83-9	1.00	ND	3.88	ND
CHLOROETHANE	75-00-3	1.00	ND	2.64	ND
TRICHLOROFLUOROMETHANE	75-69-4	1.00	ND	5.62	ND
1,1-DICHLOROETHENE	75-35-4	1.00	ND	3.97	ND
TRICHLOROTRIFLUOROETHANE	76-13-1	1.00	1.17	7.66	8.97
METHYLENE CHLORIDE	75-09-2	1.00	ND	3.47	ND
TRANS-1,2-DICHLOROETHENE	156-60-5	1.00	ND	3.96	ND
1,1-DICHLOROETHANE	75-34-3	1.00	ND	4.05	ND
CIS-1,2-DICHLOROETHENE	156-59-2	1.00	ND	3.97	ND
CHLOROFORM	67-66-3	1.00	12.1	4.88	59.3
1,1,1-TRICHLOROETHANE	71-55-6	1.00	ND	5.46	ND
CARBON TETRACHLORIDE	56-23-5	1.00	50.7	6.29	319
1,2-DICHLOROETHANE	107-06-2	1.00	ND	4.05	ND
BENZENE	71-43-2	1.00	ND	3.19	ND
TRICHLOROETHENE	79-01-6	1.00	16.7	5.37	90.0
1,2-DICHLOROPROPANE	78-87-5	1.00	ND	4.62	ND
TRANS-1,3-DICHLOROPROPENE	10061-02-6	1.00	ND	4.54	ND
TOLUENE	108-88-3	1.00	ND	3.77	ND
CIS-1,3-DICHLOROPROPENE	10061-01-5	1.00	ND	4.54	ND
1,1,2-TRICHLOROETHANE	79-00-5	1.00	ND	5.46	ND
TETRACHLOROETHENE	127-18-4	1.00	27.6	6.78	187
1,2-DIBROMOETHANE	106-93-4	1.00	ND	7.68	ND
CHLOROBENZENE	108-90-7	1.00	ND	4.60	ND
ETHYLBENZENE	100-41-4	1.00	ND	4.34	ND
XYLENE (M+P)	1330-20-7	1.00	ND	4.34	ND
XYLENE (O)	95-47-6	1.00	ND	4.34	ND
STYRENE	100-42-5	1.00	ND	4.26	ND
1,1,2,2-TETRACHLOROETHANE	79-34-5	1.00	ND	6.87	ND
1,3,5-TRIMETHYLBENZENE	108-67-8	1.00	ND	4.92	ND
1,2,4-TRIMETHYLBENZENE	95-63-6	1.00	ND	4.92	ND
1,3-DICHLOROBENZENE	541-73-1	1.00	ND	6.01	ND
1,4-DICHLOROBENZENE	106-46-7	1.00	ND	6.01	ND
1,2-DICHLOROBENZENE	95-50-1	1.00	ND	6.01	ND
1,2,4-TRICHLOROBENZENE	120-82-1	2.00	ND	14.8	ND
HEXACHLOROBUTADIENE	87-68-3	1.00	ND	10.7	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: RML
DATE: 9/10/14

K PRIME, INC.
LABORATORY REPORT

K PRIME PROJECT: 9115
CLIENT PROJECT: B20019.15

METHOD: 1,1,1,2-TETRAFLUOROETHANE
REFERENCE: EPA TO 3

UNITS: PPMV

SAMPLE ID	LAB NO.	SAMPLE TYPE	DATE SAMPLED	BATCH ID	DATE ANALYZED	MRL	SAMPLE CONC
H3-SG-18	124851	AIR	09/03/2014	090514A1	09/05/2014	10.0	ND
H3-SG-17	124852	AIR	09/03/2014	090514A1	09/05/2014	10.0	ND
H3-SG-16	124853	AIR	09/03/2014	090514A1	09/05/2014	10.0	ND
H3-SG-15	124854	AIR	09/03/2014	090514A1	09/05/2014	10.0	22.7
H2-SG-08	124855	AIR	09/03/2014	090514A1	09/05/2014	10.0	ND
H2-SG-06	124856	AIR	09/03/2014	090514A1	09/05/2014	10.0	ND
H3-SG-19	124857	AIR	09/03/2014	090514A1	09/05/2014	10.0	ND
H3-SG-01	124858	AIR	09/03/2014	090514A1	09/05/2014	10.0	ND
H3-SG-05	124859	AIR	09/03/2014	090514A1	09/05/2014	10.0	ND
H3-SG-10	124860	AIR	09/03/2014	090514A1	09/05/2014	10.0	ND
H2-SG-10	124861	AIR	09/03/2014	090514A1	09/05/2014	10.0	ND
H2-SG-02	124862	AIR	09/03/2014	090514A1	09/05/2014	10.0	ND

NOTES:

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

APPROVED BY: *AMC*
DATE: 9/10/14

K PRIME, INC.
LABORATORY METHOD BLANK REPORT

METHOD BLANK ID: B090514A1
SAMPLE TYPE: AIR

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

BATCH ID: 090514A1
DATE ANALYZED: 09/05/2014

COMPOUND NAME	CAS NO.	PPB (V/V)		µg/cu. m	
		MRL	SAMPLE CONC	MRL	SAMPLE CONC
DICHLORODIFLUOROMETHANE	75-71-8	0.500	ND	2.47	ND
DICHLOROTETRAFLUROETHANE	76-14-2	0.500	ND	3.50	ND
CHLOROMETHANE	74-87-3	0.500	ND	1.03	ND
VINYL CHLORIDE	75-01-4	0.500	ND	1.28	ND
BROMOMETHANE	74-83-9	0.500	ND	1.94	ND
CHLOROETHANE	75-00-3	0.500	ND	1.32	ND
TRICHLOROFLUOROMETHANE	75-69-4	0.500	ND	2.81	ND
1,1-DICHLOROETHENE	75-35-4	0.500	ND	1.98	ND
TRICHLOROTRIFLUOROETHANE	76-13-1	0.500	ND	3.83	ND
METHYLENE CHLORIDE	75-09-2	0.500	ND	1.74	ND
TRANS-1,2-DICHLOROETHENE	156-60-5	0.500	ND	1.98	ND
1,1-DICHLOROETHANE	75-34-3	0.500	ND	2.02	ND
CIS-1,2-DICHLOROETHENE	156-59-2	0.500	ND	1.98	ND
CHLOROFORM	67-66-3	0.500	ND	2.44	ND
1,1,1-TRICHLOROETHANE	71-55-6	0.500	ND	2.73	ND
CARBON TETRACHLORIDE	56-23-5	0.500	ND	3.15	ND
1,2-DICHLOROETHANE	107-06-2	0.500	ND	2.02	ND
BENZENE	71-43-2	0.500	ND	1.60	ND
TRICHLOROETHENE	79-01-6	0.500	ND	2.69	ND
1,2-DICHLOROPROPANE	78-87-5	0.500	ND	2.31	ND
TRANS-1,3-DICHLOROPROPENE	10061-02-6	0.500	ND	2.27	ND
TOLUENE	108-88-3	0.500	ND	1.88	ND
CIS-1,3-DICHLOROPROPENE	10061-01-5	0.500	ND	2.27	ND
1,1,2-TRICHLOROETHANE	79-00-5	0.500	ND	2.73	ND
TETRACHLOROETHENE	127-18-4	0.500	ND	3.39	ND
1,2-DIBROMOETHANE	106-93-4	0.500	ND	3.84	ND
CHLOROBENZENE	108-90-7	0.500	ND	2.30	ND
ETHYLBENZENE	100-41-4	0.500	ND	2.17	ND
XYLENE (M+P)	1330-20-7	0.500	ND	2.17	ND
XYLENE (O)	95-47-6	0.500	ND	2.17	ND
STYRENE	100-42-5	0.500	ND	2.13	ND
1,1,2,2-TETRACHLOROETHANE	79-34-5	0.500	ND	3.43	ND
1,3,5-TRIMETHYLBENZENE	108-67-8	0.500	ND	2.46	ND
1,2,4-TRIMETHYLBENZENE	95-63-6	0.500	ND	2.46	ND
1,3-DICHLOROBENZENE	541-73-1	0.500	ND	3.01	ND
1,4-DICHLOROBENZENE	106-46-7	0.500	ND	3.01	ND
1,2-DICHLOROBENZENE	95-50-1	0.500	ND	3.01	ND
1,2,4-TRICHLOROBENZENE	120-82-1	0.500	ND	3.71	ND
HEXACHLOROBUTADIENE	87-68-3	0.500	ND	5.33	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: L090514A1
LAB CONTROL DUPLICATE ID: D090514A1

SAMPLE TYPE: AIR
BATCH ID: 090514A1
DATE ANALYZED: 09/05/2014

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

COMPOUND NAME	SPIKE ADDED (PPB)	REPORTING LIMIT (PPB)	SAMPLE CONC (PPB)	SPIKE CONC (PPB)	SPIKE REC (%)	REC LIMITS (%)
1,1-DICHLOROETHENE	10.0	0.500	ND	8.43	84	60 - 140
TRICHLOROETHENE	10.0	0.500	ND	9.95	100	60 - 140
BENZENE	10.0	0.500	ND	9.74	97	60 - 140
TOLUENE	10.0	0.500	ND	10.9	109	60 - 140
TETRACHLOROETHENE	10.0	0.500	ND	10.0	100	60 - 140

COMPOUND NAME	SPIKE ADDED (PPB)	SPIKE DUP CONC (PPB)	SPIKE DUP REC (%)	RPD (%)	QC LIMITS RPD (%)	REC (%)
1,1-DICHLOROETHENE	10.0	8.96	90	6.1	25	60 - 140
TRICHLOROETHENE	10.0	9.96	100	0.1	25	60 - 140
BENZENE	10.0	9.74	97	0.0	25	60 - 140
TOLUENE	10.0	10.8	108	0.5	25	60 - 140
TETRACHLOROETHENE	10.0	9.88	99	1.2	25	60 - 140

NOTES:

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

K PRIME, INC.
LABORATORY QC REPORT

METHOD BLANK ID: B090514A1
LAB CONTROL SAMPLE ID: L090514A1
LAB CONTROL DUPLICATE ID: D090514A1
BATCH ID: 090514A1

METHOD: 1,1,1,2-TETRAFLUOROETHANE
REFERENCE: EPA TO 3

SAMPLE TYPE: AIR
UNITS: PPM -V/V

METHOD BLANK

COMPOUND NAME	REPORTING LIMIT	SAMPLE CONC
1,1,1,2-TETRAFLUOROETHANE	10.0	ND

ACCURACY (LAB CONTROL SAMPLE)

COMPOUND NAME	EXPECTED CONC	MEASURED CONC	PERCENT RECOVERY	LIMITS (PERCENT)
1,1,1,2-TETRAFLUOROETHANE	10000	8840	88	60-140

PRECISION (LAB CONTROL DUPLICATE)

COMPOUND NAME	SAMPLE RESULT	DUPLICATE RESULT	RPD (PERCENT)	LIMITS (PERCENT)
1,1,1,2-TETRAFLUOROETHANE	8840	9090	2.8	±30

NOTES:

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

CHAIN OF CUSTODY RECORD

CONSULTING ENGINEERS AND SCIENTISTS

1870 Ogden Drive, Burlingame CA 94010

PHONE: 650-292-9100

FAX: 650-552-9012

Project Name: MFA Hangar 2 and 3		Project No.: B20019.15		ANALYSES REQUESTED				EKI COC No.:			
Location: Moffett Field		Sampled By: R Lion, J Sutter, B Castle		Method No. EPA TO 15	Analyte Group VOCs	EPA TO 3 1,1,1,2-Tetrafluoroethane				Revision: _____ (A, B, C, D, etc.)	
Reporting: Electronic Format: None Hard Copy Format: PDF EPA Data Report Level: II Reporting Basis: As Rec'd Please report results to the following: (1) EKI: labs@ekiconsult.com (2) mkking@ekiconsult.com (3) smiller@ekiconsult.com bcastle@ekiconsult.com (4) kgruebel@ekiconsult.com		Laboratory: K Prime, Inc. 3621 Westwind Blvd Santa Rosa, CA 95403 (707) 527-7574								Date: _____ By: _____	
Field Sample Identification	Lab Sample No.	Date	Time	Matrix	Number / Type of Container (Preservative)		PLACE ON HOLD	EXPECTED TURNAROUND TIME	REMARKS / SUMMA ID		
H3-SG-18	124851	9/3/14	0842	Air	1-liter Summa			5-day	SS-910		
H3-SG-17	124852		0824						S-295		
H3-SG-16	124853		0909						SS-909		
H3-SG-15	124854		0919						S-434		
H2-SG-08	124855		1012						S-233		
H2-SG-06	124856		1040						S-238		
H3-SG-19	124857		818						SS-923		
H3-SG-01	124858		841						S-612		
H3-SG-05	124859		903						S-433		
H3-SG-10	124860		926					S-103			
Special Instructions:											
Relinquished by: <i>Brian Castle</i> (Signature/Affiliation)		Date: 9/3/14	Time: 15:15	Received by: <i>Emel (VTC)</i> (Signature/Affiliation or Carrier/Air Bill No.)		Date: 9/3/14 Time: 3:15					
Relinquished by: <i>Emel (VTC)</i> (Signature/Affiliation)		Date: 9/3/14	Time: 18:20	Received by: <i>RW - Cook</i> (Signature/Affiliation)		Date: Time:					
Relinquished by: _____ (Signature/Affiliation)		Date:	Time:	Received by: <i>KPI</i> (Signature/Affiliation)		Date: Time:					

K PRIME, Inc.

CONSULTING ANALYTICAL CHEMISTS

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

TRANSMITTAL

DATE: 9/10/2014

TO: MS. MICHELLE KING
MR. STEVE MILLER
MS. KAREN GRUEBEL
MR. BRUCE CASTLE
ERLER & KALINOWSKI, INC.
1870 OGDEN DRIVE
BURLINGAME, CA 94010

ACCT: 9115
PROJ: B20019.15

Phone: 650-292-9100
Fax: 650-552-9012
Email: labs@ekiconsult.com
mkking@ekiconsult.com
smiller@ekiconsult.com
kgruebel@ekiconsult.com
bcastle@ekiconsult.com

FROM: Richard A. Kage1, Ph.D. *RAM 9/10/2014*
Laboratory Director

SUBJECT: LABORATORY RESULTS FOR YOUR PROJECT B20019.15

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

SAMPLE ID	TYPE	DATE	TIME	KPI LAB #
H3-SHROUD-SG-17	AIR	9/3/2014	08:24	124863
H3-SHROUD-SG-1	AIR	9/3/2014	08:41	124864
H3-SHROUD-SG-5	AIR	9/3/2014	09:03	124865
H3-SHROUD-SG-10	AIR	9/3/2014	09:26	124866
H2-SHROUD-SG-10	AIR	9/3/2014	10:07	124867

The above listed sample group was received on 9/3/2014 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: 9115
CLIENT PROJECT: B20019.15

METHOD: 1,1,1,2-TETRAFLUOROETHANE
REFERENCE: EPA TO 3

UNITS: PPMV

SAMPLE ID	LAB NO.	SAMPLE TYPE	DATE SAMPLED	BATCH ID	DATE ANALYZED	MRL	SAMPLE CONC
H3-SHROUD-SG-17	124863	AIR	09/03/2014	090514A1	09/05/2014	10.0	7380
H3-SHROUD-SG-1	124864	AIR	09/03/2014	090514A1	09/05/2014	10.0	10400
H3-SHROUD-SG-5	124865	AIR	09/03/2014	090514A1	09/05/2014	10.0	13400
H3-SHROUD-SG-10	124866	AIR	09/03/2014	090514A1	09/05/2014	10.0	6220
H2-SHROUD-SG-10	124867	AIR	09/03/2014	090514A1	09/05/2014	10.0	6760

NOTES:

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

APPROVED BY: RMC
DATE: 9/10/14

K PRIME, INC.
LABORATORY QC REPORT

METHOD BLANK ID: B090514A1
LAB CONTROL SAMPLE ID: L090514A1
LAB CONTROL DUPLICATE ID: D090514A1
BATCH ID: 090514A1

METHOD: 1,1,1,2-TETRAFLUOROETHANE
REFERENCE: EPA TO 3

SAMPLE TYPE: AIR
UNITS: PPM -V/V

METHOD BLANK

COMPOUND NAME	REPORTING LIMIT	SAMPLE CONC
1,1,1,2-TETRAFLUOROETHANE	10.0	ND

ACCURACY (LAB CONTROL SAMPLE)

COMPOUND NAME	EXPECTED CONC	MEASURED CONC	PERCENT RECOVERY	LIMITS (PERCENT)
1,1,1,2-TETRAFLUOROETHANE	10000	8840	88	60-140

PRECISION (LAB CONTROL DUPLICATE)

COMPOUND NAME	SAMPLE RESULT	DUPLICATE RESULT	RPD (PERCENT)	LIMITS (PERCENT)
1,1,1,2-TETRAFLUOROETHANE	8840	9090	2.8	±30

NOTES:

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

Shroud

Erler & Kalinowski, Inc.

CHAIN OF CUSTODY RECORD

CONSULTING ENGINEERS AND SCIENTISTS

1870 Ogden Drive, Burlingame CA 94010

PHONE: 650-292-9100

FAX: 650-552-9012

Project Name: MFA Hangar 2 and 3		Project No.: B20019.15		ANALYSES REQUESTED				EKI COG No.:																		
Location: Moffett Field		Sampled By: R Lion, J Sutter, B Castle		<table border="1"> <tr> <td>Method No.</td> <td>EPA TO 3</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td rowspan="2">PLACE ON HOLD</td> </tr> <tr> <td>Analyte Group</td> <td>1,1,1,2-Tetrafluoroethane</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>				Method No.	EPA TO 3							PLACE ON HOLD	Analyte Group	1,1,1,2-Tetrafluoroethane							Revision: _____ (A, B, C, D, etc.)	
Method No.	EPA TO 3											PLACE ON HOLD														
Analyte Group	1,1,1,2-Tetrafluoroethane																									
Reporting: Electronic Format: None Hard Copy Format: PDF EPA Data Report Level: II Reporting Basis: As Rec'd Please report results to the following: (1) EKI: labs@ekiconsult.com (2) mkking@ekiconsult.com (3) smiller@ekiconsult.com bcastle@ekiconsult.com (4) kgruebel@ekiconsult.com		Laboratory: K Prime, Inc. 3621 Westwind Blvd Santa Rosa, CA 95403 (707) 527-7574						Date: _____ By: _____																		
Field Sample Identification	Lab Sample No.	Date	Time	Matrix	Number / Type of Container (Preservative)			EXPECTED TURNAROUND TIME	REMARKS / SUMMA ID																	
H3-Shroud-SG-17	124863	9/3/14	0824	Air	1-liter Summa	X		5-day	S-718																	
H3-Shroud-SG-1	124864		0841			X			S-656																	
H3-Shroud-SG-5	124865		0903			X			S-112																	
H3-Shroud-SG-10	124866		0926			X			S-234																	
H2-Shroud-SG-10	124867		1007			X			SS-918																	
Special Instructions: Please analyze all samples for 1,1,1,2-Tetrafluoroethane using a reporting limit of 10 ppmv.																										
Relinquished by: <u>Bryan Castle</u> (Signature/Affiliation)		Date: 9/3/14	Time: 15:15	Received by: <u>[Signature]</u> (Signature/Affiliation of Carrier/Air Bill No.)																						
Relinquished by: <u>[Signature] (VIC)</u> (Signature/Affiliation)		Date: 9/3/14	Time: 18:20	Received by: <u>[Signature]</u> (Signature/Affiliation)		3.15																				
Relinquished by: _____ (Signature/Affiliation)		Date: _____	Time: _____	Received by: <u>RW-Cools</u> KPI (Signature/Affiliation)																						

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Erler &
Kalinowski,
Inc.

Hangar 3 Indoor Air Investigation

Former Naval Air Station
Moffett Field, California

Prepared by:

Erler & Kalinowski, Inc.
1870 Ogden Drive
Burlingame, California 94010

24 November 2014

24 November 2014

Sallie Lim
Sr. Corporate Counsel
Planetary Ventures, LLC.
1600 Amphitheater Pkwy
Mountain View, CA 94043

Subject: Hangar 3 Indoor Air Investigation
Former Naval Air Station Moffett Field, California
(EKI B20019.15)

Dear Ms. Lim:

Erler & Kalinowski, Inc. ("EKI") has prepared this report to provide the results of EKI's recent indoor investigation at Hangar 3 on the Former Naval Air Station Moffett Field, California.

This report has been prepared for the benefit, use and reliance of Planetary Ventures, LLC. Unless specifically authorized in writing in an agreement acceptable to EKI, use of or reliance on EKI's work product by any other entity is not permitted or authorized. Reliance on or use of EKI's work product by any third party without written authorization by EKI does not make such entity a third party beneficiary of EKI's work product. Any such unauthorized reliance on, modification of, or use of EKI's work product, including any of its information or conclusions, will be at such third party's sole risk.

We are pleased to have the opportunity to work with you on this project. Please call if you have any questions or need further assistance.

Very truly yours,

ERLER & KALINOWSKI, INC.



Karen A. Gruebel, Ph.D.
Project Scientist



Steven G. Miller, P.E.
Project Manager

cc: Zack Foster, Planetary Ventures, LLC
Pamela Andes, Allen Matkins

Hangar 3 Indoor Air Investigation
Former Naval Air Station Moffett Field, California



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Hangar 3 Indoor Air Investigation
Former Naval Air Station Moffett Field, California

ACRONYMS AND ABBREVIATIONS

129 th RQW	129 th Rescue Wing
BAAQMD	Bay Area Air Quality Management District
Cal-EPA	California Environmental Protection Agency
CANG	California Air National Guard
CT	carbon tetrachloride
EKI	Erler & Kalinowski, Inc.
ESL	environmental screening level
Freon 11	trichlorofluoromethane
Freon 113	1,1,2-trichloro-1,2,2-trifluoroethane
HHRA	human health risk assessment
K Prime	K Prime, Inc.
MEW	Middlefield-Ellis-Whisman
mL	milliliters
mL/min	milliliters per minute
NAS	Naval Air Station
NASA	National Aeronautics and Space Administration
PCE	tetrachloroethene
QA/QC	quality assurance/quality control
ROD	Record of Decision
RSL	regional screening level
SIM	selective ion monitoring
SL	screening level
SSVP	sub-slab vapor probe
1,1,1-TCA	1,1,1-trichloroethane
TCE	trichloroethene
1,2,4-TMB	1,2,4-trimethylbenzene
1,3,5-TMP	1,3,5-trimethylbenzene
Turner	Turner Construction Company
U.S. EPA	United States Environmental Protection Agency
VI	vapor intrusion
VOC	volatile organic compound
Water Board	California Regional Water Quality Control Board, San Francisco Bay Region

1. INTRODUCTION

This report presents results from the indoor and outdoor air sampling conducted by Erler & Kalinowski, Inc. (“EKI”) on 22 September 2014 and 23 September 2014 in Hangar 3 located at the Former Naval Air Station (“NAS”) Moffett Field, California (“Site,” Figure 1). EKI conducted this investigation on behalf of Planetary Ventures, LLC to screen indoor air in Hangar 3 for the presence volatile organic compounds (“VOCs”).

During August and September 2014, sub-slab vapor samples were collected from 50 locations within Hangars 2 and 3 to screen for the presence of VOCs in sub-slab vapor beneath the hangars. In Hangar 3, detected sub-slab vapor concentrations of chlorinated VOCs exceeded screening levels (“SLs”) at 31 of the 40 sub-slab vapor probe (“SSVP”) sampling locations. The results from this investigation are presented in the *Hangar 2 and Hangar 3 Sub-Slab Vapor Investigation* (“Sub-Slab Vapor Investigation”) report (EKI, 2014).

Based on the results of the Sub-Slab Vapor Investigation, indoor and outdoor air samples were collected by EKI from within and outside Hangar 3 to screen for the presence of VOCs. Indoor air samples were collected primarily at locations within currently occupied offices and other small rooms that are in use and are in the vicinity of locations where sub-slab vapor concentrations are above sub-slab vapor SLs; two indoor air samples were also collected from within the main deck of Hangar 3. Outdoor air samples were collected outside the northeastern portion of Hangar 3 and outside the southern Hangar 3 entrance. No indoor air samples were collected by EKI at Hangar 2.

Indoor and outdoor air samples were collected on 22 and 23 September 2014. Sampling procedures and analytical results for these samples are presented herein.

2. SAMPLING PROGRAM

The sample collection and analytical procedures described herein were conducted in general accordance with the California Environmental Protection Agency (“Cal-EPA”) Department of Toxic Substances Control’s *Guidance for the Evaluation and Mitigation of Subsurface Vapor Intrusion to Indoor Air (Vapor Intrusion Guidance)* (Cal-EPA, 2011). This investigation did not include pre-sampling tasks such as a building survey, interviews, inspection for floor seams or cracks, or chemical inventory.

Samples collected during the investigation were transported under chain-of-custody protocol to K Prime, Inc. (“K Prime”), of Santa Rosa, California for analysis.

2.1 Sampling Program Rationale and Overview

Indoor air sample locations were primarily selected to assess VOC concentrations in indoor air within currently occupied offices and other small rooms that are in use and are in the vicinity of locations where sub-slab vapor concentrations are above sub-slab vapor SLs (EKI, 2014).

EKI also conducted a walk-through of Hangar 3 and talked with current tenants to determine the frequency with which currently occupied rooms are used. The selected sampling locations are shown on Figures 2. Information describing the sampling locations is provided in Table 1.

On 22 23 September 2014, EKI collected 21 indoor air samples from within Hangar 3 and two outdoor air samples outside of Hangar 3. On 23 September 2014, only 4-hour samples were collected due to access restrictions to the rooms being sampled.

Further discussion of the sampling program is provided in Section 4, along with the analytical results.

2.2 Field Work Preparation

EKI personnel met with Turner Construction Company (“Turner”) staff and California Air National Guard personnel on 18 September 2014 to identify potential indoor air sampling locations.

2.3 General Field Procedures

Indoor and outdoor air samples were collected in pre-cleaned and pre-evacuated individually certified 6-liter SUMMA-passivated stainless steel sample containers equipped with individually certified flow controllers set at flow rate of 80 milliliters per minute (“mL/min”). After connecting the SUMMA canister and flow controller to the sampling tubing, a shut-in leak test of the sampling apparatus was conducted. The time and pre-sampling canister vacuum were recorded, then, after removing the nut from the end of the sampling cane, the sample container inlet valve was opened and the entire sampling assembly was positioned (on a table, chair, etc.) such that the sampling cane inlet was between 4 and 6 feet above ground surface. On an approximately hourly basis, EKI personnel recorded the vacuum remaining in each SUMMA

canister and recorded observations that might impact sampling results (e.g., observation of nearby chemical use by others). After the desired sampling period elapsed (e.g., 8-hours for the 8-hour samples), the inlet valve to the sample canister was closed, the sampling canister disconnected from the flow controller, and a brass cap was securely threaded onto the inlet of the SUMMA canister.

3. LABORATORY ANALYSES

Samples were submitted to K Prime under chain-of-custody protocols. Samples were received at K Prime on 22 and 23 September 2014. Copies of the laboratory analytical reports are included in Appendix A.

3.1 Analytical Methods

Samples sent to K Prime were analyzed using U.S. EPA Method TO-15. To obtain analytical reporting limits below indoor air screening levels, selective ion monitoring (“SIM”) was used. Indoor and outdoor air samples were only analyzed for the VOCs that were detected in the sub-slab vapor samples collected at Hangar 3 (EKI, 2014); these analytes include:

- trichloroethene (“TCE”);
- tetrachloroethene (“PCE”);
- carbon tetrachloride (“CT”);
- chloroform;
- trichlorofluoromethane (“Freon 11”);
- 1,1,2-trichloro-1,2,2-trifluoroethane (“Freon 113”);
- 1,1,1-trichloroethane (“1,1,1-TCA”);
- methylene chloride;
- benzene, toluene, ethylbenzene, and xylenes;
- 1,2,4-trimethylbenzene (“1,2,4-TMB”);
- 1,3,5-trimethylbenzene (“1,3,5-TMB”); and,
- styrene.

3.2 Data Quality

All laboratory QA/QC analytical results were within (a) generally accepted laboratory QA/QC protocols and (b) requirements of the laboratory’s internal quality control procedures. Therefore, the data collected as part of this investigation are considered acceptable and useable for the evaluation of Site conditions as described in this report.

4. SAMPLE ANALYTICAL RESULTS

This section summarizes the laboratory analytical results for the indoor air samples collected inside Hangar 3 and the outdoor air samples collected outside Hangar 3.

For preliminary screening purposes, sample analytical results are compared to indoor air SLs for VOCs. The SLs are based on the lowest of (a) the U.S. EPA Region 9 Regional Screening Level (“RSL”; 2014) for indoor air under an industrial land use scenario, (b) the indoor air screening levels presented in California Environmental Protection Agency’s (“Cal-EPA”) *Human Health Risk Assessment (HHRA) Note Number 3* (Cal-EPA, 2013), (c) the California Regional Water Quality Control Board, San Francisco Bay Region (“Water Board”) Environmental Screening Level (“ESL”) for indoor air, and (d) the indoor air screening values presented in the Middlefield-Ellis-Whisman (“MEW”) 2010 Vapor Intrusion (“VI”) Record of Decision (“ROD”) Amendment (U.S. EPA, 2010).

4.1 Outdoor Air

Two outdoor air samples were collected from outside Hangar 3. The locations of these sampling points are shown on Figure 2 and the analytical results for all detected VOCs in these samples are shown in Table 1. As shown in Table 1, the outdoor air at these locations contained detectable concentrations of VOCs. Detected analytes include:

- PCE;
- CT;
- chloroform;
- Freon 11;
- ethylbenzene;
- toluene; and,
- xylenes.

Concentrations of VOCs in outdoor air did not exceed indoor air SLs with the exception of CT at H3-OA-02 (approximately 150 feet south of Hangar 3). At H3-OA-02, CT was detected at 0.47 $\mu\text{g}/\text{m}^3$, which is higher than its indoor air SL of 0.29 $\mu\text{g}/\text{m}^3$. In the outdoor air samples collected in this investigation, none of the VOCs had analytical reporting limits that were higher than indoor air SLs.

4.2 Indoor Air

Nineteen 8-hour indoor air and two 4-hour indoor air samples were collected in Hangar 3. The locations of these sampling points are shown on Figure 2; analytical results for selected VOCs in these samples are shown in Table 1. As shown in Table 1, indoor air at all of the sampling locations contained detectable concentrations of VOCs. Detected analytes include:

- TCE;
- PCE;
- CT;
- chloroform;
- Freon 11;
- Freon 113;
- 1,1,1-TCA;
- methylene chloride;
- benzene, toluene, ethylbenzene, and xylenes;
- 1,2,4-TMB;
- 1,3,5-TMB; and,
- styrene.

Of these analytes, only benzene and CT concentrations exceeded indoor air SLs.

- benzene (SL = 0.42 ug/m³)
 - Detected above its SL at H3-IA-06 (1.05 ug/m³) located in an equipment storage and work room that opens to the California Air National Guard (“CANG”) 129th Rescue Wing (“129th RQW”) weight room and H3-IA-10 (0.46 ug/m³) located on the main hangar deck.
- CT (SL = 0.29 ug/m³)
 - Detected above its SL at all indoor air sampling locations except H3-IA-20, where CT was not detected above an analytical reporting limit of approximately 0.063 ug/m³. At the locations where CT was detected, concentrations ranged from approximately 0.33 ug/m³ to approximately 0.54 ug/m³ and averaged approximately 0.42 ug/m³.¹

In the indoor air samples collected in this investigation, none of the VOCs had analytical reporting limits that were higher than indoor air SLs.

Based on this limited indoor air assessment and the Sub-Slab Vapor Investigation results (EKI, 2014), no specific subsurface or indoor sources of the CT or benzene were identified. Current and historical operations in Hangar 3 are known to have included the use of solvents and fuels that could contain benzene and CT. Nevertheless, the relatively consistent concentrations of CT observed in indoor air samples, and the detection of CT in one of the outdoor air samples (at a concentration similar to the concentrations observed in the indoor air samples), may indicate that the CT observed in indoor air at Hangar 3 is from a source external to the Site. This hypothesis is supported by the Bay Area Air Quality Management District’s (“BAAQMD”) air monitoring

¹ Due to the relatively uniform concentrations of CT observed in indoor air and its detection in one of the outdoor air samples at a similar concentration (approximately 0.47 ug/m³), EKI requested that K Prime conduct a follow-up review of their analytical data for CT. K Prime conducted this review and confirmed that the reported concentrations for CT were correct.

results for Cupertino² which found that over the course of a one-year period, the annual average concentration of CT in ambient air was approximately 0.64 ug/m³. Further, although CT and benzene were detected sporadically in sub-slab vapor samples, it is unlikely the source of the CT and benzene in indoor air is vapor intrusion. If sub-slab vapor was the source, high concentrations of TCE and PCE would also be detected in indoor consistent with their relatively high sub-slab vapor concentrations.

EKI understands that, on 22 September 2014, the National Aeronautics and Space Administration (“NASA”) collected indoor air samples in Hangar 3. NASA set up SUMMA canisters with 8-hour flow controllers for the collection of 14 indoor air and one outdoor air samples. NASA provided a copy of a preliminary data summary that presented results from the laboratory analyses of these samples. In general, it appears that the NASA sample results for indoor air in Hangar 3 are similar to those collected by EKI as presented in this report.

² The BAAQMD’s Cupertino Air Monitoring station is located at Monte Vista Park and data were collected from this station from September 2010 through the end of August 2011. These data were summarized and analyzed in the BAAQMD’s *Summary and Analysis of Cupertino Air Monitoring Results, Updated May 16, 2012* (BAAQMD, 2012).

5. REFERENCES

- BAAQMD, 2012. *Summary and Analysis of Cupertino Air Monitoring Results, Updated May 16, 2012*, Bat Area Air Quality Management District, May 2012.
[http://www.baaqmd.gov/~media/Files/Engineering/Air%20Toxics%20Programs/Special Reports/Summary%20and%20Analysis%20of%20Cupertino%20Air%20Monitoring%20Revised%205%2016%202012%20Final.ashx?la=en](http://www.baaqmd.gov/~media/Files/Engineering/Air%20Toxics%20Programs/Special%20Reports/Summary%20and%20Analysis%20of%20Cupertino%20Air%20Monitoring%20Revised%205%2016%202012%20Final.ashx?la=en)
- Cal-EPA, 2011. *Guidance for the Evaluation and Mitigation of Subsurface Vapor Intrusion to Indoor Air (Vapor Intrusion Guidance)*, California Environmental Protection Agency, Department of Toxic Substances Control, October 2011.
- Cal-EPA, 2013. *Human Health Risk Assessment (HHRA) Note Number 3*, California Environmental Protection Agency, Department of Toxic Substances Control, Office of Human and Ecological Risk (HERO), 21 May 2013.
- EKI, 2014. *Hangar 2 and Hangar 3 Sub-Slab Vapor Investigation, Former Naval Air Station Moffett Field, California*, Erler & Kalinowski, Inc., 23 September 2014.
- U.S. EPA, 2010. *Record of Decision Amendment for the Vapor Intrusion Pathway, Middlefield-Ellis-Whisman (MEW) Superfund Study Area, Mountain View and Moffett Field, California*, United States Environmental Protection Agency, 16 August 2010.
- U.S. EPA, 2014. *Regional Screening Level (RSL) Industrial Air Supporting Table (TR=1E-6, HQ=1) May 2014*, United States Environmental Protection Agency, May 2014.
http://www.epa.gov/reg3hwmd/risk/human/rb-concentration table/Generic Tables/docs/indair_sl_table_run_MAY2014.pdf
- Water Board, 2013. *Environmental Screening Levels, Interim Final = December 2013*, California Regional Water Quality Control Board, San Francisco Bay Region, December 2013.

TABLE 1
Analytical Data for VOCs in Indoor and Outdoor Air Samples (a)
 Hangar 3, Former NAS Moffett Field, Mountain View, California

Indoor Air Sample ID	Sample Collection Date	Sample Collection Start Time	Sample Collection End Time	Approximate Height of Sample Inlet (feet above floor)	Sample Collection Notes	Analytical Results in ug/m ³ (b) (c)															
						TCE	PCE	Carbon tetrachloride	Chloroform	Freon 113	Freon 11	1,1,1-TCA	Methylene chloride	Benzene	Ethylbenzene	Toluene	m,p-Xylene	o-Xylene	1,2,4-TMB	1,3,5-TMB	Styrene
H3-OA-01	9/22/14	6:51	14:51	4.0	Outdoor Air Sample	<0.0537	0.123	0.128	0.0863	<0.383	1.47	<0.0546	<0.521	<0.319	0.0466	0.215	0.124	0.0455	<0.0492	<0.0492	<0.0426
H3-OA-02	9/22/14	6:57	14:57	4.0	Outdoor Air Sample	<0.0537	0.122	0.466	0.0859	<0.383	1.45	<0.0546	<0.521	<0.319	<0.0434	0.214	0.103	<0.0434	<0.0492	<0.0492	<0.0426
H3-IA-03	9/22/14	7:12	15:12	4.0	Garage door open to outside in morning; odor in room at 10:25, possibly from bleach	<0.0537	0.098	0.407	0.186	<0.383	1.42	<0.0546	<0.521	<0.319	0.0567	0.702	0.167	0.0606	0.0899	<0.0492	0.0541
H3-IA-04	9/22/14	7:14	15:14	4.0	Garage door open to outside in morning; odor in room at 10:39, possibly from bleach	<0.0537	0.0969	0.428	0.200	<0.383	1.40	<0.0546	<0.521	<0.319	0.0711	0.923	0.196	0.0699	0.0885	<0.0492	0.0538
H3-IA-05	9/22/14	7:18	15:16	4.5	Door open to training room; odor in room at 10:37 and 12:03, possibly from bleach	0.126	0.258	0.451	0.197	<0.383	1.42	<0.0546	<0.521	0.373	0.132	1.55	0.283	0.107	0.156	0.0753	0.317
H3-IA-06	9/22/14	7:16	15:16	5.0	Open to weight room and door open to hallway to hangar deck; musty odor in room	0.0598	0.130	0.416	0.186	<0.383	1.38	<0.0546	<0.521	1.05	0.135	1.57	0.339	0.111	0.198	0.061	0.111
H3-IA-07	9/22/14	7:20	15:20	4.0	Odor in room at 10:28, possibly from cleaning supplies	<0.0537	0.0929	0.495	0.134	<0.383	1.54	<0.0546	<0.521	0.33	0.154	2.27	0.435	0.150	0.224	0.0718	0.0866
H3-IA-08	9/22/14	7:26	15:27	6.0	NASA sampler on the floor next to location; slight odor in room at 10:31, possibly from cleaning supplies	0.176	<0.0678	0.367	0.200	0.825	5.34	<0.0546	0.559	0.333	0.146	3.24	0.413	0.160	0.193	0.0600	0.117
H3-IA-09	9/22/14	7:28	15:29	5.0	Odor in room at 10:35, 12:01, and 12:54, possibly from cleaning supplies	0.0770	0.112	0.540	0.204	0.423	3.81	<0.0546	<0.521	<0.319	0.133	1.13	0.332	0.110	0.134	<0.0492	0.0732
H3-IA-10	9/22/14	7:32	15:30	5.0	Hangar deck sample; south hangar door open	<0.0537	<0.0678	0.359	0.0918	<0.383	1.47	<0.0546	<0.521	0.463	0.221	1.45	0.734	0.260	0.221	0.0790	0.0571
H3-IA-11	9/22/14	7:37	15:34	4.0	Two open garage doors to outside; methyl ethyl ketone use in engine shop starting at 10:15	<0.0537	0.0782	0.411	0.0897	<0.383	1.46	<0.0546	<0.521	<0.319	0.0482	11.8	0.120	0.0492	0.0602	<0.0492	0.0627
H3-IA-12	9/22/14	7:39	15:36	4.0	Door open to engine shop; slight odor in room at 12:07, possibly from solvent use nearby	<0.0806	<0.102	0.355	0.0984	<0.575	1.37	<0.0819	<0.782	<0.479	0.108	10.8	0.302	0.110	<0.0737	<0.0737	<0.0639
H3-IA-13	9/22/14	7:40	15:35	6.0	Door open to engine shop; slight solvent odor, possibly from solvent use nearby	<0.0537	<0.0678	0.420	0.0918	<0.383	1.35	<0.0546	<0.521	<0.319	0.0559	10.7	0.158	0.0716	0.239	0.0707	<0.0426
H3-IA-14	9/22/14	7:42	15:37	3.5	NASA sampler on the floor next to location; doors open to engine shop and hallway to hangar deck	<0.0537	<0.0678	0.390	0.0889	<0.383	1.40	<0.0546	<0.521	<0.319	0.0495	10.4	0.136	0.0647	0.0609	<0.0492	<0.0426
H3-IA-15	9/22/14	7:43	15:41	4.0	Door open to engine shop	<0.0537	0.0764	0.427	0.0937	<0.383	1.38	<0.0546	0.524	<0.319	0.247	11.4	0.701	0.217	0.163	0.0556	0.0529
H3-IA-16	9/22/14	7:44	15:39	4.0	Door open to hangar deck	<0.0537	<0.0678	0.449	0.0898	<0.383	1.42	0.137	<0.521	<0.319	0.110	2.57	0.352	0.135	0.157	<0.0492	<0.0426
H3-IA-17	9/22/14	7:50	15:48	4.0	NASA sampler H3-AA-20 on table next to location; door open to hangar deck	<0.0537	0.115	0.331	0.0509	<0.383	0.968	<0.0546	<0.521	<0.319	0.407	0.604	1.40	0.464	<0.0492	<0.0492	0.0820
H3-IA-18	9/22/14	7:54	15:50	4.0	NASA sampler H3-AA-22 on table next to location	<0.0537	<0.0678	0.499	0.108	<0.383	1.68	<0.0546	<0.521	<0.319	0.442	1.02	1.31	0.423	0.139	<0.0492	0.0976
H3-IA-19	9/22/14	7:58	15:52	5.0	Hangar deck sample; south hangar door open; truck parked nearby in afternoon	<0.0537	0.103	0.442	0.100	<0.383	1.44	<0.0546	<0.521	0.410	0.182	0.881	0.559	0.203	0.156	0.0527	0.0547
H3-IA-20	9/22/14	8:02	15:58	5.0	Two open garage doors to outside; methyl ethyl ketone use in engine shop starting at 10:15	<0.0537	0.104	<0.0629	0.0848	<0.383	1.33	<0.0546	<0.521	<0.319	0.0572	3.64	0.157	0.0697	0.131	<0.0492	<0.0426
H3-IA-21	9/22/14	8:09	16:00	5.0	Odor in room at 11:40, possibly from cleaning supplies	0.149	<0.0678	0.348	0.143	0.422	2.44	<0.0546	<0.521	0.322	0.145	2.64	0.422	0.167	0.163	<0.0492	0.0851
H3-IA-22	9/23/14	9:43	13:53	4.5	Doors open to hangar deck and outside; slight odor in room, possibly from painting being conducted nearby	0.201	0.112	0.492	0.0961	<0.383	1.55	<0.0546	0.873	<0.319	0.161	2.60	0.492	0.155	0.0718	<0.0492	<0.0426
H3-IA-23	9/23/14	9:45	13:54	4.0	Doors open to hangar deck and outside	<0.0537	0.112	0.401	0.0977	<0.383	1.54	<0.0546	0.714	<0.319	0.0953	0.559	0.244	0.0838	0.0504	<0.0492	<0.0426
Maximum Detected						0.201	0.258	0.540	0.204	0.825	5.34	0.137	0.873	1.05	0.442	11.8	1.400	0.464	0.239	0.0790	0.317
Indoor Air Screening Levels (d)						3 (e)	2.0	0.29	0.53	130,000	3,100	4,400	12	0.42	4.9	1,300	440	440	31	150	1,400

TABLE 1
Analytical Data for VOCs in Indoor and Outdoor Air Samples (a)
 Hangar 3, Former NAS Moffett Field, Mountain View, California

Abbreviations

NAS: Naval Air Station
 ppmv: parts per million by volume
 VOC: volatile organic compound
 ug/m³: micrograms per cubic meter
 NASA: National Aeronautics and Space Administration

TCE: trichloroethene
 PCE: tetrachloroethene
 Freon 11: Trichlorofluoromethane
 Freon 113: 1,1,2-Trichloro-1,2,2-trifluoroethane

TCA: trichloroethane
 TMB: trimethylbenzene
 U.S. EPA: United States Environmental Protection Agency
 Cal-EPA: California Environmental Protection Agency

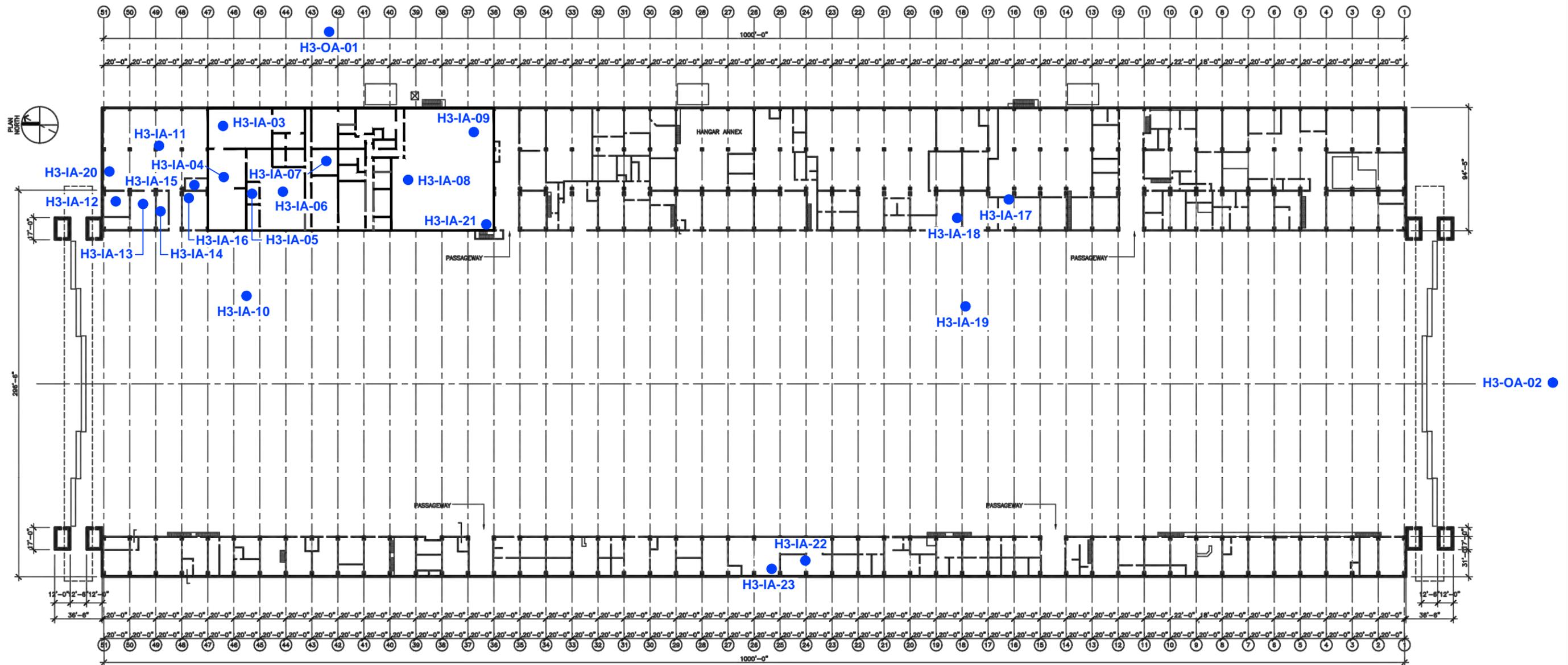
HHRA: Human Health Risk Assessment
 Water Board: San Francisco Bay Regional Water Quality Control Board
 RSLs: Regional Screening Levels
 MEW: Middlefield-Ellis-Whisman

Notes

- (a) Indoor air samples were collected in SUMMA-passivated stainless steel canisters over approximately 8-hours except for H3-IA-22 and H3-IA-23, which were collected over approximately 4-hours. Samples were analyzed for VOCs using U.S. EPA Method TO-15 with selective ion monitoring by K Prime, Inc., Santa Rosa, CA.
- (b) **Bold** type indicates the chemical was detected in the sample above its reporting limit.
 ■ indicates reported concentration exceeds indoor air screening level.
 "<" indicates the compound was not detected in the sample at a concentration above the analytical reporting limit listed after the "<" sign.
- (c) Indoor air samples were only analyzed for the VOCs that were detected in the sub-slab vapor samples collected between 8/27/2014 and 9/3/2014.
- (d) The selected indoor air screening levels are the lowest of the U.S. EPA RSL, Cal-EPA HHRA Note 3 screening level, Water Board ESL, and the MEW 2010 VI ROD Amendment indoor air values.
- (e) On 9 July 2014, the U.S. EPA Region 9 issued interim indoor air response action levels for short-term exposures to trichloroethene. Under a commercial/industrial exposure scenario, the Accelerated Response Action Levels (HQ = 1) are 8 ug/m³ and 7 ug/m³ and the Urgent Response Action Levels (HQ = 3) are 24 ug/m³ and 21 ug/m³ for 8-hour and 10-hour workdays, respectively (U.S. EPA, 2014)

References

- Cal-EPA, 2013. *Human Health Risk Assessment (HHRA) Note Number 3*, California Environmental Protection Agency, Department of Toxic Substances Control, Office of Human and Ecological Risk (HERO), May 21, 2013.
- Water Board, 2013. *Update to Environmental Screening Levels*, California Regional Water Quality Control Board, Region 2, December 23, 2013.
- U.S. EPA, 2010. *Record of Decision Amendment for the Vapor Intrusion Pathway, Middlefield-Ellis-Whisman (MEW) Superfund Study Area, Mountain View and Moffett Field, California*, 16 August 2010.
- U.S. EPA, 2014. (RSLs): *Regional Screening Level (RSL) Summary Table (TR = 10-6; HQ = 1) May 2014*, United States Environmental Protection Agency.



Legend:
 ● H3-IA-10 Indoor Air Sampling Location

Abbreviation:
 NAS = Naval Air Station

- Notes:**
1. All locations are approximate based on field map and truss locations.
 2. Base figure from: Rehabilitation of Hangars 2 and 3 Basis of Design Document, Project Team Draft 3.5, 29 August 2014.
 3. The layout of the rooms between trusses 36 and 47 was modified based on a map showing posted emergency evacuation routes for the 129th Rescue Wing (the current tenant of this area).

Erler & Kalinowski, Inc.
 Indoor and Outdoor Air Sampling Locations in Hangar 3

Former NAS Moffett Field
 Mountain View, CA
 November 2014
 EKI B20019.15

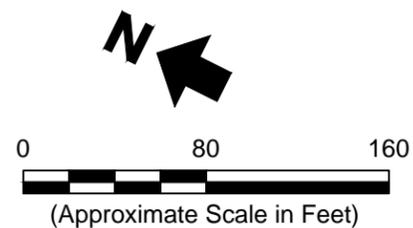


Figure 2

Appendix A

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: 9/25/2014

TO: MR. JOHN MONTGOMERY-BROWN
MS. MICHELLE KING
MR. BRUCE CASTLE
MR. ROGER LION
ERLER & KALINOWSKI, INC.
1870 OGDEN DRIVE
BURLINGAME, CA 94010

ACCT: 9115
PROJ: B20019.15

Phone: 650-292-9100
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jmontgomery-brown@ekiconsult.com
mkking@ekiconsult.com
bcastle@ekiconsult.com
rdlion@ekiconsult.com

FROM: Richard A. Kage1, Ph.D. *RAMC 9/25/2014*
Laboratory Director

SUBJECT: LABORATORY RESULTS FOR YOUR PROJECT B20019.15

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

SAMPLE ID	TYPE	DATE	TIME	KPI LAB #
H3-0A-01	AIR	9/22/2014	14:51	125580
H3-0A-02	AIR	9/22/2014	14:57	125581
H3-1A-03	AIR	9/22/2014	15:12	125582
H3-1A-04	AIR	9/22/2014	15:14	125583
H3-1A-05	AIR	9/22/2014	15:16	125584
H3-1A-06	AIR	9/22/2014	15:14	125585
H3-1A-07	AIR	9/22/2014	15:20	125586
H3-1A-08	AIR	9/22/2014	15:27	125587
H3-1A-09	AIR	9/22/2014	15:29	125588
H3-1A-10	AIR	9/22/2014	15:30	125589
H3-1A-11	AIR	9/22/2014	15:34	125590
H3-1A-12	AIR	9/22/2014	15:36	125591
H3-1A-13	AIR	9/22/2014	15:35	125592
H3-1A-14	AIR	9/22/2014	15:37	125593
H3-1A-15	AIR	9/22/2014	15:41	125594
H3-1A-16	AIR	9/22/2014	15:39	125595
H3-1A-17	AIR	9/22/2014	15:48	125596
H3-1A-18	AIR	9/22/2014	15:50	125597
H3-1A-19	AIR	9/22/2014	15:52	125598
H3-1A-20	AIR	9/22/2014	15:58	125599
H3-1A-21	AIR	9/22/2014	16:00	125600

The above listed sample group was received on 9/22/2014 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: 9115
CLIENT PROJECT: B20019.15

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

SAMPLE ID: H3-0A-01
LAB NO: 125580
SAMPLE TYPE: AIR
DATE SAMPLED: 09/22/2014
TIME SAMPLED: 14:51
BATCH ID: 092314A1
DATE ANALYZED: 09/24/2014

COMPOUND NAME	CAS NO.	PPB (V/V)		µg/cu. m	
		MRL	SAMPLE CONC	MRL	SAMPLE CONC
TRICHLOROFLUOROMETHANE	75-89-4	0.0100	0.262	0.0562	1.47
TRICHLOROTRIFLUOROETHANE	76-13-1	0.0500	ND	0.383	ND
METHYLENE CHLORIDE	75-09-2	0.150	ND	0.521	ND
CHLOROFORM	67-66-3	0.0100	0.0177	0.0488	0.0863
1,1,1-TRICHLOROETHANE	71-55-6	0.0100	ND	0.0546	ND
BENZENE	71-43-2	0.100	ND	0.319	ND
CARBON TETRACHLORIDE	56-23-5	0.0100	0.0203	0.0629	0.128
TRICHLOROETHENE	79-01-6	0.0100	ND	0.0537	ND
TOLUENE	108-88-3	0.0500	0.0571	0.188	0.215
TETRACHLOROETHENE	127-18-4	0.0100	0.0181	0.0678	0.123
ETHYLBENZENE	100-41-4	0.0100	0.0107	0.0434	0.0466
XYLENE (M+P)	1330-20-7	0.0200	0.0285	0.0868	0.124
STYRENE	100-42-5	0.0100	ND	0.0426	ND
XYLENE (O)	95-47-6	0.0100	0.0105	0.0434	0.0455
1,3,5-TRIMETHYLBENZENE	108-67-8	0.0100	ND	0.0492	ND
1,2,4-TRIMETHYLBENZENE	95-63-6	0.0100	ND	0.0492	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:

RAM

9/24/14

K PRIME, INC.
LABORATORY REPORT

K PRIME PROJECT: 9115
 CLIENT PROJECT: B20019.15

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

SAMPLE ID: H3-0A-02
 LAB NO: 125581
 SAMPLE TYPE: AIR
 DATE SAMPLED: 09/22/2014
 TIME SAMPLED: 14:57
 BATCH ID: 092314A1
 DATE ANALYZED: 09/24/2014

COMPOUND NAME	CAS NO.	PPB (V/V)		µg/cu. m	
		MRL	SAMPLE CONC	MRL	SAMPLE CONC
TRICHLOROFLUOROMETHANE	75-69-4	0.0100	0.258	0.0562	1.45
TRICHLOROTRIFLUOROETHANE	76-13-1	0.0500	ND	0.383	ND
METHYLENE CHLORIDE	75-09-2	0.150	ND	0.521	ND
CHLOROFORM	67-66-3	0.0100	0.0176	0.0488	0.0859
1,1,1-TRICHLOROETHANE	71-55-6	0.0100	ND	0.0546	ND
BENZENE	71-43-2	0.100	ND	0.319	ND
CARBON TETRACHLORIDE	56-23-5	0.0100	0.0741	0.0629	0.466
TRICHLOROETHENE	79-01-6	0.0100	ND	0.0537	ND
TOLUENE	108-88-3	0.0500	0.0569	0.188	0.214
TETRACHLOROETHENE	127-18-4	0.0100	0.0180	0.0678	0.122
ETHYLBENZENE	100-41-4	0.0100	ND	0.0434	ND
XYLENE (M+P)	1330-20-7	0.0200	0.0236	0.0868	0.103
STYRENE	100-42-5	0.0100	ND	0.0426	ND
XYLENE (O)	95-47-6	0.0100	ND	0.0434	ND
1,3,5-TRIMETHYLBENZENE	108-67-8	0.0100	ND	0.0492	ND
1,2,4-TRIMETHYLBENZENE	95-63-6	0.0100	ND	0.0492	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: *KMK*
 DATE: *9/24/14*

K PRIME, INC.
LABORATORY REPORT

K PRIME PROJECT: 9115
 CLIENT PROJECT: B20019.15

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

SAMPLE ID: H3-IA-03
 LAB NO: 125582
 SAMPLE TYPE: AIR
 DATE SAMPLED: 09/22/2014
 TIME SAMPLED: 15:12
 BATCH ID: 092314A1
 DATE ANALYZED: 09/24/2014

COMPOUND NAME	CAS NO.	PPB (V/V)		µg/cu. m	
		MRL	SAMPLE CONC	MRL	SAMPLE CONC
TRICHLOROFLUOROMETHANE	75-69-4	0.0100	0.253	0.0562	1.42
TRICHLOROTRIFLUOROETHANE	76-13-1	0.0500	ND	0.383	ND
METHYLENE CHLORIDE	75-09-2	0.150	ND	0.521	ND
CHLOROFORM	67-66-3	0.0100	0.0381	0.0488	0.186
1,1,1-TRICHLOROETHANE	71-55-6	0.0100	ND	0.0546	ND
BENZENE	71-43-2	0.100	ND	0.319	ND
CARBON TETRACHLORIDE	56-23-5	0.0100	0.0647	0.0629	0.407
TRICHLOROETHENE	79-01-6	0.0100	ND	0.0537	ND
TOLUENE	108-88-3	0.0500	0.186	0.188	0.702
TETRACHLOROETHENE	127-18-4	0.0100	0.0145	0.0678	0.0980
ETHYLBENZENE	100-41-4	0.0100	0.0131	0.0434	0.0567
XYLENE (M+P)	1330-20-7	0.0200	0.0384	0.0868	0.167
STYRENE	100-42-5	0.0100	0.0127	0.0426	0.0541
XYLENE (O)	95-47-6	0.0100	0.0140	0.0434	0.0606
1,3,5-TRIMETHYLBENZENE	108-67-8	0.0100	ND	0.0492	ND
1,2,4-TRIMETHYLBENZENE	95-63-6	0.0100	0.0183	0.0492	0.0899

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: AMC
 DATE: 9/24/14

K PRIME, INC.
LABORATORY REPORT

K PRIME PROJECT: 9115
 CLIENT PROJECT: B20019.15

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

SAMPLE ID: H3-IA-04
 LAB NO: 125583
 SAMPLE TYPE: AIR
 DATE SAMPLED: 09/22/2014
 TIME SAMPLED: 15:14
 BATCH ID: 092314A1
 DATE ANALYZED: 09/24/2014

COMPOUND NAME	CAS NO.	PPB (V/V)		µg/cu. m	
		MRL	SAMPLE CONC	MRL	SAMPLE CONC
TRICHLOROFLUOROMETHANE	75-69-4	0.0100	0.250	0.0562	1.40
TRICHLOROTRIFLUOROETHANE	76-13-1	0.0500	ND	0.383	ND
METHYLENE CHLORIDE	75-09-2	0.150	ND	0.521	ND
CHLOROFORM	67-66-3	0.0100	0.0410	0.0488	0.200
1,1,1-TRICHLOROETHANE	71-55-6	0.0100	ND	0.0546	ND
BENZENE	71-43-2	0.100	ND	0.319	ND
CARBON TETRACHLORIDE	56-23-5	0.0100	0.0681	0.0629	0.428
TRICHLOROETHENE	79-01-6	0.0100	ND	0.0537	ND
TOLUENE	108-88-3	0.0500	0.245	0.188	0.923
TETRACHLOROETHENE	127-18-4	0.0100	0.0143	0.0678	0.0969
ETHYLBENZENE	100-41-4	0.0100	0.0164	0.0434	0.0711
XYLENE (M+P)	1330-20-7	0.0200	0.0452	0.0868	0.196
STYRENE	100-42-5	0.0100	0.0126	0.0426	0.0538
XYLENE (O)	95-47-6	0.0100	0.0161	0.0434	0.0699
1,3,5-TRIMETHYLBENZENE	108-67-8	0.0100	ND	0.0492	ND
1,2,4-TRIMETHYLBENZENE	95-63-6	0.0100	0.0180	0.0492	0.0885

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: MAC
 DATE: 9/24/14

K PRIME, INC.
LABORATORY REPORT

K PRIME PROJECT: 9115
CLIENT PROJECT: B20019.15

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

SAMPLE ID: H3-IA-05
LAB NO: 125584
SAMPLE TYPE: AIR
DATE SAMPLED: 09/22/2014
TIME SAMPLED: 15:16
BATCH ID: 092314A1
DATE ANALYZED: 09/24/2014

COMPOUND NAME	CAS NO.	PPB (V/V)		µg/cu. m	
		MRL	SAMPLE CONC	MRL	SAMPLE CONC
TRICHLOROFLUOROMETHANE	75-69-4	0.0100	0.253	0.0562	1.42
TRICHLOROTRIFLUOROETHANE	76-13-1	0.0500	ND	0.383	ND
METHYLENE CHLORIDE	75-09-2	0.150	ND	0.521	ND
CHLOROFORM	67-66-3	0.0100	0.0403	0.0488	0.197
1,1,1-TRICHLOROETHANE	71-55-6	0.0100	ND	0.0546	ND
BENZENE	71-43-2	0.100	0.117	0.319	0.373
CARBON TETRACHLORIDE	56-23-5	0.0100	0.0718	0.0629	0.451
TRICHLOROETHENE	79-01-6	0.0100	0.0234	0.0537	0.126
TOLUENE	108-88-3	0.0500	0.412	0.188	1.55
TETRACHLOROETHENE	127-18-4	0.0100	0.0380	0.0678	0.258
ETHYLBENZENE	100-41-4	0.0100	0.0305	0.0434	0.132
XYLENE (M+P)	1330-20-7	0.0200	0.0653	0.0868	0.283
STYRENE	100-42-5	0.0100	0.0745	0.0426	0.317
XYLENE (O)	95-47-6	0.0100	0.0247	0.0434	0.107
1,3,5-TRIMETHYLBENZENE	108-67-8	0.0100	0.0153	0.0492	0.0753
1,2,4-TRIMETHYLBENZENE	95-63-6	0.0100	0.0318	0.0492	0.156

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
9/24/14

K PRIME, INC.
LABORATORY REPORT

K PRIME PROJECT: 9115
CLIENT PROJECT: B20019.15

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

SAMPLE ID: H3-IA-06
LAB NO: 125585
SAMPLE TYPE: AIR
DATE SAMPLED: 09/22/2014
TIME SAMPLED: 15:14
BATCH ID: 092314A1
DATE ANALYZED: 09/24/2014

COMPOUND NAME	CAS NO.	PPB (V/V)		µg/cu. m	
		MRL	SAMPLE CONC	MRL	SAMPLE CONC
TRICHLOROFLUOROMETHANE	75-69-4	0.0100	0.246	0.0562	1.38
TRICHLOROTRIFLUOROETHANE	76-13-1	0.0500	ND	0.383	ND
METHYLENE CHLORIDE	75-09-2	0.150	ND	0.521	ND
CHLOROFORM	67-66-3	0.0100	0.0380	0.0488	0.186
1,1,1-TRICHLOROETHANE	71-55-6	0.0100	ND	0.0546	ND
BENZENE	71-43-2	0.100	0.330	0.319	1.05
CARBON TETRACHLORIDE	56-23-5	0.0100	0.0660	0.0629	0.416
TRICHLOROETHENE	79-01-6	0.0100	0.0111	0.0537	0.0598
TOLUENE	108-88-3	0.0500	0.417	0.188	1.57
TETRACHLOROETHENE	127-18-4	0.0100	0.0192	0.0678	0.130
ETHYLBENZENE	100-41-4	0.0100	0.0312	0.0434	0.135
XYLENE (M+P)	1330-20-7	0.0200	0.0781	0.0868	0.339
STYRENE	100-42-5	0.0100	0.0261	0.0426	0.111
XYLENE (O)	95-47-6	0.0100	0.0255	0.0434	0.111
1,3,5-TRIMETHYLBENZENE	108-67-8	0.0100	0.0124	0.0492	0.0610
1,2,4-TRIMETHYLBENZENE	95-63-6	0.0100	0.0403	0.0492	0.198

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:

MM

9/24/14

K PRIME, INC.
LABORATORY REPORT

K PRIME PROJECT: 9115
CLIENT PROJECT: B20019.15

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

SAMPLE ID: H3-IA-07
LAB NO: 125586
SAMPLE TYPE: AIR
DATE SAMPLED: 09/22/2014
TIME SAMPLED: 15:20
BATCH ID: 092314A1
DATE ANALYZED: 09/24/2014

COMPOUND NAME	CAS NO.	PPB (V/V)		µg/cu. m	
		MRL	SAMPLE CONC	MRL	SAMPLE CONC
TRICHLOROFLUOROMETHANE	75-69-4	0.0100	0.274	0.0562	1.54
TRICHLOROTRIFLUOROETHANE	76-13-1	0.0500	ND	0.383	ND
METHYLENE CHLORIDE	75-09-2	0.150	ND	0.521	ND
CHLOROFORM	67-66-3	0.0100	0.0275	0.0488	0.134
1,1,1-TRICHLOROETHANE	71-55-6	0.0100	ND	0.0546	ND
BENZENE	71-43-2	0.100	0.103	0.319	0.33
CARBON TETRACHLORIDE	56-23-5	0.0100	0.0787	0.0629	0.495
TRICHLOROETHENE	79-01-6	0.0100	ND	0.0537	ND
TOLUENE	108-88-3	0.0500	0.602	0.188	2.27
TETRACHLOROETHENE	127-18-4	0.0100	0.0137	0.0678	0.0929
ETHYLBENZENE	100-41-4	0.0100	0.0356	0.0434	0.154
XYLENE (M+P)	1330-20-7	0.0200	0.100	0.0868	0.435
STYRENE	100-42-5	0.0100	0.0203	0.0426	0.0866
XYLENE (O)	95-47-6	0.0100	0.0345	0.0434	0.150
1,3,5-TRIMETHYLBENZENE	108-67-8	0.0100	0.0146	0.0492	0.0718
1,2,4-TRIMETHYLBENZENE	95-63-6	0.0100	0.0455	0.0492	0.224

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:

AMC
9/24/14

K PRIME, INC.
LABORATORY REPORT

K PRIME PROJECT: 9115
CLIENT PROJECT: B20019.15

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

SAMPLE ID: H3-IA-08
LAB NO: 125587
SAMPLE TYPE: AIR
DATE SAMPLED: 09/22/2014
TIME SAMPLED: 15:27
BATCH ID: 092314A1
DATE ANALYZED: 09/24/2014

COMPOUND NAME	CAS NO.	PPB (V/V)		µg/cu. m	
		MRL	SAMPLE CONC	MRL	SAMPLE CONC
TRICHLOROFLUOROMETHANE	75-69-4	0.0100	0.950	0.0562	5.34
TRICHLOROTRIFLUOROETHANE	76-13-1	0.0500	0.108	0.383	0.825
METHYLENE CHLORIDE	75-09-2	0.150	0.161	0.521	0.559
CHLOROFORM	67-66-3	0.0100	0.0410	0.0488	0.200
1,1,1-TRICHLOROETHANE	71-55-6	0.0100	ND	0.0546	ND
BENZENE	71-43-2	0.100	0.104	0.319	0.333
CARBON TETRACHLORIDE	56-23-5	0.0100	0.0583	0.0629	0.367
TRICHLOROETHENE	79-01-6	0.0100	0.0327	0.0537	0.176
TOLUENE	108-88-3	0.0500	0.861	0.188	3.24
TETRACHLOROETHENE	127-18-4	0.0100	ND	0.0678	ND
ETHYLBENZENE	100-41-4	0.0100	0.0336	0.0434	0.146
XYLENE (M+P)	1330-20-7	0.0200	0.0952	0.0868	0.413
STYRENE	100-42-5	0.0100	0.0276	0.0426	0.117
XYLENE (O)	95-47-6	0.0100	0.0368	0.0434	0.160
1,3,5-TRIMETHYLBENZENE	108-67-8	0.0100	0.0122	0.0492	0.0600
1,2,4-TRIMETHYLBENZENE	95-63-6	0.0100	0.0392	0.0492	0.193

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: JMC
DATE: 9/24/14

K PRIME, INC.
LABORATORY REPORT

K PRIME PROJECT: 9115
CLIENT PROJECT: B20019.15

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

SAMPLE ID: H3-IA-09
LAB NO: 125588
SAMPLE TYPE: AIR
DATE SAMPLED: 09/22/2014
TIME SAMPLED: 15:29
BATCH ID: 092314A1
DATE ANALYZED: 09/24/2014

COMPOUND NAME	CAS NO.	PPB (V/V)		µg/cu. m	
		MRL	SAMPLE CONC	MRL	SAMPLE CONC
TRICHLOROFLUOROMETHANE	75-69-4	0.0100	0.678	0.0562	3.81
TRICHLOROTRIFLUOROETHANE	76-13-1	0.0500	0.0552	0.383	0.423
METHYLENE CHLORIDE	75-09-2	0.150	ND	0.521	ND
CHLOROFORM	67-66-3	0.0100	0.0418	0.0488	0.204
1,1,1-TRICHLOROETHANE	71-55-6	0.0100	ND	0.0546	ND
BENZENE	71-43-2	0.100	ND	0.319	ND
CARBON TETRACHLORIDE	56-23-5	0.0100	0.0859	0.0629	0.540
TRICHLOROETHENE	79-01-6	0.0100	0.0143	0.0537	0.0770
TOLUENE	108-88-3	0.0500	0.299	0.188	1.13
TETRACHLOROETHENE	127-18-4	0.0100	0.0165	0.0678	0.112
ETHYLBENZENE	100-41-4	0.0100	0.0306	0.0434	0.133
XYLENE (M+P)	1330-20-7	0.0200	0.0765	0.0868	0.332
STYRENE	100-42-5	0.0100	0.0172	0.0426	0.0732
XYLENE (O)	95-47-6	0.0100	0.0253	0.0434	0.110
1,3,5-TRIMETHYLBENZENE	108-67-8	0.0100	ND	0.0492	ND
1,2,4-TRIMETHYLBENZENE	95-63-6	0.0100	0.0273	0.0492	0.134

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:

AMC
9/24/14

K PRIME, INC.
LABORATORY REPORT

K PRIME PROJECT: 9115
CLIENT PROJECT: B20019.15

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

SAMPLE ID: H3-1A-14
LAB NO: 125593
SAMPLE TYPE: AIR
DATE SAMPLED: 09/22/2014
TIME SAMPLED: 15:37
BATCH ID: 092314A1
DATE ANALYZED: 09/24/2014

COMPOUND NAME	CAS NO.	PPB (V/V)		µg/cu. m	
		MRL	SAMPLE CONC	MRL	SAMPLE CONC
TRICHLOROFLUOROMETHANE	75-69-4	0.0100	0.249	0.0562	1.40
TRICHLOROTRIFLUOROETHANE	76-13-1	0.0500	ND	0.383	ND
METHYLENE CHLORIDE	75-09-2	0.150	ND	0.521	ND
CHLOROFORM	67-66-3	0.0100	0.0182	0.0488	0.0889
1,1,1-TRICHLOROETHANE	71-55-6	0.0100	ND	0.0546	ND
BENZENE	71-43-2	0.100	ND	0.319	ND
CARBON TETRACHLORIDE	56-23-5	0.0100	0.0620	0.0629	0.390
TRICHLOROETHENE	79-01-6	0.0100	ND	0.0537	ND
TOLUENE	108-88-3	0.0500	3.60	0.188	13.6
TETRACHLOROETHENE	127-18-4	0.0100	ND	0.0678	ND
ETHYLBENZENE	100-41-4	0.0100	0.0114	0.0434	0.0495
XYLENE (M+P)	1330-20-7	0.0200	0.0313	0.0868	0.136
STYRENE	100-42-5	0.0100	ND	0.0426	ND
XYLENE (O)	95-47-6	0.0100	0.0149	0.0434	0.0647
1,3,5-TRIMETHYLBENZENE	108-67-8	0.0100	ND	0.0492	ND
1,2,4-TRIMETHYLBENZENE	95-63-6	0.0100	0.0124	0.0492	0.0609

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).

TOLUENE IS OVER RANGE AND REPRESENTS AN ESTIMATED VALUE

APPROVED BY: _____
DATE: _____

MHC
9/24/14

K PRIME, INC.
LABORATORY REPORT

K PRIME PROJECT: 9115
CLIENT PROJECT: B20019.15

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

SAMPLE ID: H3-IA-15
LAB NO: 125594
SAMPLE TYPE: AIR
DATE SAMPLED: 09/22/2014
TIME SAMPLED: 15:41
BATCH ID: 092314A1
DATE ANALYZED: 09/24/2014

COMPOUND NAME	CAS NO.	PPB (V/V)		µg/cu. m	
		MRL	SAMPLE CONC	MRL	SAMPLE CONC
TRICHLOROFLUOROMETHANE	75-69-4	0.0100	0.245	0.0562	1.38
TRICHLOROTRIFLUOROETHANE	76-13-1	0.0500	ND	0.383	ND
METHYLENE CHLORIDE	75-09-2	0.150	0.151	0.521	0.524
CHLOROFORM	67-66-3	0.0100	0.0192	0.0488	0.0937
1,1,1-TRICHLOROETHANE	71-55-6	0.0100	ND	0.0546	ND
BENZENE	71-43-2	0.100	ND	0.319	ND
CARBON TETRACHLORIDE	56-23-5	0.0100	0.0679	0.0629	0.427
TRICHLOROETHENE	79-01-6	0.0100	ND	0.0537	ND
TOLUENE	108-88-3	0.0500	3.95	0.188	14.9
TETRACHLOROETHENE	127-18-4	0.0100	0.0113	0.0678	0.0764
ETHYLBENZENE	100-41-4	0.0100	0.0569	0.0434	0.247
XYLENE (M+P)	1330-20-7	0.0200	0.161	0.0868	0.701
STYRENE	100-42-5	0.0100	0.0124	0.0426	0.0529
XYLENE (O)	95-47-6	0.0100	0.0500	0.0434	0.217
1,3,5-TRIMETHYLBENZENE	108-67-8	0.0100	0.0113	0.0492	0.0556
1,2,4-TRIMETHYLBENZENE	95-63-6	0.0100	0.0332	0.0492	0.163

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).

TOLUENE IS OVER RANGE AND REPRESENTS AN ESTIMATED VALUE

APPROVED BY: RMK
DATE: 9/25/14

K PRIME, INC.
LABORATORY REPORT

K PRIME PROJECT: 9115
CLIENT PROJECT: B20019.15

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

SAMPLE ID: H3-IA-16
LAB NO: 125595
SAMPLE TYPE: AIR
DATE SAMPLED: 09/22/2014
TIME SAMPLED: 15:39
BATCH ID: 092314A1
DATE ANALYZED: 09/24/2014

COMPOUND NAME	CAS NO.	PPB (V/V)		µg/cu. m	
		MRL	SAMPLE CONC	MRL	SAMPLE CONC
TRICHLOROFLUOROMETHANE	75-69-4	0.0100	0.252	0.0562	1.42
TRICHLOROTRIFLUOROETHANE	76-13-1	0.0500	ND	0.383	ND
METHYLENE CHLORIDE	75-09-2	0.150	ND	0.521	ND
CHLOROFORM	67-66-3	0.0100	0.0184	0.0488	0.0898
1,1,1-TRICHLOROETHANE	71-55-6	0.0100	0.0251	0.0546	0.137
BENZENE	71-43-2	0.100	ND	0.319	ND
CARBON TETRACHLORIDE	56-23-5	0.0100	0.0713	0.0629	0.449
TRICHLOROETHENE	79-01-6	0.0100	ND	0.0537	ND
TOLUENE	108-88-3	0.0500	0.681	0.188	2.57
TETRACHLOROETHENE	127-18-4	0.0100	ND	0.0678	ND
ETHYLBENZENE	100-41-4	0.0100	0.0252	0.0434	0.110
XYLENE (M+P)	1330-20-7	0.0200	0.0811	0.0868	0.352
STYRENE	100-42-5	0.0100	ND	0.0426	ND
XYLENE (O)	95-47-6	0.0100	0.0311	0.0434	0.135
1,3,5-TRIMETHYLBENZENE	108-67-8	0.0100	ND	0.0492	ND
1,2,4-TRIMETHYLBENZENE	95-63-6	0.0100	0.0319	0.0492	0.157

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: _____

RMK

9/25/14

K PRIME, INC.
LABORATORY REPORT

K PRIME PROJECT: 9115
CLIENT PROJECT: B20019.15

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

SAMPLE ID: H3-IA-18
LAB NO: 125597
SAMPLE TYPE: AIR
DATE SAMPLED: 09/22/2014
TIME SAMPLED: 15:50
BATCH ID: 092314A1
DATE ANALYZED: 09/24/2014

COMPOUND NAME	CAS NO.	PPB (V/V)		µg/cu. m	
		MRL	SAMPLE CONC	MRL	SAMPLE CONC
TRICHLOROFLUOROMETHANE	75-69-4	0.0100	0.299	0.0562	1.68
TRICHLOROTRIFLUOROETHANE	76-13-1	0.0500	ND	0.383	ND
METHYLENE CHLORIDE	75-09-2	0.150	ND	0.521	ND
CHLOROFORM	67-66-3	0.0100	0.0220	0.0488	0.108
1,1,1-TRICHLOROETHANE	71-55-6	0.0100	ND	0.0546	ND
BENZENE	71-43-2	0.100	ND	0.319	ND
CARBON TETRACHLORIDE	56-23-5	0.0100	0.0793	0.0629	0.499
TRICHLOROETHENE	79-01-6	0.0100	ND	0.0537	ND
TOLUENE	108-88-3	0.0500	0.272	0.188	1.02
TETRACHLOROETHENE	127-18-4	0.0100	ND	0.0678	ND
ETHYLBENZENE	100-41-4	0.0100	0.102	0.0434	0.442
XYLENE (M+P)	1330-20-7	0.0200	0.302	0.0868	1.31
STYRENE	100-42-5	0.0100	0.0229	0.0426	0.0976
XYLENE (O)	95-47-6	0.0100	0.0974	0.0434	0.423
1,3,5-TRIMETHYLBENZENE	108-67-8	0.0100	ND	0.0492	ND
1,2,4-TRIMETHYLBENZENE	95-63-6	0.0100	0.0282	0.0492	0.139

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: PAC
DATE: 9/25/14

K PRIME, INC.
LABORATORY REPORT

K PRIME PROJECT: 9115
 CLIENT PROJECT: B20019.15

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

SAMPLE ID: H3-IA-19
 LAB NO: 125598
 SAMPLE TYPE: AIR
 DATE SAMPLED: 09/22/2014
 TIME SAMPLED: 15:52
 BATCH ID: 092314A1
 DATE ANALYZED: 09/24/2014

COMPOUND NAME	CAS NO.	PPB (V/V)		µg/cu. m	
		MRL	SAMPLE CONC	MRL	SAMPLE CONC
TRICHLOROFLUOROMETHANE	75-69-4	0.0100	0.257	0.0562	1.44
TRICHLOROTRIFLUOROETHANE	76-13-1	0.0500	ND	0.383	ND
METHYLENE CHLORIDE	75-09-2	0.150	ND	0.521	ND
CHLOROFORM	67-66-3	0.0100	0.0205	0.0488	0.100
1,1,1-TRICHLOROETHANE	71-55-6	0.0100	ND	0.0546	ND
BENZENE	71-43-2	0.100	0.128	0.319	0.410
CARBON TETRACHLORIDE	56-23-5	0.0100	0.0703	0.0629	0.442
TRICHLOROETHENE	79-01-6	0.0100	ND	0.0537	ND
TOLUENE	108-88-3	0.0500	0.234	0.188	0.881
TETRACHLOROETHENE	127-18-4	0.0100	0.0153	0.0678	0.103
ETHYLBENZENE	100-41-4	0.0100	0.0419	0.0434	0.182
XYLENE (M+P)	1330-20-7	0.0200	0.129	0.0868	0.559
STYRENE	100-42-5	0.0100	0.0128	0.0426	0.0547
XYLENE (O)	95-47-6	0.0100	0.0467	0.0434	0.203
1,3,5-TRIMETHYLBENZENE	108-67-8	0.0100	0.0107	0.0492	0.0527
1,2,4-TRIMETHYLBENZENE	95-63-6	0.0100	0.0317	0.0492	0.156

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: *MMK*
 DATE: 9/25/14

K PRIME, INC.
LABORATORY REPORT

K PRIME PROJECT: 9115
CLIENT PROJECT: B20019.15

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

SAMPLE ID: H3-IA-20
LAB NO: 125599
SAMPLE TYPE: AIR
DATE SAMPLED: 09/22/2014
TIME SAMPLED: 15:58
BATCH ID: 092314A1
DATE ANALYZED: 09/24/2014

COMPOUND NAME	CAS NO.	PPB (V/V)		µg/cu. m	
		MRL	SAMPLE CONC	MRL	SAMPLE CONC
TRICHLOROFUOROMETHANE	75-69-4	0.0100	0.237	0.0562	1.33
TRICHLOROTRIFLUOROETHANE	76-13-1	0.0500	ND	0.383	ND
METHYLENE CHLORIDE	75-09-2	0.150	ND	0.521	ND
CHLOROFORM	67-66-3	0.0100	0.0174	0.0488	0.0848
1,1,1-TRICHLOROETHANE	71-55-6	0.0100	ND	0.0546	ND
BENZENE	71-43-2	0.100	ND	0.319	ND
CARBON TETRACHLORIDE	56-23-5	0.0100	ND	0.0629	ND
TRICHLOROETHENE	79-01-6	0.0100	ND	0.0537	ND
TOLUENE	108-88-3	0.0500	0.966	0.188	3.64
TETRACHLOROETHENE	127-18-4	0.0100	0.0153	0.0678	0.104
ETHYLBENZENE	100-41-4	0.0100	0.0132	0.0434	0.0572
XYLENE (M+P)	1330-20-7	0.0200	0.0362	0.0888	0.157
STYRENE	100-42-5	0.0100	ND	0.0426	ND
XYLENE (O)	95-47-6	0.0100	0.0161	0.0434	0.0697
1,3,5-TRIMETHYLBENZENE	108-67-8	0.0100	ND	0.0492	ND
1,2,4-TRIMETHYLBENZENE	95-63-6	0.0100	0.0266	0.0492	0.131

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: MMK
DATE: 9/25/14

K PRIME, INC.
LABORATORY METHOD BLANK REPORT

METHOD BLANK ID: B092314A1
SAMPLE TYPE: AIR

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

BATCH ID: 092314A1
DATE ANALYZED: 09/23/2014

COMPOUND NAME	CAS NO.	PPB (V/V)		µg/cu. m	
		MRL	SAMPLE CONC	MRL	SAMPLE CONC
TRICHLOROFLUOROMETHANE	75-69-4	0.0100	ND	0.0562	ND
TRICHLOROTRIFLUOROETHANE	76-13-1	0.0500	ND	0.383	ND
METHYLENE CHLORIDE	75-09-2	0.150	ND	0.521	ND
CHLOROFORM	67-66-3	0.0100	ND	0.0488	ND
1,1,1-TRICHLOROETHANE	71-55-6	0.0100	ND	0.0546	ND
BENZENE	71-43-2	0.100	ND	0.319	ND
CARBON TETRACHLORIDE	56-23-5	0.0100	ND	0.0629	ND
TRICHLOROETHENE	79-01-6	0.0100	ND	0.0537	ND
TOLUENE	108-88-3	0.0500	ND	0.188	ND
TETRACHLOROETHENE	127-18-4	0.0100	ND	0.0678	ND
ETHYLBENZENE	100-41-4	0.0100	ND	0.0434	ND
XYLENE (M+P)	1330-20-7	0.0200	ND	0.0668	ND
STYRENE	100-42-5	0.0100	ND	0.0426	ND
XYLENE (O)	95-47-6	0.0100	ND	0.0434	ND
1,3,5-TRIMETHYLBENZENE	108-67-8	0.0100	ND	0.0492	ND
1,2,4-TRIMETHYLBENZENE	95-63-6	0.0100	ND	0.0492	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: L092314A1
 LAB CONTROL DUPLICATE ID: D092314A1

SAMPLE TYPE: AIR
 BATCH ID: 092314A1
 DATE ANALYZED: 09/23/2014

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	0.500	0.010	ND	0.452	90	60 - 140
TRICHLOROETHENE	0.500	0.010	ND	0.343	69	60 - 140
BENZENE	0.500	0.100	ND	0.519	104	60 - 140
TOLUENE	0.500	0.050	ND	0.348	70	60 - 140
TETRACHLOROETHENE	0.500	0.010	ND	0.326	65	60 - 140

COMPOUND NAME	SPIKE ADDED (PPB)	SPIKE DUP CONC (PPB)	SPIKE DUP REC (%)	RPD (%)	RPD (%)	QC LIMITS REC (%)
1,1-DICHLOROETHENE	0.500	0.440	88	2.7	25	60 - 140
TRICHLOROETHENE	0.500	0.336	67	2.1	25	60 - 140
BENZENE	0.500	0.488	98	6.0	25	60 - 140
TOLUENE	0.500	0.333	67	4.3	25	60 - 140
TETRACHLOROETHENE	0.500	0.317	63	2.7	25	60 - 140

NOTES:

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

K PRIME, INC.
LABORATORY METHOD BLANK REPORT

METHOD BLANK ID: B092514A1
SAMPLE TYPE: AIR

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

BATCH ID: 092514A1
DATE ANALYZED: 09/25/2014

COMPOUND NAME	CAS NO.	PPB (V/V)		µg/cu. m	
		MRL	SAMPLE CONC	MRL	SAMPLE CONC
TRICHLOROFLUOROMETHANE	75-69-4	0.0100	ND	0.0562	ND
TRICHLOROTRIFLUOROETHANE	76-13-1	0.0500	ND	0.383	ND
METHYLENE CHLORIDE	75-09-2	0.150	ND	0.521	ND
CHLOROFORM	67-66-3	0.0100	ND	0.0488	ND
1,1,1-TRICHLOROETHANE	71-55-6	0.0100	ND	0.0546	ND
BENZENE	71-43-2	0.100	ND	0.319	ND
CARBON TETRACHLORIDE	56-23-5	0.0100	ND	0.0629	ND
TRICHLOROETHENE	79-01-6	0.0100	ND	0.0537	ND
TOLUENE	108-88-3	0.0500	ND	0.188	ND
TETRACHLOROETHENE	127-18-4	0.0100	ND	0.0678	ND
ETHYLBENZENE	100-41-4	0.0100	ND	0.0434	ND
XYLENE (M+P)	1330-20-7	0.0200	ND	0.0668	ND
STYRENE	100-42-5	0.0100	ND	0.0426	ND
XYLENE (O)	95-47-6	0.0100	ND	0.0434	ND
1,3,5-TRIMETHYLBENZENE	108-67-8	0.0100	ND	0.0492	ND
1,2,4-TRIMETHYLBENZENE	95-63-6	0.0100	ND	0.0492	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: L092514A1
 LAB CONTROL DUPLICATE ID: D092514A1

SAMPLE TYPE: AIR
 BATCH ID: 092514A1
 DATE ANALYZED: 09/25/2014

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	0.500	0.010	ND	0.374	75	60 - 140
TRICHLOROETHENE	0.500	0.010	ND	0.379	76	60 - 140
BENZENE	0.500	0.100	ND	0.413	83	60 - 140
TOLUENE	0.500	0.050	ND	0.325	65	60 - 140
TETRACHLOROETHENE	0.500	0.010	ND	0.336	67	60 - 140

COMPOUND NAME	SPIKE ADDED (PPB)	SPIKE DUP CONC (PPB)	SPIKE DUP REC (%)	RPD (%)	RPD (%)	QC LIMITS REC (%)
1,1-DICHLOROETHENE	0.500	0.420	84	11.4	25	60 - 140
TRICHLOROETHENE	0.500	0.362	72	4.5	25	60 - 140
BENZENE	0.500	0.469	94	12.6	25	60 - 140
TOLUENE	0.500	0.339	68	4.3	25	60 - 140
TETRACHLOROETHENE	0.500	0.322	64	4.2	25	60 - 140

NOTES:

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

CONSULTING ENGINEERS AND SCIENTISTS

1870 Ogden Drive, Burlingame CA, 94010

PHONE: 650-292-9100

FAX: 650-552-9012

Project Name Moffett Field Hanger 2 & 3		Project No. B20019.15		Method No.		Analyte Group		ANALYSES REQUESTED		EPA TO-15		EXPECTED TURNAROUND TIME		EKI COC No.		Revision: (A, B, C, D, etc.) Revision Date:		Remarks/ Summa ID No.	
Reporting: Electronic Format: Hard Copy Format: PDF EPA Data Report Level: II Report results to: mtkking@ekiconsult.com; bcastle@ekiconsult.com; LABS@ekiconsult.com; rdillon@ekiconsult.com		Laboratory: K-Prime Inc. 3261 Westwind Blvd. Santa Rosa, CA 95403 (707) 527-7574 Attention: Rich Kegel		JMB + JS		Start/End Time		Matrix		No./Type of Containers and Preservative		VOCs by SIM (use attached analyte list)		24h		SUMMA / controller A-501/01123		A-666/00394 A-490/0580	
H3-IA-01	125580	2014-09-22	06:57 / 14:51	air	1-ea. 6-L SUMMA	X													
H3-IA-02	125581		06:57 / 14:57	air	1-ea. 6-L SUMMA	X													
H3-IA-03	125582		07:12 / 15:12	air	1-ea. 6-L SUMMA	X													
H3-IA-04	125583		07:14 / 15:14	air	1-ea. 6-L SUMMA	X													
H3-IA-05	125584		07:18 / 15:16	air	1-ea. 6-L SUMMA	X													
H3-IA-06	125585		07:16 / 15:14			X													
H3-IA-07	125586		07:20 / 15:20			X													
H3-IA-08	125587		07:26 / 15:27			X													
H3-IA-09	125588		07:28 / 15:28			X													
H3-IA-10	125589		07:32 / 15:30			X													
H3-IA-11	125590		07:37 / 15:34			X													
H3-IA-12	125591		07:39 / 15:30			X													
H3-IA-13	125592		07:40 / 15:35			X													
H3-IA-14	125593		07:42 / 15:37			X													

Use attached analyte list emailed

Retain/Informed by: [Signature] Date: 2014-09-22 Time: 16:16

Retain/Informed by: [Signature] Date: 9/22/14 Time: 9:20/14

Retain/Informed by: [Signature] Date: 9/22/14 Time: 9:20/14

CONSULTING ENGINEERS AND SCIENTISTS

1870 Ogden Drive, Burlingame CA 94010

PHONE: 650-292-9100

FAX: 650-552-9012

Project Name Moffett Field Hanger 2 & 3		Project No. B20019.15		Sampled By: JMS + JS		Laboratory: K-Prime Inc. 3251 Westwind Blvd. Santa Rosa, CA 95403 (707) 527-7574 Attention: Rich Kegel		Method No.		Analyte Group		ANALYSES REQUESTED		EPA TO-15 VOCs by SIM (use attached analyte list)		EXPECTED TURNAROUND TIME		Revision: (A, B, C, D, etc.) Revision Date:		Remarks/ Summa ID No.	
Field Sample Identification	Lab Sample No.	Date	Start / End Time	Matrix	No. / Type of Containers and Preservative																
H3-IA-15	1255914	2014-09-22	0743 / 1541	air	1-ea. 6-L SUMMA											24h				SUMMA / controller A-201 / 00402	
H3-IA-16	1255915		0744 / 1541	air	1-ea. 6-L SUMMA											24h				A-784 / 00184	
H3-IA-17	1255916		0750 / 1548	air	1-ea. 6-L SUMMA											24h				A-787 / 00803	
H3-IA-18	1255917		0754 / 1550	air	1-ea. 6-L SUMMA											24h				A-803 / 00395	
H3-IA-19	1255918		0758 / 1552	air	1-ea. 6-L SUMMA											24h				A-782 / 00398	
H3-IA-20	1255919		0802 / 1558	air	1-ea. 6-L SUMMA											24h				A-503 / 01125	
H3-IA-21	1256000		0809 / 1600	air	1-ea. 6-L SUMMA											24h				A-720 / 00401	
H3-IA-22																					
H3-IA-23																					
H3-IA-24																					
H3-IA-25																					
H3-IA-26																					
H3-IA-27																					
H3-IA-28																					

Use attached analyte list -> emailed.

Prepared by: <i>Jana N...</i>	Date: 2014-09-22	Time: 1616	Received by: <i>[Signature]</i>	(Signature/Affiliation): <i>[Signature]</i>	Date: 9/22/14	Time: 4:16
Signature/Affiliation: <i>[Signature]</i>	Date: 2014-09-22	Time: 1920	Received by: <i>[Signature]</i>	(Signature/Affiliation): <i>[Signature]</i>	Date: 9/22/14	Time: 1KPI
Signature/Affiliation: <i>[Signature]</i>	Date: 2014-09-22	Time: 1920	Received by: <i>[Signature]</i>	(Signature/Affiliation): <i>[Signature]</i>	Date: 9/22/14	Time: 1KPI

K PRIME, Inc.

CONSULTING ANALYTICAL CHEMISTS

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

TRANSMITTAL

DATE: 9/26/2014

TO: MR. JOHN MONTGOMERY-BROWN
MS. MICHELLE KING
MR. BRUCE CASTLE
MR. ROGER LION
ERLER & KALINOWSKI, INC.
1870 OGDEN DRIVE
BURLINGAME, CA 94010

ACCT: 9115
PROJ: B20019.15

Phone: 650-292-9100
Fax: 650-552-9012
Email: labs@ekiconsult.com
jmontgomery-brown@ekiconsult.com
mkking@ekiconsult.com
bcastle@ekiconsult.com
rdlion@ekiconsult.com

FROM: Richard A. Kagel, Ph.D.
Laboratory Director

*RAK/mch
9/26/2014*

SUBJECT: LABORATORY RESULTS FOR YOUR PROJECT B20019.15

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

SAMPLE ID	TYPE	DATE	TIME	KPI LAB #
H3-IA-11	AIR	9/22/2014	15:34	125590
H3-IA-12	AIR	9/22/2014	15:36	125591
H3-IA-13	AIR	9/22/2014	15:35	125592
H3-IA-14	AIR	9/22/2014	15:37	125593
H3-IA-15	AIR	9/22/2014	15:41	125594

The above listed sample group was received on 9/22/2014 and tested as requested on the chain of custody document.

The enclosed reports provide the results of reanalysis for the samples that were previously reported with estimated results for toluene, due to the overrange concentrations.

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

#N/A
CLIENT PROJECT: B20019.15

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

SAMPLE ID: H3-IA-11
LAB NO: 125590
SAMPLE TYPE: AIR
DATE SAMPLED: 09/22/2014
TIME SAMPLED: 15:34
BATCH ID: 092314A1
DATE ANALYZED: 09/25/2014

COMPOUND NAME	CAS NO.	PPB (V/V)		µg/cu. m	
		MRL	SAMPLE CONC	MRL	SAMPLE CONC
TOLUENE	108-88-3	0.200	3.12	0.754	11.8

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: cb
DATE: 9/26/2014

K PRIME, INC.
LABORATORY REPORT

#N/A
CLIENT PROJECT: B20019.15

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

SAMPLE ID: H3-IA-12
LAB NO: 125591
SAMPLE TYPE: AIR
DATE SAMPLED: 09/22/2014
TIME SAMPLED: 15:36
BATCH ID: 092314A1
DATE ANALYZED: 09/25/2014

COMPOUND NAME	CAS NO.	PPB (V/V)		µg/cu. m	
		MRL	SAMPLE CONC	MRL	SAMPLE CONC
TOLUENE	108-88-3	0.200	2.87	0.754	10.8

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: ch
DATE: 9/26/2014

K PRIME, INC.
LABORATORY REPORT

#N/A
CLIENT PROJECT: B20019.15

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

SAMPLE ID: H3-IA-13
LAB NO: 125592
SAMPLE TYPE: AIR
DATE SAMPLED: 09/22/2014
TIME SAMPLED: 15:35
BATCH ID: 092314A1
DATE ANALYZED: 09/25/2014

COMPOUND NAME	CAS NO.	PPB (V/V)		µg/cu. m	
		MRL	SAMPLE CONC	MRL	SAMPLE CONC
TOLUENE	108-88-3	0.200	2.84	0.754	10.7

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: *ch*
DATE: 9/26/2014

K PRIME, INC.
LABORATORY REPORT

#N/A
CLIENT PROJECT: B20019.15

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

SAMPLE ID: H3-IA-14
LAB NO: 125593
SAMPLE TYPE: AIR
DATE SAMPLED: 09/22/2014
TIME SAMPLED: 15:37
BATCH ID: 092314A1
DATE ANALYZED: 09/25/2014

COMPOUND NAME	CAS NO.	PPB (V/V)		µg/cu. m	
		MRL	SAMPLE CONC	MRL	SAMPLE CONC
TOLUENE	108-88-3	0.200	2.77	0.754	10.4

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: *ch*
DATE: 9/25/2014

K PRIME, INC.
LABORATORY REPORT

#N/A
CLIENT PROJECT: B20019.15

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

SAMPLE ID: H3-IA-15
LAB NO: 125594
SAMPLE TYPE: AIR
DATE SAMPLED: 09/22/2014
TIME SAMPLED: 15:41
BATCH ID: 092314A1
DATE ANALYZED: 09/25/2014

COMPOUND NAME	CAS NO.	PPB (V/V)		µg/cu. m	
		MRL	SAMPLE CONC	MRL	SAMPLE CONC
TOLUENE	108-88-3	0.200	3.02	0.754	11.4

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: *ch*
DATE: 9/26/2014

K PRIME, INC.
LABORATORY METHOD BLANK REPORT

METHOD BLANK ID: B092314A1
SAMPLE TYPE: AIR

BATCH ID: 092314A1
DATE ANALYZED: 09/23/2014

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
TRICHLOROFLUOROMETHANE	75-69-4	0.0100	ND	0.0562	ND
TRICHLOROTRIFLUOROETHANE	76-13-1	0.0500	ND	0.383	ND
METHYLENE CHLORIDE	75-09-2	0.150	ND	0.521	ND
CHLOROFORM	67-66-3	0.0100	ND	0.0488	ND
1,1,1-TRICHLOROETHANE	71-55-6	0.0100	ND	0.0546	ND
BENZENE	71-43-2	0.100	ND	0.319	ND
CARBON TETRACHLORIDE	56-23-5	0.0100	ND	0.0629	ND
TRICHLOROETHENE	79-01-6	0.0100	ND	0.0537	ND
TOLUENE	108-88-3	0.0500	ND	0.188	ND
TETRACHLOROETHENE	127-18-4	0.0100	ND	0.0678	ND
ETHYLBENZENE	100-41-4	0.0100	ND	0.0434	ND
XYLENE (M+P)	1330-20-7	0.0200	ND	0.0868	ND
STYRENE	100-42-5	0.0100	ND	0.0426	ND
XYLENE (O)	95-47-6	0.0100	ND	0.0434	ND
1,3,5-TRIMETHYLBENZENE	108-67-8	0.0100	ND	0.0492	ND
1,2,4-TRIMETHYLBENZENE	95-63-6	0.0100	ND	0.0492	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: L092314A1
 LAB CONTROL DUPLICATE ID: D092314A1

SAMPLE TYPE: AIR
 BATCH ID: 092314A1
 DATE ANALYZED: 09/23/2014

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	0.500	0.010	ND	0.452	90	60 - 140
TRICHLOROETHENE	0.500	0.010	ND	0.343	69	60 - 140
BENZENE	0.500	0.100	ND	0.519	104	60 - 140
TOLUENE	0.500	0.050	ND	0.348	70	60 - 140
TETRACHLOROETHENE	0.500	0.010	ND	0.326	65	60 - 140

COMPOUND NAME	SPIKE ADDED (PPB)	SPIKE DUP CONC (PPB)	SPIKE DUP REC (%)	RPD (%)	RPD (%)	QC LIMITS REC (%)
1,1-DICHLOROETHENE	0.500	0.440	88	2.7	25	60 - 140
TRICHLOROETHENE	0.500	0.336	67	2.1	25	60 - 140
BENZENE	0.500	0.488	98	6.0	25	60 - 140
TOLUENE	0.500	0.333	67	4.3	25	60 - 140
TETRACHLOROETHENE	0.500	0.317	63	2.7	25	60 - 140

NOTES:

NA - NOT APPLICABLE OR AVAILABLE

ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT

K PRIME, INC.
LABORATORY METHOD BLANK REPORT

METHOD BLANK ID: B092514A1
SAMPLE TYPE: AIR

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

BATCH ID: 092514A1
DATE ANALYZED: 09/25/2014

COMPOUND NAME	CAS NO.	PPB (V/V)		µg/cu. m	
		MRL	SAMPLE CONC	MRL	SAMPLE CONC
TRICHLOROFLUOROMETHANE	75-69-4	0.0100	ND	0.0562	ND
TRICHLOROTRIFLUOROETHANE	76-13-1	0.0500	ND	0.383	ND
METHYLENE CHLORIDE	75-09-2	0.150	ND	0.521	ND
CHLOROFORM	67-66-3	0.0100	ND	0.0488	ND
1,1,1-TRICHLOROETHANE	71-55-6	0.0100	ND	0.0546	ND
BENZENE	71-43-2	0.100	ND	0.319	ND
CARBON TETRACHLORIDE	56-23-5	0.0100	ND	0.0629	ND
TRICHLOROETHENE	79-01-6	0.0100	ND	0.0537	ND
TOLUENE	108-88-3	0.0500	ND	0.188	ND
TETRACHLOROETHENE	127-18-4	0.0100	ND	0.0678	ND
ETHYLBENZENE	100-41-4	0.0100	ND	0.0434	ND
XYLENE (M+P)	1330-20-7	0.0200	ND	0.0868	ND
STYRENE	100-42-5	0.0100	ND	0.0426	ND
XYLENE (O)	95-47-6	0.0100	ND	0.0434	ND
1,3,5-TRIMETHYLBENZENE	108-67-8	0.0100	ND	0.0492	ND
1,2,4-TRIMETHYLBENZENE	95-63-6	0.0100	ND	0.0492	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: L092514A1
 LAB CONTROL DUPLICATE ID: D092514A1

SAMPLE TYPE: AIR
 BATCH ID: 092514A1
 DATE ANALYZED: 09/25/2014

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	0.500	0.010	ND	0.374	75	60 - 140
TRICHLOROETHENE	0.500	0.010	ND	0.379	76	60 - 140
BENZENE	0.500	0.100	ND	0.413	83	60 - 140
TOLUENE	0.500	0.050	ND	0.325	65	60 - 140
TETRACHLOROETHENE	0.500	0.010	ND	0.336	67	60 - 140

COMPOUND NAME	SPIKE ADDED (PPB)	SPIKE DUP CONC (PPB)	SPIKE DUP REC (%)	RPD (%)	RPD (%)	QC LIMITS REC (%)
1,1-DICHLOROETHENE	0.500	0.420	84	11.4	25	60 - 140
TRICHLOROETHENE	0.500	0.362	72	4.5	25	60 - 140
BENZENE	0.500	0.469	94	12.6	25	60 - 140
TOLUENE	0.500	0.339	68	4.3	25	60 - 140
TETRACHLOROETHENE	0.500	0.322	64	4.2	25	60 - 140

NOTES:

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

CONSULTING ENGINEERS AND SCIENTISTS

1870 Ogden Drive, Burlingame CA 94010

PHONE: 650-292-9100

FAX: 650-552-9012

Project Name Moffett Field Hanger 2 & 3		Project No. B20019.15		Sampled By: JMB + JS		Laboratory: K-Prime Inc. 3261 Westwind Blvd. Santa Rosa, CA 95403 (707) 527-7574 Attention: Rich Kagel		Method No.		Analyte Group		EPA TO-15 VOCs by SIM (use attached analyte list)		ANALYSES REQUESTED		PLACE ON HOLD		EXPECTED TURNAROUND TIME		Revision: (A, B, C, D, etc.) Revision Date:		Remarks/ Summa ID No.	
Field Sample Identification	Lab Sample No.	Date	Start/End Time	Matrix	No. / Type of Containers and Preservative																		
H3-IA-01	125580	2014-09-22	0657 / 1457	air	1-ea. 6-L SUMMA							X							24h			SUMMA / controller A-501/01123	
H3-IA-02	125581		0712 / 1512	air	1-ea. 6-L SUMMA							X										A-636/00394	
H3-IA-03	125582		0714 / 1514	air	1-ea. 6-L SUMMA							X										A-636/00394	
H3-IA-04	125583		0718 / 1516	air	1-ea. 6-L SUMMA							X										A-425/05505	
H3-IA-05	125584		0716 / 1514	air	1-ea. 6-L SUMMA							X										A-112/05503	
H3-IA-06	125585		0720 / 1520									X										A-702/01119	
H3-IA-07	125586		0726 / 1527									X										A-431/00397	
H3-IA-08	125587		0729 / 1529									X										A-620/00399	
H3-IA-09	125588		0737 / 1534									X										A-811/00392	
H3-IA-10	125589		0737 / 1530									X										A-502/01128	
H3-IA-11	125590		0739 / 1536									X										A-621/00393	
H3-IA-12	125591		0740 / 1535									X										A-105/01126	
H3-IA-13	125592		0742 / 1537									X										A-801/01121	
H3-IA-14	125593											X										A-705/01120	

Use attached analyte list emailed

Retainist/tech by: [Signature] (Signature/Affiliation) from
Date: 2014-09-22
Time: 16:16

Retainist/tech by: [Signature] (Signature/Affiliation) from
Date: 9/22/14
Time: 9:20/14

Retainist/tech by: [Signature] (Signature/Affiliation) from
Date: 9/22/14
Time: 9:20/14

CONSULTING ENGINEERS AND SCIENTISTS

1870 Ogden Drive, Burlingame CA 94010

PHONE: 650-292-9100

FAX: 650-552-9012

Project Name Moffett Field Hanger 2 & 3		Project No. B20019.15		Sampled By: JMS + JS		Laboratory: K-Prime Inc. 3261 Westwind Blvd. Santa Rosa, CA 95403 (707) 527-7574 Attention: Rich Kagef		EPA TO-15 VOCs by SIM (use attached analyte list)		ANALYSES REQUESTED		EKI COC No. 20140922-1	
Field Sample Identification	Lab Sample No.	Date	Start / End Time	Matrix	No. / Type of Containers and Preservative	Method No.	Analyte Group	Method No.	Analyte Group	Method No.	Analyte Group	Method No.	Analyte Group
H3-1A-15	125594	2014-07-07	0743 / 1541	air	1-ea. 6-L SUMMA			X				24h	SUMMA / controller A-201 / 00802
H3-1A-16	125595		0744 / 1539	air	1-ea. 6-L SUMMA			X				24h	A-784 / 00104
H3-1A-17	125596		0750 / 1539	air	1-ea. 6-L SUMMA			X				24h	A-787 / 00803
H3-1A-18	125597		0754 / 1550	air	1-ea. 6-L SUMMA			X				24h	A-803 / 00395
H3-1A-19	125598		0758 / 1552	↓	↓			X				24h	A-782 / 00378
H3-1A-20	125599		0802 / 1558	↓	↓			X				24h	A-503 / 01125
H3-1A-21	125600		0809 / 1600	↓	↓			X				24h	A-720 / 00401
H3-1A-22													
H3-1A-23													
H3-1A-24													
H3-1A-25													
H3-1A-26													
H3-1A-27													
H3-1A-28													

Use attached analyte list → emailed.

Relinquished by: John Mody (Signature/Affiliation) Date: 2014-09-22 Time: 16:16

Received by: [Signature] (Signature/Affiliation) Date: 9/22/14 Time: 19:00

Received by: [Signature] (Signature/Affiliation) Date: 9/22/14 Time: 19:00

Received by: [Signature] (Signature/Affiliation) Date: 9/22/14 Time: 19:00

K PRIME, Inc.

CONSULTING ANALYTICAL CHEMISTS

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

TRANSMITTAL

DATE: 9/25/2014

TO: MS. MICHELLE KING
MR. BRUCE CASTLE
MR. ROGER LION
ERLER & KALINOWSKI, INC.
1870 OGDEN DRIVE
BURLINGAME, CA 94010

ACCT: 9115
PROJ: 820019.15

Phone: 650-292-9100
Fax: 650-552-9012
Email: labs@ekiconsult.com
mking@ekiconsult.com
bcastle@ekiconsult.com
rdlion@ekiconsult.com

FROM: Richard A. Kage1, Ph.D. *AMC 9/25/2014*
Laboratory Director

SUBJECT: LABORATORY RESULTS FOR YOUR PROJECT B20019.15

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

SAMPLE ID	TYPE	DATE	TIME	KPI LAB #
H3-IA-22	AIR	9/23/2014	13:53	125614
H3-IA-23	AIR	9/23/2014	13:54	125615

The above listed sample group was received on 9/23/2014 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: 9115
 CLIENT PROJECT: B20019.15

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

SAMPLE ID: H3-IA-22
 LAB NO: 125614
 SAMPLE TYPE: AIR
 DATE SAMPLED: 09/23/2014
 TIME SAMPLED: 13:53
 BATCH ID: 092514A1
 DATE ANALYZED: 09/25/2014

COMPOUND NAME	CAS NO.	PPB (V/V)		µg/cu. m	
		MRL	SAMPLE CONC	MRL	SAMPLE CONC
TRICHLOROFLUOROMETHANE	75-69-4	0.0100	0.276	0.0562	1.55
TRICHLOROTRIFLUOROETHANE	76-13-1	0.0500	ND	0.383	ND
METHYLENE CHLORIDE	75-09-2	0.150	0.251	0.521	0.873
CHLOROFORM	67-66-3	0.0100	0.0197	0.0488	0.0961
1,1,1-TRICHLOROETHANE	71-55-6	0.0100	ND	0.0546	ND
BENZENE	71-43-2	0.100	ND	0.319	ND
CARBON TETRACHLORIDE	56-23-5	0.0100	0.0781	0.0629	0.492
TRICHLOROETHENE	79-01-6	0.0100	0.0374	0.0537	0.201
TOLUENE	108-88-3	0.0500	0.691	0.188	2.60
TETRACHLOROETHENE	127-18-4	0.0100	0.0165	0.0678	0.112
ETHYLBENZENE	100-41-4	0.0100	0.0370	0.0434	0.161
XYLENE (M+P)	1330-20-7	0.0200	0.113	0.0868	0.492
STYRENE	100-42-5	0.0100	ND	0.0426	ND
XYLENE (O)	95-47-6	0.0100	0.0356	0.0434	0.155
1,3,5-TRIMETHYLBENZENE	108-67-8	0.0100	ND	0.0492	ND
1,2,4-TRIMETHYLBENZENE	95-63-6	0.0100	0.0146	0.0492	0.0718

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: 9/25/14

K PRIME, INC.
LABORATORY REPORT

K PRIME PROJECT: 9115
CLIENT PROJECT: B20019.15

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

SAMPLE ID: H3-IA-23
LAB NO: 125615
SAMPLE TYPE: AIR
DATE SAMPLED: 09/23/2014
TIME SAMPLED: 13:54
BATCH ID: 092514A1
DATE ANALYZED: 09/25/2014

COMPOUND NAME	CAS NO.	PPB (V/V)		µg/cu. m	
		MRL	SAMPLE CONC	MRL	SAMPLE CONC
TRICHLOROFLUOROMETHANE	75-69-4	0.0100	0.274	0.0562	1.54
TRICHLOROTRIFLUOROETHANE	76-13-1	0.0500	ND	0.383	ND
METHYLENE CHLORIDE	75-09-2	0.150	0.206	0.521	0.714
CHLOROFORM	67-66-3	0.0100	0.0200	0.0488	0.0977
1,1,1-TRICHLOROETHANE	71-55-6	0.0100	ND	0.0546	ND
BENZENE	71-43-2	0.100	ND	0.319	ND
CARBON TETRACHLORIDE	56-23-5	0.0100	0.0638	0.0629	0.401
TRICHLOROETHENE	79-01-6	0.0100	ND	0.0537	ND
TOLUENE	108-88-3	0.0500	0.148	0.188	0.559
TETRACHLOROETHENE	127-18-4	0.0100	0.0166	0.0678	0.112
ETHYLBENZENE	100-41-4	0.0100	0.0220	0.0434	0.0953
XYLENE (M+P)	1330-20-7	0.0200	0.0562	0.0868	0.244
STYRENE	100-42-5	0.0100	ND	0.0426	ND
XYLENE (O)	95-47-6	0.0100	0.0193	0.0434	0.0838
1,3,5-TRIMETHYLBENZENE	108-67-8	0.0100	ND	0.0492	ND
1,2,4-TRIMETHYLBENZENE	95-63-6	0.0100	0.0103	0.0492	0.0504

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: MM
DATE: 9/25/14

K PRIME, INC.
LABORATORY METHOD BLANK REPORT

METHOD BLANK ID: B092514A1
SAMPLE TYPE: AIR

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

BATCH ID: 092514A1
DATE ANALYZED: 09/25/2014

COMPOUND NAME	CAS NO.	PPB (V/V)		µg/cu. m	
		MRL	SAMPLE CONC	MRL	SAMPLE CONC
TRICHLOROFLUOROMETHANE	75-69-4	0.0100	ND	0.0562	ND
TRICHLOROTRIFLUOROETHANE	76-13-1	0.0500	ND	0.383	ND
METHYLENE CHLORIDE	75-09-2	0.150	ND	0.521	ND
CHLOROFORM	67-66-3	0.0100	ND	0.0488	ND
1,1,1-TRICHLOROETHANE	71-55-6	0.0100	ND	0.0546	ND
BENZENE	71-43-2	0.100	ND	0.319	ND
CARBON TETRACHLORIDE	56-23-5	0.0100	ND	0.0629	ND
TRICHLOROETHENE	79-01-6	0.0100	ND	0.0537	ND
TOLUENE	108-88-3	0.0500	ND	0.188	ND
TETRACHLOROETHENE	127-18-4	0.0100	ND	0.0678	ND
ETHYLBENZENE	100-41-4	0.0100	ND	0.0434	ND
XYLENE (M+P)	1330-20-7	0.0200	ND	0.0868	ND
STYRENE	100-42-5	0.0100	ND	0.0426	ND
XYLENE (O)	95-47-6	0.0100	ND	0.0434	ND
1,3,5-TRIMETHYLBENZENE	108-67-8	0.0100	ND	0.0492	ND
1,2,4-TRIMETHYLBENZENE	95-63-6	0.0100	ND	0.0492	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: L092514A1
 LAB CONTROL DUPLICATE ID: D092514A1

SAMPLE TYPE: AIR
 BATCH ID: 092514A1
 DATE ANALYZED: 09/25/2014

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	0.500	0.010	ND	0.374	75	60 - 140
TRICHLOROETHENE	0.500	0.010	ND	0.379	76	60 - 140
BENZENE	0.500	0.100	ND	0.413	83	60 - 140
TOLUENE	0.500	0.050	ND	0.325	65	60 - 140
TETRACHLOROETHENE	0.500	0.010	ND	0.336	67	60 - 140

COMPOUND NAME	SPIKE ADDED (PPB)	SPIKE DUP CONC (PPB)	SPIKE DUP REC (%)	RPD (%)	RPD (%)	QC LIMITS REC (%)
1,1-DICHLOROETHENE	0.500	0.420	84	11.4	25	60 - 140
TRICHLOROETHENE	0.500	0.362	72	4.5	25	60 - 140
BENZENE	0.500	0.469	94	12.6	25	60 - 140
TOLUENE	0.500	0.339	68	4.3	25	60 - 140
TETRACHLOROETHENE	0.500	0.322	64	4.2	25	60 - 140

NOTES:

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

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National Aeronautics and
Space Administration
Ames Research Center
Moffett Field, CA 94035-1000



December 17, 2014

Reply to Attn of: JQ:204-15

Ms. Alana Lee
Project Manager
US EPA Region IX
75 Hawthorne St., SFD-7-3
San Francisco, CA 94105

Dear Ms. Lee:

Enclosed is the *Fall 2014 Sampling Results Summary Report for Hangars 2 & 3 Indoor Air Sampling*, at the National Aeronautics and Space Administration Ames Research Center.

Cordially,

A handwritten signature in blue ink that reads "Donald M. Chuck".

Donald M. Chuck
Chief, Environmental Management Division

Enclosure

cc:

DL/202-4/L. Ladwig
DT/204-2/M. Haider
JO/158-1/R. Williams
JQ/204-15/K. Finch
JQ/204-15/L. Pirbazari
T20G-4/J. Lukas
EPA/J. Chesnutt
EPA/G. Ma
RWQCB/E. Wells
CANG/Col. J. Magram
CANG/1st LT. J. Barquero
CANG/MSgt. M Yeihey
Navy/S. Anderson



National Aeronautics and
Space Administration

Ames
ANNIVERSARY



HANGARS 2 & 3 INDOOR AIR SAMPLING

FALL 2014 SAMPLING RESULTS SUMMARY REPORT

**NASA Ames Research Center
Moffett Field, CA**

December 2014



**HANGARS 2 & 3
INDOOR AIR SAMPLING
FALL 2014**

ANALYTICAL RESULTS SUMMARY REPORT

Prepared for:

NASA Ames Research Center
Environmental Management Division
Code JQ
Moffett Field, CA

Prepared by:



Earth Resources Technology Inc.
NASA Ames Research Center
Moffett Field, California 94035-1000

December 2014



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List of Acronyms

EPA	Environmental Protection Agency
ERT	Earth Resources Technology, Inc.
NASA	National Aeronautics and Space Administration
PCE	Tetrachloroethylene
RSLs	Risk Screening Levels
TCE	Trichloroethylene
VOCs	Volatile Organic Compounds



1 Introduction

On behalf of the National Aeronautics and Space Administration (NASA) Ames Research Center, Earth Resources Technology, Inc. (ERT) has prepared this Analytical Results Summary Report for the indoor air sampling conducted in former Naval Air Station Moffett Field Hangars 2 and 3. This sampling task was completed in September and October 2014 in response to sub-slab soil vapor samples collected by others that indicated elevated levels of volatile organic compounds (VOCs) in sub-slab spaces. Indoor air samples were collected as per approved site vapor collection protocols.

The indoor air sampling events included the collection of samples at various Hangar 2 & 3 locations in September, and in October in the Room 242 area in the Hangar 2. A site specific visual inspection of the Room 242 area was also completed in October. Table 1 includes the analytical results for the September sampling round, and Table 2 includes the analytical results for the Room 242 October results (see Attachment 1 for Tables 1 and 2). Figure 1 shows the locations of the September sample collections, while Figure 2 shows the locations of the Hangar 2 Room 242 area sample locations.



2 SAMPLE COLLECTIONS & SITE INSPECTIONS

Indoor air samples were initially collected on September 22, 2014 at 23 select locations in Hangars 2 & 3, and on October 29, 2014 at four (4) locations in the Hangar 2 Room 242 area. Based on historical, current and potential future occupancy of Hangars 2 & 3, sample collection duration was approximately 8 hours for each sample. The September 22 sample locations are shown on Figure 1, while the sampling results are included as Tables 1 and 2 in Attachment 1. Hangar 2 sample location H2-AA-06, located in Room 242, indicated the presence of trichloroethylene (TCE) at 121.48 ug/M³ and tetrachloroethylene (PCE) at 12.832 ug/M³, both above both EPA interim exposure levels and EPA Region 9 Risk Screening Levels (RSLs). Benzene was detected at 2.896 ug/M³ in sample H2-AA-03 slightly above the industrial RSL level, while chloroform was detected slightly above the industrial RSL at 0.756 ug/M³.

Based on the elevated levels of TCE and PCE detected in the Hangar 2 H2-AA-06, Room 242 sample location, a detailed visual inspection was completed of Room 242 area on October 17, 2014. The October 17 inspection observations as noted are included in the following, and photographs of the Room 242 area are included in Attachment 2.

At approximately 9:00 A.M. on October 17, 2014, a site visit was completed, including photographs of the Room 242 area. The following observations were noted during the Hangar 2, Room 242 area site visit:

- The Room 242 area was historically a woman's bathroom area, with Room 242 appearing to be a general area with a large sink (possibly for clothing washing and/or ironing and/or storage/staging), while adjoining Room 275 being the actual bathroom area the contained toilets in stalls near the front of the room and sinks in the rear closer to the outside window. Room 275 also contained an abundant amount of rat, mouse and other feces, so only one picture was taken from the entryway door.
- Room 242 contained a sink, shelving above the sink, an outside window, an old steam radiator and what appeared to be a large water pipe with spigot in the center area near the outside window. This large piping was rusted at the point where it penetrated the floor. There were also numerous electrical outlets along both Room 242 sidewalls, plus six capped hot/cold water pipes next to the sink. Room 242 was approximately 10-feet wide by 30-feet long.
- The existing sink had two (2) spigots at the top of the sink, and a diagonal drain pipe beneath the sink, which was inside the wooden base of the sink cabinet. There was an interior wall drain exposed where the wall board had been removed next to the sink cabinet. This drain is most likely connected to the drain pipes in the adjoining room (#275).



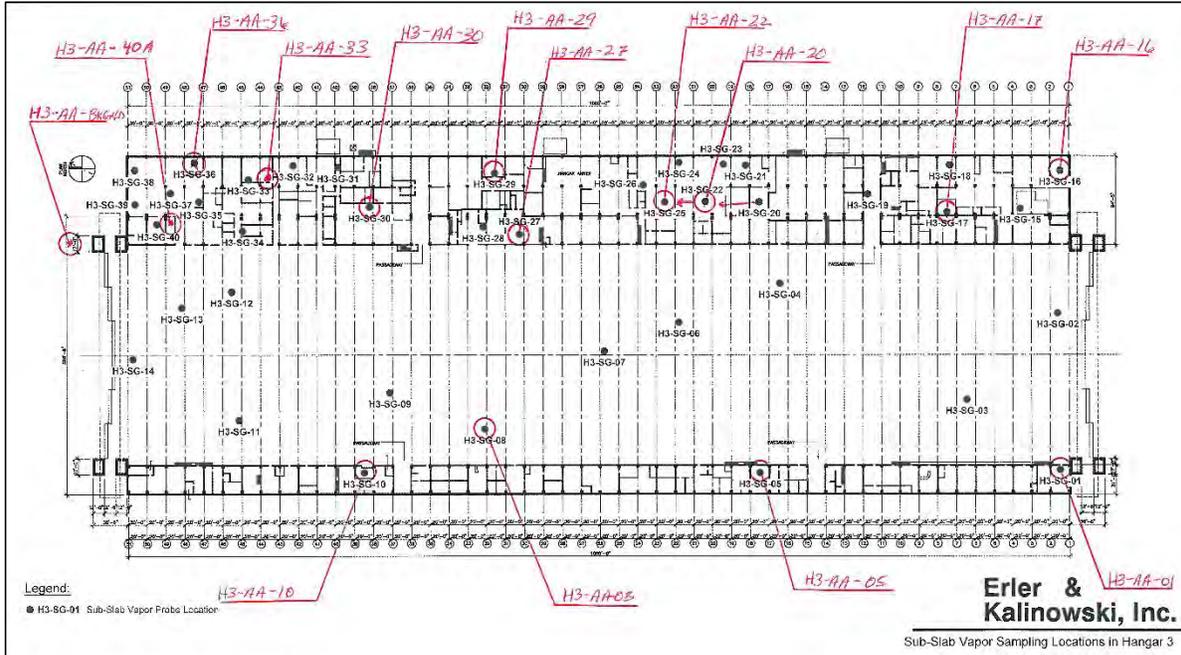
- Room 242 contains old linoleum floor tiles (potentially asbestos based), as does the entry room 229, while the adjoining Room 275 bathroom area contained a tile flooring.
- There was in entry way room area (229) that spanned the front of both 242 and 275, through which you entered from the large interior hangar area proper. There is lettering on the outside wall next to the entrance door area from the hangar area labeled "Women's Head".
- There was also a metal grate cover to an open pass-through window between 242 and 229.
- According to contractors evaluating the Hangar 2 room areas, the Room 242 and adjacent areas had only recently been opened, apparently having been closed and not in use for a number of years.
- Due to the presence of floor coverings in all three room areas, it was not feasible to determine if there were cracks in the concrete subflooring, even where the floor tiles were loose or moved.
- Chemical storage was not noted during the site visit; however, historically, chemicals may have been utilized in Room 242 if the space was used for washing or cleaning of clothing.

Due to the detection of elevated TCE and PCE concentrations present in the Hangar 2, Room 242 H2-AA-06 sample, follow-up additional samples were collected from this room and the adjacent areas on October 29, 2014. The Room 242 sample locations are shown on Figure 2. Three (3) 8+ hour indoor air samples were collected from within the confines of Room 242, while one (1) 8+ hour indoor air sample was collected from the area immediately outside of Room 242. This sample was located at the foot of a stairway located within the larger, open Hangar 2 area. TCE and PCE were non-detect in the October 29th Room 242 samples. Benzene and ethylbenzene were both detected slightly above the industrial RSLs.

The indoor air results for both sampling events are included as Tables 1 and 2 in Attachment 1, Room 242 photographs included as Attachment 2, and the laboratory reports are included as Attachment 3.



Hangar 3



Hangar 2

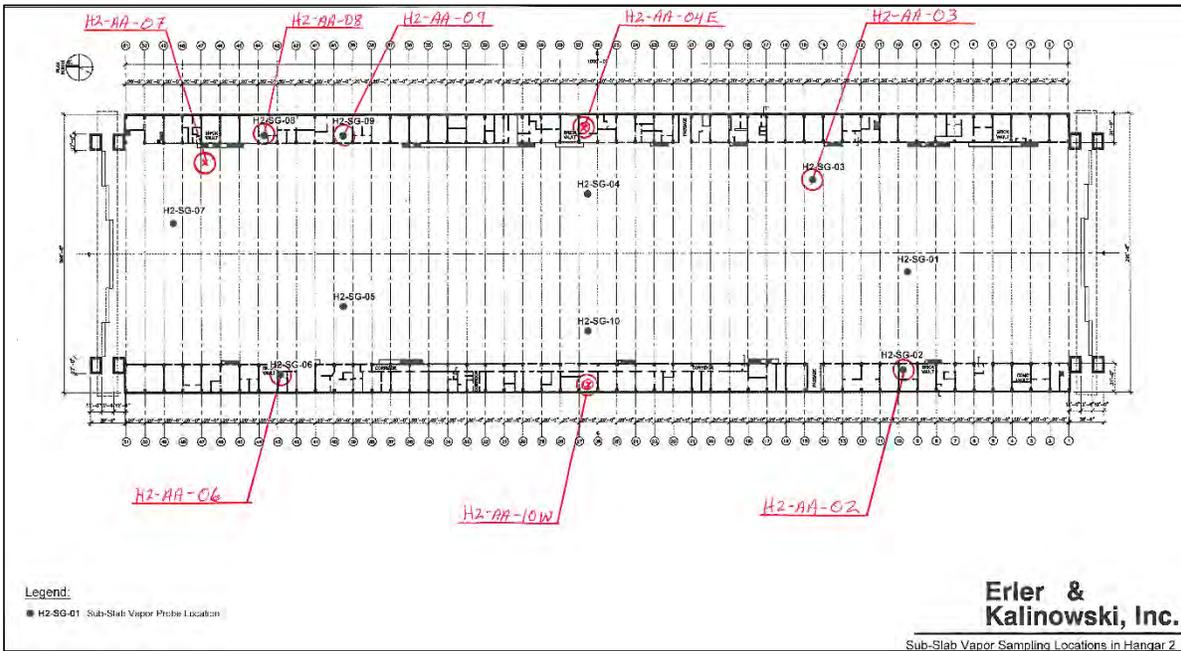


Figure 1
Hangars 2 & 3 Indoor Air Sampling Locations

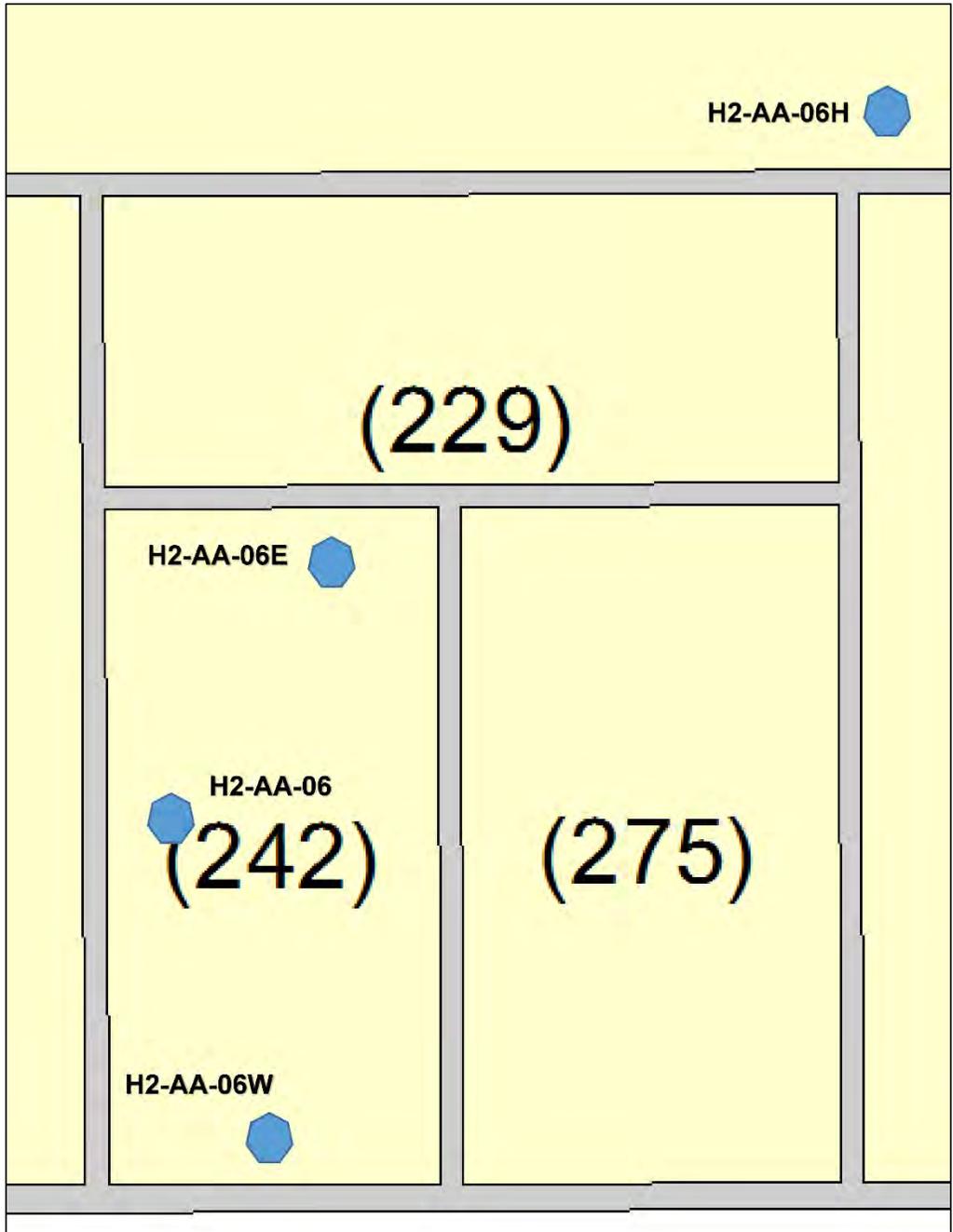


Figure 2
Hangar 2 – Room 242 Indoor Air Sample Locations



3 SUMMARY CONCLUSIONS

Based on the September 22, 2014 indoor air analytical results indicating elevated levels of TCE and PCE, an additional round of indoor air sampling was completed in the Hangar 2 Room 242 area. The results of the follow-up October 29, 2014 round of air sampling for the Room 242 did not indicate the presence of elevated levels of either TCE or PCE as was indicated in the first round of air sampling in Room 242.

One possible explanation for the lack of TCE or PCE in the indoor air during the second round of sampling may be explained by the Room 242 area having been recently opened up post a number of years of non-use and being closed. These rooms (including Room 242) had only recently been opened up by various groups completing detailed inspections of all hangar areas. During the second round of sampling in Room 242, the outside window to the room was noted to have been broken, allowing air to flow in and/or out of the room.



ATTACHMENT 1

INDOOR AIR SAMPLING ANALYTICAL RESULTS

TABLE 1

September 22, 2014

Hangars 2 & 3 Analytical Results

TABLE 2

October 29, 2014

Hangar 2, Room 242 Analytical Results

HANGARs 2 + 3

Indoor Air Sample Results (September)

HANGAR 3															
DATE	LOCATION	Benzene (UG/M3)	CarbTet (UG/M3)	TCE (UG/M3)	Toluene (UG/M3)	PCE (UG/M3)	Xylenes (UG/M3)	cis-1,2- DCE	trans- 1,2-DCE	VC	1,1-DCA	1,1-DCE	Ethyl- benzen	Dichlorom ethane	Chloro form
9/22/2014	H3-BKGND	0.432 j	0.550 j	<0.336	20.548	<0.424	0.901 j	<0.248	<0.248	<0.160	<0.253	<0.248	<0.271	<0.217	<0.305
9/22/2014	H3-AA-40A	0.369 j	<0.393	<0.336	45.119	<0.424	1.404 j	<0.248	<0.248	<0.160	<0.253	<0.248	<0.271	<0.217	<0.305
9/22/2014	H3-AA-36	<0.200	0.533 j	<0.336	23.976	<0.424	<0.271	<0.248	<0.248	<0.160	<0.253	<0.248	<0.271	<0.217	<0.305
9/22/2014	H3-AA-33	0.760 j	<0.393	<0.336	6.376	<0.424	<0.271	<0.248	<0.248	<0.160	<0.253	<0.248	<0.271	0.292 j	0.756 j
9/22/2014	H3-AA-30	0.707 j	<0.393	<0.336	18.934	<0.424	<0.271	<0.248	<0.248	<0.160	<0.253	<0.248	<0.271	<0.217	<0.305
9/22/2014	H3-AA-29	0.532 j	<0.393	0.600 j	25.590	<0.424	0.980 j	<0.248	<0.248	<0.160	<0.253	<0.248	<0.271	<0.217	<0.305
9/22/2014	H3-AA-27	0.555 j	<0.393	<0.336	17.500	<0.424	1.999 j	<0.248	<0.248	<0.160	<0.253	<0.248	0.324 j	<0.217	<0.305
9/22/2014	H3-AA-22	0.844 j	<0.393	<0.336	51.360	<0.424	2.443 j	<0.248	<0.248	<0.160	<0.253	<0.248	<0.271	<0.217	<0.305
9/22/2014	H3-AA-20	0.772 j	<0.393	<0.336	37.794	<0.424	2.200 j	<0.248	<0.248	<0.160	<0.253	<0.248	<0.271	<0.217	<0.305
9/22/2014	H3-AA-17	0.679 j	<0.393	<0.336	36.424	<0.424	0.595 j	<0.248	<0.248	<0.160	<0.253	<0.248	<0.271	<0.217	<0.305
9/22/2014	H3-AA-16	1.213 j	<0.393	0.442 j	12.475	0.888 j	2.112 j	<0.248	<0.248	<0.160	<0.253	<0.248	1.160 j	<0.217	<0.305
9/22/2014	H3-AA-01	0.795 j	0.583 j	0.457 j	19.077	0.431 j	3.843 j	<0.248	<0.248	<0.160	<0.253	<0.248	1.828	1.123 j	<0.305
9/22/2014	H3-AA-05	1.112 j	0.485 j	<0.336	22.238	<0.424	2.435 j	<0.248	<0.248	<0.160	<0.253	<0.248	0.417 j	1.452	<0.305
9/22/2014	H3-AA-08	1.300	0.735 j	<0.336	28.154	<0.424	3.165 j	<0.248	<0.248	<0.160	<0.253	<0.248	1.962	0.885 j	<0.305
9/22/2014	H3-AA-10	0.680 j	0.621 j	<0.336	79.266	<0.424	2.624 j	<0.248	<0.248	<0.160	<0.253	<0.248	0.658 j	1.377	<0.305
EPA interim Region 9 RSLs	2013 2014	na 1.600	na 2.000	5.0 0.880	na 2200.000	2.0 18.000	na 44.000	210	210	2	6 7.700	700 88.000	na 4.900	na 260.000	na 0.530
HANGAR 2															
DATE	LOCATION	Benzene (UG/M3)	CarbTet (UG/M3)	TCE (UG/M3)	Toluene (UG/M3)	PCE (UG/M3)	Xylenes (UG/M3)	cis-1,2- DCE	trans- 1,2-DCE	VC	1,1-DCA	1,1-DCE	Ethyl- benzen	Dichlorom ethane	Chloro form
9/22/2014	H2-AA-07	0.526 j	0.550 j	<0.336	12.631	<0.424	0.459 j	<0.248	<0.248	<0.160	<0.253	<0.248	<0.271	1.441	<0.305
9/22/2014	H2-AA-08	0.874 j	0.575 j	<0.336	48.515	<0.424	1.127 j	<0.248	<0.248	<0.160	<0.253	<0.248	<0.271	2.462	<0.305
9/22/2014	H2-AA-09	0.849 j	0.619 j	<0.336	37.122	<0.424	1.387 j	<0.248	<0.248	<0.160	<0.253	<0.248	<0.271	2.845	<0.305
9/22/2014	H2-AA-04E	0.649 j	0.546 j	<0.336	53.907	<0.424	1.339 j	<0.248	<0.248	<0.160	<0.253	<0.248	<0.271	4.009	<0.305
9/22/2014	H2-AA-03	2.896	0.448 j	<0.336	36.865	<0.424	7.244	<0.248	<0.248	<0.160	<0.253	<0.248	<0.271	2.682	0.524 j
9/22/2014	H2-AA-02	1.322	0.911 j	<0.336	45.645	<0.424	1.015 j	<0.248	<0.248	<0.160	<0.253	<0.248	<0.271	4.632	<0.305
9/22/2014	H2-AA-10W	1.010 j	0.509 j	<0.336	35.734	<0.424	0.369 j	<0.248	<0.248	<0.160	<0.253	<0.248	<0.271	1.567	<0.305
9/22/2014	H2-AA-06	1.342	0.733 j	121.48	30.78	12.832	ND	<0.248	<0.248	<0.160	<0.253	<0.248	<0.271	0.728 j	<0.305
EPA interim Region 9 RSLs	2013 2014	na 1.600	na 2.000	5.0 0.880	na 2200.000	2.0 18.000	na 44.000	210	210	2	6 7.700	700 88.000	na 4.900	na 260.000	na 0.530

Note 1: j = concentration above the detection limit but below the reporting limit. Note 2: Region 9 RSLs are the industrial air limit. Note 3: All units are in UG/M³. Note 4: Bold is above limit.

HANGAR 2
Indoor Air Sample Results
 (Sept. + Oct.)

HANGAR 2 - ROOM 242															
DATE	LOCATION	Benzene (UG/M3)	CarbTet (UG/M3)	TCE (UG/M3)	Toluene (UG/M3)	PCE (UG/M3)	Xylenes (UG/M3)	cis-1,2- DCE	trans- 1,2-DCE	VC	1,1-DCA	1,1-DCE	Ethyl- benzene	Dichloro methane	Chloro form
9/22/2014	H2-AA-06	1.342	0.733 j	121.48	30.78	12.832	ND	<0.248	<0.248	<0.160	<0.253	<0.248	<0.271	0.728 j	<0.305
10/29/2014	H2-AA-06	5.199 j	<2.656	<2.269	10.413	<2.864	4.566 j	<1.674	<1.674	<1.079	<1.710	<1.674	2.213 j	<1.466	<2.062
10/29/2014	H2-AA-06E	4.066 j	<2.578	<2.202	13.577	<2.779	5.018 j	<1.624	<1.624	<1.048	<1.659	<1.624	2.156 j	<1.423	<2.001
10/29/2014	H2-AA-06W	4.081 j	<2.829	<2.147	10.304	<3.050	5.874 j	<1.783	<1.783	<1.150	<1.821	<1.783	2.280 j	<1.562	<2.196
10/29/2014	H2-AA-06H	5.745 j	<2.782	<2.377	19.301	<2.999	11.085	<1.753	<1.753	<1.131	<1.791	<1.753	2.862 j	<1.536	<2.160
EPA interim	2013	na	na	5.0	na	2.0	na	210	210	2	6	700	na	na	na
Region 9 RSLs	2014	1.600	2.000	88.000	2200.000	18.000	44.000				7.700	88.000	4.900	260.000	0.530

Note 1: j = concentration above the detection limit but below the reporting limit. Note 2: Region 9 RSLs are the industrial air limit. Note 3: All units are in UG/M³. Note 4: Bold is above limit.



ATTACHMENT 2

Hangar 2 - Room 242 Photographs



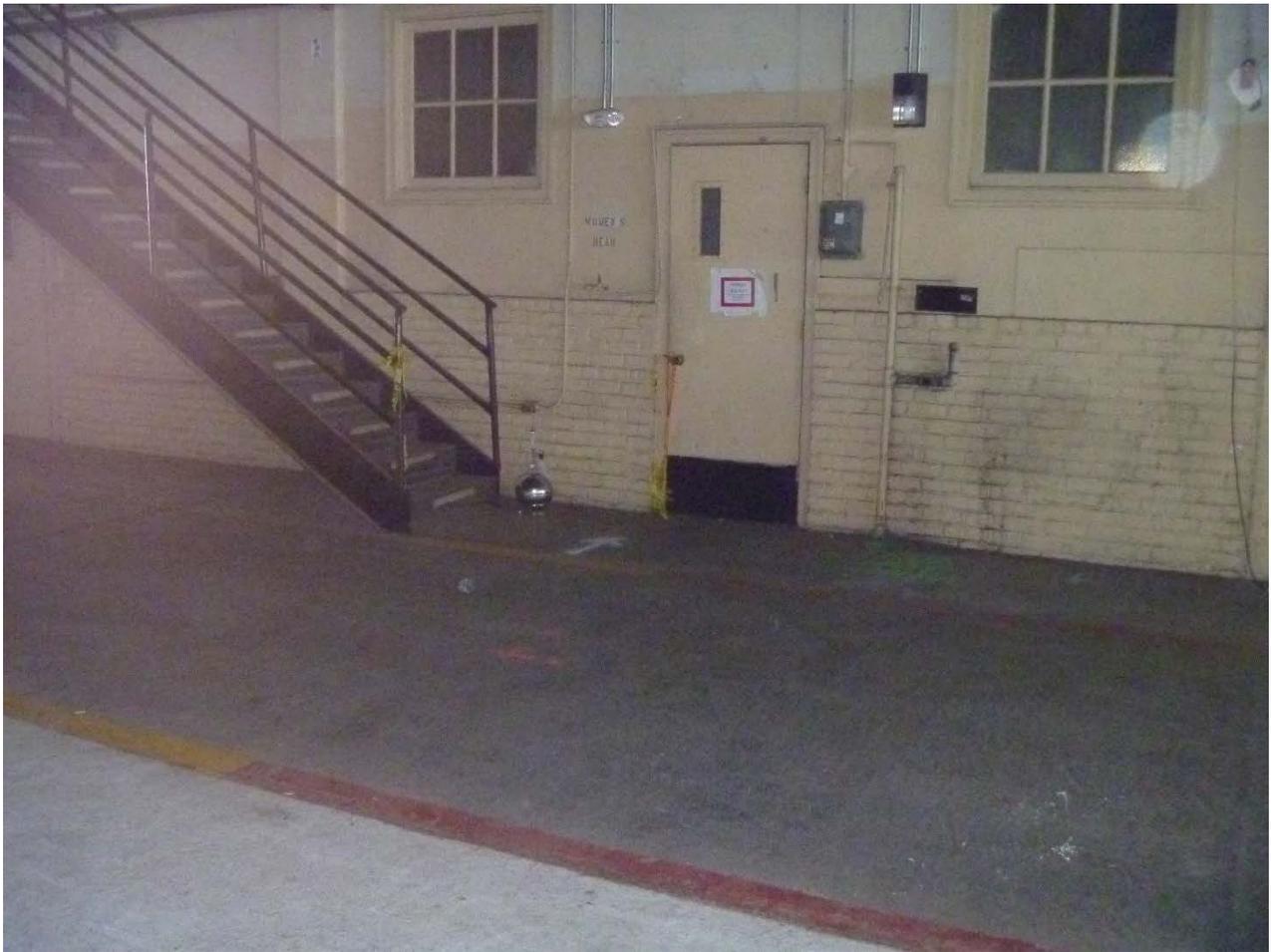
Room 242 doorway.
View looking toward open window area.
Sample locations H2-AA-06/-06E/-06W
(Note silver sample canisters)



Room 242 window.
(Note missing lower right hand corner window pane)



Photograph from Room 242 doorway.
View looking toward open window area.



Photograph of H2 -AA-06H Location



ATTACHMENT 3

Sediment Sampling Laboratory Reports

Laboratory Report

Project Name:

H3 & H2 Ambient

EAS SDG Number: 214502

Client Project Manager: Mack Patterson

Task:

Prepared For:

Earth Resources Technology
M/S T20G-4 Rm 135, NASA Ames Research Ct
Moffett Field CA 94035-1000

Project Number: 16592

Sample Event Date: 9/22/2014

Received Date: 9/24/2014

Report Date: 9/26/2014

Project Number: 3602-707

PO Number: 3602-707

This is the Laboratory Report for the samples in the indicated Sample Delivery Group (SDG). Each sample received in the group is assigned a Laboratory ID number. The combination of the SDG number and the Lab ID number is a unique identifier for the sample.

This Report Contains:

- Laboratory Work Order
- Project Sample Media
- Laboratory Case Narrative and Chain of Custody
- Method Description (when applicable)
- Quality Control Reports
- Analytical Reports

Laboratory Work Order

SDG Number: 214502

Project Number: 16592

Project Manager: Mack Patterson

Received: 9/24/2014

Client: Earth Resource Technology

SAMPLE DESCRIPTION AND ANALYSIS REQUESTED

Client Sample ID	EAS Lab No.	Analysis Requested	Date Sampled
H3-BKGND	214502 1	EPA TO-15 SIM Short List	9/22/2014
H3-AA-40A	214502 2	EPA TO-15 SIM Short List	9/22/2014
H3-AA-36	214502 3	EPA TO-15 SIM Short List	9/22/2014
H3-AA-33	214502 4	EPA TO-15 SIM Short List	9/22/2014
H3-AA-30	214502 5	EPA TO-15 SIM Short List	9/22/2014
H3-AA-29	214502 6	EPA TO-15 SIM Short List	9/22/2014
H3-AA-27	214502 7	EPA TO-15 SIM Short List	9/22/2014
H3-AA-22	214502 8	EPA TO-15 SIM Short List	9/22/2014
H3-AA-20	214502 9	EPA TO-15 SIM Short List	9/22/2014
H3-AA-17	214502 10	EPA TO-15 SIM Short List	9/22/2014
H3-AA-16	214502 11	EPA TO-15 SIM Short List	9/22/2014
H3-AA-01	214502 12	EPA TO-15 SIM Short List	9/22/2014
H3-AA-05	214502 13	EPA TO-15 SIM Short List	9/22/2014
H3-AA-08	214502 14	EPA TO-15 SIM Short List	9/22/2014
H3-AA-10	214502 15	EPA TO-15 SIM Short List	9/22/2014
H2-BKGND	214502 16	NOT ANALYZED	9/22/2014
H2-AA-07	214502 17	EPA TO-15 SIM Short List	9/22/2014
H2-AA-08	214502 18	EPA TO-15 SIM Short List	9/22/2014
H2-AA-09	214502 19	EPA TO-15 SIM Short List	9/22/2014
H2-AA-04E	214502 20	EPA TO-15 SIM Short List	9/22/2014
H2-AA-03	214502 21	EPA TO-15 SIM Short List	9/22/2014
H2-AA-02	214502 22	EPA TO-15 SIM Short List	9/22/2014
H2-AA-10W	214502 23	EPA TO-15 SIM Short List	9/22/2014

Client Sample ID	EAS Lab No.	Analysis Requested	Date Sampled
H2-AA-06	214502 24	EPA TO-15 SIM Short List	9/22/2014

Project Sample Media

SDG Number: 214502

The following sample media was used for this Sample Delivery Group (SDG). The Sample Media column identifies the type of media. For canisters, the Sample Media Batch gives the canister number followed by the cleaning batch number, which is a unique identification. Canisters that are received with sub-ambient pressures are pressurized to about 5 psig. The initial pressure of the canister when it is received is recorded along with the final pressure after pressurization. The canister dilution factor is the ratio of the final to initial pressure. The results are adjusted for the can dilution factor.

SDG	Lab ID	Client Sample No.	Sample		Pressure, torr		Can Factor
			Media	Batch	Initial	Final	
214502	1	H3-BKGND	846	091714Z	523	750	1.43
214502	2	H3-AA-40A	536	091614Z	539	753	1.40
214502	3	H3-AA-36	727	091614Z	558	758	1.36
214502	4	H3-AA-33	547	091714Z	532	762	1.43
214502	5	H3-AA-30	712	091714Z	630	760	1.21
214502	6	H3-AA-29	704	091714Z	552	766	1.39
214502	7	H3-AA-27	614	091614Z	565	772	1.37
214502	8	H3-AA-22	837	091714Z	456	790	1.73
214502	9	H3-AA-20	654	091714Z	406	762	1.88
214502	10	H3-AA-17	533	091714Z	483	772	1.60
214502	11	H3-AA-16	860	091814Z	508	771	1.52
214502	12	H3-AA-01	692	091614Z	610	771	1.26
214502	13	H3-AA-05	838	091714Z	555	769	1.39
214502	14	H3-AA-08	648	091614Z	562	780	1.39
214502	15	H3-AA-10	627	091714Z	538	797	1.48
214502	16	H2-BKGND	412	091614Z	532	763	1.43
214502	17	H2-AA-07	548	091714Z	610	739	1.21
214502	18	H2-AA-08	847	091814Z	515	779	1.51
214502	19	H2-AA-09	507	091614Z	570	743	1.30
214502	20	H2-AA-04E	512	091814Z	540	771	1.43
214502	21	H2-AA-03	724	091814Z	604	758	1.25
214502	22	H2-AA-02	800	091714Z	615	768	1.25
214502	23	H2-AA-10W	817	091614Z	609	780	1.28
214502	24	H2-AA-06	778	091614Z	602	770	1.28

Laboratory Case Narrative

EAS SDG Number: 214502

Project Number: 16592

Client: Earth Resource Technology

The Laboratory Case Narrative for the SDG is below. The Chain of Custody form(s) follow the Case Narrative.

Sample Control Narrative

The samples were all received in good condition and with proper preservation.

Test Methods

The methods used for sample analysis are listed on the Analytical Report header. Most methods are a modification of the agency method, and the modifications are described in the EAS Quality Manual along with the QC criteria used for the method. Project specific modifications to the methods or project specific QC may override the EAS modification

QC Narrative

All analyses met EAS method criteria as defined in the Quality Manual, except as noted in the report or QC reports with data qualifiers.

Subcontract Narrative

No sample analysis was subcontracted for this project

Laboratory Certification

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness other than the condition(s) noted above. The Laboratory Report is property of EAS and its client. The entire report has been reviewed and approved.



Date Approved: 9/26/2014

Steven D. Hoyt, Ph.D.
Environmental Analytical Service
Laboratory Director

CHAIN OF CUSTODY RECORD

Project Number 3602-707 Project Name: H3+H2 Ambient Quote Number:

REPORT TO:		MATRIX LEGEND (A) - Ambient Air, Low Level I - Indoor Air S - Source Air, High Level G - Gas/Product	INITIAL PRESSURE	FINAL PRESSURE	EAS LABORATORY ID	ANALYTICAL TESTS T015 - Low SIM
Company	<u>ERT, INC.</u>					
Address	<u>NASA Ames, MS T206-4</u>					
City/State/Zip	<u>Moffett Field, CA. 94035</u>					
Phone	<u>650/604-2057 (FAX)</u>					
ATTENTION	<u>Joseph R. Lukas@Nasa.gov</u>					

SAMPLE DESCRIPTION	SAMPLE DATE	SAMPLE TIME	CANISTER NUMBER	C O M P	G R A B	MATRIX				INITIAL PRESSURE	FINAL PRESSURE	EAS LABORATORY ID	ANALYTICAL TESTS	REMARKS	Initial	
						A	I	S	G							
H3-BKGND	9-22-14	1602	846	X	X					-30	-15	24502-01	X		7hr. 52mins	I
H3-AA-40A		1558	536		X					-30	-14	02	X	551 753	7hr. 51mins	I
H3-AA-36		1600	727		X					-26	-7	03	X	558 758	7hr. 51mins	I
H3-AA-33		1609	547		X					-30	-12	04	X	532 762	7hr. 54mins	I
H3-AA-30		1618	712		X					-30	-10	05	X	630 760	7hr. 57mins	I
H3-AA-29		1624	704		X					-30	-22	06	X	552 766	7hr. 50mins	I
H3-AA-27		1621	614		X					-30	-16	07	X	555 777	7hr. 51mins	F
H3-AA-22	9-22-14	1633	837	X	X					-30	-14	08	X	450 790	7hr. 52mins	F

COMMENTS

BILLING INFORMATION		SAMPLED BY: <u>Ch. Lukas</u> Date: <u>9/22/14</u> Time: <u>1800</u>		Received by:		Date: Time	
Company <u>ERT, INC.</u>		Relinquished By: <u>J.R. Lukas</u> Date: <u>9/23/14</u> Time: <u>0800</u>		Received by:		Date: Time	
Address <u>14401 Sweitzer Ln. #300</u>		Relinquished By:		Received by:		Date: Time	
City/State/Zip <u>Laurel, MD. 20707</u>		Relinquished By:		Received by:		Date: Time	
ATTENTION <u>Laurie Truesdale</u>		Relinquished By:		Received by: <u>Christine King</u> Date: <u>9/24/14</u> Time: <u>13:30</u>		Date: Time	
Purchase Order/Billing Reference <u>3602-707</u>		Relinquished By:		Received by:		Date: Time	

CHAIN OF CUSTODY RECORD

Project Number **3602-707** Project Name: **H3+H2 Ambient** Quote Number:

REPORT TO:
Company: **ERT, Inc.**
Address: **NASA Ames, MS T20G-4**
City/State/Zip: **Moffett Field, CA 94035**
Phone: **650/604-2057** (FAX)
ATTENTION: **joseph.r.lukas@nasa.gov**

MATRIX LEGEND
Ⓐ - Ambient Air, Low Level
I - Indoor Air
S - Source Air, High Level
G - Gas/Product

INITIAL PRESSURE: FINAL PRESSURE: EAS LABORATORY ID:

ANALYTICAL TESTS: **T015 - Low SIM**

SAMPLE DESCRIPTION	SAMPLE DATE	SAMPLE TIME	CANISTER NUMBER	COMP	GRAB	MATRIX				INITIAL PRESSURE	FINAL PRESSURE	EAS LABORATORY ID	ANALYTICAL TESTS	P ₁	P ₂	REMARKS
						A	I	S	G							
H3-AA-20	9-22-14	1632	654	X	X					-30	-17	21450209	X			7 hr. 52 mins
H3-AA-17	}	1639	533		X					-29	-13	-10	X			7 hr. 54 mins
H3-AA-16		1642	860		X					-30	-15	-11	X			7 hr. 54 mins
H3-AA-01		1645	692		X					-27	-8	-12	X			7 hr. 52 mins
H3-AA-05		1648	838		X					-30	-13	-13	X			7 hr. 53 mins
H3-AA-08		1653	648		X					-28.5	-9	-14	X			7 hr. 54 mins
H3-AA-10		1655	627		X					-28	-12	-15	X			7 hr. 54 mins
H2-BKEND		9-22-14	1659	412	X	X					-28	-10	-10	X		

COMMENTS

BILLING INFORMATION

Company: **Earth Resources Tech, Inc.**
Address: **14401 Sweitzer Ln. # 300**
City/State/Zip: **Laurel, MD 20707**
ATTENTION: **Laurie Truesdale**
Purchase Order/Billing Reference: **3602-707**

SAMPLED BY: J.R. Lukas	Date: 9/22/14 Time: 1800	Received by:	Date: Time:
Relinquished By: J.R. Lukas	Date: 9/23/14 Time: 0800	Received by:	Date: Time:
Relinquished By:	Date: Time:	Received by:	Date: Time:
Relinquished By:	Date: Time:	Received for lab by: Justin King	Date: 9/24/14 Time: 13:30

Chief
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CHAIN OF CUSTODY RECORD

Project Number 3602-707		Project Name: H3+H2 Ambient		Quote Number:						
REPORT TO:				INITIAL PRESSURE	FINAL PRESSURE	EAS LABORATORY ID	ANALYTICAL TESTS <i>TO15 - Low SIM</i>			
Company ERT, INC.										
Address NASA Ames, T20G-4										
City/State/Zip Moffett Field, CA. 94035										
Phone 650/604-2057 (FAX)										
ATTENTION joseph.r.lukas@nasa.gov				MATRIX LEGEND						
				(A) - Ambient Air, Low Level I - Indoor Air S - Source Air, High Level G - Gas/Product						
MATRIX										
				A	I	S	G			
SAMPLE DESCRIPTION	SAMPLE DATE	SAMPLE TIME	CANISTER NUMBER	COMP	GRAB				REMARKS (A)	
H2-AA-07	9-22-14	1703	548	X	X				7hr. 56 mins	
H2-AA-08		1705	847		X				7hr. 57 mins	
H2-AA-09		1709	507		X				7hr. 53 mins	
H2-AA-04E		1710	512		X				7hr. 58 mins	
H2-AA-03		1712	724		X				7hr. 52 mins	
H2-AA-02		1714	800		X				7hr. 52 mins	
H2-AA-10W		1718	817		X				7hr. 52 mins	
H2-AA-06	9-22-14	1720	778	X	X				7hr. 52 mins	

BILLING INFORMATION			
Company Earth Resource Tech, Inc.	SAMPLED BY: <i>J.R. Lukas</i>	Date 9/22/14 Time 1800	Received by: _____ Date _____ Time _____
Address 14401 Sweitzer Ln. #300	Relinquished By: <i>J.R. Lukas</i>	Date 9/23/14 Time 0800	Received by: _____ Date _____ Time _____
City/State/Zip Laurel, MD. 20707	Relinquished By: _____	Date _____ Time _____	Received by: _____ Date _____ Time _____
ATTENTION Laurie Truesdale	Relinquished By: _____	Date _____ Time _____	Received for lab by: <i>Priscilla King</i> Date 9/24/14 Time 13:30
Purchase Order/Billing Reference 3602-707			

Quality Control Report

EAS SDG Number: 214502

Project Number: 16592

QC Narrative

Samples were analyzed in a daily analytical batch (DAB) designated by a QC batch number, and were analyzed using EAS standard laboratory QC specified in the EAS Quality Manual. Any deviations from the QC are flagged in the Laboratory Control Reports or in the sample Analytical

Standard Laboratory QC Report

Unless project specific QC was requested, this Section containing the standard laboratory QC (Level 2) supplied with the Analytical Reports. Each sample is analyzed in a Daily Analytical Batch (DAB) which includes the method blank, a laboratory control spike (LCS) and a laboratory control duplicate (LCD). A Daily Analytical Batch QC report is supplied for each method requested.

Method Blank

A method blank is a laboratory generated sample which assesses the degree to which laboratory operations and procedures cause a false positive. In the method blank, compounds should be present below the reporting limit (RL). Compounds present above the RL are flagged with a "B" in the Analytical Reports in that batch.

Laboratory Control Spike

A laboratory control spike is a well characterized matrix similar to the sample which is spiked and run in duplicate with each Daily Analytical Batch. The laboratory control spike results are reported as a percent recovery. The QC Criteria for the control spike is listed in the Laboratory Control Report. Any results outside the control limits are flagged with a "Q" on the Laboratory Control Report. The control spike contains an abbreviated list of compounds in the method, and may contain compounds not on the target list for the specified report.

Laboratory Control Duplicate

The laboratory control duplicate is a duplicate analysis of the laboratory control spike, a standard, or a sample depending on the method. The results are reported as a relative percent difference (RPD). The criteria for the duplicate is in the Laboratory Control Report for the Daily Analytical Batch. Any results outside the control limits are flagged with a "Q" on the Laboratory Control Report.

METHOD BLANK REPORT

EPA Method TO-15 Modified SIM GC/MS

Analytical Method: TO15 SIM

SDG: LABQC
Laboratory ID: B09254

Description: METHOD BLANK

Can/Tube#:

QC_Batch: 092514-MB1

Air Volume: 100 ml

Date Sampled:

Date Received:

Date Analyzed: 09/25/14

Can Dilution Factor: 1.00

Time:

Time:

Time: 14:52

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
75-01-4	Vinyl chloride	0.050	0.260	ND	0.128	0.664	ND	ND
75-35-4	1,1-Dichloroethene	0.050	0.260	ND	0.198	1.030	ND	ND
75-09-2	Dichloromethane	0.050	0.260	ND	0.174	0.902	ND	ND
156-60-5	trans-1,2-Dichloroethene	0.050	0.260	ND	0.198	1.030	ND	ND
1634-04-4	Methyl tert butyl ether	0.050	0.260	ND	0.180	0.936	ND	ND
75-34-3	1,1-Dichloroethane	0.050	0.260	ND	0.202	1.052	ND	ND
156-59-2	cis-1,2-Dichloroethene	0.050	0.260	ND	0.198	1.030	ND	ND
67-66-3	Chloroform	0.050	0.260	ND	0.244	1.269	ND	ND
71-55-6	1,1,1-Trichloroethane	0.050	0.260	ND	0.273	1.418	ND	ND
107-06-2	1,2-Dichloroethane	0.050	0.260	ND	0.202	1.052	ND	ND
71-43-2	Benzene	0.050	0.260	ND	0.160	0.830	ND	ND
56-23-5	Carbon tetrachloride	0.050	0.260	ND	0.314	1.635	ND	ND
79-01-6	Trichloroethene	0.050	0.260	ND	0.269	1.397	ND	ND
108-88-3	Toluene	0.050	0.260	0.080	0.188	0.979	0.303	J
106-93-4	1,2-Dibromoethane	0.050	0.260	ND	0.384	1.997	ND	ND
127-18-4	Tetrachloroethene	0.050	0.260	ND	0.339	1.762	ND	ND
100-41-4	Ethylbenzene	0.050	0.260	ND	0.217	1.129	ND	ND
1330-20-7	m,p-Xylenes	0.050	0.260	ND	0.217	1.129	ND	ND
95-47-6	o-Xylene	0.050	0.260	ND	0.217	1.129	ND	ND
108-67-8	1,3,5-Trimethylbenzene	0.050	0.260	0.053	0.246	1.278	0.260	J
95-63-6	1,2,4-Trimethylbenzene	0.050	0.260	ND	0.246	1.278	ND	ND

Surrogate Recovery	Spike ppbV	Measured ppbV	% Rec.	QC LCL	Limits UCL	Flag * = Out
2037-26-5 Toluene-d8	0.20	0.19	96	70	130	

METHOD BLANK REPORT

EPA Method TO-15 Modified SIM GC/MS
Analytical Method: TO15 SIM

SDG: LABQC
Laboratory ID: B09244

Description: METHOD BLANK
Can/Tube#:
QC_Batch: 092414-MB1
Air Volume: 100 ml

Date Sampled:
Date Received:
Date Analyzed: 09/24/14
Can Dilution Factor: 1.00
Time: 15:46

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
75-01-4	Vinyl chloride	0.050	0.260	ND	0.128	0.664	ND	ND
75-35-4	1,1-Dichloroethene	0.050	0.260	ND	0.198	1.030	ND	ND
75-09-2	Dichloromethane	0.050	0.260	ND	0.174	0.902	ND	ND
156-60-5	trans-1,2-Dichloroethene	0.050	0.260	ND	0.198	1.030	ND	ND
1634-04-4	Methyl tert butyl ether	0.050	0.260	ND	0.180	0.936	ND	ND
75-34-3	1,1-Dichloroethane	0.050	0.260	ND	0.202	1.052	ND	ND
156-59-2	cis-1,2-Dichloroethene	0.050	0.260	ND	0.198	1.030	ND	ND
67-66-3	Chloroform	0.050	0.260	ND	0.244	1.269	ND	ND
71-55-6	1,1,1-Trichloroethane	0.050	0.260	ND	0.273	1.418	ND	ND
107-06-2	1,2-Dichloroethane	0.050	0.260	ND	0.202	1.052	ND	ND
71-43-2	Benzene	0.050	0.260	ND	0.160	0.830	ND	ND
56-23-5	Carbon tetrachloride	0.050	0.260	ND	0.314	1.635	ND	ND
79-01-6	Trichloroethene	0.050	0.260	ND	0.269	1.397	ND	ND
108-88-3	Toluene	0.050	0.260	0.055	0.188	0.979	0.209	J
106-93-4	1,2-Dibromoethane	0.050	0.260	ND	0.384	1.997	ND	ND
127-18-4	Tetrachloroethene	0.050	0.260	ND	0.339	1.762	ND	ND
100-41-4	Ethylbenzene	0.050	0.260	ND	0.217	1.129	ND	ND
1330-20-7	m,p-Xylenes	0.050	0.260	ND	0.217	1.129	ND	ND
95-47-6	o-Xylene	0.050	0.260	ND	0.217	1.129	ND	ND
108-67-8	1,3,5-Trimethylbenzene	0.050	0.260	ND	0.246	1.278	ND	ND
95-63-6	1,2,4-Trimethylbenzene	0.050	0.260	ND	0.246	1.278	ND	ND

Surrogate Recovery	Spike ppbV	Measured ppbV	% Rec.	QC LCL	Limits UCL	Flag * = Out
2037-26-5 Toluene-d8	0.20	0.18	92	70	130	

QUALITY CONTROL REPORT

LABORATORY CONTROL SPIKE AND SPIKE DUPLICATE REPORT

EPA Method TO-15 Modified SIM GC/MS

Analytical Method: TO15 SIM

Date: 09/25/14

QC_Batch: 092514-MB1

CAS#	Compound	LCS		LCD		Spike Limit		Duplicate		
		Recovery %	Flag	Recovery %	Flag	LCL %	UCL %	Duplicate %	Limit %	Flag
75-01-4	Vinyl chloride	114		115		70	130	1	25	
75-35-4	1,1-Dichloroethene	112		115		70	130	2	25	
75-09-2	Dichloromethane	96		107		70	130	6	25	
75-34-3	1,1-Dichloroethane	111		105		70	130	3	25	
67-66-3	Chloroform	107		106		70	130	1	25	
71-55-6	1,1,1-Trichloroethane	114		104		70	130	6	25	
107-06-2	1,2-Dichloroethane	104		92		70	130	8	25	
71-43-2	Benzene	107		105		70	130	1	25	
56-23-5	Carbon tetrachloride	91		83		70	130	6	25	
79-01-6	Trichloroethene	102		98		70	130	3	25	
108-88-3	Toluene	108		101		70	130	4	25	
127-18-4	Tetrachloroethene	87		82		70	130	2	25	
100-41-4	Ethylbenzene	121		102		70	130	12	25	
1330-20-7	m,p-Xylenes	123		100		70	130	15	25	
95-47-6	o-Xylene	120		93		70	130	17	25	
108-67-8	1,3,5-Trimethylbenzene	122		93		70	130	21	25	

LCS - Laboratory Control Spike

LCD - Laboratory Control Duplicate

Flag - Q indicated out of Limit

QUALITY CONTROL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

LABORATORY CONTROL SPIKE AND SPIKE DUPLICATE REPORT

EPA Method TO-15 Modified SIM GC/MS

Analytical Method: TO15 SIM

Date: 09/24/14

QC_Batch: 092414-MB1

CAS#	Compound	LCS		LCD		Spike Limit		Duplicate		
		Recovery	Flag	Recovery	Flag	LCL	UCL	Duplicate	Limit	Flag
		%		%		%	%	%	%	
75-01-4	Vinyl chloride	109		122		70	130	9	25	
75-35-4	1,1-Dichloroethene	116		124		70	130	4	25	
75-09-2	Dichloromethane	98		119		70	130	13	25	
75-34-3	1,1-Dichloroethane	103		115		70	130	7	25	
67-66-3	Chloroform	100		110		70	130	6	25	
71-55-6	1,1,1-Trichloroethane	102		113		70	130	7	25	
107-06-2	1,2-Dichloroethane	89		99		70	130	7	25	
71-43-2	Benzene	103		113		70	130	6	25	
56-23-5	Carbon tetrachloride	77		82		70	130	4	25	
79-01-6	Trichloroethene	92		107		70	130	11	25	
108-88-3	Toluene	109		118		70	130	5	25	
127-18-4	Tetrachloroethene	71		81		70	130	5	25	
100-41-4	Ethylbenzene	116		129		70	130	7	25	
1330-20-7	m,p-Xylenes	117		129		70	130	7	25	
95-47-6	o-Xylene	115		125		70	130	7	25	
108-67-8	1,3,5-Trimethylbenzene	102		122		70	130	15	25	

LCS - Laboratory Control Spike

LCD - Laboratory Control Duplicate

Flag - Q indicated out of Limit

Analytical Reports

EAS SDG Number: 214502

Project Number: 16592

The following pages contain the certified Analytical Reports for the samples submitted in the Sample Delivery Group (SDG) and are in order of the EAS Lab ID number. All of the analytical methods used are modifications of the published methods. Procedural method modifications are listed in the method descriptions, and the QC modifications are in the QC Criteria table in the EAS Quality Manual.

The Analytical Report has columns for the method detection limit (MDL), the reporting limit (RL), and the Amount. The Amount is the concentration of the compound in the sample. The report usually has the results reported with two commonly used units. The MDL, RL, and Amount are adjusted for the canister dilution factor and any dilution caused by sample matrix effects.

DETECTION LIMITS

MDL: The MDL is initially determined from the standard deviation of seven replicate measurements, but the value in the report is set from a MDL verification sample run at a level near the calculated MDL.

RL: The reporting limit (RL) is the lowest concentration standard on the calibration curve, and represents the lowest concentration that can be measured that will meet all of the QC Criteria for the method.

DATA FLAGS

In the standard report, if a compound is not detected above the method detection limit, a "ND" is in the Amount column. The flag column is used for both the not detect flag and for any data flags. The not detect flag is either a "ND" or a "U". If the "U" flag is selected, the MDL for the compound is reported in the Amount column instead of "ND". Other flags are listed below:

B - This compound was detected in the batch method blank above the reporting limit.

E - This compound exceeds the calibration range for this sample volume.

J - The amount reported is estimated because it was below the RL and above the MDL

F - Higher detection limits because of matrix interference

UNITS

PPBV or PPMV: Parts-per-billion (or million) by volume is a mole (volume) ratio of the moles of analyte divided by the moles of air (gas). This is the primary unit used to report air or gas concentrations and is independent of temperature and pressure. It is different from the ppb unit used to report water or soil data, which is a mass ratio.

UG/M3 OR MG/M3: Micrograms (or milligrams) per cubic meter is a mass/volume ratio and does depend on temperature and pressure of the source at time of sample collection. The reported result was calculated based on 1 atm pressure and a temperature of 25C. The conversion from PPBV is: $UG/M3 = PPBV \times MW/24.46$ where 24.26 is the gas constant and MW is the Compounds Molecular Weight (sometimes called Formula Weight)

ANALYTICAL REPORT

EPA Method TO-15 Modified SIM GC/MS
Analytical Method: TO15 SIM

SDG: 214502
Laboratory ID: 01

Description: H3-BKGND
Can/Tube#: 846
QC_Batch: 092414-MB1
Air Volume: 100 ml

Date Sampled: 09/22/14 Time: 16:02
Date Received: 09/24/14 Time: 13:30
Date Analyzed: 09/24/14 Time: 16:17
Can Dilution Factor: 1.43

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
75-01-4	Vinyl chloride	0.072	0.372	ND	0.183	0.950	ND	ND
75-35-4	1,1-Dichloroethene	0.072	0.372	ND	0.283	1.473	ND	ND
75-09-2	Dichloromethane	0.072	0.372	ND	0.248	1.290	ND	ND
156-60-5	trans-1,2-Dichloroethene	0.072	0.372	ND	0.283	1.473	ND	ND
1634-04-4	Methyl tert butyl ether	0.072	0.372	ND	0.258	1.339	ND	ND
75-34-3	1,1-Dichloroethane	0.072	0.372	ND	0.289	1.505	ND	ND
156-59-2	cis-1,2-Dichloroethene	0.072	0.372	ND	0.283	1.473	ND	ND
67-66-3	Chloroform	0.072	0.372	ND	0.349	1.815	ND	ND
71-55-6	1,1,1-Trichloroethane	0.072	0.372	ND	0.390	2.028	ND	ND
107-06-2	1,2-Dichloroethane	0.072	0.372	ND	0.289	1.505	ND	ND
71-43-2	Benzene	0.072	0.372	0.135	0.228	1.187	0.432	J
56-23-5	Carbon tetrachloride	0.072	0.372	0.087	0.450	2.338	0.550	J
79-01-6	Trichloroethene	0.072	0.372	ND	0.384	1.997	ND	ND
108-88-3	Toluene	0.072	0.372	5.458	0.269	1.400	20.548	
106-93-4	1,2-Dibromoethane	0.072	0.372	ND	0.549	2.856	ND	ND
127-18-4	Tetrachloroethene	0.072	0.372	ND	0.485	2.520	ND	ND
100-41-4	Ethylbenzene	0.072	0.372	ND	0.310	1.614	ND	ND
1330-20-7	m,p-Xylenes	0.072	0.372	0.207	0.310	1.614	0.901	J
95-47-6	o-Xylene	0.072	0.372	ND	0.310	1.614	ND	ND
108-67-8	1,3,5-Trimethylbenzene	0.072	0.372	ND	0.351	1.827	ND	ND
95-63-6	1,2,4-Trimethylbenzene	0.072	0.372	ND	0.351	1.827	ND	ND

Surrogate Recovery	Spike ppbV	Measured ppbV	% Rec.	QC LCL	Limits UCL	Flag * = Out
2037-26-5 Toluene-d8	0.20	0.20	99	70	130	

ANALYTICAL REPORT

EPA Method TO-15 Modified SIM GC/MS
Analytical Method: TO15 SIM

SDG: 214502
Laboratory ID: 02

Description: H3-AA-40A
Can/Tube#: 536
QC_Batch: 092414-MB1
Air Volume: 100 ml

Date Sampled: 09/22/14 Time: 15:58
Date Received: 09/24/14 Time: 13:30
Date Analyzed: 09/24/14 Time: 17:36
Can Dilution Factor: 1.40

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
75-01-4	Vinyl chloride	0.070	0.364	ND	0.179	0.930	ND	ND
75-35-4	1,1-Dichloroethene	0.070	0.364	ND	0.277	1.442	ND	ND
75-09-2	Dichloromethane	0.070	0.364	ND	0.243	1.263	ND	ND
156-60-5	trans-1,2-Dichloroethene	0.070	0.364	ND	0.277	1.442	ND	ND
1634-04-4	Methyl tert butyl ether	0.070	0.364	ND	0.252	1.311	ND	ND
75-34-3	1,1-Dichloroethane	0.070	0.364	ND	0.283	1.473	ND	ND
156-59-2	cis-1,2-Dichloroethene	0.070	0.364	ND	0.277	1.442	ND	ND
67-66-3	Chloroform	0.070	0.364	ND	0.342	1.777	ND	ND
71-55-6	1,1,1-Trichloroethane	0.070	0.364	ND	0.382	1.985	ND	ND
107-06-2	1,2-Dichloroethane	0.070	0.364	ND	0.283	1.473	ND	ND
71-43-2	Benzene	0.070	0.364	0.203	0.223	1.162	0.649	J
56-23-5	Carbon tetrachloride	0.070	0.364	ND	0.440	2.289	ND	ND
79-01-6	Trichloroethene	0.070	0.364	ND	0.376	1.955	ND	ND
108-88-3	Toluene	0.070	0.364	11.984	0.264	1.370	45.119	
106-93-4	1,2-Dibromoethane	0.070	0.364	ND	0.538	2.796	ND	ND
127-18-4	Tetrachloroethene	0.070	0.364	ND	0.474	2.467	ND	ND
100-41-4	Ethylbenzene	0.070	0.364	ND	0.304	1.580	ND	ND
1330-20-7	m,p-Xylenes	0.070	0.364	0.323	0.304	1.580	1.404	J
95-47-6	o-Xylene	0.070	0.364	ND	0.304	1.580	ND	ND
108-67-8	1,3,5-Trimethylbenzene	0.070	0.364	ND	0.344	1.789	ND	ND
95-63-6	1,2,4-Trimethylbenzene	0.070	0.364	ND	0.344	1.789	ND	ND

Surrogate Recovery	Spike ppbV	Measured ppbV	% Rec.	QC LCL	Limits UCL	Flag * = Out
2037-26-5 Toluene-d8	0.20	0.22	109	70	130	

ANALYTICAL REPORT

EPA Method TO-15 Modified SIM GC/MS
Analytical Method: TO15 SIM

SDG: 214502
Laboratory ID: 03

Description: H3-AA-36
Can/Tube#: 727
QC_Batch: 092414-MB1
Air Volume: 100 ml

Date Sampled: 09/22/14 Time: 16:00
Date Received: 09/24/14 Time: 13:30
Date Analyzed: 09/24/14 Time: 18:02
Can Dilution Factor: 1.36

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
75-01-4	Vinyl chloride	0.068	0.354	ND	0.174	0.903	ND	ND
75-35-4	1,1-Dichloroethene	0.068	0.354	ND	0.269	1.401	ND	ND
75-09-2	Dichloromethane	0.068	0.354	ND	0.236	1.227	ND	ND
156-60-5	trans-1,2-Dichloroethene	0.068	0.354	ND	0.269	1.401	ND	ND
1634-04-4	Methyl tert butyl ether	0.068	0.354	ND	0.245	1.273	ND	ND
75-34-3	1,1-Dichloroethane	0.068	0.354	ND	0.275	1.431	ND	ND
156-59-2	cis-1,2-Dichloroethene	0.068	0.354	ND	0.269	1.401	ND	ND
67-66-3	Chloroform	0.068	0.354	ND	0.332	1.726	ND	ND
71-55-6	1,1,1-Trichloroethane	0.068	0.354	ND	0.371	1.928	ND	ND
107-06-2	1,2-Dichloroethane	0.068	0.354	ND	0.275	1.431	ND	ND
71-43-2	Benzene	0.068	0.354	ND	0.217	1.129	ND	ND
56-23-5	Carbon tetrachloride	0.068	0.354	0.085	0.428	2.223	0.533	J
79-01-6	Trichloroethene	0.068	0.354	ND	0.365	1.899	ND	ND
108-88-3	Toluene	0.068	0.354	6.368	0.256	1.331	23.976	
106-93-4	1,2-Dibromoethane	0.068	0.354	ND	0.522	2.716	ND	ND
127-18-4	Tetrachloroethene	0.068	0.354	ND	0.461	2.397	ND	ND
100-41-4	Ethylbenzene	0.068	0.354	ND	0.295	1.535	ND	ND
1330-20-7	m,p-Xylenes	0.068	0.354	ND	0.295	1.535	ND	ND
95-47-6	o-Xylene	0.068	0.354	ND	0.295	1.535	ND	ND
108-67-8	1,3,5-Trimethylbenzene	0.068	0.354	ND	0.334	1.737	ND	ND
95-63-6	1,2,4-Trimethylbenzene	0.068	0.354	ND	0.334	1.737	ND	ND

Surrogate Recovery	Spike ppbV	Measured ppbV	% Rec.	QC LCL	Limits UCL	Flag * = Out
2037-26-5 Toluene-d8	0.20	0.20	100	70	130	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified SIM GC/MS
Analytical Method: TO15 SIM

SDG: 214502
Laboratory ID: 04

Description: H3-AA-33
Can/Tube#: 547
QC_Batch: 092414-MB1
Air Volume: 100 ml

Date Sampled: 09/22/14 Time: 16:09
Date Received: 09/24/14 Time: 13:30
Date Analyzed: 09/24/14 Time: 18:32
Can Dilution Factor: 1.43

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
75-01-4	Vinyl chloride	0.072	0.372	ND	0.183	0.950	ND	ND
75-35-4	1,1-Dichloroethene	0.072	0.372	ND	0.283	1.473	ND	ND
75-09-2	Dichloromethane	0.072	0.372	0.084	0.248	1.290	0.292	J
156-60-5	trans-1,2-Dichloroethene	0.072	0.372	ND	0.283	1.473	ND	ND
1634-04-4	Methyl tert butyl ether	0.072	0.372	ND	0.258	1.339	ND	ND
75-34-3	1,1-Dichloroethane	0.072	0.372	ND	0.289	1.505	ND	ND
156-59-2	cis-1,2-Dichloroethene	0.072	0.372	ND	0.283	1.473	ND	ND
67-66-3	Chloroform	0.072	0.372	0.155	0.349	1.815	0.756	J
71-55-6	1,1,1-Trichloroethane	0.072	0.372	ND	0.390	2.028	ND	ND
107-06-2	1,2-Dichloroethane	0.072	0.372	ND	0.289	1.505	ND	ND
71-43-2	Benzene	0.072	0.372	0.238	0.228	1.187	0.760	J
56-23-5	Carbon tetrachloride	0.072	0.372	ND	0.450	2.338	ND	ND
79-01-6	Trichloroethene	0.072	0.372	ND	0.384	1.997	ND	ND
108-88-3	Toluene	0.072	0.372	1.693	0.269	1.400	6.376	
106-93-4	1,2-Dibromoethane	0.072	0.372	ND	0.549	2.856	ND	ND
127-18-4	Tetrachloroethene	0.072	0.372	ND	0.485	2.520	ND	ND
100-41-4	Ethylbenzene	0.072	0.372	ND	0.310	1.614	ND	ND
1330-20-7	m,p-Xylenes	0.072	0.372	ND	0.310	1.614	ND	ND
95-47-6	o-Xylene	0.072	0.372	ND	0.310	1.614	ND	ND
108-67-8	1,3,5-Trimethylbenzene	0.072	0.372	ND	0.351	1.827	ND	ND
95-63-6	1,2,4-Trimethylbenzene	0.072	0.372	ND	0.351	1.827	ND	ND

Surrogate Recovery	Spike ppbV	Measured ppbV	% Rec.	QC LCL	Limits UCL	Flag * = Out
2037-26-5 Toluene-d8	0.20	0.21	105	70	130	

ANALYTICAL REPORT

EPA Method TO-15 Modified SIM GC/MS
Analytical Method: TO15 SIM

SDG: 214502
Laboratory ID: 05

Description: H3-AA-30
Can/Tube#: 712
QC_Batch: 092414-MB1
Air Volume: 100 ml

Date Sampled: 09/22/14 Time: 16:18
Date Received: 09/24/14 Time: 13:30
Date Analyzed: 09/24/14 Time: 19:00
Can Dilution Factor: 1.21

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
75-01-4	Vinyl chloride	0.061	0.315	ND	0.155	0.804	ND	ND
75-35-4	1,1-Dichloroethene	0.061	0.315	ND	0.240	1.246	ND	ND
75-09-2	Dichloromethane	0.061	0.315	ND	0.210	1.092	ND	ND
156-60-5	trans-1,2-Dichloroethene	0.061	0.315	ND	0.240	1.246	ND	ND
1634-04-4	Methyl tert butyl ether	0.061	0.315	ND	0.218	1.133	ND	ND
75-34-3	1,1-Dichloroethane	0.061	0.315	ND	0.245	1.273	ND	ND
156-59-2	cis-1,2-Dichloroethene	0.061	0.315	ND	0.240	1.246	ND	ND
67-66-3	Chloroform	0.061	0.315	ND	0.295	1.536	ND	ND
71-55-6	1,1,1-Trichloroethane	0.061	0.315	ND	0.330	1.716	ND	ND
107-06-2	1,2-Dichloroethane	0.061	0.315	ND	0.245	1.273	ND	ND
71-43-2	Benzene	0.061	0.315	0.221	0.193	1.004	0.707	J
56-23-5	Carbon tetrachloride	0.061	0.315	ND	0.380	1.978	ND	ND
79-01-6	Trichloroethene	0.061	0.315	ND	0.325	1.690	ND	ND
108-88-3	Toluene	0.061	0.315	5.029	0.228	1.184	18.934	
106-93-4	1,2-Dibromoethane	0.061	0.315	ND	0.465	2.417	ND	ND
127-18-4	Tetrachloroethene	0.061	0.315	ND	0.410	2.132	ND	ND
100-41-4	Ethylbenzene	0.061	0.315	ND	0.263	1.366	ND	ND
1330-20-7	m,p-Xylenes	0.061	0.315	ND	0.263	1.366	ND	ND
95-47-6	o-Xylene	0.061	0.315	ND	0.263	1.366	ND	ND
108-67-8	1,3,5-Trimethylbenzene	0.061	0.315	ND	0.297	1.546	ND	ND
95-63-6	1,2,4-Trimethylbenzene	0.061	0.315	ND	0.297	1.546	ND	ND

Surrogate Recovery	Spike ppbV	Measured ppbV	% Rec.	QC LCL	Limits UCL	Flag * = Out
2037-26-5 Toluene-d8	0.20	0.21	105	70	130	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified SIM GC/MS
Analytical Method: TO15 SIM

SDG: 214502
Laboratory ID: 06

Description: H3-AA-29
Can/Tube#: 704
QC_Batch: 092414-MB1
Air Volume: 100 ml

Date Sampled: 09/22/14 Time: 16:24
Date Received: 09/24/14 Time: 13:30
Date Analyzed: 09/24/14 Time: 19:25
Can Dilution Factor: 1.39

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
75-01-4	Vinyl chloride	0.070	0.361	ND	0.178	0.923	ND	ND
75-35-4	1,1-Dichloroethene	0.070	0.361	ND	0.275	1.432	ND	ND
75-09-2	Dichloromethane	0.070	0.361	ND	0.241	1.254	ND	ND
156-60-5	trans-1,2-Dichloroethene	0.070	0.361	ND	0.275	1.432	ND	ND
1634-04-4	Methyl tert butyl ether	0.070	0.361	ND	0.250	1.302	ND	ND
75-34-3	1,1-Dichloroethane	0.070	0.361	ND	0.281	1.463	ND	ND
156-59-2	cis-1,2-Dichloroethene	0.070	0.361	ND	0.275	1.432	ND	ND
67-66-3	Chloroform	0.070	0.361	ND	0.339	1.764	ND	ND
71-55-6	1,1,1-Trichloroethane	0.070	0.361	ND	0.379	1.971	ND	ND
107-06-2	1,2-Dichloroethane	0.070	0.361	ND	0.281	1.463	ND	ND
71-43-2	Benzene	0.070	0.361	0.167	0.222	1.154	0.532	J
56-23-5	Carbon tetrachloride	0.070	0.361	ND	0.437	2.272	ND	ND
79-01-6	Trichloroethene	0.070	0.361	0.112	0.373	1.941	0.600	J
108-88-3	Toluene	0.070	0.361	6.797	0.262	1.361	25.590	
106-93-4	1,2-Dibromoethane	0.070	0.361	ND	0.534	2.776	ND	ND
127-18-4	Tetrachloroethene	0.070	0.361	ND	0.471	2.449	ND	ND
100-41-4	Ethylbenzene	0.070	0.361	ND	0.302	1.569	ND	ND
1330-20-7	m,p-Xylenes	0.070	0.361	0.226	0.302	1.569	0.980	J
95-47-6	o-Xylene	0.070	0.361	ND	0.302	1.569	ND	ND
108-67-8	1,3,5-Trimethylbenzene	0.070	0.361	ND	0.342	1.776	ND	ND
95-63-6	1,2,4-Trimethylbenzene	0.070	0.361	ND	0.342	1.776	ND	ND

Surrogate Recovery	Spike ppbV	Measured ppbV	% Rec.	QC LCL	Limits UCL	Flag * = Out
2037-26-5 Toluene-d8	0.20	0.22	111	70	130	

ANALYTICAL REPORT

EPA Method TO-15 Modified SIM GC/MS
Analytical Method: TO15 SIM

SDG: 214502
Laboratory ID: 07

Description: H3-AA-27
Can/Tube#: 614
QC_Batch: 092414-MB1
Air Volume: 100 ml

Date Sampled: 09/22/14 Time: 16:21
Date Received: 09/24/14 Time: 13:30
Date Analyzed: 09/24/14 Time: 19:51
Can Dilution Factor: 1.37

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
75-01-4	Vinyl chloride	0.069	0.356	ND	0.175	0.910	ND	ND
75-35-4	1,1-Dichloroethene	0.069	0.356	ND	0.271	1.411	ND	ND
75-09-2	Dichloromethane	0.069	0.356	ND	0.238	1.236	ND	ND
156-60-5	trans-1,2-Dichloroethene	0.069	0.356	ND	0.271	1.411	ND	ND
1634-04-4	Methyl tert butyl ether	0.069	0.356	ND	0.247	1.283	ND	ND
75-34-3	1,1-Dichloroethane	0.069	0.356	ND	0.277	1.442	ND	ND
156-59-2	cis-1,2-Dichloroethene	0.069	0.356	ND	0.271	1.411	ND	ND
67-66-3	Chloroform	0.069	0.356	ND	0.334	1.739	ND	ND
71-55-6	1,1,1-Trichloroethane	0.069	0.356	ND	0.374	1.942	ND	ND
107-06-2	1,2-Dichloroethane	0.069	0.356	ND	0.277	1.442	ND	ND
71-43-2	Benzene	0.069	0.356	0.174	0.219	1.137	0.555	J
56-23-5	Carbon tetrachloride	0.069	0.356	ND	0.431	2.240	ND	ND
79-01-6	Trichloroethene	0.069	0.356	ND	0.368	1.913	ND	ND
108-88-3	Toluene	0.069	0.356	4.648	0.258	1.341	17.500	
106-93-4	1,2-Dibromoethane	0.069	0.356	ND	0.526	2.736	ND	ND
127-18-4	Tetrachloroethene	0.069	0.356	ND	0.464	2.414	ND	ND
100-41-4	Ethylbenzene	0.069	0.356	0.075	0.297	1.546	0.324	J
1330-20-7	m,p-Xylenes	0.069	0.356	0.388	0.297	1.546	1.686	
95-47-6	o-Xylene	0.069	0.356	0.072	0.297	1.546	0.313	J
108-67-8	1,3,5-Trimethylbenzene	0.069	0.356	0.093	0.337	1.750	0.455	J
95-63-6	1,2,4-Trimethylbenzene	0.069	0.356	0.212	0.337	1.750	1.040	J

Surrogate Recovery	Spike ppbV	Measured ppbV	% Rec.	QC LCL	Limits UCL	Flag * = Out
2037-26-5 Toluene-d8	0.20	0.21	107	70	130	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified SIM GC/MS
Analytical Method: TO15 SIM

SDG: 214502
Laboratory ID: 08

Description: H3-AA-22
Can/Tube#: 837
QC_Batch: 092414-MB1
Air Volume: 100 ml

Date Sampled: 09/22/14 Time: 16:33
Date Received: 09/24/14 Time: 13:30
Date Analyzed: 09/24/14 Time: 20:16
Can Dilution Factor: 1.73

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
75-01-4	Vinyl chloride	0.087	0.450	ND	0.221	1.149	ND	ND
75-35-4	1,1-Dichloroethene	0.087	0.450	ND	0.343	1.782	ND	ND
75-09-2	Dichloromethane	0.087	0.450	ND	0.300	1.561	ND	ND
156-60-5	trans-1,2-Dichloroethene	0.087	0.450	ND	0.343	1.782	ND	ND
1634-04-4	Methyl tert butyl ether	0.087	0.450	ND	0.312	1.620	ND	ND
75-34-3	1,1-Dichloroethane	0.087	0.450	ND	0.350	1.820	ND	ND
156-59-2	cis-1,2-Dichloroethene	0.087	0.450	ND	0.343	1.782	ND	ND
67-66-3	Chloroform	0.087	0.450	ND	0.422	2.195	ND	ND
71-55-6	1,1,1-Trichloroethane	0.087	0.450	ND	0.472	2.453	ND	ND
107-06-2	1,2-Dichloroethane	0.087	0.450	ND	0.350	1.820	ND	ND
71-43-2	Benzene	0.087	0.450	0.264	0.276	1.436	0.844	J
56-23-5	Carbon tetrachloride	0.087	0.450	ND	0.544	2.828	ND	ND
79-01-6	Trichloroethene	0.087	0.450	ND	0.465	2.416	ND	ND
108-88-3	Toluene	0.087	0.450	13.641	0.326	1.693	51.360	
106-93-4	1,2-Dibromoethane	0.087	0.450	ND	0.664	3.455	ND	ND
127-18-4	Tetrachloroethene	0.087	0.450	ND	0.586	3.049	ND	ND
100-41-4	Ethylbenzene	0.087	0.450	ND	0.376	1.953	ND	ND
1330-20-7	m,p-Xylenes	0.087	0.450	0.350	0.376	1.953	1.519	J
95-47-6	o-Xylene	0.087	0.450	0.213	0.376	1.953	0.924	J
108-67-8	1,3,5-Trimethylbenzene	0.087	0.450	ND	0.425	2.210	ND	ND
95-63-6	1,2,4-Trimethylbenzene	0.087	0.450	ND	0.425	2.210	ND	ND

Surrogate Recovery	Spike ppbV	Measured ppbV	% Rec.	QC LCL	Limits UCL	Flag * = Out
2037-26-5 Toluene-d8	0.20	0.21	104	70	130	

ANALYTICAL REPORT

EPA Method TO-15 Modified SIM GC/MS
Analytical Method: TO15 SIM

SDG: 214502
Laboratory ID: 09

Description: H3-AA-20
Can/Tube#: 654
QC_Batch: 092414-MB1
Air Volume: 100 ml

Date Sampled: 09/22/14 Time: 16:32
Date Received: 09/24/14 Time: 13:30
Date Analyzed: 09/24/14 Time: 20:42
Can Dilution Factor: 1.88

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
75-01-4	Vinyl chloride	0.094	0.489	ND	0.240	1.249	ND	ND
75-35-4	1,1-Dichloroethene	0.094	0.489	ND	0.372	1.936	ND	ND
75-09-2	Dichloromethane	0.094	0.489	ND	0.326	1.696	ND	ND
156-60-5	trans-1,2-Dichloroethene	0.094	0.489	ND	0.372	1.936	ND	ND
1634-04-4	Methyl tert butyl ether	0.094	0.489	ND	0.339	1.760	ND	ND
75-34-3	1,1-Dichloroethane	0.094	0.489	ND	0.380	1.978	ND	ND
156-59-2	cis-1,2-Dichloroethene	0.094	0.489	ND	0.372	1.936	ND	ND
67-66-3	Chloroform	0.094	0.489	ND	0.459	2.386	ND	ND
71-55-6	1,1,1-Trichloroethane	0.094	0.489	ND	0.513	2.666	ND	ND
107-06-2	1,2-Dichloroethane	0.094	0.489	ND	0.380	1.978	ND	ND
71-43-2	Benzene	0.094	0.489	0.242	0.300	1.561	0.772	J
56-23-5	Carbon tetrachloride	0.094	0.489	ND	0.591	3.073	ND	ND
79-01-6	Trichloroethene	0.094	0.489	ND	0.505	2.626	ND	ND
108-88-3	Toluene	0.094	0.489	10.038	0.354	1.840	37.794	
106-93-4	1,2-Dibromoethane	0.094	0.489	ND	0.722	3.755	ND	ND
127-18-4	Tetrachloroethene	0.094	0.489	ND	0.637	3.313	ND	ND
100-41-4	Ethylbenzene	0.094	0.489	ND	0.408	2.122	ND	ND
1330-20-7	m,p-Xylenes	0.094	0.489	0.268	0.408	2.122	1.163	J
95-47-6	o-Xylene	0.094	0.489	0.239	0.408	2.122	1.037	J
108-67-8	1,3,5-Trimethylbenzene	0.094	0.489	ND	0.462	2.402	ND	ND
95-63-6	1,2,4-Trimethylbenzene	0.094	0.489	ND	0.462	2.402	ND	ND

Surrogate Recovery		Spike ppbV	Measured ppbV	% Rec.	QC LCL	Limits UCL	Flag * = Out
2037-26-5	Toluene-d8	0.20	0.22	111	70	130	

ANALYTICAL REPORT

EPA Method TO-15 Modified SIM GC/MS
Analytical Method: TO15 SIM

SDG: 214502
Laboratory ID: 10

Description: H3-AA-17
Can/Tube#: 533
QC_Batch: 092414-MB1
Air Volume: 100 ml

Date Sampled: 09/22/14 Time: 16:39
Date Received: 09/24/14 Time: 13:30
Date Analyzed: 09/24/14 Time: 21:08
Can Dilution Factor: 1.60

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
75-01-4	Vinyl chloride	0.080	0.416	ND	0.204	1.063	ND	ND
75-35-4	1,1-Dichloroethene	0.080	0.416	ND	0.317	1.648	ND	ND
75-09-2	Dichloromethane	0.080	0.416	ND	0.278	1.444	ND	ND
156-60-5	trans-1,2-Dichloroethene	0.080	0.416	ND	0.317	1.648	ND	ND
1634-04-4	Methyl tert butyl ether	0.080	0.416	ND	0.288	1.498	ND	ND
75-34-3	1,1-Dichloroethane	0.080	0.416	ND	0.324	1.684	ND	ND
156-59-2	cis-1,2-Dichloroethene	0.080	0.416	ND	0.317	1.648	ND	ND
67-66-3	Chloroform	0.080	0.416	ND	0.390	2.030	ND	ND
71-55-6	1,1,1-Trichloroethane	0.080	0.416	ND	0.436	2.269	ND	ND
107-06-2	1,2-Dichloroethane	0.080	0.416	ND	0.324	1.684	ND	ND
71-43-2	Benzene	0.080	0.416	0.213	0.255	1.328	0.679	J
56-23-5	Carbon tetrachloride	0.080	0.416	ND	0.503	2.615	ND	ND
79-01-6	Trichloroethene	0.080	0.416	ND	0.430	2.235	ND	ND
108-88-3	Toluene	0.080	0.416	9.674	0.301	1.566	36.424	
106-93-4	1,2-Dibromoethane	0.080	0.416	ND	0.614	3.195	ND	ND
127-18-4	Tetrachloroethene	0.080	0.416	ND	0.542	2.820	ND	ND
100-41-4	Ethylbenzene	0.080	0.416	ND	0.347	1.806	ND	ND
1330-20-7	m,p-Xylenes	0.080	0.416	0.137	0.347	1.806	0.595	J
95-47-6	o-Xylene	0.080	0.416	ND	0.347	1.806	ND	ND
108-67-8	1,3,5-Trimethylbenzene	0.080	0.416	ND	0.393	2.044	ND	ND
95-63-6	1,2,4-Trimethylbenzene	0.080	0.416	ND	0.393	2.044	ND	ND

Surrogate Recovery	Spike ppbV	Measured ppbV	% Rec.	QC LCL	Limits UCL	Flag * = Out
2037-26-5 Toluene-d8	0.20	0.23	113	70	130	

ANALYTICAL REPORT

EPA Method TO-15 Modified SIM GC/MS
Analytical Method: TO15 SIM

SDG: 214502
Laboratory ID: 11

Description: H3-AA-16
Can/Tube#: 860
QC_Batch: 092414-MB1
Air Volume: 100 ml

Date Sampled: 09/22/14 Time: 16:42
Date Received: 09/24/14 Time: 13:30
Date Analyzed: 09/24/14 Time: 21:36
Can Dilution Factor: 1.52

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
75-01-4	Vinyl chloride	0.076	0.395	ND	0.194	1.010	ND	ND
75-35-4	1,1-Dichloroethene	0.076	0.395	ND	0.301	1.565	ND	ND
75-09-2	Dichloromethane	0.076	0.395	ND	0.264	1.372	ND	ND
156-60-5	trans-1,2-Dichloroethene	0.076	0.395	ND	0.301	1.565	ND	ND
1634-04-4	Methyl tert butyl ether	0.076	0.395	ND	0.274	1.423	ND	ND
75-34-3	1,1-Dichloroethane	0.076	0.395	ND	0.308	1.599	ND	ND
156-59-2	cis-1,2-Dichloroethene	0.076	0.395	ND	0.301	1.565	ND	ND
67-66-3	Chloroform	0.076	0.395	ND	0.371	1.929	ND	ND
71-55-6	1,1,1-Trichloroethane	0.076	0.395	ND	0.414	2.155	ND	ND
107-06-2	1,2-Dichloroethane	0.076	0.395	ND	0.308	1.599	ND	ND
71-43-2	Benzene	0.076	0.395	0.380	0.243	1.262	1.213	J
56-23-5	Carbon tetrachloride	0.076	0.395	ND	0.478	2.485	ND	ND
79-01-6	Trichloroethene	0.076	0.395	0.082	0.408	2.123	0.442	J
108-88-3	Toluene	0.076	0.395	3.313	0.286	1.488	12.475	
106-93-4	1,2-Dibromoethane	0.076	0.395	ND	0.584	3.036	ND	ND
127-18-4	Tetrachloroethene	0.076	0.395	0.131	0.515	2.679	0.888	J
100-41-4	Ethylbenzene	0.076	0.395	0.267	0.330	1.716	1.160	J
1330-20-7	m,p-Xylenes	0.076	0.395	0.363	0.330	1.716	1.578	J
95-47-6	o-Xylene	0.076	0.395	0.123	0.330	1.716	0.534	J
108-67-8	1,3,5-Trimethylbenzene	0.076	0.395	ND	0.373	1.942	ND	ND
95-63-6	1,2,4-Trimethylbenzene	0.076	0.395	ND	0.373	1.942	ND	ND

Surrogate Recovery	Spike ppbV	Measured ppbV	% Rec.	QC LCL	Limits UCL	Flag * = Out
2037-26-5 Toluene-d8	0.20	0.22	111	70	130	

ANALYTICAL REPORT

EPA Method TO-15 Modified SIM GC/MS
Analytical Method: TO15 SIM

SDG: 214502
Laboratory ID: 12

Description: H3-AA-01
Can/Tube#: 692
QC_Batch: 092514-MB1
Air Volume: 100 ml

Date Sampled: 09/22/14 Time: 16:45
Date Received: 09/24/14 Time: 13:30
Date Analyzed: 09/25/14 Time: 15:25
Can Dilution Factor: 1.26

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
75-01-4	Vinyl chloride	0.063	0.328	ND	0.161	0.837	ND	ND
75-35-4	1,1-Dichloroethene	0.063	0.328	ND	0.250	1.298	ND	ND
75-09-2	Dichloromethane	0.063	0.328	0.323	0.219	1.137	1.123	J
156-60-5	trans-1,2-Dichloroethene	0.063	0.328	ND	0.250	1.298	ND	ND
1634-04-4	Methyl tert butyl ether	0.063	0.328	ND	0.227	1.180	ND	ND
75-34-3	1,1-Dichloroethane	0.063	0.328	ND	0.255	1.326	ND	ND
156-59-2	cis-1,2-Dichloroethene	0.063	0.328	ND	0.250	1.298	ND	ND
67-66-3	Chloroform	0.063	0.328	ND	0.308	1.599	ND	ND
71-55-6	1,1,1-Trichloroethane	0.063	0.328	ND	0.344	1.787	ND	ND
107-06-2	1,2-Dichloroethane	0.063	0.328	ND	0.255	1.326	ND	ND
71-43-2	Benzene	0.063	0.328	0.249	0.201	1.046	0.795	J
56-23-5	Carbon tetrachloride	0.063	0.328	0.093	0.396	2.060	0.583	J
79-01-6	Trichloroethene	0.063	0.328	0.085	0.338	1.760	0.457	J
108-88-3	Toluene	0.063	0.328	5.067	0.237	1.233	19.077	
106-93-4	1,2-Dibromoethane	0.063	0.328	ND	0.484	2.516	ND	ND
127-18-4	Tetrachloroethene	0.063	0.328	0.064	0.427	2.220	0.431	J
100-41-4	Ethylbenzene	0.063	0.328	0.421	0.274	1.422	1.828	
1330-20-7	m,p-Xylenes	0.063	0.328	0.704	0.274	1.422	3.056	
95-47-6	o-Xylene	0.063	0.328	0.181	0.274	1.422	0.787	J
108-67-8	1,3,5-Trimethylbenzene	0.063	0.328	ND	0.310	1.610	ND	ND
95-63-6	1,2,4-Trimethylbenzene	0.063	0.328	ND	0.310	1.610	ND	ND

Surrogate Recovery		Spike ppbV	Measured ppbV	% Rec.	QC LCL	Limits UCL	Flag * = Out
2037-26-5	Toluene-d8	0.20	0.21	103	70	130	

ANALYTICAL REPORT

EPA Method TO-15 Modified SIM GC/MS
Analytical Method: TO15 SIM

SDG: 214502
Laboratory ID: 13

Description: H3-AA-05
Can/Tube#: 838
QC_Batch: 092514-MB1
Air Volume: 100 ml

Date Sampled: 09/22/14 Time: 16:48
Date Received: 09/24/14 Time: 13:30
Date Analyzed: 09/25/14 Time: 15:51
Can Dilution Factor: 1.39

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
75-01-4	Vinyl chloride	0.070	0.361	ND	0.178	0.923	ND	ND
75-35-4	1,1-Dichloroethene	0.070	0.361	ND	0.275	1.432	ND	ND
75-09-2	Dichloromethane	0.070	0.361	0.418	0.241	1.254	1.452	
156-60-5	trans-1,2-Dichloroethene	0.070	0.361	ND	0.275	1.432	ND	ND
1634-04-4	Methyl tert butyl ether	0.070	0.361	ND	0.250	1.302	ND	ND
75-34-3	1,1-Dichloroethane	0.070	0.361	ND	0.281	1.463	ND	ND
156-59-2	cis-1,2-Dichloroethene	0.070	0.361	ND	0.275	1.432	ND	ND
67-66-3	Chloroform	0.070	0.361	ND	0.339	1.764	ND	ND
71-55-6	1,1,1-Trichloroethane	0.070	0.361	ND	0.379	1.971	ND	ND
107-06-2	1,2-Dichloroethane	0.070	0.361	ND	0.281	1.463	ND	ND
71-43-2	Benzene	0.070	0.361	0.348	0.222	1.154	1.112	J
56-23-5	Carbon tetrachloride	0.070	0.361	0.077	0.437	2.272	0.485	J
79-01-6	Trichloroethene	0.070	0.361	ND	0.373	1.941	ND	ND
108-88-3	Toluene	0.070	0.361	5.907	0.262	1.361	22.238	
106-93-4	1,2-Dibromoethane	0.070	0.361	ND	0.534	2.776	ND	ND
127-18-4	Tetrachloroethene	0.070	0.361	ND	0.471	2.449	ND	ND
100-41-4	Ethylbenzene	0.070	0.361	0.096	0.302	1.569	0.417	J
1330-20-7	m,p-Xylenes	0.070	0.361	0.439	0.302	1.569	1.908	
95-47-6	o-Xylene	0.070	0.361	0.121	0.302	1.569	0.527	J
108-67-8	1,3,5-Trimethylbenzene	0.070	0.361	ND	0.342	1.776	ND	ND
95-63-6	1,2,4-Trimethylbenzene	0.070	0.361	ND	0.342	1.776	ND	ND

Surrogate Recovery	Spike ppbV	Measured ppbV	% Rec.	QC LCL	Limits UCL	Flag * = Out
2037-26-5 Toluene-d8	0.20	0.21	105	70	130	

ANALYTICAL REPORT

EPA Method TO-15 Modified SIM GC/MS
Analytical Method: TO15 SIM

SDG: 214502
Laboratory ID: 14

Description: H3-AA-08
Can/Tube#: 648
QC_Batch: 092514-MB1
Air Volume: 100 ml

Date Sampled: 09/22/14 Time: 16:53
Date Received: 09/24/14 Time: 13:30
Date Analyzed: 09/25/14 Time: 16:19
Can Dilution Factor: 1.39

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
75-01-4	Vinyl chloride	0.070	0.361	ND	0.178	0.923	ND	ND
75-35-4	1,1-Dichloroethene	0.070	0.361	ND	0.275	1.432	ND	ND
75-09-2	Dichloromethane	0.070	0.361	0.255	0.241	1.254	0.885	J
156-60-5	trans-1,2-Dichloroethene	0.070	0.361	ND	0.275	1.432	ND	ND
1634-04-4	Methyl tert butyl ether	0.070	0.361	ND	0.250	1.302	ND	ND
75-34-3	1,1-Dichloroethane	0.070	0.361	ND	0.281	1.463	ND	ND
156-59-2	cis-1,2-Dichloroethene	0.070	0.361	ND	0.275	1.432	ND	ND
67-66-3	Chloroform	0.070	0.361	ND	0.339	1.764	ND	ND
71-55-6	1,1,1-Trichloroethane	0.070	0.361	ND	0.379	1.971	ND	ND
107-06-2	1,2-Dichloroethane	0.070	0.361	ND	0.281	1.463	ND	ND
71-43-2	Benzene	0.070	0.361	0.407	0.222	1.154	1.300	
56-23-5	Carbon tetrachloride	0.070	0.361	0.117	0.437	2.272	0.735	J
79-01-6	Trichloroethene	0.070	0.361	ND	0.373	1.941	ND	ND
108-88-3	Toluene	0.070	0.361	7.478	0.262	1.361	28.154	
106-93-4	1,2-Dibromoethane	0.070	0.361	ND	0.534	2.776	ND	ND
127-18-4	Tetrachloroethene	0.070	0.361	ND	0.471	2.449	ND	ND
100-41-4	Ethylbenzene	0.070	0.361	0.170	0.302	1.569	0.739	J
1330-20-7	m,p-Xylenes	0.070	0.361	0.452	0.302	1.569	1.962	
95-47-6	o-Xylene	0.070	0.361	0.277	0.302	1.569	1.203	J
108-67-8	1,3,5-Trimethylbenzene	0.070	0.361	ND	0.342	1.776	ND	ND
95-63-6	1,2,4-Trimethylbenzene	0.070	0.361	ND	0.342	1.776	ND	ND

Surrogate Recovery	Spike ppbV	Measured ppbV	% Rec.	QC LCL	Limits UCL	Flag * = Out
2037-26-5 Toluene-d8	0.20	0.22	108	70	130	

ANALYTICAL REPORT

EPA Method TO-15 Modified SIM GC/MS
Analytical Method: TO15 SIM

SDG: 214502
Laboratory ID: 15

Description: H3-AA-10
Can/Tube#: 627
QC_Batch: 092514-MB1
Air Volume: 100 ml

Date Sampled: 09/22/14 Time: 16:55
Date Received: 09/24/14 Time: 13:30
Date Analyzed: 09/25/14 Time: 16:45
Can Dilution Factor: 1.48

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
75-01-4	Vinyl chloride	0.074	0.385	ND	0.189	0.983	ND	ND
75-35-4	1,1-Dichloroethene	0.074	0.385	ND	0.293	1.524	ND	ND
75-09-2	Dichloromethane	0.074	0.385	0.397	0.257	1.336	1.377	
156-60-5	trans-1,2-Dichloroethene	0.074	0.385	ND	0.293	1.524	ND	ND
1634-04-4	Methyl tert butyl ether	0.074	0.385	ND	0.267	1.386	ND	ND
75-34-3	1,1-Dichloroethane	0.074	0.385	ND	0.299	1.557	ND	ND
156-59-2	cis-1,2-Dichloroethene	0.074	0.385	ND	0.293	1.524	ND	ND
67-66-3	Chloroform	0.074	0.385	ND	0.361	1.878	ND	ND
71-55-6	1,1,1-Trichloroethane	0.074	0.385	ND	0.404	2.098	ND	ND
107-06-2	1,2-Dichloroethane	0.074	0.385	ND	0.299	1.557	ND	ND
71-43-2	Benzene	0.074	0.385	0.213	0.236	1.229	0.680	J
56-23-5	Carbon tetrachloride	0.074	0.385	0.099	0.465	2.419	0.621	J
79-01-6	Trichloroethene	0.074	0.385	ND	0.397	2.067	ND	ND
108-88-3	Toluene	0.074	0.385	21.053	0.279	1.449	79.266	
106-93-4	1,2-Dibromoethane	0.074	0.385	ND	0.568	2.956	ND	ND
127-18-4	Tetrachloroethene	0.074	0.385	ND	0.502	2.608	ND	ND
100-41-4	Ethylbenzene	0.074	0.385	0.152	0.321	1.671	0.658	J
1330-20-7	m,p-Xylenes	0.074	0.385	0.432	0.321	1.671	1.877	
95-47-6	o-Xylene	0.074	0.385	0.172	0.321	1.671	0.747	J
108-67-8	1,3,5-Trimethylbenzene	0.074	0.385	ND	0.364	1.891	ND	ND
95-63-6	1,2,4-Trimethylbenzene	0.074	0.385	0.103	0.364	1.891	0.505	J

Surrogate Recovery	Spike ppbV	Measured ppbV	% Rec.	QC LCL	Limits UCL	Flag * = Out
2037-26-5 Toluene-d8	0.20	0.22	109	70	130	

ANALYTICAL REPORT

EPA Method TO-15 Modified SIM GC/MS
Analytical Method: TO15 SIM

SDG: 214502
Laboratory ID: 17

Description: H2-AA-07
Can/Tube#: 548
QC_Batch: 092514-MB1
Air Volume: 100 ml

Date Sampled: 09/22/14 Time: 17:03
Date Received: 09/24/14 Time: 13:30
Date Analyzed: 09/25/14 Time: 17:19
Can Dilution Factor: 1.21

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
75-01-4	Vinyl chloride	0.061	0.315	ND	0.155	0.804	ND	ND
75-35-4	1,1-Dichloroethene	0.061	0.315	ND	0.240	1.246	ND	ND
75-09-2	Dichloromethane	0.061	0.315	0.415	0.210	1.092	1.441	
156-60-5	trans-1,2-Dichloroethene	0.061	0.315	ND	0.240	1.246	ND	ND
1634-04-4	Methyl tert butyl ether	0.061	0.315	ND	0.218	1.133	ND	ND
75-34-3	1,1-Dichloroethane	0.061	0.315	ND	0.245	1.273	ND	ND
156-59-2	cis-1,2-Dichloroethene	0.061	0.315	ND	0.240	1.246	ND	ND
67-66-3	Chloroform	0.061	0.315	ND	0.295	1.536	ND	ND
71-55-6	1,1,1-Trichloroethane	0.061	0.315	ND	0.330	1.716	ND	ND
107-06-2	1,2-Dichloroethane	0.061	0.315	ND	0.245	1.273	ND	ND
71-43-2	Benzene	0.061	0.315	0.165	0.193	1.004	0.526	J
56-23-5	Carbon tetrachloride	0.061	0.315	0.087	0.380	1.978	0.550	J
79-01-6	Trichloroethene	0.061	0.315	ND	0.325	1.690	ND	ND
108-88-3	Toluene	0.061	0.315	3.355	0.228	1.184	12.631	
106-93-4	1,2-Dibromoethane	0.061	0.315	ND	0.465	2.417	ND	ND
127-18-4	Tetrachloroethene	0.061	0.315	ND	0.410	2.132	ND	ND
100-41-4	Ethylbenzene	0.061	0.315	ND	0.263	1.366	ND	ND
1330-20-7	m,p-Xylenes	0.061	0.315	0.106	0.263	1.366	0.459	J
95-47-6	o-Xylene	0.061	0.315	ND	0.263	1.366	ND	ND
108-67-8	1,3,5-Trimethylbenzene	0.061	0.315	ND	0.297	1.546	ND	ND
95-63-6	1,2,4-Trimethylbenzene	0.061	0.315	0.068	0.297	1.546	0.334	J

Surrogate Recovery		Spike ppbV	Measured ppbV	% Rec.	QC LCL	Limits UCL	Flag * = Out
2037-26-5	Toluene-d8	0.20	0.20	101	70	130	

ANALYTICAL REPORT

EPA Method TO-15 Modified SIM GC/MS
Analytical Method: TO15 SIM

SDG: 214502
Laboratory ID: 18

Description: H2-AA-08
Can/Tube#: 847
QC_Batch: 092514-MB1
Air Volume: 100 ml

Date Sampled: 09/22/14 Time: 17:05
Date Received: 09/24/14 Time: 13:30
Date Analyzed: 09/25/14 Time: 17:45
Can Dilution Factor: 1.51

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
75-01-4	Vinyl chloride	0.076	0.393	ND	0.193	1.003	ND	ND
75-35-4	1,1-Dichloroethene	0.076	0.393	ND	0.299	1.555	ND	ND
75-09-2	Dichloromethane	0.076	0.393	0.709	0.262	1.363	2.462	
156-60-5	trans-1,2-Dichloroethene	0.076	0.393	ND	0.299	1.555	ND	ND
1634-04-4	Methyl tert butyl ether	0.076	0.393	ND	0.272	1.414	ND	ND
75-34-3	1,1-Dichloroethane	0.076	0.393	ND	0.306	1.589	ND	ND
156-59-2	cis-1,2-Dichloroethene	0.076	0.393	ND	0.299	1.555	ND	ND
67-66-3	Chloroform	0.076	0.393	ND	0.369	1.916	ND	ND
71-55-6	1,1,1-Trichloroethane	0.076	0.393	ND	0.412	2.141	ND	ND
107-06-2	1,2-Dichloroethane	0.076	0.393	ND	0.306	1.589	ND	ND
71-43-2	Benzene	0.076	0.393	0.274	0.241	1.253	0.874	J
56-23-5	Carbon tetrachloride	0.076	0.393	0.091	0.475	2.468	0.575	J
79-01-6	Trichloroethene	0.076	0.393	ND	0.406	2.109	ND	ND
108-88-3	Toluene	0.076	0.393	12.886	0.284	1.478	48.515	
106-93-4	1,2-Dibromoethane	0.076	0.393	ND	0.580	3.016	ND	ND
127-18-4	Tetrachloroethene	0.076	0.393	ND	0.512	2.661	ND	ND
100-41-4	Ethylbenzene	0.076	0.393	ND	0.328	1.704	ND	ND
1330-20-7	m,p-Xylenes	0.076	0.393	0.181	0.328	1.704	0.784	J
95-47-6	o-Xylene	0.076	0.393	0.079	0.328	1.704	0.343	J
108-67-8	1,3,5-Trimethylbenzene	0.076	0.393	ND	0.371	1.929	ND	ND
95-63-6	1,2,4-Trimethylbenzene	0.076	0.393	ND	0.371	1.929	ND	ND

Surrogate Recovery	Spike ppbV	Measured ppbV	% Rec.	QC LCL	Limits UCL	Flag * = Out
2037-26-5 Toluene-d8	0.20	0.20	102	70	130	

ANALYTICAL REPORT

EPA Method TO-15 Modified SIM GC/MS
Analytical Method: TO15 SIM

SDG: 214502
Laboratory ID: 19

Description: H2-AA-09
Can/Tube#: 507
QC_Batch: 092514-MB1
Air Volume: 100 ml

Date Sampled: 09/22/14 Time: 17:09
Date Received: 09/24/14 Time: 13:30
Date Analyzed: 09/25/14 Time: 18:11
Can Dilution Factor: 1.30

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
75-01-4	Vinyl chloride	0.065	0.338	ND	0.166	0.864	ND	ND
75-35-4	1,1-Dichloroethene	0.065	0.338	ND	0.257	1.339	ND	ND
75-09-2	Dichloromethane	0.065	0.338	0.822	0.226	1.173	2.854	
156-60-5	trans-1,2-Dichloroethene	0.065	0.338	ND	0.257	1.339	ND	ND
1634-04-4	Methyl tert butyl ether	0.065	0.338	ND	0.234	1.217	ND	ND
75-34-3	1,1-Dichloroethane	0.065	0.338	ND	0.263	1.368	ND	ND
156-59-2	cis-1,2-Dichloroethene	0.065	0.338	ND	0.257	1.339	ND	ND
67-66-3	Chloroform	0.065	0.338	ND	0.317	1.650	ND	ND
71-55-6	1,1,1-Trichloroethane	0.065	0.338	ND	0.354	1.843	ND	ND
107-06-2	1,2-Dichloroethane	0.065	0.338	ND	0.263	1.368	ND	ND
71-43-2	Benzene	0.065	0.338	0.266	0.208	1.079	0.849	J
56-23-5	Carbon tetrachloride	0.065	0.338	0.098	0.409	2.125	0.619	J
79-01-6	Trichloroethene	0.065	0.338	ND	0.349	1.816	ND	ND
108-88-3	Toluene	0.065	0.338	9.860	0.245	1.273	37.122	
106-93-4	1,2-Dibromoethane	0.065	0.338	ND	0.499	2.596	ND	ND
127-18-4	Tetrachloroethene	0.065	0.338	ND	0.441	2.291	ND	ND
100-41-4	Ethylbenzene	0.065	0.338	ND	0.282	1.467	ND	ND
1330-20-7	m,p-Xylenes	0.065	0.338	0.254	0.282	1.467	1.102	J
95-47-6	o-Xylene	0.065	0.338	0.066	0.282	1.467	0.285	J
108-67-8	1,3,5-Trimethylbenzene	0.065	0.338	ND	0.319	1.661	ND	ND
95-63-6	1,2,4-Trimethylbenzene	0.065	0.338	0.073	0.319	1.661	0.358	J

Surrogate Recovery	Spike ppbV	Measured ppbV	% Rec.	QC LCL	Limits UCL	Flag * = Out
2037-26-5 Toluene-d8	0.20	0.22	109	70	130	

ANALYTICAL REPORT

EPA Method TO-15 Modified SIM GC/MS
Analytical Method: TO15 SIM

SDG: 214502
Laboratory ID: 20

Description: H2-AA-04E
Can/Tube#: 512
QC_Batch: 092514-MB1
Air Volume: 100 ml

Date Sampled: 09/22/14 Time: 17:10
Date Received: 09/24/14 Time: 13:30
Date Analyzed: 09/25/14 Time: 19:03
Can Dilution Factor: 1.43

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
75-01-4	Vinyl chloride	0.072	0.372	ND	0.183	0.950	ND	ND
75-35-4	1,1-Dichloroethene	0.072	0.372	ND	0.283	1.473	ND	ND
75-09-2	Dichloromethane	0.072	0.372	1.155	0.248	1.290	4.009	
156-60-5	trans-1,2-Dichloroethene	0.072	0.372	ND	0.283	1.473	ND	ND
1634-04-4	Methyl tert butyl ether	0.072	0.372	ND	0.258	1.339	ND	ND
75-34-3	1,1-Dichloroethane	0.072	0.372	ND	0.289	1.505	ND	ND
156-59-2	cis-1,2-Dichloroethene	0.072	0.372	ND	0.283	1.473	ND	ND
67-66-3	Chloroform	0.072	0.372	ND	0.349	1.815	ND	ND
71-55-6	1,1,1-Trichloroethane	0.072	0.372	ND	0.390	2.028	ND	ND
107-06-2	1,2-Dichloroethane	0.072	0.372	ND	0.289	1.505	ND	ND
71-43-2	Benzene	0.072	0.372	0.203	0.228	1.187	0.649	J
56-23-5	Carbon tetrachloride	0.072	0.372	0.087	0.450	2.338	0.546	J
79-01-6	Trichloroethene	0.072	0.372	ND	0.384	1.997	ND	ND
108-88-3	Toluene	0.072	0.372	14.318	0.269	1.400	53.907	
106-93-4	1,2-Dibromoethane	0.072	0.372	ND	0.549	2.856	ND	ND
127-18-4	Tetrachloroethene	0.072	0.372	ND	0.485	2.520	ND	ND
100-41-4	Ethylbenzene	0.072	0.372	0.119	0.310	1.614	0.515	J
1330-20-7	m,p-Xylenes	0.072	0.372	0.165	0.310	1.614	0.717	J
95-47-6	o-Xylene	0.072	0.372	0.143	0.310	1.614	0.622	J
108-67-8	1,3,5-Trimethylbenzene	0.072	0.372	ND	0.351	1.827	ND	ND
95-63-6	1,2,4-Trimethylbenzene	0.072	0.372	ND	0.351	1.827	ND	ND

Surrogate Recovery	Spike ppbV	Measured ppbV	% Rec.	QC LCL	Limits UCL	Flag * = Out
2037-26-5 Toluene-d8	0.20	0.21	106	70	130	

ANALYTICAL REPORT

EPA Method TO-15 Modified SIM GC/MS
Analytical Method: TO15 SIM

SDG: 214502
Laboratory ID: 21

Description: H2-AA-03
Can/Tube#: 724
QC_Batch: 092514-MB1
Air Volume: 100 ml

Date Sampled: 09/22/14 Time: 17:12
Date Received: 09/24/14 Time: 13:30
Date Analyzed: 09/25/14 Time: 19:28
Can Dilution Factor: 1.25

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
75-01-4	Vinyl chloride	0.063	0.325	ND	0.160	0.830	ND	ND
75-35-4	1,1-Dichloroethene	0.063	0.325	ND	0.248	1.287	ND	ND
75-09-2	Dichloromethane	0.063	0.325	0.773	0.217	1.128	2.682	
156-60-5	trans-1,2-Dichloroethene	0.063	0.325	ND	0.248	1.287	ND	ND
1634-04-4	Methyl tert butyl ether	0.063	0.325	ND	0.225	1.170	ND	ND
75-34-3	1,1-Dichloroethane	0.063	0.325	ND	0.253	1.315	ND	ND
156-59-2	cis-1,2-Dichloroethene	0.063	0.325	ND	0.248	1.287	ND	ND
67-66-3	Chloroform	0.063	0.325	0.107	0.305	1.586	0.524	J
71-55-6	1,1,1-Trichloroethane	0.063	0.325	ND	0.341	1.772	ND	ND
107-06-2	1,2-Dichloroethane	0.063	0.325	ND	0.253	1.315	ND	ND
71-43-2	Benzene	0.063	0.325	0.907	0.200	1.038	2.896	
56-23-5	Carbon tetrachloride	0.063	0.325	0.071	0.393	2.043	0.448	J
79-01-6	Trichloroethene	0.063	0.325	ND	0.336	1.746	ND	ND
108-88-3	Toluene	0.063	0.325	9.791	0.235	1.224	36.865	
106-93-4	1,2-Dibromoethane	0.063	0.325	ND	0.480	2.496	ND	ND
127-18-4	Tetrachloroethene	0.063	0.325	ND	0.424	2.203	ND	ND
100-41-4	Ethylbenzene	0.063	0.325	0.480	0.271	1.411	2.083	
1330-20-7	m,p-Xylenes	0.063	0.325	1.207	0.271	1.411	5.238	
95-47-6	o-Xylene	0.063	0.325	0.462	0.271	1.411	2.006	
108-67-8	1,3,5-Trimethylbenzene	0.063	0.325	0.152	0.307	1.597	0.745	J
95-63-6	1,2,4-Trimethylbenzene	0.063	0.325	0.401	0.307	1.597	1.973	

Surrogate Recovery		Spike ppbV	Measured ppbV	% Rec.	QC LCL	Limits UCL	Flag * = Out
2037-26-5	Toluene-d8	0.20	0.20	101	70	130	

ANALYTICAL REPORT

EPA Method TO-15 Modified SIM GC/MS
Analytical Method: TO15 SIM

SDG: 214502
Laboratory ID: 22

Description: H2-AA-02
Can/Tube#: 800
QC_Batch: 092514-MB1
Air Volume: 100 ml

Date Sampled: 09/22/14 Time: 17:14
Date Received: 09/24/14 Time: 13:30
Date Analyzed: 09/25/14 Time: 19:56
Can Dilution Factor: 1.25

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
75-01-4	Vinyl chloride	0.063	0.325	ND	0.160	0.830	ND	ND
75-35-4	1,1-Dichloroethene	0.063	0.325	ND	0.248	1.287	ND	ND
75-09-2	Dichloromethane	0.063	0.325	1.335	0.217	1.128	4.632	
156-60-5	trans-1,2-Dichloroethene	0.063	0.325	ND	0.248	1.287	ND	ND
1634-04-4	Methyl tert butyl ether	0.063	0.325	ND	0.225	1.170	ND	ND
75-34-3	1,1-Dichloroethane	0.063	0.325	ND	0.253	1.315	ND	ND
156-59-2	cis-1,2-Dichloroethene	0.063	0.325	ND	0.248	1.287	ND	ND
67-66-3	Chloroform	0.063	0.325	ND	0.305	1.586	ND	ND
71-55-6	1,1,1-Trichloroethane	0.063	0.325	ND	0.341	1.772	ND	ND
107-06-2	1,2-Dichloroethane	0.063	0.325	ND	0.253	1.315	ND	ND
71-43-2	Benzene	0.063	0.325	0.414	0.200	1.038	1.322	
56-23-5	Carbon tetrachloride	0.063	0.325	0.145	0.393	2.043	0.911	J
79-01-6	Trichloroethene	0.063	0.325	ND	0.336	1.746	ND	ND
108-88-3	Toluene	0.063	0.325	12.124	0.235	1.224	45.645	
106-93-4	1,2-Dibromoethane	0.063	0.325	ND	0.480	2.496	ND	ND
127-18-4	Tetrachloroethene	0.063	0.325	ND	0.424	2.203	ND	ND
100-41-4	Ethylbenzene	0.063	0.325	ND	0.271	1.411	ND	ND
1330-20-7	m,p-Xylenes	0.063	0.325	0.115	0.271	1.411	0.500	J
95-47-6	o-Xylene	0.063	0.325	0.119	0.271	1.411	0.515	J
108-67-8	1,3,5-Trimethylbenzene	0.063	0.325	ND	0.307	1.597	ND	ND
95-63-6	1,2,4-Trimethylbenzene	0.063	0.325	0.137	0.307	1.597	0.672	J

Surrogate Recovery	Spike ppbV	Measured ppbV	% Rec.	QC LCL	Limits UCL	Flag * = Out
2037-26-5 Toluene-d8	0.20	0.21	106	70	130	

ANALYTICAL REPORT

EPA Method TO-15 Modified SIM GC/MS
Analytical Method: TO15 SIM

SDG: 214502
Laboratory ID: 23

Description: H2-AA-10W
Can/Tube#: 817
QC_Batch: 092514-MB1
Air Volume: 100 ml

Date Sampled: 09/22/14 Time: 17:18
Date Received: 09/24/14 Time: 13:30
Date Analyzed: 09/25/14 Time: 20:21
Can Dilution Factor: 1.28

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
75-01-4	Vinyl chloride	0.064	0.333	ND	0.164	0.850	ND	ND
75-35-4	1,1-Dichloroethene	0.064	0.333	ND	0.254	1.318	ND	ND
75-09-2	Dichloromethane	0.064	0.333	0.452	0.222	1.155	1.567	
156-60-5	trans-1,2-Dichloroethene	0.064	0.333	ND	0.254	1.318	ND	ND
1634-04-4	Methyl tert butyl ether	0.064	0.333	ND	0.230	1.199	ND	ND
75-34-3	1,1-Dichloroethane	0.064	0.333	ND	0.259	1.347	ND	ND
156-59-2	cis-1,2-Dichloroethene	0.064	0.333	ND	0.254	1.318	ND	ND
67-66-3	Chloroform	0.064	0.333	ND	0.312	1.624	ND	ND
71-55-6	1,1,1-Trichloroethane	0.064	0.333	ND	0.349	1.815	ND	ND
107-06-2	1,2-Dichloroethane	0.064	0.333	ND	0.259	1.347	ND	ND
71-43-2	Benzene	0.064	0.333	0.316	0.204	1.063	1.010	J
56-23-5	Carbon tetrachloride	0.064	0.333	0.081	0.402	2.092	0.509	J
79-01-6	Trichloroethene	0.064	0.333	ND	0.344	1.788	ND	ND
108-88-3	Toluene	0.064	0.333	9.491	0.241	1.253	35.734	
106-93-4	1,2-Dibromoethane	0.064	0.333	ND	0.492	2.556	ND	ND
127-18-4	Tetrachloroethene	0.064	0.333	ND	0.434	2.256	ND	ND
100-41-4	Ethylbenzene	0.064	0.333	ND	0.278	1.445	ND	ND
1330-20-7	m,p-Xylenes	0.064	0.333	0.085	0.278	1.445	0.369	J
95-47-6	o-Xylene	0.064	0.333	ND	0.278	1.445	ND	ND
108-67-8	1,3,5-Trimethylbenzene	0.064	0.333	ND	0.314	1.635	ND	ND
95-63-6	1,2,4-Trimethylbenzene	0.064	0.333	ND	0.314	1.635	ND	ND

Surrogate Recovery		Spike ppbV	Measured ppbV	% Rec.	QC LCL	Limits UCL	Flag * = Out
2037-26-5	Toluene-d8	0.20	0.22	108	70	130	

ANALYTICAL REPORT

EPA Method TO-15 Modified SIM GC/MS
Analytical Method: TO15 SIM

SDG: 214502
Laboratory ID: 24

Description: H2-AA-06
Can/Tube#: 778
QC_Batch: 092514-MB1
Air Volume: 100 ml

Date Sampled: 09/22/14 Time: 17:20
Date Received: 09/24/14 Time: 13:30
Date Analyzed: 09/25/14 Time: 20:47
Can Dilution Factor: 1.28

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
75-01-4	Vinyl chloride	0.064	0.333	ND	0.164	0.850	ND	ND
75-35-4	1,1-Dichloroethene	0.064	0.333	ND	0.254	1.318	ND	ND
75-09-2	Dichloromethane	0.064	0.333	0.210	0.222	1.155	0.728	J
156-60-5	trans-1,2-Dichloroethene	0.064	0.333	ND	0.254	1.318	ND	ND
1634-04-4	Methyl tert butyl ether	0.064	0.333	ND	0.230	1.199	ND	ND
75-34-3	1,1-Dichloroethane	0.064	0.333	ND	0.259	1.347	ND	ND
156-59-2	cis-1,2-Dichloroethene	0.064	0.333	ND	0.254	1.318	ND	ND
67-66-3	Chloroform	0.064	0.333	ND	0.312	1.624	ND	ND
71-55-6	1,1,1-Trichloroethane	0.064	0.333	ND	0.349	1.815	ND	ND
107-06-2	1,2-Dichloroethane	0.064	0.333	ND	0.259	1.347	ND	ND
71-43-2	Benzene	0.064	0.333	0.420	0.204	1.063	1.342	
56-23-5	Carbon tetrachloride	0.064	0.333	0.117	0.402	2.092	0.733	J
79-01-6	Trichloroethene	0.064	0.333	22.615	0.344	1.788	121.480	
108-88-3	Toluene	0.064	0.333	8.175	0.241	1.253	30.780	
106-93-4	1,2-Dibromoethane	0.064	0.333	ND	0.492	2.556	ND	ND
127-18-4	Tetrachloroethene	0.064	0.333	1.893	0.434	2.256	12.832	
100-41-4	Ethylbenzene	0.064	0.333	ND	0.278	1.445	ND	ND
1330-20-7	m,p-Xylenes	0.064	0.333	ND	0.278	1.445	ND	ND
95-47-6	o-Xylene	0.064	0.333	ND	0.278	1.445	ND	ND
108-67-8	1,3,5-Trimethylbenzene	0.064	0.333	ND	0.314	1.635	ND	ND
95-63-6	1,2,4-Trimethylbenzene	0.064	0.333	ND	0.314	1.635	ND	ND

Surrogate Recovery		Spike ppbV	Measured ppbV	% Rec.	QC LCL	Limits UCL	Flag * = Out
2037-26-5	Toluene-d8	0.20	0.22	111	70	130	

Laboratory Report

Project Name:

H2, Room 242 Air

EAS SDG Number: 214585

Task:

Client Project Manager: Mack Patterson

Prepared For:

Earth Resources Technology
M/S T20G-4 Rm 135, NASA Ames Research Ct
Moffett Field CA 94035-1000

Project Number: 16592

Sample Event Date: 10/29/2014

Received Date: 11/3/2014

Report Date: 11/7/2014

Project Number: 3602-750

PO Number: 3602-750

This is the Laboratory Report for the samples in the indicated Sample Delivery Group (SDG). Each sample received in the group is assigned a Laboratory ID number. The combination of the SDG number and the Lab ID number is a unique identifier for the sample.

This Report Contains:

- Laboratory Work Order
- Project Sample Media
- Laboratory Case Narrative and Chain of Custody
- Method Description (when applicable)
- Quality Control Reports
- Analytical Reports

Laboratory Work Order

SDG Number: 214585

Project Number: 16592

Project Manager: Mack Patterson

Received: 11/3/2014

Client: Earth Resource Technology

SAMPLE DESCRIPTION AND ANALYSIS REQUESTED

Client Sample ID	EAS Lab No.	Analysis Requested	Date Sampled
H2-AA-06	214585 1	EPA TO-15 SIM Short List	10/29/2014
H2-AA-06E	214585 2	EPA TO-15 SIM Short List	10/29/2014
H2-AA-06W	214585 3	EPA TO-15 SIM Short List	10/29/2014
H2-AA-06H	214585 4	EPA TO-15 SIM Short List	10/29/2014

Project Sample Media

SDG Number: 214585

The following sample media was used for this Sample Delivery Group (SDG). The Sample Media column identifies the type of media. For canisters, the Sample Media Batch gives the canister number followed by the cleaning batch number, which is a unique identification. Canisters that are received with sub-ambient pressures are pressurized to about 5 psig. The initial pressure of the canister when it is received is recorded along with the final pressure after pressurization. The canister dilution factor is the ratio of the final to initial pressure. The results are adjusted for the can dilution factor.

SDG	Lab ID	Client Sample No.	Sample		Pressure, torr		Can Factor
			Media	Batch	Initial	Final	
214585	1	H2-AA-06	537	102714Z	586	990	1.69
214585	2	H2-AA-06E	524	102714Z	587	963	1.64
214585	3	H2-AA-06W	715	102714Z	523	940	1.80
214585	4	H2-AA-06H	532	101014B	547	969	1.77

Laboratory Case Narrative

EAS SDG Number: 214585

Project Number: 16592

Client: Earth Resource Technology

The Laboratory Case Narrative for the SDG is below. The Chain of Custody form(s) follow the Case Narrative.

Sample Control Narrative

The samples were all received in good condition and with proper preservation.

Test Methods

The methods used for sample analysis are listed on the Analytical Report header. Most methods are a modification of the agency method, and the modifications are described in the EAS Quality Manual along with the QC criteria used for the method. Project specific modifications to the methods or project specific QC may override the EAS modification

QC Narrative

All analyses met EAS method criteria as defined in the Quality Manual, except as noted in the report or QC reports with data qualifiers.

Subcontract Narrative

No sample analysis was subcontracted for this project

Laboratory Certification

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness other than the condition(s) noted above. The Laboratory Report is property of EAS and its client. The entire report has been reviewed and approved.



Date Approved: 11/7/2014

Steven D. Hoyt, Ph.D.
Environmental Analytical Service
Laboratory Director

CHAIN OF CUSTODY RECORD

Project Number 3602-750		Project Name: H2, Room 242 Air		Quote Number:													
REPORT TO:						MATRIX LEGEND (A) Ambient Air, Low Level I Indoor Air S Source Air, High Level G Gas/Product	INITIAL PRESSURE	FINAL PRESSURE	EAS LABORATORY ID	ANALYTICAL TESTS							
Company ERT, INC.										TO15 - LOW SIM	shelf C						
Address NASA Ames, MST20G-4																	
City/State/Zip Moffett Field, CA. 94035																	
Phone 650/604-2057 (FAX)																	
ATTENTION joseph.r.lukes@nasa.gov						REMARKS (X)											
SAMPLE DESCRIPTION	SAMPLE DATE	SAMPLE TIME (X)	CANISTER NUMBER	COMP	GRAB		MATRIX				P1	P2	REMARKS (X)				
							A	I	S	G							
H2-AA-06	10-29-14	1652	537	X	X						-26	-3	214585-01	X	586	990	8 hr. 37 min
H2-AA-06E		1651	524		X						-30	-10	-02	X	587	763	8 hr. 34 min
H2-AA-06W	↓	1653	715	↓	X					-30	-11	-03	X	523	940	8 hr. 37 min	
H2-AA-06H	10-29-14	1650	532	X	X					-30	-10	-04	X	547	969	8 hr. 32 min	
COMMENTS																	
BILLING INFORMATION																	
Company ERT, INC.						SAMPLED BY: JR. Lukes		Date Time: 10/29/14 1700		Received by:		Date Time					
Address 14401 Sweitzer Ln. #300						Relinquished By: JR. Lukes		Date Time: 10/30/14 0900		Received by:		Date Time					
City/State/Zip Laurel, MD 20707						Relinquished By:		Date Time:		Received by:		Date Time					
ATTENTION Laurie Truesdale						Relinquished By:		Date Time:		Received for lab by: Justine King		Date Time: 11/3/14 11:30					
Purchase Order/Billing Reference 3602-750																	

Quality Control Report

EAS SDG Number: 214585

Project Number: 16592

QC Narrative

Samples were analyzed in a daily analytical batch (DAB) designated by a QC batch number, and were analyzed using EAS standard laboratory QC specified in the EAS Quality Manual. Any deviations from the QC are flagged in the Laboratory Control Reports or in the sample Analytical

Standard Laboratory QC Report

Unless project specific QC was requested, this Section containing the standard laboratory QC (Level 2) supplied with the Analytical Reports. Each sample is analyzed in a Daily Analytical Batch (DAB) which includes the method blank, a laboratory control spike (LCS) and a laboratory control duplicate (LCD). A Daily Analytical Batch QC report is supplied for each method requested.

Method Blank

A method blank is a laboratory generated sample which assesses the degree to which laboratory operations and procedures cause a false positive. In the method blank, compounds should be present below the reporting limit (RL). Compounds present above the RL are flagged with a "B" in the Analytical Reports in that batch.

Laboratory Control Spike

A laboratory control spike is a well characterized matrix similar to the sample which is spiked and run in duplicate with each Daily Analytical Batch. The laboratory control spike results are reported as a percent recovery. The QC Criteria for the control spike is listed in the Laboratory Control Report. Any results outside the control limits are flagged with a "Q" on the Laboratory Control Report. The control spike contains an abbreviated list of compounds in the method, and may contain compounds not on the target list for the specified report.

Laboratory Control Duplicate

The laboratory control duplicate is a duplicate analysis of the laboratory control spike, a standard, or a sample depending on the method. The results are reported as a relative percent difference (RPD). The criteria for the duplicate is in the Laboratory Control Report for the Daily Analytical Batch. Any results outside the control limits are flagged with a "Q" on the Laboratory Control Report.

METHOD BLANK REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified SIM GC/MS
Analytical Method: TO15 SIM

SDG: LABQC
Laboratory ID: B11054

Description: METHOD BLANK

Can/Tube#:

QC_Batch: 110514-MB1

Air Volume: 20 ml

Date Sampled:

Date Received:

Date Analyzed: 11/05/14

Can Dilution Factor: 1.00

Time:

Time:

Time: 16:14

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
75-01-4	Vinyl chloride	0.250	1.300	ND	0.639	3.321	ND	ND
75-35-4	1,1-Dichloroethene	0.250	1.300	ND	0.990	5.150	ND	ND
75-09-2	Dichloromethane	0.250	1.300	ND	0.868	4.512	ND	ND
156-60-5	trans-1,2-Dichloroethene	0.250	1.300	ND	0.990	5.150	ND	ND
1634-04-4	Methyl tert butyl ether	0.250	1.300	ND	0.900	4.682	ND	ND
75-34-3	1,1-Dichloroethane	0.250	1.300	ND	1.012	5.261	ND	ND
156-59-2	cis-1,2-Dichloroethene	0.250	1.300	ND	0.990	5.150	ND	ND
67-66-3	Chloroform	0.250	1.300	ND	1.220	6.345	ND	ND
71-55-6	1,1,1-Trichloroethane	0.250	1.300	ND	1.363	7.089	ND	ND
107-06-2	1,2-Dichloroethane	0.250	1.300	ND	1.012	5.261	ND	ND
71-43-2	Benzene	0.250	1.300	ND	0.798	4.150	ND	ND
56-23-5	Carbon tetrachloride	0.250	1.300	ND	1.572	8.173	ND	ND
79-01-6	Trichloroethene	0.250	1.300	ND	1.343	6.983	ND	ND
108-88-3	Toluene	0.250	1.300	ND	0.941	4.894	ND	ND
106-93-4	1,2-Dibromoethane	0.250	1.300	ND	1.920	9.986	ND	ND
127-18-4	Tetrachloroethene	0.250	1.300	ND	1.694	8.811	ND	ND
100-41-4	Ethylbenzene	0.250	1.300	ND	1.085	5.644	ND	ND
1330-20-7	m,p-Xylenes	0.250	1.300	ND	1.085	5.644	ND	ND
95-47-6	o-Xylene	0.250	1.300	ND	1.085	5.644	ND	ND
108-67-8	1,3,5-Trimethylbenzene	0.250	1.300	ND	1.228	6.388	ND	ND
95-63-6	1,2,4-Trimethylbenzene	0.250	1.300	ND	1.228	6.388	ND	ND

Surrogate Recovery	Spike ppbV	Measured ppbV	% Rec.	QC LCL	Limits UCL	Flag * = Out
2037-26-5 Toluene-d8	0.20	0.24	119	70	130	

QUALITY CONTROL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

LABORATORY CONTROL SPIKE AND SPIKE DUPLICATE REPORT

EPA Method TO-15 Modified SIM GC/MS

Analytical Method: TO15 SIM

Date: 11/05/14

QC_Batch: 110514-MB1

CAS#	Compound	LCS		LCD		Spike Limit		Duplicate	
		Recovery	Flag	Recovery	Flag	LCL	UCL	Duplicate	Limit
		%		%		%	%	%	Flag
75-01-4	Vinyl chloride	90		112		70	130	13	25
75-35-4	1,1-Dichloroethene	107		97		70	130	6	25
75-09-2	Dichloromethane	86		109		70	130	12	25
75-34-3	1,1-Dichloroethane	86		112		70	130	15	25
67-66-3	Chloroform	88		119		70	130	17	25
71-55-6	1,1,1-Trichloroethane	90		106		70	130	7	25
107-06-2	1,2-Dichloroethane	106		115		70	130	3	25
71-43-2	Benzene	98		113		70	130	8	25
56-23-5	Carbon tetrachloride	94		108		70	130	6	25
79-01-6	Trichloroethene	116		97		70	130	12	25
108-88-3	Toluene	120		99		70	130	13	25
127-18-4	Tetrachloroethene	86		106		70	130	7	25
100-41-4	Ethylbenzene	88		112		70	130	17	25
1330-20-7	m,p-Xylenes	90		108		70	130	14	25
95-47-6	o-Xylene	86		112		70	130	18	25
108-67-8	1,3,5-Trimethylbenzene	94		107		70	130	10	25

LCS - Laboratory Control Spike

LCD - Laboratory Control Duplicate

Flag - Q indicated out of Limit

Analytical Reports

EAS SDG Number: 214585

Project Number: 16592

The following pages contain the certified Analytical Reports for the samples submitted in the Sample Delivery Group (SDG) and are in order of the EAS Lab ID number. All of the analytical methods used are modifications of the published methods. Procedural method modifications are listed in the method descriptions, and the QC modifications are in the QC Criteria table in the EAS Quality Manual.

The Analytical Report has columns for the method detection limit (MDL), the reporting limit (RL), and the Amount. The Amount is the concentration of the compound in the sample. The report usually has the results reported with two commonly used units. The MDL, RL, and Amount are adjusted for the canister dilution factor and any dilution caused by sample matrix effects.

DETECTION LIMITS

MDL: The MDL is initially determined from the standard deviation of seven replicate measurements, but the value in the report is set from a MDL verification sample run at a level near the calculated MDL.

RL: The reporting limit (RL) is the lowest concentration standard on the calibration curve, and represents the lowest concentration that can be measured that will meet all of the QC Criteria for the method.

DATA FLAGS

In the standard report, if a compound is not detected above the method detection limit, a "ND" is in the Amount column. The flag column is used for both the not detect flag and for any data flags. The not detect flag is either a "ND" or a "U". If the "U" flag is selected, the MDL for the compound is reported in the Amount column instead of "ND". Other flags are listed below:

- B - This compound was detected in the batch method blank above the reporting limit.
- E - This compound exceeds the calibration range for this sample volume.
- J - The amount reported is estimated because it was below the RL and above the MDL
- F - Higher detection limits because of matrix interference

UNITS

PPBV or PPMV: Parts-per-billion (or million) by volume is a mole (volume) ratio of the moles of analyte divided by the moles of air (gas). This is the primary unit used to report air or gas concentrations and is independent of temperature and pressure. It is different from the ppb unit used to report water or soil data, which is a mass ratio.

UG/M3 OR MG/M3: Micrograms (or milligrams) per cubic meter is a mass/volume ratio and does depend on temperature and pressure of the source at time of sample collection. The reported result was calculated based on 1 atm pressure and a temperature of 25C. The conversion from PPBV is: $UG/M3 = PPBV \times MW/24.46$ where 24.46 is the gas constant and MW is the Compounds Molecular Weight (sometimes called Formula Weight)

ANALYTICAL REPORT

EPA Method TO-15 Modified SIM GC/MS
Analytical Method: TO15 SIM

SDG: 214585
Laboratory ID: 01

Description: H2-AA-06
Can/Tube#: 537
QC_Batch: 110514-MB1
Air Volume: 20 ml

Date Sampled: 10/29/14 Time: 16:52
Date Received: 11/03/14 Time: 14:30
Date Analyzed: 11/05/14 Time: 16:55
Can Dilution Factor: 1.69

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
75-01-4	Vinyl chloride	0.423	2.197	ND	1.079	5.613	ND	ND
75-35-4	1,1-Dichloroethene	0.423	2.197	ND	1.674	8.703	ND	ND
75-09-2	Dichloromethane	0.423	2.197	ND	1.466	7.625	ND	ND
156-60-5	trans-1,2-Dichloroethene	0.423	2.197	ND	1.674	8.703	ND	ND
1634-04-4	Methyl tert butyl ether	0.423	2.197	ND	1.522	7.912	ND	ND
75-34-3	1,1-Dichloroethane	0.423	2.197	ND	1.710	8.891	ND	ND
156-59-2	cis-1,2-Dichloroethene	0.423	2.197	ND	1.674	8.703	ND	ND
67-66-3	Chloroform	0.423	2.197	ND	2.062	10.724	ND	ND
71-55-6	1,1,1-Trichloroethane	0.423	2.197	ND	2.304	11.981	ND	ND
107-06-2	1,2-Dichloroethane	0.423	2.197	ND	1.710	8.891	ND	ND
71-43-2	Benzene	0.423	2.197	1.628	1.349	7.014	5.199	J
56-23-5	Carbon tetrachloride	0.423	2.197	ND	2.656	13.813	ND	ND
79-01-6	Trichloroethene	0.423	2.197	ND	2.269	11.801	ND	ND
108-88-3	Toluene	0.423	2.197	2.766	1.591	8.272	10.413	
106-93-4	1,2-Dibromoethane	0.423	2.197	ND	3.245	16.876	ND	ND
127-18-4	Tetrachloroethene	0.423	2.197	ND	2.864	14.891	ND	ND
100-41-4	Ethylbenzene	0.423	2.197	0.510	1.834	9.538	2.213	J
1330-20-7	m,p-Xylenes	0.423	2.197	1.052	1.834	9.538	4.566	J
95-47-6	o-Xylene	0.423	2.197	0.529	1.834	9.538	2.296	J
108-67-8	1,3,5-Trimethylbenzene	0.423	2.197	0.785	2.076	10.795	3.855	J
95-63-6	1,2,4-Trimethylbenzene	0.423	2.197	1.338	2.076	10.795	6.572	J

Surrogate Recovery	Spike ppbV	Measured ppbV	% Rec.	QC LCL	Limits UCL	Flag * = Out
2037-26-5 Toluene-d8	0.20	0.22	112	70	130	

ANALYTICAL REPORT

EPA Method TO-15 Modified SIM GC/MS
Analytical Method: TO15 SIM

SDG: 214585
Laboratory ID: 02

Description: H2-AA-06E
Can/Tube#: 524
QC_Batch: 110514-MB1
Air Volume: 20 ml

Date Sampled: 10/29/14 Time: 16:51
Date Received: 11/03/14 Time: 14:30
Date Analyzed: 11/05/14 Time: 18:41
Can Dilution Factor: 1.64

CAS#	Compound	MDL	RL	Amount	MDL	RL	Amount	Flag
		PPBV	PPBV	PPBV	UG/M3	UG/M3	UG/M3	
75-01-4	Vinyl chloride	0.410	2.132	ND	1.048	5.447	ND	ND
75-35-4	1,1-Dichloroethene	0.410	2.132	ND	1.624	8.445	ND	ND
75-09-2	Dichloromethane	0.410	2.132	ND	1.423	7.399	ND	ND
156-60-5	trans-1,2-Dichloroethene	0.410	2.132	ND	1.624	8.445	ND	ND
1634-04-4	Methyl tert butyl ether	0.410	2.132	ND	1.477	7.678	ND	ND
75-34-3	1,1-Dichloroethane	0.410	2.132	ND	1.659	8.628	ND	ND
156-59-2	cis-1,2-Dichloroethene	0.410	2.132	ND	1.624	8.445	ND	ND
67-66-3	Chloroform	0.410	2.132	ND	2.001	10.406	ND	ND
71-55-6	1,1,1-Trichloroethane	0.410	2.132	ND	2.236	11.626	ND	ND
107-06-2	1,2-Dichloroethane	0.410	2.132	ND	1.659	8.628	ND	ND
71-43-2	Benzene	0.410	2.132	1.274	1.309	6.807	4.066	J
56-23-5	Carbon tetrachloride	0.410	2.132	ND	2.578	13.404	ND	ND
79-01-6	Trichloroethene	0.410	2.132	ND	2.202	11.452	ND	ND
108-88-3	Toluene	0.410	2.132	3.606	1.544	8.027	13.577	
106-93-4	1,2-Dibromoethane	0.410	2.132	ND	3.149	16.376	ND	ND
127-18-4	Tetrachloroethene	0.410	2.132	ND	2.779	14.450	ND	ND
100-41-4	Ethylbenzene	0.410	2.132	0.497	1.780	9.256	2.156	J
1330-20-7	m,p-Xylenes	0.410	2.132	1.156	1.780	9.256	5.018	J
95-47-6	o-Xylene	0.410	2.132	0.520	1.780	9.256	2.256	J
108-67-8	1,3,5-Trimethylbenzene	0.410	2.132	0.736	2.015	10.476	3.619	J
95-63-6	1,2,4-Trimethylbenzene	0.410	2.132	1.162	2.015	10.476	5.709	J

Surrogate Recovery		Spike	Measured		QC	Limits	Flag
		ppbV	ppbV	% Rec.	LCL	UCL	* = Out
2037-26-5	Toluene-d8	0.20	0.23	117	70	130	

ANALYTICAL REPORT

EPA Method TO-15 Modified SIM GC/MS
Analytical Method: TO15 SIM

SDG: 214585
Laboratory ID: 03

Description: H2-AA-06W
Can/Tube#: 715
QC_Batch: 110514-MB1
Air Volume: 20 ml

Date Sampled: 10/29/14 Time: 16:53
Date Received: 11/03/14 Time: 14:30
Date Analyzed: 11/05/14 Time: 19:25
Can Dilution Factor: 1.80

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
75-01-4	Vinyl chloride	0.450	2.340	ND	1.150	5.979	ND	ND
75-35-4	1,1-Dichloroethene	0.450	2.340	ND	1.783	9.269	ND	ND
75-09-2	Dichloromethane	0.450	2.340	ND	1.562	8.121	ND	ND
156-60-5	trans-1,2-Dichloroethene	0.450	2.340	ND	1.783	9.269	ND	ND
1634-04-4	Methyl tert butyl ether	0.450	2.340	ND	1.621	8.427	ND	ND
75-34-3	1,1-Dichloroethane	0.450	2.340	ND	1.821	9.470	ND	ND
156-59-2	cis-1,2-Dichloroethene	0.450	2.340	ND	1.783	9.269	ND	ND
67-66-3	Chloroform	0.450	2.340	ND	2.196	11.422	ND	ND
71-55-6	1,1,1-Trichloroethane	0.450	2.340	ND	2.454	12.761	ND	ND
107-06-2	1,2-Dichloroethane	0.450	2.340	ND	1.821	9.470	ND	ND
71-43-2	Benzene	0.450	2.340	1.278	1.437	7.471	4.081	J
56-23-5	Carbon tetrachloride	0.450	2.340	ND	2.829	14.712	ND	ND
79-01-6	Trichloroethene	0.450	2.340	ND	2.417	12.569	ND	ND
108-88-3	Toluene	0.450	2.340	2.737	1.694	8.810	10.304	
106-93-4	1,2-Dibromoethane	0.450	2.340	ND	3.457	17.974	ND	ND
127-18-4	Tetrachloroethene	0.450	2.340	ND	3.050	15.860	ND	ND
100-41-4	Ethylbenzene	0.450	2.340	0.525	1.954	10.159	2.280	J
1330-20-7	m,p-Xylenes	0.450	2.340	1.353	1.954	10.159	5.874	J
95-47-6	o-Xylene	0.450	2.340	0.715	1.954	10.159	3.104	J
108-67-8	1,3,5-Trimethylbenzene	0.450	2.340	0.634	2.211	11.498	3.115	J
95-63-6	1,2,4-Trimethylbenzene	0.450	2.340	0.882	2.211	11.498	4.333	J

Surrogate Recovery	Spike ppbV	Measured ppbV	% Rec.	QC LCL	Limits UCL	Flag * = Out
2037-26-5 Toluene-d8	0.20	0.22	112	70	130	

ANALYTICAL REPORT

EPA Method TO-15 Modified SIM GC/MS
Analytical Method: TO15 SIM

SDG: 214585
Laboratory ID: 04

Description: H2-AA-06H
Can/Tube#: 532
QC_Batch: 110514-MB1
Air Volume: 20 ml

Date Sampled: 10/29/14 Time: 16:50
Date Received: 11/03/14 Time: 14:30
Date Analyzed: 11/05/14 Time: 19:59
Can Dilution Factor: 1.77

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
75-01-4	Vinyl chloride	0.443	2.301	ND	1.131	5.879	ND	ND
75-35-4	1,1-Dichloroethene	0.443	2.301	ND	1.753	9.115	ND	ND
75-09-2	Dichloromethane	0.443	2.301	ND	1.536	7.986	ND	ND
156-60-5	trans-1,2-Dichloroethene	0.443	2.301	ND	1.753	9.115	ND	ND
1634-04-4	Methyl tert butyl ether	0.443	2.301	ND	1.594	8.287	ND	ND
75-34-3	1,1-Dichloroethane	0.443	2.301	ND	1.791	9.312	ND	ND
156-59-2	cis-1,2-Dichloroethene	0.443	2.301	ND	1.753	9.115	ND	ND
67-66-3	Chloroform	0.443	2.301	ND	2.160	11.231	ND	ND
71-55-6	1,1,1-Trichloroethane	0.443	2.301	ND	2.413	12.548	ND	ND
107-06-2	1,2-Dichloroethane	0.443	2.301	ND	1.791	9.312	ND	ND
71-43-2	Benzene	0.443	2.301	1.800	1.413	7.346	5.745	J
56-23-5	Carbon tetrachloride	0.443	2.301	ND	2.782	14.467	ND	ND
79-01-6	Trichloroethene	0.443	2.301	ND	2.377	12.360	ND	ND
108-88-3	Toluene	0.443	2.301	5.127	1.666	8.663	19.301	
106-93-4	1,2-Dibromoethane	0.443	2.301	ND	3.399	17.675	ND	ND
127-18-4	Tetrachloroethene	0.443	2.301	ND	2.999	15.596	ND	ND
100-41-4	Ethylbenzene	0.443	2.301	0.659	1.921	9.990	2.862	J
1330-20-7	m,p-Xylenes	0.443	2.301	2.553	1.921	9.990	11.085	
95-47-6	o-Xylene	0.443	2.301	0.531	1.921	9.990	2.305	J
108-67-8	1,3,5-Trimethylbenzene	0.443	2.301	0.605	2.174	11.306	2.975	J
95-63-6	1,2,4-Trimethylbenzene	0.443	2.301	1.001	2.174	11.306	4.918	J

Surrogate Recovery	Spike ppbV	Measured ppbV	% Rec.	QC LCL	Limits UCL	Flag * = Out
2037-26-5 Toluene-d8	0.20	0.23	114	70	130	