March 12, 2013

Barbara Jakub, PG
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SUBJECT: RESPONSIBLE PARTY PERJURY STATEMENT FOR ALAMEDA COUNTY FTP WEBSITE TECHNICAL REPORT SUBMITTAL REQUIREMENT FOR REPORTING OF Soil Gas and Down Gradient Groundwater Grab Sampling Investigation for Kawahara Nursery, 16550 Ashland Ave., San Lorenzo, CA

To Alameda County Environmental Health,

"I declare under penalty of perjury that the information and/or recommendations contained in the technical document designated above is true and correct to the best of my knowledge."

John T. Kawahara

John Kawahara
Kawahara Nursery, Inc.
689 Burnett Ave.
Morgan Hill, CA 95037

PHONE: (408) 640-4289
JKawahara@KawaharaNurseries.com

RECEIVED
By Alameda County Environmental Health at 9:00 am, Apr 18, 2013

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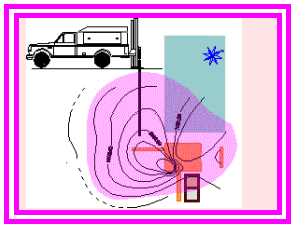

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1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502

SUBJECT: Soil Gas and Down Gradient Groundwater Grab Sampling Investigation for Kawahara Nursery, 16550 Ashland Ave., San Lorenzo, CA

Ms. Jakub,

The following technical report has been submitted in accordance with your May 09, 2012 letter, Technical Comments and our discussions regarding the recently submitted workplan. The purpose of this subsurface investigation was to determine if residual gasoline related contaminants pose a potential health threat to residents in the house located within the investigation area. The laboratory results along with the strategic placement of recent conformation soil borings has identified very low concentrations of hydrocarbons that are not a significant threat to health.

As agreed, two of soil borings were drilled to groundwater which were placed down gradient of contamination identified in the past and one soil boring was place at the down gradient end of the investigation area. Also, soil gas samples were collected between the house and contamination identified in the past.

Base on the results of this investigation, UST site closure is recommended.

The Responsible Party, Kawahara Nursery, would like to expedite this process so that they can move ahead with changing their business operations as planned.

Kindest Regards,

Franklin J. Goldman

REGISTERED GEOLOGIST
FRANKLIN J. GOLDMAN
CERTIFIED HYDROGEOLOGIST
NO. 466
STATE OF CALIFORNIA

Franklin J. Goldman
Principal Hydrogeologist

Subsurface Investigation Activities Completed

Rationale for Soil Boring Depths and Locations and Changes to the Workplan

Soil gas borings Sgas1, Sgas2, and Sgas3 were located between the house and Z5, SB-4 and SB-5, respectively (See Figure 1 for Soil Gas and Soil Borehole Location Map), to a depth of five (5) feet bgs, where concentrations of gasoline related constituents were identified in 1999 and 2012.

Soil gas boring Sgas2 was moved closer to SB-4 as suggested by Ben Heningburg of the SWRCB. Soil gas borings Sgas2 and Sgas3 did not require companion soil borings because soil samples could be collected at five feet bgs from the soil gas soil borings. Soil gas boring Sgas1 did require an additional companion soil boring placed immediately adjacent to the five foot deep soil gas boring to obtain a relatively undisturbed soil sample from a depth of five feet bgs.

GW-grab1, GW-grab2, and GW-grab3 are soil borings that were drilled to approximately 20 feet bgs instead of 15 feet bgs to provide enough well volume in order to obtain a groundwater “grab” sample, with the least amount of silt.

GW-grab2 was located immediately down gradient of Z5 and SB-4 where gasoline constituents were identified in the past.

Soil boring GW-grab1 had to be located further to the north than originally planned due to the original location being inaccessible to the drill rig after making several attempts at moving the drill rig across the front lawn which was underlain by very soft soils. Fortunately, the new location is located directly down gradient of GW-grab3 which identified gasoline related constituents in groundwater (See Figure 1 Soil Gas and Soil Borehole Location Map with Lab Data).

Proposed Soil and Soil Gas Drilling and Sampling Procedures

A soil boring permit was obtained from the Alameda County Public Works Agency prior to the drilling of six (6) investigative soil borings. Three were drilled to 20 feet bgs to groundwater and three soil gas probes to five feet bgs. Soil descriptions were made by a licensed professional during drilling (See Appendix A for Soil Boring Logs).

A site health and safety plan to protect site workers was prepared and kept on site during field activities. A health and safety meeting was held with drilling staff and the client’s representative on site prior to the commencement of field activities.

Alameda County Environmental Health staff was given a 72 hour notice prior to the initiation of field work. County staff did not show up in the field on the day of drilling, however, Ms. Jakub was intimately involved with the planning and execution of this latest field work completed.

The borehole locations were marked at the site in white paint prior to the commencement of drilling excavation activities for Underground Service Alert.

A Geoprobe drilling machine, operated by TEG, a State of California C-57 licensed

drilling contractor was used for drilling. TEG is also a state certified mobile laboratory qualified to collect soil gas samples. TEG staff constructed three semi-permanent vapor wells which were installed by driving a probe to approximately 5 ½ feet bgs to collect a vapor samples. Groundwater was not encountered and the upper five feet of soil was dry to slightly moist.

Each soil gas probe location was drilled to approximately 5 ½ feet bgs where a soil sample was collected at 4 ½ to 5 feet bgs prior to installation of the temporary soil gas well. The Sgas1 location was drilled as two adjacent soil borings because of concerns raised regarding recovery of an undisturbed soil sample. The first boring was used to construct a soil gas well. After the soil gas well was constructed, a second, adjacent soil boring was drilled to obtain the soil sample.

Soil Sampling Procedures

The direct push method of drilling was performed with a Stratoprobe. The soil samples were collected at depths of approximate five foot vertical intervals that were cored with a core barrel with sampling runs of 1 ½ feet in length using four foot long acetate liners to contain the samples.

The large bore soil sampler, 2 inch O.D, was used to for continuous coring.

The sampler was advanced to the target depth by connecting the sampler to three foot long sections of steel rod that are 1.25 inch O.D.

Relatively undisturbed soil was continuously extruded, at a rate of approximately one foot per minute, inside the acetate liners by the continuous compressive force of the Geoprobe drill rig. The soil filled acetate liners were cut with a hack saw into six inch long sections to be physically examined for soil description purposes and to identify obvious olfactory and visual evidence of hydrocarbon contamination. One half (½) foot long samples were selected from the 1 & ½ foot long sample runs of acetate filled liners which were the most representative of soil conditions and demonstrated the presence of hydrocarbon contamination. Each ½ foot long soil filled acetate liner was cut flush with the end of the liner and capped with plastic end caps at each end. The soil samples were labeled with a non-toxic ink field marker as to the depth and location the sample was collected, the sample number, and the project name, and will be inserted into a plastic Zip-Lock bag and placed into an ice chest. The soil samples were then placed in an ice chest and kept at 4 degrees centigrade. The ice chest with the samples was then transported to Kiff Analytical, Inc. of Davis, California, a State-certified analytical laboratory, under a proper chain-of-custody, to be analyzed by EPA Method 8260b for TPHg, naphthalene and BTEX constituents.

Soil Gas Sampling Procedures

Soil Vapor Probe Installation

Three shallow vapor probes, SG1, SG2 and SG3, were installed on site to a depth of 5 ½ feet bgs with a Stratoprobe. After the borings reached five feet bgs, fixed sampling poins were installed using 0.25 inch diameter Teflon tubing attached to a 1 inch screen. Fine silica sand filter pack was installed six inches above and 6 inches below the five foot deep sampling point. A PVC guide pipe was lifted up gradually as the sand pack

was installed to make sure the pack was stabilized by the tubing. The annulus was then sealed to six inches from the surface with hydrated granular bentonite, set on top of a base of dry granular bentonite completed to the surface.

Soil gas samples were collected in SUMMA canisters, after allowing the installed soil gas probes to sit in the ground for a minimum of 2 hours, by TEG's field staff. Soil gas samples were collected in SUMMA canisters according to the Standard Operating Procedures outlined in Appendix B (See Appendix B for General Soil Gas Sampling Procedures).

The three, six (6) liter SUMMA canisters, were pre-calibrated at Test America, a State Certified laboratory, so that the flow rate was set at 200 ml/minute according to DTSC guidelines.

A tracer compound, 1,1 difluoroethane, was used to test for leaks around the probe rod and tubing where it exited the ground and in the sampling system. The tracer was placed under the shroud during sample collection. No tracer was detected per DTSC advisory specifications, so no leak was identified.

Prior to purging the sampling train and sampling of soil gas, a shut-in test was conducted to check for leaks in the above ground fittings. The shut-in test consisted of assembling the above ground section of the sampling train (e.g. valves lines fittings flow controllers and summa downflow of the top of the probe), and evacuating the lines to a measured vacuum of about 100 inches of water, then shutting the valves at either end of the above ground section of the sampling train and observing the vacuum for at least one minute. There was no observable loss of vacuum.

After the shut-in test was completed, hydrated bentonite was placed around the probe rod and tubing where it exited the ground. A five gallon bucket shroud was placed over the sampling point covering the sample tubing and the valve at the shroud end of the above ground sampling train section. The sampling train ran under the shroud to the SUMMA.

The three soil gas sample SUMMA canisters were delivered by Fedex to Test America, Inc. of Costa Mesa, CA, a state certified laboratory, and analyzed for gasoline range organics, naphthalene, BTEX, and percentage of oxygen in soil gas according to the following lab analyses:

1. Volatile Organic Compounds in Soil Gas by GC/MS: EPA method TO-15
2. Gasoline Range Organics (GRO) in Soil Gas by GC/MS: EPA method TO-3
3. Oxygen Concentration in Soil Gas: Gas Chromatography with Thermal Conductivity Detection GC/TCD.

Three, six one liter canisters were used to accommodate all the laboratory analyses completed.

The open boreholes were sealed according to the permit obtained by the Alameda County Public Works Agency under the field supervision of Vickie, the County grout inspector. The holes were sealed with a cement/bentonite slurry which was be poured down the five foot deep holes.

All equipment was triple rinsed with an Alconox water solution. Investigation derived waste, was placed in DOT approved 55 gallon drums to be disposed of at a legal point of disposal.

Groundwater "Grab" Sampling Procedures

The down-gradient borehole GW-grab1 GW-grab2, and GW-grab3 were logged by a State of California licensed professional geologist who identified the depth to the groundwater first encountered. Soil samples were collected for analysis from 5, 10, and 15 feet bgs in all three of the 20 foot deep soil borings.

Drilling was applied by the continuous compressive force of the Geoprobe drill rig at a rate of approximately one foot per minute until the depth of 20 feet bgs was reached so that the open borehole yielded enough groundwater to obtain a groundwater "grab" sample. The groundwater that flowed into the first borehole drilled to 15 feet bgs was too silty to be a representative sample. The TEG drilling technical staff collected the water samples.

A 1 ½ inch temporary PVC casing (10 foot blank and 10 feet of 0.01inch slotted screen) was placed down the open borehole, with a plastic end cap at the bottom, and allowed to fill with groundwater. A weighted plastic disposable check valve bailer was lowered down to the bottom of the screen to capture a groundwater "grab" sample. The groundwater was decanted from the bottom of the bailer using a valve release tube to unplug the bailer. The groundwater was drained from the bottom of the bailer into a 40 ml VOA glass vial with HCL preservative provided by a state certified laboratory. The VOAs were filled with water so that there was no escape of volatiles. The three VOA vials were inverted to make sure there were no bubbles present. The VOAs were then be placed in an ice chest and kept at 4 degrees centigrade. The ice chest with the samples was then transported to Kiff Analytical, Inc. of Davis, California, a State-certified analytical laboratory, under a proper chain-of-custody, to be analyzed for TPHg naphthalene, and BTEX constituents.

Prior to closing up the temporary well, the PVC casing was removed and the Stratoprobe soil boring excavation was properly abandoned with a cement bentonite grout to the surface after tagging the bottom with a measuring tape to make sure there were no obstructions.

The holes were sealed according to the permit obtained by the Alameda County Public Works Agency under the field supervision of Vickie, the County grout inspector. The holes were sealed with a cement/bentonite slurry which was be poured down the 20 foot deep holes.

Interpretation of Laboratory Results

No gasoline related constituents were identified in soil.

Dissolved gasoline related constituents were identified in the groundwater sample collected from GWG3 at approximately 15 to 20 feet bgs drilling (See Appendix C for Lab Analytical for Soil and Groundwater Samples). These residual dissolved

contaminants are located too deep to cause a significant threat of vapor intrusion to indoor air.

The down gradient extent of the dissolved gasoline plume has been defined by the groundwater grab sample collected at GWG1.

The benzene and naphthalene identified in soil gas in the temporary vapor wells was measured at concentrations below Environmental Screening Levels (ESLs) for a residential scenario with a bioattenuation zone (See Appendix D for Lab Analytical for Soil Gas Samples). Also, see Tables 1A, 1B, and 1C for lab results.

Also, there is abundant oxygen available in the bioattenuation zone for further reductions in hydrocarbon soil vapor.

Field Cleanup

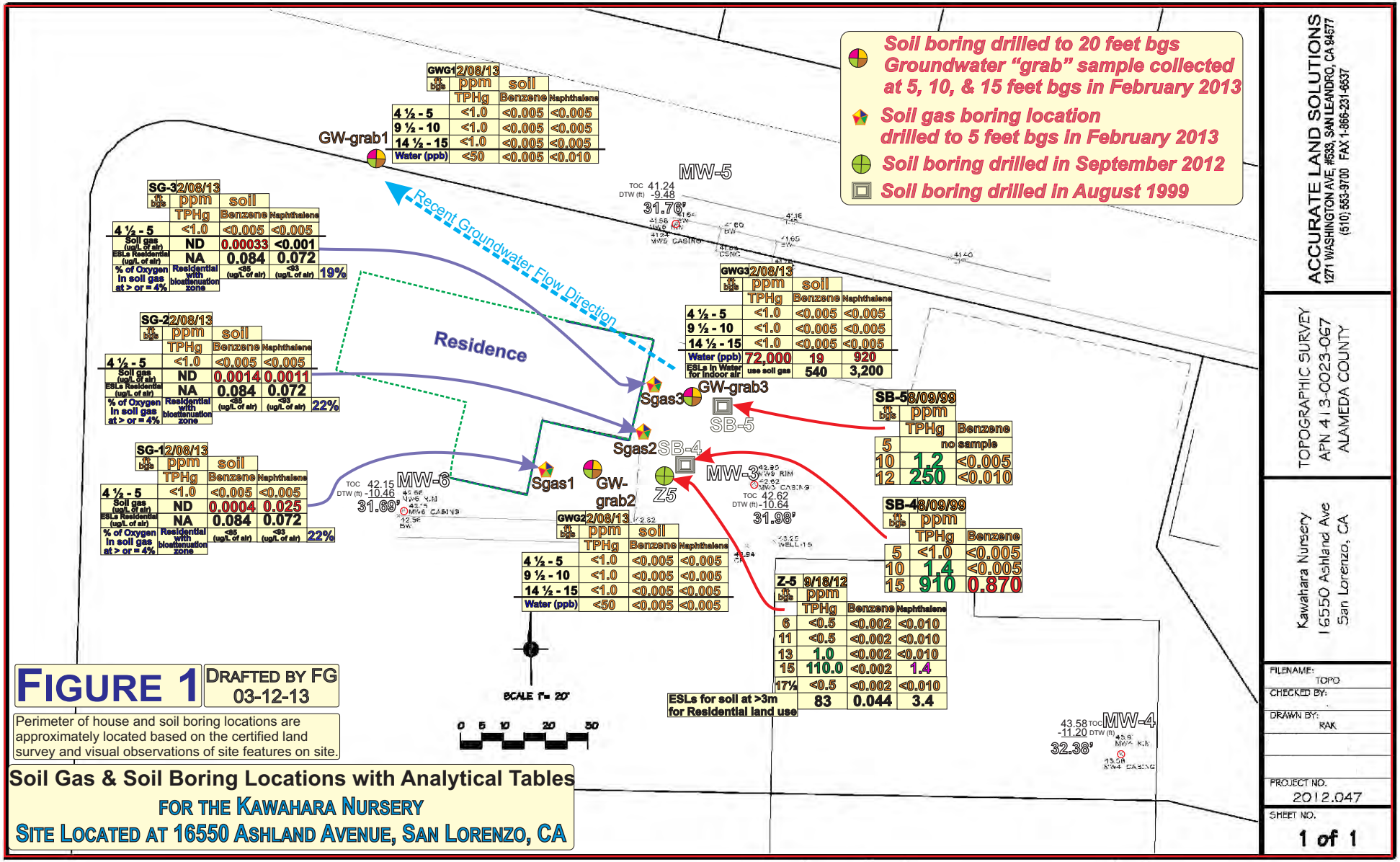
Soil waste and rinseate water was stored in properly labeled 55 gallon Department of Transportation (DOT) approved drums which were left on-site for transport to a legal point of disposal.

Conclusion and Recommendations

Properly abandon the groundwater monitor wells onsite and close this UST case.

Limitations

This report has been prepared in accordance with generally accepted environmental, geological and engineering practices. No warranty, either expressed or implied, is made as to the professional advice presented herein. The analyses, conclusions and recommendations contained in this report are based upon site conditions as they existed at the time of the investigation and they are subject to change. The conclusions presented in this report are professional opinions based solely upon visual observations of the site and vicinity, and interpretation of available information as described in this report. All users of this technical report, recognize that the limited scope of services performed in execution of this investigation may not be appropriate to satisfy the needs, or requirements of other state agencies, or of other users. Any use or reuse of this document or its findings, conclusions or recommendations presented herein, is done so at the sole risk of the said user.



GWG1 2/08/13	ppm	soil	
	TPHg	Benzene	Naphthalene
4 ½ - 5	<1.0	<0.005	<0.005
9 ½ - 10	<1.0	<0.005	<0.005
14 ½ - 15	<1.0	<0.005	<0.005
Water (ppb)	<50	<0.005	<0.010

SG-3 2/08/13	ppm	soil	
	TPHg	Benzene	Naphthalene
4 ½ - 5	<1.0	<0.005	<0.005
Soil gas (ug/L of air)	ND	0.00033	<0.001
ESLs Residential (ug/L of air)	NA	0.084	0.072
% of Oxygen in soil gas at > or = 4%	Residential with bioattenuation zone	<85 (ug/L of air)	<83 (ug/L of air) 19%

SG-2 2/08/13	ppm	soil	
	TPHg	Benzene	Naphthalene
4 ½ - 5	<1.0	<0.005	<0.005
Soil gas (ug/L of air)	ND	0.0014	0.0011
ESLs Residential (ug/L of air)	NA	0.084	0.072
% of Oxygen in soil gas at > or = 4%	Residential with bioattenuation zone	<85 (ug/L of air)	<83 (ug/L of air) 22%

SG-1 2/08/13	ppm	soil	
	TPHg	Benzene	Naphthalene
4 ½ - 5	<1.0	<0.005	<0.005
Soil gas (ug/L of air)	ND	0.0004	0.025
ESLs Residential (ug/L of air)	NA	0.084	0.072
% of Oxygen in soil gas at > or = 4%	Residential with bioattenuation zone	<85 (ug/L of air)	<83 (ug/L of air) 22%

MW-6 TOC 42.15 DTW (ft) -10.46 31.69'

MW-5 TOC 41.24 DTW (ft) -9.48 31.76'

MW-3 TOC 42.62 DTW (ft) -10.64 31.98'

MW-4 43.58 TOC -11.20 DTW (ft) 32.38'

GWG2 2/08/13	ppm	soil	
	TPHg	Benzene	Naphthalene
4 ½ - 5	<1.0	<0.005	<0.005
9 ½ - 10	<1.0	<0.005	<0.005
14 ½ - 15	<1.0	<0.005	<0.005
Water (ppb)	<50	<0.005	<0.005

GWG3 2/08/13	ppm	soil	
	TPHg	Benzene	Naphthalene
4 ½ - 5	<1.0	<0.005	<0.005
9 ½ - 10	<1.0	<0.005	<0.005
14 ½ - 15	<1.0	<0.005	<0.005
Water (ppb)	72,000	19	920
ESLs in Water for indoor air	use soil gas	540	3,200

SB-5 8/09/99	ppm	
	TPHg	Benzene
5	no sample	
10	1.2	<0.005
12	250	<0.010

SB-4 8/09/99	ppm	
	TPHg	Benzene
5	<1.0	<0.005
10	1.4	<0.005
15	910	0.870

Z-5 9/18/12	ppm		
	TPHg	Benzene	Naphthalene
6	<0.5	<0.002	<0.010
11	<0.5	<0.002	<0.010
13	1.0	<0.002	<0.010
15	110.0	<0.002	1.4
17½	<0.5	<0.002	<0.010

FIGURE 1

DRAFTED BY FG
03-12-13

Perimeter of house and soil boring locations are approximately located based on the certified land survey and visual observations of site features on site.

Soil Gas & Soil Boring Locations with Analytical Tables

FOR THE KAWAHARA NURSERY

SITE LOCATED AT 16550 ASHLAND AVENUE, SAN LORENZO, CA

ACCURATE LAND SOLUTIONS
1271 WASHINGTON AVE, #533, SAN LEANDRO, CA 94577
(510) 553-9700 FAX 1-866-231-6537

TOPOGRAPHIC SURVEY
APN 413-0023-067
ALAMEDA COUNTY

Kawahara Nursery
16550 Ashland Ave
San Lorenzo, CA

FILENAME: TOPO
CHECKED BY:
DRAWN BY: RAK
PROJECT NO. 2012.047
SHEET NO. 1 of 1

Table 1A - Concentrations of Hydrocarbons in Soil (ppm)
FOR THE KAWAHARA NURSERY
SITE LOCATED AT 16550 ASHLAND AVENUE, SAN LORENZO, CA

GWG1	2/08/13						
ft bgs	ppm	soil					
	TPHg	Benzene	Naphthalene	Toluene	Ethyl-Benzene	Xylene	MTBE
4 ½ - 5	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
9 ½ - 10	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
14 ½ - 15	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005

GWG2	2/08/13						
ft bgs	ppm	soil					
	TPHg	Benzene	Naphthalene	Toluene	Ethyl-Benzene	Xylene	MTBE
4 ½ - 5	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
9 ½ - 10	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
14 ½ - 15	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005

GWG3	2/08/13						
ft bgs	ppm	soil					
	TPHg	Benzene	Naphthalene	Toluene	Ethyl-Benzene	Xylene	MTBE
4 ½ - 5	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
9 ½ - 10	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
14 ½ - 15	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005

SG-1	2/08/13						
ft bgs	ppm	soil					
	TPHg	Benzene	Naphthalene	Toluene	Ethyl-Benzene	Xylene	MTBE
4 ½ - 5	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005

SG-2	2/08/13						
ft bgs	ppm	soil					
	TPHg	Benzene	Naphthalene	Toluene	Ethyl-Benzene	Xylene	MTBE
4 ½ - 5	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005

SG-3	2/08/13						
ft bgs	ppm	soil					
	TPHg	Benzene	Naphthalene	Toluene	Ethyl-Benzene	Xylene	MTBE
4 ½ - 5	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005

Table 1B - Concentrations of Hydrocarbons in Soil Gas (ug/L of air)

SG-1	2/08/13						
	TPHg	Benzene	Naphthalene	Toluene	Ethyl-Benzene	Xylene	MTBE
Soil gas (ug/L of air)	ND	0.0004	0.025	0.0012	<0.00035	0.00238	<0.0014
ESLs Residential (ug/L of air)	NA	0.084	0.072				
% of Oxygen in soil gas at > or = 4%	Residential with bioattenuation zone	<85 (ug/L of air)	<93 (ug/L of air)	22%			

SG-2	2/08/13						
	TPHg	Benzene	Naphthalene	Toluene	Ethyl-Benzene	Xylene	MTBE
Soil gas (ug/L of air)	ND	0.0014	0.0011	0.0071	0.0016	0.0093	<0.0014
ESLs Residential (ug/L of air)	NA	0.084	0.072				
% of Oxygen in soil gas at > or = 4%	Residential with bioattenuation zone	<85 (ug/L of air)	<93 (ug/L of air)	22%			

SG-3	2/08/13						
	TPHg	Benzene	Naphthalene	Toluene	Ethyl-Benzene	Xylene	MTBE
Soil gas (ug/L of air)	ND	0.00033	<0.0010	0.0012	0.00036	0.00266	<0.0014
ESLs Residential (ug/L of air)	NA	0.084	0.072				
% of Oxygen in soil gas at > or = 4%	Residential with bioattenuation zone	<85 (ug/L of air)	<93 (ug/L of air)	19%			

Table 1C - Concentrations of Hydrocarbons in Groundwater (ug/L)

GWG1	2/08/13						
	TPHg	Benzene	Naphthalene	Toluene	Ethyl-Benzene	Xylene	MTBE
Water (ppb)	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50

GWG2	2/08/13						
	TPHg	Benzene	Naphthalene	Toluene	Ethyl-Benzene	Xylene	MTBE
Water (ppb)	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50

GWG3	2/08/13						
	TPHg	Benzene	Naphthalene	Toluene	Ethyl-Benzene	Xylene	MTBE
Water (ppb)	72,000	19	920	14	1,100	7,700	<9
ESLs in Water for Indoor air	use soil gas	540	3,200				

Appendix A

Soil Boring Logs

EXPLORATORY BORING LOG

DRILL COMPANY: TEG	SURFACE ELEVATION:	LOGGED BY: Frank Goldman
DEPTH TO GROUNDWATER:	BORING DIAMETER: 2″	DRILLING METHOD: Geoprobe

LITHOLOGIC DESCRIPTION	SAMPLE INTERVALS	TIME & PID	DEPTH in feet bgs	WATER LEVEL	WELL CONSTRUCTION DETAIL	USCS SYMBOLS
Silty clay, dark brown, soft, moist; rootlets, no odor. Sample run 4-5 ½′	X	0 ppm 2:10 pm	1 2 3 4 5			
Sample run 9-10 ½′	X	0 ppm 2:15 pm	6 7 8 9 10			CL
Silty clay with sand, olive brown, firm to stiff, moist; faint hydrocarbon odor. No hydrocarbon odor. Sample run 14-15 ½′	X	0 ppm 2:30 pm	11 12 13 14 15			CL/SM
End at 20′ bgs			16 17 18 19 20 21			

BORING NO. **GW-grab1**

DATE: 02 08 13

KAWAHARA NURSERY

SITE LOCATED AT 16550 ASHLAND AVENUE, SAN LORENZO, CA

EXPLORATORY BORING LOG

DRILL COMPANY: TEG	SURFACE ELEVATION:	LOGGED BY: Frank Goldman
DEPTH TO GROUNDWATER:	BORING DIAMETER: 2″	DRILLING METHOD: Geoprobe

LITHOLOGIC DESCRIPTION	SAMPLE INTERVALS	TIME & PID	DEPTH in feet bgs	WATER LEVEL	WELL CONSTRUCTION DETAIL	USCS SYMBOLS
Silty clay, dark brown, soft, moist; rootlets, no odor.			1 2 3 4 5			
Sample run 4-5 ½′	X	0 ppm 10:45 am				
			6 7 8 9 10			CL
Sample run 9-10 ½′	X	0 ppm 10:50 am				
Silty clay with sand, olive brown, firm to stiff, moist; no hydrocarbon odor.			11 12 13 14 15			CL/SM
No hydrocarbon odor. Sample run 14-15 ½′	X	0 ppm 10:55 am				
			16 17 18 19 20			
End at 20′ bgs			21			

BORING NO. **GW-grab2**

DATE: 02 08 13

KAWAHARA NURSERY

SITE LOCATED AT 16550 ASHLAND AVENUE, SAN LORENZO, CA

EXPLORATORY BORING LOG

DRILL COMPANY: TEG	SURFACE ELEVATION:	LOGGED BY: Frank Goldman
DEPTH TO GROUNDWATER:	BORING DIAMETER: 2″	DRILLING METHOD: Geoprobe

LITHOLOGIC DESCRIPTION	SAMPLE INTERVALS	TIME & PID	DEPTH in feet bgs	WATER LEVEL	WELL CONSTRUCTION DETAIL	USCS SYMBOLS
Silty clay, dark brown, soft, moist; rootlets, no odor.			1 2 3 4 5			
Sample run 4-5 ½′	X	0 ppm 12:25 pm				
			6 7 8 9 10			CL
Sample run 9-10 ½′	X	0 ppm 12:30 pm				
Silty clay with sand, olive brown, firm to stiff, moist; no hydrocarbon odor.			11 12 13			CL/SM
No hydrocarbon odor.						
Sample run 14-15 ½′	X	0 ppm 12:35 pm	14 15 16 17 18 19 20			
End at 20′ bgs			21			

BORING NO. **GW-grab3**

DATE: 02 08 13

KAWAHARA NURSERY

SITE LOCATED AT 16550 ASHLAND AVENUE, SAN LORENZO, CA

Appendix C

Soil and Water Lab Data Sheets

KIFF Analytical LLC

Report Number : 84007
Date : 02/20/2013

Laboratory Results

Frank Goldman
Goldman & Associates
P.O. Box 1193
Meadow Vista, CA 95713

Subject : 12 Soil Samples and 3 Water Samples
Project Name : Kawahara Nursery
Project Number :

Dear Mr. Goldman,

Chemical analysis of the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. US EPA protocols for sample storage and preservation were followed. Testing procedures comply with the 2003 NELAC and TNI 2009 standards. Laboratory results relate only to the samples tested. This report may be freely reproduced in full, but may only be reproduced in part with the express permission of Kiff Analytical, LLC. Kiff Analytical, LLC is certified by the State of California under the National Environmental Laboratory Accreditation Program (NELAP), lab # 08263CA. If you have any questions regarding procedures or results, please call me at 530-297-4800.

Sincerely,

Troy G. Turpen

Troy Turpen

KIFF Analytical LLC

Report Number : 84007
Date : 02/20/2013

Subject : 12 Soil Samples and 3 Water Samples
Project Name : Kawahara Nursery
Project Number :

Case Narrative

All soil samples were reported on a total weight (wet weight) basis.

Repeat analysis by Method EPA 8260B for sample GWG3-W yielded inconsistent results, possibly due to the presence of undissolved product in the sample. The sample bottles have a noticable petroleum odor. The highest valid results have been reported.

Matrix Spike/Matrix Spike Duplicate results associated with samples SG3 @ 4 1/2 -5, SG2 @ 4 1/2 -5, GWG2 9 1/2 -10, and GWG2 14 1/2 -15 for the analyte Naphthalene were outside of control limits. This may indicate a bias for the sample that was spiked. Since the LCS recoveries were within control limits, no data are flagged.

KIFF Analytical LLC

Report Number : 84007

Date : 02/20/2013

Project Name : **Kawahara Nursery**

Project Number :

Sample : **SG3 @ 4 1/2 -5** Matrix : Soil Lab Number : 84007-01

Sample Date :02/08/2013

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	02/14/13 23:09
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	02/14/13 23:09
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	02/14/13 23:09
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8260B	02/14/13 23:09
Methyl-t-butyl ether (MTBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	02/14/13 23:09
TPH as Gasoline	< 1.0	1.0	mg/Kg	EPA 8260B	02/14/13 23:09
Naphthalene	< 0.0050	0.0050	mg/Kg	EPA 8260B	02/14/13 23:09
1,2-Dichloroethane-d4 (Surr)	108		% Recovery	EPA 8260B	02/14/13 23:09
Toluene - d8 (Surr)	99.1		% Recovery	EPA 8260B	02/14/13 23:09
4-Bromofluorobenzene (Surr)	99.2		% Recovery	EPA 8260B	02/14/13 23:09

KIFF Analytical LLC

Report Number : 84007

Date : 02/20/2013

Project Name : **Kawahara Nursery**

Project Number :

Sample : **SG2 @ 4 1/2 -5** Matrix : Soil Lab Number : 84007-02

Sample Date :02/08/2013

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	02/15/13 14:54
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	02/15/13 14:54
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	02/15/13 14:54
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8260B	02/15/13 14:54
Methyl-t-butyl ether (MTBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	02/15/13 14:54
TPH as Gasoline	< 1.0	1.0	mg/Kg	EPA 8260B	02/15/13 14:54
Naphthalene	< 0.0050	0.0050	mg/Kg	EPA 8260B	02/15/13 14:54
1,2-Dichloroethane-d4 (Surr)	106		% Recovery	EPA 8260B	02/15/13 14:54
Toluene - d8 (Surr)	99.3		% Recovery	EPA 8260B	02/15/13 14:54
4-Bromofluorobenzene (Surr)	101		% Recovery	EPA 8260B	02/15/13 14:54

KIFF Analytical LLC

Report Number : 84007

Date : 02/20/2013

Project Name : **Kawahara Nursery**

Project Number :

Sample : **SG1 @ 4 1/2 -5** Matrix : Soil Lab Number : 84007-03

Sample Date :02/08/2013

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	02/15/13 22:25
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	02/15/13 22:25
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	02/15/13 22:25
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8260B	02/15/13 22:25
Methyl-t-butyl ether (MTBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	02/15/13 22:25
TPH as Gasoline	< 1.0	1.0	mg/Kg	EPA 8260B	02/15/13 22:25
Naphthalene	< 0.0050	0.0050	mg/Kg	EPA 8260B	02/15/13 22:25
1,2-Dichloroethane-d4 (Surr)	105		% Recovery	EPA 8260B	02/15/13 22:25
Toluene - d8 (Surr)	98.7		% Recovery	EPA 8260B	02/15/13 22:25
4-Bromofluorobenzene (Surr)	102		% Recovery	EPA 8260B	02/15/13 22:25

KIFF Analytical LLC

Report Number : 84007

Date : 02/20/2013

Project Name : **Kawahara Nursery**

Project Number :

Sample : **GWG2 4 1/2 -5** Matrix : Soil Lab Number : 84007-04

Sample Date :02/08/2013

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	02/16/13 00:46
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	02/16/13 00:46
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	02/16/13 00:46
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8260B	02/16/13 00:46
Methyl-t-butyl ether (MTBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	02/16/13 00:46
TPH as Gasoline	< 1.0	1.0	mg/Kg	EPA 8260B	02/16/13 00:46
Naphthalene	< 0.0050	0.0050	mg/Kg	EPA 8260B	02/16/13 00:46
1,2-Dichloroethane-d4 (Surr)	105		% Recovery	EPA 8260B	02/16/13 00:46
Toluene - d8 (Surr)	97.8		% Recovery	EPA 8260B	02/16/13 00:46
4-Bromofluorobenzene (Surr)	98.3		% Recovery	EPA 8260B	02/16/13 00:46

KIFF Analytical LLC

Report Number : 84007

Date : 02/20/2013

Project Name : **Kawahara Nursery**

Project Number :

Sample : **GWG2 9 1/2 -10** Matrix : Soil Lab Number : 84007-05

Sample Date :02/08/2013

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	02/15/13 13:42
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	02/15/13 13:42
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	02/15/13 13:42
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8260B	02/15/13 13:42
Methyl-t-butyl ether (MTBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	02/15/13 13:42
TPH as Gasoline	< 1.0	1.0	mg/Kg	EPA 8260B	02/15/13 13:42
Naphthalene	< 0.0050	0.0050	mg/Kg	EPA 8260B	02/15/13 13:42
1,2-Dichloroethane-d4 (Surr)	102		% Recovery	EPA 8260B	02/15/13 13:42
Toluene - d8 (Surr)	100		% Recovery	EPA 8260B	02/15/13 13:42
4-Bromofluorobenzene (Surr)	96.4		% Recovery	EPA 8260B	02/15/13 13:42

KIFF Analytical LLC

Report Number : 84007

Date : 02/20/2013

Project Name : **Kawahara Nursery**

Project Number :

Sample : **GWG2 14 1/2 -15** Matrix : Soil Lab Number : 84007-06

Sample Date :02/08/2013

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	02/15/13 14:16
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	02/15/13 14:16
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	02/15/13 14:16
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8260B	02/15/13 14:16
Methyl-t-butyl ether (MTBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	02/15/13 14:16
TPH as Gasoline	< 1.0	1.0	mg/Kg	EPA 8260B	02/15/13 14:16
Naphthalene	< 0.0050	0.0050	mg/Kg	EPA 8260B	02/15/13 14:16
1,2-Dichloroethane-d4 (Surr)	105		% Recovery	EPA 8260B	02/15/13 14:16
Toluene - d8 (Surr)	99.3		% Recovery	EPA 8260B	02/15/13 14:16
4-Bromofluorobenzene (Surr)	98.7		% Recovery	EPA 8260B	02/15/13 14:16

KIFF Analytical LLC

Report Number : 84007

Date : 02/20/2013

Project Name : **Kawahara Nursery**

Project Number :

Sample : **GWG2-W** Matrix : Water Lab Number : 84007-07

Sample Date :02/08/2013

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	02/19/13 13:30
Toluene	< 0.50	0.50	ug/L	EPA 8260B	02/19/13 13:30
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	02/19/13 13:30
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	02/19/13 13:30
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	02/19/13 13:30
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	02/19/13 13:30
Naphthalene	< 0.50	0.50	ug/L	EPA 8260B	02/19/13 13:30
1,2-Dichloroethane-d4 (Surr)	98.1		% Recovery	EPA 8260B	02/19/13 13:30
Toluene - d8 (Surr)	95.6		% Recovery	EPA 8260B	02/19/13 13:30
4-Bromofluorobenzene (Surr)	94.4		% Recovery	EPA 8260B	02/19/13 13:30

KIFF Analytical LLC

Report Number : 84007
Date : 02/20/2013

Project Name : **Kawahara Nursery**
Project Number :

Sample : **GWG3 4 1/2 -5** Matrix : Soil Lab Number : 84007-08
Sample Date :02/08/2013

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	02/14/13 15:41
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	02/14/13 15:41
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	02/14/13 15:41
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8260B	02/14/13 15:41
Methyl-t-butyl ether (MTBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	02/14/13 15:41
TPH as Gasoline	< 1.0	1.0	mg/Kg	EPA 8260B	02/14/13 15:41
Naphthalene	< 0.0050	0.0050	mg/Kg	EPA 8260B	02/14/13 15:41
1,2-Dichloroethane-d4 (Surr)	108		% Recovery	EPA 8260B	02/14/13 15:41
Toluene - d8 (Surr)	99.5		% Recovery	EPA 8260B	02/14/13 15:41
4-Bromofluorobenzene (Surr)	98.9		% Recovery	EPA 8260B	02/14/13 15:41

KIFF Analytical LLC

Report Number : 84007

Date : 02/20/2013

Project Name : **Kawahara Nursery**

Project Number :

Sample : **GWG3 9 1/2 -10** Matrix : Soil Lab Number : 84007-09

Sample Date :02/08/2013

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	02/14/13 16:19
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	02/14/13 16:19
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	02/14/13 16:19
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8260B	02/14/13 16:19
Methyl-t-butyl ether (MTBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	02/14/13 16:19
TPH as Gasoline	< 1.0	1.0	mg/Kg	EPA 8260B	02/14/13 16:19
Naphthalene	< 0.0050	0.0050	mg/Kg	EPA 8260B	02/14/13 16:19
1,2-Dichloroethane-d4 (Surr)	108		% Recovery	EPA 8260B	02/14/13 16:19
Toluene - d8 (Surr)	99.6		% Recovery	EPA 8260B	02/14/13 16:19
4-Bromofluorobenzene (Surr)	99.9		% Recovery	EPA 8260B	02/14/13 16:19

KIFF Analytical LLC

Report Number : 84007

Date : 02/20/2013

Project Name : **Kawahara Nursery**

Project Number :

Sample : **GWG3 14 1/2 -15** Matrix : Soil Lab Number : 84007-10

Sample Date :02/08/2013

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	02/14/13 16:54
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	02/14/13 16:54
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	02/14/13 16:54
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8260B	02/14/13 16:54
Methyl-t-butyl ether (MTBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	02/14/13 16:54
TPH as Gasoline	< 1.0	1.0	mg/Kg	EPA 8260B	02/14/13 16:54
Naphthalene	< 0.0050	0.0050	mg/Kg	EPA 8260B	02/14/13 16:54
1,2-Dichloroethane-d4 (Surr)	106		% Recovery	EPA 8260B	02/14/13 16:54
Toluene - d8 (Surr)	99.0		% Recovery	EPA 8260B	02/14/13 16:54
4-Bromofluorobenzene (Surr)	99.2		% Recovery	EPA 8260B	02/14/13 16:54

KIFF Analytical LLC

Report Number : 84007

Date : 02/20/2013

Project Name : **Kawahara Nursery**

Project Number :

Sample : **GWG3-W** Matrix : Water Lab Number : 84007-11

Sample Date :02/08/2013

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	**19**	9.0	ug/L	EPA 8260B	02/16/13 06:54
Toluene	**14**	9.0	ug/L	EPA 8260B	02/16/13 06:54
Ethylbenzene	**1100**	9.0	ug/L	EPA 8260B	02/16/13 06:54
Total Xylenes	**7700**	9.0	ug/L	EPA 8260B	02/16/13 06:54
Methyl-t-butyl ether (MTBE)	< 9.0	9.0	ug/L	EPA 8260B	02/16/13 06:54
TPH as Gasoline	**72000**	1500	ug/L	EPA 8260B	02/19/13 14:52
Naphthalene	**920**	9.0	ug/L	EPA 8260B	02/16/13 06:54
1,2-Dichloroethane-d4 (Surr)	102		% Recovery	EPA 8260B	02/16/13 06:54
Toluene - d8 (Surr)	99.2		% Recovery	EPA 8260B	02/16/13 06:54
4-Bromofluorobenzene (Surr)	101		% Recovery	EPA 8260B	02/16/13 06:54

KIFF Analytical LLC

Report Number : 84007

Date : 02/20/2013

Project Name : **Kawahara Nursery**

Project Number :

Sample : **GWG1 4 1/2 -5** Matrix : Soil Lab Number : 84007-12

Sample Date :02/08/2013

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	02/14/13 17:33
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	02/14/13 17:33
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	02/14/13 17:33
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8260B	02/14/13 17:33
Methyl-t-butyl ether (MTBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	02/14/13 17:33
TPH as Gasoline	< 1.0	1.0	mg/Kg	EPA 8260B	02/14/13 17:33
Naphthalene	< 0.0050	0.0050	mg/Kg	EPA 8260B	02/14/13 17:33
1,2-Dichloroethane-d4 (Surr)	107		% Recovery	EPA 8260B	02/14/13 17:33
Toluene - d8 (Surr)	99.9		% Recovery	EPA 8260B	02/14/13 17:33
4-Bromofluorobenzene (Surr)	96.7		% Recovery	EPA 8260B	02/14/13 17:33

KIFF Analytical LLC

Report Number : 84007

Date : 02/20/2013

Project Name : **Kawahara Nursery**

Project Number :

Sample : **GWG1 9 1/2 -10** Matrix : Soil Lab Number : 84007-13

Sample Date :02/08/2013

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	02/15/13 05:55
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	02/15/13 05:55
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	02/15/13 05:55
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8260B	02/15/13 05:55
Methyl-t-butyl ether (MTBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	02/15/13 05:55
TPH as Gasoline	< 1.0	1.0	mg/Kg	EPA 8260B	02/15/13 05:55
Naphthalene	< 0.0050	0.0050	mg/Kg	EPA 8260B	02/15/13 05:55
1,2-Dichloroethane-d4 (Surr)	108		% Recovery	EPA 8260B	02/15/13 05:55
Toluene - d8 (Surr)	99.4		% Recovery	EPA 8260B	02/15/13 05:55
4-Bromofluorobenzene (Surr)	99.6		% Recovery	EPA 8260B	02/15/13 05:55

KIFF Analytical LLC

Report Number : 84007

Date : 02/20/2013

Project Name : **Kawahara Nursery**

Project Number :

Sample : **GWG1 14 1/2 -15** Matrix : Soil Lab Number : 84007-14

Sample Date :02/08/2013

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	02/15/13 06:29
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	02/15/13 06:29
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	02/15/13 06:29
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8260B	02/15/13 06:29
Methyl-t-butyl ether (MTBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	02/15/13 06:29
TPH as Gasoline	< 1.0	1.0	mg/Kg	EPA 8260B	02/15/13 06:29
Naphthalene	< 0.0050	0.0050	mg/Kg	EPA 8260B	02/15/13 06:29
1,2-Dichloroethane-d4 (Surr)	107		% Recovery	EPA 8260B	02/15/13 06:29
Toluene - d8 (Surr)	99.1		% Recovery	EPA 8260B	02/15/13 06:29
4-Bromofluorobenzene (Surr)	99.8		% Recovery	EPA 8260B	02/15/13 06:29

KIFF Analytical LLC

Report Number : 84007

Date : 02/20/2013

Project Name : **Kawahara Nursery**

Project Number :

Sample : **GWG1-W** Matrix : Water Lab Number : 84007-15

Sample Date :02/08/2013

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	02/16/13 03:12
Toluene	< 0.50	0.50	ug/L	EPA 8260B	02/16/13 03:12
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	02/16/13 03:12
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	02/16/13 03:12
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	02/16/13 03:12
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	02/16/13 03:12
Naphthalene	< 0.50	0.50	ug/L	EPA 8260B	02/16/13 03:12
1,2-Dichloroethane-d4 (Surr)	102		% Recovery	EPA 8260B	02/16/13 03:12
Toluene - d8 (Surr)	99.8		% Recovery	EPA 8260B	02/16/13 03:12
4-Bromofluorobenzene (Surr)	98.3		% Recovery	EPA 8260B	02/16/13 03:12

Report Number : 84007

QC Report : Method Blank Data

Date : 02/20/2013

Project Name : **Kawahara Nursery**

Project Number :

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	02/14/2013
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	02/14/2013
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	02/14/2013
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8260B	02/14/2013
Methyl-t-butyl ether (MTBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	02/14/2013
TPH as Gasoline	< 1.0	1.0	mg/Kg	EPA 8260B	02/14/2013
Naphthalene	< 0.0050	0.0050	mg/Kg	EPA 8260B	02/14/2013
1,2-Dichloroethane-d4 (Surr)	105		%	EPA 8260B	02/14/2013
4-Bromofluorobenzene (Surr)	98.3		%	EPA 8260B	02/14/2013
Toluene - d8 (Surr)	99.7		%	EPA 8260B	02/14/2013
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	02/19/2013
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	02/14/2013
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	02/14/2013
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	02/14/2013
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8260B	02/14/2013
Methyl-t-butyl ether (MTBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	02/14/2013
TPH as Gasoline	< 1.0	1.0	mg/Kg	EPA 8260B	02/14/2013
Naphthalene	< 0.0050	0.0050	mg/Kg	EPA 8260B	02/14/2013
1,2-Dichloroethane-d4 (Surr)	107		%	EPA 8260B	02/14/2013
4-Bromofluorobenzene (Surr)	99.4		%	EPA 8260B	02/14/2013
Toluene - d8 (Surr)	99.4		%	EPA 8260B	02/14/2013

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	02/15/2013
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	02/15/2013
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	02/15/2013
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8260B	02/15/2013
Methyl-t-butyl ether (MTBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	02/15/2013
TPH as Gasoline	< 1.0	1.0	mg/Kg	EPA 8260B	02/15/2013
Naphthalene	< 0.0050	0.0050	mg/Kg	EPA 8260B	02/15/2013
1,2-Dichloroethane-d4 (Surr)	104		%	EPA 8260B	02/15/2013
4-Bromofluorobenzene (Surr)	104		%	EPA 8260B	02/15/2013
Toluene - d8 (Surr)	97.9		%	EPA 8260B	02/15/2013
Benzene	< 0.50	0.50	ug/L	EPA 8260B	02/15/2013
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	02/15/2013
Toluene	< 0.50	0.50	ug/L	EPA 8260B	02/15/2013
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	02/15/2013
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	02/15/2013
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	02/15/2013
Naphthalene	< 0.50	0.50	ug/L	EPA 8260B	02/15/2013
1,2-Dichloroethane-d4 (Surr)	104		%	EPA 8260B	02/15/2013
4-Bromofluorobenzene (Surr)	98.6		%	EPA 8260B	02/15/2013
Toluene - d8 (Surr)	99.8		%	EPA 8260B	02/15/2013

KIFF ANALYTICAL, LLC

2795 2nd Street, Suite 300 Davis, CA 95618 530-297-4800

Report Number : 84007

QC Report : Method Blank Data

Date : 02/20/2013

Project Name : **Kawahara Nursery**

Project Number :

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	02/19/2013
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	02/19/2013
Toluene	< 0.50	0.50	ug/L	EPA 8260B	02/19/2013
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	02/19/2013
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	02/19/2013
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	02/19/2013
Naphthalene	< 0.50	0.50	ug/L	EPA 8260B	02/19/2013
1,2-Dichloroethane-d4 (Surr)	98.4		%	EPA 8260B	02/19/2013
4-Bromofluorobenzene (Surr)	96.1		%	EPA 8260B	02/19/2013
Toluene - d8 (Surr)	98.7		%	EPA 8260B	02/19/2013

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed

KIFF ANALYTICAL, LLC

2795 2nd Street, Suite 300 Davis, CA 95618 530-297-4800

Report Number : 84007

QC Report : Matrix Spike/ Matrix Spike Duplicate

Date : 02/20/2013

Project Name : **Kawahara Nursery**

Project Number :

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
Benzene														
	84007-08	<0.0050	0.0393	0.0397	0.0338	0.0349	mg/Kg	EPA 8260B	2/14/13	86.0	88.0	2.35	67.9-120	25
Ethylbenzene														
	84007-08	<0.0050	0.0393	0.0397	0.0345	0.0350	mg/Kg	EPA 8260B	2/14/13	87.9	88.1	0.263	65.5-127	25
Methyl-t-butyl ether														
	84007-08	<0.0050	0.0394	0.0397	0.0348	0.0328	mg/Kg	EPA 8260B	2/14/13	88.5	82.4	7.09	57.0-122	25
Naphthalene														
	84007-08	<0.0050	0.0393	0.0397	0.0326	0.0305	mg/Kg	EPA 8260B	2/14/13	82.8	76.8	7.50	70.0-130	25
P + M Xylene														
	84007-08	<0.0050	0.0393	0.0397	0.0338	0.0347	mg/Kg	EPA 8260B	2/14/13	86.1	87.4	1.42	62.5-124	25
Toluene														
	84007-08	<0.0050	0.0393	0.0397	0.0342	0.0352	mg/Kg	EPA 8260B	2/14/13	87.0	88.6	1.86	65.7-120	25
Toluene														
	84012-12	<0.50	38.9	39.9	36.7	37.7	ug/L	EPA 8260B	2/19/13	94.4	94.4	0.0650	80-120	25
Benzene														
	84007-01	<0.0050	0.0368	0.0368	0.0299	0.0300	mg/Kg	EPA 8260B	2/14/13	81.2	81.5	0.371	67.9-120	25
Ethylbenzene														
	84007-01	<0.0050	0.0368	0.0368	0.0304	0.0301	mg/Kg	EPA 8260B	2/14/13	82.6	81.8	0.971	65.5-127	25

KIFF ANALYTICAL, LLC

2795 2nd Street, Suite 300 Davis, CA 95618 530-297-4800

Report Number : 84007

QC Report : Matrix Spike/ Matrix Spike Duplicate

Date : 02/20/2013

Project Name : **Kawahara Nursery**

Project Number :

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
Methyl-t-butyl ether														
	84007-01	<0.0050	0.0369	0.0369	0.0265	0.0263	mg/Kg	EPA 8260B	2/14/13	71.9	71.4	0.769	57.0-122	25
Naphthalene														
	84007-01	<0.0050	0.0368	0.0368	0.0231	0.0218	mg/Kg	EPA 8260B	2/14/13	**62.6**	**59.3**	5.54	70.0-130	25
P + M Xylene														
	84007-01	<0.0050	0.0368	0.0368	0.0303	0.0296	mg/Kg	EPA 8260B	2/14/13	82.2	80.4	2.25	62.5-124	25
Toluene														
	84007-01	<0.0050	0.0368	0.0368	0.0304	0.0304	mg/Kg	EPA 8260B	2/14/13	82.7	82.4	0.328	65.7-120	25
Benzene														
	84007-03	<0.0050	0.0389	0.0382	0.0371	0.0365	mg/Kg	EPA 8260B	2/15/13	95.4	95.6	0.155	67.9-120	25
Ethylbenzene														
	84007-03	<0.0050	0.0389	0.0382	0.0357	0.0348	mg/Kg	EPA 8260B	2/15/13	91.8	91.1	0.730	65.5-127	25
Methyl-t-butyl ether														
	84007-03	<0.0050	0.0390	0.0383	0.0403	0.0374	mg/Kg	EPA 8260B	2/15/13	104	97.5	5.92	57.0-122	25
Naphthalene														
	84007-03	<0.0050	0.0389	0.0382	0.0330	0.0312	mg/Kg	EPA 8260B	2/15/13	84.8	81.6	3.83	70.0-130	25
P + M Xylene														
	84007-03	<0.0050	0.0389	0.0382	0.0359	0.0347	mg/Kg	EPA 8260B	2/15/13	92.2	90.7	1.67	62.5-124	25

KIFF ANALYTICAL, LLC

2795 2nd Street, Suite 300 Davis, CA 95618 530-297-4800

Report Number : 84007

QC Report : Matrix Spike/ Matrix Spike Duplicate

Date : 02/20/2013

Project Name : **Kawahara Nursery**

Project Number :

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
Toluene														
	84007-03	<0.0050	0.0389	0.0382	0.0365	0.0360	mg/Kg	EPA 8260B	2/15/13	93.7	94.2	0.544	65.7-120	25
Benzene														
	84007-07	<0.50	39.1	39.8	39.2	40.4	ug/L	EPA 8260B	2/16/13	100	102	1.21	80-120	25
Ethylbenzene														
	84007-07	<0.50	39.1	39.8	40.0	41.0	ug/L	EPA 8260B	2/16/13	102	103	0.676	80-120	25
Methyl-t-butyl ether														
	84007-07	<0.50	39.1	39.8	34.1	35.1	ug/L	EPA 8260B	2/16/13	87.3	88.1	0.976	69.7-121	25
Naphthalene														
	84007-07	1.0	39.1	39.8	41.2	40.0	ug/L	EPA 8260B	2/16/13	103	97.9	5.00	70.0-130	25
P + M Xylene														
	84007-07	<0.50	39.1	39.8	39.4	40.4	ug/L	EPA 8260B	2/16/13	101	102	0.955	76.8-120	25
Toluene														
	84007-07	<0.50	39.1	39.8	39.5	40.3	ug/L	EPA 8260B	2/16/13	101	101	0.370	80-120	25
Benzene														
	84067-01	<0.50	40.0	40.0	39.1	38.0	ug/L	EPA 8260B	2/19/13	97.8	94.9	2.96	80-120	25
Ethylbenzene														
	84067-01	<0.50	40.0	40.0	41.8	40.2	ug/L	EPA 8260B	2/19/13	105	100	3.97	80-120	25

KIFF ANALYTICAL, LLC

2795 2nd Street, Suite 300 Davis, CA 95618 530-297-4800

Report Number : 84007

QC Report : Matrix Spike/ Matrix Spike Duplicate

Date : 02/20/2013

Project Name : **Kawahara Nursery**

Project Number :

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
Methyl-t-butyl ether														
	84067-01	<0.50	40.1	40.1	41.4	42.2	ug/L	EPA 8260B	2/19/13	103	105	1.82	69.7-121	25
Naphthalene														
	84067-01	<0.50	40.0	40.0	42.4	43.3	ug/L	EPA 8260B	2/19/13	106	108	2.20	70.0-130	25
P + M Xylene														
	84067-01	<0.50	40.0	40.0	41.8	40.3	ug/L	EPA 8260B	2/19/13	104	101	3.64	76.8-120	25
Toluene														
	84067-01	<0.50	40.0	40.0	39.7	38.2	ug/L	EPA 8260B	2/19/13	99.3	95.4	3.96	80-120	25

KIFF ANALYTICAL, LLC

2795 2nd Street, Suite 300 Davis, CA 95618 530-297-4800

QC Report : Laboratory Control Sample (LCS)

Date : 02/20/2013

Project Name : **Kawahara Nursery**

Project Number :

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Benzene	0.0365	mg/Kg	EPA 8260B	2/14/13	92.4	67.9-120
Ethylbenzene	0.0365	mg/Kg	EPA 8260B	2/14/13	94.8	65.5-127
Methyl-t-butyl ether	0.0366	mg/Kg	EPA 8260B	2/14/13	87.6	57.0-122
Naphthalene	0.0365	mg/Kg	EPA 8260B	2/14/13	96.4	70.0-130
P + M Xylene	0.0365	mg/Kg	EPA 8260B	2/14/13	93.9	62.5-124
Toluene	0.0365	mg/Kg	EPA 8260B	2/14/13	93.3	65.7-120
Toluene	40.0	ug/L	EPA 8260B	2/19/13	95.0	80-120
Benzene	0.0386	mg/Kg	EPA 8260B	2/14/13	85.5	67.9-120
Ethylbenzene	0.0386	mg/Kg	EPA 8260B	2/14/13	88.0	65.5-127
Methyl-t-butyl ether	0.0387	mg/Kg	EPA 8260B	2/14/13	79.2	57.0-122
Naphthalene	0.0386	mg/Kg	EPA 8260B	2/14/13	96.6	70.0-130
P + M Xylene	0.0386	mg/Kg	EPA 8260B	2/14/13	87.0	62.5-124
Toluene	0.0386	mg/Kg	EPA 8260B	2/14/13	85.9	65.7-120
Benzene	0.0381	mg/Kg	EPA 8260B	2/15/13	98.5	67.9-120
Ethylbenzene	0.0381	mg/Kg	EPA 8260B	2/15/13	96.0	65.5-127
Methyl-t-butyl ether	0.0382	mg/Kg	EPA 8260B	2/15/13	100	57.0-122
Naphthalene	0.0381	mg/Kg	EPA 8260B	2/15/13	101	70.0-130
P + M Xylene	0.0381	mg/Kg	EPA 8260B	2/15/13	95.1	62.5-124
Toluene	0.0381	mg/Kg	EPA 8260B	2/15/13	94.3	65.7-120

KIFF ANALYTICAL, LLC

2795 2nd Street, Suite 300 Davis, CA 95618 530-297-4800

Report Number : 84007

QC Report : Laboratory Control Sample (LCS)

Date : 02/20/2013

Project Name : **Kawahara Nursery**

Project Number :

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Benzene	40.0	ug/L	EPA 8260B	2/16/13	100	80-120
Ethylbenzene	40.0	ug/L	EPA 8260B	2/16/13	107	80-120
Methyl-t-butyl ether	40.1	ug/L	EPA 8260B	2/16/13	88.4	69.7-121
Naphthalene	40.0	ug/L	EPA 8260B	2/16/13	97.5	70.0-130
P + M Xylene	40.0	ug/L	EPA 8260B	2/16/13	105	76.8-120
Toluene	40.0	ug/L	EPA 8260B	2/16/13	102	80-120
Benzene	40.0	ug/L	EPA 8260B	2/19/13	98.2	80-120
Ethylbenzene	40.0	ug/L	EPA 8260B	2/19/13	104	80-120
Methyl-t-butyl ether	40.1	ug/L	EPA 8260B	2/19/13	106	69.7-121
Naphthalene	40.0	ug/L	EPA 8260B	2/19/13	109	70.0-130
P + M Xylene	40.0	ug/L	EPA 8260B	2/19/13	105	76.8-120
TPH as Gasoline	510	ug/L	EPA 8260B	2/19/13	101	70.0-130
Toluene	40.0	ug/L	EPA 8260B	2/19/13	99.6	80-120

KIFF ANALYTICAL, LLC

2795 2nd Street, Suite 300 Davis, CA 95618 530-297-4800

84007

Frank Goldman
PO BOX 224, Roseville, CA 95678
FJGoldmanCHG@yahoo.com
Phone: (916) 676-2677

CHAIN OF CUSTODY RECORD

Laboratory Analysis P.O. No. _____
Laboratory Please Call Accounts Payable for P.O. No.
Date: 02/08/13 Sheet 1 of 2

Project Name: Kawahara Nursery
Project Number: _____
Address: 16550 Ashland, San Lorenzo, CA
Sampler's Name: Frank Goldman
Sampler's Signature: Frank Goldman

Kiff Analytical, LLC
2795 2nd Street, Suite 300
Davis, CA 95618
Phone: (818) 297-4800

Phone Turnaround Time: ☐ Rush ☐ 24 Hour ☐ 48 Hour ☒ 5-Day
Repeat to: Frank

Sample Number	Location	Date	Time	TPH as Gasoline 8015	TPH as Diesel 8015	TPH-g/BTEX 8015/8020 & MTBE	BTEX & EPA 8020	Oil and Grease 5520	Volitile Organics (8010)	CAM Metals (17)	Pr. Pollutant Metals (13)	Base/Neu/Acids (Organic)	Pesticides 8140/8141	Method 8260b for 5 oxygenates & 2 lead scavengers	8260b	Bulk density, moisture, porosity fraction of organic carbon	SOIL SAMPLE	WATER SAMPLE	Comments	
SG3 @ 4½-5		2/8/13	8:30 AM														X		Report TPHg BTEX	01
SG2 @ 4½-5			9:00 AM														X		MTBE & Naphtha	02
SG1 @ 4½-5			9:35 AM														X			03
GWG2 4½-5			10:45 AM														X			04
GWG2 9½-10			10:50 AM														X			05
GWG2 14½-15			10:55 AM														X			06
GWG2-W			12:19 PM															X		07
GWG3 4½-5			12:35 PM														X			08
GWG3 9½-10			12:30 PM														X			09
GWG3 14½-15		↓	12:35 PM														X			10

Relinquished By	Date	Time	Received By	Date	Time
	2/11/13	3:20 PM			
Dispatched By	Date	Time	Received in Lab By	Date	Time
				021113	1520

Total Number of Containers this Sheet: _____
Method of Shipment: _____
Special Shipment/Handling or Storage Requirements: **Keep on Ice**

SR received check #C37681 for $2,145.00, 021113 1520

84007

CHAIN OF CUSTODY RECORD

Frank Goldman
PO BOX 224, Roseville, CA 95678
FJGoldmanCHG@yahoo.com
Phone: (916) 676-2677

Laboratory Analysis P.O. No.
Laboratory Please Call Accounts Payable for P.O. No.

Date: 02/08/13 Sheet 2 of 2

Project Name: Kawahara Nursery
Project Number:
Address: 16550 Ashland, San Lorenzo, CA
Sampler's Name: Frank Goldman
Sampler's Signature: Frank Goldman

Sample Number	Location	Date	Time
GWG3-W		2/8/13	1:02 PM
GWG1 4½-5			2:10 PM
GWG1 9½-10			2:15 PM
GWG1 14½-15			2:30 PM
GWG1-W			3:05 PM

Parameters

TPH as Gasoline 8015	TPH as Diesel 8015	TPH-g/BTEX 8015/8020 & MTBE	BTEX & EPA 8020	Oil and Grease 5520	Volitile Organics (8010)	CAM Metals (17)	Pr. Pollutant Metals (13)	Base/Neu/Acids (Organic)	Pesticides 8140/8141	Method 8260b for 5 oxygenates & 2 lead scavengers	8260	Bulk density, moisture, porosity fraction of organic carbon	SOIL SAMPLE	WATER SAMPLE
														X
													X	
													X	
													X	
														X

Kiff Analytical, LLC
2795 2nd Street, Suite 300
Davis, CA 95618
Phone: (818) 297-4800

Phone

Turnaround Time
☐ Rush ☐ 24 Hour ☐ 48 Hour ☒ 5-Day

Repeat to: Frank

Comments

11 Report TPHg BTEX
12 MTBE & Naphthq
13
14
15

Relinquished By	Date	Time
Frank Goldman	2/11/13	3:20 PM
Dispatched By	Date	Time

Received By	Date	Time
Received In Lab By	021113	1520

Total Number of Containers this Sheet:
Method of Shipment:
Special Shipment/Handling or Storage Requirements: **Keep on Ice**

KIFF Analytical LLC

SAMPLE RECEIPT CHECKLIST

RECEIVER Initials: Eug

SRG#: 84007 Date: 021113

Project ID: Kawahara Nursery

Method of Receipt: ☐ Courier ☒ Over-the-counter ☐ Shipper

Shipping Only: ☐ FedEx * ☐ OnTrac * ☐ Greyhound ☐ Other *Service level if not Priority or Sunrise (M-F): _____

COC Inspection

Is COC present?	☒ Yes	☐ No		
Custody seals on shipping container?	☐ Intact	☐ Broken	☐ Not present	☒ N/A
Is COC Signed by Relinquisher? ☒ Yes ☐ No Dated?	☒ Yes	☐ No		
Is sampler name legibly indicated on COC?	☒ Yes	☐ No		
Is analysis or hold requested for all samples?	☒ Yes	☐ No		
Is the turnaround time indicated on COC?	☒ Yes	☐ No		
Is COC free of whiteout and uninitialed cross-outs?	☐ Yes	☐ No, Whiteout	☒ No, Cross-outs	

Sample Inspection

Coolant Present: ☒ Yes ☐ No (includes water)

Temperature °C 5.0 Therm. ID# IR-1 Initial Eug Date/Time 02 1113 1515 ☐ N/A

Are there custody seals on sample containers?	☐ Intact	☐ Broken	☒ Not present	
Do containers match COC? ☒ Yes ☐ No	☐ No, COC lists absent sample(s)	☐ No, Extra sample(s) present		
Are there samples matrices other than soil, water, air or carbon?	☐ Yes	☒ No		
Are any sample containers broken, leaking or damaged?	☐ Yes	☒ No		
Are preservatives indicated? ☒ Yes, on sample containers	☐ Yes, on COC	☐ Not indicated	☐ N/A	
Are preservatives correct for analyses requested?	☒ Yes	☐ No	☐ N/A	
Are samples within holding time for analyses requested?	☒ Yes	☐ No		
Are the correct sample containers used for the analyses requested?	☒ Yes	☐ No		
Is there sufficient sample to perform testing?	☒ Yes	☐ No		
Does any sample contain product, have strong odor or are otherwise suspected to be hot?	☐ Yes	☒ No		

Receipt Details

Matrix WA	Container type Vor	# of containers received 09
Matrix SO	Container type Sleeve	# of containers received 12
Matrix _____	Container type _____	# of containers received _____

Date and Time Sample Put into Temp Storage Date: 021113 Time: 1520

Quicklog

Are the Sample ID's indicated:	☐ On COC	☐ On sample container(s)	☒ On Both	☐ Not indicated
If Sample ID's are listed on both COC and containers, do they all match?	☒ Yes	☐ No	☐ N/A	
Is the Project ID indicated:	☐ On COC	☐ On sample container(s)	☒ On Both	☐ Not indicated
If project ID is listed on both COC and containers, do they all match?	☒ Yes	☐ No	☐ N/A	
Are the sample collection dates indicated:	☐ On COC	☐ On sample container(s)	☒ On Both	☐ Not indicated
If collection dates are listed on both COC and containers, do they all match?	☒ Yes	☐ No	☐ N/A	
Are the sample collection times indicated:	☐ On COC	☐ On sample container(s)	☒ On Both	☐ Not indicated
If collection times are listed on both COC and containers, do they all match?	☒ Yes	☐ No	☐ N/A	

COMMENTS:

Appendix D

Soil Gas Lab Data Sheets

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Costa Mesa
3585 Cadillac Ave
Suite A
Costa Mesa, CA 92626
Tel: (714)258-8610

TestAmerica Job ID: 340-6190-1
Client Project/Site: Kawahara / Soil Gas Sampling

For:
Kawahara Nursery, Inc
689 Burnett Ave
Morgan Hill, California 95037

Attn: Frank Goldman

Marisol Tabirara

Authorized for release by:
2/21/2013 2:45:51 PM

Marisol (Sonia) Tabirara
Project Manager I
sonia.tabirara@testamericainc.com

Table of Contents

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDA	Minimum detectable activity
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 340-6190-1

Laboratory: TestAmerica Costa Mesa

Narrative

Job Narrative
340-6190-1

Comments

Method TO15 was sub to TestAmerica Knoxville. See Subcontract Data.

Air - GC VOA
No analytical or quality issues were noted.

Organic Prep
No analytical or quality issues were noted.

Client: Kawahara Nursery, Inc
Project/Site: Kawahara / Soil Gas Sampling

TestAmerica Job ID: 340-6190-1

Client Sample ID: SG3
Date Collected: 02/08/13 08:42
Date Received: 02/13/13 12:00
Sample Container: Summa Canister 6L

Lab Sample ID: 340-6190-1
Matrix: Air

Method: D1946 - Fixed Gases in Air (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oxygen	**19**		0.36		% v/v			02/15/13 11:05	1.78

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oxygen	**130000000**		2300000		ug/m3			02/15/13 11:05	1.78

Method: TO3 - Volatile Organic Compounds in Ambient Air, Cryogenic Pre-Conc Techniques (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
TPH (as Gasoline)	ND		3.2		ppm v/v			02/15/13 18:21	1.78

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
TPH (as Gasoline)	ND		13000		ug/m3			02/15/13 18:21	1.78

Client: Kawahara Nursery, Inc
Project/Site: Kawahara / Soil Gas Sampling

TestAmerica Job ID: 340-6190-1

Client Sample ID: SG2
Date Collected: 02/08/13 09:11
Date Received: 02/13/13 12:00
Sample Container: Summa Canister 6L

Lab Sample ID: 340-6190-2
Matrix: Air

Method: D1946 - Fixed Gases in Air (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oxygen	**22**		0.36		% v/v			02/15/13 11:24	1.78

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oxygen	**140000000**		2300000		ug/m3			02/15/13 11:24	1.78

Method: TO3 - Volatile Organic Compounds in Ambient Air, Cryogenic Pre-Conc Techniques (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
TPH (as Gasoline)	ND		3.2		ppm v/v			02/15/13 19:32	1.78

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
TPH (as Gasoline)	ND		13000		ug/m3			02/15/13 19:32	1.78

Client: Kawahara Nursery, Inc
Project/Site: Kawahara / Soil Gas Sampling

TestAmerica Job ID: 340-6190-1

Client Sample ID: SG1
Date Collected: 02/08/13 09:43
Date Received: 02/13/13 12:00
Sample Container: Summa Canister 6L

Lab Sample ID: 340-6190-3
Matrix: Air

Method: D1946 - Fixed Gases in Air (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oxygen	22		0.39		% v/v			02/15/13 11:42	1.94

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oxygen	140000000		2500000		ug/m3			02/15/13 11:42	1.94

Method: TO3 - Volatile Organic Compounds in Ambient Air, Cryogenic Pre-Conc Techniques (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
TPH (as Gasoline)	ND		3.5		ppm v/v			02/15/13 19:52	1.94

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
TPH (as Gasoline)	ND		14000		ug/m3			02/15/13 19:52	1.94

Method: D1946 - Fixed Gases in Air (GC)

Lab Sample ID: MB 340-4062/10
Matrix: Air
Analysis Batch: 4062

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oxygen	ND		0.20		% v/v			02/15/13 06:50	1

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oxygen	ND		1300000		ug/m3			02/15/13 06:50	1

Lab Sample ID: LCS 340-4062/6
Matrix: Air
Analysis Batch: 4062

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Oxygen			2.49	2.65		% v/v		107	80 - 120		

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Oxygen			16000000	17400000		ug/m3		107	80 - 120		

Lab Sample ID: LCSD 340-4062/7
Matrix: Air
Analysis Batch: 4062

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Oxygen			2.49	2.65		% v/v		107	80 - 120	0	20

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Oxygen			16000000	17400000		ug/m3		107	80 - 120	0	20

Method: TO3 - Volatile Organic Compounds in Ambient Air, Cryogenic Pre-Conc Techniques (GC)

Lab Sample ID: MB 340-4064/8
Matrix: Air
Analysis Batch: 4064

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
TPH (as Gasoline)	ND		1.8		ppm v/v			02/15/13 12:16	1

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
TPH (as Gasoline)	ND		7400		ug/m3			02/15/13 12:16	1

Lab Sample ID: LCS 340-4064/6
Matrix: Air
Analysis Batch: 4064

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
TPH (as Gasoline)			63.7	57.6		ppm v/v		90	80 - 131		

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
TPH (as Gasoline)			260000	236000		ug/m3		90	80 - 131		

Method: TO3 - Volatile Organic Compounds in Ambient Air, Cryogenic Pre-Conc Techniques (GC) (Continued)

Lab Sample ID: LCSD 340-4064/7
Matrix: Air
Analysis Batch: 4064

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH (as Gasoline)			63.7	58.7		ppm v/v		92	80 - 131	2	20

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH (as Gasoline)			260000	240000		ug/m3		92	80 - 131	2	20

QC Association Summary

Client: Kawahara Nursery, Inc
Project/Site: Kawahara / Soil Gas Sampling

TestAmerica Job ID: 340-6190-1

GC VOA

Analysis Batch: 4062

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
340-6190-1	SG3	Total/NA	Air	D1946	
340-6190-2	SG2	Total/NA	Air	D1946	
340-6190-3	SG1	Total/NA	Air	D1946	
LCS 340-4062/6	Lab Control Sample	Total/NA	Air	D1946	
LCSD 340-4062/7	Lab Control Sample Dup	Total/NA	Air	D1946	
MB 340-4062/10	Method Blank	Total/NA	Air	D1946	

Air - GC VOA

Analysis Batch: 4064

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
340-6190-1	SG3	Total/NA	Air	TO3	
340-6190-2	SG2	Total/NA	Air	TO3	
340-6190-3	SG1	Total/NA	Air	TO3	
LCS 340-4064/6	Lab Control Sample	Total/NA	Air	TO3	
LCSD 340-4064/7	Lab Control Sample Dup	Total/NA	Air	TO3	
MB 340-4064/8	Method Blank	Total/NA	Air	TO3	

Lab Chronicle

Client: Kawahara Nursery, Inc
Project/Site: Kawahara / Soil Gas Sampling

TestAmerica Job ID: 340-6190-1

Client Sample ID: SG3

Lab Sample ID: 340-6190-1

Date Collected: 02/08/13 08:42

Matrix: Air

Date Received: 02/13/13 12:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D1946		1.78	4062	02/15/13 11:05	EI	TAL LA
	Instrument ID: GC8							
Total/NA	Analysis	TO3		1.78	4064	02/15/13 18:21	JGA	TAL LA
	Instrument ID: GC7							

Client Sample ID: SG2

Lab Sample ID: 340-6190-2

Date Collected: 02/08/13 09:11

Matrix: Air

Date Received: 02/13/13 12:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D1946		1.78	4062	02/15/13 11:24	EI	TAL LA
	Instrument ID: GC8							
Total/NA	Analysis	TO3		1.78	4064	02/15/13 19:32	JGA	TAL LA
	Instrument ID: GC7							

Client Sample ID: SG1

Lab Sample ID: 340-6190-3

Date Collected: 02/08/13 09:43

Matrix: Air

Date Received: 02/13/13 12:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D1946		1.94	4062	02/15/13 11:42	EI	TAL LA
	Instrument ID: GC8							
Total/NA	Analysis	TO3		1.94	4064	02/15/13 19:52	JGA	TAL LA
	Instrument ID: GC7							

Laboratory References:

TAL LA = TestAmerica Costa Mesa, 3585 Cadillac Ave, Suite A, Costa Mesa, CA 92626, TEL (714)258-8610

Certification Summary

Client: Kawahara Nursery, Inc
Project/Site: Kawahara / Soil Gas Sampling

TestAmerica Job ID: 340-6190-1

Laboratory: TestAmerica Costa Mesa

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Arizona	State Program	9	AZ0727	02-09-14
Florida	NELAP	4	E87652	06-30-13
L-A-B	DoD ELAP		L2273	11-09-13
Louisiana	NELAP	6	01948	06-30-13
New York	NELAP	2	11851	04-01-13
Oregon	NELAP	10	CA200013	07-19-13
Utah	NELAP	8	CA000032012-1	06-30-13
Washington	State Program	10	C579	11-29-13

Method Summary

Client: Kawahara Nursery, Inc
Project/Site: Kawahara / Soil Gas Sampling

TestAmerica Job ID: 340-6190-1

Method	Method Description	Protocol	Laboratory
D1946	Fixed Gases in Air (GC)	ASTM	TAL LA
TO3	Volatile Organic Compounds in Ambient Air, Cryogenic Pre-Conc Techniques (GC)	EPA	TAL LA

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

Laboratory References:

TAL LA = TestAmerica Costa Mesa, 3585 Cadillac Ave, Suite A, Costa Mesa, CA 92626, TEL (714)258-8610

Sample Summary

Client: Kawahara Nursery, Inc
Project/Site: Kawahara / Soil Gas Sampling

TestAmerica Job ID: 340-6190-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
340-6190-1	SG3	Air	02/08/13 08:42	02/13/13 12:00
340-6190-2	SG2	Air	02/08/13 09:11	02/13/13 12:00
340-6190-3	SG1	Air	02/08/13 09:43	02/13/13 12:00

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

ANALYTICAL REPORT

PROJECT NO. 340-6190

Kawahara / Soil Gas Sampling

Lot #: H3B200404

Sonia Tabirara

TestAmerica Costa Mesa
3585 Cadillac Ave
Suite A
Costa Mesa, CA 92626

TESTAMERICA LABORATORIES, INC.

Terry Wasmund
Project Manager

February 21, 2013

ANALYTICAL METHODS SUMMARY

H3B200404

PARAMETER	ANALYTICAL METHOD
Volatile Organics by TO15	EPA-2 TO-15

References:

EPA-2 "Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air", EPA-625/R-96/010b, January 1999.

SAMPLE SUMMARY

H3B200404

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
MX6M1	001	SG3	02/08/13	08:42
MX6M3	002	SG2	02/08/13	09:11
MX6M5	003	SG1	02/08/13	09:43

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

PROJECT NARRATIVE
H3B200404

The results reported herein are applicable to the samples submitted for analysis only. If you have any questions about this report, please call (865) 291-3000 to speak with the TestAmerica project manager listed on the cover page.

This report shall not be reproduced except in full, without the written approval of the laboratory.

The original chain of custody documentation is included with this report.

Sample Receipt

Custody seals were not present.

Quality Control and Data Interpretation

Unless otherwise noted, all holding times and QC criteria were met and the test results shown in this report meet all applicable NELAC requirements.

EPA methods TO-14A and TO-15 specify the use of humidified "zero air" as the blank reagent for canister cleaning, instrument calibration and sample analysis. Ultra-high purity humidified nitrogen from a cryogenic reservoir is used in place of "zero air" by TestAmerica Knoxville.

CERTIFICATION SUMMARY

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Knoxville	L-A-B	DoD ELAP		L2311
TestAmerica Knoxville	Arkansas DEQ	State Program	6	88-0688
TestAmerica Knoxville	California	State Program	9	2423
TestAmerica Knoxville	Colorado	State Program	8	N/A
TestAmerica Knoxville	Connecticut	State Program	1	PH-0223
TestAmerica Knoxville	Florida	NELAC	4	E87177
TestAmerica Knoxville	Georgia	State Program	4	906
TestAmerica Knoxville	Hawaii	State Program	9	N/A
TestAmerica Knoxville	Indiana	State Program	5	C-TN-02
TestAmerica Knoxville	Iowa	State Program	7	375
TestAmerica Knoxville	Kansas	NELAC	7	E-10349
TestAmerica Knoxville	Kentucky	State Program	4	90101
TestAmerica Knoxville	Louisiana DOHH	State Program	6	LA110001
TestAmerica Knoxville	Louisiana DEQ	NELAC	6	83979
TestAmerica Knoxville	Maryland	State Program	3	277
TestAmerica Knoxville	Michigan	State Program	5	9933
TestAmerica Knoxville	Minnesota	NELAC	5	047-999-429
TestAmerica Knoxville	Nevada	State Program	9	TN00009
TestAmerica Knoxville	New Jersey	NELAC	2	TN001
TestAmerica Knoxville	New York	NELAC	2	10781
TestAmerica Knoxville	North Carolina DENR	State Program	4	64
TestAmerica Knoxville	North Carolina DHHS	State Program	4	21705
TestAmerica Knoxville	Ohio	OVAP	5	CL0059
TestAmerica Knoxville	Oklahoma	State Program	6	9415
TestAmerica Knoxville	Pennsylvania	NELAC	3	68-00576
TestAmerica Knoxville	South Carolina	State Program	4	84001
TestAmerica Knoxville	Tennessee	State Program	4	2014
TestAmerica Knoxville	Texas	NELAC	6	T104704380-TX
TestAmerica Knoxville	Federal	USDA		P330-11-00035
TestAmerica Knoxville	Utah	NELAC	8	QUAN3
TestAmerica Knoxville	Virginia	NELAC	3	460176
TestAmerica Knoxville	Virginia	State Program	3	165
TestAmerica Knoxville	Washington	State Program	10	C593
TestAmerica Knoxville	West Virginia DEP	State Program	3	345
TestAmerica Knoxville	West Virginia DHHR	State Program	3	9955C

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

TestAmerica Costa Mesa

Client Sample ID: SG3

GC/MS Volatiles

Lot-Sample # H3B200404 - 001 **Work Order #** MX6M11AA **Matrix.....:** AIR

Date Sampled...: 02/08/2013 **Date Received..:** 02/20/2013
Prep Date.....: 02/20/2013 **Analysis Date...** 02/20/2013
Prep Batch #.....: 3052014
Dilution Factor.: 1 **Method.....:** TO-15

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
Benzene	**0.10**	**0.080**	**0.33**	**0.26**
Ethylbenzene	**0.083**	**0.080**	**0.36**	**0.35**
Methyl tert-butyl ether	ND	0.40	ND	1.4
Naphthalene	ND	0.20	ND	1.0
Toluene	**0.33**	**0.080**	**1.2**	**0.30**
m-Xylene & p-Xylene	**0.46**	**0.080**	**2.0**	**0.35**
o-Xylene	**0.15**	**0.080**	**0.66**	**0.35**

TENTATIVELY INDENTIFIED COMPOUNDS	RESULT	UNITS
1,1-difluoroethane	ND	ppb(v/v)

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	108	60 - 140

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

TestAmerica Costa Mesa

Client Sample ID: SG2

GC/MS Volatiles

Lot-Sample #	H3B200404 - 002	**Work Order #**	MX6M31AA	**Matrix.....:**	AIR
Date Sampled...:	02/08/2013	**Date Received..:**	02/20/2013		
Prep Date.....:	02/20/2013	**Analysis Date...**	02/20/2013		
Prep Batch #.....:	3052014				
Dilution Factor.:	1	**Method.....:**	TO-15		

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
Benzene	**0.45**	**0.080**	**1.4**	**0.26**
Ethylbenzene	**0.37**	**0.080**	**1.6**	**0.35**
Methyl tert-butyl ether	ND	0.40	ND	1.4
Naphthalene	**0.21**	**0.20**	**1.1**	**1.0**
Toluene	**1.9**	**0.080**	**7.1**	**0.30**
m-Xylene & p-Xylene	**1.7**	**0.080**	**7.2**	**0.35**
o-Xylene	**0.49**	**0.080**	**2.1**	**0.35**

TENTATIVELY INDENTIFIED COMPOUNDS	RESULT	UNITS
1,1-difluoroethane	ND	ppb(v/v)

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	106	60 - 140

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

TestAmerica Costa Mesa

Client Sample ID: SG1

GC/MS Volatiles

Lot-Sample # H3B200404 - 003 **Work Order #** MX6M51AA **Matrix.....:** AIR

Date Sampled...: 02/08/2013 **Date Received..:** 02/20/2013
Prep Date.....: 02/20/2013 **Analysis Date...** 02/20/2013
Prep Batch #.....: 3052014
Dilution Factor.: 1 **Method.....:** TO-15

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
Benzene	**0.13**	**0.080**	**0.40**	**0.26**
Ethylbenzene	ND	0.080	ND	0.35
Methyl tert-butyl ether	ND	0.40	ND	1.4
Naphthalene	**4.7**	**0.20**	**25**	**1.0**
Toluene	**0.31**	**0.080**	**1.2**	**0.30**
m-Xylene & p-Xylene	**0.40**	**0.080**	**1.8**	**0.35**
o-Xylene	**0.13**	**0.080**	**0.58**	**0.35**

TENTATIVELY INDENTIFIED COMPOUNDS	RESULT	UNITS
1,1-difluoroethane	ND	ppb(v/v)

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	105	60 - 140

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

TestAmerica Costa Mesa

Client Sample ID: INTRA-LAB BLANK

GC/MS Volatiles

Lot-Sample #	H3B210000 - 014B	**Work Order #**	MX6XP1AA	**Matrix.....:**	AIR
	02/08/2013	**Date Received..:**	02/20/2013		
Prep Date.....:	02/20/2013	**Analysis Date...**	02/20/2013		
Prep Batch #.....:	3052014				
Dilution Factor.:	1	**Method.....:**	TO-15		

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
Benzene	ND	0.080	ND	0.26
Ethylbenzene	ND	0.080	ND	0.35
Methyl tert-butyl ether	ND	0.40	ND	1.4
Naphthalene	ND	0.20	ND	1.0
Toluene	ND	0.080	ND	0.30
m-Xylene & p-Xylene	ND	0.080	ND	0.35
o-Xylene	ND	0.080	ND	0.35

TENTATIVELY INDENTIFIED COMPOUNDS	RESULT	UNITS
None		

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	100	60 - 140

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

TestAmerica Costa Mesa

Client Sample ID: CHECK SAMPLE

GC/MS Volatiles

Lot-Sample # H3B210000 - 014C **Work Order #** MX6XP1AC **Matrix.....:** AIR

	02/08/2013	**Date Received..:**	02/20/2013
Prep Date.....:	02/20/2013	**Analysis Date...**	02/20/2013
Prep Batch #.....:	3052014		
Dilution Factor.:	1	**Method.....:**	TO-15

PARAMETER	SPIKE AMOUNT (ppb(v/v))	MEASURED AMOUNT (ppb(v/v))	SPIKE AMOUNT (ug/m3)	MEASURED AMOUNT (ug/m3)	PERCENT RECOVERY	RECOVERY LIMITS
Benzene	5.00	4.63	16	14.8	93	70 - 130
Ethylbenzene	5.00	4.92	22	21.4	98	70 - 130
Methyl tert-butyl ether	5.00	5.22	18	18.8	104	60 - 140
Naphthalene	5.00	4.00	26	20.9	80	40 - 140
Toluene	5.00	4.76	19	18.0	95	70 - 130
m-Xylene & p-Xylene	10.0	10.6	43	45.9	106	70 - 130
o-Xylene	5.00	5.38	22	23.3	108	70 - 130

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	110	60 - 140

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

H3B201404

TestAmerica Costa Mesa
3585 Cadillac Ave Suite A
Costa Mesa, CA 92626
Phone (714) 258-8610 Fax (714) 258-0921

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Tabirara, Marisol (Sonia)	Carrier Tracking No(s):	COC No: 340-4327.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: sonia.tabirara@testamericainc.com		Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Analysis Requested		Job #: 340-6190-1
Address: 5815 Middlebrook Pike, ,	Due Date Requested: ~~3/6/2013~~ 2/25/13			
City: Knoxville	TAT Requested (days): WDT 2/19/13			
State, Zip: TN, 37921				
Phone: 865-291-3000(Tel) 865-584-4315(Fax)	PO #:			
Email:	WO #:			
Project Name: Kawahara / Soil Gas Sampling	Project #: 34001675			
Site:	SSOW#:			

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SUBCONTRACT/ TO15 sub to TA Knoxville	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
SG3 (340-6190-1)	2/8/13	08:42 Pacific		Air			X	1	
SG2 (340-6190-2)	2/8/13	09:11 Pacific		Air			X	1	
SG1 (340-6190-3)	2/8/13	09:43 Pacific		Air			X	1	

1 Box Rec'd @ Ambient Temp without custody Seal
GH 2/20/13
1 Box FedEx #
7947 9526 3085

Possible Hazard Identification
Unconfirmed

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
2/19/13 11:30				2/20/13 1133	TAKnox
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

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2/21/2013

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TESTAMERICA KNOXVILLE SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST

Lot Number: H3B200404

Review Items	Yes	No	NA	If No, what was the problem?	Comments/Actions Taken
1. Do sample container labels match COC? (IDs, Dates, Times)	✓			☐ **1a** Do not match COC ☐ **1b** Incomplete information ☐ **1c** Marking smeared ☐ **1d** Label torn ☐ **1e** No label ☐ **1f** COC not received ☐ **1g** Other:	NA
2. Is the cooler temperature within limits? (> freezing temp. of water to 6 °C, VOST: 10°C)	✓			☐ **2a** Temp Blank = _____ ☐ **2b** Cooler Temp = _____ ☐ **2c** Cooling initiated for recently collected samples, ice present.	
3. Were samples received with correct chemical preservative (excluding Encore)?			✓	☐ **3a** Sample preservative =	
4. Were custody seals present/intact on cooler and/or containers?		✓		☐ **4a** Not present ☐ **4b** Not intact ☐ **4c** Other:	
5. Were all of the samples listed on the COC received?	✓			☐ **5a** Samples received-not on COC ☐ **5b** Samples not received-on COC	
6. Were all of the sample containers received intact?	✓			☐ **6a** Leaking ☐ **6b** Broken	
7. Were VOA samples received without headspace?			✓	☐ **7a** Headspace (VOA only)	
8. Were samples received in appropriate containers?	✓			☐ **8a** Improper container	
9. Did you check for residual chlorine, if necessary?			✓	☐ **9a** Could not be determined due to matrix interference	
10. Were samples received within holding time?	✓			☐ **10a** Holding time expired	
11. For rad samples, was sample activity info. provided?			✓	☐ Incomplete information	
12. For 1613B water samples is pH<9?			✓	If no, was pH adjusted to pH 7 - 9 with sulfuric acid? _____	
13. Are the shipping containers intact?	✓			☐ **13a** Leaking ☐ **13b** Other:	
14. Was COC relinquished? (Signed/Dated/Timed)	✓			☐ **14a** Not relinquished	
15. Are tests/parameters listed for each sample?	✓			☐ **15a** Incomplete information	
16. Is the matrix of the samples noted?	✓			☐ **15a** Incomplete information	
17. Is the date/time of sample collection noted?	✓			☐ **15a** Incomplete information	
18. Is the client and project name/# identified?	✓			☐ **15a** Incomplete information	
19. Was the sampler identified on the COC?		✓		☐ **19a** Other	

Quote #: 91184 PM Instructions: NA

Sample Receiving Associate: _____ Date: 2/20/13

QA026R23.doc, 022812

Lot Number: *H3B200404*

Initial Can Pressure							Subsequent Dilutions											
Analyst/Date	Can or Tedlar bag prep Time	Baro ID B2 Pbarr (in)	Sample ID	Can #	Pres. upon receipt (-in or + psig)	Adj. Initial Pres. (-in or + psig)	Analyst/Date	I / S	Baro ID___ Pbarr (in)	Initial Pres. Pi (in)	Final Pres. Pf (psig)	First InCan Final Pres. Pf (psig)	Second In-can Final Pres. Pf (psig)	Third InCan Final Pres. Pf (psig)	Serial Dilution Can #	Vol (mL)	Final Pres. Pf (psig)	Comments
12/20/12	1100	29.11	MX6M1	1143	+8.4	-												COSTA Mesa
			MX6M3	0008	+5.3	-												
			MX6M5	0499	+2.5	-												

TestAmerica
3585 Cadillac Ave., Suite A
Costa Mesa, CA 92626
Phone 714-258-8610 Fax 714-258-0921

Canister Samples Chain of Custody Record

TestAmerica Laboratories, Inc. assumes no liability with respect to the collection and shipment of these samples.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

340-6190

Client Contact Information John Kawahara	**Project Manager:** Frank Goldman		1 of 1 COCs
Company: Kawahara Nursery	Phone: 707 694-1375	**Samples Collected By:** TEG field tech under supervision of FGoldman	
Address: 689 Burnet	Email: Frank.Goldman@ymail.com		
City/State/Zip Morgan Hill, CA 95037	Site Contact:		
Phone: 408 640 4289	LAB Contact: Sonia		
~~FAX~~ JohnK@kniplants.com	Analysis Turnaround Time		
Project Name: Kawahara	Standard (Specify) ✓		
Site: 16550 Ashland, San Lorenzo	Rush (Specify)		
PO # None			

Sample Identification	Sample Date(s)	Time Start	Time Stop	Canister Vacuum in Field, "Hg (Start)	Canister Vacuum in Field, 'Hg (Stop)	Flow Controller ID	Canister ID	TO-15	TO-14A	TO-3	EPA 3C	EPA 25C	ASTM D-1946 for O2	Other (Please specify in notes section)	Sample Type	Indoor Air	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)
SG3	02/08/13	842	1205	-30	-3	HF145	~~34000469~~ 2401143	✓		✓			✓					✓		
SG2	02/08/13	911	1208	-30	-3	HF091	34000008	✓		✓			✓					✓		
SG1	02/08/13	943	1211	-30	-3	HF006	34000499	✓		✓			✓					✓		

Temperature (Fahrenheit)			
	Interior	Ambient	
Start			
Stop			

Pressure (inches of Hg)			
	Interior	Ambient	
Start			
Stop			

Special Instructions/QC Requirements & Comments:

Samples Shipped by: J. Goldman	Date/Time: 8/11/13 4:45pm	Samples Received by:	2/13/13 12:00
Samples Relinquished by:	Date/Time:	Received by:	
Relinquished by:	Date/Time:	Received by:	

Lab Use Only Shipper Name: Opened by: Condition:

TAL-8604-340(0312)

Login Sample Receipt Checklist

Client: Kawahara Nursery, Inc

Job Number: 340-6190-1

Login Number: 6190

List Source: TestAmerica Costa Mesa

List Number: 1

Creator: Morales, Sergio

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	N/A	
Cooler Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

CANISTER FIELD DATA RECORD

CLIENT: TEG
CANISTER SERIAL #: 340011143
DATE CLEANED: 340-5599
CLIENT SAMPLE #: SG3
SITE LOCATION:

VFR ID: HF145
Duration of comp. : — Hrs. / mins.
Flow setting: 200 ml/min
Initials:

READING	TIME	Vac. (inches Hg) Or PRESS. (psig)	DATE	INITIALS
INITIAL VACUUM CHECK	[redacted]	30"	2/5/13	
INITIAL FIELD VACUUM	~~1215~~ ~~30~~	-30	2/8/13	CVS
FINAL FIELD READING	~~3~~	-3	2/8/13	CVS

LABORATORY CANISTER PRESSURIZATION			
INITIAL VACUUM (Inches Hg / PSIA (circle unit used))	13.90	2/14/13	GT
FINAL PRESSURE (PSIA)	24.80	2/14/13	GT

Pressurization Gas: N_2

COMMENTS:

COMPOSITE TIME (HOURS)	FLOW RATE RANGE (ml/min)
15 Min.	316 – 333
30 Min.	158 – 166.7
1	79.2 – 83.3
2	39.6 – 41.7
4	19.8 – 20.8
6	13.2 – 13.9
8	9.9 – 10.4
10	7.92 – 8.3
12	6.6 – 6.9
24	3.5 – 4.0

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

CANISTER FIELD DATA RECORD

CLIENT: TEG
CANISTER SERIAL #: 340000008, 340-5174
DATE CLEANED:
CLIENT SAMPLE #: SG2
SITE LOCATION:

VFR ID: HF091
Duration of comp. : ~ Hrs. / mins.
Flow setting: 200 ml/min
Initials:

READING	TIME	Vac. (Inches Hg) Or PRESS. (psig)	DATE	INITIALS
INITIAL VACUUM CHECK	[redacted]	30"	2/5/13	
INITIAL FIELD VACUUM	1305	-30	2/8/13	CVS
FINAL FIELD READING	~3	-3	2/8/13	CVS

LABORATORY CANISTER PRESSURIZATION			
INITIAL VACUUM (Inches Hg / PSIA (circle unit used))	13.92	2/14/13	
FINAL PRESSURE (PSIA)	24.76	2/14/13	

Pressurization Gas: N2

COMMENTS:

COMPOSITE TIME (HOURS)	FLOW RATE RANGE (ml/min)
15 Min.	316 – 333
30 Min.	158 – 166.7
1	79.2 – 83.3
2	39.6 – 41.7
4	19.8 – 20.8
6	13.2 – 13.9
8	9.9 – 10.4
10	7.92 – 8.3
12	6.6 – 6.9
24	3.5 – 4.0

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

CANISTER FIELD DATA RECORD

CLIENT: TEG
CANISTER SERIAL #: 340000499
DATE CLEANED: 340-58166
CLIENT SAMPLE #: SG1
SITE LOCATION:

VFR ID: HF006
Duration of comp. : — Hrs. / mins.
Flow setting: 200 ml/min
Initials:

READING	TIME	Vac. (inches Hg) Or PRESS. (psig)	DATE	INITIALS
INITIAL VACUUM CHECK	[redacted]	30"	2/5/13	
INITIAL FIELD VACUUM	1211 30	-30	2/8/13	CLS
FINAL FIELD READING	-3	-3	2/8/13	CLS

LABORATORY CANISTER PRESSURIZATION			
INITIAL VACUUM (Inches Hg / PSIA (circle unit used))	12.81	2/14/13	EJ
FINAL PRESSURE (PSIA)	24.80	2/14/13	EJ

Pressurization Gas: N_2

COMMENTS:

COMPOSITE TIME (HOURS)	FLOW RATE RANGE (ml/min)
15 Min.	316 – 333
30 Min.	158 – 166.7
1	79.2 – 83.3
2	39.6 – 41.7
4	19.8 – 20.8
6	13.2 – 13.9
8	9.9 – 10.4
10	7.92 – 8.3
12	6.6 – 6.9
24	3.5 – 4.0

CANISTER QC CERTIFICATION

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Certification Type: TO-15 SIM(SCAN

Date Cleaned/Batch A122912C 340-5599

Date of QC 01-01-13 010913

Data File Number LM301213 (MSV) MB01033.D (SIM-MSD)

CANISTER ID NUMBERS

* 34000224	34001143
0701	0727
0222	0691
1160	1232
1171	0690
1166	0726

1/29/13

The above canisters were cleaned as a batch. This certifies this batch contains no target analyte concentration greater than or equal to the method criteria for the "*Certification Type*" indicated above.

"*" INDICATES THE CAN OR CANS WHICH WERE SCREENED.

Reviewed By: by 01-02-13 010213
Date:

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CANISTER QC CERTIFICATION

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Certification Type: TO-15 SIM/SCAN

Date Cleaned/Batch: AQ1533C 340-5774

Date of QC: 01/16/13 01-17-13

Data File Number: MB011613.D (SIM-MS5) MB011713 (SCAN-MS2)

CANISTER ID NUMBERS

*34000081	34000008
1130	0613
0385	0208
1395	1212
0420	0389
1337	0575

The above canisters were cleaned as a batch. This certifies this batch contains no target analyte concentration greater than or equal to the method criteria for the "*Certification Type*" indicated above.

"*" INDICATES THE CAN OR CANS WHICH WERE SCREENED.

Reviewed By: _____ Date: 01-18-13

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CANISTER QC CERTIFICATION

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Certification Type: TO-15

Date Cleaned/Batch: A012113E 340-58866

Date of QC: 01-22-13

Data File Number: w301222(MSA)

CANISTER ID NUMBERS

*34001662	34000894
0182	0581
0499	0879
1253	0780
1339	0173
0579	1280

The above canisters were cleaned as a batch. This certifies this batch contains no target analyte concentration greater than or equal to the method criteria for the "*Certification Type*" indicated above.

"*" INDICATES THE CAN OR CANS WHICH WERE SCREENED.

Reviewed By:

01-22-13
Date:

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FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Costa Mesa Job No.: 340-5599-1

SDG No.:

Client Sample ID: 34000224 Lab Sample ID: 340-5599-1

Matrix: Air Lab File ID: MB01033.D

Analysis Method: TO-15 SIM Date Collected: 12/29/2012 00:00

Sample wt/vol: 500(mL) Date Analyzed: 01/03/2013 11:26

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: See SOP ID:

% Moisture: Level: (low/med) Low

Analysis Batch No.: 3700 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	ND		0.020	0.0080
100-44-7	Benzyl chloride	ND		0.10	0.050
75-27-4	Bromodichloromethane	ND		0.012	0.0050
56-23-5	Carbon tetrachloride	ND	*	0.010	0.0050
108-90-7	Chlorobenzene	ND		0.020	0.0080
75-00-3	Chloroethane	ND		0.045	0.020
67-66-3	Chloroform	ND		0.020	0.0050
74-87-3	Chloromethane	ND		0.20	0.080
124-48-1	Dibromochloromethane	ND		0.010	0.0050
106-93-4	1,2-Dibromoethane (EDB)	ND		0.010	0.0050
95-50-1	1,2-Dichlorobenzene	ND		0.050	0.020
541-73-1	1,3-Dichlorobenzene	ND		0.10	0.020
106-46-7	1,4-Dichlorobenzene	ND		0.10	0.020
75-71-8	Dichlorodifluoromethane	ND		0.010	0.0050
75-34-3	1,1-Dichloroethane	ND		0.020	0.0050
107-06-2	1,2-Dichloroethane	ND		0.020	0.0050
75-35-4	1,1-Dichloroethene	ND		0.020	0.0080
156-59-2	cis-1,2-Dichloroethene	ND		0.020	0.0080
156-60-5	trans-1,2-Dichloroethene	ND		0.020	0.0080
78-87-5	1,2-Dichloropropane	ND		0.040	0.020
10061-01-5	cis-1,3-Dichloropropene	ND		0.020	0.0080
10061-02-6	trans-1,3-Dichloropropene	ND		0.020	0.0080
123-91-1	1,4-Dioxane	ND		0.10	0.050
100-41-4	Ethylbenzene	ND		0.020	0.0080
87-68-3	Hexachlorobutadiene	ND		0.020	0.010
1634-04-4	Methyl-t-Butyl Ether (MTBE)	ND		0.025	0.012
75-09-2	Methylene Chloride	ND	*	0.20	0.050
91-20-3	Naphthalene	ND	*	0.013	0.010
100-42-5	Styrene	ND		0.030	0.010
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.020	0.010
127-18-4	Tetrachloroethene	ND		0.020	0.0080
108-88-3	Toluene	ND		0.020	0.0080
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.030	0.0080
120-82-1	1,2,4-Trichlorobenzene	ND		0.050	0.025
71-55-6	1,1,1-Trichloroethane	ND		0.020	0.0080

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Costa Mesa Job No.: 340-5599-1

SDG No.:

Client Sample ID: 34000224 Lab Sample ID: 340-5599-1

Matrix: Air Lab File ID: MB01033.D

Analysis Method: TO-15 SIM Date Collected: 12/29/2012 00:00

Sample wt/vol: 500(mL) Date Analyzed: 01/03/2013 11:26

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: See SOP ID:

% Moisture: Level: (low/med) Low

Analysis Batch No.: 3700 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-00-5	1,1,2-Trichloroethane	ND		0.050	0.020
79-01-6	Trichloroethene	ND		0.020	0.0050
75-69-4	Trichlorofluoromethane	ND		0.045	0.010
75-01-4	Vinyl chloride	ND		0.020	0.0050
179601-23-1	m,p-Xylene	ND		0.040	0.016
95-47-6	o-Xylene	ND		0.020	0.0080

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	93		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	93		70-130
2037-26-5	Toluene-d8 (Surr)	93		70-130

TestAmerica Costa Mesa
Target Compound Quantitation Report

Data File:	\\Lachrom\ChromData\MSD\20130103-2545.b\MB01033.D		
Lims ID:	340-5599-A-1	Client ID:	34000224
Inject. Date:	03-Jan-2013 11:26:30	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	340-5599-A-1		
Misc. Info.:	340-0002545-006		
Operator:	DLK	Instrument ID:	MSD
Purge Vol:	500.000 mL	ALS Bottle#:	10
Lims Batch ID:	3700	Lims Sample ID:	6
Detector:	MS SCAN		
Method:	\\Lachrom\ChromData\MSD\20130103-2545.b\TO15_MSD.m		
Method Label:	TO-15 SIM		
Last Update:	03-Jan-2013 12:29:10	Calib Date:	09-Dec-2012 16:10:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\Lachrom\ChromData\MSD\20121209-2400.b\IC1209A.D		
Limit Group:	TO-15_SIM_ICAL		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:	Rtx-Volatiles	Column Dia:	0.32 mm
Process Host:	XAWRK022		
First Level Reviewer: yabutl		Date:	03-Jan-2013 12:29:10

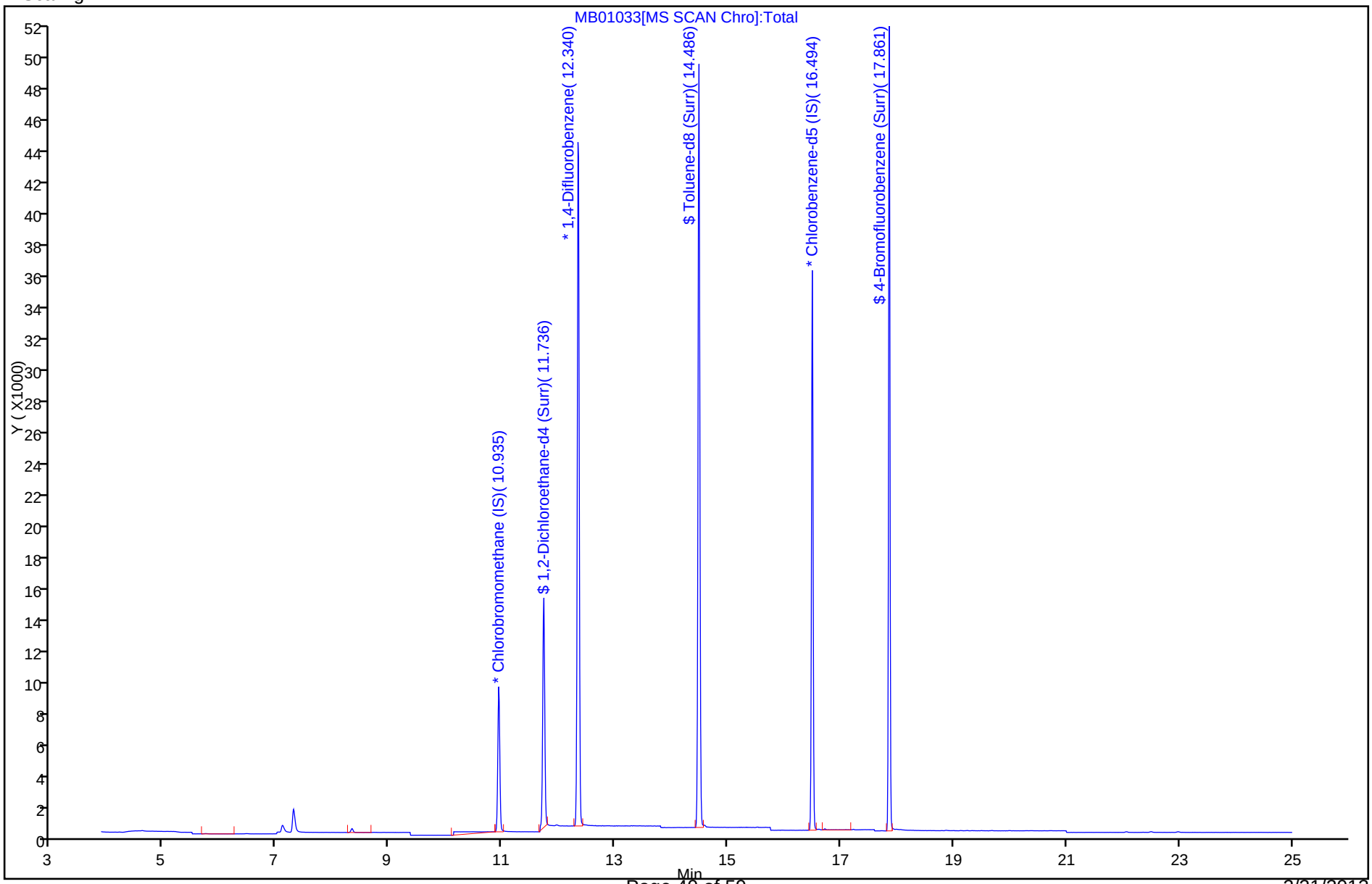
Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ppb v/v	Flags
* 15 Chlorobromomethane (IS)	130	10.935	10.935	0.0	100	22828	2.00	
$ 17 1,2-Dichloroethane-d4 (Surr)	65	11.736	11.736	0.0	100	32672	1.86	
* 21 1,4-Difluorobenzene	114	12.351	12.340	0.011	100	72430	2.00	
$ 27 Toluene-d8 (Surr)	98	14.486	14.476	0.010	100	58953	1.86	
* 34 Chlorobenzene-d5 (IS)	117	16.494	16.494	0.0	100	66865	2.00	
$ 41 4-Bromofluorobenzene (Surr)	95	17.861	17.852	0.009	96	45192	1.86	

Report Date: 03-Jan-2013 12:29:10 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Costa Mesa

Data File:	\\Lachrom\ChromData\MSD\20130103-2545.b\MB01033.D		
Injection Date:	03-Jan-2013 11:26:30	Limit Group:	TO-15_SIM_ICAL
Client ID:	34000224	Instrument ID:	MSD
Lims Batch ID:	3700	Lims Sample ID:	6
Operator ID:	DLK	Purge Vol:	500.000 mL
Column Type:	Rtx-Volatiles	Column Dia:	0.32 mm

Y Scaling:



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Costa Mesa Job No.: 340-5599-1

SDG No.:

Client Sample ID: 34000224 Lab Sample ID: 340-5599-1

Matrix: Air Lab File ID: MB12323.d

Analysis Method: TO-15 Date Collected: 12/29/2012 00:00

Sample wt/vol: 250(mL) Date Analyzed: 01/01/2013 05:52

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: See SOP ID:

% Moisture: Level: (low/med) Low

Analysis Batch No.: 3674 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	ND		1.2	0.60
107-02-8	Acrolein	ND		2.5	0.70
107-13-1	Acrylonitrile	ND		2.0	0.40
107-05-1	Allyl chloride	ND		0.80	0.40
71-43-2	Benzene	ND		0.40	0.20
100-44-7	Benzyl chloride	ND		0.80	0.20
75-27-4	Bromodichloromethane	ND		0.30	0.15
75-25-2	Bromoform	ND		0.80	0.20
74-83-9	Bromomethane	ND		0.80	0.20
106-99-0	1,3-Butadiene	ND		0.80	0.20
106-97-8	n-Butane	ND		0.50	0.20
78-93-3	2-Butanone (MEK)	ND		0.80	0.40
75-65-0	tert-Butyl alcohol (TBA)	ND		5.0	1.5
104-51-8	n-Butylbenzene	ND		0.80	0.20
135-98-8	sec-Butylbenzene	ND		0.50	0.20
98-06-6	tert-Butylbenzene	ND		0.80	0.20
75-15-0	Carbon disulfide	ND		0.80	0.20
56-23-5	Carbon tetrachloride	ND		0.80	0.20
75-00-3	Chloroethane	ND		1.5	0.70
108-90-7	Chlorobenzene	ND		0.30	0.10
75-45-6	Chlorodifluoromethane	ND		0.80	0.20
67-66-3	Chloroform	ND		0.30	0.10
74-87-3	Chloromethane	ND		0.80	0.40
95-49-8	2-Chlorotoluene	ND		0.80	0.20
110-82-7	Cyclohexane	ND		0.50	0.20
124-48-1	Dibromochloromethane	ND		0.40	0.10
106-93-4	1,2-Dibromoethane (EDB)	ND		0.80	0.20
74-95-3	Dibromomethane	ND		0.40	0.20
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroetha ne	ND		0.40	0.15
95-50-1	1,2-Dichlorobenzene	ND		0.40	0.15
541-73-1	1,3-Dichlorobenzene	ND		0.40	0.15
106-46-7	1,4-Dichlorobenzene	ND		0.40	0.15
75-71-8	Dichlorodifluoromethane	ND		0.40	0.15
75-34-3	1,1-Dichloroethane	ND		0.30	0.15
107-06-2	1,2-Dichloroethane	ND		0.80	0.20

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Costa Mesa Job No.: 340-5599-1

SDG No.:

Client Sample ID: 34000224 Lab Sample ID: 340-5599-1

Matrix: Air Lab File ID: MB12323.d

Analysis Method: TO-15 Date Collected: 12/29/2012 00:00

Sample wt/vol: 250(mL) Date Analyzed: 01/01/2013 05:52

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: See SOP ID:

% Moisture: Level: (low/med) Low

Analysis Batch No.: 3674 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-35-4	1,1-Dichloroethene	ND		0.80	0.20
156-59-2	cis-1,2-Dichloroethene	ND		0.40	0.20
156-60-5	trans-1,2-Dichloroethene	ND		0.40	0.20
78-87-5	1,2-Dichloropropane	ND		0.40	0.15
10061-01-5	cis-1,3-Dichloropropene	ND		0.40	0.15
10061-02-6	trans-1,3-Dichloropropene	ND		0.40	0.15
123-91-1	1,4-Dioxane	ND		0.80	0.40
141-78-6	Ethyl acetate	ND		0.30	0.15
100-41-4	Ethylbenzene	ND		0.40	0.15
622-96-8	4-Ethyltoluene	ND		0.40	0.15
142-82-5	n-Heptane	ND		0.80	0.20
87-68-3	Hexachlorobutadiene	ND		0.80	0.20
110-54-3	n-Hexane	ND		0.80	0.20
591-78-6	2-Hexanone	ND		0.80	0.20
98-82-8	Isopropylbenzene	ND		0.80	0.20
99-87-6	4-Isopropyltoluene	ND		0.80	0.20
1634-04-4	Methyl-t-Butyl Ether (MTBE)	ND		0.80	0.20
80-62-6	Methyl methacrylate	ND		0.80	0.40
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.40	0.15
75-09-2	Methylene chloride	ND		0.40	0.20
98-83-9	alpha-Methylstyrene	ND		0.40	0.15
91-20-3	Naphthalene	ND		2.0	0.70
111-65-9	n-Octane	ND		0.40	0.15
109-66-0	n-Pentane	ND		1.0	0.40
115-07-1	Propylene	ND		0.80	0.40
103-65-1	n-Propylbenzene	ND		0.80	0.20
100-42-5	Styrene	ND		0.40	0.15
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.40	0.10
127-18-4	Tetrachloroethene	ND		0.40	0.15
109-99-9	Tetrahydrofuran	ND		2.0	0.40
108-88-3	Toluene	ND		0.40	0.15
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.40	0.20
120-82-1	1,2,4-Trichlorobenzene	ND		2.5	0.70
71-55-6	1,1,1-Trichloroethane	ND		0.30	0.15
79-00-5	1,1,2-Trichloroethane	ND		0.40	0.15

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Costa Mesa Job No.: 340-5599-1

SDG No.:

Client Sample ID: 34000224 Lab Sample ID: 340-5599-1

Matrix: Air Lab File ID: MB12323.d

Analysis Method: TO-15 Date Collected: 12/29/2012 00:00

Sample wt/vol: 250(mL) Date Analyzed: 01/01/2013 05:52

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: See SOP ID:

% Moisture: Level: (low/med) Low

Analysis Batch No.: 3674 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-01-6	Trichloroethene	ND		0.40	0.15
75-69-4	Trichlorofluoromethane	ND		0.40	0.15
96-18-4	1,2,3-Trichloropropane	ND		0.40	0.20
95-63-6	1,2,4-Trimethylbenzene	ND		0.80	0.20
108-67-8	1,3,5-Trimethylbenzene	ND		0.40	0.15
540-84-1	2,2,4-Trimethylpentane	ND		0.50	0.20
108-05-4	Vinyl acetate	ND		0.80	0.20
593-60-2	Vinyl bromide	ND		0.80	0.40
75-01-4	Vinyl chloride	ND		0.40	0.15
179601-23-1	m,p-Xylene	ND		0.80	0.20
95-47-6	o-Xylene	ND		0.40	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	103		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	94		70-130
2037-26-5	Toluene-d8 (Surr)	98		70-130

TestAmerica Costa Mesa
Target Compound Quantitation Report

Data File:	\\Lachrom\ChromData\MSG\20121230-2529.b\MB12323.d		
Lims ID:	340-5599-A-1	Client ID:	34000224
Inject. Date:	01-Jan-2013 05:52:30	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	340-5599-A-1		
Misc. Info.:	340-0002529-033		
Operator:	DLK	Instrument ID:	MSG
Purge Vol:	250.000 mL	ALS Bottle#:	1
Lims Batch ID:	3674	Lims Sample ID:	33
Detector:	MS SCAN		
Method:	\\Lachrom\ChromData\MSG\20121230-2529.b\TO-15_MSG.m		
Method Label:	TO-15/TO-14A		
Last Update:	02-Jan-2013 12:46:38	Calib Date:	26-Dec-2012 12:36:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\Lachrom\ChromData\MSG\20121226-2503.b\IC12268.d		
Limit Group:	TO-15-TO-15_MOD_ICAL		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:	RTX-Volatiles	Column Dia:	0.32 mm
Process Host:	XAWRK031		
First Level Reviewer: kammererd		Date:	02-Jan-2013 12:46:38

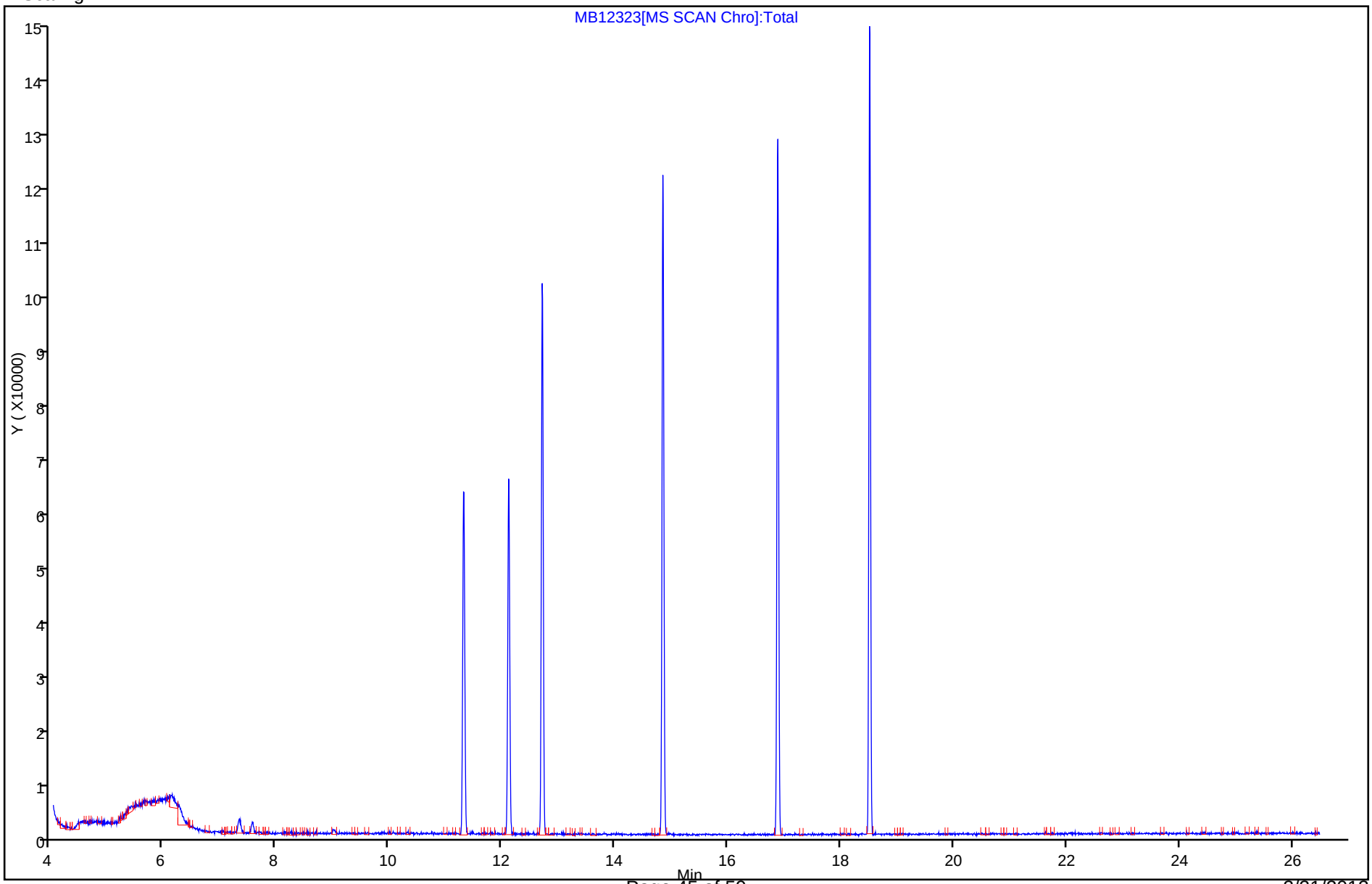
Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ppb v/v	Flags
* 67 Chlorobromomethane (IS)	49	11.311	11.317	-0.006	86	50306	4.00	
$ 74 1,2-Dichloroethane-d4 (Surr)	65	12.111	12.111	0.0	0	43155	3.75	
* 80 1,4-Difluorobenzene	114	12.712	12.712	0.0	97	78022	4.00	
$ 90 Toluene-d8 (Surr)	98	14.845	14.852	-0.007	94	82148	3.92	
* 99 Chlorobenzene-d5 (IS)	117	16.885	16.886	-0.001	96	66225	4.00	
$ 111 4-Bromofluorobenzene (Surr)	95	18.516	18.516	0.0	73	57422	4.11	

Report Date: 02-Jan-2013 12:46:38 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Costa Mesa

Data File:	\\Lachrom\ChromData\MSG\20121230-2529.b\MB12323.d		
Injection Date:	01-Jan-2013 05:52:30	Limit Group:	TO-15-TO-15_MOD_ICAL
Client ID:	34000224	Instrument ID:	MSG
Lims Batch ID:	3674	Lims Sample ID:	33
Operator ID:	DLK	Purge Vol:	250.000 mL
Column Type:	RTX-Volatiles	Column Dia:	0.32 mm

Y Scaling:



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Costa Mesa Job No.: 340-5774-1

SDG No.:

Client Sample ID: 34000081 Lab Sample ID: 340-5774-1

Matrix: Air Lab File ID: MB01166.D

Analysis Method: TO-15 SIM Date Collected: 01/15/2013 00:00

Sample wt/vol: 500(mL) Date Analyzed: 01/16/2013 17:09

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: See SOP ID:

% Moisture: Level: (low/med) Low

Analysis Batch No.: 3795 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	ND		0.020	0.0080
100-44-7	Benzyl chloride	ND	*	0.10	0.050
75-27-4	Bromodichloromethane	ND		0.012	0.0050
56-23-5	Carbon tetrachloride	ND	*	0.010	0.0050
108-90-7	Chlorobenzene	ND		0.020	0.0080
75-00-3	Chloroethane	ND		0.045	0.020
67-66-3	Chloroform	ND		0.020	0.0050
74-87-3	Chloromethane	ND		0.20	0.080
124-48-1	Dibromochloromethane	ND		0.010	0.0050
106-93-4	1,2-Dibromoethane (EDB)	ND		0.010	0.0050
95-50-1	1,2-Dichlorobenzene	ND		0.050	0.020
541-73-1	1,3-Dichlorobenzene	ND		0.10	0.020
106-46-7	1,4-Dichlorobenzene	ND		0.10	0.020
75-71-8	Dichlorodifluoromethane	ND		0.010	0.0050
75-34-3	1,1-Dichloroethane	ND		0.020	0.0050
107-06-2	1,2-Dichloroethane	ND		0.020	0.0050
75-35-4	1,1-Dichloroethene	ND		0.020	0.0080
156-59-2	cis-1,2-Dichloroethene	ND		0.020	0.0080
156-60-5	trans-1,2-Dichloroethene	ND		0.020	0.0080
78-87-5	1,2-Dichloropropane	ND		0.040	0.020
10061-01-5	cis-1,3-Dichloropropene	ND		0.020	0.0080
10061-02-6	trans-1,3-Dichloropropene	ND		0.020	0.0080
123-91-1	1,4-Dioxane	ND	*	0.10	0.050
100-41-4	Ethylbenzene	ND		0.020	0.0080
87-68-3	Hexachlorobutadiene	ND	*	0.020	0.010
1634-04-4	Methyl-t-Butyl Ether (MTBE)	ND		0.025	0.012
75-09-2	Methylene Chloride	ND	*	0.20	0.050
91-20-3	Naphthalene	ND		0.013	0.010
100-42-5	Styrene	ND		0.030	0.010
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.020	0.010
127-18-4	Tetrachloroethene	ND		0.020	0.0080
108-88-3	Toluene	ND		0.020	0.0080
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.030	0.0080
120-82-1	1,2,4-Trichlorobenzene	ND		0.050	0.025
71-55-6	1,1,1-Trichloroethane	ND		0.020	0.0080

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Costa Mesa Job No.: 340-5774-1

SDG No.:

Client Sample ID: 34000081 Lab Sample ID: 340-5774-1

Matrix: Air Lab File ID: MB01166.D

Analysis Method: TO-15 SIM Date Collected: 01/15/2013 00:00

Sample wt/vol: 500(mL) Date Analyzed: 01/16/2013 17:09

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: See SOP ID:

% Moisture: Level: (low/med) Low

Analysis Batch No.: 3795 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-00-5	1,1,2-Trichloroethane	ND		0.050	0.020
79-01-6	Trichloroethene	ND		0.020	0.0050
75-69-4	Trichlorofluoromethane	ND		0.045	0.010
75-01-4	Vinyl chloride	ND		0.020	0.0050
179601-23-1	m,p-Xylene	ND		0.040	0.016
95-47-6	o-Xylene	ND		0.020	0.0080

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	100		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	95		70-130
2037-26-5	Toluene-d8 (Surr)	88		70-130

TestAmerica Costa Mesa
Target Compound Quantitation Report

Data File:	\\Lachrom\ChromData\MSD\20130116-2608.b\MB01166.D		
Lims ID:	340-5774-A-1	Client ID:	34000081
Inject. Date:	16-Jan-2013 17:09:30	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	340-5774-A-1		
Misc. Info.:	340-0002608-010		
Operator:	LY	Instrument ID:	MSD
Purge Vol:	500.000 mL	ALS Bottle#:	14
Lims Batch ID:	3795	Lims Sample ID:	10
Detector:	MS SCAN		
Method:	\\Lachrom\ChromData\MSD\20130116-2608.b\TO15_MSD.m		
Method Label:	TO-15 SIM		
Last Update:	17-Jan-2013 09:42:55	Calib Date:	09-Dec-2012 16:10:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\Lachrom\ChromData\MSD\20121209-2400.b\IC1209A.D		
Limit Group:	TO-15_SIM_ICAL		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:	Rtx-Volatiles	Column Dia:	0.32 mm
Process Host:	XAWRK033		
First Level Reviewer: yabutl		Date:	17-Jan-2013 09:42:55

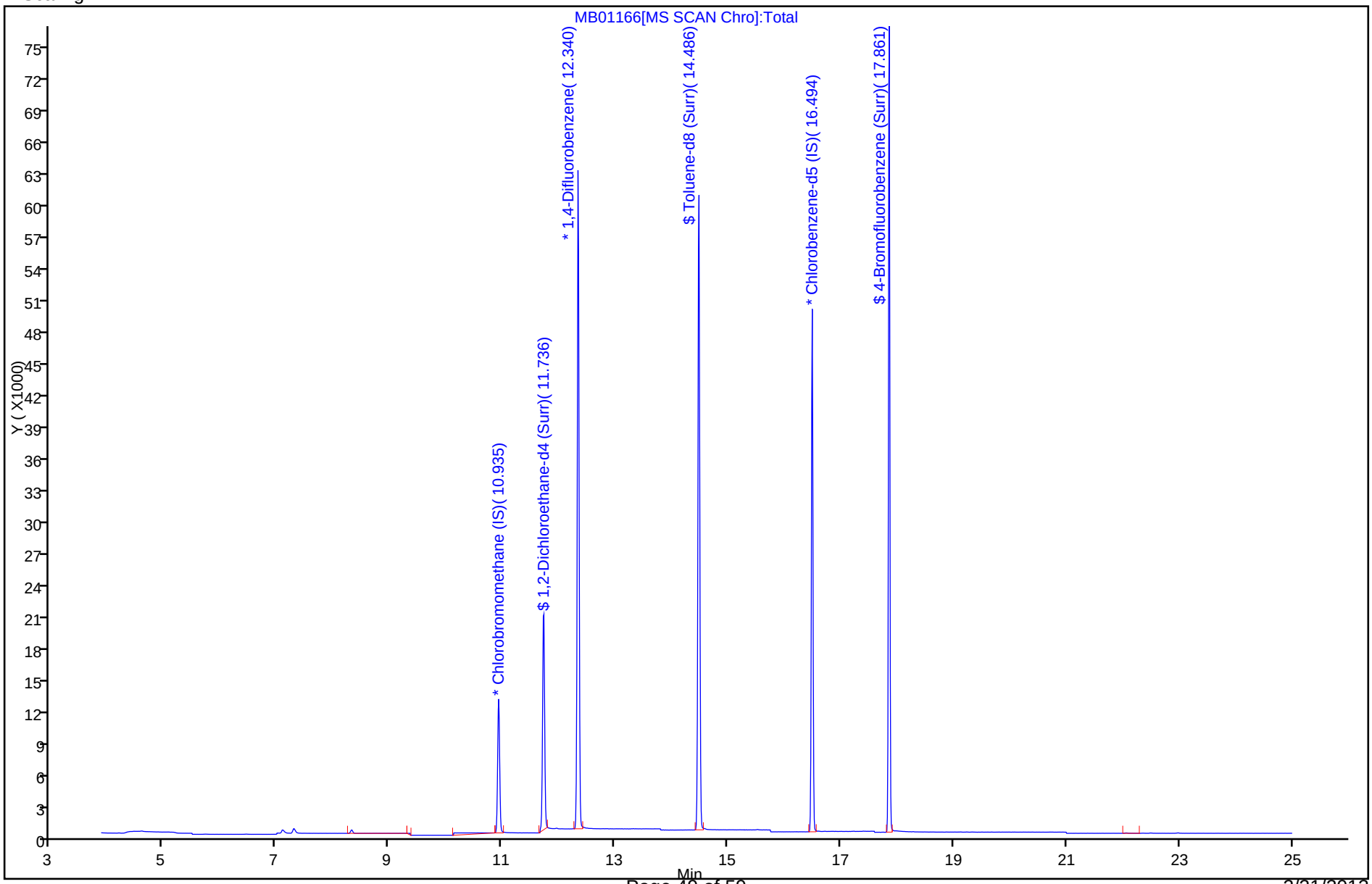
Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ppb v/v	Flags
* 15 Chlorobromomethane (IS)	130	10.935	10.927	0.008	100	32209	2.00	
$ 17 1,2-Dichloroethane-d4 (Surr)	65	11.736	11.725	0.011	100	47035	1.90	
* 21 1,4-Difluorobenzene	114	12.340	12.340	0.0	100	95553	2.00	
$ 27 Toluene-d8 (Surr)	98	14.486	14.476	0.010	99	74120	1.77	
* 34 Chlorobenzene-d5 (IS)	117	16.494	16.494	0.0	100	91704	2.00	
$ 41 4-Bromofluorobenzene (Surr)	95	17.852	17.852	0.0	98	66370	2.00	

Report Date: 17-Jan-2013 09:42:55 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Costa Mesa

Data File:	\\Lachrom\ChromData\MSD\20130116-2608.b\MB01166.D		
Injection Date:	16-Jan-2013 17:09:30	Limit Group:	TO-15_SIM_ICAL
Client ID:	34000081	Instrument ID:	MSD
Lims Batch ID:	3795	Lims Sample ID:	10
Operator ID:	LY	Purge Vol:	500.000 mL
Column Type:	Rtx-Volatiles	Column Dia:	0.32 mm

Y Scaling:



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Costa Mesa Job No.: 340-5774-1

SDG No.:

Client Sample ID: 34000081 Lab Sample ID: 340-5774-1

Matrix: Air Lab File ID: MB01173.D

Analysis Method: TO-15 Date Collected: 01/15/2013 00:00

Sample wt/vol: 250(mL) Date Analyzed: 01/17/2013 16:45

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: See SOP ID:

% Moisture: Level: (low/med) Low

Analysis Batch No.: 3806 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	ND		1.2	0.60
107-02-8	Acrolein	ND		2.5	0.70
107-13-1	Acrylonitrile	ND		2.0	0.40
107-05-1	Allyl chloride	ND		0.80	0.40
71-43-2	Benzene	ND		0.40	0.20
100-44-7	Benzyl chloride	ND		0.80	0.20
75-27-4	Bromodichloromethane	ND		0.30	0.15
75-25-2	Bromoform	ND		0.80	0.20
74-83-9	Bromomethane	ND		0.80	0.20
106-99-0	1,3-Butadiene	ND		0.80	0.20
106-97-8	n-Butane	ND		0.50	0.20
78-93-3	2-Butanone (MEK)	ND		0.80	0.40
75-65-0	tert-Butyl alcohol (TBA)	ND		5.0	1.5
104-51-8	n-Butylbenzene	ND		0.80	0.20
135-98-8	sec-Butylbenzene	ND		0.50	0.20
98-06-6	tert-Butylbenzene	ND		0.80	0.20
75-15-0	Carbon disulfide	ND		0.80	0.20
56-23-5	Carbon tetrachloride	ND		0.80	0.20
75-00-3	Chloroethane	ND	*	1.5	0.70
108-90-7	Chlorobenzene	ND		0.30	0.10
75-45-6	Chlorodifluoromethane	ND		0.80	0.20
67-66-3	Chloroform	ND		0.30	0.10
74-87-3	Chloromethane	ND		0.80	0.40
95-49-8	2-Chlorotoluene	ND		0.80	0.20
110-82-7	Cyclohexane	ND		0.50	0.20
124-48-1	Dibromochloromethane	ND		0.40	0.10
106-93-4	1,2-Dibromoethane (EDB)	ND		0.80	0.20
74-95-3	Dibromomethane	ND		0.40	0.20
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.40	0.15
95-50-1	1,2-Dichlorobenzene	ND		0.40	0.15
541-73-1	1,3-Dichlorobenzene	ND		0.40	0.15
106-46-7	1,4-Dichlorobenzene	ND		0.40	0.15
75-71-8	Dichlorodifluoromethane	ND		0.40	0.15
75-34-3	1,1-Dichloroethane	ND		0.30	0.15
107-06-2	1,2-Dichloroethane	ND		0.80	0.20

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Costa Mesa Job No.: 340-5774-1

SDG No.:

Client Sample ID: 34000081 Lab Sample ID: 340-5774-1

Matrix: Air Lab File ID: MB01173.D

Analysis Method: TO-15 Date Collected: 01/15/2013 00:00

Sample wt/vol: 250(mL) Date Analyzed: 01/17/2013 16:45

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: See SOP ID:

% Moisture: Level: (low/med) Low

Analysis Batch No.: 3806 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-35-4	1,1-Dichloroethene	ND		0.80	0.20
156-59-2	cis-1,2-Dichloroethene	ND		0.40	0.20
156-60-5	trans-1,2-Dichloroethene	ND		0.40	0.20
78-87-5	1,2-Dichloropropane	ND		0.40	0.15
10061-01-5	cis-1,3-Dichloropropene	ND		0.40	0.15
10061-02-6	trans-1,3-Dichloropropene	ND		0.40	0.15
123-91-1	1,4-Dioxane	ND		0.80	0.40
141-78-6	Ethyl acetate	ND		0.30	0.15
100-41-4	Ethylbenzene	ND		0.40	0.15
622-96-8	4-Ethyltoluene	ND		0.40	0.15
142-82-5	n-Heptane	ND		0.80	0.20
87-68-3	Hexachlorobutadiene	ND		0.80	0.20
110-54-3	n-Hexane	ND		0.80	0.20
591-78-6	2-Hexanone	ND		0.80	0.20
98-82-8	Isopropylbenzene	ND		0.80	0.20
99-87-6	4-Isopropyltoluene	ND		0.80	0.20
1634-04-4	Methyl-t-Butyl Ether (MTBE)	ND		0.80	0.20
80-62-6	Methyl methacrylate	ND		0.80	0.40
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.40	0.15
75-09-2	Methylene chloride	ND		0.40	0.20
98-83-9	alpha-Methylstyrene	ND		0.40	0.15
91-20-3	Naphthalene	ND		2.0	0.70
111-65-9	n-Octane	ND		0.40	0.15
109-66-0	n-Pentane	ND		1.0	0.40
115-07-1	Propylene	ND		0.80	0.40
103-65-1	n-Propylbenzene	ND		0.80	0.20
100-42-5	Styrene	ND		0.40	0.15
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.40	0.10
127-18-4	Tetrachloroethene	ND		0.40	0.15
109-99-9	Tetrahydrofuran	ND		2.0	0.40
108-88-3	Toluene	ND		0.40	0.15
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.40	0.20
120-82-1	1,2,4-Trichlorobenzene	ND		2.5	0.70
71-55-6	1,1,1-Trichloroethane	ND		0.30	0.15
79-00-5	1,1,2-Trichloroethane	ND		0.40	0.15

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Costa Mesa Job No.: 340-5774-1

SDG No.:

Client Sample ID: 34000081 Lab Sample ID: 340-5774-1

Matrix: Air Lab File ID: MB01173.D

Analysis Method: TO-15 Date Collected: 01/15/2013 00:00

Sample wt/vol: 250(mL) Date Analyzed: 01/17/2013 16:45

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: See SOP ID:

% Moisture: Level: (low/med) Low

Analysis Batch No.: 3806 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-01-6	Trichloroethene	ND		0.40	0.15
75-69-4	Trichlorofluoromethane	ND		0.40	0.15
96-18-4	1,2,3-Trichloropropane	ND		0.40	0.20
95-63-6	1,2,4-Trimethylbenzene	ND		0.80	0.20
108-67-8	1,3,5-Trimethylbenzene	ND		0.40	0.15
540-84-1	2,2,4-Trimethylpentane	ND		0.50	0.20
108-05-4	Vinyl acetate	ND		0.80	0.20
593-60-2	Vinyl bromide	ND		0.80	0.40
75-01-4	Vinyl chloride	ND		0.40	0.15
179601-23-1	m,p-Xylene	ND		0.80	0.20
95-47-6	o-Xylene	ND		0.40	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	90		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	106		70-130
2037-26-5	Toluene-d8 (Surr)	95		70-130

TestAmerica Costa Mesa
Target Compound Quantitation Report

Data File:	\\Lachrom\chromdata\MSC\20130117-2615.b\MB01173.D		
Lims ID:	340-5774-A-1	Client ID:	34000081
Inject. Date:	17-Jan-2013 16:45:30	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	340-5774-A-1		
Misc. Info.:	340-0002615-007		
Operator:	DLK	Instrument ID:	MSC
Purge Vol:	250.000 mL	ALS Bottle#:	14
Lims Batch ID:	3806	Lims Sample ID:	7
Detector:	MS SCAN		
Method:	\\Lachrom\chromdata\MSC\20130117-2615.b\TO-15_MSC.m		
Method Label:	TO-15/TO-14A		
Last Update:	17-Jan-2013 17:27:33	Calib Date:	16-Jan-2013 17:24:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\Lachrom\chromdata\MSC\20130116-2609.b\IC01169.D		
Limit Group:	TO-15-TO-15_MOD_ICAL		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:	RTX-Volatiles	Column Dia:	0.32 mm
Process Host:	XAWRK026		
First Level Reviewer: kammererd		Date:	17-Jan-2013 17:27:33

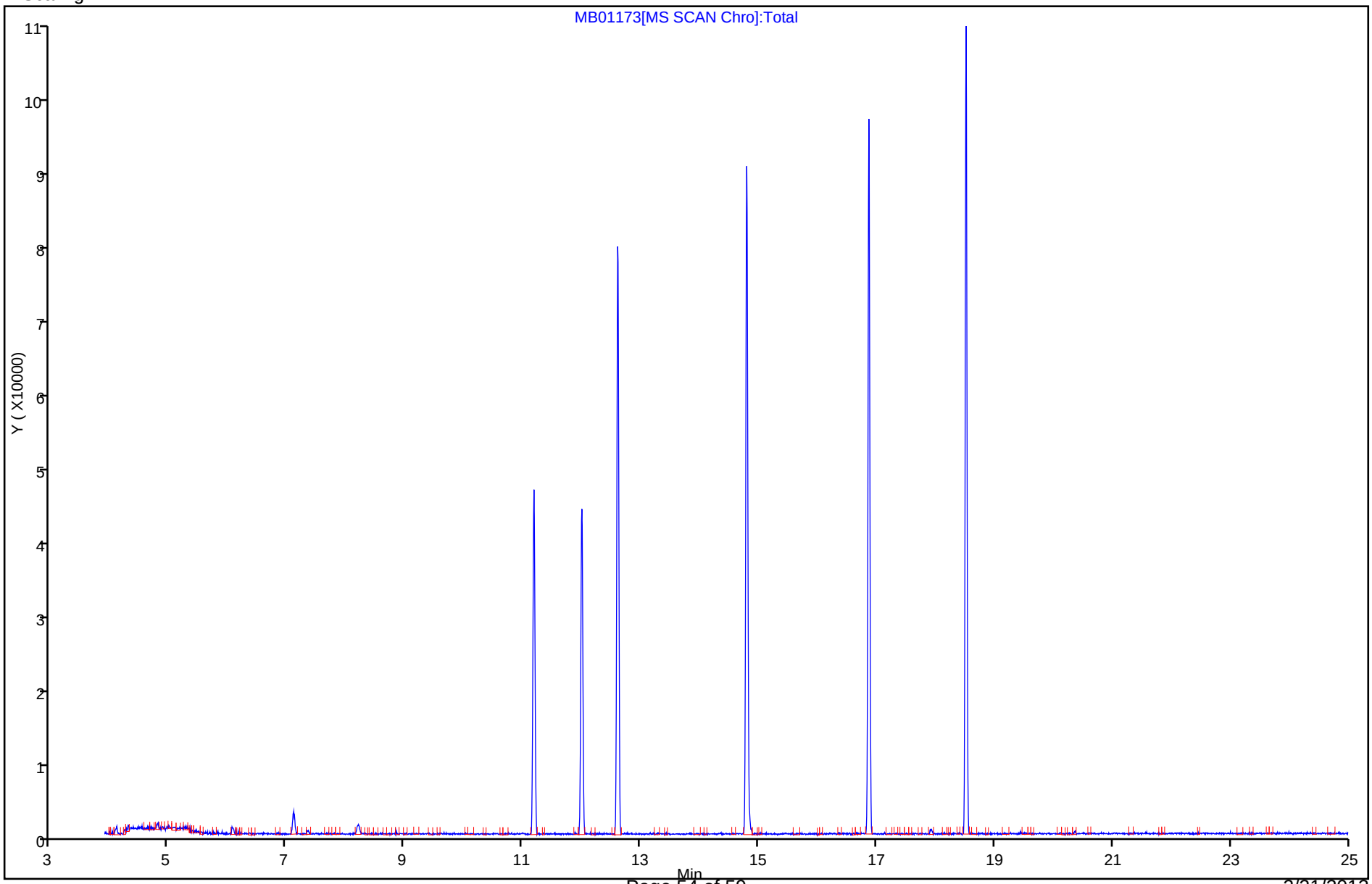
Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ppb v/v	Flags
* 64 Chlorobromomethane (IS)	49	11.188	11.188	0.0	92	27706	4.00	
$ 69 1,2-Dichloroethane-d4 (Surr)	65	12.000	12.000	0.0	94	29850	4.23	
* 77 1,4-Difluorobenzene	114	12.614	12.614	0.0	94	73646	4.00	
$ 88 Toluene-d8 (Surr)	98	14.797	14.803	-0.006	97	69310	3.80	
* 98 Chlorobenzene-d5 (IS)	117	16.868	16.874	-0.006	84	63028	4.00	
$ 111 4-Bromofluorobenzene (Surr)	95	18.517	18.517	0.0	86	44000	3.61	

Report Date: 17-Jan-2013 17:27:33 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Costa Mesa

Data File:	\\Lachrom\chromdata\MSC\20130117-2615.b\MB01173.D		
Injection Date:	17-Jan-2013 16:45:30	Limit Group:	TO-15-TO-15_MOD_ICAL
Client ID:	34000081	Instrument ID:	MSC
Lims Batch ID:	3806	Lims Sample ID:	7
Operator ID:	DLK	Purge Vol:	250.000 mL
Column Type:	RTX-Volatiles	Column Dia:	0.32 mm

Y Scaling:



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Costa Mesa Job No.: 340-5866-1

SDG No.:

Client Sample ID: 34001662 Lab Sample ID: 340-5866-1

Matrix: Air Lab File ID: MB01222.d

Analysis Method: TO-15 Date Collected: 01/21/2013 00:00

Sample wt/vol: 250(mL) Date Analyzed: 01/22/2013 12:33

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: See SOP ID:

% Moisture: Level: (low/med) Low

Analysis Batch No.: 3836 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	ND		1.2	0.60
107-02-8	Acrolein	ND		2.5	0.70
107-13-1	Acrylonitrile	ND		2.0	0.40
107-05-1	Allyl chloride	ND		0.80	0.40
71-43-2	Benzene	ND		0.40	0.20
100-44-7	Benzyl chloride	ND		0.80	0.20
75-27-4	Bromodichloromethane	ND		0.30	0.15
75-25-2	Bromoform	ND		0.80	0.20
74-83-9	Bromomethane	ND		0.80	0.20
106-99-0	1,3-Butadiene	ND		0.80	0.20
106-97-8	n-Butane	ND		0.50	0.20
78-93-3	2-Butanone (MEK)	ND		0.80	0.40
75-65-0	tert-Butyl alcohol (TBA)	ND		5.0	1.5
104-51-8	n-Butylbenzene	ND		0.80	0.20
135-98-8	sec-Butylbenzene	ND		0.50	0.20
98-06-6	tert-Butylbenzene	ND		0.80	0.20
75-15-0	Carbon disulfide	ND		0.80	0.20
56-23-5	Carbon tetrachloride	ND		0.80	0.20
75-00-3	Chloroethane	ND		1.5	0.70
108-90-7	Chlorobenzene	ND		0.30	0.10
75-45-6	Chlorodifluoromethane	ND		0.80	0.20
67-66-3	Chloroform	ND		0.30	0.10
74-87-3	Chloromethane	ND		0.80	0.40
95-49-8	2-Chlorotoluene	ND		0.80	0.20
110-82-7	Cyclohexane	ND		0.50	0.20
124-48-1	Dibromochloromethane	ND		0.40	0.10
106-93-4	1,2-Dibromoethane (EDB)	ND		0.80	0.20
74-95-3	Dibromomethane	ND		0.40	0.20
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroetha ne	ND		0.40	0.15
95-50-1	1,2-Dichlorobenzene	ND		0.40	0.15
541-73-1	1,3-Dichlorobenzene	ND		0.40	0.15
106-46-7	1,4-Dichlorobenzene	ND		0.40	0.15
75-71-8	Dichlorodifluoromethane	ND		0.40	0.15
75-34-3	1,1-Dichloroethane	ND		0.30	0.15
107-06-2	1,2-Dichloroethane	ND		0.80	0.20

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Costa Mesa Job No.: 340-5866-1

SDG No.:

Client Sample ID: 34001662 Lab Sample ID: 340-5866-1

Matrix: Air Lab File ID: MB01222.d

Analysis Method: TO-15 Date Collected: 01/21/2013 00:00

Sample wt/vol: 250(mL) Date Analyzed: 01/22/2013 12:33

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: See SOP ID:

% Moisture: Level: (low/med) Low

Analysis Batch No.: 3836 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-35-4	1,1-Dichloroethene	ND		0.80	0.20
156-59-2	cis-1,2-Dichloroethene	ND		0.40	0.20
156-60-5	trans-1,2-Dichloroethene	ND		0.40	0.20
78-87-5	1,2-Dichloropropane	ND		0.40	0.15
10061-01-5	cis-1,3-Dichloropropene	ND		0.40	0.15
10061-02-6	trans-1,3-Dichloropropene	ND		0.40	0.15
123-91-1	1,4-Dioxane	ND		0.80	0.40
141-78-6	Ethyl acetate	ND		0.30	0.15
100-41-4	Ethylbenzene	ND		0.40	0.15
622-96-8	4-Ethyltoluene	ND		0.40	0.15
142-82-5	n-Heptane	ND		0.80	0.20
87-68-3	Hexachlorobutadiene	ND		0.80	0.20
110-54-3	n-Hexane	ND		0.80	0.20
591-78-6	2-Hexanone	ND		0.80	0.20
98-82-8	Isopropylbenzene	ND		0.80	0.20
99-87-6	4-Isopropyltoluene	ND		0.80	0.20
1634-04-4	Methyl-t-Butyl Ether (MTBE)	ND		0.80	0.20
80-62-6	Methyl methacrylate	ND		0.80	0.40
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.40	0.15
75-09-2	Methylene chloride	ND		0.40	0.20
98-83-9	alpha-Methylstyrene	ND		0.40	0.15
91-20-3	Naphthalene	ND	*	2.0	0.70
111-65-9	n-Octane	ND		0.40	0.15
109-66-0	n-Pentane	ND		1.0	0.40
115-07-1	Propylene	ND		0.80	0.40
103-65-1	n-Propylbenzene	ND		0.80	0.20
100-42-5	Styrene	ND		0.40	0.15
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.40	0.10
127-18-4	Tetrachloroethene	ND		0.40	0.15
109-99-9	Tetrahydrofuran	ND		2.0	0.40
108-88-3	Toluene	ND		0.40	0.15
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.40	0.20
120-82-1	1,2,4-Trichlorobenzene	ND		2.5	0.70
71-55-6	1,1,1-Trichloroethane	ND		0.30	0.15
79-00-5	1,1,2-Trichloroethane	ND		0.40	0.15

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Costa Mesa Job No.: 340-5866-1

SDG No.:

Client Sample ID: 34001662 Lab Sample ID: 340-5866-1

Matrix: Air Lab File ID: MB01222.d

Analysis Method: TO-15 Date Collected: 01/21/2013 00:00

Sample wt/vol: 250(mL) Date Analyzed: 01/22/2013 12:33

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: See SOP ID:

% Moisture: Level: (low/med) Low

Analysis Batch No.: 3836 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-01-6	Trichloroethene	ND		0.40	0.15
75-69-4	Trichlorofluoromethane	ND		0.40	0.15
96-18-4	1,2,3-Trichloropropane	ND		0.40	0.20
95-63-6	1,2,4-Trimethylbenzene	ND		0.80	0.20
108-67-8	1,3,5-Trimethylbenzene	ND		0.40	0.15
540-84-1	2,2,4-Trimethylpentane	ND		0.50	0.20
108-05-4	Vinyl acetate	ND		0.80	0.20
593-60-2	Vinyl bromide	ND		0.80	0.40
75-01-4	Vinyl chloride	ND		0.40	0.15
179601-23-1	m,p-Xylene	ND		0.80	0.20
95-47-6	o-Xylene	ND		0.40	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	97		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	97		70-130
2037-26-5	Toluene-d8 (Surr)	97		70-130

TestAmerica Costa Mesa
Target Compound Quantitation Report

Data File:	\\Lachrom\ChromData\MSG\20130122-2633.b\MB01222.d		
Lims ID:	340-5866-A-1	Client ID:	34001662
Inject. Date:	22-Jan-2013 12:33:30	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	340-5866-A-1		
Misc. Info.:	340-0002633-006		
Operator:	DLK	Instrument ID:	MSG
Purge Vol:	250.000 mL	ALS Bottle#:	14
Lims Batch ID:	3836	Lims Sample ID:	6
Detector:	MS SCAN		
Method:	\\Lachrom\ChromData\MSG\20130122-2633.b\TO-15_MSG.m		
Method Label:	TO-15/TO-14A		
Last Update:	22-Jan-2013 13:25:48	Calib Date:	26-Dec-2012 12:36:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\Lachrom\ChromData\MSG\20121226-2503.b\IC12268.d		
Limit Group:	TO-15-TO-15_MOD_ICAL		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:	RTX-Volatiles	Column Dia:	0.32 mm
Process Host:	XAWRK017		

First Level Reviewer: kammererd Date: 22-Jan-2013 13:25:48

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ppb v/v	Flags
* 67 Chlorobromomethane (IS)	49	11.360	11.367	-0.007	88	45911	4.00	
$ 74 1,2-Dichloroethane-d4 (Surr)	65	12.160	12.160	0.0	0	40814	3.88	
* 80 1,4-Difluorobenzene	114	12.756	12.756	0.0	97	68943	4.00	
$ 90 Toluene-d8 (Surr)	98	14.889	14.895	-0.006	94	72005	3.88	
* 99 Chlorobenzene-d5 (IS)	117	16.929	16.929	0.0	95	59094	4.00	s
$ 111 4-Bromofluorobenzene (Surr)	95	18.553	18.560	-0.007	75	48300	3.88	

QC Flag Legend

Processing Flags
s - Failed ISTD Recovery Test

Report Date: 22-Jan-2013 13:25:48 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Costa Mesa

Data File:	\\Lachrom\ChromData\MSG\20130122-2633.b\MB01222.d		
Injection Date:	22-Jan-2013 12:33:30	Limit Group:	TO-15-TO-15_MOD_ICAL
Client ID:	34001662	Instrument ID:	MSG
Lims Batch ID:	3836	Lims Sample ID:	6
Operator ID:	DLK	Purge Vol:	250.000 mL
Column Type:	RTX-Volatiles	Column Dia:	0.32 mm

Y Scaling: