



March 29, 2014

VIA ELECTRONIC MAIL

Mr. Daniel Romano
RCV-1, LLC.
30629 Palos Verdes Drive East
Rancho Palos Verdes, CA 90275

Subject: Limited Investigation Summary
 Former Del Rey Cleaners
 310 Culver Boulevard
 Playa Del Rey, CA 90293-7704

Dear Mr. Romano:

Bowyer Environmental Consulting, Inc. (BEC) has prepared this summary of a recent limited investigation (Summary Report) at the request of RCV-1, LLC (RCV). The work presented in this Summary Report was conducted at the former Del Rey Cleaners facility (Site). The Site is located at 310 Culver Boulevard in Playa Del Rey, California, as shown on Figure 1.

The Report summarizes a soil and soil vapor investigation that was performed at the Site at your request. It is our understanding that RCV is considering the purchase of the Site. However, in advance of decision making, RCV desired to obtain a better understanding of the current Site conditions, and the potential for those conditions to represent a potential indoor air risk to future users and/or neighbors.

SITE BACKGROUND

The 0.24 acre property is currently vacant. A single story structure occupies approximately one half of the Site, as shown on Figure 2.

The Site was utilized for dry cleaning purposes for approximately 35 years (between 1962 and 2007). Prior to that, the property was reportedly (DCI Services, May 3, 2000) utilized as an auto repair garage from between 1935 and 1962.

Based on investigations conducted in 2000 (DCI Services, May 9, 2000), 2002 (Targhee, Inc., February 20, 2002) and 2011 (CSC Targhee, Inc., March 3, 2011), tetrachloroethene (PCE), a compounds utilized in the dry cleaning process, has been observed at elevated concentrations in soil and groundwater beneath the site. In 2012, the Los Angeles Area Regional Water Quality Control Board (RWQCB) issued an Order pursuant to California Water Code Section 13267 (Order). The Order, which was issued to the Executor, Estate of Barry Moschel, required the development of a workplan to complete the delineation of impacts to soil, soil vapor and groundwater related to releases that are believed to have occurred from the former dry cleaning operations.

SCOPE OF WORK

There were two concurrent tasks conducted as part of this limited investigation (soil vapor and soil matrix sampling). The work was conducted between March 17th and March 21st 2014. The methods employed during these investigations are summarized in the following subsections.

Soil Vapor Survey

Soil Gas Screening Locations

A total of up to twenty soil gas probes were installed to depths of approximately 5.0 feet below surface grade (bgs). One of these points (V-7) was installed at shallower depth (approximately 1.5 feet bgs) due to shallow high moisture conditions observed in this area. The approximate location of the soil vapor probes is shown on Figure 4.

Drilling, Sampling and Analyses

Soil vapor probes were installed, sampled and analyzed in accordance with the Department of Toxic Substances Control and California Regional Water Quality Board Active Soil Gas Investigations (2012) Guidance. Prior to drilling at locations on pavement or a concrete, a surface penetration was made using a wet core drill, or equivalent. In turf areas the vegetation was cleared away with a shovel or similar tool. Drilling was performed using direct push geoprobe methods. The vapor points were installed and left in place for a minimum of 48 hours prior to the collection of vapor samples.

Vapor purge tests were performed on the initial samples (V-10) to determine optimum recovery rates. Based on these tests it was determined that the optimum pre-sample purge consists of the removal of three purge volumes. In addition, leak tests were conducted and a duplicate sample was collected from V-14 as a quality assurance/quality control measure.

Each of the collected vapor samples were analyzed for volatile organic compounds (VOCs) via USEPA Method 8260B. Copies of the laboratory reports are provided in Attachment A.

Soil Matrix Sampling

Companion soil samples were collected from each soil vapor location. Head space readings were collected and recorded during the drilling program.

The samples collected from each of the probe locations were subsampled using an Encore sampling device. The soil samples and subsamples were stored in a chilled container pending transport, under chain-of-custody procedures, to ATL Laboratories, Inc. (ATL), a fixed base analytical laboratory. Copies of the laboratory reports are provided in Attachment A.

Support Activities

Site Restoration

Vapor sampling will be removed following the completion of sample collection. The tubing will be removed by hand and the opening will be backfilled with bentonite. The surface at penetrations in paved areas will be patched with field-mixed Portland cement concrete or cold-mix asphalt patch and hand-finished in an attempt to be similar to the surrounding pavement.

Investigation-Derived Waste

Investigation-Derived waste (IDW) is expected generated during this program included two drums of soil and one of wash water. This waste is currently being characterized and will be properly disposed of off Site in the near future.

RESULTS

The location of soil vapor and companion soil boring locations probes and soil borings installed as part of this Study are shown on Figure 2. The results obtained from testing

of soil vapor and soil matrix samples during this investigations are summarized on Tables 1, and 2, respectively.

Soil Vapor

Eight VOCs were detected in collected soil vapor samples. These compounds included PCE and related compounds, such as trichloroethene (TCE), cis-1,2-dichloroethene (cis-1,2-DCE), trans-1,2-dichloroethene and vinyl chloride. In addition, low levels of toluene, chlorobenzene and chloroform were also observed in a limited number of samples. The results were compared to conservative screening criteria (California Human Health Screening Levels [CHHSLs]). PCE and TCE were the only compounds observed at concentrations in excess of their respective CHHSLs. PCE was observed in excess of its CHHSL in each sample collected, with the highest concentration (210,000 micrograms per liter [ug/l] observed at V-7.

Soil Matrix

Four VOCs were detected in collected soil matrix samples. These compounds included PCE and related compounds, such as TCE and cis-1,2-DCE. In addition, a low level of 1,4-dichlorobenzene was also observed in one sample (V-7). The results were compared to conservative screening criteria (EPA Region IX Regional Screening Levels [RSLs]). PCE was the only compounds observed at concentrations in excess of its RSL, and this condition was only observed in one sample (V-7). The highest detected concentration of PCE (600,000 micrograms per kilogram [ug/kg]) was observed at V-7.

CLOSING

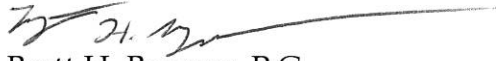
PCE and related compounds were observed in soil and soil vapor over a wide portion of the Site. The most elevated concentrations were observed in samples collected from near the former dry cleaning machine and near the property boundary on the eastern portion of the Site.

Information has been collected and available information has been analyzed using currently accepted assessment techniques and it is believed that the inferences made are reasonably representative of the property. However, the scope of the investigations was limited, and it is possible that other and/or additional sources of contamination are present at the Site that have not been assessed. The findings and conclusions were based solely on the available data. Additional and/or new information could have a significant impact on the findings, conclusions and recommendations. BEC makes no warranty, expressed or implied, except that the services have been performed in

accordance with generally accepted environmental investigation practices applicable at the time and location of the work performed as summarized in this Summary Report.

If you have any questions or comments, regarding this Summary Report, please feel free to call.

Sincerely,

A handwritten signature in black ink, appearing to read "Brett H. Bowyer", with a long horizontal flourish extending to the right.

Brett H. Bowyer, P.G.
Principal

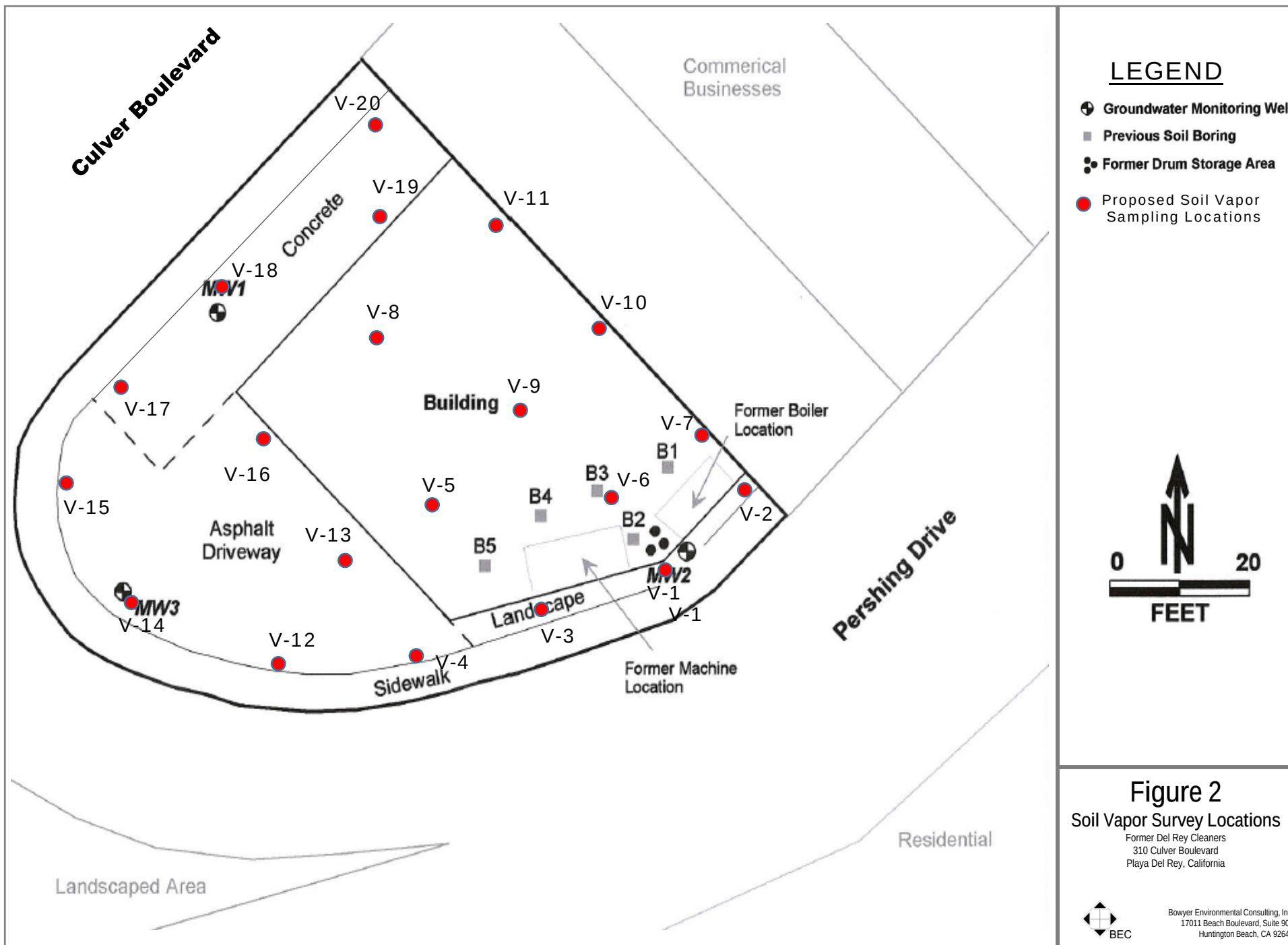
Figures



Figure 1
Regional Site Location
Former Del Rey Cleaners
310 Culver Boulevard
Playa Del Rey, California



Bowyer Environmental Consulting, Inc.
17011 Beach Boulevard, Suite 900
Huntington Beach, CA 92647



Tables

TABLE 1
Volatile Organic Compounds in Soil Vapor
Former Del Rey Cleaners
Playa Del Rey, California

Sample Identification	Sample Date	Sample Depth (feet bgs)	Volatile Organic Compounds (EPA Method 8240B)							
			Chlorobenzene	Chloroform	Cis-1,2-Dichloroethene	Trans-1,2-Dichloroethene	Tetrachloroethene	Toluene	Trichloroethene	Vinyl Chloride
V-1-5	3/21/2014	5	ND<0.008	ND<0.008	ND<0.008	ND<0.008	193	ND<0.008	0.058	ND<0.008
V-2-4.8	3/21/2014	4.8	ND<0.008	ND<0.008	ND<0.008	ND<0.008	62.5	ND<0.008	ND<0.008	ND<0.008
V-3-5	3/21/2014	5	ND<0.008	ND<0.008	ND<0.008	ND<0.008	123	ND<0.008	0.133	ND<0.008
V-4-5	3/21/2014	5	ND<0.008	ND<0.008	ND<0.008	ND<0.008	57.6	ND<0.008	0.029	ND<0.008
V-5-5	3/21/2014	5	ND<0.008	ND<0.008	0.017	ND<0.008	735	ND<0.008	1.27	ND<0.008
V-6-5	3/21/2014	5	0.012	0.083	0.863	0.287	13,300	ND<0.008	7.54	ND<0.008
V-7-2	3/21/2014	2	0.118	0.068	ND<0.008	ND<0.008	210,000	0.025	5.8	ND<0.008
V-8-5	3/21/2014	5	ND<0.008	ND<0.008	3.07	0.088	4,200	ND<0.008	4.81	ND<0.008
V-9-5	3/21/2014	5	ND<0.008	0.053	9.28	1.17	1,350	ND<0.008	15.40	ND<0.008
V-10-5	3/21/2014	5	ND<0.008	0.035	16.4	2.24	2,160	ND<0.008	11.3	ND<0.008
V-11-5	3/21/2014	5	ND<0.008	0.030	41.7	2.31	908	ND<0.008	29.7	0.008
V-12-5	3/21/2014	5	ND<0.008	ND<0.008	ND<0.008	ND<0.008	56.50	ND<0.008	ND<0.008	ND<0.008
V-13-5	3/21/2014	5	ND<0.008	ND<0.008	ND<0.008	ND<0.008	41.7	ND<0.008	0.222	ND<0.008
V-14-5	3/21/2014	5	ND<0.008	ND<0.008	0.035	0.048	272	ND<0.008	3.30	ND<0.008
V-14-5 REP	3/21/2014	5	ND<0.008	ND<0.008	0.026	0.050	395	ND<0.008	3.68	ND<0.008
V-15-5	3/21/2014	5	ND<0.008	ND<0.008	11.1	2.38	122	ND<0.008	14.1	ND<0.008
V-16-5	3/21/2014	5	ND<0.008	ND<0.008	ND<0.008	ND<0.008	274	ND<0.008	2.05	ND<0.008
V-17-5	3/21/2014	5	ND<0.008	ND<0.008	0.664	0.240	134	0.013	1.28	ND<0.008
V-18-4	3/21/2014	4	ND<0.008	ND<0.008	0.805	ND<0.008	1,790	0.031	6.09	ND<0.008
V-19-5	3/21/2014	5	ND<0.008	ND<0.008	17.2	0.804	1,720	0.009	4.5	0.061
V-20-5	3/21/2014	5	ND<0.008	ND<0.008	25.0	0.971	2,320	0.019	10.4	ND<0.008
Screening Criteria										
CHHSL Commercial/Industrial			-	-	120	240	1.6	890	4.4	0.095

Notes: Results given in milligrams per liter (µg/L).
ND< 0.008 = Not detected at or above the listed reporting limit.
- = No standard established.
Bold = Values > Screening Criteria.
bgs = below ground surface
NA = Not analyzed
CHHSL = California Human Health Screening Levels for commercial/industrial property use at buildings with engineered fill blow slab gravel (OEHHA, January, 2005).

TABLE 2
Volatile Organic Compounds in Soil
Former Del Rey Cleaners
Playa Del Rey, California

Sample Identification	Sample Date	Sample Depth (feet bgs)	Volatile Organic Compounds			
			1,4-Dichlorobenzene	Tetrachloroethene	Trichloroethene	Cis-1,2-Dichloroethene
V-1-5-5.5	3/17/14	5	ND<4.4	9.1	ND<4.4	ND<4.4
V-2-4.5-5	3/17/14	4.5	ND<4.0	ND<4.0	ND<4.0	ND<4.0
V-3-5-5.5	3/17/14	5	ND<4.2	9.0	ND<4.2	ND<4.2
V-4-5-5.5	3/18/14	5	ND<5.0	ND<5.0	ND<5.0	ND<5.0
V-5-4.5-5	3/17/14	4.5	ND<4.8	110	ND<4.8	ND<4.8
V-6-4.5-5	3/17/14	4.5	ND<4.3	19	ND<4.3	ND<4.3
V-7-1.5-2	3/17/14	1.5	4.0	600,000	ND<3.7	ND<3.7
V-8-4.5-5	3/17/14	4.5	ND<4.8	8.8	ND<4.8	ND<4.8
V-9-5-5.5	3/17/14	5	ND<4.9	8.5	ND<4.9	ND<4.9
V-10-5-5.5	3/17/14	5	ND<4.8	6.0	ND<4.8	ND<4.8
V-11-4.5-5	3/17/14	4.5	ND<4.7	150	6.6	17
V-12-5-5.5	3/18/14	5	ND<4.9	ND<4.9	ND<4.9	ND<4.9
V-13-5-5.5	3/18/14	5	ND<4.9	ND<4.9	ND<4.9	ND<4.9
V-14-5-5.5	3/18/14	5	ND<4.7	15	ND<4.7	ND<4.7
V-15-5-5.5	3/18/14	5	ND<4.7	ND<4.7	ND<4.7	ND<4.7
V-16-5-5.5	3/18/14	5	ND<5.0	ND<5.0	ND<5.0	ND<5.0
V-17-4-4.5	3/17/14	4	ND<4.5	ND<4.5	ND<4.5	ND<4.5
V-18-4-4.5	3/17/14	4	ND<4.6	11	ND<4.6	ND<4.6
V-19-4-4.5	3/17/14	4	ND<4.7	13	ND<4.7	ND<4.7
V-20-4.5-5	3/17/14	4.5	ND<4.4	20	ND<4.4	7.0
Screening Criteria						
CHHSL Commercial/Industrial			-	-	-	-
Regional Screening Levels - Industrial			12,000	110,000	6,400	2,000,000

Notes:

Results given in micrograms per kilogram (ug/kg).

ND<4.0 = Not detected at or above the listed reporting limit.

- = No standard established.

Bold = Values > Screening Criteria.

bgs = below ground surface

NA = Not analyzed

CHHSL = California Human Health Screening Levels

Regional Screening Levels = USEPA Screening Criteria (April 2012)

Attachment A
Laboratory Report



P.O. BOX 5387 | FULLERTON, CA 92838
(714) 449-9937 | FAX (714) 449-9685

**JONES ENVIRONMENTAL
LABORATORY RESULTS**

Client: Bowyer Environmental Consulting, Inc.
Client Address: 17011 Beach Blvd., Suite 900
Huntington Beach, CA 92647

Report date: 3/21/2014
JEL Ref. No.: E-0074

Attn: Willy Parish

Date Sampled: 3/21/2014
Date Received: 3/21/2014
Date Analyzed: 3/21/2014
Physical State: Soil Gas

Project Name: Former Del Ray Cleaner
Project Address: 310 Culver Drive
Playa Del Ray, CA

ANALYSES REQUESTED

1. EPA 8260B - Volatile Organics by GC/MS + Oxygenates

Sampling – Soil Gas samples were collected in glass gas-tight syringes equipped with Teflon plungers. Tubing placed in the ground for soil gas sampling was purged three different times as recommended by DTSC/RWQCB guidance documents. This purge test determined how many purges of the soil gas tubing were needed throughout the project. One, three and ten purge volumes were analyzed to make this determination.

A tracer gas mixture of n-propanol and n-pentane was placed at the tubing-surface interface before sampling. These compounds were analyzed during the 8260B analytical run to determine if there were surface leaks into the subsurface due to improper installation of the probe. No n-propanol or n-pentane was found in any of the samples reported herein.

The sampling rate was approximately 200 cc/min except when noted differently on the chain of custody record using a gas tight syringe. 3 purge volumes were used since this purging level gave the highest results for the compound(s) of greatest interest.

Prior to purging and sampling of soil gas at each point, a shut-in test was conducted to check for leaks in the above ground fittings. The shut-in test was performed on the above ground apparatus by evacuating the line to a vacuum of 100 inches of water, sealing the entire system and watching the vacuum for at least one minute. A vacuum gauge attached in parallel to the apparatus measured the vacuum. If there was any observable loss of vacuum, the fittings were adjusted as needed until the vacuum did not change noticeably. The soil gas sample was then taken.

No flow conditions occur when a sampling rate greater than 10 mL/min cannot be maintained without applying a vacuum greater than 100 inches of water to the sampling train. The sampling train is left at a vacuum for no less than three minutes. If the vacuum does not subside appreciably after three minutes, the sample location is determined to be a no flow sample.

Analytical – Soil Gas samples were analyzed using EPA Method 8260 that includes extra compounds required by DTSC/RWQCB (such as Freon 113). Instrument Continuing Calibration Verification, QC Reference Standards, Instrument Blanks and Sampling Blanks were analyzed every 12 hours as prescribed by the method. In addition, Matrix Spike (MS) and Matrix Spike Duplicates (MSD) were analyzed with each batch of Soil Gas samples. A duplicate/replicate sample was analyzed each day of the sampling activity. All samples were injected into the GC/MS system within 30 minutes of sampling.

Approval:

Steve Jones, Ph.D.
Laboratory Manager



P.O. BOX 5387 | FULLERTON, CA 92838
(714) 449-9937 | FAX (714) 449-9685

JONES ENVIRONMENTAL LABORATORY RESULTS

Client:	Bowyer Environmental Consulting, Inc.	Report date:	3/21/2014
Client Address:	17011 Beach Blvd., Suite 900 Huntington Beach, CA 92647	JEL Ref. No.:	E-0074
Attn:	Willy Parish	Date Sampled:	3/21/2014
Project:	Former Del Ray Cleaner	Date Received:	3/21/2014
Project Address:	310 Culver Drive Playa Del Ray, CA	Date Analyzed:	3/21/2014
		Physical State:	Soil Gas

EPA 8260B-Volatile Organics by GC/MS + Oxygenates

<u>Sample ID:</u>	V-10-5' 1P	V-10-5' 3P	V-10-5' 10P	V-7-2'	V-11-5'		
<u>JEL ID:</u>	E-0074-01	E-0074-02	E-0074-03	E-0074-04	E-0074-05	<u>Practical Quantitation</u>	<u>Units</u>
Analytes:						<u>Limit</u>	
Benzene	ND	ND	ND	ND	ND	0.008	µg/L
Bromobenzene	ND	ND	ND	ND	ND	0.008	µg/L
Bromodichloromethane	ND	ND	ND	ND	ND	0.008	µg/L
Bromoform	ND	ND	ND	ND	ND	0.008	µg/L
n-Butylbenzene	ND	ND	ND	ND	ND	0.008	µg/L
sec-Butylbenzene	ND	ND	ND	ND	ND	0.008	µg/L
tert-Butylbenzene	ND	ND	ND	ND	ND	0.008	µg/L
Carbon tetrachloride	ND	ND	ND	ND	ND	0.008	µg/L
Chlorobenzene	ND	ND	ND	0.118	ND	0.008	µg/L
Chloroform	0.036	0.035	0.038	0.068	0.030	0.008	µg/L
2-Chlorotoluene	ND	ND	ND	ND	ND	0.008	µg/L
4-Chlorotoluene	ND	ND	ND	ND	ND	0.008	µg/L
Dibromochloromethane	ND	ND	ND	ND	ND	0.008	µg/L
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	ND	0.008	µg/L
1,2-Dibromoethane (EDB)	ND	ND	ND	ND	ND	0.008	µg/L
Dibromomethane	ND	ND	ND	ND	ND	0.008	µg/L
1,2- Dichlorobenzene	ND	ND	ND	ND	ND	0.008	µg/L
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	0.008	µg/L
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	0.008	µg/L
Dichlorodifluoromethane	ND	ND	ND	ND	ND	0.008	µg/L
1,1-Dichloroethane	ND	ND	ND	ND	ND	0.008	µg/L
1,2-Dichloroethane	ND	ND	ND	ND	ND	0.008	µg/L
1,1-Dichloroethene	ND	ND	ND	ND	ND	0.008	µg/L
cis-1,2-Dichloroethene	14.2*	16.4*	9.25*	ND	41.7*	0.008	µg/L
trans-1,2-Dichloroethene	2.35	2.24	2.62	ND	2.31	0.008	µg/L
1,2-Dichloropropane	ND	ND	ND	ND	ND	0.008	µg/L
1,3-Dichloropropane	ND	ND	ND	ND	ND	0.008	µg/L
2,2-Dichloropropane	ND	ND	ND	ND	ND	0.008	µg/L
1,1-Dichloropropene	ND	ND	ND	ND	ND	0.008	µg/L

ND= Not Detected

JONES ENVIRONMENTAL LABORATORY RESULTS

EPA 8260B-Volatile Organics by GC/MS + Oxygenates

<u>Sample ID:</u>	V-10-5' 1P	V-10-5' 3P	V-10-5' 10P	V-7-2'	V-11-5'		
<u>JEL ID:</u>	E-0074-01	E-0074-02	E-0074-03	E-0074-04	E-0074-05	<u>Practical Quantitation</u>	<u>Units</u>
Analytes:						<u>Limit</u>	
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	0.008	µg/L
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	0.008	µg/L
Ethylbenzene	ND	ND	ND	ND	ND	0.008	µg/L
Freon 113	ND	ND	ND	ND	ND	0.040	µg/L
Hexachlorobutadiene	ND	ND	ND	ND	ND	0.008	µg/L
Isopropylbenzene	ND	ND	ND	ND	ND	0.008	µg/L
4-Isopropyltoluene	ND	ND	ND	ND	ND	0.008	µg/L
Methylene chloride	ND	ND	ND	ND	ND	0.008	µg/L
Naphthalene	ND	ND	ND	ND	ND	0.008	µg/L
n-Propylbenzene	ND	ND	ND	ND	ND	0.008	µg/L
Styrene	ND	ND	ND	ND	ND	0.008	µg/L
1,1,1,2-Tetrachloroethane	ND	ND	ND	ND	ND	0.008	µg/L
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	0.008	µg/L
Tetrachloroethylene	1560*	2160*	1270*	210000*	908*	0.008	µg/L
Toluene	ND	ND	ND	0.025	ND	0.008	µg/L
1,2,3-Trichlorobenzene	ND	ND	ND	ND	ND	0.008	µg/L
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	0.008	µg/L
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	0.008	µg/L
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	0.008	µg/L
Trichloroethylene	7.55*	11.3*	0.500*	5.80	29.7*	0.008	µg/L
Trichlorofluoromethane	ND	ND	ND	ND	ND	0.008	µg/L
1,2,3-Trichloropropane	ND	ND	ND	ND	ND	0.008	µg/L
1,2,4-Trimethylbenzene	ND	ND	ND	ND	ND	0.008	µg/L
1,3,5-Trimethylbenzene	ND	ND	ND	ND	ND	0.008	µg/L
Vinyl chloride	ND	ND	ND	ND	0.008	0.008	µg/L
Xylenes	ND	ND	ND	ND	ND	0.008	µg/L
MTBE	ND	ND	ND	ND	ND	0.040	µg/L
Ethyl-tert-butylether	ND	ND	ND	ND	ND	0.040	µg/L
Di-isopropylether	ND	ND	ND	ND	ND	0.040	µg/L
tert-amylmethylether	ND	ND	ND	ND	ND	0.040	µg/L
tert-Butylalcohol	ND	ND	ND	ND	ND	0.400	µg/L
TIC:							
n-propanol	ND	ND	ND	ND	ND	0.080	µg/L
n-pentane	ND	ND	ND	ND	ND	0.008	µg/L
Dilution Factor	1/250*	1/250*	1/250*	1/2500*	1/100*		
Surrogate Recoveries:						QC Limits	
Dibromofluoromethane	108%	106%	107%	110%	102%	75 - 125	
Toluene-d ₈	100%	98%	97%	86%	97%	75 - 125	
4-Bromofluorobenzene	104%	104%	105%	96%	106%	75 - 125	
	E2-032114- E-0074	E2-032114- E-0074	E2-032114- E-0074	E1-032114- E-0074	E2-032114- E-0074		

ND= Not Detected

* = Dilutions for these compound(s); first number for all others



P.O. BOX 5387 | FULLERTON, CA 92838
(714) 449-9937 | FAX (714) 449-9685

JONES ENVIRONMENTAL LABORATORY RESULTS

Client:	Bowyer Environmental Consulting, Inc.	Report date:	3/21/2014
Client Address:	17011 Beach Blvd., Suite 900 Huntington Beach, CA 92647	JEL Ref. No.:	E-0074
Attn:	Willy Parish	Date Sampled:	3/21/2014
Project:	Former Del Ray Cleaner	Date Received:	3/21/2014
Project Address:	310 Culver Drive Playa Del Ray, CA	Date Analyzed:	3/21/2014
		Physical State:	Soil Gas

EPA 8260B-Volatile Organics by GC/MS + Oxygenates

<u>Sample ID:</u>	V-8-5'	V-9-5'	V-6-5'	V-5-5'	V-2-4.8'		
<u>JEL ID:</u>	E-0074-06	E-0074-07	E-0074-08	E-0074-09	E-0074-10	<u>Practical Quantitation Limit</u>	<u>Units</u>
Analytes:							
Benzene	ND	ND	ND	ND	ND	0.008	µg/L
Bromobenzene	ND	ND	ND	ND	ND	0.008	µg/L
Bromodichloromethane	ND	ND	ND	ND	ND	0.008	µg/L
Bromoform	ND	ND	ND	ND	ND	0.008	µg/L
n-Butylbenzene	ND	ND	ND	ND	ND	0.008	µg/L
sec-Butylbenzene	ND	ND	ND	ND	ND	0.008	µg/L
tert-Butylbenzene	ND	ND	ND	ND	ND	0.008	µg/L
Carbon tetrachloride	ND	ND	ND	ND	ND	0.008	µg/L
Chlorobenzene	ND	ND	0.012	ND	ND	0.008	µg/L
Chloroform	ND	0.053	0.083	ND	ND	0.008	µg/L
2-Chlorotoluene	ND	ND	ND	ND	ND	0.008	µg/L
4-Chlorotoluene	ND	ND	ND	ND	ND	0.008	µg/L
Dibromochloromethane	ND	ND	ND	ND	ND	0.008	µg/L
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	ND	0.008	µg/L
1,2-Dibromoethane (EDB)	ND	ND	ND	ND	ND	0.008	µg/L
Dibromomethane	ND	ND	ND	ND	ND	0.008	µg/L
1,2- Dichlorobenzene	ND	ND	ND	ND	ND	0.008	µg/L
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	0.008	µg/L
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	0.008	µg/L
Dichlorodifluoromethane	ND	ND	ND	ND	ND	0.008	µg/L
1,1-Dichloroethane	ND	ND	ND	ND	ND	0.008	µg/L
1,2-Dichloroethane	ND	ND	ND	ND	ND	0.008	µg/L
1,1-Dichloroethene	ND	ND	ND	ND	ND	0.008	µg/L
cis-1,2-Dichloroethene	3.07	9.28*	0.863	0.017	ND	0.008	µg/L
trans-1,2-Dichloroethene	0.088	1.17	0.287	ND	ND	0.008	µg/L
1,2-Dichloropropane	ND	ND	ND	ND	ND	0.008	µg/L
1,3-Dichloropropane	ND	ND	ND	ND	ND	0.008	µg/L
2,2-Dichloropropane	ND	ND	ND	ND	ND	0.008	µg/L
1,1-Dichloropropene	ND	ND	ND	ND	ND	0.008	µg/L

ND= Not Detected

JONES ENVIRONMENTAL LABORATORY RESULTS

EPA 8260B-Volatile Organics by GC/MS + Oxygenates

<u>Sample ID:</u>	V-8-5'	V-9-5'	V-6-5'	V-5-5'	V-2-4.8'		
<u>JEL ID:</u>	E-0074-06	E-0074-07	E-0074-08	E-0074-09	E-0074-10	<u>Practical Quantitation</u>	<u>Units</u>
Analytes:						<u>Limit</u>	
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	0.008	µg/L
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	0.008	µg/L
Ethylbenzene	ND	ND	ND	ND	ND	0.008	µg/L
Freon 113	ND	ND	ND	ND	ND	0.040	µg/L
Hexachlorobutadiene	ND	ND	ND	ND	ND	0.008	µg/L
Isopropylbenzene	ND	ND	ND	ND	ND	0.008	µg/L
4-Isopropyltoluene	ND	ND	ND	ND	ND	0.008	µg/L
Methylene chloride	ND	ND	ND	ND	ND	0.008	µg/L
Naphthalene	ND	ND	ND	ND	ND	0.008	µg/L
n-Propylbenzene	ND	ND	ND	ND	ND	0.008	µg/L
Styrene	ND	ND	ND	ND	ND	0.008	µg/L
1,1,1,2-Tetrachloroethane	ND	ND	ND	ND	ND	0.008	µg/L
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	0.008	µg/L
Tetrachloroethylene	4200*	1350*	13300*	735*	62.5*	0.008	µg/L
Toluene	ND	ND	ND	ND	ND	0.008	µg/L
1,2,3-Trichlorobenzene	ND	ND	ND	ND	ND	0.008	µg/L
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	0.008	µg/L
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	0.008	µg/L
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	0.008	µg/L
Trichloroethylene	4.81	15.4*	7.54	1.27	ND	0.008	µg/L
Trichlorofluoromethane	ND	ND	ND	ND	ND	0.008	µg/L
1,2,3-Trichloropropane	ND	ND	ND	ND	ND	0.008	µg/L
1,2,4-Trimethylbenzene	ND	ND	ND	ND	ND	0.008	µg/L
1,3,5-Trimethylbenzene	ND	ND	ND	ND	ND	0.008	µg/L
Vinyl chloride	ND	ND	ND	ND	ND	0.008	µg/L
Xylenes	ND	ND	ND	ND	ND	0.008	µg/L
MTBE	ND	ND	ND	ND	ND	0.040	µg/L
Ethyl-tert-butylether	ND	ND	ND	ND	ND	0.040	µg/L
Di-isopropylether	ND	ND	ND	ND	ND	0.040	µg/L
tert-amylmethylether	ND	ND	ND	ND	ND	0.040	µg/L
tert-Butylalcohol	ND	ND	ND	ND	ND	0.400	µg/L
TIC:							
n-propanol	ND	ND	ND	ND	ND	0.080	µg/L
n-pentane	ND	ND	ND	ND	ND	0.008	µg/L
Dilution Factor	1/100*	1/100*	1/2500*	1/100*	1/10*		
Surrogate Recoveries:						QC Limits	
Dibromofluoromethane	113%	105%	107%	106%	109%	75 - 125	
Toluene-d ₈	107%	97%	96%	101%	102%	75 - 125	
4-Bromofluorobenzene	109%	110%	108%	105%	104%	75 - 125	
	E1-032114- E-0074	E2-032114- E-0074	E1-032114- E-0074	E1-032114- E-0074	E1-032114- E-0074		

ND= Not Detected

* = Dilutions for these compound(s); first number for all others



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JONES ENVIRONMENTAL LABORATORY RESULTS

Client:	Bowyer Environmental Consulting, Inc.	Report date:	3/21/2014
Client Address:	17011 Beach Blvd., Suite 900 Huntington Beach, CA 92647	JEL Ref. No.:	E-0074
Attn:	Willy Parish	Date Sampled:	3/21/2014
Project:	Former Del Ray Cleaner	Date Received:	3/21/2014
Project Address:	310 Culver Drive Playa Del Ray, CA	Date Analyzed:	3/21/2014
		Physical State:	Soil Gas

EPA 8260B-Volatile Organics by GC/MS + Oxygenates

<u>Sample ID:</u>	V-1-5'	V-3-5'	V-4-5'	V-13-5'	V-12-5'		
<u>JEL ID:</u>	E-0074-11	E-0074-12	E-0074-13	E-0074-14	E-0074-15	<u>Practical Quantitation</u>	<u>Units</u>
Analytes:						<u>Limit</u>	
Benzene	ND	ND	ND	ND	ND	0.008	µg/L
Bromobenzene	ND	ND	ND	ND	ND	0.008	µg/L
Bromodichloromethane	ND	ND	ND	ND	ND	0.008	µg/L
Bromoform	ND	ND	ND	ND	ND	0.008	µg/L
n-Butylbenzene	ND	ND	ND	ND	ND	0.008	µg/L
sec-Butylbenzene	ND	ND	ND	ND	ND	0.008	µg/L
tert-Butylbenzene	ND	ND	ND	ND	ND	0.008	µg/L
Carbon tetrachloride	ND	ND	ND	ND	ND	0.008	µg/L
Chlorobenzene	ND	ND	ND	ND	ND	0.008	µg/L
Chloroform	ND	ND	ND	ND	ND	0.008	µg/L
2-Chlorotoluene	ND	ND	ND	ND	ND	0.008	µg/L
4-Chlorotoluene	ND	ND	ND	ND	ND	0.008	µg/L
Dibromochloromethane	ND	ND	ND	ND	ND	0.008	µg/L
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	ND	0.008	µg/L
1,2-Dibromoethane (EDB)	ND	ND	ND	ND	ND	0.008	µg/L
Dibromomethane	ND	ND	ND	ND	ND	0.008	µg/L
1,2- Dichlorobenzene	ND	ND	ND	ND	ND	0.008	µg/L
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	0.008	µg/L
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	0.008	µg/L
Dichlorodifluoromethane	ND	ND	ND	ND	ND	0.008	µg/L
1,1-Dichloroethane	ND	ND	ND	ND	ND	0.008	µg/L
1,2-Dichloroethane	ND	ND	ND	ND	ND	0.008	µg/L
1,1-Dichloroethene	ND	ND	ND	ND	ND	0.008	µg/L
cis-1,2-Dichloroethene	ND	ND	ND	ND	ND	0.008	µg/L
trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	0.008	µg/L
1,2-Dichloropropane	ND	ND	ND	ND	ND	0.008	µg/L
1,3-Dichloropropane	ND	ND	ND	ND	ND	0.008	µg/L
2,2-Dichloropropane	ND	ND	ND	ND	ND	0.008	µg/L
1,1-Dichloropropene	ND	ND	ND	ND	ND	0.008	µg/L

ND= Not Detected

JONES ENVIRONMENTAL LABORATORY RESULTS

EPA 8260B-Volatile Organics by GC/MS + Oxygenates

<u>Sample ID:</u>	V-1-5'	V-3-5'	V-4-5'	V-13-5'	V-12-5'		
<u>JEL ID:</u>	E-0074-11	E-0074-12	E-0074-13	E-0074-14	E-0074-15	<u>Practical Quantitation</u>	<u>Units</u>
Analytes:						<u>Limit</u>	
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	0.008	µg/L
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	0.008	µg/L
Ethylbenzene	ND	ND	ND	ND	ND	0.008	µg/L
Freon 113	ND	ND	ND	ND	ND	0.040	µg/L
Hexachlorobutadiene	ND	ND	ND	ND	ND	0.008	µg/L
Isopropylbenzene	ND	ND	ND	ND	ND	0.008	µg/L
4-Isopropyltoluene	ND	ND	ND	ND	ND	0.008	µg/L
Methylene chloride	ND	ND	ND	ND	ND	0.008	µg/L
Naphthalene	ND	ND	ND	ND	ND	0.008	µg/L
n-Propylbenzene	ND	ND	ND	ND	ND	0.008	µg/L
Styrene	ND	ND	ND	ND	ND	0.008	µg/L
1,1,1,2-Tetrachloroethane	ND	ND	ND	ND	ND	0.008	µg/L
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	0.008	µg/L
Tetrachloroethylene	193*	123*	57.6*	41.7*	56.5*	0.008	µg/L
Toluene	ND	ND	ND	ND	ND	0.008	µg/L
1,2,3-Trichlorobenzene	ND	ND	ND	ND	ND	0.008	µg/L
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	0.008	µg/L
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	0.008	µg/L
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	0.008	µg/L
Trichloroethylene	0.058	0.133	0.029	0.222	ND	0.008	µg/L
Trichlorofluoromethane	ND	ND	ND	ND	ND	0.008	µg/L
1,2,3-Trichloropropane	ND	ND	ND	ND	ND	0.008	µg/L
1,2,4-Trimethylbenzene	ND	ND	ND	ND	ND	0.008	µg/L
1,3,5-Trimethylbenzene	ND	ND	ND	ND	ND	0.008	µg/L
Vinyl chloride	ND	ND	ND	ND	ND	0.008	µg/L
Xylenes	ND	ND	ND	ND	ND	0.008	µg/L
MTBE	ND	ND	ND	ND	ND	0.040	µg/L
Ethyl-tert-butylether	ND	ND	ND	ND	ND	0.040	µg/L
Di-isopropylether	ND	ND	ND	ND	ND	0.040	µg/L
tert-amylmethylether	ND	ND	ND	ND	ND	0.040	µg/L
tert-Butylalcohol	ND	ND	ND	ND	ND	0.400	µg/L
TIC:							
n-propanol	ND	ND	ND	ND	ND	0.080	µg/L
n-pentane	ND	ND	ND	ND	ND	0.008	µg/L
<u>Dilution Factor</u>	1/100*	1/100*	1/10*	1/10*	1/10*		
<u>Surrogate Recoveries:</u>						<u>QC Limits</u>	
Dibromofluoromethane	107%	105%	106%	106%	106%	75 - 125	
Toluene-d ₈	98%	100%	100%	101%	98%	75 - 125	
4-Bromofluorobenzene	105%	106%	105%	104%	105%	75 - 125	
	E2-032114- E-0074	E2-032114- E-0074	E2-032114- E-0074	E2-032114- E-0074	E2-032114- E-0074		

ND= Not Detected

* = Dilutions for these compound(s); first number for all others



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JONES ENVIRONMENTAL LABORATORY RESULTS

Client:	Bowyer Environmental Consulting, Inc.	Report date:	3/21/2014
Client Address:	17011 Beach Blvd., Suite 900 Huntington Beach, CA 92647	JEL Ref. No.:	E-0074
Attn:	Willy Parish	Date Sampled:	3/21/2014
Project:	Former Del Ray Cleaner	Date Received:	3/21/2014
Project Address:	310 Culver Drive Playa Del Ray, CA	Date Analyzed:	3/21/2014
		Physical State:	Soil Gas

EPA 8260B-Volatile Organics by GC/MS + Oxygenates

<u>Sample ID:</u>	V-20-4'	V-19-4'	V-16-5'	V-14-5'	V-14-5' REP		
<u>JEL ID:</u>	E-0074-16	E-0074-17	E-0074-18	E-0074-19	E-0074-20	<u>Practical Quantitation Limit</u>	<u>Units</u>
Analytes:							
Benzene	ND	ND	ND	ND	ND	0.008	µg/L
Bromobenzene	ND	ND	ND	ND	ND	0.008	µg/L
Bromodichloromethane	ND	ND	ND	ND	ND	0.008	µg/L
Bromoform	ND	ND	ND	ND	ND	0.008	µg/L
n-Butylbenzene	ND	ND	ND	ND	ND	0.008	µg/L
sec-Butylbenzene	ND	ND	ND	ND	ND	0.008	µg/L
tert-Butylbenzene	ND	ND	ND	ND	ND	0.008	µg/L
Carbon tetrachloride	ND	ND	ND	ND	ND	0.008	µg/L
Chlorobenzene	ND	ND	ND	ND	ND	0.008	µg/L
Chloroform	ND	ND	ND	ND	ND	0.008	µg/L
2-Chlorotoluene	ND	ND	ND	ND	ND	0.008	µg/L
4-Chlorotoluene	ND	ND	ND	ND	ND	0.008	µg/L
Dibromochloromethane	ND	ND	ND	ND	ND	0.008	µg/L
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	ND	0.008	µg/L
1,2-Dibromoethane (EDB)	ND	ND	ND	ND	ND	0.008	µg/L
Dibromomethane	ND	ND	ND	ND	ND	0.008	µg/L
1,2- Dichlorobenzene	ND	ND	ND	ND	ND	0.008	µg/L
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	0.008	µg/L
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	0.008	µg/L
Dichlorodifluoromethane	ND	ND	ND	ND	ND	0.008	µg/L
1,1-Dichloroethane	ND	ND	ND	ND	ND	0.008	µg/L
1,2-Dichloroethane	ND	ND	ND	ND	ND	0.008	µg/L
1,1-Dichloroethene	ND	ND	ND	ND	ND	0.008	µg/L
cis-1,2-Dichloroethene	25.0*	17.2*	ND	0.035	0.026	0.008	µg/L
trans-1,2-Dichloroethene	0.971	0.804	ND	0.048	0.050	0.008	µg/L
1,2-Dichloropropane	ND	ND	ND	ND	ND	0.008	µg/L
1,3-Dichloropropane	ND	ND	ND	ND	ND	0.008	µg/L
2,2-Dichloropropane	ND	ND	ND	ND	ND	0.008	µg/L
1,1-Dichloropropene	ND	ND	ND	ND	ND	0.008	µg/L

ND= Not Detected

JONES ENVIRONMENTAL LABORATORY RESULTS

EPA 8260B-Volatile Organics by GC/MS + Oxygenates

<u>Sample ID:</u>	V-20-4'	V-19-4'	V-16-5'	V-14-5'	V-14-5' REP		
<u>JEL ID:</u>	E-0074-16	E-0074-17	E-0074-18	E-0074-19	E-0074-20	<u>Practical Quantitation</u>	<u>Units</u>
Analytes:						<u>Limit</u>	
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	0.008	µg/L
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	0.008	µg/L
Ethylbenzene	ND	ND	ND	ND	ND	0.008	µg/L
Freon 113	ND	ND	ND	ND	ND	0.040	µg/L
Hexachlorobutadiene	ND	ND	ND	ND	ND	0.008	µg/L
Isopropylbenzene	ND	ND	ND	ND	ND	0.008	µg/L
4-Isopropyltoluene	ND	ND	ND	ND	ND	0.008	µg/L
Methylene chloride	ND	ND	ND	ND	ND	0.008	µg/L
Naphthalene	ND	ND	ND	ND	ND	0.008	µg/L
n-Propylbenzene	ND	ND	ND	ND	ND	0.008	µg/L
Styrene	ND	ND	ND	ND	ND	0.008	µg/L
1,1,1,2-Tetrachloroethane	ND	ND	ND	ND	ND	0.008	µg/L
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	0.008	µg/L
Tetrachloroethylene	2320*	1720*	274*	272*	395*	0.008	µg/L
Toluene	0.019	0.009	ND	ND	ND	0.008	µg/L
1,2,3-Trichlorobenzene	ND	ND	ND	ND	ND	0.008	µg/L
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	0.008	µg/L
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	0.008	µg/L
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	0.008	µg/L
Trichloroethylene	10.4*	4.50*	2.05	3.30*	3.68*	0.008	µg/L
Trichlorofluoromethane	ND	ND	ND	ND	ND	0.008	µg/L
1,2,3-Trichloropropane	ND	ND	ND	ND	ND	0.008	µg/L
1,2,4-Trimethylbenzene	ND	ND	ND	ND	ND	0.008	µg/L
1,3,5-Trimethylbenzene	ND	ND	ND	ND	ND	0.008	µg/L
Vinyl chloride	ND	0.061	ND	ND	ND	0.008	µg/L
Xylenes	ND	ND	ND	ND	ND	0.008	µg/L
MTBE	ND	ND	ND	ND	ND	0.040	µg/L
Ethyl-tert-butylether	ND	ND	ND	ND	ND	0.040	µg/L
Di-isopropylether	ND	ND	ND	ND	ND	0.040	µg/L
tert-amylmethylether	ND	ND	ND	ND	ND	0.040	µg/L
tert-Butylalcohol	ND	ND	ND	ND	ND	0.400	µg/L
TIC:							
n-propanol	ND	ND	ND	ND	ND	0.080	µg/L
n-pentane	ND	ND	ND	ND	ND	0.008	µg/L
Dilution Factor	1/250*	1/250*	1/100*	1/100*	1/100*		
Surrogate Recoveries:						QC Limits	
Dibromofluoromethane	108%	104%	106%	105%	101%	75 - 125	
Toluene-d ₈	95%	97%	99%	97%	97%	75 - 125	
4-Bromofluorobenzene	103%	108%	105%	103%	104%	75 - 125	
	E1-032114- E-0074	E1-032114- E-0074	E2-032114- E-0074	E2-032114- E-0074	E2-032114- E-0074		

ND= Not Detected

* = Dilutions for these compound(s); first number for all others



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JONES ENVIRONMENTAL LABORATORY RESULTS

Client:	Bowyer Environmental Consulting, Inc.	Report date:	3/21/2014
Client Address:	17011 Beach Blvd., Suite 900 Huntington Beach, CA 92647	JEL Ref. No.:	E-0074
Attn:	Willy Parish	Date Sampled:	3/21/2014
Project:	Former Del Ray Cleaner	Date Received:	3/21/2014
Project Address:	310 Culver Drive Playa Del Ray, CA	Date Analyzed:	3/21/2014
		Physical State:	Soil Gas

EPA 8260B-Volatile Organics by GC/MS + Oxygenates

<u>Sample ID:</u>	V-18-4'	V-17-5'	V-15-5'		
<u>JEL ID:</u>	E-0074-21	E-0074-22	E-0074-23	<u>Practical Quantitation Limit</u>	<u>Units</u>
Analytes:					
Benzene	ND	ND	ND	0.008	µg/L
Bromobenzene	ND	ND	ND	0.008	µg/L
Bromodichloromethane	ND	ND	ND	0.008	µg/L
Bromoform	ND	ND	ND	0.008	µg/L
n-Butylbenzene	ND	ND	ND	0.008	µg/L
sec-Butylbenzene	ND	ND	ND	0.008	µg/L
tert-Butylbenzene	ND	ND	ND	0.008	µg/L
Carbon tetrachloride	ND	ND	ND	0.008	µg/L
Chlorobenzene	ND	ND	ND	0.008	µg/L
Chloroform	ND	ND	ND	0.008	µg/L
2-Chlorotoluene	ND	ND	ND	0.008	µg/L
4-Chlorotoluene	ND	ND	ND	0.008	µg/L
Dibromochloromethane	ND	ND	ND	0.008	µg/L
1,2-Dibromo-3-chloropropane	ND	ND	ND	0.008	µg/L
1,2-Dibromoethane (EDB)	ND	ND	ND	0.008	µg/L
Dibromomethane	ND	ND	ND	0.008	µg/L
1,2- Dichlorobenzene	ND	ND	ND	0.008	µg/L
1,3-Dichlorobenzene	ND	ND	ND	0.008	µg/L
1,4-Dichlorobenzene	ND	ND	ND	0.008	µg/L
Dichlorodifluoromethane	ND	ND	ND	0.008	µg/L
1,1-Dichloroethane	ND	ND	ND	0.008	µg/L
1,2-Dichloroethane	ND	ND	ND	0.008	µg/L
1,1-Dichloroethene	ND	ND	ND	0.008	µg/L
cis-1,2-Dichloroethene	0.805	0.664	11.1*	0.008	µg/L
trans-1,2-Dichloroethene	ND	0.240	2.38*	0.008	µg/L
1,2-Dichloropropane	ND	ND	ND	0.008	µg/L
1,3-Dichloropropane	ND	ND	ND	0.008	µg/L
2,2-Dichloropropane	ND	ND	ND	0.008	µg/L
1,1-Dichloropropene	ND	ND	ND	0.008	µg/L

ND= Not Detected

JONES ENVIRONMENTAL LABORATORY RESULTS

EPA 8260B-Volatile Organics by GC/MS + Oxygenates

<u>Sample ID:</u>	V-18-4'	V-17-5'	V-15-5'		
<u>JEL ID:</u>	E-0074-21	E-0074-22	E-0074-23	<u>Practical Quantitation Limit</u>	<u>Units</u>
Analytes:					
cis-1,3-Dichloropropene	ND	ND	ND	0.008	µg/L
trans-1,3-Dichloropropene	ND	ND	ND	0.008	µg/L
Ethylbenzene	ND	ND	ND	0.008	µg/L
Freon 113	ND	ND	ND	0.040	µg/L
Hexachlorobutadiene	ND	ND	ND	0.008	µg/L
Isopropylbenzene	ND	ND	ND	0.008	µg/L
4-Isopropyltoluene	ND	ND	ND	0.008	µg/L
Methylene chloride	ND	ND	ND	0.008	µg/L
Naphthalene	ND	ND	ND	0.008	µg/L
n-Propylbenzene	ND	ND	ND	0.008	µg/L
Styrene	ND	ND	ND	0.008	µg/L
1,1,1,2-Tetrachloroethane	ND	ND	ND	0.008	µg/L
1,1,2,2-Tetrachloroethane	ND	ND	ND	0.008	µg/L
Tetrachloroethylene	1790*	134*	122*	0.008	µg/L
Toluene	0.031	0.013	ND	0.008	µg/L
1,2,3-Trichlorobenzene	ND	ND	ND	0.008	µg/L
1,2,4-Trichlorobenzene	ND	ND	ND	0.008	µg/L
1,1,1-Trichloroethane	ND	ND	ND	0.008	µg/L
1,1,2-Trichloroethane	ND	ND	ND	0.008	µg/L
Trichloroethylene	6.09	1.28*	14.1*	0.008	µg/L
Trichlorofluoromethane	ND	ND	ND	0.008	µg/L
1,2,3-Trichloropropane	ND	ND	ND	0.008	µg/L
1,2,4-Trimethylbenzene	ND	ND	ND	0.008	µg/L
1,3,5-Trimethylbenzene	ND	ND	ND	0.008	µg/L
Vinyl chloride	ND	ND	ND	0.008	µg/L
Xylenes	ND	ND	ND	0.008	µg/L
MTBE	ND	ND	ND	0.040	µg/L
Ethyl-tert-butylether	ND	ND	ND	0.040	µg/L
Di-isopropylether	ND	ND	ND	0.040	µg/L
tert-amylmethylether	ND	ND	ND	0.040	µg/L
tert-Butylalcohol	ND	ND	ND	0.400	µg/L
TIC:					
n-propanol	ND	ND	ND	0.080	µg/L
n-pentane	ND	ND	ND	0.008	µg/L
<u>Dilution Factor</u>	1/250*	1/25*	1/100*		
<u>Surrogate Recoveries:</u>				<u>QC Limits</u>	
Dibromofluoromethane	107%	105%	98%	75 - 125	
Toluene-d ₈	97%	103%	98%	75 - 125	
4-Bromofluorobenzene	106%	104%	107%	75 - 125	
	E1-032114- E-0074	E1-032114- E-0074	E2-032114- E-0074		

ND= Not Detected

* = Dilutions for these compound(s); first number for all others



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JONES ENVIRONMENTAL LABORATORY RESULTS

Client:	Bowyer Environmental Consulting, Inc.	Report date:	3/21/2014
Client Address:	17011 Beach Blvd., Suite 900 Huntington Beach, CA 92647	JEL Ref. No.:	E-0074
Attn:	Willy Parish	Date Sampled:	3/21/2014
Project:	Former Del Ray Cleaner	Date Received:	3/21/2014
Project Address:	310 Culver Drive Playa Del Ray, CA	Date Analyzed:	3/21/2014
		Physical State:	Soil Gas

EPA 8260B-Volatile Organics by GC/MS + Oxygenates

<u>Sample ID:</u>	METHOD BLANK	SAMPLING BLANK	METHOD BLANK	SAMPLING BLANK	METHOD BLANK	<u>Practical Quantitation Limit</u>	<u>Units</u>
<u>JEL ID:</u>	E-0074-24	E-0074-25	E-0074-29	E-0074-30	E-0074-34		
Analytes:							
Benzene	ND	ND	ND	ND	ND	0.008	µg/L
Bromobenzene	ND	ND	ND	ND	ND	0.008	µg/L
Bromodichloromethane	ND	ND	ND	ND	ND	0.008	µg/L
Bromoform	ND	ND	ND	ND	ND	0.008	µg/L
n-Butylbenzene	ND	ND	ND	ND	ND	0.008	µg/L
sec-Butylbenzene	ND	ND	ND	ND	ND	0.008	µg/L
tert-Butylbenzene	ND	ND	ND	ND	ND	0.008	µg/L
Carbon tetrachloride	ND	ND	ND	ND	ND	0.008	µg/L
Chlorobenzene	ND	ND	ND	ND	ND	0.008	µg/L
Chloroform	ND	ND	ND	ND	ND	0.008	µg/L
2-Chlorotoluene	ND	ND	ND	ND	ND	0.008	µg/L
4-Chlorotoluene	ND	ND	ND	ND	ND	0.008	µg/L
Dibromochloromethane	ND	ND	ND	ND	ND	0.008	µg/L
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	ND	0.008	µg/L
1,2-Dibromoethane (EDB)	ND	ND	ND	ND	ND	0.008	µg/L
Dibromomethane	ND	ND	ND	ND	ND	0.008	µg/L
1,2- Dichlorobenzene	ND	ND	ND	ND	ND	0.008	µg/L
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	0.008	µg/L
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	0.008	µg/L
Dichlorodifluoromethane	ND	ND	ND	ND	ND	0.008	µg/L
1,1-Dichloroethane	ND	ND	ND	ND	ND	0.008	µg/L
1,2-Dichloroethane	ND	ND	ND	ND	ND	0.008	µg/L
1,1-Dichloroethene	ND	ND	ND	ND	ND	0.008	µg/L
cis-1,2-Dichloroethene	ND	ND	ND	ND	ND	0.008	µg/L
trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	0.008	µg/L
1,2-Dichloropropane	ND	ND	ND	ND	ND	0.008	µg/L
1,3-Dichloropropane	ND	ND	ND	ND	ND	0.008	µg/L
2,2-Dichloropropane	ND	ND	ND	ND	ND	0.008	µg/L
1,1-Dichloropropene	ND	ND	ND	ND	ND	0.008	µg/L

ND= Not Detected

JONES ENVIRONMENTAL LABORATORY RESULTS

EPA 8260B-Volatile Organics by GC/MS + Oxygenates							
<u>Sample ID:</u>	METHOD BLANK	SAMPLING BLANK	METHOD BLANK	SAMPLING BLANK	METHOD BLANK		
<u>JEL ID:</u>	E-0074-24	E-0074-25	E-0074-29	E-0074-30	E-0074-34	<u>Practical Quantitation</u>	<u>Units</u>
<u>Analytes:</u>						<u>Limit</u>	
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	0.008	µg/L
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	0.008	µg/L
Ethylbenzene	ND	ND	ND	ND	ND	0.008	µg/L
Freon 113	ND	ND	ND	ND	ND	0.040	µg/L
Hexachlorobutadiene	ND	ND	ND	ND	ND	0.008	µg/L
Isopropylbenzene	ND	ND	ND	ND	ND	0.008	µg/L
4-Isopropyltoluene	ND	ND	ND	ND	ND	0.008	µg/L
Methylene chloride	ND	ND	ND	ND	ND	0.008	µg/L
Naphthalene	ND	ND	ND	ND	ND	0.008	µg/L
n-Propylbenzene	ND	ND	ND	ND	ND	0.008	µg/L
Styrene	ND	ND	ND	ND	ND	0.008	µg/L
1,1,1,2-Tetrachloroethane	ND	ND	ND	ND	ND	0.008	µg/L
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	0.008	µg/L
Tetrachloroethylene	ND	ND	ND	ND	ND	0.008	µg/L
Toluene	ND	ND	ND	ND	ND	0.008	µg/L
1,2,3-Trichlorobenzene	ND	ND	ND	ND	ND	0.008	µg/L
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	0.008	µg/L
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	0.008	µg/L
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	0.008	µg/L
Trichloroethylene	ND	ND	ND	ND	ND	0.008	µg/L
Trichlorofluoromethane	ND	ND	ND	ND	ND	0.008	µg/L
1,2,3-Trichloropropane	ND	ND	ND	ND	ND	0.008	µg/L
1,2,4-Trimethylbenzene	ND	ND	ND	ND	ND	0.008	µg/L
1,3,5-Trimethylbenzene	ND	ND	ND	ND	ND	0.008	µg/L
Vinyl chloride	ND	ND	ND	ND	ND	0.008	µg/L
Xylenes	ND	ND	ND	ND	ND	0.008	µg/L
MTBE	ND	ND	ND	ND	ND	0.040	µg/L
Ethyl-tert-butylether	ND	ND	ND	ND	ND	0.040	µg/L
Di-isopropylether	ND	ND	ND	ND	ND	0.040	µg/L
tert-amylmethylether	ND	ND	ND	ND	ND	0.040	µg/L
tert-Butylalcohol	ND	ND	ND	ND	ND	0.400	µg/L
<u>TIC:</u>							
n-propanol	ND	ND	ND	ND	ND	0.080	µg/L
n-pentane	ND	ND	ND	ND	ND	0.008	µg/L
<u>Dilution Factor</u>	1	1	1	1	1		
<u>Surrogate Recoveries:</u>						<u>QC Limits</u>	
Dibromofluoromethane	105%	103%	109%	100%	102%	75 - 125	
Toluene-d ₈	101%	106%	100%	100%	99%	75 - 125	
4-Bromofluorobenzene	105%	105%	105%	104%	102%	75 - 125	
	E1-032114- E-0074	E1-032114- E-0074	E2-032114- E-0074	E2-032114- E-0074	E2-032114- E-0074_2		

ND= Not Detected



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JONES ENVIRONMENTAL QUALITY CONTROL INFORMATION

Client:	Bowyer Environmental Consulting, Inc.	Report date:	3/21/2014
Client Address:	17011 Beach Blvd., Suite 900 Huntington Beach, CA 92647	JEL Ref. No.:	E-0074
Attn:	Willy Parish	Date Sampled:	3/21/2014
		Date Received:	3/21/2014
Project:	Former Del Ray Cleaner	Date Analyzed:	3/21/2014
Project Address:	310 Culver Drive Playa Del Ray, CA	Physical State:	Soil Gas

EPA 8260B-Volatile Organics by GC/MS + Oxygenates

Sample Spiked:		Ambient Air		GC#: E1-032114-E-0074		
JEL ID:	E-0074-27	E-0074-28		E-0074-26		
Parameter	MS Recovery (%)	MSD Recovery (%)	RPD	Acceptability Range (%)	LCS	Acceptability Range (%)
Vinyl Chloride	99%	103%	4.1%	60-140	101%	60-140
1,1-Dichloroethylene	97%	106%	8.9%	60-140	102%	60-140
Cis-1,2-Dichloroethene	97%	99%	2.2%	70-130	102%	70-130
1,1,1-Trichloroethane	94%	99%	5.8%	70-130	97%	70-130
Benzene	94%	100%	5.7%	70-130	98%	70-130
Trichloroethylene	89%	95%	6.8%	70-130	94%	70-130
Toluene	101%	105%	3.5%	70-130	102%	70-130
Tetrachloroethene	99%	105%	6.1%	70-130	100%	70-130
Chlorobenzene	101%	106%	5.5%	70-130	102%	70-130
Ethylbenzene	96%	100%	3.5%	70-130	96%	70-130
1,2,4 Trimethylbenzene	95%	100%	5.1%	70-130	97%	70-130
<u>Surrogate Recovery:</u>						
Dibromofluoromethane	98%	103%		75-125	97%	75-125
Toluene-d ₈	101%	103%		75-125	102%	75-125
4-Bromofluorobenzene	105%	102%		75-125	105%	75-125

Method Blank = Not Detected

MS = Matrix Spike

MSD = Matrix Spike Duplicate

RPD = Relative Percent Difference; Acceptability range for RPD is ≤ 15%



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JONES ENVIRONMENTAL QUALITY CONTROL INFORMATION

Client:	Bowyer Environmental Consulting, Inc.	Report date:	3/21/2014
Client Address:	17011 Beach Blvd., Suite 900 Huntington Beach, CA 92647	JEL Ref. No.:	E-0074
Attn:	Willy Parish	Date Sampled:	3/21/2014
		Date Received:	3/21/2014
Project:	Former Del Ray Cleaner	Date Analyzed:	3/21/2014
Project Address:	310 Culver Drive Playa Del Ray, CA	Physical State:	Soil Gas

EPA 8260B-Volatile Organics by GC/MS + Oxygenates

Sample Spiked:		Ambient Air		GC#: E2-032114-E-0074		
JEL ID:		E-0074-32	E-0074-33	E-0074-31		
Parameter	MS Recovery (%)	MSD Recovery (%)	RPD	Acceptability Range (%)	LCS	Acceptability Range (%)
Vinyl Chloride	102%	96%	6.1%	60-140	102%	60-140
1,1-Dichloroethylene	102%	102%	0.5%	60-140	95%	60-140
Cis-1,2-Dichloroethene	109%	106%	2.4%	70-130	99%	70-130
1,1,1-Trichloroethane	106%	105%	1.1%	70-130	101%	70-130
Benzene	102%	101%	0.4%	70-130	96%	70-130
Trichloroethylene	101%	100%	1.7%	70-130	97%	70-130
Toluene	101%	96%	4.3%	70-130	97%	70-130
Tetrachloroethene	99%	100%	0.5%	70-130	95%	70-130
Chlorobenzene	103%	102%	1.2%	70-130	101%	70-130
Ethylbenzene	105%	103%	2.1%	70-130	101%	70-130
1,2,4 Trimethylbenzene	101%	99%	2.5%	70-130	95%	70-130
Surrogate Recovery:						
Dibromofluoromethane	107%	107%		75-125	105%	75-125
Toluene-d ₈	100%	101%		75-125	101%	75-125
4-Bromofluorobenzene	105%	103%		75-125	105%	75-125

Method Blank = Not Detected

MS = Matrix Spike

MSD = Matrix Spike Duplicate

RPD = Relative Percent Difference; Acceptability range for RPD is ≤ 15%



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JONES ENVIRONMENTAL QUALITY CONTROL INFORMATION

Client:	Bowyer Environmental Consulting, Inc.	Report date:	3/21/2014
Client Address:	17011 Beach Blvd., Suite 900 Huntington Beach, CA 92647	JEL Ref. No.:	E-0074
Attn:	Willy Parish	Date Sampled:	3/21/2014
		Date Received:	3/21/2014
Project:	Former Del Ray Cleaner	Date Analyzed:	3/21/2014
Project Address:	310 Culver Drive Playa Del Ray, CA	Physical State:	Soil Gas

EPA 8260B-Volatile Organics by GC/MS + Oxygenates

Sample Spiked:		Ambient Air		GC#: E2-032114-E-0074_2		
JEL ID:		E-0074-36	E-0074-37	E-0074-35		
Parameter	MS Recovery (%)	MSD Recovery (%)	RPD	Acceptability Range (%)	LCS	Acceptability Range (%)
Vinyl Chloride	123%	120%	2.5%	60-140	103%	60-140
1,1-Dichloroethylene	127%	131%	2.9%	60-140	111%	60-140
Cis-1,2-Dichloroethene	110%	113%	3.1%	70-130	99%	70-130
1,1,1-Trichloroethane	99%	99%	0.2%	70-130	99%	70-130
Benzene	103%	109%	6.0%	70-130	110%	70-130
Trichloroethylene	101%	106%	4.7%	70-130	103%	70-130
Toluene	99%	103%	3.4%	70-130	90%	70-130
Tetrachloroethene	103%	109%	6.1%	70-130	94%	70-130
Chlorobenzene	110%	109%	0.6%	70-130	106%	70-130
Ethylbenzene	100%	104%	4.4%	70-130	100%	70-130
1,2,4 Trimethylbenzene	95%	100%	4.8%	70-130	112%	70-130
Surrogate Recovery:						
Dibromofluoromethane	101%	106%		75-125	105%	75-125
Toluene-d ₈	100%	96%		75-125	95%	75-125
4-Bromofluorobenzene	104%	102%		75-125	109%	75-125

Method Blank = Not Detected

MS = Matrix Spike

MSD = Matrix Spike Duplicate

RPD = Relative Percent Difference; Acceptability range for RPD is ≤ 15%

Chain-of-Custody Record

Client Bowyer Environmental Consulting, Inc		Date 3/21/14		SOIL GAS						
Project Name Former Del Ray Cleaner		Client Project #		Purge Number: ☐ 1P ☒ 2P ☐ 7P ☐ 10P						
Project Address 310 Culver Drive		Turn Around Requested:		Purge Rate: 2200 cc/min						
Playa Del Rey, CA		☐ Immediate Attention ☐ Rush 24-48 Hours ☐ Rush 72-96 Hours ☐ Normal ☒ Mobile Lab		Shut in Test ☒ Y ☐ N						
Project Contact Willie Parish		Tracer:		☒ n-propanol ☐ n-pentane ☐ 1,1-DFA ☐ Helium						
Sample ID		Purge Number	Purge Volume	Date	Sample Collection Time	Sample Analysis Time	Laboratory Sample Number	Sample Matrix:	Analysis Requested	Remarks/Special Instructions
V-10-5' 1P	1	1263	3/21	0725	0727	E-0074-01	SG X	Soil (S), Sludge (SL), Aqueous (A), Soil Gas (SG)	2	2 glass gastight syringe
V-10-5' 3P	3	3788	3/21	0735	0742	E-0074-02	SG X		2	
V-10-5' 1P DIL			3/21	0726	0747		SG X		2	1
V-10-5' 3P DIL			3/21	0735	0801		SG X		2	1
V-10-5' 10P	16	1268	3/21	0817	0820	E-0074-03	SG X		2	2
V-10-5' 10P DIL			3/21	0817	0819		SG X		2	1
V-10-5' 2'	3	3739	3/21	0907	0909	E-0074-04	SG X		4	2
V-11-5'	3	3788	3/21	0912	0914	E-0074-05	SG X		2	2
V-8-5'	3	3788	3/21	0922	0924	E-0074-06	SG X		2	2
V-11-5' DIL			3/21	0932	0934		SG X		2	1
1 Relinquished by (signature)		2 Received by (signature)		Date		Date		Total Number of Containers		The delivery of samples and the signature on this Chain of Custody form constitutes authorization to perform the analyses specified above under the Terms and Conditions set forth on the back hereof.
Company		Company		Time		Time				
3/21/14		3/21/14		1656		1656				
3/21/14		3/21/14		1656		1656				
3 Relinquished by (signature)		4 Received by Laboratory (signature)		Date		Date				
Company		Company		Time		Time				

JEL Project # **E-0074**

Page **1** of **5**

Lab Use Only

Sample Condition as Received:

Chilled ☐ yes ☒ no

Sealed ☒ yes ☐ no



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Chain-of-Custody Record

Client		Date		SOIL GAS		Analysis Requested		JEL Project #	
Project Name		Client Project #		Purge Number: ☐ 1P ☒ 3P ☐ 7P ☐ 10P		Purge Rate: ~200 cc/min		Shut in Test: ☒ Y ☐ N	
Project Address		Turn Around Requested:		Tracer:		Sample Matrix:		Magnehelic Vacuum (In/H ₂ O)	
310 Culver Drive		☐ Immediate Attention ☐ Rush 24-48 Hours ☐ Rush 72-96 Hours ☐ Normal ☒ Mobile Lab		☒ n-propanol ☒ n-pentane ☐ 1,1-DFA ☐ Helium		Soil (S), Sludge (SL), Aqueous (A), Soil Gas (SG) EPA 8260B VOCs & OxyS		Number of Containers	
Playa Del Rey, CA									
Project Contact									
Willy Parish									
Sample ID	Purge Number	Purge Volume	Date	Sample Collection Time	Sample Analysis Time	Laboratory Sample Number	Sample Matrix	Analysis Requested	Remarks/Special Instructions
V-7-2' D1L			3/21	0944	0946		SG X		1 glass gastight syringe
V-9-5'	3	3788	3/21	0950	0954	E-0074-07	SG X		
V-8-5' D1L			3/21	0956	1001		SG X		
V-6-5'	3	3788	3/21	1008	1012	E-0074-08	SG X		
V-5-5'	3	3788	3/21	1020	1021	E-0074-09	SG X		
V-9-5' D1L			3/21	1028	1030		SG X		
V-6-5' D1L			3/21	1038	1045		SG X		
V-2-4.8'	3	3785	3/21	1041	1042	E-0074-10	SG X		
V-5-5' D1L			3/21	1052	1058		SG X		
V-1-5'	3	3788	3/21	1055	1102	E-0074-11	SG X		
Relinquished by (signature)		Date		Received by (signature)		Date		Total Number of Containers	
[Signature]		3/21/14		[Signature]		3/21/14		1	
Company		Time		Company		Time		Company	
JEC		1656		JEC		1656		The delivery of samples and the signature on this Chain of Custody form constitutes authorization to perform the analyses specified above under the Terms and Conditions set forth on the back hereof.	
Relinquished by (signature)		Date		Received by Laboratory (signature)		Date			
[Signature]				[Signature]					
Company		Time		Company		Time			

Chain-of-Custody Record

Client Bowyer Environmental Consulting, Inc.		Date 3/21/14		SOIL GAS Purge Number: ☐ 1P ☒ 3P ☐ 7P ☐ 10P Purge Rate: 2200 cc/min Shut in Test: ☒ Y ☐ N		Analysis Requested	
Project Name Former Del Ray Cleaner		Client Project #		Turn Around Requested: ☐ Immediate Attention ☐ Rush 24-48 Hours ☐ Rush 72-96 Hours ☐ Normal ☒ Mobile Lab		Tracer: ☒ n-propanol ☐ n-pentane ☐ 1,1-DFA ☐ Helium	
Project Address 310 Culver Drive							
Project Contact Playa Del Ray, CA							
Project Contact Willie Parish							
Sample ID	Purge Number	Purge Volume	Date	Sample Collection Time	Sample Analysis Time	Laboratory Sample Number	Sample Matrix: Soil (S), Sludge (SL), Aqueous (A), Soil Gas (SG)
V-3-5'	3	3788	3/21	1108	1121	E-0074-12	SG X
V-2-4.8'			3/21	1111	1120		SG X
V-1-5'			3/21	1131	1138		SG X
V-4-5'	3	3788	3/21	1142	1154	E-0074-13	SG X
V-3-5'			3/21	1150	1156		SG X
V-13-5'	3	3788	3/21	1224	1231	E-0074-14	SG X
V-4-5'			3/21	1243	1249		SG X
V-13-5'			3/21	1305	1307		SG X
V-12-5'	3	3788	3/21	1314	1326	E-0074-15	SG X
V-12-5'			3/21	1345	1346		SG X
1. Relinquished by (signature) <i>[Signature]</i>		Date 3/21/14		2. Received by (signature) <i>[Signature]</i>		Date 3/21/14	
Company BEC		Time 1656		Company JEL		Time 1656	
3. Relinquished by (signature)		Date		4. Received by Laboratory (signature)		Date	
Company		Time		Company		Time	
The delivery of samples and the signature on this Chain of Custody form constitutes authorization to perform the analyses specified above under the Terms and Conditions set forth on the back hereof.							
Total Number of Containers 19							
Remarks/Special Instructions glass gastight syringe							
JEL Project # E-0074 Page 3 of 5 Lab Use Only Sample Condition as Received: Chilled ☐ yes ☒ no Sealed ☒ yes ☐ no							

Chain-of-Custody Record

Client Bouyer Environmental Consulting, Inc		Date 3/21/14		SOIL GAS						
Project Name Former Del Ray Cleaner		Client Project #		Purge Number: 21P ☒ 3P ☐ 7P ☐ 10P						
Project Address 316 Culver Drive		Turn Around Requested:		Purge Rate: 200 cc/min						
Project Contact Playa Del Ray, CA		☐ Immediate Attention ☐ Rush 24-48 Hours ☐ Rush 72-96 Hours ☐ Normal ☒ Mobile Lab		Tracer: ☒ n-propanol ☐ n-pentane ☐ 1,1-DFA ☐ Helium						
Sample ID		Purge Number	Purge Volume	Date	Sample Collection Time	Sample Analysis Time	Laboratory Sample Number	Sample Matrix: Soil (S), Sludge (SL), Aqueous (A), Soil Gas (SG)	Analysis Requested	Remarks/Special Instructions
V-20-4'	3	3772	3/21	1355	1402	E-0074-16	SG X	6	2	glass gastight syringe
V-19-4'	3	3772	3/21	1407	1420	E-0074-17	SG X	42	2	
V-20-4' D1C			3/21	1428	1440		SG X	42	1	
V-19-4' D1C			3/21	1447	1458		SG X	42	1	
V-16-5'	3	3788	3/21	1452	1456	E-0074-18	SG X	42	2	
V-14-5'	3	3788	3/21	1504	1514	E-0074-19	SG X	4	2	
V-14-5' REF	3	3788	3/21	1522	1531	E-0074-20	SG X	4	2	
V-18-4'	3	3772	3/21	1516	1517	E-0074-21	SG X	42	2	
V-17-5'	3	3788	3/21	1535	1536	E-0074-22	SG X	42	2	
V-16-5' D1C			3/21	1546	1552		SG X	42	1	
1 Relinquished by (signature)		2 Received by (signature)		Date		Date		Total Number of Containers		
Company		Company		Date		Date				
3 Relinquished by (signature)		4 Received by Laboratory (signature)		Date		Date				
Company		Company		Time		Time				

The delivery of samples and the signature on this Chain of Custody form constitutes authorization to perform the analyses specified above under the Terms and Conditions set forth on the back hereof.

JEL Project # **E-0074**

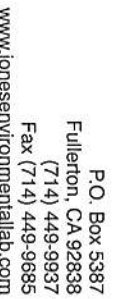
Page **4** of **5**

Lab Use Only

Sample Condition as Received:

Chilled ☐ yes ☒ no

Sealed ☒ yes ☐ no



Chain-of-Custody Record

Client				Date				SOIL GAS				JEL Project #			
Bowyer Environmental Consulting, Inc				3/21/14								E-0074			
Project Name				Client Project #				Purge Number: ☐ 1P ☒ 3P ☐ 7P ☐ 10P				Analysis Requested			
Former Del Ray Cleaner								Purge Rate: $\frac{200}{cc/min}$							
Project Address				Turn Around Requested:				Tracer:							
310 Culver Drive				☐ Immediate Attention ☐ Rush 24-48 Hours ☐ Rush 72-96 Hours				☒ n-propanol ☐ n-pentane ☐ 1,1-DFA ☐ Helium							
Playa Del Ray, CA				☐ Normal ☒ Mobile Lab											
Project Contact															
Willy Perish															
Sample ID	Purge Number	Purge Volume	Date	Sample Collection Time	Sample Analysis Time	Laboratory Sample Number	Sample Matrix: Soil (S), Sludge (SL), Aqueous (A), Soil Gas (SG)	Magnetohelic	Vacuum (In/H ₂ O)	Number of Containers	Remarks/Special Instructions				
V-14-5' DIL			3/21	1542	1550		SG X			4	1 glass gas tight syringe				
V-14-5' PER DIL			3/21	1548	1607		SG X			4	1				
V-18-4' DIL			3/21	1554	1611		SG X			2	1				
V-17-5' DIL			3/21	1611	1627		SG X			2	1				
V-15-5'	3	3788	3/21	1614	1625		E-0074-23 SG X			2	2				
V-15-5' DIL			3/21	1629	1644		SG X			2	1				
Total Number of Containers															
The delivery of samples and the signature on this Chain of Custody form constitutes authorization to perform the analyses specified above under the Terms and Conditions set forth on the back hereof.															



March 25, 2014

Brett Bowyer
Bowyer Environmental Consulting
17011 Beach Blvd., Suite 900
Huntington Beach, CA 92647
Tel: (877) 232-4620
Fax: (714) 840-4963

ELAP No.: 1838
CSDLAC No.: 10196
ORELAP No.: CA300003
TCEQ No.: T104704502

Re: ATL Work Order Number : 1400813
Client Reference : Del Rey Cleaners, 170101

Enclosed are the results for sample(s) received on March 17, 2014 by Advanced Technology Laboratories. The sample(s) are tested for the parameters as indicated on the enclosed chain of custody in accordance with applicable laboratory certifications. The laboratory results contained in this report specifically pertains to the sample(s) submitted.

Thank you for the opportunity to serve the needs of your company. If you have any questions, please feel free to contact me or your Project Manager.

Sincerely,

A handwritten signature in black ink, appearing to read "Eddie Rodriguez", with a stylized, cursive script.

Eddie Rodriguez
Laboratory Director

The cover letter and the case narrative are an integral part of this analytical report and its absence renders the report invalid. Test results contained within this data package meet the requirements of applicable state-specific certification programs. The report cannot be reproduced without written permission from the client and Advanced Technology Laboratories.

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www.atlglobal.com



Certificate of Analysis

Bowyer Environmental Consulting

17011 Beach Blvd., Suite 900

Huntington Beach, CA 92647

Project Number : Del Rey Cleaners, 170101

Report To : Brett Bowyer

Reported : 03/25/2014

SUMMARY OF SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
V-1-5-5.5	1400813-01	Soil	3/17/14 8:25	3/17/14 15:22
V-2-4.5-5	1400813-02	Soil	3/17/14 8:00	3/17/14 15:22
V-3-5-5.5	1400813-03	Soil	3/17/14 8:40	3/17/14 15:22
V-5-4.5-5	1400813-04	Soil	3/17/14 10:05	3/17/14 15:22
V-6-4.5-5	1400813-05	Soil	3/17/14 11:01	3/17/14 15:22
V-7-1.5-2	1400813-06	Soil	3/17/14 9:00	3/17/14 15:22
V-8-4.5-5	1400813-07	Soil	3/17/14 11:36	3/17/14 15:22
V-9-5-5.5	1400813-08	Soil	3/17/14 9:47	3/17/14 15:22
V-10-5-5.5	1400813-09	Soil	3/17/14 10:22	3/17/14 15:22
V-11-4.5-5	1400813-10	Soil	3/17/14 11:16	3/17/14 15:22
V-17-4-4.5	1400813-11	Soil	3/17/14 13:50	3/17/14 15:22
V-18-4-4.5	1400813-12	Soil	3/17/14 13:26	3/17/14 15:22
V-19-4-4.5	1400813-13	Soil	3/17/14 13:12	3/17/14 15:22
V-20-4.5-5	1400813-14	Soil	3/17/14 12:52	3/17/14 15:22

CASE NARRATIVE

All volatile analyses were performed using 5035 preservation requirements. Any high level dilutions were performed on a preserved methanol sample unless otherwise noted.



Certificate of Analysis

Bowyer Environmental Consulting

17011 Beach Blvd., Suite 900

Huntington Beach, CA 92647

Project Number : Del Rey Cleaners, 170101

Report To : Brett Bowyer

Reported : 03/25/2014

Client Sample ID V-1-5-5.5

Lab ID: 1400813-01

Volatile Organic Compounds by EPA 5035/EPA 8260B

Analyst: BD

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	4.4	NA	1	B4C0363	03/18/2014	03/18/14 17:58	
1,1,1-Trichloroethane	ND	4.4	NA	1	B4C0363	03/18/2014	03/18/14 17:58	
1,1,2,2-Tetrachloroethane	ND	4.4	NA	1	B4C0363	03/18/2014	03/18/14 17:58	
1,1,2-Trichloroethane	ND	4.4	NA	1	B4C0363	03/18/2014	03/18/14 17:58	
1,1-Dichloroethane	ND	4.4	NA	1	B4C0363	03/18/2014	03/18/14 17:58	
1,1-Dichloroethene	ND	4.4	NA	1	B4C0363	03/18/2014	03/18/14 17:58	
1,1-Dichloropropene	ND	4.4	NA	1	B4C0363	03/18/2014	03/18/14 17:58	
1,2,3-Trichloropropane	ND	4.4	NA	1	B4C0363	03/18/2014	03/18/14 17:58	
1,2,3-Trichlorobenzene	ND	4.4	NA	1	B4C0363	03/18/2014	03/18/14 17:58	
1,2,4-Trichlorobenzene	ND	4.4	NA	1	B4C0363	03/18/2014	03/18/14 17:58	
1,2,4-Trimethylbenzene	ND	4.4	NA	1	B4C0363	03/18/2014	03/18/14 17:58	
1,2-Dibromo-3-chloropropane	ND	8.8	NA	1	B4C0363	03/18/2014	03/18/14 17:58	
1,2-Dibromoethane	ND	4.4	NA	1	B4C0363	03/18/2014	03/18/14 17:58	
1,2-Dichlorobenzene	ND	4.4	NA	1	B4C0363	03/18/2014	03/18/14 17:58	
1,2-Dichloroethane	ND	4.4	NA	1	B4C0363	03/18/2014	03/18/14 17:58	
1,2-Dichloropropane	ND	4.4	NA	1	B4C0363	03/18/2014	03/18/14 17:58	
1,3,5-Trimethylbenzene	ND	4.4	NA	1	B4C0363	03/18/2014	03/18/14 17:58	
1,3-Dichlorobenzene	ND	4.4	NA	1	B4C0363	03/18/2014	03/18/14 17:58	
1,3-Dichloropropane	ND	4.4	NA	1	B4C0363	03/18/2014	03/18/14 17:58	
1,4-Dichlorobenzene	ND	4.4	NA	1	B4C0363	03/18/2014	03/18/14 17:58	
2,2-Dichloropropane	ND	4.4	NA	1	B4C0363	03/18/2014	03/18/14 17:58	
2-Chlorotoluene	ND	4.4	NA	1	B4C0363	03/18/2014	03/18/14 17:58	
4-Chlorotoluene	ND	4.4	NA	1	B4C0363	03/18/2014	03/18/14 17:58	
4-Isopropyltoluene	ND	4.4	NA	1	B4C0363	03/18/2014	03/18/14 17:58	
Benzene	ND	4.4	NA	1	B4C0363	03/18/2014	03/18/14 17:58	
Bromobenzene	ND	4.4	NA	1	B4C0363	03/18/2014	03/18/14 17:58	
Bromochloromethane	ND	4.4	NA	1	B4C0363	03/18/2014	03/18/14 17:58	
Bromodichloromethane	ND	4.4	NA	1	B4C0363	03/18/2014	03/18/14 17:58	
Bromoform	ND	4.4	NA	1	B4C0363	03/18/2014	03/18/14 17:58	
Bromomethane	ND	4.4	NA	1	B4C0363	03/18/2014	03/18/14 17:58	
Carbon disulfide	ND	4.4	NA	1	B4C0363	03/18/2014	03/18/14 17:58	
Carbon tetrachloride	ND	4.4	NA	1	B4C0363	03/18/2014	03/18/14 17:58	
Chlorobenzene	ND	4.4	NA	1	B4C0363	03/18/2014	03/18/14 17:58	
Chloroethane	ND	4.4	NA	1	B4C0363	03/18/2014	03/18/14 17:58	
Chloroform	ND	4.4	NA	1	B4C0363	03/18/2014	03/18/14 17:58	
Chloromethane	ND	4.4	NA	1	B4C0363	03/18/2014	03/18/14 17:58	



Certificate of Analysis

Bowyer Environmental Consulting
17011 Beach Blvd., Suite 900
Huntington Beach, CA 92647

Project Number : Del Rey Cleaners, 170101

Report To : Brett Bowyer

Reported : 03/25/2014

Client Sample ID V-1-5-5.5

Lab ID: 1400813-01

Volatile Organic Compounds by EPA 5035/EPA 8260B

Analyst: BD

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
cis-1,2-Dichloroethene	ND	4.4	NA	1	B4C0363	03/18/2014	03/18/14 17:58	
cis-1,3-Dichloropropene	ND	4.4	NA	1	B4C0363	03/18/2014	03/18/14 17:58	
Di-isopropyl ether	ND	4.4	NA	1	B4C0363	03/18/2014	03/18/14 17:58	
Dibromochloromethane	ND	4.4	NA	1	B4C0363	03/18/2014	03/18/14 17:58	
Dibromomethane	ND	4.4	NA	1	B4C0363	03/18/2014	03/18/14 17:58	
Dichlorodifluoromethane	ND	4.4	NA	1	B4C0363	03/18/2014	03/18/14 17:58	
Ethyl Acetate	ND	44	NA	1	B4C0363	03/18/2014	03/18/14 17:58	
Ethyl Ether	ND	44	NA	1	B4C0363	03/18/2014	03/18/14 17:58	
Ethyl tert-butyl ether	ND	4.4	NA	1	B4C0363	03/18/2014	03/18/14 17:58	
Ethylbenzene	ND	4.4	NA	1	B4C0363	03/18/2014	03/18/14 17:58	
Freon-113	ND	4.4	NA	1	B4C0363	03/18/2014	03/18/14 17:58	
Hexachlorobutadiene	ND	4.4	NA	1	B4C0363	03/18/2014	03/18/14 17:58	
Isopropylbenzene	ND	4.4	NA	1	B4C0363	03/18/2014	03/18/14 17:58	
m,p-Xylene	ND	8.8	NA	1	B4C0363	03/18/2014	03/18/14 17:58	
Methylene chloride	ND	4.4	NA	1	B4C0363	03/18/2014	03/18/14 17:58	
MTBE	ND	4.4	NA	1	B4C0363	03/18/2014	03/18/14 17:58	
n-Butylbenzene	ND	4.4	NA	1	B4C0363	03/18/2014	03/18/14 17:58	
n-Propylbenzene	ND	4.4	NA	1	B4C0363	03/18/2014	03/18/14 17:58	
Naphthalene	ND	4.4	NA	1	B4C0363	03/18/2014	03/18/14 17:58	
o-Xylene	ND	4.4	NA	1	B4C0363	03/18/2014	03/18/14 17:58	
sec-Butylbenzene	ND	4.4	NA	1	B4C0363	03/18/2014	03/18/14 17:58	
Styrene	ND	4.4	NA	1	B4C0363	03/18/2014	03/18/14 17:58	
tert-Amyl methyl ether	ND	4.4	NA	1	B4C0363	03/18/2014	03/18/14 17:58	
tert-Butanol	ND	88	NA	1	B4C0363	03/18/2014	03/18/14 17:58	
tert-Butylbenzene	ND	4.4	NA	1	B4C0363	03/18/2014	03/18/14 17:58	
Tetrachloroethene	9.1	4.4	NA	1	B4C0363	03/18/2014	03/18/14 17:58	
Toluene	ND	4.4	NA	1	B4C0363	03/18/2014	03/18/14 17:58	
trans-1,2-Dichloroethene	ND	4.4	NA	1	B4C0363	03/18/2014	03/18/14 17:58	
trans-1,3-Dichloropropene	ND	4.4	NA	1	B4C0363	03/18/2014	03/18/14 17:58	
Trichloroethene	ND	4.4	NA	1	B4C0363	03/18/2014	03/18/14 17:58	
Trichlorofluoromethane	ND	4.4	NA	1	B4C0363	03/18/2014	03/18/14 17:58	
Vinyl acetate	ND	44	NA	1	B4C0363	03/18/2014	03/18/14 17:58	
Vinyl chloride	ND	4.4	NA	1	B4C0363	03/18/2014	03/18/14 17:58	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>150 %</i>	<i>63 - 167</i>			B4C0363	03/18/2014	<i>03/18/14 17:58</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>99.1 %</i>	<i>63 - 130</i>			B4C0363	03/18/2014	<i>03/18/14 17:58</i>	
<i>Surrogate: Dibromofluoromethane</i>	<i>124 %</i>	<i>75 - 146</i>			B4C0363	03/18/2014	<i>03/18/14 17:58</i>	



Certificate of Analysis

Bowyer Environmental Consulting
17011 Beach Blvd., Suite 900
Huntington Beach, CA 92647

Project Number : Del Rey Cleaners, 170101
Report To : Brett Bowyer
Reported : 03/25/2014

Client Sample ID V-1-5-5.5

Lab ID: 1400813-01

Volatile Organic Compounds by EPA 5035/EPA 8260B

Analyst: BD

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
<i>Surrogate: Toluene-d8</i>	<i>104 %</i>		<i>78 - 125</i>		B4C0363	03/18/2014	<i>03/18/14 17:58</i>	



Certificate of Analysis

Bowyer Environmental Consulting

17011 Beach Blvd., Suite 900

Huntington Beach, CA 92647

Project Number : Del Rey Cleaners, 170101

Report To : Brett Bowyer

Reported : 03/25/2014

Client Sample ID V-2-4.5-5

Lab ID: 1400813-02

Volatile Organic Compounds by EPA 5035/EPA 8260B

Analyst: BD

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	4.0	NA	1	B4C0363	03/18/2014	03/18/14 18:17	
1,1,1-Trichloroethane	ND	4.0	NA	1	B4C0363	03/18/2014	03/18/14 18:17	
1,1,2,2-Tetrachloroethane	ND	4.0	NA	1	B4C0363	03/18/2014	03/18/14 18:17	
1,1,2-Trichloroethane	ND	4.0	NA	1	B4C0363	03/18/2014	03/18/14 18:17	
1,1-Dichloroethane	ND	4.0	NA	1	B4C0363	03/18/2014	03/18/14 18:17	
1,1-Dichloroethene	ND	4.0	NA	1	B4C0363	03/18/2014	03/18/14 18:17	
1,1-Dichloropropene	ND	4.0	NA	1	B4C0363	03/18/2014	03/18/14 18:17	
1,2,3-Trichloropropane	ND	4.0	NA	1	B4C0363	03/18/2014	03/18/14 18:17	
1,2,3-Trichlorobenzene	ND	4.0	NA	1	B4C0363	03/18/2014	03/18/14 18:17	
1,2,4-Trichlorobenzene	ND	4.0	NA	1	B4C0363	03/18/2014	03/18/14 18:17	
1,2,4-Trimethylbenzene	ND	4.0	NA	1	B4C0363	03/18/2014	03/18/14 18:17	
1,2-Dibromo-3-chloropropane	ND	8.0	NA	1	B4C0363	03/18/2014	03/18/14 18:17	
1,2-Dibromoethane	ND	4.0	NA	1	B4C0363	03/18/2014	03/18/14 18:17	
1,2-Dichlorobenzene	ND	4.0	NA	1	B4C0363	03/18/2014	03/18/14 18:17	
1,2-Dichloroethane	ND	4.0	NA	1	B4C0363	03/18/2014	03/18/14 18:17	
1,2-Dichloropropane	ND	4.0	NA	1	B4C0363	03/18/2014	03/18/14 18:17	
1,3,5-Trimethylbenzene	ND	4.0	NA	1	B4C0363	03/18/2014	03/18/14 18:17	
1,3-Dichlorobenzene	ND	4.0	NA	1	B4C0363	03/18/2014	03/18/14 18:17	
1,3-Dichloropropane	ND	4.0	NA	1	B4C0363	03/18/2014	03/18/14 18:17	
1,4-Dichlorobenzene	ND	4.0	NA	1	B4C0363	03/18/2014	03/18/14 18:17	
2,2-Dichloropropane	ND	4.0	NA	1	B4C0363	03/18/2014	03/18/14 18:17	
2-Chlorotoluene	ND	4.0	NA	1	B4C0363	03/18/2014	03/18/14 18:17	
4-Chlorotoluene	ND	4.0	NA	1	B4C0363	03/18/2014	03/18/14 18:17	
4-Isopropyltoluene	ND	4.0	NA	1	B4C0363	03/18/2014	03/18/14 18:17	
Benzene	ND	4.0	NA	1	B4C0363	03/18/2014	03/18/14 18:17	
Bromobenzene	ND	4.0	NA	1	B4C0363	03/18/2014	03/18/14 18:17	
Bromochloromethane	ND	4.0	NA	1	B4C0363	03/18/2014	03/18/14 18:17	
Bromodichloromethane	ND	4.0	NA	1	B4C0363	03/18/2014	03/18/14 18:17	
Bromoform	ND	4.0	NA	1	B4C0363	03/18/2014	03/18/14 18:17	
Bromomethane	ND	4.0	NA	1	B4C0363	03/18/2014	03/18/14 18:17	
Carbon disulfide	ND	4.0	NA	1	B4C0363	03/18/2014	03/18/14 18:17	
Carbon tetrachloride	ND	4.0	NA	1	B4C0363	03/18/2014	03/18/14 18:17	
Chlorobenzene	ND	4.0	NA	1	B4C0363	03/18/2014	03/18/14 18:17	
Chloroethane	ND	4.0	NA	1	B4C0363	03/18/2014	03/18/14 18:17	
Chloroform	ND	4.0	NA	1	B4C0363	03/18/2014	03/18/14 18:17	
Chloromethane	ND	4.0	NA	1	B4C0363	03/18/2014	03/18/14 18:17	



Certificate of Analysis

Bowyer Environmental Consulting
17011 Beach Blvd., Suite 900
Huntington Beach, CA 92647

Project Number : Del Rey Cleaners, 170101

Report To : Brett Bowyer

Reported : 03/25/2014

Client Sample ID V-2-4.5-5

Lab ID: 1400813-02

Volatile Organic Compounds by EPA 5035/EPA 8260B

Analyst: BD

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
cis-1,2-Dichloroethene	ND	4.0	NA	1	B4C0363	03/18/2014	03/18/14 18:17	
cis-1,3-Dichloropropene	ND	4.0	NA	1	B4C0363	03/18/2014	03/18/14 18:17	
Di-isopropyl ether	ND	4.0	NA	1	B4C0363	03/18/2014	03/18/14 18:17	
Dibromochloromethane	ND	4.0	NA	1	B4C0363	03/18/2014	03/18/14 18:17	
Dibromomethane	ND	4.0	NA	1	B4C0363	03/18/2014	03/18/14 18:17	
Dichlorodifluoromethane	ND	4.0	NA	1	B4C0363	03/18/2014	03/18/14 18:17	
Ethyl Acetate	ND	40	NA	1	B4C0363	03/18/2014	03/18/14 18:17	
Ethyl Ether	ND	40	NA	1	B4C0363	03/18/2014	03/18/14 18:17	
Ethyl tert-butyl ether	ND	4.0	NA	1	B4C0363	03/18/2014	03/18/14 18:17	
Ethylbenzene	ND	4.0	NA	1	B4C0363	03/18/2014	03/18/14 18:17	
Freon-113	ND	4.0	NA	1	B4C0363	03/18/2014	03/18/14 18:17	
Hexachlorobutadiene	ND	4.0	NA	1	B4C0363	03/18/2014	03/18/14 18:17	
Isopropylbenzene	ND	4.0	NA	1	B4C0363	03/18/2014	03/18/14 18:17	
m,p-Xylene	ND	8.0	NA	1	B4C0363	03/18/2014	03/18/14 18:17	
Methylene chloride	ND	4.0	NA	1	B4C0363	03/18/2014	03/18/14 18:17	
MTBE	ND	4.0	NA	1	B4C0363	03/18/2014	03/18/14 18:17	
n-Butylbenzene	ND	4.0	NA	1	B4C0363	03/18/2014	03/18/14 18:17	
n-Propylbenzene	ND	4.0	NA	1	B4C0363	03/18/2014	03/18/14 18:17	
Naphthalene	ND	4.0	NA	1	B4C0363	03/18/2014	03/18/14 18:17	
o-Xylene	ND	4.0	NA	1	B4C0363	03/18/2014	03/18/14 18:17	
sec-Butylbenzene	ND	4.0	NA	1	B4C0363	03/18/2014	03/18/14 18:17	
Styrene	ND	4.0	NA	1	B4C0363	03/18/2014	03/18/14 18:17	
tert-Amyl methyl ether	ND	4.0	NA	1	B4C0363	03/18/2014	03/18/14 18:17	
tert-Butanol	ND	80	NA	1	B4C0363	03/18/2014	03/18/14 18:17	
tert-Butylbenzene	ND	4.0	NA	1	B4C0363	03/18/2014	03/18/14 18:17	
Tetrachloroethene	ND	4.0	NA	1	B4C0363	03/18/2014	03/18/14 18:17	
Toluene	ND	4.0	NA	1	B4C0363	03/18/2014	03/18/14 18:17	
trans-1,2-Dichloroethene	ND	4.0	NA	1	B4C0363	03/18/2014	03/18/14 18:17	
trans-1,3-Dichloropropene	ND	4.0	NA	1	B4C0363	03/18/2014	03/18/14 18:17	
Trichloroethene	ND	4.0	NA	1	B4C0363	03/18/2014	03/18/14 18:17	
Trichlorofluoromethane	ND	4.0	NA	1	B4C0363	03/18/2014	03/18/14 18:17	
Vinyl acetate	ND	40	NA	1	B4C0363	03/18/2014	03/18/14 18:17	
Vinyl chloride	ND	4.0	NA	1	B4C0363	03/18/2014	03/18/14 18:17	
Surrogate: 1,2-Dichloroethane-d4	138 %	63 - 167			B4C0363	03/18/2014	03/18/14 18:17	
Surrogate: 4-Bromofluorobenzene	95.7 %	63 - 130			B4C0363	03/18/2014	03/18/14 18:17	
Surrogate: Dibromofluoromethane	119 %	75 - 146			B4C0363	03/18/2014	03/18/14 18:17	



Certificate of Analysis

Bowyer Environmental Consulting
17011 Beach Blvd., Suite 900
Huntington Beach, CA 92647

Project Number : Del Rey Cleaners, 170101
Report To : Brett Bowyer
Reported : 03/25/2014

Client Sample ID V-2-4.5-5

Lab ID: 1400813-02

Volatile Organic Compounds by EPA 5035/EPA 8260B

Analyst: BD

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Surrogate: Toluene-d8	102 %		78 - 125		B4C0363	03/18/2014	03/18/14 18:17	



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Bowyer Environmental Consulting
17011 Beach Blvd., Suite 900
Huntington Beach, CA 92647

Project Number : Del Rey Cleaners, 170101

Report To : Brett Bowyer

Reported : 03/25/2014

Client Sample ID V-3-5-5.5

Lab ID: 1400813-03

Volatile Organic Compounds by EPA 5035/EPA 8260B

Analyst: BD

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	4.2	NA	1	B4C0363	03/18/2014	03/18/14 18:35	
1,1,1-Trichloroethane	ND	4.2	NA	1	B4C0363	03/18/2014	03/18/14 18:35	
1,1,2,2-Tetrachloroethane	ND	4.2	NA	1	B4C0363	03/18/2014	03/18/14 18:35	
1,1,2-Trichloroethane	ND	4.2	NA	1	B4C0363	03/18/2014	03/18/14 18:35	
1,1-Dichloroethane	ND	4.2	NA	1	B4C0363	03/18/2014	03/18/14 18:35	
1,1-Dichloroethene	ND	4.2	NA	1	B4C0363	03/18/2014	03/18/14 18:35	
1,1-Dichloropropene	ND	4.2	NA	1	B4C0363	03/18/2014	03/18/14 18:35	
1,2,3-Trichloropropane	ND	4.2	NA	1	B4C0363	03/18/2014	03/18/14 18:35	
1,2,3-Trichlorobenzene	ND	4.2	NA	1	B4C0363	03/18/2014	03/18/14 18:35	
1,2,4-Trichlorobenzene	ND	4.2	NA	1	B4C0363	03/18/2014	03/18/14 18:35	
1,2,4-Trimethylbenzene	ND	4.2	NA	1	B4C0363	03/18/2014	03/18/14 18:35	
1,2-Dibromo-3-chloropropane	ND	8.4	NA	1	B4C0363	03/18/2014	03/18/14 18:35	
1,2-Dibromoethane	ND	4.2	NA	1	B4C0363	03/18/2014	03/18/14 18:35	
1,2-Dichlorobenzene	ND	4.2	NA	1	B4C0363	03/18/2014	03/18/14 18:35	
1,2-Dichloroethane	ND	4.2	NA	1	B4C0363	03/18/2014	03/18/14 18:35	
1,2-Dichloropropane	ND	4.2	NA	1	B4C0363	03/18/2014	03/18/14 18:35	
1,3,5-Trimethylbenzene	ND	4.2	NA	1	B4C0363	03/18/2014	03/18/14 18:35	
1,3-Dichlorobenzene	ND	4.2	NA	1	B4C0363	03/18/2014	03/18/14 18:35	
1,3-Dichloropropane	ND	4.2	NA	1	B4C0363	03/18/2014	03/18/14 18:35	
1,4-Dichlorobenzene	ND	4.2	NA	1	B4C0363	03/18/2014	03/18/14 18:35	
2,2-Dichloropropane	ND	4.2	NA	1	B4C0363	03/18/2014	03/18/14 18:35	
2-Chlorotoluene	ND	4.2	NA	1	B4C0363	03/18/2014	03/18/14 18:35	
4-Chlorotoluene	ND	4.2	NA	1	B4C0363	03/18/2014	03/18/14 18:35	
4-Isopropyltoluene	ND	4.2	NA	1	B4C0363	03/18/2014	03/18/14 18:35	
Benzene	ND	4.2	NA	1	B4C0363	03/18/2014	03/18/14 18:35	
Bromobenzene	ND	4.2	NA	1	B4C0363	03/18/2014	03/18/14 18:35	
Bromochloromethane	ND	4.2	NA	1	B4C0363	03/18/2014	03/18/14 18:35	
Bromodichloromethane	ND	4.2	NA	1	B4C0363	03/18/2014	03/18/14 18:35	
Bromoform	ND	4.2	NA	1	B4C0363	03/18/2014	03/18/14 18:35	
Bromomethane	ND	4.2	NA	1	B4C0363	03/18/2014	03/18/14 18:35	
Carbon disulfide	ND	4.2	NA	1	B4C0363	03/18/2014	03/18/14 18:35	
Carbon tetrachloride	ND	4.2	NA	1	B4C0363	03/18/2014	03/18/14 18:35	
Chlorobenzene	ND	4.2	NA	1	B4C0363	03/18/2014	03/18/14 18:35	
Chloroethane	ND	4.2	NA	1	B4C0363	03/18/2014	03/18/14 18:35	
Chloroform	ND	4.2	NA	1	B4C0363	03/18/2014	03/18/14 18:35	
Chloromethane	ND	4.2	NA	1	B4C0363	03/18/2014	03/18/14 18:35	



Certificate of Analysis

Bowyer Environmental Consulting
17011 Beach Blvd., Suite 900
Huntington Beach, CA 92647

Project Number : Del Rey Cleaners, 170101

Report To : Brett Bowyer

Reported : 03/25/2014

Client Sample ID V-3-5-5.5

Lab ID: 1400813-03

Volatile Organic Compounds by EPA 5035/EPA 8260B

Analyst: BD

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
cis-1,2-Dichloroethene	ND	4.2	NA	1	B4C0363	03/18/2014	03/18/14 18:35	
cis-1,3-Dichloropropene	ND	4.2	NA	1	B4C0363	03/18/2014	03/18/14 18:35	
Di-isopropyl ether	ND	4.2	NA	1	B4C0363	03/18/2014	03/18/14 18:35	
Dibromochloromethane	ND	4.2	NA	1	B4C0363	03/18/2014	03/18/14 18:35	
Dibromomethane	ND	4.2	NA	1	B4C0363	03/18/2014	03/18/14 18:35	
Dichlorodifluoromethane	ND	4.2	NA	1	B4C0363	03/18/2014	03/18/14 18:35	
Ethyl Acetate	ND	42	NA	1	B4C0363	03/18/2014	03/18/14 18:35	
Ethyl Ether	ND	42	NA	1	B4C0363	03/18/2014	03/18/14 18:35	
Ethyl tert-butyl ether	ND	4.2	NA	1	B4C0363	03/18/2014	03/18/14 18:35	
Ethylbenzene	ND	4.2	NA	1	B4C0363	03/18/2014	03/18/14 18:35	
Freon-113	ND	4.2	NA	1	B4C0363	03/18/2014	03/18/14 18:35	
Hexachlorobutadiene	ND	4.2	NA	1	B4C0363	03/18/2014	03/18/14 18:35	
Isopropylbenzene	ND	4.2	NA	1	B4C0363	03/18/2014	03/18/14 18:35	
m,p-Xylene	ND	8.4	NA	1	B4C0363	03/18/2014	03/18/14 18:35	
Methylene chloride	ND	4.2	NA	1	B4C0363	03/18/2014	03/18/14 18:35	
MTBE	ND	4.2	NA	1	B4C0363	03/18/2014	03/18/14 18:35	
n-Butylbenzene	ND	4.2	NA	1	B4C0363	03/18/2014	03/18/14 18:35	
n-Propylbenzene	ND	4.2	NA	1	B4C0363	03/18/2014	03/18/14 18:35	
Naphthalene	ND	4.2	NA	1	B4C0363	03/18/2014	03/18/14 18:35	
o-Xylene	ND	4.2	NA	1	B4C0363	03/18/2014	03/18/14 18:35	
sec-Butylbenzene	ND	4.2	NA	1	B4C0363	03/18/2014	03/18/14 18:35	
Styrene	ND	4.2	NA	1	B4C0363	03/18/2014	03/18/14 18:35	
tert-Amyl methyl ether	ND	4.2	NA	1	B4C0363	03/18/2014	03/18/14 18:35	
tert-Butanol	ND	84	NA	1	B4C0363	03/18/2014	03/18/14 18:35	
tert-Butylbenzene	ND	4.2	NA	1	B4C0363	03/18/2014	03/18/14 18:35	
Tetrachloroethene	9.0	4.2	NA	1	B4C0363	03/18/2014	03/18/14 18:35	
Toluene	ND	4.2	NA	1	B4C0363	03/18/2014	03/18/14 18:35	
trans-1,2-Dichloroethene	ND	4.2	NA	1	B4C0363	03/18/2014	03/18/14 18:35	
trans-1,3-Dichloropropene	ND	4.2	NA	1	B4C0363	03/18/2014	03/18/14 18:35	
Trichloroethene	ND	4.2	NA	1	B4C0363	03/18/2014	03/18/14 18:35	
Trichlorofluoromethane	ND	4.2	NA	1	B4C0363	03/18/2014	03/18/14 18:35	
Vinyl acetate	ND	42	NA	1	B4C0363	03/18/2014	03/18/14 18:35	
Vinyl chloride	ND	4.2	NA	1	B4C0363	03/18/2014	03/18/14 18:35	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>138 %</i>	<i>63 - 167</i>			B4C0363	03/18/2014	<i>03/18/14 18:35</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>95.3 %</i>	<i>63 - 130</i>			B4C0363	03/18/2014	<i>03/18/14 18:35</i>	
<i>Surrogate: Dibromofluoromethane</i>	<i>119 %</i>	<i>75 - 146</i>			B4C0363	03/18/2014	<i>03/18/14 18:35</i>	



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Bowyer Environmental Consulting
17011 Beach Blvd., Suite 900
Huntington Beach, CA 92647

Project Number : Del Rey Cleaners, 170101
Report To : Brett Bowyer
Reported : 03/25/2014

Client Sample ID V-3-5-5.5

Lab ID: 1400813-03

Volatile Organic Compounds by EPA 5035/EPA 8260B

Analyst: BD

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Surrogate: Toluene-d8	102 %		78 - 125		B4C0363	03/18/2014	03/18/14 18:35	



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17011 Beach Blvd., Suite 900

Huntington Beach, CA 92647

Project Number : Del Rey Cleaners, 170101

Report To : Brett Bowyer

Reported : 03/25/2014

Client Sample ID V-5-4.5-5

Lab ID: 1400813-04

Volatile Organic Compounds by EPA 5035/EPA 8260B

Analyst: BD

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	4.8	NA	1	B4C0363	03/18/2014	03/18/14 18:54	
1,1,1-Trichloroethane	ND	4.8	NA	1	B4C0363	03/18/2014	03/18/14 18:54	
1,1,2,2-Tetrachloroethane	ND	4.8	NA	1	B4C0363	03/18/2014	03/18/14 18:54	
1,1,2-Trichloroethane	ND	4.8	NA	1	B4C0363	03/18/2014	03/18/14 18:54	
1,1-Dichloroethane	ND	4.8	NA	1	B4C0363	03/18/2014	03/18/14 18:54	
1,1-Dichloroethene	ND	4.8	NA	1	B4C0363	03/18/2014	03/18/14 18:54	
1,1-Dichloropropene	ND	4.8	NA	1	B4C0363	03/18/2014	03/18/14 18:54	
1,2,3-Trichloropropane	ND	4.8	NA	1	B4C0363	03/18/2014	03/18/14 18:54	
1,2,3-Trichlorobenzene	ND	4.8	NA	1	B4C0363	03/18/2014	03/18/14 18:54	
1,2,4-Trichlorobenzene	ND	4.8	NA	1	B4C0363	03/18/2014	03/18/14 18:54	
1,2,4-Trimethylbenzene	ND	4.8	NA	1	B4C0363	03/18/2014	03/18/14 18:54	
1,2-Dibromo-3-chloropropane	ND	9.6	NA	1	B4C0363	03/18/2014	03/18/14 18:54	
1,2-Dibromoethane	ND	4.8	NA	1	B4C0363	03/18/2014	03/18/14 18:54	
1,2-Dichlorobenzene	ND	4.8	NA	1	B4C0363	03/18/2014	03/18/14 18:54	
1,2-Dichloroethane	ND	4.8	NA	1	B4C0363	03/18/2014	03/18/14 18:54	
1,2-Dichloropropane	ND	4.8	NA	1	B4C0363	03/18/2014	03/18/14 18:54	
1,3,5-Trimethylbenzene	ND	4.8	NA	1	B4C0363	03/18/2014	03/18/14 18:54	
1,3-Dichlorobenzene	ND	4.8	NA	1	B4C0363	03/18/2014	03/18/14 18:54	
1,3-Dichloropropane	ND	4.8	NA	1	B4C0363	03/18/2014	03/18/14 18:54	
1,4-Dichlorobenzene	ND	4.8	NA	1	B4C0363	03/18/2014	03/18/14 18:54	
2,2-Dichloropropane	ND	4.8	NA	1	B4C0363	03/18/2014	03/18/14 18:54	
2-Chlorotoluene	ND	4.8	NA	1	B4C0363	03/18/2014	03/18/14 18:54	
4-Chlorotoluene	ND	4.8	NA	1	B4C0363	03/18/2014	03/18/14 18:54	
4-Isopropyltoluene	ND	4.8	NA	1	B4C0363	03/18/2014	03/18/14 18:54	
Benzene	ND	4.8	NA	1	B4C0363	03/18/2014	03/18/14 18:54	
Bromobenzene	ND	4.8	NA	1	B4C0363	03/18/2014	03/18/14 18:54	
Bromochloromethane	ND	4.8	NA	1	B4C0363	03/18/2014	03/18/14 18:54	
Bromodichloromethane	ND	4.8	NA	1	B4C0363	03/18/2014	03/18/14 18:54	
Bromoform	ND	4.8	NA	1	B4C0363	03/18/2014	03/18/14 18:54	
Bromomethane	ND	4.8	NA	1	B4C0363	03/18/2014	03/18/14 18:54	
Carbon disulfide	ND	4.8	NA	1	B4C0363	03/18/2014	03/18/14 18:54	
Carbon tetrachloride	ND	4.8	NA	1	B4C0363	03/18/2014	03/18/14 18:54	
Chlorobenzene	ND	4.8	NA	1	B4C0363	03/18/2014	03/18/14 18:54	
Chloroethane	ND	4.8	NA	1	B4C0363	03/18/2014	03/18/14 18:54	
Chloroform	ND	4.8	NA	1	B4C0363	03/18/2014	03/18/14 18:54	
Chloromethane	ND	4.8	NA	1	B4C0363	03/18/2014	03/18/14 18:54	



Certificate of Analysis

Bowyer Environmental Consulting
17011 Beach Blvd., Suite 900
Huntington Beach, CA 92647

Project Number : Del Rey Cleaners, 170101

Report To : Brett Bowyer

Reported : 03/25/2014

Client Sample ID V-5-4.5-5

Lab ID: 1400813-04

Volatile Organic Compounds by EPA 5035/EPA 8260B

Analyst: BD

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
cis-1,2-Dichloroethene	ND	4.8	NA	1	B4C0363	03/18/2014	03/18/14 18:54	
cis-1,3-Dichloropropene	ND	4.8	NA	1	B4C0363	03/18/2014	03/18/14 18:54	
Di-isopropyl ether	ND	4.8	NA	1	B4C0363	03/18/2014	03/18/14 18:54	
Dibromochloromethane	ND	4.8	NA	1	B4C0363	03/18/2014	03/18/14 18:54	
Dibromomethane	ND	4.8	NA	1	B4C0363	03/18/2014	03/18/14 18:54	
Dichlorodifluoromethane	ND	4.8	NA	1	B4C0363	03/18/2014	03/18/14 18:54	
Ethyl Acetate	ND	48	NA	1	B4C0363	03/18/2014	03/18/14 18:54	
Ethyl Ether	ND	48	NA	1	B4C0363	03/18/2014	03/18/14 18:54	
Ethyl tert-butyl ether	ND	4.8	NA	1	B4C0363	03/18/2014	03/18/14 18:54	
Ethylbenzene	ND	4.8	NA	1	B4C0363	03/18/2014	03/18/14 18:54	
Freon-113	ND	4.8	NA	1	B4C0363	03/18/2014	03/18/14 18:54	
Hexachlorobutadiene	ND	4.8	NA	1	B4C0363	03/18/2014	03/18/14 18:54	
Isopropylbenzene	ND	4.8	NA	1	B4C0363	03/18/2014	03/18/14 18:54	
m,p-Xylene	ND	9.6	NA	1	B4C0363	03/18/2014	03/18/14 18:54	
Methylene chloride	ND	4.8	NA	1	B4C0363	03/18/2014	03/18/14 18:54	
MTBE	ND	4.8	NA	1	B4C0363	03/18/2014	03/18/14 18:54	
n-Butylbenzene	ND	4.8	NA	1	B4C0363	03/18/2014	03/18/14 18:54	
n-Propylbenzene	ND	4.8	NA	1	B4C0363	03/18/2014	03/18/14 18:54	
Naphthalene	ND	4.8	NA	1	B4C0363	03/18/2014	03/18/14 18:54	
o-Xylene	ND	4.8	NA	1	B4C0363	03/18/2014	03/18/14 18:54	
sec-Butylbenzene	ND	4.8	NA	1	B4C0363	03/18/2014	03/18/14 18:54	
Styrene	ND	4.8	NA	1	B4C0363	03/18/2014	03/18/14 18:54	
tert-Amyl methyl ether	ND	4.8	NA	1	B4C0363	03/18/2014	03/18/14 18:54	
tert-Butanol	ND	96	NA	1	B4C0363	03/18/2014	03/18/14 18:54	
tert-Butylbenzene	ND	4.8	NA	1	B4C0363	03/18/2014	03/18/14 18:54	
Tetrachloroethene	110	4.8	NA	1	B4C0363	03/18/2014	03/18/14 18:54	
Toluene	ND	4.8	NA	1	B4C0363	03/18/2014	03/18/14 18:54	
trans-1,2-Dichloroethene	ND	4.8	NA	1	B4C0363	03/18/2014	03/18/14 18:54	
trans-1,3-Dichloropropene	ND	4.8	NA	1	B4C0363	03/18/2014	03/18/14 18:54	
Trichloroethene	ND	4.8	NA	1	B4C0363	03/18/2014	03/18/14 18:54	
Trichlorofluoromethane	ND	4.8	NA	1	B4C0363	03/18/2014	03/18/14 18:54	
Vinyl acetate	ND	48	NA	1	B4C0363	03/18/2014	03/18/14 18:54	
Vinyl chloride	ND	4.8	NA	1	B4C0363	03/18/2014	03/18/14 18:54	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>142 %</i>	<i>63 - 167</i>			B4C0363	03/18/2014	<i>03/18/14 18:54</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>94.0 %</i>	<i>63 - 130</i>			B4C0363	03/18/2014	<i>03/18/14 18:54</i>	
<i>Surrogate: Dibromofluoromethane</i>	<i>118 %</i>	<i>75 - 146</i>			B4C0363	03/18/2014	<i>03/18/14 18:54</i>	



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Bowyer Environmental Consulting
17011 Beach Blvd., Suite 900
Huntington Beach, CA 92647

Project Number : Del Rey Cleaners, 170101
Report To : Brett Bowyer
Reported : 03/25/2014

Client Sample ID V-5-4.5-5

Lab ID: 1400813-04

Volatile Organic Compounds by EPA 5035/EPA 8260B

Analyst: BD

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
<i>Surrogate: Toluene-d8</i>	<i>104 %</i>		<i>78 - 125</i>		B4C0363	03/18/2014	<i>03/18/14 18:54</i>	



Certificate of Analysis

Bowyer Environmental Consulting

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Huntington Beach, CA 92647

Project Number : Del Rey Cleaners, 170101

Report To : Brett Bowyer

Reported : 03/25/2014

Client Sample ID V-6-4.5-5

Lab ID: 1400813-05

Volatile Organic Compounds by EPA 5035/EPA 8260B

Analyst: BD

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	4.3	NA	1	B4C0363	03/18/2014	03/18/14 19:12	
1,1,1-Trichloroethane	ND	4.3	NA	1	B4C0363	03/18/2014	03/18/14 19:12	
1,1,2,2-Tetrachloroethane	ND	4.3	NA	1	B4C0363	03/18/2014	03/18/14 19:12	
1,1,2-Trichloroethane	ND	4.3	NA	1	B4C0363	03/18/2014	03/18/14 19:12	
1,1-Dichloroethane	ND	4.3	NA	1	B4C0363	03/18/2014	03/18/14 19:12	
1,1-Dichloroethene	ND	4.3	NA	1	B4C0363	03/18/2014	03/18/14 19:12	
1,1-Dichloropropene	ND	4.3	NA	1	B4C0363	03/18/2014	03/18/14 19:12	
1,2,3-Trichloropropane	ND	4.3	NA	1	B4C0363	03/18/2014	03/18/14 19:12	
1,2,3-Trichlorobenzene	ND	4.3	NA	1	B4C0363	03/18/2014	03/18/14 19:12	
1,2,4-Trichlorobenzene	ND	4.3	NA	1	B4C0363	03/18/2014	03/18/14 19:12	
1,2,4-Trimethylbenzene	ND	4.3	NA	1	B4C0363	03/18/2014	03/18/14 19:12	
1,2-Dibromo-3-chloropropane	ND	8.7	NA	1	B4C0363	03/18/2014	03/18/14 19:12	
1,2-Dibromoethane	ND	4.3	NA	1	B4C0363	03/18/2014	03/18/14 19:12	
1,2-Dichlorobenzene	ND	4.3	NA	1	B4C0363	03/18/2014	03/18/14 19:12	
1,2-Dichloroethane	ND	4.3	NA	1	B4C0363	03/18/2014	03/18/14 19:12	
1,2-Dichloropropane	ND	4.3	NA	1	B4C0363	03/18/2014	03/18/14 19:12	
1,3,5-Trimethylbenzene	ND	4.3	NA	1	B4C0363	03/18/2014	03/18/14 19:12	
1,3-Dichlorobenzene	ND	4.3	NA	1	B4C0363	03/18/2014	03/18/14 19:12	
1,3-Dichloropropane	ND	4.3	NA	1	B4C0363	03/18/2014	03/18/14 19:12	
1,4-Dichlorobenzene	ND	4.3	NA	1	B4C0363	03/18/2014	03/18/14 19:12	
2,2-Dichloropropane	ND	4.3	NA	1	B4C0363	03/18/2014	03/18/14 19:12	
2-Chlorotoluene	ND	4.3	NA	1	B4C0363	03/18/2014	03/18/14 19:12	
4-Chlorotoluene	ND	4.3	NA	1	B4C0363	03/18/2014	03/18/14 19:12	
4-Isopropyltoluene	ND	4.3	NA	1	B4C0363	03/18/2014	03/18/14 19:12	
Benzene	ND	4.3	NA	1	B4C0363	03/18/2014	03/18/14 19:12	
Bromobenzene	ND	4.3	NA	1	B4C0363	03/18/2014	03/18/14 19:12	
Bromochloromethane	ND	4.3	NA	1	B4C0363	03/18/2014	03/18/14 19:12	
Bromodichloromethane	ND	4.3	NA	1	B4C0363	03/18/2014	03/18/14 19:12	
Bromoform	ND	4.3	NA	1	B4C0363	03/18/2014	03/18/14 19:12	
Bromomethane	ND	4.3	NA	1	B4C0363	03/18/2014	03/18/14 19:12	
Carbon disulfide	ND	4.3	NA	1	B4C0363	03/18/2014	03/18/14 19:12	
Carbon tetrachloride	ND	4.3	NA	1	B4C0363	03/18/2014	03/18/14 19:12	
Chlorobenzene	ND	4.3	NA	1	B4C0363	03/18/2014	03/18/14 19:12	
Chloroethane	ND	4.3	NA	1	B4C0363	03/18/2014	03/18/14 19:12	
Chloroform	ND	4.3	NA	1	B4C0363	03/18/2014	03/18/14 19:12	
Chloromethane	ND	4.3	NA	1	B4C0363	03/18/2014	03/18/14 19:12	



Certificate of Analysis

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Reported : 03/25/2014

Client Sample ID V-6-4.5-5

Lab ID: 1400813-05

Volatile Organic Compounds by EPA 5035/EPA 8260B

Analyst: BD

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
cis-1,2-Dichloroethene	ND	4.3	NA	1	B4C0363	03/18/2014	03/18/14 19:12	
cis-1,3-Dichloropropene	ND	4.3	NA	1	B4C0363	03/18/2014	03/18/14 19:12	
Di-isopropyl ether	ND	4.3	NA	1	B4C0363	03/18/2014	03/18/14 19:12	
Dibromochloromethane	ND	4.3	NA	1	B4C0363	03/18/2014	03/18/14 19:12	
Dibromomethane	ND	4.3	NA	1	B4C0363	03/18/2014	03/18/14 19:12	
Dichlorodifluoromethane	ND	4.3	NA	1	B4C0363	03/18/2014	03/18/14 19:12	
Ethyl Acetate	ND	43	NA	1	B4C0363	03/18/2014	03/18/14 19:12	
Ethyl Ether	ND	43	NA	1	B4C0363	03/18/2014	03/18/14 19:12	
Ethyl tert-butyl ether	ND	4.3	NA	1	B4C0363	03/18/2014	03/18/14 19:12	
Ethylbenzene	ND	4.3	NA	1	B4C0363	03/18/2014	03/18/14 19:12	
Freon-113	ND	4.3	NA	1	B4C0363	03/18/2014	03/18/14 19:12	
Hexachlorobutadiene	ND	4.3	NA	1	B4C0363	03/18/2014	03/18/14 19:12	
Isopropylbenzene	ND	4.3	NA	1	B4C0363	03/18/2014	03/18/14 19:12	
m,p-Xylene	ND	8.7	NA	1	B4C0363	03/18/2014	03/18/14 19:12	
Methylene chloride	ND	4.3	NA	1	B4C0363	03/18/2014	03/18/14 19:12	
MTBE	ND	4.3	NA	1	B4C0363	03/18/2014	03/18/14 19:12	
n-Butylbenzene	ND	4.3	NA	1	B4C0363	03/18/2014	03/18/14 19:12	
n-Propylbenzene	ND	4.3	NA	1	B4C0363	03/18/2014	03/18/14 19:12	
Naphthalene	ND	4.3	NA	1	B4C0363	03/18/2014	03/18/14 19:12	
o-Xylene	ND	4.3	NA	1	B4C0363	03/18/2014	03/18/14 19:12	
sec-Butylbenzene	ND	4.3	NA	1	B4C0363	03/18/2014	03/18/14 19:12	
Styrene	ND	4.3	NA	1	B4C0363	03/18/2014	03/18/14 19:12	
tert-Amyl methyl ether	ND	4.3	NA	1	B4C0363	03/18/2014	03/18/14 19:12	
tert-Butanol	ND	87	NA	1	B4C0363	03/18/2014	03/18/14 19:12	
tert-Butylbenzene	ND	4.3	NA	1	B4C0363	03/18/2014	03/18/14 19:12	
Tetrachloroethene	19	4.3	NA	1	B4C0363	03/18/2014	03/18/14 19:12	
Toluene	ND	4.3	NA	1	B4C0363	03/18/2014	03/18/14 19:12	
trans-1,2-Dichloroethene	ND	4.3	NA	1	B4C0363	03/18/2014	03/18/14 19:12	
trans-1,3-Dichloropropene	ND	4.3	NA	1	B4C0363	03/18/2014	03/18/14 19:12	
Trichloroethene	ND	4.3	NA	1	B4C0363	03/18/2014	03/18/14 19:12	
Trichlorofluoromethane	ND	4.3	NA	1	B4C0363	03/18/2014	03/18/14 19:12	
Vinyl acetate	ND	43	NA	1	B4C0363	03/18/2014	03/18/14 19:12	
Vinyl chloride	ND	4.3	NA	1	B4C0363	03/18/2014	03/18/14 19:12	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>139 %</i>	<i>63 - 167</i>			B4C0363	03/18/2014	<i>03/18/14 19:12</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>96.2 %</i>	<i>63 - 130</i>			B4C0363	03/18/2014	<i>03/18/14 19:12</i>	
<i>Surrogate: Dibromofluoromethane</i>	<i>121 %</i>	<i>75 - 146</i>			B4C0363	03/18/2014	<i>03/18/14 19:12</i>	



Certificate of Analysis

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Huntington Beach, CA 92647

Project Number : Del Rey Cleaners, 170101
Report To : Brett Bowyer
Reported : 03/25/2014

Client Sample ID V-6-4.5-5

Lab ID: 1400813-05

Volatile Organic Compounds by EPA 5035/EPA 8260B

Analyst: BD

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Surrogate: Toluene-d8	103 %		78 - 125		B4C0363	03/18/2014	03/18/14 19:12	



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Huntington Beach, CA 92647

Project Number : Del Rey Cleaners, 170101

Report To : Brett Bowyer

Reported : 03/25/2014

Client Sample ID V-7-1.5-2

Lab ID: 1400813-06

Volatile Organic Compounds by EPA 5035/EPA 8260B

Analyst: BD

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	3.7	NA	1	B4C0363	03/18/2014	03/18/14 19:31	
1,1,1-Trichloroethane	ND	3.7	NA	1	B4C0363	03/18/2014	03/18/14 19:31	
1,1,2,2-Tetrachloroethane	ND	3.7	NA	1	B4C0363	03/18/2014	03/18/14 19:31	
1,1,2-Trichloroethane	ND	3.7	NA	1	B4C0363	03/18/2014	03/18/14 19:31	
1,1-Dichloroethane	ND	3.7	NA	1	B4C0363	03/18/2014	03/18/14 19:31	
1,1-Dichloroethene	ND	3.7	NA	1	B4C0363	03/18/2014	03/18/14 19:31	
1,1-Dichloropropene	ND	3.7	NA	1	B4C0363	03/18/2014	03/18/14 19:31	
1,2,3-Trichloropropane	ND	3.7	NA	1	B4C0363	03/18/2014	03/18/14 19:31	
1,2,3-Trichlorobenzene	ND	3.7	NA	1	B4C0363	03/18/2014	03/18/14 19:31	
1,2,4-Trichlorobenzene	ND	3.7	NA	1	B4C0363	03/18/2014	03/18/14 19:31	
1,2,4-Trimethylbenzene	ND	3.7	NA	1	B4C0363	03/18/2014	03/18/14 19:31	
1,2-Dibromo-3-chloropropane	ND	7.5	NA	1	B4C0363	03/18/2014	03/18/14 19:31	
1,2-Dibromoethane	ND	3.7	NA	1	B4C0363	03/18/2014	03/18/14 19:31	
1,2-Dichlorobenzene	ND	3.7	NA	1	B4C0363	03/18/2014	03/18/14 19:31	
1,2-Dichloroethane	ND	3.7	NA	1	B4C0363	03/18/2014	03/18/14 19:31	
1,2-Dichloropropane	ND	3.7	NA	1	B4C0363	03/18/2014	03/18/14 19:31	
1,3,5-Trimethylbenzene	ND	3.7	NA	1	B4C0363	03/18/2014	03/18/14 19:31	
1,3-Dichlorobenzene	ND	3.7	NA	1	B4C0363	03/18/2014	03/18/14 19:31	
1,3-Dichloropropane	ND	3.7	NA	1	B4C0363	03/18/2014	03/18/14 19:31	
1,4-Dichlorobenzene	4.0	3.7	NA	1	B4C0363	03/18/2014	03/18/14 19:31	
2,2-Dichloropropane	ND	3.7	NA	1	B4C0363	03/18/2014	03/18/14 19:31	
2-Chlorotoluene	ND	3.7	NA	1	B4C0363	03/18/2014	03/18/14 19:31	
4-Chlorotoluene	ND	3.7	NA	1	B4C0363	03/18/2014	03/18/14 19:31	
4-Isopropyltoluene	ND	3.7	NA	1	B4C0363	03/18/2014	03/18/14 19:31	
Benzene	ND	3.7	NA	1	B4C0363	03/18/2014	03/18/14 19:31	
Bromobenzene	ND	3.7	NA	1	B4C0363	03/18/2014	03/18/14 19:31	
Bromochloromethane	ND	3.7	NA	1	B4C0363	03/18/2014	03/18/14 19:31	
Bromodichloromethane	ND	3.7	NA	1	B4C0363	03/18/2014	03/18/14 19:31	
Bromoform	ND	3.7	NA	1	B4C0363	03/18/2014	03/18/14 19:31	
Bromomethane	ND	3.7	NA	1	B4C0363	03/18/2014	03/18/14 19:31	
Carbon disulfide	ND	3.7	NA	1	B4C0363	03/18/2014	03/18/14 19:31	
Carbon tetrachloride	ND	3.7	NA	1	B4C0363	03/18/2014	03/18/14 19:31	
Chlorobenzene	ND	3.7	NA	1	B4C0363	03/18/2014	03/18/14 19:31	
Chloroethane	ND	3.7	NA	1	B4C0363	03/18/2014	03/18/14 19:31	
Chloroform	ND	3.7	NA	1	B4C0363	03/18/2014	03/18/14 19:31	
Chloromethane	ND	3.7	NA	1	B4C0363	03/18/2014	03/18/14 19:31	



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Project Number : Del Rey Cleaners, 170101

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Reported : 03/25/2014

Client Sample ID V-7-1.5-2

Lab ID: 1400813-06

Volatile Organic Compounds by EPA 5035/EPA 8260B

Analyst: BD

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
cis-1,2-Dichloroethene	ND	3.7	NA	1	B4C0363	03/18/2014	03/18/14 19:31	
cis-1,3-Dichloropropene	ND	3.7	NA	1	B4C0363	03/18/2014	03/18/14 19:31	
Di-isopropyl ether	ND	3.7	NA	1	B4C0363	03/18/2014	03/18/14 19:31	
Dibromochloromethane	ND	3.7	NA	1	B4C0363	03/18/2014	03/18/14 19:31	
Dibromomethane	ND	3.7	NA	1	B4C0363	03/18/2014	03/18/14 19:31	
Dichlorodifluoromethane	ND	3.7	NA	1	B4C0363	03/18/2014	03/18/14 19:31	
Ethyl Acetate	ND	37	NA	1	B4C0363	03/18/2014	03/18/14 19:31	
Ethyl Ether	ND	37	NA	1	B4C0363	03/18/2014	03/18/14 19:31	
Ethyl tert-butyl ether	ND	3.7	NA	1	B4C0363	03/18/2014	03/18/14 19:31	
Ethylbenzene	ND	3.7	NA	1	B4C0363	03/18/2014	03/18/14 19:31	
Freon-113	ND	3.7	NA	1	B4C0363	03/18/2014	03/18/14 19:31	
Hexachlorobutadiene	ND	3.7	NA	1	B4C0363	03/18/2014	03/18/14 19:31	
Isopropylbenzene	ND	3.7	NA	1	B4C0363	03/18/2014	03/18/14 19:31	
m,p-Xylene	ND	7.5	NA	1	B4C0363	03/18/2014	03/18/14 19:31	
Methylene chloride	ND	3.7	NA	1	B4C0363	03/18/2014	03/18/14 19:31	
MTBE	ND	3.7	NA	1	B4C0363	03/18/2014	03/18/14 19:31	
n-Butylbenzene	ND	3.7	NA	1	B4C0363	03/18/2014	03/18/14 19:31	
n-Propylbenzene	ND	3.7	NA	1	B4C0363	03/18/2014	03/18/14 19:31	
Naphthalene	ND	3.7	NA	1	B4C0363	03/18/2014	03/18/14 19:31	
o-Xylene	ND	3.7	NA	1	B4C0363	03/18/2014	03/18/14 19:31	
sec-Butylbenzene	ND	3.7	NA	1	B4C0363	03/18/2014	03/18/14 19:31	
Styrene	ND	3.7	NA	1	B4C0363	03/18/2014	03/18/14 19:31	
tert-Amyl methyl ether	ND	3.7	NA	1	B4C0363	03/18/2014	03/18/14 19:31	
tert-Butanol	ND	75	NA	1	B4C0363	03/18/2014	03/18/14 19:31	
tert-Butylbenzene	ND	3.7	NA	1	B4C0363	03/18/2014	03/18/14 19:31	
Tetrachloroethene	600000	20000	NA	5000	B4C0386	03/18/2014	03/19/14 19:42	
Toluene	ND	3.7	NA	1	B4C0363	03/18/2014	03/18/14 19:31	
trans-1,2-Dichloroethene	ND	3.7	NA	1	B4C0363	03/18/2014	03/18/14 19:31	
trans-1,3-Dichloropropene	ND	3.7	NA	1	B4C0363	03/18/2014	03/18/14 19:31	
Trichloroethene	ND	3.7	NA	1	B4C0363	03/18/2014	03/18/14 19:31	
Trichlorofluoromethane	ND	3.7	NA	1	B4C0363	03/18/2014	03/18/14 19:31	
Vinyl acetate	ND	37	NA	1	B4C0363	03/18/2014	03/18/14 19:31	
Vinyl chloride	ND	3.7	NA	1	B4C0363	03/18/2014	03/18/14 19:31	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>107 %</i>	<i>63 - 167</i>			B4C0386	03/18/2014	<i>03/19/14 19:42</i>	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>152 %</i>	<i>63 - 167</i>			B4C0363	03/18/2014	<i>03/18/14 19:31</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>99.5 %</i>	<i>63 - 130</i>			B4C0386	03/18/2014	<i>03/19/14 19:42</i>	



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Reported : 03/25/2014

Client Sample ID V-7-1.5-2

Lab ID: 1400813-06

Volatile Organic Compounds by EPA 5035/EPA 8260B

Analyst: BD

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Surrogate: 4-Bromofluorobenzene	106 %	63 - 130			B4C0363	03/18/2014	03/18/14 19:31	
Surrogate: Dibromofluoromethane	129 %	75 - 146			B4C0363	03/18/2014	03/18/14 19:31	
Surrogate: Dibromofluoromethane	99.0 %	75 - 146			B4C0386	03/18/2014	03/19/14 19:42	
Surrogate: Toluene-d8	106 %	78 - 125			B4C0386	03/18/2014	03/19/14 19:42	
Surrogate: Toluene-d8	105 %	78 - 125			B4C0363	03/18/2014	03/18/14 19:31	



Certificate of Analysis

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Huntington Beach, CA 92647

Project Number : Del Rey Cleaners, 170101

Report To : Brett Bowyer

Reported : 03/25/2014

Client Sample ID V-8-4.5-5

Lab ID: 1400813-07

Volatile Organic Compounds by EPA 5035/EPA 8260B

Analyst: BD

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	4.8	NA	1	B4C0368	03/18/2014	03/19/14 12:20	
1,1,1-Trichloroethane	ND	4.8	NA	1	B4C0368	03/18/2014	03/19/14 12:20	
1,1,2,2-Tetrachloroethane	ND	4.8	NA	1	B4C0368	03/18/2014	03/19/14 12:20	
1,1,2-Trichloroethane	ND	4.8	NA	1	B4C0368	03/18/2014	03/19/14 12:20	
1,1-Dichloroethane	ND	4.8	NA	1	B4C0368	03/18/2014	03/19/14 12:20	
1,1-Dichloroethene	ND	4.8	NA	1	B4C0368	03/18/2014	03/19/14 12:20	
1,1-Dichloropropene	ND	4.8	NA	1	B4C0368	03/18/2014	03/19/14 12:20	
1,2,3-Trichloropropane	ND	4.8	NA	1	B4C0368	03/18/2014	03/19/14 12:20	
1,2,3-Trichlorobenzene	ND	4.8	NA	1	B4C0368	03/18/2014	03/19/14 12:20	
1,2,4-Trichlorobenzene	ND	4.8	NA	1	B4C0368	03/18/2014	03/19/14 12:20	
1,2,4-Trimethylbenzene	ND	4.8	NA	1	B4C0368	03/18/2014	03/19/14 12:20	
1,2-Dibromo-3-chloropropane	ND	9.7	NA	1	B4C0368	03/18/2014	03/19/14 12:20	
1,2-Dibromoethane	ND	4.8	NA	1	B4C0368	03/18/2014	03/19/14 12:20	
1,2-Dichlorobenzene	ND	4.8	NA	1	B4C0368	03/18/2014	03/19/14 12:20	
1,2-Dichloroethane	ND	4.8	NA	1	B4C0368	03/18/2014	03/19/14 12:20	
1,2-Dichloropropane	ND	4.8	NA	1	B4C0368	03/18/2014	03/19/14 12:20	
1,3,5-Trimethylbenzene	ND	4.8	NA	1	B4C0368	03/18/2014	03/19/14 12:20	
1,3-Dichlorobenzene	ND	4.8	NA	1	B4C0368	03/18/2014	03/19/14 12:20	
1,3-Dichloropropane	ND	4.8	NA	1	B4C0368	03/18/2014	03/19/14 12:20	
1,4-Dichlorobenzene	ND	4.8	NA	1	B4C0368	03/18/2014	03/19/14 12:20	
2,2-Dichloropropane	ND	4.8	NA	1	B4C0368	03/18/2014	03/19/14 12:20	
2-Chlorotoluene	ND	4.8	NA	1	B4C0368	03/18/2014	03/19/14 12:20	
4-Chlorotoluene	ND	4.8	NA	1	B4C0368	03/18/2014	03/19/14 12:20	
4-Isopropyltoluene	ND	4.8	NA	1	B4C0368	03/18/2014	03/19/14 12:20	
Benzene	ND	4.8	NA	1	B4C0368	03/18/2014	03/19/14 12:20	
Bromobenzene	ND	4.8	NA	1	B4C0368	03/18/2014	03/19/14 12:20	
Bromochloromethane	ND	4.8	NA	1	B4C0368	03/18/2014	03/19/14 12:20	
Bromodichloromethane	ND	4.8	NA	1	B4C0368	03/18/2014	03/19/14 12:20	
Bromoform	ND	4.8	NA	1	B4C0368	03/18/2014	03/19/14 12:20	
Bromomethane	ND	4.8	NA	1	B4C0368	03/18/2014	03/19/14 12:20	
Carbon disulfide	ND	4.8	NA	1	B4C0368	03/18/2014	03/19/14 12:20	
Carbon tetrachloride	ND	4.8	NA	1	B4C0368	03/18/2014	03/19/14 12:20	
Chlorobenzene	ND	4.8	NA	1	B4C0368	03/18/2014	03/19/14 12:20	
Chloroethane	ND	4.8	NA	1	B4C0368	03/18/2014	03/19/14 12:20	
Chloroform	ND	4.8	NA	1	B4C0368	03/18/2014	03/19/14 12:20	
Chloromethane	ND	4.8	NA	1	B4C0368	03/18/2014	03/19/14 12:20	



Certificate of Analysis

Bowyer Environmental Consulting
17011 Beach Blvd., Suite 900
Huntington Beach, CA 92647

Project Number : Del Rey Cleaners, 170101

Report To : Brett Bowyer

Reported : 03/25/2014

Client Sample ID V-8-4.5-5

Lab ID: 1400813-07

Volatile Organic Compounds by EPA 5035/EPA 8260B

Analyst: BD

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
cis-1,2-Dichloroethene	ND	4.8	NA	1	B4C0368	03/18/2014	03/19/14 12:20	
cis-1,3-Dichloropropene	ND	4.8	NA	1	B4C0368	03/18/2014	03/19/14 12:20	
Di-isopropyl ether	ND	4.8	NA	1	B4C0368	03/18/2014	03/19/14 12:20	
Dibromochloromethane	ND	4.8	NA	1	B4C0368	03/18/2014	03/19/14 12:20	
Dibromomethane	ND	4.8	NA	1	B4C0368	03/18/2014	03/19/14 12:20	
Dichlorodifluoromethane	ND	4.8	NA	1	B4C0368	03/18/2014	03/19/14 12:20	
Ethyl Acetate	ND	48	NA	1	B4C0368	03/18/2014	03/19/14 12:20	
Ethyl Ether	ND	48	NA	1	B4C0368	03/18/2014	03/19/14 12:20	
Ethyl tert-butyl ether	ND	4.8	NA	1	B4C0368	03/18/2014	03/19/14 12:20	
Ethylbenzene	ND	4.8	NA	1	B4C0368	03/18/2014	03/19/14 12:20	
Freon-113	ND	4.8	NA	1	B4C0368	03/18/2014	03/19/14 12:20	
Hexachlorobutadiene	ND	4.8	NA	1	B4C0368	03/18/2014	03/19/14 12:20	
Isopropylbenzene	ND	4.8	NA	1	B4C0368	03/18/2014	03/19/14 12:20	
m,p-Xylene	ND	9.7	NA	1	B4C0368	03/18/2014	03/19/14 12:20	
Methylene chloride	ND	4.8	NA	1	B4C0368	03/18/2014	03/19/14 12:20	
MTBE	ND	4.8	NA	1	B4C0368	03/18/2014	03/19/14 12:20	
n-Butylbenzene	ND	4.8	NA	1	B4C0368	03/18/2014	03/19/14 12:20	
n-Propylbenzene	ND	4.8	NA	1	B4C0368	03/18/2014	03/19/14 12:20	
Naphthalene	ND	4.8	NA	1	B4C0368	03/18/2014	03/19/14 12:20	
o-Xylene	ND	4.8	NA	1	B4C0368	03/18/2014	03/19/14 12:20	
sec-Butylbenzene	ND	4.8	NA	1	B4C0368	03/18/2014	03/19/14 12:20	
Styrene	ND	4.8	NA	1	B4C0368	03/18/2014	03/19/14 12:20	
tert-Amyl methyl ether	ND	4.8	NA	1	B4C0368	03/18/2014	03/19/14 12:20	
tert-Butanol	ND	97	NA	1	B4C0368	03/18/2014	03/19/14 12:20	
tert-Butylbenzene	ND	4.8	NA	1	B4C0368	03/18/2014	03/19/14 12:20	
Tetrachloroethene	8.8	4.8	NA	1	B4C0368	03/18/2014	03/19/14 12:20	
Toluene	ND	4.8	NA	1	B4C0368	03/18/2014	03/19/14 12:20	
trans-1,2-Dichloroethene	ND	4.8	NA	1	B4C0368	03/18/2014	03/19/14 12:20	
trans-1,3-Dichloropropene	ND	4.8	NA	1	B4C0368	03/18/2014	03/19/14 12:20	
Trichloroethene	ND	4.8	NA	1	B4C0368	03/18/2014	03/19/14 12:20	
Trichlorofluoromethane	ND	4.8	NA	1	B4C0368	03/18/2014	03/19/14 12:20	
Vinyl acetate	ND	48	NA	1	B4C0368	03/18/2014	03/19/14 12:20	
Vinyl chloride	ND	4.8	NA	1	B4C0368	03/18/2014	03/19/14 12:20	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>141 %</i>	<i>63 - 167</i>			B4C0368	03/18/2014	<i>03/19/14 12:20</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>103 %</i>	<i>63 - 130</i>			B4C0368	03/18/2014	<i>03/19/14 12:20</i>	
<i>Surrogate: Dibromofluoromethane</i>	<i>117 %</i>	<i>75 - 146</i>			B4C0368	03/18/2014	<i>03/19/14 12:20</i>	



Certificate of Analysis

Bowyer Environmental Consulting
17011 Beach Blvd., Suite 900
Huntington Beach, CA 92647

Project Number : Del Rey Cleaners, 170101
Report To : Brett Bowyer
Reported : 03/25/2014

Client Sample ID V-8-4.5-5

Lab ID: 1400813-07

Volatile Organic Compounds by EPA 5035/EPA 8260B

Analyst: BD

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
<i>Surrogate: Toluene-d8</i>	<i>104 %</i>		<i>78 - 125</i>		B4C0368	03/18/2014	<i>03/19/14 12:20</i>	



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Bowyer Environmental Consulting

17011 Beach Blvd., Suite 900

Huntington Beach, CA 92647

Project Number : Del Rey Cleaners, 170101

Report To : Brett Bowyer

Reported : 03/25/2014

Client Sample ID V-9-5-5.5

Lab ID: 1400813-08

Volatile Organic Compounds by EPA 5035/EPA 8260B

Analyst: BD

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	4.9	NA	1	B4C0368	03/18/2014	03/19/14 12:39	
1,1,1-Trichloroethane	ND	4.9	NA	1	B4C0368	03/18/2014	03/19/14 12:39	
1,1,2,2-Tetrachloroethane	ND	4.9	NA	1	B4C0368	03/18/2014	03/19/14 12:39	
1,1,2-Trichloroethane	ND	4.9	NA	1	B4C0368	03/18/2014	03/19/14 12:39	
1,1-Dichloroethane	ND	4.9	NA	1	B4C0368	03/18/2014	03/19/14 12:39	
1,1-Dichloroethene	ND	4.9	NA	1	B4C0368	03/18/2014	03/19/14 12:39	
1,1-Dichloropropene	ND	4.9	NA	1	B4C0368	03/18/2014	03/19/14 12:39	
1,2,3-Trichloropropane	ND	4.9	NA	1	B4C0368	03/18/2014	03/19/14 12:39	
1,2,3-Trichlorobenzene	ND	4.9	NA	1	B4C0368	03/18/2014	03/19/14 12:39	
1,2,4-Trichlorobenzene	ND	4.9	NA	1	B4C0368	03/18/2014	03/19/14 12:39	
1,2,4-Trimethylbenzene	ND	4.9	NA	1	B4C0368	03/18/2014	03/19/14 12:39	
1,2-Dibromo-3-chloropropane	ND	9.8	NA	1	B4C0368	03/18/2014	03/19/14 12:39	
1,2-Dibromoethane	ND	4.9	NA	1	B4C0368	03/18/2014	03/19/14 12:39	
1,2-Dichlorobenzene	ND	4.9	NA	1	B4C0368	03/18/2014	03/19/14 12:39	
1,2-Dichloroethane	ND	4.9	NA	1	B4C0368	03/18/2014	03/19/14 12:39	
1,2-Dichloropropane	ND	4.9	NA	1	B4C0368	03/18/2014	03/19/14 12:39	
1,3,5-Trimethylbenzene	ND	4.9	NA	1	B4C0368	03/18/2014	03/19/14 12:39	
1,3-Dichlorobenzene	ND	4.9	NA	1	B4C0368	03/18/2014	03/19/14 12:39	
1,3-Dichloropropane	ND	4.9	NA	1	B4C0368	03/18/2014	03/19/14 12:39	
1,4-Dichlorobenzene	ND	4.9	NA	1	B4C0368	03/18/2014	03/19/14 12:39	
2,2-Dichloropropane	ND	4.9	NA	1	B4C0368	03/18/2014	03/19/14 12:39	
2-Chlorotoluene	ND	4.9	NA	1	B4C0368	03/18/2014	03/19/14 12:39	
4-Chlorotoluene	ND	4.9	NA	1	B4C0368	03/18/2014	03/19/14 12:39	
4-Isopropyltoluene	ND	4.9	NA	1	B4C0368	03/18/2014	03/19/14 12:39	
Benzene	ND	4.9	NA	1	B4C0368	03/18/2014	03/19/14 12:39	
Bromobenzene	ND	4.9	NA	1	B4C0368	03/18/2014	03/19/14 12:39	
Bromochloromethane	ND	4.9	NA	1	B4C0368	03/18/2014	03/19/14 12:39	
Bromodichloromethane	ND	4.9	NA	1	B4C0368	03/18/2014	03/19/14 12:39	
Bromoform	ND	4.9	NA	1	B4C0368	03/18/2014	03/19/14 12:39	
Bromomethane	ND	4.9	NA	1	B4C0368	03/18/2014	03/19/14 12:39	
Carbon disulfide	ND	4.9	NA	1	B4C0368	03/18/2014	03/19/14 12:39	
Carbon tetrachloride	ND	4.9	NA	1	B4C0368	03/18/2014	03/19/14 12:39	
Chlorobenzene	ND	4.9	NA	1	B4C0368	03/18/2014	03/19/14 12:39	
Chloroethane	ND	4.9	NA	1	B4C0368	03/18/2014	03/19/14 12:39	
Chloroform	ND	4.9	NA	1	B4C0368	03/18/2014	03/19/14 12:39	
Chloromethane	ND	4.9	NA	1	B4C0368	03/18/2014	03/19/14 12:39	



Certificate of Analysis

Bowyer Environmental Consulting
17011 Beach Blvd., Suite 900
Huntington Beach, CA 92647

Project Number : Del Rey Cleaners, 170101

Report To : Brett Bowyer

Reported : 03/25/2014

Client Sample ID V-9-5-5.5

Lab ID: 1400813-08

Volatile Organic Compounds by EPA 5035/EPA 8260B

Analyst: BD

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
cis-1,2-Dichloroethene	ND	4.9	NA	1	B4C0368	03/18/2014	03/19/14 12:39	
cis-1,3-Dichloropropene	ND	4.9	NA	1	B4C0368	03/18/2014	03/19/14 12:39	
Di-isopropyl ether	ND	4.9	NA	1	B4C0368	03/18/2014	03/19/14 12:39	
Dibromochloromethane	ND	4.9	NA	1	B4C0368	03/18/2014	03/19/14 12:39	
Dibromomethane	ND	4.9	NA	1	B4C0368	03/18/2014	03/19/14 12:39	
Dichlorodifluoromethane	ND	4.9	NA	1	B4C0368	03/18/2014	03/19/14 12:39	
Ethyl Acetate	ND	49	NA	1	B4C0368	03/18/2014	03/19/14 12:39	
Ethyl Ether	ND	49	NA	1	B4C0368	03/18/2014	03/19/14 12:39	
Ethyl tert-butyl ether	ND	4.9	NA	1	B4C0368	03/18/2014	03/19/14 12:39	
Ethylbenzene	ND	4.9	NA	1	B4C0368	03/18/2014	03/19/14 12:39	
Freon-113	ND	4.9	NA	1	B4C0368	03/18/2014	03/19/14 12:39	
Hexachlorobutadiene	ND	4.9	NA	1	B4C0368	03/18/2014	03/19/14 12:39	
Isopropylbenzene	ND	4.9	NA	1	B4C0368	03/18/2014	03/19/14 12:39	
m,p-Xylene	ND	9.8	NA	1	B4C0368	03/18/2014	03/19/14 12:39	
Methylene chloride	ND	4.9	NA	1	B4C0368	03/18/2014	03/19/14 12:39	
MTBE	ND	4.9	NA	1	B4C0368	03/18/2014	03/19/14 12:39	
n-Butylbenzene	ND	4.9	NA	1	B4C0368	03/18/2014	03/19/14 12:39	
n-Propylbenzene	ND	4.9	NA	1	B4C0368	03/18/2014	03/19/14 12:39	
Naphthalene	ND	4.9	NA	1	B4C0368	03/18/2014	03/19/14 12:39	
o-Xylene	ND	4.9	NA	1	B4C0368	03/18/2014	03/19/14 12:39	
sec-Butylbenzene	ND	4.9	NA	1	B4C0368	03/18/2014	03/19/14 12:39	
Styrene	ND	4.9	NA	1	B4C0368	03/18/2014	03/19/14 12:39	
tert-Amyl methyl ether	ND	4.9	NA	1	B4C0368	03/18/2014	03/19/14 12:39	
tert-Butanol	ND	98	NA	1	B4C0368	03/18/2014	03/19/14 12:39	
tert-Butylbenzene	ND	4.9	NA	1	B4C0368	03/18/2014	03/19/14 12:39	
Tetrachloroethene	8.5	4.9	NA	1	B4C0368	03/18/2014	03/19/14 12:39	
Toluene	ND	4.9	NA	1	B4C0368	03/18/2014	03/19/14 12:39	
trans-1,2-Dichloroethene	ND	4.9	NA	1	B4C0368	03/18/2014	03/19/14 12:39	
trans-1,3-Dichloropropene	ND	4.9	NA	1	B4C0368	03/18/2014	03/19/14 12:39	
Trichloroethene	ND	4.9	NA	1	B4C0368	03/18/2014	03/19/14 12:39	
Trichlorofluoromethane	ND	4.9	NA	1	B4C0368	03/18/2014	03/19/14 12:39	
Vinyl acetate	ND	49	NA	1	B4C0368	03/18/2014	03/19/14 12:39	
Vinyl chloride	ND	4.9	NA	1	B4C0368	03/18/2014	03/19/14 12:39	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>140 %</i>	<i>63 - 167</i>			B4C0368	03/18/2014	<i>03/19/14 12:39</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>96.8 %</i>	<i>63 - 130</i>			B4C0368	03/18/2014	<i>03/19/14 12:39</i>	
<i>Surrogate: Dibromofluoromethane</i>	<i>111 %</i>	<i>75 - 146</i>			B4C0368	03/18/2014	<i>03/19/14 12:39</i>	



Certificate of Analysis

Bowyer Environmental Consulting
17011 Beach Blvd., Suite 900
Huntington Beach, CA 92647

Project Number : Del Rey Cleaners, 170101
Report To : Brett Bowyer
Reported : 03/25/2014

Client Sample ID V-9-5-5.5

Lab ID: 1400813-08

Volatile Organic Compounds by EPA 5035/EPA 8260B

Analyst: BD

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
<i>Surrogate: Toluene-d8</i>	<i>104 %</i>		<i>78 - 125</i>		B4C0368	03/18/2014	<i>03/19/14 12:39</i>	



Certificate of Analysis

Bowyer Environmental Consulting
17011 Beach Blvd., Suite 900
Huntington Beach, CA 92647

Project Number : Del Rey Cleaners, 170101

Report To : Brett Bowyer

Reported : 03/25/2014

Client Sample ID V-10-5-5.5

Lab ID: 1400813-09

Volatile Organic Compounds by EPA 5035/EPA 8260B

Analyst: BD

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	4.8	NA	1	B4C0368	03/18/2014	03/19/14 14:31	
1,1,1-Trichloroethane	ND	4.8	NA	1	B4C0368	03/18/2014	03/19/14 14:31	
1,1,2,2-Tetrachloroethane	ND	4.8	NA	1	B4C0368	03/18/2014	03/19/14 14:31	
1,1,2-Trichloroethane	ND	4.8	NA	1	B4C0368	03/18/2014	03/19/14 14:31	
1,1-Dichloroethane	ND	4.8	NA	1	B4C0368	03/18/2014	03/19/14 14:31	
1,1-Dichloroethene	ND	4.8	NA	1	B4C0368	03/18/2014	03/19/14 14:31	
1,1-Dichloropropene	ND	4.8	NA	1	B4C0368	03/18/2014	03/19/14 14:31	
1,2,3-Trichloropropane	ND	4.8	NA	1	B4C0368	03/18/2014	03/19/14 14:31	
1,2,3-Trichlorobenzene	ND	4.8	NA	1	B4C0368	03/18/2014	03/19/14 14:31	
1,2,4-Trichlorobenzene	ND	4.8	NA	1	B4C0368	03/18/2014	03/19/14 14:31	
1,2,4-Trimethylbenzene	ND	4.8	NA	1	B4C0368	03/18/2014	03/19/14 14:31	
1,2-Dibromo-3-chloropropane	ND	9.6	NA	1	B4C0368	03/18/2014	03/19/14 14:31	
1,2-Dibromoethane	ND	4.8	NA	1	B4C0368	03/18/2014	03/19/14 14:31	
1,2-Dichlorobenzene	ND	4.8	NA	1	B4C0368	03/18/2014	03/19/14 14:31	
1,2-Dichloroethane	ND	4.8	NA	1	B4C0368	03/18/2014	03/19/14 14:31	
1,2-Dichloropropane	ND	4.8	NA	1	B4C0368	03/18/2014	03/19/14 14:31	
1,3,5-Trimethylbenzene	ND	4.8	NA	1	B4C0368	03/18/2014	03/19/14 14:31	
1,3-Dichlorobenzene	ND	4.8	NA	1	B4C0368	03/18/2014	03/19/14 14:31	
1,3-Dichloropropane	ND	4.8	NA	1	B4C0368	03/18/2014	03/19/14 14:31	
1,4-Dichlorobenzene	ND	4.8	NA	1	B4C0368	03/18/2014	03/19/14 14:31	
2,2-Dichloropropane	ND	4.8	NA	1	B4C0368	03/18/2014	03/19/14 14:31	
2-Chlorotoluene	ND	4.8	NA	1	B4C0368	03/18/2014	03/19/14 14:31	
4-Chlorotoluene	ND	4.8	NA	1	B4C0368	03/18/2014	03/19/14 14:31	
4-Isopropyltoluene	ND	4.8	NA	1	B4C0368	03/18/2014	03/19/14 14:31	
Benzene	ND	4.8	NA	1	B4C0368	03/18/2014	03/19/14 14:31	
Bromobenzene	ND	4.8	NA	1	B4C0368	03/18/2014	03/19/14 14:31	
Bromochloromethane	ND	4.8	NA	1	B4C0368	03/18/2014	03/19/14 14:31	
Bromodichloromethane	ND	4.8	NA	1	B4C0368	03/18/2014	03/19/14 14:31	
Bromoform	ND	4.8	NA	1	B4C0368	03/18/2014	03/19/14 14:31	
Bromomethane	ND	4.8	NA	1	B4C0368	03/18/2014	03/19/14 14:31	
Carbon disulfide	ND	4.8	NA	1	B4C0368	03/18/2014	03/19/14 14:31	
Carbon tetrachloride	ND	4.8	NA	1	B4C0368	03/18/2014	03/19/14 14:31	
Chlorobenzene	ND	4.8	NA	1	B4C0368	03/18/2014	03/19/14 14:31	
Chloroethane	ND	4.8	NA	1	B4C0368	03/18/2014	03/19/14 14:31	
Chloroform	ND	4.8	NA	1	B4C0368	03/18/2014	03/19/14 14:31	
Chloromethane	ND	4.8	NA	1	B4C0368	03/18/2014	03/19/14 14:31	



Certificate of Analysis

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Project Number : Del Rey Cleaners, 170101

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Reported : 03/25/2014

Client Sample ID V-10-5-5.5

Lab ID: 1400813-09

Volatile Organic Compounds by EPA 5035/EPA 8260B

Analyst: BD

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
cis-1,2-Dichloroethene	ND	4.8	NA	1	B4C0368	03/18/2014	03/19/14 14:31	
cis-1,3-Dichloropropene	ND	4.8	NA	1	B4C0368	03/18/2014	03/19/14 14:31	
Di-isopropyl ether	ND	4.8	NA	1	B4C0368	03/18/2014	03/19/14 14:31	
Dibromochloromethane	ND	4.8	NA	1	B4C0368	03/18/2014	03/19/14 14:31	
Dibromomethane	ND	4.8	NA	1	B4C0368	03/18/2014	03/19/14 14:31	
Dichlorodifluoromethane	ND	4.8	NA	1	B4C0368	03/18/2014	03/19/14 14:31	
Ethyl Acetate	ND	48	NA	1	B4C0368	03/18/2014	03/19/14 14:31	
Ethyl Ether	ND	48	NA	1	B4C0368	03/18/2014	03/19/14 14:31	
Ethyl tert-butyl ether	ND	4.8	NA	1	B4C0368	03/18/2014	03/19/14 14:31	
Ethylbenzene	ND	4.8	NA	1	B4C0368	03/18/2014	03/19/14 14:31	
Freon-113	ND	4.8	NA	1	B4C0368	03/18/2014	03/19/14 14:31	
Hexachlorobutadiene	ND	4.8	NA	1	B4C0368	03/18/2014	03/19/14 14:31	
Isopropylbenzene	ND	4.8	NA	1	B4C0368	03/18/2014	03/19/14 14:31	
m,p-Xylene	ND	9.6	NA	1	B4C0368	03/18/2014	03/19/14 14:31	
Methylene chloride	ND	4.8	NA	1	B4C0368	03/18/2014	03/19/14 14:31	
MTBE	ND	4.8	NA	1	B4C0368	03/18/2014	03/19/14 14:31	
n-Butylbenzene	ND	4.8	NA	1	B4C0368	03/18/2014	03/19/14 14:31	
n-Propylbenzene	ND	4.8	NA	1	B4C0368	03/18/2014	03/19/14 14:31	
Naphthalene	ND	4.8	NA	1	B4C0368	03/18/2014	03/19/14 14:31	
o-Xylene	ND	4.8	NA	1	B4C0368	03/18/2014	03/19/14 14:31	
sec-Butylbenzene	ND	4.8	NA	1	B4C0368	03/18/2014	03/19/14 14:31	
Styrene	ND	4.8	NA	1	B4C0368	03/18/2014	03/19/14 14:31	
tert-Amyl methyl ether	ND	4.8	NA	1	B4C0368	03/18/2014	03/19/14 14:31	
tert-Butanol	ND	96	NA	1	B4C0368	03/18/2014	03/19/14 14:31	
tert-Butylbenzene	ND	4.8	NA	1	B4C0368	03/18/2014	03/19/14 14:31	
Tetrachloroethene	6.0	4.8	NA	1	B4C0368	03/18/2014	03/19/14 14:31	
Toluene	ND	4.8	NA	1	B4C0368	03/18/2014	03/19/14 14:31	
trans-1,2-Dichloroethene	ND	4.8	NA	1	B4C0368	03/18/2014	03/19/14 14:31	
trans-1,3-Dichloropropene	ND	4.8	NA	1	B4C0368	03/18/2014	03/19/14 14:31	
Trichloroethene	ND	4.8	NA	1	B4C0368	03/18/2014	03/19/14 14:31	
Trichlorofluoromethane	ND	4.8	NA	1	B4C0368	03/18/2014	03/19/14 14:31	
Vinyl acetate	ND	48	NA	1	B4C0368	03/18/2014	03/19/14 14:31	
Vinyl chloride	ND	4.8	NA	1	B4C0368	03/18/2014	03/19/14 14:31	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>143 %</i>	<i>63 - 167</i>			B4C0368	03/18/2014	<i>03/19/14 14:31</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>100 %</i>	<i>63 - 130</i>			B4C0368	03/18/2014	<i>03/19/14 14:31</i>	
<i>Surrogate: Dibromofluoromethane</i>	<i>114 %</i>	<i>75 - 146</i>			B4C0368	03/18/2014	<i>03/19/14 14:31</i>	



Certificate of Analysis

Bowyer Environmental Consulting
17011 Beach Blvd., Suite 900
Huntington Beach, CA 92647

Project Number : Del Rey Cleaners, 170101
Report To : Brett Bowyer
Reported : 03/25/2014

Client Sample ID V-10-5-5.5

Lab ID: 1400813-09

Volatile Organic Compounds by EPA 5035/EPA 8260B

Analyst: BD

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Surrogate: Toluene-d8	107 %		78 - 125		B4C0368	03/18/2014	03/19/14 14:31	



Certificate of Analysis

Bowyer Environmental Consulting

17011 Beach Blvd., Suite 900

Huntington Beach, CA 92647

Project Number : Del Rey Cleaners, 170101

Report To : Brett Bowyer

Reported : 03/25/2014

Client Sample ID V-11-4.5-5

Lab ID: 1400813-10

Volatile Organic Compounds by EPA 5035/EPA 8260B

Analyst: BD

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	4.7	NA	1	B4C0368	03/18/2014	03/19/14 12:57	
1,1,1-Trichloroethane	ND	4.7	NA	1	B4C0368	03/18/2014	03/19/14 12:57	
1,1,2,2-Tetrachloroethane	ND	4.7	NA	1	B4C0368	03/18/2014	03/19/14 12:57	
1,1,2-Trichloroethane	ND	4.7	NA	1	B4C0368	03/18/2014	03/19/14 12:57	
1,1-Dichloroethane	ND	4.7	NA	1	B4C0368	03/18/2014	03/19/14 12:57	
1,1-Dichloroethene	ND	4.7	NA	1	B4C0368	03/18/2014	03/19/14 12:57	
1,1-Dichloropropene	ND	4.7	NA	1	B4C0368	03/18/2014	03/19/14 12:57	
1,2,3-Trichloropropane	ND	4.7	NA	1	B4C0368	03/18/2014	03/19/14 12:57	
1,2,3-Trichlorobenzene	ND	4.7	NA	1	B4C0368	03/18/2014	03/19/14 12:57	
1,2,4-Trichlorobenzene	ND	4.7	NA	1	B4C0368	03/18/2014	03/19/14 12:57	
1,2,4-Trimethylbenzene	ND	4.7	NA	1	B4C0368	03/18/2014	03/19/14 12:57	
1,2-Dibromo-3-chloropropane	ND	9.4	NA	1	B4C0368	03/18/2014	03/19/14 12:57	
1,2-Dibromoethane	ND	4.7	NA	1	B4C0368	03/18/2014	03/19/14 12:57	
1,2-Dichlorobenzene	ND	4.7	NA	1	B4C0368	03/18/2014	03/19/14 12:57	
1,2-Dichloroethane	ND	4.7	NA	1	B4C0368	03/18/2014	03/19/14 12:57	
1,2-Dichloropropane	ND	4.7	NA	1	B4C0368	03/18/2014	03/19/14 12:57	
1,3,5-Trimethylbenzene	ND	4.7	NA	1	B4C0368	03/18/2014	03/19/14 12:57	
1,3-Dichlorobenzene	ND	4.7	NA	1	B4C0368	03/18/2014	03/19/14 12:57	
1,3-Dichloropropane	ND	4.7	NA	1	B4C0368	03/18/2014	03/19/14 12:57	
1,4-Dichlorobenzene	ND	4.7	NA	1	B4C0368	03/18/2014	03/19/14 12:57	
2,2-Dichloropropane	ND	4.7	NA	1	B4C0368	03/18/2014	03/19/14 12:57	
2-Chlorotoluene	ND	4.7	NA	1	B4C0368	03/18/2014	03/19/14 12:57	
4-Chlorotoluene	ND	4.7	NA	1	B4C0368	03/18/2014	03/19/14 12:57	
4-Isopropyltoluene	ND	4.7	NA	1	B4C0368	03/18/2014	03/19/14 12:57	
Benzene	ND	4.7	NA	1	B4C0368	03/18/2014	03/19/14 12:57	
Bromobenzene	ND	4.7	NA	1	B4C0368	03/18/2014	03/19/14 12:57	
Bromochloromethane	ND	4.7	NA	1	B4C0368	03/18/2014	03/19/14 12:57	
Bromodichloromethane	ND	4.7	NA	1	B4C0368	03/18/2014	03/19/14 12:57	
Bromoform	ND	4.7	NA	1	B4C0368	03/18/2014	03/19/14 12:57	
Bromomethane	ND	4.7	NA	1	B4C0368	03/18/2014	03/19/14 12:57	
Carbon disulfide	ND	4.7	NA	1	B4C0368	03/18/2014	03/19/14 12:57	
Carbon tetrachloride	ND	4.7	NA	1	B4C0368	03/18/2014	03/19/14 12:57	
Chlorobenzene	ND	4.7	NA	1	B4C0368	03/18/2014	03/19/14 12:57	
Chloroethane	ND	4.7	NA	1	B4C0368	03/18/2014	03/19/14 12:57	
Chloroform	ND	4.7	NA	1	B4C0368	03/18/2014	03/19/14 12:57	
Chloromethane	ND	4.7	NA	1	B4C0368	03/18/2014	03/19/14 12:57	



Certificate of Analysis

Bowyer Environmental Consulting
17011 Beach Blvd., Suite 900
Huntington Beach, CA 92647

Project Number : Del Rey Cleaners, 170101

Report To : Brett Bowyer

Reported : 03/25/2014

Client Sample ID V-11-4.5-5

Lab ID: 1400813-10

Volatile Organic Compounds by EPA 5035/EPA 8260B

Analyst: BD

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
cis-1,2-Dichloroethene	17	4.7	NA	1	B4C0368	03/18/2014	03/19/14 12:57	
cis-1,3-Dichloropropene	ND	4.7	NA	1	B4C0368	03/18/2014	03/19/14 12:57	
Di-isopropyl ether	ND	4.7	NA	1	B4C0368	03/18/2014	03/19/14 12:57	
Dibromochloromethane	ND	4.7	NA	1	B4C0368	03/18/2014	03/19/14 12:57	
Dibromomethane	ND	4.7	NA	1	B4C0368	03/18/2014	03/19/14 12:57	
Dichlorodifluoromethane	ND	4.7	NA	1	B4C0368	03/18/2014	03/19/14 12:57	
Ethyl Acetate	ND	47	NA	1	B4C0368	03/18/2014	03/19/14 12:57	
Ethyl Ether	ND	47	NA	1	B4C0368	03/18/2014	03/19/14 12:57	
Ethyl tert-butyl ether	ND	4.7	NA	1	B4C0368	03/18/2014	03/19/14 12:57	
Ethylbenzene	ND	4.7	NA	1	B4C0368	03/18/2014	03/19/14 12:57	
Freon-113	ND	4.7	NA	1	B4C0368	03/18/2014	03/19/14 12:57	
Hexachlorobutadiene	ND	4.7	NA	1	B4C0368	03/18/2014	03/19/14 12:57	
Isopropylbenzene	ND	4.7	NA	1	B4C0368	03/18/2014	03/19/14 12:57	
m,p-Xylene	ND	9.4	NA	1	B4C0368	03/18/2014	03/19/14 12:57	
Methylene chloride	ND	4.7	NA	1	B4C0368	03/18/2014	03/19/14 12:57	
MTBE	ND	4.7	NA	1	B4C0368	03/18/2014	03/19/14 12:57	
n-Butylbenzene	ND	4.7	NA	1	B4C0368	03/18/2014	03/19/14 12:57	
n-Propylbenzene	ND	4.7	NA	1	B4C0368	03/18/2014	03/19/14 12:57	
Naphthalene	ND	4.7	NA	1	B4C0368	03/18/2014	03/19/14 12:57	
o-Xylene	ND	4.7	NA	1	B4C0368	03/18/2014	03/19/14 12:57	
sec-Butylbenzene	ND	4.7	NA	1	B4C0368	03/18/2014	03/19/14 12:57	
Styrene	ND	4.7	NA	1	B4C0368	03/18/2014	03/19/14 12:57	
tert-Amyl methyl ether	ND	4.7	NA	1	B4C0368	03/18/2014	03/19/14 12:57	
tert-Butanol	ND	94	NA	1	B4C0368	03/18/2014	03/19/14 12:57	
tert-Butylbenzene	ND	4.7	NA	1	B4C0368	03/18/2014	03/19/14 12:57	
Tetrachloroethene	150	4.7	NA	1	B4C0368	03/18/2014	03/19/14 12:57	
Toluene	ND	4.7	NA	1	B4C0368	03/18/2014	03/19/14 12:57	
trans-1,2-Dichloroethene	ND	4.7	NA	1	B4C0368	03/18/2014	03/19/14 12:57	
trans-1,3-Dichloropropene	ND	4.7	NA	1	B4C0368	03/18/2014	03/19/14 12:57	
Trichloroethene	6.6	4.7	NA	1	B4C0368	03/18/2014	03/19/14 12:57	
Trichlorofluoromethane	ND	4.7	NA	1	B4C0368	03/18/2014	03/19/14 12:57	
Vinyl acetate	ND	47	NA	1	B4C0368	03/18/2014	03/19/14 12:57	
Vinyl chloride	ND	4.7	NA	1	B4C0368	03/18/2014	03/19/14 12:57	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>137 %</i>	<i>63 - 167</i>			B4C0368	03/18/2014	<i>03/19/14 12:57</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>98.5 %</i>	<i>63 - 130</i>			B4C0368	03/18/2014	<i>03/19/14 12:57</i>	
<i>Surrogate: Dibromofluoromethane</i>	<i>111 %</i>	<i>75 - 146</i>			B4C0368	03/18/2014	<i>03/19/14 12:57</i>	



Certificate of Analysis

Bowyer Environmental Consulting
17011 Beach Blvd., Suite 900
Huntington Beach, CA 92647

Project Number : Del Rey Cleaners, 170101
Report To : Brett Bowyer
Reported : 03/25/2014

Client Sample ID V-11-4.5-5

Lab ID: 1400813-10

Volatile Organic Compounds by EPA 5035/EPA 8260B

Analyst: BD

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Surrogate: Toluene-d8	108 %		78 - 125		B4C0368	03/18/2014	03/19/14 12:57	



Certificate of Analysis

Bowyer Environmental Consulting

17011 Beach Blvd., Suite 900

Huntington Beach, CA 92647

Project Number : Del Rey Cleaners, 170101

Report To : Brett Bowyer

Reported : 03/25/2014

Client Sample ID V-17-4-4.5

Lab ID: 1400813-11

Volatile Organic Compounds by EPA 5035/EPA 8260B

Analyst: BD

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	4.5	NA	1	B4C0386	03/18/2014	03/19/14 20:00	
1,1,1-Trichloroethane	ND	4.5	NA	1	B4C0386	03/18/2014	03/19/14 20:00	
1,1,2,2-Tetrachloroethane	ND	4.5	NA	1	B4C0386	03/18/2014	03/19/14 20:00	
1,1,2-Trichloroethane	ND	4.5	NA	1	B4C0386	03/18/2014	03/19/14 20:00	
1,1-Dichloroethane	ND	4.5	NA	1	B4C0386	03/18/2014	03/19/14 20:00	
1,1-Dichloroethene	ND	4.5	NA	1	B4C0386	03/18/2014	03/19/14 20:00	
1,1-Dichloropropene	ND	4.5	NA	1	B4C0386	03/18/2014	03/19/14 20:00	
1,2,3-Trichloropropane	ND	4.5	NA	1	B4C0386	03/18/2014	03/19/14 20:00	
1,2,3-Trichlorobenzene	ND	4.5	NA	1	B4C0386	03/18/2014	03/19/14 20:00	
1,2,4-Trichlorobenzene	ND	4.5	NA	1	B4C0386	03/18/2014	03/19/14 20:00	
1,2,4-Trimethylbenzene	ND	4.5	NA	1	B4C0386	03/18/2014	03/19/14 20:00	
1,2-Dibromo-3-chloropropane	ND	9.0	NA	1	B4C0386	03/18/2014	03/19/14 20:00	
1,2-Dibromoethane	ND	4.5	NA	1	B4C0386	03/18/2014	03/19/14 20:00	
1,2-Dichlorobenzene	ND	4.5	NA	1	B4C0386	03/18/2014	03/19/14 20:00	
1,2-Dichloroethane	ND	4.5	NA	1	B4C0386	03/18/2014	03/19/14 20:00	
1,2-Dichloropropane	ND	4.5	NA	1	B4C0386	03/18/2014	03/19/14 20:00	
1,3,5-Trimethylbenzene	ND	4.5	NA	1	B4C0386	03/18/2014	03/19/14 20:00	
1,3-Dichlorobenzene	ND	4.5	NA	1	B4C0386	03/18/2014	03/19/14 20:00	
1,3-Dichloropropane	ND	4.5	NA	1	B4C0386	03/18/2014	03/19/14 20:00	
1,4-Dichlorobenzene	ND	4.5	NA	1	B4C0386	03/18/2014	03/19/14 20:00	
2,2-Dichloropropane	ND	4.5	NA	1	B4C0386	03/18/2014	03/19/14 20:00	
2-Chlorotoluene	ND	4.5	NA	1	B4C0386	03/18/2014	03/19/14 20:00	
4-Chlorotoluene	ND	4.5	NA	1	B4C0386	03/18/2014	03/19/14 20:00	
4-Isopropyltoluene	ND	4.5	NA	1	B4C0386	03/18/2014	03/19/14 20:00	
Benzene	ND	4.5	NA	1	B4C0386	03/18/2014	03/19/14 20:00	
Bromobenzene	ND	4.5	NA	1	B4C0386	03/18/2014	03/19/14 20:00	
Bromochloromethane	ND	4.5	NA	1	B4C0386	03/18/2014	03/19/14 20:00	
Bromodichloromethane	ND	4.5	NA	1	B4C0386	03/18/2014	03/19/14 20:00	
Bromoform	ND	4.5	NA	1	B4C0386	03/18/2014	03/19/14 20:00	
Bromomethane	ND	4.5	NA	1	B4C0386	03/18/2014	03/19/14 20:00	
Carbon disulfide	ND	4.5	NA	1	B4C0386	03/18/2014	03/19/14 20:00	
Carbon tetrachloride	ND	4.5	NA	1	B4C0386	03/18/2014	03/19/14 20:00	
Chlorobenzene	ND	4.5	NA	1	B4C0386	03/18/2014	03/19/14 20:00	
Chloroethane	ND	4.5	NA	1	B4C0386	03/18/2014	03/19/14 20:00	
Chloroform	ND	4.5	NA	1	B4C0386	03/18/2014	03/19/14 20:00	
Chloromethane	ND	4.5	NA	1	B4C0386	03/18/2014	03/19/14 20:00	



Certificate of Analysis

Bowyer Environmental Consulting

17011 Beach Blvd., Suite 900

Huntington Beach, CA 92647

Project Number : Del Rey Cleaners, 170101

Report To : Brett Bowyer

Reported : 03/25/2014

Client Sample ID V-17-4-4.5

Lab ID: 1400813-11

Volatile Organic Compounds by EPA 5035/EPA 8260B

Analyst: BD

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
cis-1,2-Dichloroethene	ND	4.5	NA	1	B4C0386	03/18/2014	03/19/14 20:00	
cis-1,3-Dichloropropene	ND	4.5	NA	1	B4C0386	03/18/2014	03/19/14 20:00	
Di-isopropyl ether	ND	4.5	NA	1	B4C0386	03/18/2014	03/19/14 20:00	
Dibromochloromethane	ND	4.5	NA	1	B4C0386	03/18/2014	03/19/14 20:00	
Dibromomethane	ND	4.5	NA	1	B4C0386	03/18/2014	03/19/14 20:00	
Dichlorodifluoromethane	ND	4.5	NA	1	B4C0386	03/18/2014	03/19/14 20:00	
Ethyl Acetate	ND	45	NA	1	B4C0386	03/18/2014	03/19/14 20:00	
Ethyl Ether	ND	45	NA	1	B4C0386	03/18/2014	03/19/14 20:00	
Ethyl tert-butyl ether	ND	4.5	NA	1	B4C0386	03/18/2014	03/19/14 20:00	
Ethylbenzene	ND	4.5	NA	1	B4C0386	03/18/2014	03/19/14 20:00	
Freon-113	ND	4.5	NA	1	B4C0386	03/18/2014	03/19/14 20:00	
Hexachlorobutadiene	ND	4.5	NA	1	B4C0386	03/18/2014	03/19/14 20:00	
Isopropylbenzene	ND	4.5	NA	1	B4C0386	03/18/2014	03/19/14 20:00	
m,p-Xylene	ND	9.0	NA	1	B4C0386	03/18/2014	03/19/14 20:00	
Methylene chloride	ND	4.5	NA	1	B4C0386	03/18/2014	03/19/14 20:00	
MTBE	ND	4.5	NA	1	B4C0386	03/18/2014	03/19/14 20:00	
n-Butylbenzene	ND	4.5	NA	1	B4C0386	03/18/2014	03/19/14 20:00	
n-Propylbenzene	ND	4.5	NA	1	B4C0386	03/18/2014	03/19/14 20:00	
Naphthalene	ND	4.5	NA	1	B4C0386	03/18/2014	03/19/14 20:00	
o-Xylene	ND	4.5	NA	1	B4C0386	03/18/2014	03/19/14 20:00	
sec-Butylbenzene	ND	4.5	NA	1	B4C0386	03/18/2014	03/19/14 20:00	
Styrene	ND	4.5	NA	1	B4C0386	03/18/2014	03/19/14 20:00	
tert-Amyl methyl ether	ND	4.5	NA	1	B4C0386	03/18/2014	03/19/14 20:00	
tert-Butanol	ND	90	NA	1	B4C0386	03/18/2014	03/19/14 20:00	
tert-Butylbenzene	ND	4.5	NA	1	B4C0386	03/18/2014	03/19/14 20:00	
Tetrachloroethene	ND	4.5	NA	1	B4C0386	03/18/2014	03/19/14 20:00	
Toluene	ND	4.5	NA	1	B4C0386	03/18/2014	03/19/14 20:00	
trans-1,2-Dichloroethene	ND	4.5	NA	1	B4C0386	03/18/2014	03/19/14 20:00	
trans-1,3-Dichloropropene	ND	4.5	NA	1	B4C0386	03/18/2014	03/19/14 20:00	
Trichloroethene	ND	4.5	NA	1	B4C0386	03/18/2014	03/19/14 20:00	
Trichlorofluoromethane	ND	4.5	NA	1	B4C0386	03/18/2014	03/19/14 20:00	
Vinyl acetate	ND	45	NA	1	B4C0386	03/18/2014	03/19/14 20:00	
Vinyl chloride	ND	4.5	NA	1	B4C0386	03/18/2014	03/19/14 20:00	
Surrogate: 1,2-Dichloroethane-d4	124 %	63 - 167			B4C0386	03/18/2014	03/19/14 20:00	
Surrogate: 4-Bromofluorobenzene	102 %	63 - 130			B4C0386	03/18/2014	03/19/14 20:00	
Surrogate: Dibromofluoromethane	103 %	75 - 146			B4C0386	03/18/2014	03/19/14 20:00	



Certificate of Analysis

Bowyer Environmental Consulting
17011 Beach Blvd., Suite 900
Huntington Beach, CA 92647

Project Number : Del Rey Cleaners, 170101
Report To : Brett Bowyer
Reported : 03/25/2014

Client Sample ID V-17-4-4.5

Lab ID: 1400813-11

Volatile Organic Compounds by EPA 5035/EPA 8260B

Analyst: BD

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Surrogate: Toluene-d8	105 %		78 - 125		B4C0386	03/18/2014	03/19/14 20:00	



Certificate of Analysis

Bowyer Environmental Consulting
17011 Beach Blvd., Suite 900
Huntington Beach, CA 92647

Project Number : Del Rey Cleaners, 170101

Report To : Brett Bowyer

Reported : 03/25/2014

Client Sample ID V-18-4-4.5

Lab ID: 1400813-12

Volatile Organic Compounds by EPA 5035/EPA 8260B

Analyst: BD

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	4.6	NA	1	B4C0368	03/18/2014	03/19/14 13:35	
1,1,1-Trichloroethane	ND	4.6	NA	1	B4C0368	03/18/2014	03/19/14 13:35	
1,1,2,2-Tetrachloroethane	ND	4.6	NA	1	B4C0368	03/18/2014	03/19/14 13:35	
1,1,2-Trichloroethane	ND	4.6	NA	1	B4C0368	03/18/2014	03/19/14 13:35	
1,1-Dichloroethane	ND	4.6	NA	1	B4C0368	03/18/2014	03/19/14 13:35	
1,1-Dichloroethene	ND	4.6	NA	1	B4C0368	03/18/2014	03/19/14 13:35	
1,1-Dichloropropene	ND	4.6	NA	1	B4C0368	03/18/2014	03/19/14 13:35	
1,2,3-Trichloropropane	ND	4.6	NA	1	B4C0368	03/18/2014	03/19/14 13:35	
1,2,3-Trichlorobenzene	ND	4.6	NA	1	B4C0368	03/18/2014	03/19/14 13:35	
1,2,4-Trichlorobenzene	ND	4.6	NA	1	B4C0368	03/18/2014	03/19/14 13:35	
1,2,4-Trimethylbenzene	ND	4.6	NA	1	B4C0368	03/18/2014	03/19/14 13:35	
1,2-Dibromo-3-chloropropane	ND	9.1	NA	1	B4C0368	03/18/2014	03/19/14 13:35	
1,2-Dibromoethane	ND	4.6	NA	1	B4C0368	03/18/2014	03/19/14 13:35	
1,2-Dichlorobenzene	ND	4.6	NA	1	B4C0368	03/18/2014	03/19/14 13:35	
1,2-Dichloroethane	ND	4.6	NA	1	B4C0368	03/18/2014	03/19/14 13:35	
1,2-Dichloropropane	ND	4.6	NA	1	B4C0368	03/18/2014	03/19/14 13:35	
1,3,5-Trimethylbenzene	ND	4.6	NA	1	B4C0368	03/18/2014	03/19/14 13:35	
1,3-Dichlorobenzene	ND	4.6	NA	1	B4C0368	03/18/2014	03/19/14 13:35	
1,3-Dichloropropane	ND	4.6	NA	1	B4C0368	03/18/2014	03/19/14 13:35	
1,4-Dichlorobenzene	ND	4.6	NA	1	B4C0368	03/18/2014	03/19/14 13:35	
2,2-Dichloropropane	ND	4.6	NA	1	B4C0368	03/18/2014	03/19/14 13:35	
2-Chlorotoluene	ND	4.6	NA	1	B4C0368	03/18/2014	03/19/14 13:35	
4-Chlorotoluene	ND	4.6	NA	1	B4C0368	03/18/2014	03/19/14 13:35	
4-Isopropyltoluene	ND	4.6	NA	1	B4C0368	03/18/2014	03/19/14 13:35	
Benzene	ND	4.6	NA	1	B4C0368	03/18/2014	03/19/14 13:35	
Bromobenzene	ND	4.6	NA	1	B4C0368	03/18/2014	03/19/14 13:35	
Bromochloromethane	ND	4.6	NA	1	B4C0368	03/18/2014	03/19/14 13:35	
Bromodichloromethane	ND	4.6	NA	1	B4C0368	03/18/2014	03/19/14 13:35	
Bromoform	ND	4.6	NA	1	B4C0368	03/18/2014	03/19/14 13:35	
Bromomethane	ND	4.6	NA	1	B4C0368	03/18/2014	03/19/14 13:35	
Carbon disulfide	ND	4.6	NA	1	B4C0368	03/18/2014	03/19/14 13:35	
Carbon tetrachloride	ND	4.6	NA	1	B4C0368	03/18/2014	03/19/14 13:35	
Chlorobenzene	ND	4.6	NA	1	B4C0368	03/18/2014	03/19/14 13:35	
Chloroethane	ND	4.6	NA	1	B4C0368	03/18/2014	03/19/14 13:35	
Chloroform	ND	4.6	NA	1	B4C0368	03/18/2014	03/19/14 13:35	
Chloromethane	ND	4.6	NA	1	B4C0368	03/18/2014	03/19/14 13:35	



Certificate of Analysis

Bowyer Environmental Consulting
17011 Beach Blvd., Suite 900
Huntington Beach, CA 92647

Project Number : Del Rey Cleaners, 170101

Report To : Brett Bowyer

Reported : 03/25/2014

Client Sample ID V-18-4-4.5

Lab ID: 1400813-12

Volatile Organic Compounds by EPA 5035/EPA 8260B

Analyst: BD

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
cis-1,2-Dichloroethene	ND	4.6	NA	1	B4C0368	03/18/2014	03/19/14 13:35	
cis-1,3-Dichloropropene	ND	4.6	NA	1	B4C0368	03/18/2014	03/19/14 13:35	
Di-isopropyl ether	ND	4.6	NA	1	B4C0368	03/18/2014	03/19/14 13:35	
Dibromochloromethane	ND	4.6	NA	1	B4C0368	03/18/2014	03/19/14 13:35	
Dibromomethane	ND	4.6	NA	1	B4C0368	03/18/2014	03/19/14 13:35	
Dichlorodifluoromethane	ND	4.6	NA	1	B4C0368	03/18/2014	03/19/14 13:35	
Ethyl Acetate	ND	46	NA	1	B4C0368	03/18/2014	03/19/14 13:35	
Ethyl Ether	ND	46	NA	1	B4C0368	03/18/2014	03/19/14 13:35	
Ethyl tert-butyl ether	ND	4.6	NA	1	B4C0368	03/18/2014	03/19/14 13:35	
Ethylbenzene	ND	4.6	NA	1	B4C0368	03/18/2014	03/19/14 13:35	
Freon-113	ND	4.6	NA	1	B4C0368	03/18/2014	03/19/14 13:35	
Hexachlorobutadiene	ND	4.6	NA	1	B4C0368	03/18/2014	03/19/14 13:35	
Isopropylbenzene	ND	4.6	NA	1	B4C0368	03/18/2014	03/19/14 13:35	
m,p-Xylene	ND	9.1	NA	1	B4C0368	03/18/2014	03/19/14 13:35	
Methylene chloride	ND	4.6	NA	1	B4C0368	03/18/2014	03/19/14 13:35	
MTBE	ND	4.6	NA	1	B4C0368	03/18/2014	03/19/14 13:35	
n-Butylbenzene	ND	4.6	NA	1	B4C0368	03/18/2014	03/19/14 13:35	
n-Propylbenzene	ND	4.6	NA	1	B4C0368	03/18/2014	03/19/14 13:35	
Naphthalene	ND	4.6	NA	1	B4C0368	03/18/2014	03/19/14 13:35	
o-Xylene	ND	4.6	NA	1	B4C0368	03/18/2014	03/19/14 13:35	
sec-Butylbenzene	ND	4.6	NA	1	B4C0368	03/18/2014	03/19/14 13:35	
Styrene	ND	4.6	NA	1	B4C0368	03/18/2014	03/19/14 13:35	
tert-Amyl methyl ether	ND	4.6	NA	1	B4C0368	03/18/2014	03/19/14 13:35	
tert-Butanol	ND	91	NA	1	B4C0368	03/18/2014	03/19/14 13:35	
tert-Butylbenzene	ND	4.6	NA	1	B4C0368	03/18/2014	03/19/14 13:35	
Tetrachloroethene	11	4.6	NA	1	B4C0368	03/18/2014	03/19/14 13:35	
Toluene	ND	4.6	NA	1	B4C0368	03/18/2014	03/19/14 13:35	
trans-1,2-Dichloroethene	ND	4.6	NA	1	B4C0368	03/18/2014	03/19/14 13:35	
trans-1,3-Dichloropropene	ND	4.6	NA	1	B4C0368	03/18/2014	03/19/14 13:35	
Trichloroethene	ND	4.6	NA	1	B4C0368	03/18/2014	03/19/14 13:35	
Trichlorofluoromethane	ND	4.6	NA	1	B4C0368	03/18/2014	03/19/14 13:35	
Vinyl acetate	ND	46	NA	1	B4C0368	03/18/2014	03/19/14 13:35	
Vinyl chloride	ND	4.6	NA	1	B4C0368	03/18/2014	03/19/14 13:35	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>141 %</i>	<i>63 - 167</i>			B4C0368	03/18/2014	<i>03/19/14 13:35</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>98.8 %</i>	<i>63 - 130</i>			B4C0368	03/18/2014	<i>03/19/14 13:35</i>	
<i>Surrogate: Dibromofluoromethane</i>	<i>113 %</i>	<i>75 - 146</i>			B4C0368	03/18/2014	<i>03/19/14 13:35</i>	



Certificate of Analysis

Bowyer Environmental Consulting
17011 Beach Blvd., Suite 900
Huntington Beach, CA 92647

Project Number : Del Rey Cleaners, 170101
Report To : Brett Bowyer
Reported : 03/25/2014

Client Sample ID V-18-4-4.5

Lab ID: 1400813-12

Volatile Organic Compounds by EPA 5035/EPA 8260B

Analyst: BD

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Surrogate: Toluene-d8	106 %		78 - 125		B4C0368	03/18/2014	03/19/14 13:35	



Certificate of Analysis

Bowyer Environmental Consulting

17011 Beach Blvd., Suite 900

Huntington Beach, CA 92647

Project Number : Del Rey Cleaners, 170101

Report To : Brett Bowyer

Reported : 03/25/2014

Client Sample ID V-19-4-4.5

Lab ID: 1400813-13

Volatile Organic Compounds by EPA 5035/EPA 8260B

Analyst: BD

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	4.7	NA	1	B4C0368	03/18/2014	03/19/14 13:53	
1,1,1-Trichloroethane	ND	4.7	NA	1	B4C0368	03/18/2014	03/19/14 13:53	
1,1,2,2-Tetrachloroethane	ND	4.7	NA	1	B4C0368	03/18/2014	03/19/14 13:53	
1,1,2-Trichloroethane	ND	4.7	NA	1	B4C0368	03/18/2014	03/19/14 13:53	
1,1-Dichloroethane	ND	4.7	NA	1	B4C0368	03/18/2014	03/19/14 13:53	
1,1-Dichloroethene	ND	4.7	NA	1	B4C0368	03/18/2014	03/19/14 13:53	
1,1-Dichloropropene	ND	4.7	NA	1	B4C0368	03/18/2014	03/19/14 13:53	
1,2,3-Trichloropropane	ND	4.7	NA	1	B4C0368	03/18/2014	03/19/14 13:53	
1,2,3-Trichlorobenzene	ND	4.7	NA	1	B4C0368	03/18/2014	03/19/14 13:53	
1,2,4-Trichlorobenzene	ND	4.7	NA	1	B4C0368	03/18/2014	03/19/14 13:53	
1,2,4-Trimethylbenzene	ND	4.7	NA	1	B4C0368	03/18/2014	03/19/14 13:53	
1,2-Dibromo-3-chloropropane	ND	9.5	NA	1	B4C0368	03/18/2014	03/19/14 13:53	
1,2-Dibromoethane	ND	4.7	NA	1	B4C0368	03/18/2014	03/19/14 13:53	
1,2-Dichlorobenzene	ND	4.7	NA	1	B4C0368	03/18/2014	03/19/14 13:53	
1,2-Dichloroethane	ND	4.7	NA	1	B4C0368	03/18/2014	03/19/14 13:53	
1,2-Dichloropropane	ND	4.7	NA	1	B4C0368	03/18/2014	03/19/14 13:53	
1,3,5-Trimethylbenzene	ND	4.7	NA	1	B4C0368	03/18/2014	03/19/14 13:53	
1,3-Dichlorobenzene	ND	4.7	NA	1	B4C0368	03/18/2014	03/19/14 13:53	
1,3-Dichloropropane	ND	4.7	NA	1	B4C0368	03/18/2014	03/19/14 13:53	
1,4-Dichlorobenzene	ND	4.7	NA	1	B4C0368	03/18/2014	03/19/14 13:53	
2,2-Dichloropropane	ND	4.7	NA	1	B4C0368	03/18/2014	03/19/14 13:53	
2-Chlorotoluene	ND	4.7	NA	1	B4C0368	03/18/2014	03/19/14 13:53	
4-Chlorotoluene	ND	4.7	NA	1	B4C0368	03/18/2014	03/19/14 13:53	
4-Isopropyltoluene	ND	4.7	NA	1	B4C0368	03/18/2014	03/19/14 13:53	
Benzene	ND	4.7	NA	1	B4C0368	03/18/2014	03/19/14 13:53	
Bromobenzene	ND	4.7	NA	1	B4C0368	03/18/2014	03/19/14 13:53	
Bromochloromethane	ND	4.7	NA	1	B4C0368	03/18/2014	03/19/14 13:53	
Bromodichloromethane	ND	4.7	NA	1	B4C0368	03/18/2014	03/19/14 13:53	
Bromoform	ND	4.7	NA	1	B4C0368	03/18/2014	03/19/14 13:53	
Bromomethane	ND	4.7	NA	1	B4C0368	03/18/2014	03/19/14 13:53	
Carbon disulfide	ND	4.7	NA	1	B4C0368	03/18/2014	03/19/14 13:53	
Carbon tetrachloride	ND	4.7	NA	1	B4C0368	03/18/2014	03/19/14 13:53	
Chlorobenzene	ND	4.7	NA	1	B4C0368	03/18/2014	03/19/14 13:53	
Chloroethane	ND	4.7	NA	1	B4C0368	03/18/2014	03/19/14 13:53	
Chloroform	ND	4.7	NA	1	B4C0368	03/18/2014	03/19/14 13:53	
Chloromethane	ND	4.7	NA	1	B4C0368	03/18/2014	03/19/14 13:53	



Certificate of Analysis

Bowyer Environmental Consulting
17011 Beach Blvd., Suite 900
Huntington Beach, CA 92647

Project Number : Del Rey Cleaners, 170101

Report To : Brett Bowyer

Reported : 03/25/2014

Client Sample ID V-19-4-4.5

Lab ID: 1400813-13

Volatile Organic Compounds by EPA 5035/EPA 8260B

Analyst: BD

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
cis-1,2-Dichloroethene	ND	4.7	NA	1	B4C0368	03/18/2014	03/19/14 13:53	
cis-1,3-Dichloropropene	ND	4.7	NA	1	B4C0368	03/18/2014	03/19/14 13:53	
Di-isopropyl ether	ND	4.7	NA	1	B4C0368	03/18/2014	03/19/14 13:53	
Dibromochloromethane	ND	4.7	NA	1	B4C0368	03/18/2014	03/19/14 13:53	
Dibromomethane	ND	4.7	NA	1	B4C0368	03/18/2014	03/19/14 13:53	
Dichlorodifluoromethane	ND	4.7	NA	1	B4C0368	03/18/2014	03/19/14 13:53	
Ethyl Acetate	ND	47	NA	1	B4C0368	03/18/2014	03/19/14 13:53	
Ethyl Ether	ND	47	NA	1	B4C0368	03/18/2014	03/19/14 13:53	
Ethyl tert-butyl ether	ND	4.7	NA	1	B4C0368	03/18/2014	03/19/14 13:53	
Ethylbenzene	ND	4.7	NA	1	B4C0368	03/18/2014	03/19/14 13:53	
Freon-113	ND	4.7	NA	1	B4C0368	03/18/2014	03/19/14 13:53	
Hexachlorobutadiene	ND	4.7	NA	1	B4C0368	03/18/2014	03/19/14 13:53	
Isopropylbenzene	ND	4.7	NA	1	B4C0368	03/18/2014	03/19/14 13:53	
m,p-Xylene	ND	9.5	NA	1	B4C0368	03/18/2014	03/19/14 13:53	
Methylene chloride	ND	4.7	NA	1	B4C0368	03/18/2014	03/19/14 13:53	
MTBE	ND	4.7	NA	1	B4C0368	03/18/2014	03/19/14 13:53	
n-Butylbenzene	ND	4.7	NA	1	B4C0368	03/18/2014	03/19/14 13:53	
n-Propylbenzene	ND	4.7	NA	1	B4C0368	03/18/2014	03/19/14 13:53	
Naphthalene	ND	4.7	NA	1	B4C0368	03/18/2014	03/19/14 13:53	
o-Xylene	ND	4.7	NA	1	B4C0368	03/18/2014	03/19/14 13:53	
sec-Butylbenzene	ND	4.7	NA	1	B4C0368	03/18/2014	03/19/14 13:53	
Styrene	ND	4.7	NA	1	B4C0368	03/18/2014	03/19/14 13:53	
tert-Amyl methyl ether	ND	4.7	NA	1	B4C0368	03/18/2014	03/19/14 13:53	
tert-Butanol	ND	95	NA	1	B4C0368	03/18/2014	03/19/14 13:53	
tert-Butylbenzene	ND	4.7	NA	1	B4C0368	03/18/2014	03/19/14 13:53	
Tetrachloroethene	13	4.7	NA	1	B4C0368	03/18/2014	03/19/14 13:53	
Toluene	ND	4.7	NA	1	B4C0368	03/18/2014	03/19/14 13:53	
trans-1,2-Dichloroethene	ND	4.7	NA	1	B4C0368	03/18/2014	03/19/14 13:53	
trans-1,3-Dichloropropene	ND	4.7	NA	1	B4C0368	03/18/2014	03/19/14 13:53	
Trichloroethene	ND	4.7	NA	1	B4C0368	03/18/2014	03/19/14 13:53	
Trichlorofluoromethane	ND	4.7	NA	1	B4C0368	03/18/2014	03/19/14 13:53	
Vinyl acetate	ND	47	NA	1	B4C0368	03/18/2014	03/19/14 13:53	
Vinyl chloride	ND	4.7	NA	1	B4C0368	03/18/2014	03/19/14 13:53	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>147 %</i>	<i>63 - 167</i>			B4C0368	03/18/2014	<i>03/19/14 13:53</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>98.8 %</i>	<i>63 - 130</i>			B4C0368	03/18/2014	<i>03/19/14 13:53</i>	
<i>Surrogate: Dibromofluoromethane</i>	<i>114 %</i>	<i>75 - 146</i>			B4C0368	03/18/2014	<i>03/19/14 13:53</i>	



Certificate of Analysis

Bowyer Environmental Consulting
17011 Beach Blvd., Suite 900
Huntington Beach, CA 92647

Project Number : Del Rey Cleaners, 170101
Report To : Brett Bowyer
Reported : 03/25/2014

Client Sample ID V-19-4-4.5

Lab ID: 1400813-13

Volatile Organic Compounds by EPA 5035/EPA 8260B

Analyst: BD

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Surrogate: Toluene-d8	106 %		78 - 125		B4C0368	03/18/2014	03/19/14 13:53	



Certificate of Analysis

Bowyer Environmental Consulting

17011 Beach Blvd., Suite 900

Huntington Beach, CA 92647

Project Number : Del Rey Cleaners, 170101

Report To : Brett Bowyer

Reported : 03/25/2014

Client Sample ID V-20-4.5-5

Lab ID: 1400813-14

Volatile Organic Compounds by EPA 5035/EPA 8260B

Analyst: BD

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	4.4	NA	1	B4C0368	03/18/2014	03/19/14 14:12	
1,1,1-Trichloroethane	ND	4.4	NA	1	B4C0368	03/18/2014	03/19/14 14:12	
1,1,2,2-Tetrachloroethane	ND	4.4	NA	1	B4C0368	03/18/2014	03/19/14 14:12	
1,1,2-Trichloroethane	ND	4.4	NA	1	B4C0368	03/18/2014	03/19/14 14:12	
1,1-Dichloroethane	ND	4.4	NA	1	B4C0368	03/18/2014	03/19/14 14:12	
1,1-Dichloroethene	ND	4.4	NA	1	B4C0368	03/18/2014	03/19/14 14:12	
1,1-Dichloropropene	ND	4.4	NA	1	B4C0368	03/18/2014	03/19/14 14:12	
1,2,3-Trichloropropane	ND	4.4	NA	1	B4C0368	03/18/2014	03/19/14 14:12	
1,2,3-Trichlorobenzene	ND	4.4	NA	1	B4C0368	03/18/2014	03/19/14 14:12	
1,2,4-Trichlorobenzene	ND	4.4	NA	1	B4C0368	03/18/2014	03/19/14 14:12	
1,2,4-Trimethylbenzene	ND	4.4	NA	1	B4C0368	03/18/2014	03/19/14 14:12	
1,2-Dibromo-3-chloropropane	ND	8.9	NA	1	B4C0368	03/18/2014	03/19/14 14:12	
1,2-Dibromoethane	ND	4.4	NA	1	B4C0368	03/18/2014	03/19/14 14:12	
1,2-Dichlorobenzene	ND	4.4	NA	1	B4C0368	03/18/2014	03/19/14 14:12	
1,2-Dichloroethane	ND	4.4	NA	1	B4C0368	03/18/2014	03/19/14 14:12	
1,2-Dichloropropane	ND	4.4	NA	1	B4C0368	03/18/2014	03/19/14 14:12	
1,3,5-Trimethylbenzene	ND	4.4	NA	1	B4C0368	03/18/2014	03/19/14 14:12	
1,3-Dichlorobenzene	ND	4.4	NA	1	B4C0368	03/18/2014	03/19/14 14:12	
1,3-Dichloropropane	ND	4.4	NA	1	B4C0368	03/18/2014	03/19/14 14:12	
1,4-Dichlorobenzene	ND	4.4	NA	1	B4C0368	03/18/2014	03/19/14 14:12	
2,2-Dichloropropane	ND	4.4	NA	1	B4C0368	03/18/2014	03/19/14 14:12	
2-Chlorotoluene	ND	4.4	NA	1	B4C0368	03/18/2014	03/19/14 14:12	
4-Chlorotoluene	ND	4.4	NA	1	B4C0368	03/18/2014	03/19/14 14:12	
4-Isopropyltoluene	ND	4.4	NA	1	B4C0368	03/18/2014	03/19/14 14:12	
Benzene	ND	4.4	NA	1	B4C0368	03/18/2014	03/19/14 14:12	
Bromobenzene	ND	4.4	NA	1	B4C0368	03/18/2014	03/19/14 14:12	
Bromochloromethane	ND	4.4	NA	1	B4C0368	03/18/2014	03/19/14 14:12	
Bromodichloromethane	ND	4.4	NA	1	B4C0368	03/18/2014	03/19/14 14:12	
Bromoform	ND	4.4	NA	1	B4C0368	03/18/2014	03/19/14 14:12	
Bromomethane	ND	4.4	NA	1	B4C0368	03/18/2014	03/19/14 14:12	
Carbon disulfide	ND	4.4	NA	1	B4C0368	03/18/2014	03/19/14 14:12	
Carbon tetrachloride	ND	4.4	NA	1	B4C0368	03/18/2014	03/19/14 14:12	
Chlorobenzene	ND	4.4	NA	1	B4C0368	03/18/2014	03/19/14 14:12	
Chloroethane	ND	4.4	NA	1	B4C0368	03/18/2014	03/19/14 14:12	
Chloroform	ND	4.4	NA	1	B4C0368	03/18/2014	03/19/14 14:12	
Chloromethane	ND	4.4	NA	1	B4C0368	03/18/2014	03/19/14 14:12	



Certificate of Analysis

Bowyer Environmental Consulting
17011 Beach Blvd., Suite 900
Huntington Beach, CA 92647

Project Number : Del Rey Cleaners, 170101

Report To : Brett Bowyer

Reported : 03/25/2014

Client Sample ID V-20-4.5-5

Lab ID: 1400813-14

Volatile Organic Compounds by EPA 5035/EPA 8260B

Analyst: BD

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
cis-1,2-Dichloroethene	7.0	4.4	NA	1	B4C0368	03/18/2014	03/19/14 14:12	
cis-1,3-Dichloropropene	ND	4.4	NA	1	B4C0368	03/18/2014	03/19/14 14:12	
Di-isopropyl ether	ND	4.4	NA	1	B4C0368	03/18/2014	03/19/14 14:12	
Dibromochloromethane	ND	4.4	NA	1	B4C0368	03/18/2014	03/19/14 14:12	
Dibromomethane	ND	4.4	NA	1	B4C0368	03/18/2014	03/19/14 14:12	
Dichlorodifluoromethane	ND	4.4	NA	1	B4C0368	03/18/2014	03/19/14 14:12	
Ethyl Acetate	ND	44	NA	1	B4C0368	03/18/2014	03/19/14 14:12	
Ethyl Ether	ND	44	NA	1	B4C0368	03/18/2014	03/19/14 14:12	
Ethyl tert-butyl ether	ND	4.4	NA	1	B4C0368	03/18/2014	03/19/14 14:12	
Ethylbenzene	ND	4.4	NA	1	B4C0368	03/18/2014	03/19/14 14:12	
Freon-113	ND	4.4	NA	1	B4C0368	03/18/2014	03/19/14 14:12	
Hexachlorobutadiene	ND	4.4	NA	1	B4C0368	03/18/2014	03/19/14 14:12	
Isopropylbenzene	ND	4.4	NA	1	B4C0368	03/18/2014	03/19/14 14:12	
m,p-Xylene	ND	8.9	NA	1	B4C0368	03/18/2014	03/19/14 14:12	
Methylene chloride	ND	4.4	NA	1	B4C0368	03/18/2014	03/19/14 14:12	
MTBE	ND	4.4	NA	1	B4C0368	03/18/2014	03/19/14 14:12	
n-Butylbenzene	ND	4.4	NA	1	B4C0368	03/18/2014	03/19/14 14:12	
n-Propylbenzene	ND	4.4	NA	1	B4C0368	03/18/2014	03/19/14 14:12	
Naphthalene	ND	4.4	NA	1	B4C0368	03/18/2014	03/19/14 14:12	
o-Xylene	ND	4.4	NA	1	B4C0368	03/18/2014	03/19/14 14:12	
sec-Butylbenzene	ND	4.4	NA	1	B4C0368	03/18/2014	03/19/14 14:12	
Styrene	ND	4.4	NA	1	B4C0368	03/18/2014	03/19/14 14:12	
tert-Amyl methyl ether	ND	4.4	NA	1	B4C0368	03/18/2014	03/19/14 14:12	
tert-Butanol	ND	89	NA	1	B4C0368	03/18/2014	03/19/14 14:12	
tert-Butylbenzene	ND	4.4	NA	1	B4C0368	03/18/2014	03/19/14 14:12	
Tetrachloroethene	20	4.4	NA	1	B4C0368	03/18/2014	03/19/14 14:12	
Toluene	ND	4.4	NA	1	B4C0368	03/18/2014	03/19/14 14:12	
trans-1,2-Dichloroethene	ND	4.4	NA	1	B4C0368	03/18/2014	03/19/14 14:12	
trans-1,3-Dichloropropene	ND	4.4	NA	1	B4C0368	03/18/2014	03/19/14 14:12	
Trichloroethene	ND	4.4	NA	1	B4C0368	03/18/2014	03/19/14 14:12	
Trichlorofluoromethane	ND	4.4	NA	1	B4C0368	03/18/2014	03/19/14 14:12	
Vinyl acetate	ND	44	NA	1	B4C0368	03/18/2014	03/19/14 14:12	
Vinyl chloride	ND	4.4	NA	1	B4C0368	03/18/2014	03/19/14 14:12	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>146 %</i>	<i>63 - 167</i>			B4C0368	03/18/2014	<i>03/19/14 14:12</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>97.5 %</i>	<i>63 - 130</i>			B4C0368	03/18/2014	<i>03/19/14 14:12</i>	
<i>Surrogate: Dibromofluoromethane</i>	<i>119 %</i>	<i>75 - 146</i>			B4C0368	03/18/2014	<i>03/19/14 14:12</i>	



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Bowyer Environmental Consulting
17011 Beach Blvd., Suite 900
Huntington Beach, CA 92647

Project Number : Del Rey Cleaners, 170101
Report To : Brett Bowyer
Reported : 03/25/2014

Client Sample ID V-20-4.5-5

Lab ID: 1400813-14

Volatile Organic Compounds by EPA 5035/EPA 8260B

Analyst: BD

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
<i>Surrogate: Toluene-d8</i>	<i>108 %</i>		<i>78 - 125</i>		B4C0368	03/18/2014	<i>03/19/14 14:12</i>	



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Reported : 03/25/2014

QUALITY CONTROL SECTION

Volatile Organic Compounds by EPA 5035/EPA 8260B - Quality Control

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B4C0363 - MSVOAS

Blank (B4C0363-BLK1)

Prepared: 3/18/2014 Analyzed: 3/18/2014

1,1,1,2-Tetrachloroethane	ND	5.0				NR			
1,1,1-Trichloroethane	ND	5.0				NR			
1,1,2,2-Tetrachloroethane	ND	5.0				NR			
1,1,2-Trichloroethane	ND	5.0				NR			
1,1-Dichloroethane	ND	5.0				NR			
1,1-Dichloroethene	ND	5.0				NR			
1,1-Dichloropropene	ND	5.0				NR			
1,2,3-Trichloropropane	ND	5.0				NR			
1,2,3-Trichlorobenzene	ND	5.0				NR			
1,2,4-Trichlorobenzene	ND	5.0				NR			
1,2,4-Trimethylbenzene	ND	5.0				NR			
1,2-Dibromo-3-chloropropane	ND	10				NR			
1,2-Dibromoethane	ND	5.0				NR			
1,2-Dichlorobenzene	ND	5.0				NR			
1,2-Dichloroethane	ND	5.0				NR			
1,2-Dichloropropane	ND	5.0				NR			
1,3,5-Trimethylbenzene	ND	5.0				NR			
1,3-Dichlorobenzene	ND	5.0				NR			
1,3-Dichloropropane	ND	5.0				NR			
1,4-Dichlorobenzene	ND	5.0				NR			
2,2-Dichloropropane	ND	5.0				NR			
2-Chlorotoluene	ND	5.0				NR			
4-Chlorotoluene	ND	5.0				NR			
4-Isopropyltoluene	ND	5.0				NR			
Benzene	ND	5.0				NR			
Bromobenzene	ND	5.0				NR			
Bromochloromethane	ND	5.0				NR			
Bromodichloromethane	ND	5.0				NR			
Bromoform	ND	5.0				NR			
Bromomethane	ND	5.0				NR			
Carbon disulfide	ND	5.0				NR			
Carbon tetrachloride	ND	5.0				NR			
Chlorobenzene	ND	5.0				NR			
Chloroethane	ND	5.0				NR			
Chloroform	ND	5.0				NR			
Chloromethane	ND	5.0				NR			
cis-1,2-Dichloroethene	ND	5.0				NR			
cis-1,3-Dichloropropene	ND	5.0				NR			



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Volatile Organic Compounds by EPA 5035/EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B4C0363 - MSVOAS (continued)

Blank (B4C0363-BLK1) - Continued

Prepared: 3/18/2014 Analyzed: 3/18/2014

Di-isopropyl ether	ND	5.0			NR
Dibromochloromethane	ND	5.0			NR
Dibromomethane	ND	5.0			NR
Dichlorodifluoromethane	ND	5.0			NR
Ethyl Acetate	ND	50			NR
Ethyl Ether	ND	50			NR
Ethyl tert-butyl ether	ND	5.0			NR
Ethylbenzene	ND	5.0			NR
Freon-113	ND	5.0			NR
Hexachlorobutadiene	ND	5.0			NR
Isopropylbenzene	ND	5.0			NR
m,p-Xylene	ND	10			NR
Methylene chloride	ND	5.0			NR
MTBE	ND	5.0			NR
n-Butylbenzene	ND	5.0			NR
n-Propylbenzene	ND	5.0			NR
Naphthalene	ND	5.0			NR
o-Xylene	ND	5.0			NR
sec-Butylbenzene	ND	5.0			NR
Styrene	ND	5.0			NR
tert-Amyl methyl ether	ND	5.0			NR
tert-Butanol	ND	100			NR
tert-Butylbenzene	ND	5.0			NR
Tetrachloroethene	ND	5.0			NR
Toluene	ND	5.0			NR
trans-1,2-Dichloroethene	ND	5.0			NR
trans-1,3-Dichloropropene	ND	5.0			NR
Trichloroethene	ND	5.0			NR
Trichlorofluoromethane	ND	5.0			NR
Vinyl acetate	ND	50			NR
Vinyl chloride	ND	5.0			NR

Surrogate: 1,2-Dichloroethane-d4	58.61		50.0000	117	63 - 167
Surrogate: 4-Bromofluorobenzene	47.67		50.0000	95.3	63 - 130
Surrogate: Dibromofluoromethane	57.04		50.0000	114	75 - 146
Surrogate: Toluene-d8	51.71		50.0000	103	78 - 125

LCS (B4C0363-BS1)

Prepared: 3/18/2014 Analyzed: 3/18/2014

1,1-Dichloroethene	55.7100	5.0	50.0000	111	62 - 129
Benzene	56.1200	5.0	50.0000	112	82 - 121
Chlorobenzene	54.0100	5.0	50.0000	108	83 - 132



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Volatile Organic Compounds by EPA 5035/EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B4C0363 - MSVOAS (continued)

LCS (B4C0363-BS1) - Continued

Prepared: 3/18/2014 Analyzed: 3/18/2014

MTBE	52.9000	5.0	50.0000		106	55 - 138			
Toluene	55.9000	5.0	50.0000		112	80 - 129			
Trichloroethene	55.8300	5.0	50.0000		112	75 - 133			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>55.43</i>		<i>50.0000</i>		<i>111</i>	<i>63 - 167</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>50.87</i>		<i>50.0000</i>		<i>102</i>	<i>63 - 130</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>57.05</i>		<i>50.0000</i>		<i>114</i>	<i>75 - 146</i>			
<i>Surrogate: Toluene-d8</i>	<i>53.16</i>		<i>50.0000</i>		<i>106</i>	<i>78 - 125</i>			

Duplicate (B4C0363-DUP1)

Source: 1400806-24

Prepared: 3/18/2014 Analyzed: 3/18/2014

1,1-Dichloroethene	ND	5.0		ND	NR			20	
Benzene	ND	5.0		ND	NR			20	
Chlorobenzene	ND	5.0		ND	NR			20	
MTBE	ND	5.0		ND	NR			20	
Toluene	ND	5.0		ND	NR			20	
Trichloroethene	ND	5.0		ND	NR			20	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>60.33</i>		<i>50.0000</i>		<i>121</i>	<i>63 - 167</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>47.87</i>		<i>50.0000</i>		<i>95.7</i>	<i>63 - 130</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>57.76</i>		<i>50.0000</i>		<i>116</i>	<i>75 - 146</i>			
<i>Surrogate: Toluene-d8</i>	<i>53.03</i>		<i>50.0000</i>		<i>106</i>	<i>78 - 125</i>			

Matrix Spike (B4C0363-MS1)

Source: 1400806-24

Prepared: 3/18/2014 Analyzed: 3/18/2014

1,1-Dichloroethene	51.1400	5.0	50.0000	ND	102	48 - 127			
Benzene	50.8200	5.0	50.0000	ND	102	57 - 125			
Chlorobenzene	49.8800	5.0	50.0000	ND	99.8	42 - 141			
MTBE	49.6400	5.0	50.0000	ND	99.3	44 - 137			
Toluene	53.4700	5.0	50.0000	ND	107	40 - 143			
Trichloroethene	50.1600	5.0	50.0000	ND	100	47 - 148			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>57.94</i>		<i>50.0000</i>		<i>116</i>	<i>63 - 167</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>50.77</i>		<i>50.0000</i>		<i>102</i>	<i>63 - 130</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>56.47</i>		<i>50.0000</i>		<i>113</i>	<i>75 - 146</i>			
<i>Surrogate: Toluene-d8</i>	<i>54.16</i>		<i>50.0000</i>		<i>108</i>	<i>78 - 125</i>			

Matrix Spike Dup (B4C0363-MSD1)

Source: 1400806-24

Prepared: 3/18/2014 Analyzed: 3/18/2014

1,1-Dichloroethene	50.3100	5.0	50.0000	ND	101	48 - 127	1.64	20	
Benzene	49.5100	5.0	50.0000	ND	99.0	57 - 125	2.61	20	
Chlorobenzene	48.7200	5.0	50.0000	ND	97.4	42 - 141	2.35	20	
MTBE	48.4400	5.0	50.0000	ND	96.9	44 - 137	2.45	20	
Toluene	51.5300	5.0	50.0000	ND	103	40 - 143	3.70	20	
Trichloroethene	48.8200	5.0	50.0000	ND	97.6	47 - 148	2.71	20	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>57.05</i>		<i>50.0000</i>		<i>114</i>	<i>63 - 167</i>			



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Project Number : Del Rey Cleaners, 170101
Report To : Brett Bowyer
Reported : 03/25/2014

Volatile Organic Compounds by EPA 5035/EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
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Batch B4C0363 - MSVOAS (continued)

Matrix Spike Dup (B4C0363-MSD1) - Continued

Source: 1400806-24

Prepared: 3/18/2014 Analyzed: 3/18/2014

Surrogate: 4-Bromofluorobenzene	50.44		50.0000		101	63 - 130			
Surrogate: Dibromofluoromethane	54.71		50.0000		109	75 - 146			
Surrogate: Toluene-d8	52.06		50.0000		104	78 - 125			

Batch B4C0368 - MSVOAS

Blank (B4C0368-BLK1)

Prepared: 3/19/2014 Analyzed: 3/19/2014

1,1,1,2-Tetrachloroethane	ND	5.0			NR				
1,1,1-Trichloroethane	ND	5.0			NR				
1,1,2,2-Tetrachloroethane	ND	5.0			NR				
1,1,2-Trichloroethane	ND	5.0			NR				
1,1-Dichloroethane	ND	5.0			NR				
1,1-Dichloroethene	ND	5.0			NR				
1,1-Dichloropropene	ND	5.0			NR				
1,2,3-Trichloropropane	ND	5.0			NR				
1,2,3-Trichlorobenzene	ND	5.0			NR				
1,2,4-Trichlorobenzene	ND	5.0			NR				
1,2,4-Trimethylbenzene	ND	5.0			NR				
1,2-Dibromo-3-chloropropane	ND	10			NR				
1,2-Dibromoethane	ND	5.0			NR				
1,2-Dichlorobenzene	ND	5.0			NR				
1,2-Dichloroethane	ND	5.0			NR				
1,2-Dichloropropane	ND	5.0			NR				
1,3,5-Trimethylbenzene	ND	5.0			NR				
1,3-Dichlorobenzene	ND	5.0			NR				
1,3-Dichloropropane	ND	5.0			NR				
1,4-Dichlorobenzene	ND	5.0			NR				
2,2-Dichloropropane	ND	5.0			NR				
2-Chlorotoluene	ND	5.0			NR				
4-Chlorotoluene	ND	5.0			NR				
4-Isopropyltoluene	ND	5.0			NR				
Benzene	ND	5.0			NR				
Bromobenzene	ND	5.0			NR				
Bromochloromethane	ND	5.0			NR				
Bromodichloromethane	ND	5.0			NR				
Bromoform	ND	5.0			NR				
Bromomethane	ND	5.0			NR				
Carbon disulfide	ND	5.0			NR				
Carbon tetrachloride	ND	5.0			NR				
Chlorobenzene	ND	5.0			NR				



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Project Number : Del Rey Cleaners, 170101

Report To : Brett Bowyer

Reported : 03/25/2014

Volatile Organic Compounds by EPA 5035/EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B4C0368 - MSVOAS (continued)

Blank (B4C0368-BLK1) - Continued

Prepared: 3/19/2014 Analyzed: 3/19/2014

Chloroethane	ND	5.0			NR
Chloroform	ND	5.0			NR
Chloromethane	ND	5.0			NR
cis-1,2-Dichloroethene	ND	5.0			NR
cis-1,3-Dichloropropene	ND	5.0			NR
Di-isopropyl ether	ND	5.0			NR
Dibromochloromethane	ND	5.0			NR
Dibromomethane	ND	5.0			NR
Dichlorodifluoromethane	ND	5.0			NR
Ethyl Acetate	ND	50			NR
Ethyl Ether	ND	50			NR
Ethyl tert-butyl ether	ND	5.0			NR
Ethylbenzene	ND	5.0			NR
Freon-113	ND	5.0			NR
Hexachlorobutadiene	ND	5.0			NR
Isopropylbenzene	ND	5.0			NR
m,p-Xylene	ND	10			NR
Methylene chloride	ND	5.0			NR
MTBE	ND	5.0			NR
n-Butylbenzene	ND	5.0			NR
n-Propylbenzene	ND	5.0			NR
Naphthalene	ND	5.0			NR
o-Xylene	ND	5.0			NR
sec-Butylbenzene	ND	5.0			NR
Styrene	ND	5.0			NR
tert-Amyl methyl ether	ND	5.0			NR
tert-Butanol	ND	100			NR
tert-Butylbenzene	ND	5.0			NR
Tetrachloroethene	ND	5.0			NR
Toluene	ND	5.0			NR
trans-1,2-Dichloroethene	ND	5.0			NR
trans-1,3-Dichloropropene	ND	5.0			NR
Trichloroethene	ND	5.0			NR
Trichlorofluoromethane	ND	5.0			NR
Vinyl acetate	ND	50			NR
Vinyl chloride	ND	5.0			NR

Surrogate: 1,2-Dichloroethane-d4	61.64	50.0000	123	63 - 167
Surrogate: 4-Bromofluorobenzene	46.85	50.0000	93.7	63 - 130
Surrogate: Dibromofluoromethane	53.71	50.0000	107	75 - 146
Surrogate: Toluene-d8	50.78	50.0000	102	78 - 125



Certificate of Analysis

Bowyer Environmental Consulting
17011 Beach Blvd., Suite 900
Huntington Beach, CA 92647

Project Number : Del Rey Cleaners, 170101

Report To : Brett Bowyer

Reported : 03/25/2014

Volatile Organic Compounds by EPA 5035/EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B4C0368 - MSVOAS (continued)

LCS (B4C0368-BS1)

Prepared: 3/19/2014 Analyzed: 3/19/2014

1,1-Dichloroethene	56.8500	5.0	50.0000		114	62 - 129			
Benzene	54.6000	5.0	50.0000		109	82 - 121			
Chlorobenzene	52.4900	5.0	50.0000		105	83 - 132			
MTBE	55.8600	5.0	50.0000		112	55 - 138			
Toluene	55.0400	5.0	50.0000		110	80 - 129			
Trichloroethene	52.5300	5.0	50.0000		105	75 - 133			
Surrogate: 1,2-Dichloroethane-d4	60.08		50.0000		120	63 - 167			
Surrogate: 4-Bromofluorobenzene	50.45		50.0000		101	63 - 130			
Surrogate: Dibromofluoromethane	55.46		50.0000		111	75 - 146			
Surrogate: Toluene-d8	51.98		50.0000		104	78 - 125			

Matrix Spike (B4C0368-MS1)

Source: 1400815-02

Prepared: 3/19/2014 Analyzed: 3/19/2014

1,1-Dichloroethene	51.4500	5.0	50.0000	ND	103	48 - 127			
Benzene	49.8400	5.0	50.0000	ND	99.7	57 - 125			
Chlorobenzene	48.4100	5.0	50.0000	ND	96.8	42 - 141			
MTBE	48.5200	5.0	50.0000	ND	97.0	44 - 137			
Toluene	50.6900	5.0	50.0000	ND	101	40 - 143			
Trichloroethene	57.5500	5.0	50.0000	ND	115	47 - 148			
Surrogate: 1,2-Dichloroethane-d4	61.90		50.0000		124	63 - 167			
Surrogate: 4-Bromofluorobenzene	51.68		50.0000		103	63 - 130			
Surrogate: Dibromofluoromethane	52.75		50.0000		106	75 - 146			
Surrogate: Toluene-d8	51.52		50.0000		103	78 - 125			

Matrix Spike Dup (B4C0368-MSD1)

Source: 1400815-02

Prepared: 3/19/2014 Analyzed: 3/19/2014

1,1-Dichloroethene	50.7000	5.0	50.0000	ND	101	48 - 127	1.47	20	
Benzene	48.5700	5.0	50.0000	ND	97.1	57 - 125	2.58	20	
Chlorobenzene	49.0000	5.0	50.0000	ND	98.0	42 - 141	1.21	20	
MTBE	47.7500	5.0	50.0000	ND	95.5	44 - 137	1.60	20	
Toluene	50.6800	5.0	50.0000	ND	101	40 - 143	0.0197	20	
Trichloroethene	53.7700	5.0	50.0000	ND	108	47 - 148	6.79	20	
Surrogate: 1,2-Dichloroethane-d4	58.91		50.0000		118	63 - 167			
Surrogate: 4-Bromofluorobenzene	51.12		50.0000		102	63 - 130			
Surrogate: Dibromofluoromethane	52.96		50.0000		106	75 - 146			
Surrogate: Toluene-d8	52.17		50.0000		104	78 - 125			

Batch B4C0386 - MSVOAS

Blank (B4C0386-BLK1)

Prepared: 3/19/2014 Analyzed: 3/19/2014

1,1,1,2-Tetrachloroethane	ND	5.0			NR				
1,1,1-Trichloroethane	ND	5.0			NR				



Certificate of Analysis

Bowyer Environmental Consulting

17011 Beach Blvd., Suite 900

Huntington Beach, CA 92647

Project Number : Del Rey Cleaners, 170101

Report To : Brett Bowyer

Reported : 03/25/2014

Volatile Organic Compounds by EPA 5035/EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B4C0386 - MSVOAS (continued)

Blank (B4C0386-BLK1) - Continued

Prepared: 3/19/2014 Analyzed: 3/19/2014

1,1,2,2-Tetrachloroethane	ND	5.0			NR
1,1,2-Trichloroethane	ND	5.0			NR
1,1-Dichloroethane	ND	5.0			NR
1,1-Dichloroethene	ND	5.0			NR
1,1-Dichloropropene	ND	5.0			NR
1,2,3-Trichloropropane	ND	5.0			NR
1,2,3-Trichlorobenzene	ND	5.0			NR
1,2,4-Trichlorobenzene	ND	5.0			NR
1,2,4-Trimethylbenzene	ND	5.0			NR
1,2-Dibromo-3-chloropropane	ND	10			NR
1,2-Dibromoethane	ND	5.0			NR
1,2-Dichlorobenzene	ND	5.0			NR
1,2-Dichloroethane	ND	5.0			NR
1,2-Dichloropropane	ND	5.0			NR
1,3,5-Trimethylbenzene	ND	5.0			NR
1,3-Dichlorobenzene	ND	5.0			NR
1,3-Dichloropropane	ND	5.0			NR
1,4-Dichlorobenzene	ND	5.0			NR
2,2-Dichloropropane	ND	5.0			NR
2-Chlorotoluene	ND	5.0			NR
4-Chlorotoluene	ND	5.0			NR
4-Isopropyltoluene	ND	5.0			NR
Benzene	ND	5.0			NR
Bromobenzene	ND	5.0			NR
Bromochloromethane	ND	5.0			NR
Bromodichloromethane	ND	5.0			NR
Bromoform	ND	5.0			NR
Bromomethane	ND	5.0			NR
Carbon disulfide	ND	5.0			NR
Carbon tetrachloride	ND	5.0			NR
Chlorobenzene	ND	5.0			NR
Chloroethane	ND	5.0			NR
Chloroform	ND	5.0			NR
Chloromethane	ND	5.0			NR
cis-1,2-Dichloroethene	ND	5.0			NR
cis-1,3-Dichloropropene	ND	5.0			NR
Di-isopropyl ether	ND	5.0			NR
Dibromochloromethane	ND	5.0			NR
Dibromomethane	ND	5.0			NR
Dichlorodifluoromethane	ND	5.0			NR



Certificate of Analysis

Bowyer Environmental Consulting
17011 Beach Blvd., Suite 900
Huntington Beach, CA 92647

Project Number : Del Rey Cleaners, 170101

Report To : Brett Bowyer

Reported : 03/25/2014

Volatile Organic Compounds by EPA 5035/EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B4C0386 - MSVOAS (continued)

Blank (B4C0386-BLK1) - Continued

Prepared: 3/19/2014 Analyzed: 3/19/2014

Ethyl Acetate	ND	50			NR				
Ethyl Ether	ND	50			NR				
Ethyl tert-butyl ether	ND	5.0			NR				
Ethylbenzene	ND	5.0			NR				
Freon-113	ND	5.0			NR				
Hexachlorobutadiene	ND	5.0			NR				
Isopropylbenzene	ND	5.0			NR				
m,p-Xylene	ND	10			NR				
Methylene chloride	ND	5.0			NR				
MTBE	ND	5.0			NR				
n-Butylbenzene	ND	5.0			NR				
n-Propylbenzene	ND	5.0			NR				
Naphthalene	ND	5.0			NR				
o-Xylene	ND	5.0			NR				
sec-Butylbenzene	ND	5.0			NR				
Styrene	ND	5.0			NR				
tert-Amyl methyl ether	ND	5.0			NR				
tert-Butanol	ND	100			NR				
tert-Butylbenzene	ND	5.0			NR				
Tetrachloroethene	ND	5.0			NR				
Toluene	ND	5.0			NR				
trans-1,2-Dichloroethene	ND	5.0			NR				
trans-1,3-Dichloropropene	ND	5.0			NR				
Trichloroethene	ND	5.0			NR				
Trichlorofluoromethane	ND	5.0			NR				
Vinyl acetate	ND	50			NR				
Vinyl chloride	ND	5.0			NR				
Surrogate: 1,2-Dichloroethane-d4	54.63		50.0000		109	63 - 167			
Surrogate: 4-Bromofluorobenzene	48.00		50.0000		96.0	63 - 130			
Surrogate: Dibromofluoromethane	49.31		50.0000		98.6	75 - 146			
Surrogate: Toluene-d8	51.25		50.0000		102	78 - 125			

LCS (B4C0386-BS1)

Prepared: 3/19/2014 Analyzed: 3/19/2014

1,1-Dichloroethene	49.4500	5.0	50.0000		98.9	62 - 129			
Benzene	53.0500	5.0	50.0000		106	82 - 121			
Chlorobenzene	51.6800	5.0	50.0000		103	83 - 132			
MTBE	52.1900	5.0	50.0000		104	55 - 138			
Toluene	53.5800	5.0	50.0000		107	80 - 129			
Trichloroethene	51.1600	5.0	50.0000		102	75 - 133			
Surrogate: 1,2-Dichloroethane-d4	55.92		50.0000		112	63 - 167			



Certificate of Analysis

Bowyer Environmental Consulting
17011 Beach Blvd., Suite 900
Huntington Beach, CA 92647

Project Number : Del Rey Cleaners, 170101

Report To : Brett Bowyer

Reported : 03/25/2014

Volatile Organic Compounds by EPA 5035/EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B4C0386 - MSVOAS (continued)

LCS (B4C0386-BS1) - Continued

Prepared: 3/19/2014 Analyzed: 3/19/2014

Surrogate: 4-Bromofluorobenzene	52.59		50.0000		105	63 - 130			
Surrogate: Dibromofluoromethane	53.57		50.0000		107	75 - 146			
Surrogate: Toluene-d8	53.78		50.0000		108	78 - 125			

Duplicate (B4C0386-DUP1)

Source: 1400836-01

Prepared: 3/19/2014 Analyzed: 3/19/2014

1,1-Dichloroethene	ND	12		ND	NR			20	
Benzene	ND	12		2.85000	NR			20	
Chlorobenzene	ND	12		ND	NR			20	
MTBE	ND	12		4.60000	NR			20	
Toluene	ND	12		3.65000	NR			20	
Trichloroethene	ND	12		ND	NR			20	

Surrogate: 1,2-Dichloroethane-d4	52.37		50.0000		105	63 - 167			
Surrogate: 4-Bromofluorobenzene	48.70		50.0000		97.4	63 - 130			
Surrogate: Dibromofluoromethane	50.14		50.0000		100	75 - 146			
Surrogate: Toluene-d8	52.93		50.0000		106	78 - 125			

Matrix Spike (B4C0386-MS1)

Source: 1400836-01

Prepared: 3/19/2014 Analyzed: 3/19/2014

1,1-Dichloroethene	91.5000	10	100.000	ND	91.5	48 - 127			
Benzene	89.9400	10	100.000	2.85000	87.1	57 - 125			
Chlorobenzene	77.5800	10	100.000	ND	77.6	42 - 141			
MTBE	97.6800	10	100.000	4.60000	93.1	44 - 137			
Toluene	85.7400	10	100.000	3.65000	82.1	40 - 143			
Trichloroethene	84.5800	10	100.000	ND	84.6	47 - 148			

Surrogate: 1,2-Dichloroethane-d4	54.75		50.0000		110	63 - 167			
Surrogate: 4-Bromofluorobenzene	49.72		50.0000		99.4	63 - 130			
Surrogate: Dibromofluoromethane	52.07		50.0000		104	75 - 146			
Surrogate: Toluene-d8	52.55		50.0000		105	78 - 125			

Matrix Spike Dup (B4C0386-MSD1)

Source: 1400836-01

Prepared: 3/19/2014 Analyzed: 3/19/2014

1,1-Dichloroethene	84.9400	10	100.000	ND	84.9	48 - 127	7.44	20	
Benzene	80.4800	10	100.000	2.85000	77.6	57 - 125	11.1	20	
Chlorobenzene	64.3200	10	100.000	ND	64.3	42 - 141	18.7	20	
MTBE	98.5200	10	100.000	4.60000	93.9	44 - 137	0.856	20	
Toluene	76.6200	10	100.000	3.65000	73.0	40 - 143	11.2	20	
Trichloroethene	73.4600	10	100.000	ND	73.5	47 - 148	14.1	20	

Surrogate: 1,2-Dichloroethane-d4	55.84		50.0000		112	63 - 167			
Surrogate: 4-Bromofluorobenzene	49.85		50.0000		99.7	63 - 130			
Surrogate: Dibromofluoromethane	52.02		50.0000		104	75 - 146			
Surrogate: Toluene-d8	52.18		50.0000		104	78 - 125			



Certificate of Analysis

Bowyer Environmental Consulting
17011 Beach Blvd., Suite 900
Huntington Beach, CA 92647

Project Number : Del Rey Cleaners, 170101
Report To : Brett Bowyer
Reported : 03/25/2014

Notes and Definitions

ND	Analyte is not detected at or above the Practical Quantitation Limit (PQL). When client requests quantitation against MDL, analyte is not detected at or above the Method Detection Limit (MDL)
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
NR	Not Reported
RPD	Relative Percent Difference
CA2	CA-ELAP (CDPH)
OR1	OR-NELAP (OSPHL)
TX1	TX-NELAP (TCEQ)

Notes:

- (1) The reported MDL and PQL are based on prep ratio variation and analytical dilution.
- (2) The suffix [2C] of specific analytes signifies that the reported result is taken from the instrument's second column.
- (3) Results are wet unless otherwise specified.

CHAIN OF CUSTODY RECORD

Page 1 of 2

For Laboratory Use Only		ATLCCOC Ver: 20130715							
Method of Transport		Sample Conditions Upon Receipt							
		Condition		Y	N	Condition		Y	N
☐ Client	☐ ATL	1. CHILLED	☐	☐	5. # OF SAMPLES MATCH COC	☐	☐		
☐ FedEx	☐ OnTrac	2. HEADSPACE (VOA)	☐	☐	6. PRESERVED	☐	☐		
☐ GSO		3. CONTAINER INTACT	☐	☐	7. COOLER TEMP. deg C:				
☐ Other: _____		4. SEALED	☐	☐					

Instruction: Complete all shaded areas.

CUSTOMER	
Company: BEC	
Address: 7701 Beach Blvd, Suite 900	
City: Huntington Beach	
State: CA	
Zip: 92647	
Tel: 877-732-4620	
Fax:	
SEND REPORT TO: ☐ same as SEND REPORT TO	
SEND INVOICE TO:	
Attn: Brett/Willy	Attn: Brett /Lina
Company: BEC	Company: BEC
Address:	Address:
City:	City:
State:	State:
Zip:	Zip:

Project Name:		Quote No:		Special Instructions/Comments:		Encircle or Write Requested Analysis										Encircle Sample Matrix	TAT	#	Container	Preservative: 1=HCl; 2=HNO3; 3=H2SO4; 4 = ac; 5=Zn ((Ag); 6=NaOH; 7=MA25203	REMARKS			
Project No.:		PO #:				Sample Description		Date		Time														
ITEM	Lab No.	Sample ID / Location																						
1	140813 - 1	V-1-5-5.5		3/17/14		0825																		
2	- 2	V-2-4.5-5				0800																		
3	- 3	V-3-5-5.5				0840																		
4	- 4	V-5-4.5-5				1005																		
5	- 5	V-6-4.5-5				1101																		
6	- 6	V-7-1.5-2				0900																		
7	- 7	V-8-4.5-5				1136																		
8	- 8	V-9-5-5.5				0847																		
9	- 9	V-10-5-5.5				1022																		
10	- 10	V-11-4.5-5				1116																		

- samples will be disposed of after 14 calendar days after receipt of samples.
- Electronic records maintained for 1 yr; (5) years from report date.
- Hard copy reports will be disposed after 45 calendar days from report date.
- Storage and Report Fees:
 - Liquid & solid samples: Complimentary storage for forty-five (45) calendar days from receipt of samples; \$2/sample/month if extended storage is requested.
 - Air samples: Complimentary storage for ten (10) calendar days from receipt of samples; \$20/ sample/week if extended storage is requested.
 - Hard copy and regenerated reports: \$17.50 per hard copy report requested; \$50.00 per regenerated report; \$40.00 per report; \$35.00 per reprocessed EDD.
 - 1000 TCC/TCU tests will add 2 days to analysis; \$75 for extraction on procedure.
 - 1000 TCC/TCU tests will add 2 days to analysis; \$75 for extraction on procedure.
 - 1000 TCC/TCU tests will add 2 days to analysis; \$75 for extraction on procedure.

As the authorized agent of the company above, I hereby
 purchase laboratory services from ATL as shown above and
 hereby guarantee payment as quoted.

Willie Parais
Signature

Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
<i>Relinquished by: Wily Parish</i>	3/17/14	1522	<i>Received by: [Signature]</i>	3/17/14	1532
Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:

CHAIN OF CUSTODY RECORD

Page 2 of 2

Instruction: Complete all shaded areas.

Method of Transport		Sample Conditions Upon Receipt	
☒ Client	☐ ATL	Condition	Y N
☐ FedEx	☐ OnTrac	1. CHILLED	☐ Y ☐ N
☐ GSO	☐ Other:	2. HEADSPACE (VOA)	☐ 5. # OF SAMPLES MATCH COC
☐ Other:		3. CONTAINER INTACT	☐ 6. PRESERVED
		4. SEALED	☐ 7. COOLER TEMP. DEG C

Company: **BEC** Address: **17011 Beach Blvd, Suite 900** Tel: **877-272-4620**
City: **Huntington Beach** State: **CA** Zip: **92647** Fax: _____
SEND REPORT TO: _____ Email: _____
SEND INVOICE TO: _____

Attn: **Brett / Ling** Email: _____
Company: **BEC**
Address: _____
City: _____ State: _____ Zip: _____

Project Name: Del Rey Cleaner		Quote No:	Special Instructions/Comments:	
Project No.: 170101		PO #:		
Sampler: Willy Parrish				
ITEM	Lab No.	Sample ID / Location	Date	Time
1	1400813	V-17-4-4.5	3/17/14	1350
2	-12	V-18-4-4.5		1326
3	-13	V-19-4-4.5		1312
4	-14	V-20-4-4.5		1252
5				
6				
7				
8				
9				
10				

Encircle or Write Requested Analysis		Encircle Sample Matrix		Container		QA/QC
☒ 826 / 624 (Volatiles)	☐ 8015 (GRO)	☐ 8015 (DRO)	☐ 8270 (Semi-volatiles)	☐ 8082 (PCBs)	☐ 6010 / 7000 (Title 22 Metals)	☐ Routine
☐ TO-15	☐ SOLIDS / SEDIMENT / SLUDGE	☐ WATER - DRINKING / GROUND	☐ WATER - STORM / WASTE	☐ TAT	☐ AQUEOUS / LAYERED - OIL	☐ Caltrans
☐ 5=Zn (Ac2); 6=NaOH; 7=NA2S2O3	☐ Type: 1=Tube; 2=VOA; 3=Canister	☐ 5=Jar; 6=Tedlar; 7=Canister	☐ Material: 1=Glass; 2=Plastic; 3=Metal	☐ Preservation: 1=HCl; 2=HNO3; 3=H2SO4; 4=Ag	☐ Level IV	☐ Legal
☐ RWQCB						☐ Level IV

As the authorized agent of the company above, I hereby purchase laboratory services from ATL as shown above and hereby guarantee payment as quoted.

Signature: **Willy Parrish** Submitter Print Name: _____
Date: **3/17/14** Time: **1522**
Received by: Signature and Printed Name: _____ Date: _____ Time: _____
Relinquished by: Signature and Printed Name: _____ Date: _____ Time: _____
Relinquished by: Signature and Printed Name: _____ Date: _____ Time: _____



March 25, 2014

Brett Bowyer
Bowyer Environmental Consulting
17011 Beach Blvd., Suite 900
Huntington Beach, CA 92647
Tel: (877) 232-4620
Fax: (714) 840-4963

ELAP No.: 1838
CSDLAC No.: 10196
ORELAP No.: CA300003
TCEQ No.: T104704502

Re: ATL Work Order Number : 1400816
Client Reference : Del Rey Cleaners, 170101

Enclosed are the results for sample(s) received on March 18, 2014 by Advanced Technology Laboratories. The sample(s) are tested for the parameters as indicated on the enclosed chain of custody in accordance with applicable laboratory certifications. The laboratory results contained in this report specifically pertains to the sample(s) submitted.

Thank you for the opportunity to serve the needs of your company. If you have any questions, please feel free to contact me or your Project Manager.

Sincerely,

A handwritten signature in black ink, appearing to read "Eddie Rodriguez".

Eddie Rodriguez
Laboratory Director

The cover letter and the case narrative are an integral part of this analytical report and its absence renders the report invalid. Test results contained within this data package meet the requirements of applicable state-specific certification programs. The report cannot be reproduced without written permission from the client and Advanced Technology Laboratories.

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www.atlglobal.com



Certificate of Analysis

Bowyer Environmental Consulting
17011 Beach Blvd., Suite 900
Huntington Beach, CA 92647

Project Number : Del Rey Cleaners, 170101
Report To : Brett Bowyer
Reported : 03/25/2014

SUMMARY OF SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
V-4-5-5.5	1400816-01	Soil	3/18/14 7:45	3/18/14 10:36
V-12-5-5.5	1400816-02	Soil	3/18/14 8:46	3/18/14 10:36
V-13-5-5.5	1400816-03	Soil	3/18/14 8:00	3/18/14 10:36
V-14-5-5.5	1400816-04	Soil	3/18/14 9:04	3/18/14 10:36
V-15-5-5.5	1400816-05	Soil	3/18/14 9:27	3/18/14 10:36
V-16-5-5.5	1400816-06	Soil	3/18/14 8:20	3/18/14 10:36

CASE NARRATIVE

All volatile analyses were performed using 5035 preservation requirements. Any high level dilutions were performed on a preserved methanol sample unless otherwise noted.



Certificate of Analysis

Bowyer Environmental Consulting

17011 Beach Blvd., Suite 900

Huntington Beach, CA 92647

Project Number : Del Rey Cleaners, 170101

Report To : Brett Bowyer

Reported : 03/25/2014

Client Sample ID V-4-5-5.5

Lab ID: 1400816-01

Volatile Organic Compounds by EPA 5035/EPA 8260B

Analyst: BD

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	5.0	NA	1	B4C0386	03/19/2014	03/19/14 20:19	
1,1,1-Trichloroethane	ND	5.0	NA	1	B4C0386	03/19/2014	03/19/14 20:19	
1,1,2,2-Tetrachloroethane	ND	5.0	NA	1	B4C0386	03/19/2014	03/19/14 20:19	
1,1,2-Trichloroethane	ND	5.0	NA	1	B4C0386	03/19/2014	03/19/14 20:19	
1,1-Dichloroethane	ND	5.0	NA	1	B4C0386	03/19/2014	03/19/14 20:19	
1,1-Dichloroethene	ND	5.0	NA	1	B4C0386	03/19/2014	03/19/14 20:19	
1,1-Dichloropropene	ND	5.0	NA	1	B4C0386	03/19/2014	03/19/14 20:19	
1,2,3-Trichloropropane	ND	5.0	NA	1	B4C0386	03/19/2014	03/19/14 20:19	
1,2,3-Trichlorobenzene	ND	5.0	NA	1	B4C0386	03/19/2014	03/19/14 20:19	
1,2,4-Trichlorobenzene	ND	5.0	NA	1	B4C0386	03/19/2014	03/19/14 20:19	
1,2,4-Trimethylbenzene	ND	5.0	NA	1	B4C0386	03/19/2014	03/19/14 20:19	
1,2-Dibromo-3-chloropropane	ND	10	NA	1	B4C0386	03/19/2014	03/19/14 20:19	
1,2-Dibromoethane	ND	5.0	NA	1	B4C0386	03/19/2014	03/19/14 20:19	
1,2-Dichlorobenzene	ND	5.0	NA	1	B4C0386	03/19/2014	03/19/14 20:19	
1,2-Dichloroethane	ND	5.0	NA	1	B4C0386	03/19/2014	03/19/14 20:19	
1,2-Dichloropropane	ND	5.0	NA	1	B4C0386	03/19/2014	03/19/14 20:19	
1,3,5-Trimethylbenzene	ND	5.0	NA	1	B4C0386	03/19/2014	03/19/14 20:19	
1,3-Dichlorobenzene	ND	5.0	NA	1	B4C0386	03/19/2014	03/19/14 20:19	
1,3-Dichloropropane	ND	5.0	NA	1	B4C0386	03/19/2014	03/19/14 20:19	
1,4-Dichlorobenzene	ND	5.0	NA	1	B4C0386	03/19/2014	03/19/14 20:19	
2,2-Dichloropropane	ND	5.0	NA	1	B4C0386	03/19/2014	03/19/14 20:19	
2-Chlorotoluene	ND	5.0	NA	1	B4C0386	03/19/2014	03/19/14 20:19	
4-Chlorotoluene	ND	5.0	NA	1	B4C0386	03/19/2014	03/19/14 20:19	
4-Isopropyltoluene	ND	5.0	NA	1	B4C0386	03/19/2014	03/19/14 20:19	
Benzene	ND	5.0	NA	1	B4C0386	03/19/2014	03/19/14 20:19	
Bromobenzene	ND	5.0	NA	1	B4C0386	03/19/2014	03/19/14 20:19	
Bromochloromethane	ND	5.0	NA	1	B4C0386	03/19/2014	03/19/14 20:19	
Bromodichloromethane	ND	5.0	NA	1	B4C0386	03/19/2014	03/19/14 20:19	
Bromoform	ND	5.0	NA	1	B4C0386	03/19/2014	03/19/14 20:19	
Bromomethane	ND	5.0	NA	1	B4C0386	03/19/2014	03/19/14 20:19	
Carbon disulfide	ND	5.0	NA	1	B4C0386	03/19/2014	03/19/14 20:19	
Carbon tetrachloride	ND	5.0	NA	1	B4C0386	03/19/2014	03/19/14 20:19	
Chlorobenzene	ND	5.0	NA	1	B4C0386	03/19/2014	03/19/14 20:19	
Chloroethane	ND	5.0	NA	1	B4C0386	03/19/2014	03/19/14 20:19	
Chloroform	ND	5.0	NA	1	B4C0386	03/19/2014	03/19/14 20:19	
Chloromethane	ND	5.0	NA	1	B4C0386	03/19/2014	03/19/14 20:19	



Certificate of Analysis

Bowyer Environmental Consulting
17011 Beach Blvd., Suite 900
Huntington Beach, CA 92647

Project Number : Del Rey Cleaners, 170101

Report To : Brett Bowyer

Reported : 03/25/2014

Client Sample ID V-4-5-5.5

Lab ID: 1400816-01

Volatile Organic Compounds by EPA 5035/EPA 8260B

Analyst: BD

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
cis-1,2-Dichloroethene	ND	5.0	NA	1	B4C0386	03/19/2014	03/19/14 20:19	
cis-1,3-Dichloropropene	ND	5.0	NA	1	B4C0386	03/19/2014	03/19/14 20:19	
Di-isopropyl ether	ND	5.0	NA	1	B4C0386	03/19/2014	03/19/14 20:19	
Dibromochloromethane	ND	5.0	NA	1	B4C0386	03/19/2014	03/19/14 20:19	
Dibromomethane	ND	5.0	NA	1	B4C0386	03/19/2014	03/19/14 20:19	
Dichlorodifluoromethane	ND	5.0	NA	1	B4C0386	03/19/2014	03/19/14 20:19	
Ethyl Acetate	ND	50	NA	1	B4C0386	03/19/2014	03/19/14 20:19	
Ethyl Ether	ND	50	NA	1	B4C0386	03/19/2014	03/19/14 20:19	
Ethyl tert-butyl ether	ND	5.0	NA	1	B4C0386	03/19/2014	03/19/14 20:19	
Ethylbenzene	ND	5.0	NA	1	B4C0386	03/19/2014	03/19/14 20:19	
Freon-113	ND	5.0	NA	1	B4C0386	03/19/2014	03/19/14 20:19	
Hexachlorobutadiene	ND	5.0	NA	1	B4C0386	03/19/2014	03/19/14 20:19	
Isopropylbenzene	ND	5.0	NA	1	B4C0386	03/19/2014	03/19/14 20:19	
m,p-Xylene	ND	10	NA	1	B4C0386	03/19/2014	03/19/14 20:19	
Methylene chloride	ND	5.0	NA	1	B4C0386	03/19/2014	03/19/14 20:19	
MTBE	ND	5.0	NA	1	B4C0386	03/19/2014	03/19/14 20:19	
n-Butylbenzene	ND	5.0	NA	1	B4C0386	03/19/2014	03/19/14 20:19	
n-Propylbenzene	ND	5.0	NA	1	B4C0386	03/19/2014	03/19/14 20:19	
Naphthalene	ND	5.0	NA	1	B4C0386	03/19/2014	03/19/14 20:19	
o-Xylene	ND	5.0	NA	1	B4C0386	03/19/2014	03/19/14 20:19	
sec-Butylbenzene	ND	5.0	NA	1	B4C0386	03/19/2014	03/19/14 20:19	
Styrene	ND	5.0	NA	1	B4C0386	03/19/2014	03/19/14 20:19	
tert-Amyl methyl ether	ND	5.0	NA	1	B4C0386	03/19/2014	03/19/14 20:19	
tert-Butanol	ND	100	NA	1	B4C0386	03/19/2014	03/19/14 20:19	
tert-Butylbenzene	ND	5.0	NA	1	B4C0386	03/19/2014	03/19/14 20:19	
Tetrachloroethene	ND	5.0	NA	1	B4C0386	03/19/2014	03/19/14 20:19	
Toluene	ND	5.0	NA	1	B4C0386	03/19/2014	03/19/14 20:19	
trans-1,2-Dichloroethene	ND	5.0	NA	1	B4C0386	03/19/2014	03/19/14 20:19	
trans-1,3-Dichloropropene	ND	5.0	NA	1	B4C0386	03/19/2014	03/19/14 20:19	
Trichloroethene	ND	5.0	NA	1	B4C0386	03/19/2014	03/19/14 20:19	
Trichlorofluoromethane	ND	5.0	NA	1	B4C0386	03/19/2014	03/19/14 20:19	
Vinyl acetate	ND	50	NA	1	B4C0386	03/19/2014	03/19/14 20:19	
Vinyl chloride	ND	5.0	NA	1	B4C0386	03/19/2014	03/19/14 20:19	
Surrogate: 1,2-Dichloroethane-d4	116 %	63 - 167			B4C0386	03/19/2014	03/19/14 20:19	
Surrogate: 4-Bromofluorobenzene	99.5 %	63 - 130			B4C0386	03/19/2014	03/19/14 20:19	
Surrogate: Dibromofluoromethane	97.7 %	75 - 146			B4C0386	03/19/2014	03/19/14 20:19	



Certificate of Analysis

Bowyer Environmental Consulting
17011 Beach Blvd., Suite 900
Huntington Beach, CA 92647

Project Number : Del Rey Cleaners, 170101
Report To : Brett Bowyer
Reported : 03/25/2014

Client Sample ID V-4-5-5.5

Lab ID: 1400816-01

Volatile Organic Compounds by EPA 5035/EPA 8260B

Analyst: BD

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Surrogate: Toluene-d8	105 %		78 - 125		B4C0386	03/19/2014	03/19/14 20:19	



Certificate of Analysis

Bowyer Environmental Consulting

17011 Beach Blvd., Suite 900

Huntington Beach, CA 92647

Project Number : Del Rey Cleaners, 170101

Report To : Brett Bowyer

Reported : 03/25/2014

Client Sample ID V-12-5-5.5

Lab ID: 1400816-02

Volatile Organic Compounds by EPA 5035/EPA 8260B

Analyst: BD

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	4.9	NA	1	B4C0386	03/19/2014	03/19/14 20:38	
1,1,1-Trichloroethane	ND	4.9	NA	1	B4C0386	03/19/2014	03/19/14 20:38	
1,1,2,2-Tetrachloroethane	ND	4.9	NA	1	B4C0386	03/19/2014	03/19/14 20:38	
1,1,2-Trichloroethane	ND	4.9	NA	1	B4C0386	03/19/2014	03/19/14 20:38	
1,1-Dichloroethane	ND	4.9	NA	1	B4C0386	03/19/2014	03/19/14 20:38	
1,1-Dichloroethene	ND	4.9	NA	1	B4C0386	03/19/2014	03/19/14 20:38	
1,1-Dichloropropene	ND	4.9	NA	1	B4C0386	03/19/2014	03/19/14 20:38	
1,2,3-Trichloropropane	ND	4.9	NA	1	B4C0386	03/19/2014	03/19/14 20:38	
1,2,3-Trichlorobenzene	ND	4.9	NA	1	B4C0386	03/19/2014	03/19/14 20:38	
1,2,4-Trichlorobenzene	ND	4.9	NA	1	B4C0386	03/19/2014	03/19/14 20:38	
1,2,4-Trimethylbenzene	ND	4.9	NA	1	B4C0386	03/19/2014	03/19/14 20:38	
1,2-Dibromo-3-chloropropane	ND	9.8	NA	1	B4C0386	03/19/2014	03/19/14 20:38	
1,2-Dibromoethane	ND	4.9	NA	1	B4C0386	03/19/2014	03/19/14 20:38	
1,2-Dichlorobenzene	ND	4.9	NA	1	B4C0386	03/19/2014	03/19/14 20:38	
1,2-Dichloroethane	ND	4.9	NA	1	B4C0386	03/19/2014	03/19/14 20:38	
1,2-Dichloropropane	ND	4.9	NA	1	B4C0386	03/19/2014	03/19/14 20:38	
1,3,5-Trimethylbenzene	ND	4.9	NA	1	B4C0386	03/19/2014	03/19/14 20:38	
1,3-Dichlorobenzene	ND	4.9	NA	1	B4C0386	03/19/2014	03/19/14 20:38	
1,3-Dichloropropane	ND	4.9	NA	1	B4C0386	03/19/2014	03/19/14 20:38	
1,4-Dichlorobenzene	ND	4.9	NA	1	B4C0386	03/19/2014	03/19/14 20:38	
2,2-Dichloropropane	ND	4.9	NA	1	B4C0386	03/19/2014	03/19/14 20:38	
2-Chlorotoluene	ND	4.9	NA	1	B4C0386	03/19/2014	03/19/14 20:38	
4-Chlorotoluene	ND	4.9	NA	1	B4C0386	03/19/2014	03/19/14 20:38	
4-Isopropyltoluene	ND	4.9	NA	1	B4C0386	03/19/2014	03/19/14 20:38	
Benzene	ND	4.9	NA	1	B4C0386	03/19/2014	03/19/14 20:38	
Bromobenzene	ND	4.9	NA	1	B4C0386	03/19/2014	03/19/14 20:38	
Bromochloromethane	ND	4.9	NA	1	B4C0386	03/19/2014	03/19/14 20:38	
Bromodichloromethane	ND	4.9	NA	1	B4C0386	03/19/2014	03/19/14 20:38	
Bromoform	ND	4.9	NA	1	B4C0386	03/19/2014	03/19/14 20:38	
Bromomethane	ND	4.9	NA	1	B4C0386	03/19/2014	03/19/14 20:38	
Carbon disulfide	ND	4.9	NA	1	B4C0386	03/19/2014	03/19/14 20:38	
Carbon tetrachloride	ND	4.9	NA	1	B4C0386	03/19/2014	03/19/14 20:38	
Chlorobenzene	ND	4.9	NA	1	B4C0386	03/19/2014	03/19/14 20:38	
Chloroethane	ND	4.9	NA	1	B4C0386	03/19/2014	03/19/14 20:38	
Chloroform	ND	4.9	NA	1	B4C0386	03/19/2014	03/19/14 20:38	
Chloromethane	ND	4.9	NA	1	B4C0386	03/19/2014	03/19/14 20:38	



Certificate of Analysis

Bowyer Environmental Consulting
17011 Beach Blvd., Suite 900
Huntington Beach, CA 92647

Project Number : Del Rey Cleaners, 170101

Report To : Brett Bowyer

Reported : 03/25/2014

Client Sample ID V-12-5-5.5

Lab ID: 1400816-02

Volatile Organic Compounds by EPA 5035/EPA 8260B

Analyst: BD

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
cis-1,2-Dichloroethene	ND	4.9	NA	1	B4C0386	03/19/2014	03/19/14 20:38	
cis-1,3-Dichloropropene	ND	4.9	NA	1	B4C0386	03/19/2014	03/19/14 20:38	
Di-isopropyl ether	ND	4.9	NA	1	B4C0386	03/19/2014	03/19/14 20:38	
Dibromochloromethane	ND	4.9	NA	1	B4C0386	03/19/2014	03/19/14 20:38	
Dibromomethane	ND	4.9	NA	1	B4C0386	03/19/2014	03/19/14 20:38	
Dichlorodifluoromethane	ND	4.9	NA	1	B4C0386	03/19/2014	03/19/14 20:38	
Ethyl Acetate	ND	49	NA	1	B4C0386	03/19/2014	03/19/14 20:38	
Ethyl Ether	ND	49	NA	1	B4C0386	03/19/2014	03/19/14 20:38	
Ethyl tert-butyl ether	ND	4.9	NA	1	B4C0386	03/19/2014	03/19/14 20:38	
Ethylbenzene	ND	4.9	NA	1	B4C0386	03/19/2014	03/19/14 20:38	
Freon-113	ND	4.9	NA	1	B4C0386	03/19/2014	03/19/14 20:38	
Hexachlorobutadiene	ND	4.9	NA	1	B4C0386	03/19/2014	03/19/14 20:38	
Isopropylbenzene	ND	4.9	NA	1	B4C0386	03/19/2014	03/19/14 20:38	
m,p-Xylene	ND	9.8	NA	1	B4C0386	03/19/2014	03/19/14 20:38	
Methylene chloride	ND	4.9	NA	1	B4C0386	03/19/2014	03/19/14 20:38	
MTBE	ND	4.9	NA	1	B4C0386	03/19/2014	03/19/14 20:38	
n-Butylbenzene	ND	4.9	NA	1	B4C0386	03/19/2014	03/19/14 20:38	
n-Propylbenzene	ND	4.9	NA	1	B4C0386	03/19/2014	03/19/14 20:38	
Naphthalene	ND	4.9	NA	1	B4C0386	03/19/2014	03/19/14 20:38	
o-Xylene	ND	4.9	NA	1	B4C0386	03/19/2014	03/19/14 20:38	
sec-Butylbenzene	ND	4.9	NA	1	B4C0386	03/19/2014	03/19/14 20:38	
Styrene	ND	4.9	NA	1	B4C0386	03/19/2014	03/19/14 20:38	
tert-Amyl methyl ether	ND	4.9	NA	1	B4C0386	03/19/2014	03/19/14 20:38	
tert-Butanol	ND	98	NA	1	B4C0386	03/19/2014	03/19/14 20:38	
tert-Butylbenzene	ND	4.9	NA	1	B4C0386	03/19/2014	03/19/14 20:38	
Tetrachloroethene	ND	4.9	NA	1	B4C0386	03/19/2014	03/19/14 20:38	
Toluene	ND	4.9	NA	1	B4C0386	03/19/2014	03/19/14 20:38	
trans-1,2-Dichloroethene	ND	4.9	NA	1	B4C0386	03/19/2014	03/19/14 20:38	
trans-1,3-Dichloropropene	ND	4.9	NA	1	B4C0386	03/19/2014	03/19/14 20:38	
Trichloroethene	ND	4.9	NA	1	B4C0386	03/19/2014	03/19/14 20:38	
Trichlorofluoromethane	ND	4.9	NA	1	B4C0386	03/19/2014	03/19/14 20:38	
Vinyl acetate	ND	49	NA	1	B4C0386	03/19/2014	03/19/14 20:38	
Vinyl chloride	ND	4.9	NA	1	B4C0386	03/19/2014	03/19/14 20:38	
Surrogate: 1,2-Dichloroethane-d4	116 %	63 - 167			B4C0386	03/19/2014	03/19/14 20:38	
Surrogate: 4-Bromofluorobenzene	100 %	63 - 130			B4C0386	03/19/2014	03/19/14 20:38	
Surrogate: Dibromofluoromethane	105 %	75 - 146			B4C0386	03/19/2014	03/19/14 20:38	



Certificate of Analysis

Bowyer Environmental Consulting
17011 Beach Blvd., Suite 900
Huntington Beach, CA 92647

Project Number : Del Rey Cleaners, 170101
Report To : Brett Bowyer
Reported : 03/25/2014

Client Sample ID V-12-5-5.5

Lab ID: 1400816-02

Volatile Organic Compounds by EPA 5035/EPA 8260B

Analyst: BD

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Surrogate: Toluene-d8	106 %		78 - 125		B4C0386	03/19/2014	03/19/14 20:38	



Certificate of Analysis

Bowyer Environmental Consulting

17011 Beach Blvd., Suite 900

Huntington Beach, CA 92647

Project Number : Del Rey Cleaners, 170101

Report To : Brett Bowyer

Reported : 03/25/2014

Client Sample ID V-13-5-5.5

Lab ID: 1400816-03

Volatile Organic Compounds by EPA 5035/EPA 8260B

Analyst: BD

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	4.9	NA	1	B4C0386	03/19/2014	03/19/14 20:56	
1,1,1-Trichloroethane	ND	4.9	NA	1	B4C0386	03/19/2014	03/19/14 20:56	
1,1,2,2-Tetrachloroethane	ND	4.9	NA	1	B4C0386	03/19/2014	03/19/14 20:56	
1,1,2-Trichloroethane	ND	4.9	NA	1	B4C0386	03/19/2014	03/19/14 20:56	
1,1-Dichloroethane	ND	4.9	NA	1	B4C0386	03/19/2014	03/19/14 20:56	
1,1-Dichloroethene	ND	4.9	NA	1	B4C0386	03/19/2014	03/19/14 20:56	
1,1-Dichloropropene	ND	4.9	NA	1	B4C0386	03/19/2014	03/19/14 20:56	
1,2,3-Trichloropropane	ND	4.9	NA	1	B4C0386	03/19/2014	03/19/14 20:56	
1,2,3-Trichlorobenzene	ND	4.9	NA	1	B4C0386	03/19/2014	03/19/14 20:56	
1,2,4-Trichlorobenzene	ND	4.9	NA	1	B4C0386	03/19/2014	03/19/14 20:56	
1,2,4-Trimethylbenzene	ND	4.9	NA	1	B4C0386	03/19/2014	03/19/14 20:56	
1,2-Dibromo-3-chloropropane	ND	9.7	NA	1	B4C0386	03/19/2014	03/19/14 20:56	
1,2-Dibromoethane	ND	4.9	NA	1	B4C0386	03/19/2014	03/19/14 20:56	
1,2-Dichlorobenzene	ND	4.9	NA	1	B4C0386	03/19/2014	03/19/14 20:56	
1,2-Dichloroethane	ND	4.9	NA	1	B4C0386	03/19/2014	03/19/14 20:56	
1,2-Dichloropropane	ND	4.9	NA	1	B4C0386	03/19/2014	03/19/14 20:56	
1,3,5-Trimethylbenzene	ND	4.9	NA	1	B4C0386	03/19/2014	03/19/14 20:56	
1,3-Dichlorobenzene	ND	4.9	NA	1	B4C0386	03/19/2014	03/19/14 20:56	
1,3-Dichloropropane	ND	4.9	NA	1	B4C0386	03/19/2014	03/19/14 20:56	
1,4-Dichlorobenzene	ND	4.9	NA	1	B4C0386	03/19/2014	03/19/14 20:56	
2,2-Dichloropropane	ND	4.9	NA	1	B4C0386	03/19/2014	03/19/14 20:56	
2-Chlorotoluene	ND	4.9	NA	1	B4C0386	03/19/2014	03/19/14 20:56	
4-Chlorotoluene	ND	4.9	NA	1	B4C0386	03/19/2014	03/19/14 20:56	
4-Isopropyltoluene	ND	4.9	NA	1	B4C0386	03/19/2014	03/19/14 20:56	
Benzene	ND	4.9	NA	1	B4C0386	03/19/2014	03/19/14 20:56	
Bromobenzene	ND	4.9	NA	1	B4C0386	03/19/2014	03/19/14 20:56	
Bromochloromethane	ND	4.9	NA	1	B4C0386	03/19/2014	03/19/14 20:56	
Bromodichloromethane	ND	4.9	NA	1	B4C0386	03/19/2014	03/19/14 20:56	
Bromoform	ND	4.9	NA	1	B4C0386	03/19/2014	03/19/14 20:56	
Bromomethane	ND	4.9	NA	1	B4C0386	03/19/2014	03/19/14 20:56	
Carbon disulfide	ND	4.9	NA	1	B4C0386	03/19/2014	03/19/14 20:56	
Carbon tetrachloride	ND	4.9	NA	1	B4C0386	03/19/2014	03/19/14 20:56	
Chlorobenzene	ND	4.9	NA	1	B4C0386	03/19/2014	03/19/14 20:56	
Chloroethane	ND	4.9	NA	1	B4C0386	03/19/2014	03/19/14 20:56	
Chloroform	ND	4.9	NA	1	B4C0386	03/19/2014	03/19/14 20:56	
Chloromethane	ND	4.9	NA	1	B4C0386	03/19/2014	03/19/14 20:56	



Certificate of Analysis

Bowyer Environmental Consulting
17011 Beach Blvd., Suite 900
Huntington Beach, CA 92647

Project Number : Del Rey Cleaners, 170101

Report To : Brett Bowyer

Reported : 03/25/2014

Client Sample ID V-13-5-5.5

Lab ID: 1400816-03

Volatile Organic Compounds by EPA 5035/EPA 8260B

Analyst: BD

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
cis-1,2-Dichloroethene	ND	4.9	NA	1	B4C0386	03/19/2014	03/19/14 20:56	
cis-1,3-Dichloropropene	ND	4.9	NA	1	B4C0386	03/19/2014	03/19/14 20:56	
Di-isopropyl ether	ND	4.9	NA	1	B4C0386	03/19/2014	03/19/14 20:56	
Dibromochloromethane	ND	4.9	NA	1	B4C0386	03/19/2014	03/19/14 20:56	
Dibromomethane	ND	4.9	NA	1	B4C0386	03/19/2014	03/19/14 20:56	
Dichlorodifluoromethane	ND	4.9	NA	1	B4C0386	03/19/2014	03/19/14 20:56	
Ethyl Acetate	ND	49	NA	1	B4C0386	03/19/2014	03/19/14 20:56	
Ethyl Ether	ND	49	NA	1	B4C0386	03/19/2014	03/19/14 20:56	
Ethyl tert-butyl ether	ND	4.9	NA	1	B4C0386	03/19/2014	03/19/14 20:56	
Ethylbenzene	ND	4.9	NA	1	B4C0386	03/19/2014	03/19/14 20:56	
Freon-113	ND	4.9	NA	1	B4C0386	03/19/2014	03/19/14 20:56	
Hexachlorobutadiene	ND	4.9	NA	1	B4C0386	03/19/2014	03/19/14 20:56	
Isopropylbenzene	ND	4.9	NA	1	B4C0386	03/19/2014	03/19/14 20:56	
m,p-Xylene	ND	9.7	NA	1	B4C0386	03/19/2014	03/19/14 20:56	
Methylene chloride	ND	4.9	NA	1	B4C0386	03/19/2014	03/19/14 20:56	
MTBE	ND	4.9	NA	1	B4C0386	03/19/2014	03/19/14 20:56	
n-Butylbenzene	ND	4.9	NA	1	B4C0386	03/19/2014	03/19/14 20:56	
n-Propylbenzene	ND	4.9	NA	1	B4C0386	03/19/2014	03/19/14 20:56	
Naphthalene	ND	4.9	NA	1	B4C0386	03/19/2014	03/19/14 20:56	
o-Xylene	ND	4.9	NA	1	B4C0386	03/19/2014	03/19/14 20:56	
sec-Butylbenzene	ND	4.9	NA	1	B4C0386	03/19/2014	03/19/14 20:56	
Styrene	ND	4.9	NA	1	B4C0386	03/19/2014	03/19/14 20:56	
tert-Amyl methyl ether	ND	4.9	NA	1	B4C0386	03/19/2014	03/19/14 20:56	
tert-Butanol	ND	97	NA	1	B4C0386	03/19/2014	03/19/14 20:56	
tert-Butylbenzene	ND	4.9	NA	1	B4C0386	03/19/2014	03/19/14 20:56	
Tetrachloroethene	ND	4.9	NA	1	B4C0386	03/19/2014	03/19/14 20:56	
Toluene	ND	4.9	NA	1	B4C0386	03/19/2014	03/19/14 20:56	
trans-1,2-Dichloroethene	ND	4.9	NA	1	B4C0386	03/19/2014	03/19/14 20:56	
trans-1,3-Dichloropropene	ND	4.9	NA	1	B4C0386	03/19/2014	03/19/14 20:56	
Trichloroethene	ND	4.9	NA	1	B4C0386	03/19/2014	03/19/14 20:56	
Trichlorofluoromethane	ND	4.9	NA	1	B4C0386	03/19/2014	03/19/14 20:56	
Vinyl acetate	ND	49	NA	1	B4C0386	03/19/2014	03/19/14 20:56	
Vinyl chloride	ND	4.9	NA	1	B4C0386	03/19/2014	03/19/14 20:56	
Surrogate: 1,2-Dichloroethane-d4	121 %	63 - 167			B4C0386	03/19/2014	03/19/14 20:56	
Surrogate: 4-Bromofluorobenzene	104 %	63 - 130			B4C0386	03/19/2014	03/19/14 20:56	
Surrogate: Dibromofluoromethane	101 %	75 - 146			B4C0386	03/19/2014	03/19/14 20:56	



Certificate of Analysis

Bowyer Environmental Consulting
17011 Beach Blvd., Suite 900
Huntington Beach, CA 92647

Project Number : Del Rey Cleaners, 170101
Report To : Brett Bowyer
Reported : 03/25/2014

Client Sample ID V-13-5-5.5

Lab ID: 1400816-03

Volatile Organic Compounds by EPA 5035/EPA 8260B

Analyst: BD

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Surrogate: Toluene-d8	106 %		78 - 125		B4C0386	03/19/2014	03/19/14 20:56	



Certificate of Analysis

Bowyer Environmental Consulting

17011 Beach Blvd., Suite 900

Huntington Beach, CA 92647

Project Number : Del Rey Cleaners, 170101

Report To : Brett Bowyer

Reported : 03/25/2014

Client Sample ID V-14-5-5.5

Lab ID: 1400816-04

Volatile Organic Compounds by EPA 5035/EPA 8260B

Analyst: BD

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	4.7	NA	1	B4C0386	03/19/2014	03/19/14 21:15	
1,1,1-Trichloroethane	ND	4.7	NA	1	B4C0386	03/19/2014	03/19/14 21:15	
1,1,2,2-Tetrachloroethane	ND	4.7	NA	1	B4C0386	03/19/2014	03/19/14 21:15	
1,1,2-Trichloroethane	ND	4.7	NA	1	B4C0386	03/19/2014	03/19/14 21:15	
1,1-Dichloroethane	ND	4.7	NA	1	B4C0386	03/19/2014	03/19/14 21:15	
1,1-Dichloroethene	ND	4.7	NA	1	B4C0386	03/19/2014	03/19/14 21:15	
1,1-Dichloropropene	ND	4.7	NA	1	B4C0386	03/19/2014	03/19/14 21:15	
1,2,3-Trichloropropane	ND	4.7	NA	1	B4C0386	03/19/2014	03/19/14 21:15	
1,2,3-Trichlorobenzene	ND	4.7	NA	1	B4C0386	03/19/2014	03/19/14 21:15	
1,2,4-Trichlorobenzene	ND	4.7	NA	1	B4C0386	03/19/2014	03/19/14 21:15	
1,2,4-Trimethylbenzene	ND	4.7	NA	1	B4C0386	03/19/2014	03/19/14 21:15	
1,2-Dibromo-3-chloropropane	ND	9.4	NA	1	B4C0386	03/19/2014	03/19/14 21:15	
1,2-Dibromoethane	ND	4.7	NA	1	B4C0386	03/19/2014	03/19/14 21:15	
1,2-Dichlorobenzene	ND	4.7	NA	1	B4C0386	03/19/2014	03/19/14 21:15	
1,2-Dichloroethane	ND	4.7	NA	1	B4C0386	03/19/2014	03/19/14 21:15	
1,2-Dichloropropane	ND	4.7	NA	1	B4C0386	03/19/2014	03/19/14 21:15	
1,3,5-Trimethylbenzene	ND	4.7	NA	1	B4C0386	03/19/2014	03/19/14 21:15	
1,3-Dichlorobenzene	ND	4.7	NA	1	B4C0386	03/19/2014	03/19/14 21:15	
1,3-Dichloropropane	ND	4.7	NA	1	B4C0386	03/19/2014	03/19/14 21:15	
1,4-Dichlorobenzene	ND	4.7	NA	1	B4C0386	03/19/2014	03/19/14 21:15	
2,2-Dichloropropane	ND	4.7	NA	1	B4C0386	03/19/2014	03/19/14 21:15	
2-Chlorotoluene	ND	4.7	NA	1	B4C0386	03/19/2014	03/19/14 21:15	
4-Chlorotoluene	ND	4.7	NA	1	B4C0386	03/19/2014	03/19/14 21:15	
4-Isopropyltoluene	ND	4.7	NA	1	B4C0386	03/19/2014	03/19/14 21:15	
Benzene	ND	4.7	NA	1	B4C0386	03/19/2014	03/19/14 21:15	
Bromobenzene	ND	4.7	NA	1	B4C0386	03/19/2014	03/19/14 21:15	
Bromochloromethane	ND	4.7	NA	1	B4C0386	03/19/2014	03/19/14 21:15	
Bromodichloromethane	ND	4.7	NA	1	B4C0386	03/19/2014	03/19/14 21:15	
Bromoform	ND	4.7	NA	1	B4C0386	03/19/2014	03/19/14 21:15	
Bromomethane	ND	4.7	NA	1	B4C0386	03/19/2014	03/19/14 21:15	
Carbon disulfide	ND	4.7	NA	1	B4C0386	03/19/2014	03/19/14 21:15	
Carbon tetrachloride	ND	4.7	NA	1	B4C0386	03/19/2014	03/19/14 21:15	
Chlorobenzene	ND	4.7	NA	1	B4C0386	03/19/2014	03/19/14 21:15	
Chloroethane	ND	4.7	NA	1	B4C0386	03/19/2014	03/19/14 21:15	
Chloroform	ND	4.7	NA	1	B4C0386	03/19/2014	03/19/14 21:15	
Chloromethane	ND	4.7	NA	1	B4C0386	03/19/2014	03/19/14 21:15	



Certificate of Analysis

Bowyer Environmental Consulting
17011 Beach Blvd., Suite 900
Huntington Beach, CA 92647

Project Number : Del Rey Cleaners, 170101

Report To : Brett Bowyer

Reported : 03/25/2014

Client Sample ID V-14-5-5.5

Lab ID: 1400816-04

Volatile Organic Compounds by EPA 5035/EPA 8260B

Analyst: BD

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
cis-1,2-Dichloroethene	ND	4.7	NA	1	B4C0386	03/19/2014	03/19/14 21:15	
cis-1,3-Dichloropropene	ND	4.7	NA	1	B4C0386	03/19/2014	03/19/14 21:15	
Di-isopropyl ether	ND	4.7	NA	1	B4C0386	03/19/2014	03/19/14 21:15	
Dibromochloromethane	ND	4.7	NA	1	B4C0386	03/19/2014	03/19/14 21:15	
Dibromomethane	ND	4.7	NA	1	B4C0386	03/19/2014	03/19/14 21:15	
Dichlorodifluoromethane	ND	4.7	NA	1	B4C0386	03/19/2014	03/19/14 21:15	
Ethyl Acetate	ND	47	NA	1	B4C0386	03/19/2014	03/19/14 21:15	
Ethyl Ether	ND	47	NA	1	B4C0386	03/19/2014	03/19/14 21:15	
Ethyl tert-butyl ether	ND	4.7	NA	1	B4C0386	03/19/2014	03/19/14 21:15	
Ethylbenzene	ND	4.7	NA	1	B4C0386	03/19/2014	03/19/14 21:15	
Freon-113	ND	4.7	NA	1	B4C0386	03/19/2014	03/19/14 21:15	
Hexachlorobutadiene	ND	4.7	NA	1	B4C0386	03/19/2014	03/19/14 21:15	
Isopropylbenzene	ND	4.7	NA	1	B4C0386	03/19/2014	03/19/14 21:15	
m,p-Xylene	ND	9.4	NA	1	B4C0386	03/19/2014	03/19/14 21:15	
Methylene chloride	ND	4.7	NA	1	B4C0386	03/19/2014	03/19/14 21:15	
MTBE	ND	4.7	NA	1	B4C0386	03/19/2014	03/19/14 21:15	
n-Butylbenzene	ND	4.7	NA	1	B4C0386	03/19/2014	03/19/14 21:15	
n-Propylbenzene	ND	4.7	NA	1	B4C0386	03/19/2014	03/19/14 21:15	
Naphthalene	ND	4.7	NA	1	B4C0386	03/19/2014	03/19/14 21:15	
o-Xylene	ND	4.7	NA	1	B4C0386	03/19/2014	03/19/14 21:15	
sec-Butylbenzene	ND	4.7	NA	1	B4C0386	03/19/2014	03/19/14 21:15	
Styrene	ND	4.7	NA	1	B4C0386	03/19/2014	03/19/14 21:15	
tert-Amyl methyl ether	ND	4.7	NA	1	B4C0386	03/19/2014	03/19/14 21:15	
tert-Butanol	ND	94	NA	1	B4C0386	03/19/2014	03/19/14 21:15	
tert-Butylbenzene	ND	4.7	NA	1	B4C0386	03/19/2014	03/19/14 21:15	
Tetrachloroethene	15	4.7	NA	1	B4C0386	03/19/2014	03/19/14 21:15	
Toluene	ND	4.7	NA	1	B4C0386	03/19/2014	03/19/14 21:15	
trans-1,2-Dichloroethene	ND	4.7	NA	1	B4C0386	03/19/2014	03/19/14 21:15	
trans-1,3-Dichloropropene	ND	4.7	NA	1	B4C0386	03/19/2014	03/19/14 21:15	
Trichloroethene	ND	4.7	NA	1	B4C0386	03/19/2014	03/19/14 21:15	
Trichlorofluoromethane	ND	4.7	NA	1	B4C0386	03/19/2014	03/19/14 21:15	
Vinyl acetate	ND	47	NA	1	B4C0386	03/19/2014	03/19/14 21:15	
Vinyl chloride	ND	4.7	NA	1	B4C0386	03/19/2014	03/19/14 21:15	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>116 %</i>	<i>63 - 167</i>			B4C0386	03/19/2014	<i>03/19/14 21:15</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>103 %</i>	<i>63 - 130</i>			B4C0386	03/19/2014	<i>03/19/14 21:15</i>	
<i>Surrogate: Dibromofluoromethane</i>	<i>104 %</i>	<i>75 - 146</i>			B4C0386	03/19/2014	<i>03/19/14 21:15</i>	



Certificate of Analysis

Bowyer Environmental Consulting
17011 Beach Blvd., Suite 900
Huntington Beach, CA 92647

Project Number : Del Rey Cleaners, 170101
Report To : Brett Bowyer
Reported : 03/25/2014

Client Sample ID V-14-5-5.5

Lab ID: 1400816-04

Volatile Organic Compounds by EPA 5035/EPA 8260B

Analyst: BD

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Surrogate: Toluene-d8	103 %		78 - 125		B4C0386	03/19/2014	03/19/14 21:15	



Certificate of Analysis

Bowyer Environmental Consulting

17011 Beach Blvd., Suite 900

Huntington Beach, CA 92647

Project Number : Del Rey Cleaners, 170101

Report To : Brett Bowyer

Reported : 03/25/2014

Client Sample ID V-15-5-5.5

Lab ID: 1400816-05

Volatile Organic Compounds by EPA 5035/EPA 8260B

Analyst: BD

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	4.7	NA	1	B4C0386	03/19/2014	03/19/14 21:34	
1,1,1-Trichloroethane	ND	4.7	NA	1	B4C0386	03/19/2014	03/19/14 21:34	
1,1,2,2-Tetrachloroethane	ND	4.7	NA	1	B4C0386	03/19/2014	03/19/14 21:34	
1,1,2-Trichloroethane	ND	4.7	NA	1	B4C0386	03/19/2014	03/19/14 21:34	
1,1-Dichloroethane	ND	4.7	NA	1	B4C0386	03/19/2014	03/19/14 21:34	
1,1-Dichloroethene	ND	4.7	NA	1	B4C0386	03/19/2014	03/19/14 21:34	
1,1-Dichloropropene	ND	4.7	NA	1	B4C0386	03/19/2014	03/19/14 21:34	
1,2,3-Trichloropropane	ND	4.7	NA	1	B4C0386	03/19/2014	03/19/14 21:34	
1,2,3-Trichlorobenzene	ND	4.7	NA	1	B4C0386	03/19/2014	03/19/14 21:34	
1,2,4-Trichlorobenzene	ND	4.7	NA	1	B4C0386	03/19/2014	03/19/14 21:34	
1,2,4-Trimethylbenzene	ND	4.7	NA	1	B4C0386	03/19/2014	03/19/14 21:34	
1,2-Dibromo-3-chloropropane	ND	9.5	NA	1	B4C0386	03/19/2014	03/19/14 21:34	
1,2-Dibromoethane	ND	4.7	NA	1	B4C0386	03/19/2014	03/19/14 21:34	
1,2-Dichlorobenzene	ND	4.7	NA	1	B4C0386	03/19/2014	03/19/14 21:34	
1,2-Dichloroethane	ND	4.7	NA	1	B4C0386	03/19/2014	03/19/14 21:34	
1,2-Dichloropropane	ND	4.7	NA	1	B4C0386	03/19/2014	03/19/14 21:34	
1,3,5-Trimethylbenzene	ND	4.7	NA	1	B4C0386	03/19/2014	03/19/14 21:34	
1,3-Dichlorobenzene	ND	4.7	NA	1	B4C0386	03/19/2014	03/19/14 21:34	
1,3-Dichloropropane	ND	4.7	NA	1	B4C0386	03/19/2014	03/19/14 21:34	
1,4-Dichlorobenzene	ND	4.7	NA	1	B4C0386	03/19/2014	03/19/14 21:34	
2,2-Dichloropropane	ND	4.7	NA	1	B4C0386	03/19/2014	03/19/14 21:34	
2-Chlorotoluene	ND	4.7	NA	1	B4C0386	03/19/2014	03/19/14 21:34	
4-Chlorotoluene	ND	4.7	NA	1	B4C0386	03/19/2014	03/19/14 21:34	
4-Isopropyltoluene	ND	4.7	NA	1	B4C0386	03/19/2014	03/19/14 21:34	
Benzene	ND	4.7	NA	1	B4C0386	03/19/2014	03/19/14 21:34	
Bromobenzene	ND	4.7	NA	1	B4C0386	03/19/2014	03/19/14 21:34	
Bromochloromethane	ND	4.7	NA	1	B4C0386	03/19/2014	03/19/14 21:34	
Bromodichloromethane	ND	4.7	NA	1	B4C0386	03/19/2014	03/19/14 21:34	
Bromoform	ND	4.7	NA	1	B4C0386	03/19/2014	03/19/14 21:34	
Bromomethane	ND	4.7	NA	1	B4C0386	03/19/2014	03/19/14 21:34	
Carbon disulfide	ND	4.7	NA	1	B4C0386	03/19/2014	03/19/14 21:34	
Carbon tetrachloride	ND	4.7	NA	1	B4C0386	03/19/2014	03/19/14 21:34	
Chlorobenzene	ND	4.7	NA	1	B4C0386	03/19/2014	03/19/14 21:34	
Chloroethane	ND	4.7	NA	1	B4C0386	03/19/2014	03/19/14 21:34	
Chloroform	ND	4.7	NA	1	B4C0386	03/19/2014	03/19/14 21:34	
Chloromethane	ND	4.7	NA	1	B4C0386	03/19/2014	03/19/14 21:34	



Certificate of Analysis

Bowyer Environmental Consulting
17011 Beach Blvd., Suite 900
Huntington Beach, CA 92647

Project Number : Del Rey Cleaners, 170101

Report To : Brett Bowyer

Reported : 03/25/2014

Client Sample ID V-15-5-5.5

Lab ID: 1400816-05

Volatile Organic Compounds by EPA 5035/EPA 8260B

Analyst: BD

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
cis-1,2-Dichloroethene	ND	4.7	NA	1	B4C0386	03/19/2014	03/19/14 21:34	
cis-1,3-Dichloropropene	ND	4.7	NA	1	B4C0386	03/19/2014	03/19/14 21:34	
Di-isopropyl ether	ND	4.7	NA	1	B4C0386	03/19/2014	03/19/14 21:34	
Dibromochloromethane	ND	4.7	NA	1	B4C0386	03/19/2014	03/19/14 21:34	
Dibromomethane	ND	4.7	NA	1	B4C0386	03/19/2014	03/19/14 21:34	
Dichlorodifluoromethane	ND	4.7	NA	1	B4C0386	03/19/2014	03/19/14 21:34	
Ethyl Acetate	ND	47	NA	1	B4C0386	03/19/2014	03/19/14 21:34	
Ethyl Ether	ND	47	NA	1	B4C0386	03/19/2014	03/19/14 21:34	
Ethyl tert-butyl ether	ND	4.7	NA	1	B4C0386	03/19/2014	03/19/14 21:34	
Ethylbenzene	ND	4.7	NA	1	B4C0386	03/19/2014	03/19/14 21:34	
Freon-113	ND	4.7	NA	1	B4C0386	03/19/2014	03/19/14 21:34	
Hexachlorobutadiene	ND	4.7	NA	1	B4C0386	03/19/2014	03/19/14 21:34	
Isopropylbenzene	ND	4.7	NA	1	B4C0386	03/19/2014	03/19/14 21:34	
m,p-Xylene	ND	9.5	NA	1	B4C0386	03/19/2014	03/19/14 21:34	
Methylene chloride	ND	4.7	NA	1	B4C0386	03/19/2014	03/19/14 21:34	
MTBE	ND	4.7	NA	1	B4C0386	03/19/2014	03/19/14 21:34	
n-Butylbenzene	ND	4.7	NA	1	B4C0386	03/19/2014	03/19/14 21:34	
n-Propylbenzene	ND	4.7	NA	1	B4C0386	03/19/2014	03/19/14 21:34	
Naphthalene	ND	4.7	NA	1	B4C0386	03/19/2014	03/19/14 21:34	
o-Xylene	ND	4.7	NA	1	B4C0386	03/19/2014	03/19/14 21:34	
sec-Butylbenzene	ND	4.7	NA	1	B4C0386	03/19/2014	03/19/14 21:34	
Styrene	ND	4.7	NA	1	B4C0386	03/19/2014	03/19/14 21:34	
tert-Amyl methyl ether	ND	4.7	NA	1	B4C0386	03/19/2014	03/19/14 21:34	
tert-Butanol	ND	95	NA	1	B4C0386	03/19/2014	03/19/14 21:34	
tert-Butylbenzene	ND	4.7	NA	1	B4C0386	03/19/2014	03/19/14 21:34	
Tetrachloroethene	ND	4.7	NA	1	B4C0386	03/19/2014	03/19/14 21:34	
Toluene	ND	4.7	NA	1	B4C0386	03/19/2014	03/19/14 21:34	
trans-1,2-Dichloroethene	ND	4.7	NA	1	B4C0386	03/19/2014	03/19/14 21:34	
trans-1,3-Dichloropropene	ND	4.7	NA	1	B4C0386	03/19/2014	03/19/14 21:34	
Trichloroethene	ND	4.7	NA	1	B4C0386	03/19/2014	03/19/14 21:34	
Trichlorofluoromethane	ND	4.7	NA	1	B4C0386	03/19/2014	03/19/14 21:34	
Vinyl acetate	ND	47	NA	1	B4C0386	03/19/2014	03/19/14 21:34	
Vinyl chloride	ND	4.7	NA	1	B4C0386	03/19/2014	03/19/14 21:34	
Surrogate: 1,2-Dichloroethane-d4	127 %	63 - 167			B4C0386	03/19/2014	03/19/14 21:34	
Surrogate: 4-Bromofluorobenzene	99.9 %	63 - 130			B4C0386	03/19/2014	03/19/14 21:34	
Surrogate: Dibromofluoromethane	107 %	75 - 146			B4C0386	03/19/2014	03/19/14 21:34	



Certificate of Analysis

Bowyer Environmental Consulting
17011 Beach Blvd., Suite 900
Huntington Beach, CA 92647

Project Number : Del Rey Cleaners, 170101
Report To : Brett Bowyer
Reported : 03/25/2014

Client Sample ID V-15-5-5.5

Lab ID: 1400816-05

Volatile Organic Compounds by EPA 5035/EPA 8260B

Analyst: BD

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
<i>Surrogate: Toluene-d8</i>	<i>103 %</i>	<i>78 - 125</i>			B4C0386	03/19/2014	<i>03/19/14 21:34</i>	



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17011 Beach Blvd., Suite 900

Huntington Beach, CA 92647

Project Number : Del Rey Cleaners, 170101

Report To : Brett Bowyer

Reported : 03/25/2014

Client Sample ID V-16-5-5.5

Lab ID: 1400816-06

Volatile Organic Compounds by EPA 5035/EPA 8260B

Analyst: BD

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	5.0	NA	1	B4C0394	03/19/2014	03/20/14 15:22	
1,1,1-Trichloroethane	ND	5.0	NA	1	B4C0394	03/19/2014	03/20/14 15:22	
1,1,2,2-Tetrachloroethane	ND	5.0	NA	1	B4C0394	03/19/2014	03/20/14 15:22	
1,1,2-Trichloroethane	ND	5.0	NA	1	B4C0394	03/19/2014	03/20/14 15:22	
1,1-Dichloroethane	ND	5.0	NA	1	B4C0394	03/19/2014	03/20/14 15:22	
1,1-Dichloroethene	ND	5.0	NA	1	B4C0394	03/19/2014	03/20/14 15:22	
1,1-Dichloropropene	ND	5.0	NA	1	B4C0394	03/19/2014	03/20/14 15:22	
1,2,3-Trichloropropane	ND	5.0	NA	1	B4C0394	03/19/2014	03/20/14 15:22	
1,2,3-Trichlorobenzene	ND	5.0	NA	1	B4C0394	03/19/2014	03/20/14 15:22	
1,2,4-Trichlorobenzene	ND	5.0	NA	1	B4C0394	03/19/2014	03/20/14 15:22	
1,2,4-Trimethylbenzene	ND	5.0	NA	1	B4C0394	03/19/2014	03/20/14 15:22	
1,2-Dibromo-3-chloropropane	ND	10	NA	1	B4C0394	03/19/2014	03/20/14 15:22	
1,2-Dibromoethane	ND	5.0	NA	1	B4C0394	03/19/2014	03/20/14 15:22	
1,2-Dichlorobenzene	ND	5.0	NA	1	B4C0394	03/19/2014	03/20/14 15:22	
1,2-Dichloroethane	ND	5.0	NA	1	B4C0394	03/19/2014	03/20/14 15:22	
1,2-Dichloropropane	ND	5.0	NA	1	B4C0394	03/19/2014	03/20/14 15:22	
1,3,5-Trimethylbenzene	ND	5.0	NA	1	B4C0394	03/19/2014	03/20/14 15:22	
1,3-Dichlorobenzene	ND	5.0	NA	1	B4C0394	03/19/2014	03/20/14 15:22	
1,3-Dichloropropane	ND	5.0	NA	1	B4C0394	03/19/2014	03/20/14 15:22	
1,4-Dichlorobenzene	ND	5.0	NA	1	B4C0394	03/19/2014	03/20/14 15:22	
2,2-Dichloropropane	ND	5.0	NA	1	B4C0394	03/19/2014	03/20/14 15:22	
2-Chlorotoluene	ND	5.0	NA	1	B4C0394	03/19/2014	03/20/14 15:22	
4-Chlorotoluene	ND	5.0	NA	1	B4C0394	03/19/2014	03/20/14 15:22	
4-Isopropyltoluene	ND	5.0	NA	1	B4C0394	03/19/2014	03/20/14 15:22	
Benzene	ND	5.0	NA	1	B4C0394	03/19/2014	03/20/14 15:22	
Bromobenzene	ND	5.0	NA	1	B4C0394	03/19/2014	03/20/14 15:22	
Bromochloromethane	ND	5.0	NA	1	B4C0394	03/19/2014	03/20/14 15:22	
Bromodichloromethane	ND	5.0	NA	1	B4C0394	03/19/2014	03/20/14 15:22	
Bromoform	ND	5.0	NA	1	B4C0394	03/19/2014	03/20/14 15:22	
Bromomethane	ND	5.0	NA	1	B4C0394	03/19/2014	03/20/14 15:22	
Carbon disulfide	ND	5.0	NA	1	B4C0394	03/19/2014	03/20/14 15:22	
Carbon tetrachloride	ND	5.0	NA	1	B4C0394	03/19/2014	03/20/14 15:22	
Chlorobenzene	ND	5.0	NA	1	B4C0394	03/19/2014	03/20/14 15:22	
Chloroethane	ND	5.0	NA	1	B4C0394	03/19/2014	03/20/14 15:22	
Chloroform	ND	5.0	NA	1	B4C0394	03/19/2014	03/20/14 15:22	
Chloromethane	ND	5.0	NA	1	B4C0394	03/19/2014	03/20/14 15:22	



Certificate of Analysis

Bowyer Environmental Consulting
17011 Beach Blvd., Suite 900
Huntington Beach, CA 92647

Project Number : Del Rey Cleaners, 170101

Report To : Brett Bowyer

Reported : 03/25/2014

Client Sample ID V-16-5-5.5

Lab ID: 1400816-06

Volatile Organic Compounds by EPA 5035/EPA 8260B

Analyst: BD

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
cis-1,2-Dichloroethene	ND	5.0	NA	1	B4C0394	03/19/2014	03/20/14 15:22	
cis-1,3-Dichloropropene	ND	5.0	NA	1	B4C0394	03/19/2014	03/20/14 15:22	
Di-isopropyl ether	ND	5.0	NA	1	B4C0394	03/19/2014	03/20/14 15:22	
Dibromochloromethane	ND	5.0	NA	1	B4C0394	03/19/2014	03/20/14 15:22	
Dibromomethane	ND	5.0	NA	1	B4C0394	03/19/2014	03/20/14 15:22	
Dichlorodifluoromethane	ND	5.0	NA	1	B4C0394	03/19/2014	03/20/14 15:22	
Ethyl Acetate	ND	50	NA	1	B4C0394	03/19/2014	03/20/14 15:22	
Ethyl Ether	ND	50	NA	1	B4C0394	03/19/2014	03/20/14 15:22	
Ethyl tert-butyl ether	ND	5.0	NA	1	B4C0394	03/19/2014	03/20/14 15:22	
Ethylbenzene	ND	5.0	NA	1	B4C0394	03/19/2014	03/20/14 15:22	
Freon-113	ND	5.0	NA	1	B4C0394	03/19/2014	03/20/14 15:22	
Hexachlorobutadiene	ND	5.0	NA	1	B4C0394	03/19/2014	03/20/14 15:22	
Isopropylbenzene	ND	5.0	NA	1	B4C0394	03/19/2014	03/20/14 15:22	
m,p-Xylene	ND	10	NA	1	B4C0394	03/19/2014	03/20/14 15:22	
Methylene chloride	ND	5.0	NA	1	B4C0394	03/19/2014	03/20/14 15:22	
MTBE	ND	5.0	NA	1	B4C0394	03/19/2014	03/20/14 15:22	
n-Butylbenzene	ND	5.0	NA	1	B4C0394	03/19/2014	03/20/14 15:22	
n-Propylbenzene	ND	5.0	NA	1	B4C0394	03/19/2014	03/20/14 15:22	
Naphthalene	ND	5.0	NA	1	B4C0394	03/19/2014	03/20/14 15:22	
o-Xylene	ND	5.0	NA	1	B4C0394	03/19/2014	03/20/14 15:22	
sec-Butylbenzene	ND	5.0	NA	1	B4C0394	03/19/2014	03/20/14 15:22	
Styrene	ND	5.0	NA	1	B4C0394	03/19/2014	03/20/14 15:22	
tert-Amyl methyl ether	ND	5.0	NA	1	B4C0394	03/19/2014	03/20/14 15:22	
tert-Butanol	ND	100	NA	1	B4C0394	03/19/2014	03/20/14 15:22	
tert-Butylbenzene	ND	5.0	NA	1	B4C0394	03/19/2014	03/20/14 15:22	
Tetrachloroethene	ND	5.0	NA	1	B4C0394	03/19/2014	03/20/14 15:22	
Toluene	ND	5.0	NA	1	B4C0394	03/19/2014	03/20/14 15:22	
trans-1,2-Dichloroethene	ND	5.0	NA	1	B4C0394	03/19/2014	03/20/14 15:22	
trans-1,3-Dichloropropene	ND	5.0	NA	1	B4C0394	03/19/2014	03/20/14 15:22	
Trichloroethene	ND	5.0	NA	1	B4C0394	03/19/2014	03/20/14 15:22	
Trichlorofluoromethane	ND	5.0	NA	1	B4C0394	03/19/2014	03/20/14 15:22	
Vinyl acetate	ND	50	NA	1	B4C0394	03/19/2014	03/20/14 15:22	
Vinyl chloride	ND	5.0	NA	1	B4C0394	03/19/2014	03/20/14 15:22	
Surrogate: 1,2-Dichloroethane-d4	122 %		63 - 167		B4C0394	03/19/2014	03/20/14 15:22	
Surrogate: 4-Bromofluorobenzene	97.9 %		63 - 130		B4C0394	03/19/2014	03/20/14 15:22	
Surrogate: Dibromofluoromethane	101 %		75 - 146		B4C0394	03/19/2014	03/20/14 15:22	



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Bowyer Environmental Consulting
17011 Beach Blvd., Suite 900
Huntington Beach, CA 92647

Project Number : Del Rey Cleaners, 170101
Report To : Brett Bowyer
Reported : 03/25/2014

Client Sample ID V-16-5-5.5

Lab ID: 1400816-06

Volatile Organic Compounds by EPA 5035/EPA 8260B

Analyst: BD

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Surrogate: Toluene-d8	102 %		78 - 125		B4C0394	03/19/2014	03/20/14 15:22	



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Huntington Beach, CA 92647

Project Number : Del Rey Cleaners, 170101

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Reported : 03/25/2014

QUALITY CONTROL SECTION

Volatile Organic Compounds by EPA 5035/EPA 8260B - Quality Control

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B4C0386 - MSVOAS

Blank (B4C0386-BLK1)

Prepared: 3/19/2014 Analyzed: 3/19/2014

1,1,1,2-Tetrachloroethane	ND	5.0				NR			
1,1,1-Trichloroethane	ND	5.0				NR			
1,1,2,2-Tetrachloroethane	ND	5.0				NR			
1,1,2-Trichloroethane	ND	5.0				NR			
1,1-Dichloroethane	ND	5.0				NR			
1,1-Dichloroethene	ND	5.0				NR			
1,1-Dichloropropene	ND	5.0				NR			
1,2,3-Trichloropropane	ND	5.0				NR			
1,2,3-Trichlorobenzene	ND	5.0				NR			
1,2,4-Trichlorobenzene	ND	5.0				NR			
1,2,4-Trimethylbenzene	ND	5.0				NR			
1,2-Dibromo-3-chloropropane	ND	10				NR			
1,2-Dibromoethane	ND	5.0				NR			
1,2-Dichlorobenzene	ND	5.0				NR			
1,2-Dichloroethane	ND	5.0				NR			
1,2-Dichloropropane	ND	5.0				NR			
1,3,5-Trimethylbenzene	ND	5.0				NR			
1,3-Dichlorobenzene	ND	5.0				NR			
1,3-Dichloropropane	ND	5.0				NR			
1,4-Dichlorobenzene	ND	5.0				NR			
2,2-Dichloropropane	ND	5.0				NR			
2-Chlorotoluene	ND	5.0				NR			
4-Chlorotoluene	ND	5.0				NR			
4-Isopropyltoluene	ND	5.0				NR			
Benzene	ND	5.0				NR			
Bromobenzene	ND	5.0				NR			
Bromochloromethane	ND	5.0				NR			
Bromodichloromethane	ND	5.0				NR			
Bromoform	ND	5.0				NR			
Bromomethane	ND	5.0				NR			
Carbon disulfide	ND	5.0				NR			
Carbon tetrachloride	ND	5.0				NR			
Chlorobenzene	ND	5.0				NR			
Chloroethane	ND	5.0				NR			
Chloroform	ND	5.0				NR			
Chloromethane	ND	5.0				NR			
cis-1,2-Dichloroethene	ND	5.0				NR			
cis-1,3-Dichloropropene	ND	5.0				NR			



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Huntington Beach, CA 92647

Project Number : Del Rey Cleaners, 170101

Report To : Brett Bowyer

Reported : 03/25/2014

Volatile Organic Compounds by EPA 5035/EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B4C0386 - MSVOAS (continued)

Blank (B4C0386-BLK1) - Continued

Prepared: 3/19/2014 Analyzed: 3/19/2014

Di-isopropyl ether	ND	5.0			NR
Dibromochloromethane	ND	5.0			NR
Dibromomethane	ND	5.0			NR
Dichlorodifluoromethane	ND	5.0			NR
Ethyl Acetate	ND	50			NR
Ethyl Ether	ND	50			NR
Ethyl tert-butyl ether	ND	5.0			NR
Ethylbenzene	ND	5.0			NR
Freon-113	ND	5.0			NR
Hexachlorobutadiene	ND	5.0			NR
Isopropylbenzene	ND	5.0			NR
m,p-Xylene	ND	10			NR
Methylene chloride	ND	5.0			NR
MTBE	ND	5.0			NR
n-Butylbenzene	ND	5.0			NR
n-Propylbenzene	ND	5.0			NR
Naphthalene	ND	5.0			NR
o-Xylene	ND	5.0			NR
sec-Butylbenzene	ND	5.0			NR
Styrene	ND	5.0			NR
tert-Amyl methyl ether	ND	5.0			NR
tert-Butanol	ND	100			NR
tert-Butylbenzene	ND	5.0			NR
Tetrachloroethene	ND	5.0			NR
Toluene	ND	5.0			NR
trans-1,2-Dichloroethene	ND	5.0			NR
trans-1,3-Dichloropropene	ND	5.0			NR
Trichloroethene	ND	5.0			NR
Trichlorofluoromethane	ND	5.0			NR
Vinyl acetate	ND	50			NR
Vinyl chloride	ND	5.0			NR

Surrogate: 1,2-Dichloroethane-d4	54.63		50.0000	109	63 - 167
Surrogate: 4-Bromofluorobenzene	48.00		50.0000	96.0	63 - 130
Surrogate: Dibromofluoromethane	49.31		50.0000	98.6	75 - 146
Surrogate: Toluene-d8	51.25		50.0000	102	78 - 125

LCS (B4C0386-BS1)

Prepared: 3/19/2014 Analyzed: 3/19/2014

1,1-Dichloroethene	49.4500	5.0	50.0000	98.9	62 - 129
Benzene	53.0500	5.0	50.0000	106	82 - 121
Chlorobenzene	51.6800	5.0	50.0000	103	83 - 132



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Huntington Beach, CA 92647

Project Number : Del Rey Cleaners, 170101

Report To : Brett Bowyer

Reported : 03/25/2014

Volatile Organic Compounds by EPA 5035/EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B4C0386 - MSVOAS (continued)

LCS (B4C0386-BS1) - Continued

Prepared: 3/19/2014 Analyzed: 3/19/2014

MTBE	52.1900	5.0	50.0000		104	55 - 138			
Toluene	53.5800	5.0	50.0000		107	80 - 129			
Trichloroethene	51.1600	5.0	50.0000		102	75 - 133			
Surrogate: 1,2-Dichloroethane-d4	55.92		50.0000		112	63 - 167			
Surrogate: 4-Bromofluorobenzene	52.59		50.0000		105	63 - 130			
Surrogate: Dibromofluoromethane	53.57		50.0000		107	75 - 146			
Surrogate: Toluene-d8	53.78		50.0000		108	78 - 125			

Duplicate (B4C0386-DUP1)

Source: 1400836-01

Prepared: 3/19/2014 Analyzed: 3/19/2014

1,1-Dichloroethene	ND	12		ND	NR			20	
Benzene	ND	12		2.85000	NR			20	
Chlorobenzene	ND	12		ND	NR			20	
MTBE	ND	12		4.60000	NR			20	
Toluene	ND	12		3.65000	NR			20	
Trichloroethene	ND	12		ND	NR			20	
Surrogate: 1,2-Dichloroethane-d4	52.37		50.0000		105	63 - 167			
Surrogate: 4-Bromofluorobenzene	48.70		50.0000		97.4	63 - 130			
Surrogate: Dibromofluoromethane	50.14		50.0000		100	75 - 146			
Surrogate: Toluene-d8	52.93		50.0000		106	78 - 125			

Matrix Spike (B4C0386-MS1)

Source: 1400836-01

Prepared: 3/19/2014 Analyzed: 3/19/2014

1,1-Dichloroethene	91.5000	10	100.000	ND	91.5	48 - 127			
Benzene	89.9400	10	100.000	2.85000	87.1	57 - 125			
Chlorobenzene	77.5800	10	100.000	ND	77.6	42 - 141			
MTBE	97.6800	10	100.000	4.60000	93.1	44 - 137			
Toluene	85.7400	10	100.000	3.65000	82.1	40 - 143			
Trichloroethene	84.5800	10	100.000	ND	84.6	47 - 148			
Surrogate: 1,2-Dichloroethane-d4	54.75		50.0000		110	63 - 167			
Surrogate: 4-Bromofluorobenzene	49.72		50.0000		99.4	63 - 130			
Surrogate: Dibromofluoromethane	52.07		50.0000		104	75 - 146			
Surrogate: Toluene-d8	52.55		50.0000		105	78 - 125			

Matrix Spike Dup (B4C0386-MSD1)

Source: 1400836-01

Prepared: 3/19/2014 Analyzed: 3/19/2014

1,1-Dichloroethene	84.9400	10	100.000	ND	84.9	48 - 127	7.44	20	
Benzene	80.4800	10	100.000	2.85000	77.6	57 - 125	11.1	20	
Chlorobenzene	64.3200	10	100.000	ND	64.3	42 - 141	18.7	20	
MTBE	98.5200	10	100.000	4.60000	93.9	44 - 137	0.856	20	
Toluene	76.6200	10	100.000	3.65000	73.0	40 - 143	11.2	20	
Trichloroethene	73.4600	10	100.000	ND	73.5	47 - 148	14.1	20	
Surrogate: 1,2-Dichloroethane-d4	55.84		50.0000		112	63 - 167			



Certificate of Analysis

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Huntington Beach, CA 92647

Project Number : Del Rey Cleaners, 170101
Report To : Brett Bowyer
Reported : 03/25/2014

Volatile Organic Compounds by EPA 5035/EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
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Batch B4C0386 - MSVOAS (continued)

Matrix Spike Dup (B4C0386-MSD1) - Continued

Source: 1400836-01

Prepared: 3/19/2014 Analyzed: 3/19/2014

Surrogate: 4-Bromofluorobenzene	49.85		50.0000		99.7	63 - 130			
Surrogate: Dibromofluoromethane	52.02		50.0000		104	75 - 146			
Surrogate: Toluene-d8	52.18		50.0000		104	78 - 125			

Batch B4C0394 - MSVOAS

Blank (B4C0394-BLK1)

Prepared: 3/20/2014 Analyzed: 3/20/2014

1,1,1,2-Tetrachloroethane	ND	5.0			NR				
1,1,1-Trichloroethane	ND	5.0			NR				
1,1,2,2-Tetrachloroethane	ND	5.0			NR				
1,1,2-Trichloroethane	ND	5.0			NR				
1,1-Dichloroethane	ND	5.0			NR				
1,1-Dichloroethene	ND	5.0			NR				
1,1-Dichloropropene	ND	5.0			NR				
1,2,3-Trichloropropane	ND	5.0			NR				
1,2,3-Trichlorobenzene	ND	5.0			NR				
1,2,4-Trichlorobenzene	ND	5.0			NR				
1,2,4-Trimethylbenzene	ND	5.0			NR				
1,2-Dibromo-3-chloropropane	ND	10			NR				
1,2-Dibromoethane	ND	5.0			NR				
1,2-Dichlorobenzene	ND	5.0			NR				
1,2-Dichloroethane	ND	5.0			NR				
1,2-Dichloropropane	ND	5.0			NR				
1,3,5-Trimethylbenzene	ND	5.0			NR				
1,3-Dichlorobenzene	ND	5.0			NR				
1,3-Dichloropropane	ND	5.0			NR				
1,4-Dichlorobenzene	ND	5.0			NR				
2,2-Dichloropropane	ND	5.0			NR				
2-Chlorotoluene	ND	5.0			NR				
4-Chlorotoluene	ND	5.0			NR				
4-Isopropyltoluene	ND	5.0			NR				
Benzene	ND	5.0			NR				
Bromobenzene	ND	5.0			NR				
Bromochloromethane	ND	5.0			NR				
Bromodichloromethane	ND	5.0			NR				
Bromoform	ND	5.0			NR				
Bromomethane	ND	5.0			NR				
Carbon disulfide	ND	5.0			NR				
Carbon tetrachloride	ND	5.0			NR				
Chlorobenzene	ND	5.0			NR				



Certificate of Analysis

Bowyer Environmental Consulting
17011 Beach Blvd., Suite 900
Huntington Beach, CA 92647

Project Number : Del Rey Cleaners, 170101

Report To : Brett Bowyer

Reported : 03/25/2014

Volatile Organic Compounds by EPA 5035/EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B4C0394 - MSVOAS (continued)

Blank (B4C0394-BLK1) - Continued

Prepared: 3/20/2014 Analyzed: 3/20/2014

Chloroethane	ND	5.0			NR
Chloroform	ND	5.0			NR
Chloromethane	ND	5.0			NR
cis-1,2-Dichloroethene	ND	5.0			NR
cis-1,3-Dichloropropene	ND	5.0			NR
Di-isopropyl ether	ND	5.0			NR
Dibromochloromethane	ND	5.0			NR
Dibromomethane	ND	5.0			NR
Dichlorodifluoromethane	ND	5.0			NR
Ethyl Acetate	ND	50			NR
Ethyl Ether	ND	50			NR
Ethyl tert-butyl ether	ND	5.0			NR
Ethylbenzene	ND	5.0			NR
Freon-113	ND	5.0			NR
Hexachlorobutadiene	ND	5.0			NR
Isopropylbenzene	ND	5.0			NR
m,p-Xylene	ND	10			NR
Methylene chloride	ND	5.0			NR
MTBE	ND	5.0			NR
n-Butylbenzene	ND	5.0			NR
n-Propylbenzene	ND	5.0			NR
Naphthalene	ND	5.0			NR
o-Xylene	ND	5.0			NR
sec-Butylbenzene	ND	5.0			NR
Styrene	ND	5.0			NR
tert-Amyl methyl ether	ND	5.0			NR
tert-Butanol	ND	100			NR
tert-Butylbenzene	ND	5.0			NR
Tetrachloroethene	ND	5.0			NR
Toluene	ND	5.0			NR
trans-1,2-Dichloroethene	ND	5.0			NR
trans-1,3-Dichloropropene	ND	5.0			NR
Trichloroethene	ND	5.0			NR
Trichlorofluoromethane	ND	5.0			NR
Vinyl acetate	ND	50			NR
Vinyl chloride	ND	5.0			NR

Surrogate: 1,2-Dichloroethane-d4	55.81	50.0000	112	63 - 167
Surrogate: 4-Bromofluorobenzene	48.92	50.0000	97.8	63 - 130
Surrogate: Dibromofluoromethane	48.78	50.0000	97.6	75 - 146
Surrogate: Toluene-d8	51.91	50.0000	104	78 - 125



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Volatile Organic Compounds by EPA 5035/EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B4C0394 - MSVOAS (continued)

LCS (B4C0394-BS1)

Prepared: 3/20/2014 Analyzed: 3/20/2014

1,1-Dichloroethene	47.7300	5.0	50.0000		95.5	62 - 129			
Benzene	51.3500	5.0	50.0000		103	82 - 121			
Chlorobenzene	50.9400	5.0	50.0000		102	83 - 132			
MTBE	50.0900	5.0	50.0000		100	55 - 138			
Toluene	52.2000	5.0	50.0000		104	80 - 129			
Trichloroethene	50.6100	5.0	50.0000		101	75 - 133			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>54.08</i>		<i>50.0000</i>		<i>108</i>	<i>63 - 167</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>52.40</i>		<i>50.0000</i>		<i>105</i>	<i>63 - 130</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>52.27</i>		<i>50.0000</i>		<i>105</i>	<i>75 - 146</i>			
<i>Surrogate: Toluene-d8</i>	<i>51.48</i>		<i>50.0000</i>		<i>103</i>	<i>78 - 125</i>			

Duplicate (B4C0394-DUP1)

Source: 1400832-02

Prepared: 3/20/2014 Analyzed: 3/20/2014

1,1-Dichloroethene	ND	5.0		ND	NR			20	
Benzene	ND	5.0		ND	NR			20	
Chlorobenzene	ND	5.0		ND	NR			20	
MTBE	ND	5.0		ND	NR			20	
Toluene	ND	5.0		ND	NR			20	
Trichloroethene	ND	5.0		ND	NR			20	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>54.63</i>		<i>50.0000</i>		<i>109</i>	<i>63 - 167</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>48.11</i>		<i>50.0000</i>		<i>96.2</i>	<i>63 - 130</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>50.20</i>		<i>50.0000</i>		<i>100</i>	<i>75 - 146</i>			
<i>Surrogate: Toluene-d8</i>	<i>50.75</i>		<i>50.0000</i>		<i>102</i>	<i>78 - 125</i>			

Matrix Spike (B4C0394-MS1)

Source: 1400832-02

Prepared: 3/20/2014 Analyzed: 3/20/2014

1,1-Dichloroethene	44.6000	5.0	50.0000	ND	89.2	48 - 127			
Benzene	48.4200	5.0	50.0000	ND	96.8	57 - 125			
Chlorobenzene	49.0300	5.0	50.0000	ND	98.1	42 - 141			
MTBE	51.3500	5.0	50.0000	ND	103	44 - 137			
Toluene	49.6700	5.0	50.0000	ND	99.3	40 - 143			
Trichloroethene	46.7800	5.0	50.0000	ND	93.6	47 - 148			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>55.34</i>		<i>50.0000</i>		<i>111</i>	<i>63 - 167</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>51.28</i>		<i>50.0000</i>		<i>103</i>	<i>63 - 130</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>51.94</i>		<i>50.0000</i>		<i>104</i>	<i>75 - 146</i>			
<i>Surrogate: Toluene-d8</i>	<i>51.65</i>		<i>50.0000</i>		<i>103</i>	<i>78 - 125</i>			

Matrix Spike Dup (B4C0394-MSD1)

Source: 1400832-02

Prepared: 3/20/2014 Analyzed: 3/20/2014

1,1-Dichloroethene	43.4000	5.0	50.0000	ND	86.8	48 - 127	2.73	20	
Benzene	48.0500	5.0	50.0000	ND	96.1	57 - 125	0.767	20	
Chlorobenzene	48.3300	5.0	50.0000	ND	96.7	42 - 141	1.44	20	
MTBE	50.2100	5.0	50.0000	ND	100	44 - 137	2.24	20	
Toluene	48.9100	5.0	50.0000	ND	97.8	40 - 143	1.54	20	



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Volatile Organic Compounds by EPA 5035/EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B4C0394 - MSVOAS (continued)

Matrix Spike Dup (B4C0394-MSD1) - Continued

Source: 1400832-02

Prepared: 3/20/2014 Analyzed: 3/20/2014

Trichloroethene	47.6800	5.0	50.0000	ND	95.4	47 - 148	1.91	20	
Surrogate: 1,2-Dichloroethane-d4	55.27		50.0000		111	63 - 167			
Surrogate: 4-Bromofluorobenzene	52.38		50.0000		105	63 - 130			
Surrogate: Dibromofluoromethane	52.14		50.0000		104	75 - 146			
Surrogate: Toluene-d8	51.53		50.0000		103	78 - 125			



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Notes and Definitions

ND	Analyte is not detected at or above the Practical Quantitation Limit (PQL). When client requests quantitation against MDL, analyte is not detected at or above the Method Detection Limit (MDL)
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
NR	Not Reported
RPD	Relative Percent Difference
CA2	CA-ELAP (CDPH)
OR1	OR-NELAP (OSPHL)
TX1	TX-NELAP (TCEQ)

Notes:

- (1) The reported MDL and PQL are based on prep ratio variation and analytical dilution.
- (2) The suffix [2C] of specific analytes signifies that the reported result is taken from the instrument's second column.
- (3) Results are wet unless otherwise specified.

CHAIN OF CUSTODY RECORD

Page 1 of 1

For Laboratory Use Only
ATLCC Ver 20130715

Method of Transport		Sample Conditions Upon Receipt	
Condition	Y	Y	N
1. CHILLED	☒	5. # OF SAMPLES MATCH COC	☐
2. HEADSPACE (VIA)	☐	6. PRESERVED	☐
3. CONTAINER INTACT	☐	7. COOLER TEMP. deg. C:	4.3
4. SEALED	☐		

Instruction: Complete all shaded areas.

Company: **BEC** Address: **7401 Beach Blvd, Suite 900** Tel: **877-237-4628**
City: **Huntington Beach** State: **CA** Zip: **92647** Fax: **92647**

Attn: **Brett Willy** Email: **Brett / Lin**
Company: **BEC**
Address: **BEC**

City: State: Zip:

Project Name: **Del Rey Cleaners** Quote No: **7401** PO #: **Willy Ramiel**

ITEM	Lab No.	Sample Description		Special Instructions/Comments:	
		Sample ID / Location	Date	Time	
1	14008/C - 1	V-4-5-5.5	3/18/14	0745	
2	- 2	V-12-5-5.5		0846	
3	- 3	V-13-5-5.5		0800	
4	- 4	V-14-5-5.5		0804	
5	- 5	V-15-5-5.5		0827	
6	- 6	V-16-5-5.5		0820	
7					
8					
9					
10					

As the authorized agent of the company above, I hereby purchase laboratory services from ATL as shown above and hereby guarantee payment as quoted.

Signature: **Willy Ramiel** Date: **3/18/14** Time: **1036**

Submitter Print Name: **Willy Ramiel**

Received by: (Signature and Printed Name) **Willy Ramiel** Date: **3/18/14** Time: **1036**

Received by: (Signature and Printed Name) Date: Time:

Received by: (Signature and Printed Name) Date: Time: