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October 11, 2013

Mr. Brian Jankauskas, P.E.
New York State Department of Environmental Remediation
Division of Environmental Remediation
Remedial Bureau A – Section C
625 Broadway
Albany, New York 12233-7015

Re: Revised Supplementary ISCO Work Plan
Melody Cleaners Site – 2050 Hempstead Turnpike, East Meadow, New York
NYSDEC VCP Site No. V00347-1

Dear. Mr. Jankauskas,

Impact Environmental Closures, Inc. (IEC) on the behalf of Capparelli Properties, Ltd. is pleased to present the following Revised Supplementary ISCO Work Plan for the abovementioned Site. Said revised Work Plan was prepared at the request of the New York State Department of Environmental Conservation (NYSDEC) pursuant towards the remediation of dissolved chlorinated volatile organic compounds (CVOCs) found in groundwater at the southern section of the abovementioned Site, and revised pursuant to the September 26, 2013 Department comments related to the September 19, 2013 Supplemental Work Plan submission.

Site Description and Environmental History

The Site is located at 2050 Hempstead Turnpike, East Meadow, Long Island, New York, and is designated by the Nassau County Tax Assessors Office as Section 50, Block C, Lot 22. The Site is located within a 74,702 square foot commercial shopping center situated at the southwestern intersection of Hempstead Turnpike and Front Street. The shopping center contains five single-story buildings that are currently utilized by separate tenants including two (2) retail food service operations, a retail laundromat facility, a retail clothing dry-cleaning facility and an automotive car wash facility. The surface area of the Site consists of asphalt parking areas and concrete walkways. The Site exhibits low topographic relief (one to three percent slopes). The elevation of the Site, as presented on the United States Geologic Survey (USGS), Freeport Quadrangle Map, approximates eighty-five (85) feet above mean sea level.

Previous subsurface investigations performed at this Site reported a release of chlorinated-solvent related waste, originating from the Site dry cleaning facility into the former onsite leaching structure system. Said leaching structure system was remediated to the satisfaction of the Department. Current remedial work at this Site for addressing residual contaminants in soil, soil vapor and groundwater consist of the operation of an onsite soil vapor extraction system, in concert with in-situ chemical oxidation (ISCO) injections and long-term groundwater quality monitoring.

Baseline Assessment and ISCO Pilot Test

A baseline assessment of onsite soil and groundwater quality and ISCO Pilot test were performed between August 2010 and March 2011. Said work was performed pursuant to the investigation and work tasks cited in the NYSDEC-approved March 2010 Remediation Plan, to mitigate residual groundwater

contamination utilizing chemical oxidant subsurface injections in concert with the existing soil vapor extraction (SVE) remediation system. The baseline assessment work was designed and performed to delineate subsurface soil and groundwater quality at the Site and to determine to oxidant demand in the substratum, prior to the ISCO pilot test application. The related sampling and assessment work was performed within the extent of the contaminate source area, proximal to the former leaching discharge system, which was remediated in 2006 to the approval of the Department. The ISCO Pilot Test Work was designed and performed to evaluate and determine a suitable oxidant for the full scale application, to evaluate a suitable injection radius of influence and injection pattern, and to determine the sufficient loading rate for the oxidant agent.

The results of the baseline assessment and ISCO pilot test work yielded the following results which were utilized in the final design of the full scale ISCO application:

- In the area proximal to the Melody Cleaners leaching structures (Zone 1), remedial source removal in concert with the operation of the SVE system have successfully mitigated contaminants in said area.
- In the area proximal to monitoring well MLW-1IS, located hydraulically downgradient from the former Site leaching structures (Zone 2), appears to be the remaining onsite area of concern, based upon the baseline assessment and pilot test groundwater sampling results.
- There appears to be a continuous, onsite, shallow clay layer, within Zone 1 and Zone 2 at approximately 115 to 120 feet below grade. It also appears that the majority of residual dissolved phase CVOCs in groundwater at Zone 2 is contained to above said confining layer.
- The permanganate natural oxidant demand PNOD laboratory results for the soil sample collected during the baseline assessment, reported a 48-hr permanganate demand value of 2.3 g/kg; indicating favorable conditions for in-situ chemical oxidation utilizing potassium permanganate.
- Based upon the pilot test results, PNOD soil laboratory results, groundwater CVOC laboratory results, and a cost evaluation analyses for the remedy, potassium permanganate was selected as the Oxidant for the full scale ISCO remedy.

November 2011 – January 2012 Full-Scale ISCO Application

A full scale onsite ISCO application was conducted in a phased approach between November 2011 and January 2012. The ISCO application design was based upon the baseline assessment and ISCO pilot test results. The target treatment area was separated into two zones, similar to the ISCO pilot test; Zone 1 designated as the area between the Melody Cleaners building and the retail laundromat building, and Zone 2 designated as the area to the south and east of the laundromat building.

The injections were performed utilizing direct push techniques and by direct injections into three (3) injection well clusters, installed within Zone 1 and Zone 2. A total of 41 direct push injections were installed; four (4) injections within Zone 1 and thirty-seven (37) injections within Zone 2. Said direct push injections were installed, utilizing bottom-up injection techniques, between 80 and 160 feet below existing grade (BEG) to a terminal depth of 20 feet BEG. The direct push injection oxidant loading rate was estimated at 5 pounds of oxidant at a working concentration of approximately 4% in solution per linear foot of injection. Three injection well clusters were installed in November 2011, with each well cluster consisting of a shallow injection well (screened between 25 to 45 feet BEG) and a deep injection well (screened between 60 to 80 feet BEG). One well cluster (IW-1S/1W-1D) was cited within Zone One and two well clusters (IW-2S/IW-2D and IW-3S/IW-3D) were cited in Zone 2. The direct injection oxidant loading rate within said wells was estimated at 10 pounds of oxidant at a working concentration of approximately 4% in solution per linear foot of well screen. A total of 17,229.75 pounds of RemOx-S was injected by direct push methods and an additional 1,323 pounds of RemOx-S was injected directly into the injection wells, as part of the ISCO application work.

The results of the November 2011 – January 2012 full-scale ISCO application work yielded the following results which were utilized in the final design of this supplementary ISCO Work Plan:

- No significant chances in CVOC concentrations in groundwater within Zone 1 were observed after the pilot test and full scale ISCO applications. Minimal residual CVOC concentration were observed in groundwater samples collected prior to and after the full-scale ISCO application.
- A significantly measured decrease in CVOC concentrations in groundwater with Zone 2 were observed, after the full-scale ISCO application work. PCE concentrations in groundwater samples collected from monitoring well MLW-1IS, indicated a reduction in concentration from the pre-injection concentrations detected in November 2011 (2,100 µg/l) to the post-injection PCE concentrations in May 2012 (850 µg/l), approximately four months after the full-scale ISCO work was completed. Said PCE concentrations have remained relatively stable, as evident by the March 2013 (1,000 µg/l) and June 2013 (850 µg/l) groundwater sampling results.
- Slightly elevated concentrations of trivalent chromium, mercury, and other metal analytes were observed on groundwater samples collected from the Zone 2 monitoring wells (MLW-1IS and MLW-1ID, remedial system wells (SVE-2) and sentinel wells (SW-1) within four (4) months after completion of the ISCO injection work.
- Any future injection work will be concentrated in Zone 2.

September 2013 Supplementary ISCO Application

Design and Scope of Supplementary ISCO Injection Work

The purpose of the supplementary ISCO injection work is to reduce the mass of PCE and its breakdown components within Zone 2 and to minimize migration to downgradient receptors, thereby reducing risk to human health and the environment.

At Zone-1, the detected levels of PCE in groundwater were marginally above the applicable guidance value, and therefore the ISCO application in Zone-1 is unlikely to be cost-effective and/or useful in the remediation of Zone 2. It appears that remedial source removal in concert with the operation of the SVE system have successfully mitigated contaminants in said area Accordingly, no ISCO injections are planned at Zone-1 as part of this work.

At Zone-2, the supplementary ISCO application will be performed with focus in the vicinity of the former leaching structures and proximal to the MLW-1 well cluster. Said injections will be conducted directly through injection well clusters IW-2 and IW-3; both located within Zone 2.

The results of the ISCO pilot test, ISCO full-scale application and post-injection groundwater sampling data were reviewed and scrutinized with the project design staff from the Carus Corporation, (RemOx manufacturer). The following assumptions were made in regards to the performance of the ISCO application(s).

- The RemOx-S (potassium permanganate) solution injections were successful at reducing PCE concentrations in groundwater. However, a stronger concentration of RemOx is recommended to remediate the remaining PCE in groundwater. The manufacturer's maximum recommended concentration of RemOx-S that can be successfully injected without significant precipitation is 4% by volume.
- It appears that the amount oxidant consumed by the soil matrix is less than the 2.3 g/kg calculated during the baseline assessment work. For the supplementary design, a SOD value of 1 g/kg will be utilized.

- It appears that the injection radius of influence (ROI) is greater than the 15 foot radius, assumed for the design of the previous full scale application. Said ROI was verified during the November 2011 – January 2012 Full-Scale ISCO application work, as the presence of the oxidant solution was detected and verified in sentinel well SW-1, located approximately 19 to 20 feet from the closest ISCO injection location. Based on said verification, the ROI used for the design of this work will be conservatively set at 17.5 feet.
- The assumed concentrations of PCE in groundwater utilized for the design of the supplementary ISCO injection work is 1,000 µg/l; concentrated within Zone 2 proximal to monitoring well MLW-1IS, at or above the observed confining layer at approximately 115 feet BEG.

Based upon the results of the full-scale ISCO application, with observed field parameter measurements and subsequent groundwater sampling results, an alternative permanganate remedial approach is proposed to facilitate a more aggressive approach to remediating PCE concentrations in groundwater at Zone 2. The alternative approach consists of injecting RemOx-L (sodium permanganate) instead of RemOx-S (potassium permanganate). Both forms of permanganate injections have the same oxidizing capabilities and limitations, have the same density-driven diffusion capabilities, and will react similarly to PCE. The main difference between both compounds is that the potassium-based compound is approximately 12 to 15 times less soluble than the sodium-based compound. The sodium-based compound requires less contact time to oxidize contaminants, and is less likely to precipitate to a crystalline solid, due to substratum temperature differences, thereby increasing the effective oxidizing capabilities once injected into the saturated media.

The following data was utilized as part of the dosage model prepared by the manufacturer:

- Injection radius of influence: 17.5 ft.
- Porosity (n): 0.35
- Revised PNOD 1.0 g/kg
- Effective PNOD 10%
- Oxidant Demand (PCE) 0.96 lb./lb.
- Contaminant (PCE) concentration 1,000 µg/l (assumed throughout injection zones)
- Contaminant (PCE) mass 1.68 lb.

Based upon the manufactures model results, approximately 1,903 pounds (167 gallons) of 40% stock RemOx-L solution will be utilized for this work. Said solution will be diluted to a 4% working solution and directly injected into injection wells IW-2S, IW-2D, IW-3S and IW-3D. Utilizing the calculated specific gravity of the diluted solution (1.03665 g/ml) the following oxidant loading and molar dilution calculation results are as follows:

- Oxidant Loading: 9.52 lbs. of oxidant per linear ft. of well screen (761.2 lbs. total)
- Diluted Solution: 27.5 gal. of 4% solution per linear ft. of well screen (2,200 gal. total)

Manufacturer provided specifications of the RemOx-L oxidant with the manufacturer dosage calculation model results are provided in **Attachment A**.

<u>Implementation Sequence</u>

Step 1: Baseline Groundwater Sampling

Initial baseline groundwater sampling was performed during the June 2013 quarterly sampling event. In addition to typical VOC analyses and field parameter measurements, Target Analyte List (TAL) total metals and chemical oxygen demand (COD) analyses were performed in groundwater samples collected from monitoring wells MLW-1IS, MLW-1ID and MLW-1D, injection wells IW-3S and IW-3D, remedial system well SVE-2 and sentinel well SW-1. Said sampling results were used by the oxidant manufacturer to construct

the supplementary ISCO application model calculations. Said analyses were tabulated and presented in **Table 1** and **Table 2,** and the laboratory analytical summary data for the June 2013 quarterly sampling event is presented in **Attachment B**.

A second baseline groundwater sampling event will be performed concurrent with the September/October 2013 quarterly sampling event, prior to the supplementary injection work. The purpose of the second baseline event is to obtain updated concentrations of CVOCs in groundwater and field parameter measurements from wells within the treatment area, just prior to the injection work. Said groundwater samples will be collected from monitoring wells MLW-1IS, MLW-1ID and MLW-1D, injection wells IW-2S, IW-2D, IW-3S and IW-3D, and sentinel well SW-1.

Remediation-grade permanganate solutions reportedly contain heavy metal impurities; including, but limited to, arsenic and chromium. Although said impurities are more pronounced in potassium permanganate (RemOx-S) solutions, said impurities are commonly found in sodium permanganate (RemOx-L) solutions. The potential also exists for the mobilization of naturally occurring metals to in the substratum after permanganate-related ISCO injections. Elevated concentrations of said impurities and mobilized metals were present in groundwater samples collected from the abovementioned onsite wells after the ISCO pilot test and full scale application. Post-injection monitoring for metals in groundwater will be performed as described in Step 5. In addition, a baseline groundwater sample will be collected prior to the injection work from monitoring well MLW-2I and analyzed for TAL total metals. Said offsite well is located approximately 275-300 feet hydraulically downgradient of the Site, and will be incorporated into the post-injection monitoring network, as described in Step 5.

The locations of the abovementioned onsite injection wells, monitoring wells, and sentinel well are shown on **Figure 1**.

Step 2: Injection Notifications

Prior to implementing the injection work, the following entities in addition to the NYSDEC, NYSDOH and NCDOH will be notified ten (10) days prior to the start of the work:

- United States Environmental Protection Agency (USEPA): A work notification correspondence will be prepared and delivered to the USEPA Region Two office, in accordance with federal underground injection control (UIC) regulations. A copy of the Department-approved work plan and related UIC injection well inventory forms will be submitted concurrent with the notification.

- Town of Hempstead Department of Water – East Meadow Water District: A work notification correspondence will be prepared and delivered to the Department, concurrent with a copy of the Department-approved work plan.

Step 3: Field Parameter Equipment Installation

Monitoring well MLW-1IS, and sentinel well SW-1 will be utilized as observation wells for this work. Prior to the supplementary ISCO injection work, physical parameter data loggers will be installed within each of the observation wells. Said data loggers will be installed prior to the injection event. Groundwater data will be collected prior to and during the ISCO injection work, and for approximately nine (9) to ten (10) days after the injection work is completed. Said physical parameter information will consist of water table elevation, pH, oxidation-reduction potential (ORP), dissolved oxygen (DO), turbidity, temperature and electric conductivity.

Step 4: ISCO via Injection Wells

Pressurized ISCO injections will be conducted through the IW-2 and IW-3 injection well clusters. The concentrated RemOx-L solution will be metered with potable water into a portable, polyethylene storage tank, to achieve the 4% diluted working solution concentration. Once said concentration is achieved, the working solution will be directly conveyed into each of the four injection well, utilizing a centrifugal pump. A series of pressure gauges and flow rate meters will be utilized to gauge the rate of solution introduced into each injection well. Upon completion of the solution injection, the injection wells will be flushed with water to prevent against potential well screen fouling by precipitated MnO_2 crystals.

Step 5: ISCO Performance Monitoring

The purpose of performance monitoring and post injection sampling is to assess the long-term effectiveness of the ISCO remedy and to monitor potential mobilization of metals in groundwater.

Two (2) groundwater sampling events will be performed to evaluate the effectiveness of the injected oxidants and to monitor potential metal mobilization:

- The first sampling event will be performed approximately thirty (30) days after the completion of the proposed ISCO injection work.
- The second sampling event will be performed concurrent with the fourth quarter 2013 groundwater sampling event.

Groundwater samples will be collected from onsite monitoring wells MLW-1IS, MLW-1ID and MLW-1D, offsite monitoring well MLW-2I, injection wells IW-2S, IW-2I, IW-3S and IW-3D, and sentinel well SW-1 will be field measured for pH, temperature, DO, salinity, electric conductivity and turbidity during each event and measured for permanganate concentration utilizing a Hach Colorimeter II Manganese HR System (0.2-20 ppm). In addition to typical VOC analyses and the abovementioned field parameter measurements, said groundwater samples will be analyzed for TAL total metals, to track the potential mobilization of metals in groundwater resultant from the proposed ISCO injection work. The performance of the ISCO injection work will be reported concurrent with the fourth quarter 2013 groundwater sampling monitoring event report. Additional groundwater metals analyses may be performed in future groundwater sampling events based upon the results of the abovementioned performance monitoring analyses.

Step 6: Contingency Injection

If deemed necessary by on-site post-injection monitoring data, multiple injections will be conducted through the installed injection wells. Upon consulting with the NYSDEC, other existing wells may also be utilized for injection. If said additional injections are required by the Department, an additional supplementary ISCO work plan will be prepared and submitted to the Department for review, prior to implementation.

<u>Health and Safety Plan</u>

A Health and Safety Plan (HASP) was previously prepared on October 28, 2011 and submitted to the Department, prior to the implementation of the ISCO Pilot Test and subsequent November 2011 – January 2012 Full-Scale ISCO Application. Said HASP addressed precautions for RemOx-S and RemOX-L ISCO implementation activities, included relevant materials safety data sheets for chemicals brought onsite, and detailed on how the chemicals will be properly stored and utilized so that the workers and the public are protected during the remedial activities. The HASP also included a community air monitoring program (CAMP) to describe in detail the ambient air monitoring activities during the ISCO implementation. The

HASP also addressed communication protocols between the field staff and on-site workers and residents, both before and during ISCO implementation, will be coordinated to minimize health and safety risks by securing the ISCO staging and implementation area from pedestrian traffic.

IEC will implement this Department-approved HASP, specific to the abovementioned ISCO injection work proposed in this supplementary work plan. A copy of the HASP is presented in **Attachment C**.

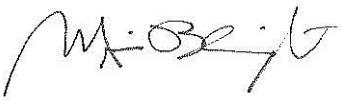
Quality Assurance Procedures Plan

A Quality Assurance Procedures Plan (QAPP) was prepared as a component of the NYSDEC-approved *March 2, 2010, Remediation Plan*, to establish specific procedures that will be followed during the supplementary ISCO injection work, to identify the responsibilities of the Site officers during the injection work, establish protocols and procedures to ensure the quality and reliability of the field measurements and subsequent post-injection groundwater sampling data, and establish protocols and procedures to determine whether the resultant laboratory analytical data meets the project data quality objectives. IEC will re-implement the abovementioned QAPP for the supplementary ISCO injection work, as proposed in this work plan.

Please feel free to contact us with any questions or comments regarding this supplementary work plan.

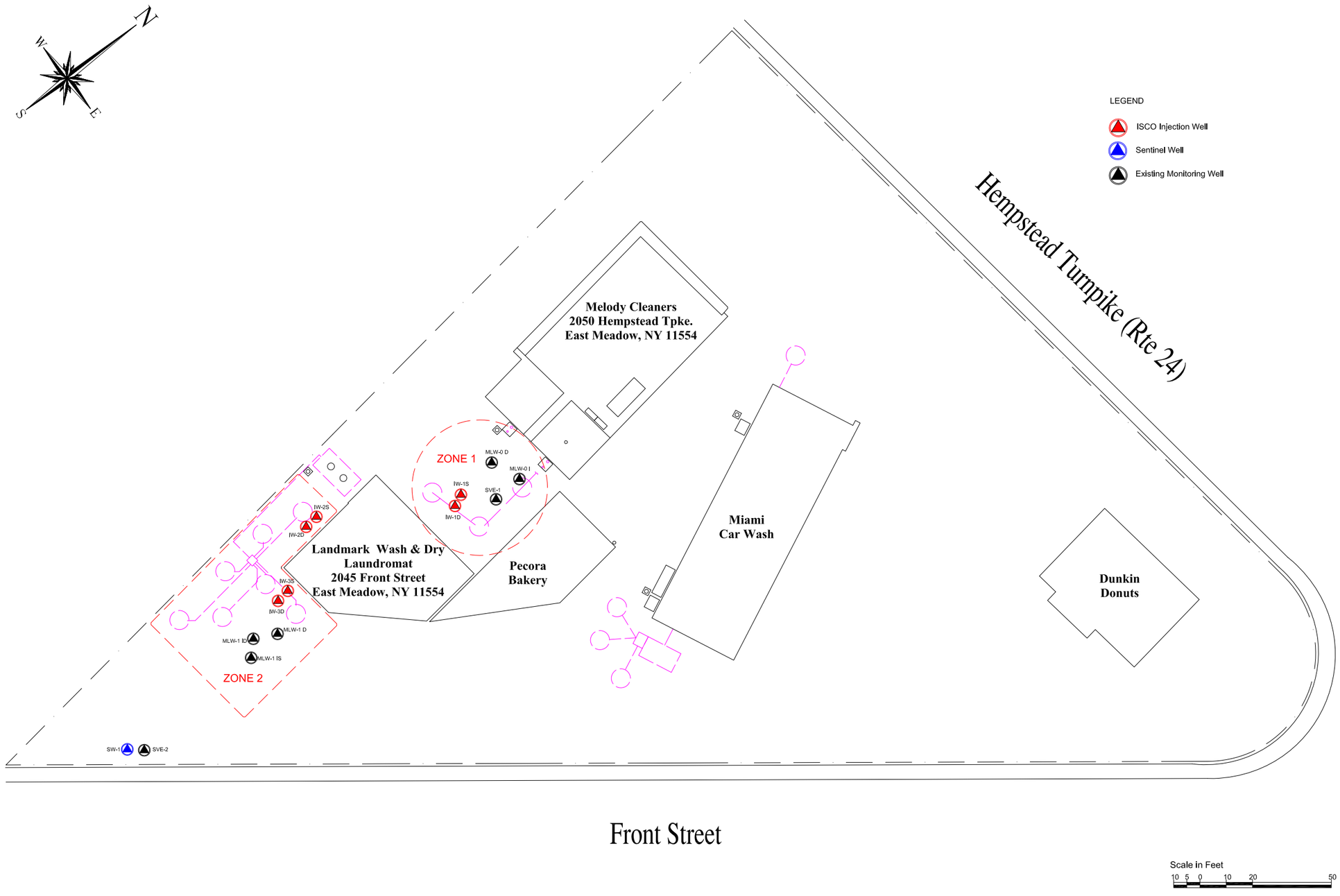
Sincerely,
Impact Environmental
Closures, Inc.

Kevin Kleaka, *Environmental Professional*
Vice President, Sr. Environmental Scientist



Michael Bluight, *Environmental Professional*
Project Manager

Enclosure



PROJECT # 04-455

Figure # 01

TITLE: ISCO Implementation Plan

Melody Cleaners Site
East Meadow, New York

DRAWN BY:	WF
CHECKED BY:	KK
DATE:	10-4-2011
SCALE:	1" = 40'

IMPACT ENVIRONMENTAL
170 KEYLAND COURT
BOHEMIA, NEW YORK 11716
TEL (631) 269-8800 FAX (631) 269-1599

Melody Cleaners Site
2050 Hempstead Turnpike, East Meadow, New York

Table 1
ISCO Baseline Sampling - June 2013 Groundwater Sampling Results
Volatile Organic Compounds USEPA Method 8260

Sample Source	**IW-2S**	**IW-2D**	**IW-3S**	**IW-3D**	**MLW-1IS**	**MLW-1ID**	**MLW-1D**	**SVE-2**	**SW-1**	NYSDEC Part 703 Class GA Groundwater Standards (ppb)
Sample Identification	IW-2S	IW-2D	IW-3S	IW-3D	MLW-1IS	MLW-1ID	MLW-1D	SVE-2	SW-1	
Laboratory Identification	E2678-14	E2678-15	E2678-16	E2678-17	E2679-04	E2679-02	E2679-01	E2678-20	E2678-18	
Dilution Factor	1 : 1	1 : 1	1 : 1	1 : 1	100 : 1	1 : 1	1 : 1	1 : 1	1 : 1	
Sampling Date	6/21/2013	6/21/2013	6/21/2013	6/21/2013	6/21/2013	6/21/2013	6/21/2013	6/21/2013	6/21/2013	
PARAMETER - µg/l										
Dichlorodifluoromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.0
Chloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	-
Vinyl Chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.0
Bromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.0
Chloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.0
Trichlorofluoromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.0
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.0
1,1-Dichloroethene	ND	ND	ND	ND	ND	**2.9**	ND	ND	ND	5.0
Acetone	**9.9**	**2.9** J	**17.5**	**13.8**	ND	**3.5** J	**3.0** J	**2.8** J	**14.5**	50.0
Carbon Disulfide	ND	ND	ND	ND	ND	ND	ND	ND	ND	60.0
Methyl tert-Butyl Ether (MTBE)	ND	ND	ND	ND	ND	ND	ND	ND	ND	10.0
Methyl Acetate	ND	ND	ND	ND	ND	ND	ND	ND	ND	-
Methylene Chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.0
trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.0
1,1-Dichloroethane	ND	ND	ND	ND	ND	**9.8**	ND	ND	ND	5.0
Cyclohexane	ND	ND	ND	ND	ND	ND	ND	ND	ND	-
2-Butanone (MEK)	**5.6**	**4.3** J	**5.9**	**6.4**	ND	**4.7** J	ND	ND	**5.9**	50.0
Carbon Tetrachloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.0
2,2-Dichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.0
cis-1,2-Dichloroethene	ND	ND	ND	ND	ND	**0.62** J	ND	ND	ND	5.0
Bromochloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.0
Chloroform	ND	ND	ND	**0.55** J	ND	ND	**0.96** J	**0.70** J	ND	7.0
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	**2.2**	ND	ND	ND	5.0
Methylcyclohexane	ND	ND	ND	ND	ND	ND	ND	ND	ND	-
Benzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.7
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.6
Trichloroethene	ND	**0.41** J	ND	ND	ND	**1.7**	ND	ND	ND	5.0
1,2-Dichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.0
Bromodichloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	50.0
4-Methyl-2-Pentanone (MIBK)	ND	ND	ND	ND	ND	ND	ND	ND	ND	50.0
Toluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.0
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.4
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.4
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.0
2-Hexanone (MBK)	ND	ND	ND	ND	ND	ND	ND	ND	ND	50.0
Dibromochloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.0
1,2-Dibromoethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	-
Tetrachloroethene	ND	ND	ND	**42.2**	**850**	**8.2**	**14.4**	**2.2**	ND	5.0

Melody Cleaners Site
2050 Hempstead Turnpike, East Meadow, New York

Table 1 (continued)
ISCO Baseline Sampling - June 2013 Groundwater Sampling Results
Volatile Organic Compounds USEPA Method 8260

Sample Source	**IW-2S**	**IW-2D**	**IW-3S**	**IW-3D**	**MLW-1IS**	**MLW-1ID**	**MLW-1D**	**SVE-2**	**SW-1**	NYSDEC Part 703 Class GA Groundwater Standards (ppb)
Sample Identification	IW-2S	IW-2D	IW-3S	IW-3D	MLW-1IS	MLW-1ID	MLW-1D	SVE-2	SW-1	
Laboratory Identification	E2678-14	E2678-15	E2678-16	E2678-17	E2679-04	E2679-02	E2679-01	E2678-20	E2678-18	
Dilution Factor	1 : 1	1 : 1	1 : 1	1 : 1	100 : 1	1 : 1	1 : 1	1 : 1	1 : 1	
Sampling Date	6/21/2013	6/21/2013	6/21/2013	6/21/2013	6/21/2013	6/21/2013	6/21/2013	6/21/2013	6/21/2013	
PARAMETER - µg/l										
Chlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.0
Ethyl Benzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.0
m&p-Xylenes	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.0
o-Xylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.0
Styrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.0
Bromoform	ND	ND	ND	ND	ND	ND	ND	ND	ND	50.0
Isopropylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.0
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.0
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.0
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.0
1,2-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.0
1,2-Dibromo-3-Chloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.04
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.0
1,2,3-Trichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.0
1,4-Dioxane	ND	ND	ND	ND	ND	ND	ND	ND	ND	-
Total VOCs	**15.50**	**7.61**	**23.40**	**21.35**	**850.00**	**33.62**	**18.36**	**5.70**	**20.40**	
Total TICs	**10.30** J	**8.80** J	**10.2** J	**0.00**	**0.00**	**10.3** J	**3.40** J	**0.00**	**9.90** J	

Notes: ND - Not Detected

J - Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than zero. The concentration given is an approximate value.

E - Value Exceeds Calibration Range

Melody Cleaners Site
2050 Hempstead Turnpike, East Meadow, New York

Table 2
ISCO Baseline Sampling - June 2013 Groundwater Sampling Results
TAL Total Metals USEPA Methods 6010B/7470A/7196A - Chemical Oxygen Demand USEPA Method 5220D

Sample Source	IW-3S	IW-3D	MLW-1IS	MLW-1ID	MLW-1D	SVE-2	SW-1	**NYSDEC Part 703 Groundwater Quality Standards (µg/l)**
Sample Identification	IW-3S	IW-3D	MLW-1IS	MLW-1ID	MLW-1D	SVE-2	SW-1	
Laboratory Identification	E2710-10	E2710-02	E2679-04	E2710-04	E2710-05	E2710-07	E2710-06	
Dilution Factor	1 : 1	1 : 1	1:01	1 : 1	1 : 1	1 : 1	1 : 1	
Sampling Date	6/26/2013	6/26/2013	6/26/2013	6/26/2013	6/26/2013	6/26/2013	6/26/2013	
Analyte (µg/l)								
Aluminum, Total	**9,370**	**68.1**	**324**	**329**	**250**	**9,010**	**1,210**	-
Antimony, Total	ND	ND	ND	ND	ND	ND	ND	3
Arsenic, Total	**7.65**	ND	ND	**3.91** J	ND	**20.9**	ND	25
Barium, Total	**211**	**95.4**	**17.4** J	**79**	**2.42** J	**31**	**10.5** J	1,000
Beryllium, Total	ND	ND	ND	ND	ND	ND	ND	3
Cadmium, Total	**145**	**2.96**	ND	ND	ND	**8.33**	ND	5
Calcium, Total	**14,100**	**15,500**	**10,200**	**72,400**	**4,950**	**18,400**	**22,000**	-
Chromium, Total (Cr^{3+})	**34.2**	**25.5**	**4.9**	**7.7**	**2.23** J	**43**	**5.0**	50
Chromium, Hexavalent (Cr^{6+})	ND	**20**	ND	**10**	ND	ND	ND	50
Cobalt, Total	**6.3** J	ND	ND	ND	ND	ND	ND	50
Copper, Total	**52.30**	ND	**4.94** J	**3.34** J	**3.07** J	**125**	**14.2**	200
Iron, Total	**15,600**	**20.7** J	**811**	**427**	**349**	**19,000**	**956**	300
Lead, Total	**32.4**	**1.9** J	**2.66** J	**2.26** J	**2.46** J	**12.8**	**5.62**	25
Magnesium, Total	**1,880**	**2,710**	**703**	**2,490**	**454** J	**2,600**	**466** J	35,000
Manganese, Total	**28,200**	**243**	**564**	**2,420**	**156**	**20,100**	**23.5**	300
Mercury, Total	ND	ND	ND	ND	ND	**0.115** J	ND	0.7
Nickel, Total	**17.4**	ND	ND	**2.9** J	ND	**4.52** J	ND	100
Potassium, Total	**4,220**	**5,560**	**2,420**	**7,230**	**780**	**12,200**	**4,280**	-
Selenium, Total	ND	ND	ND	**2.4** J	ND	ND	ND	10
Silver, Total	**3.25**	ND	ND	**1.5** J	ND	**0.9** J	ND	50
Sodium, Total	**37,100**	**46,600**	**9,490**	**27,800**	**4,140**	**74,100**	**4,230**	20,000
Thallium, Total	**29.3**	ND	ND	ND	ND	**16.3**	ND	0.5
Vanadium, Total	ND	ND	ND	**3.58** J	ND	ND	**6.29** J	14
Zinc, Total	**70.3**	**40.9**	**80.6**	**40.7**	**38.1**	**249**	**173**	2,000
Chemical Oxygen Demand (mg/l)	ND	**4.56** J	**3.58** J	**3.58** J	**7.52**	**25.2**	**9.48**	-

Melody Cleaners Site
2050 Hempstead Turnpike, East Meadow, NY
NYSDEC VCP No. 00347-1

Supplemental ISCO Work Plan

Attachment A
RemOx L Oxidant - Product Specifications

RemOx® S and L ISCO Reagents Estimation Spreadsheet

Input data into box with blue font

Site Name: Melody Cleaners - 2050 Hempstead Turnpike, East Meadow, New York
Date: 9/28/2013 (rev)

	Estimates	Units
Treatment Area Volume		
Injection Radius	17.5	ft
Cross Sectional Area	961.625	sq ft
Injection Thickness	80	ft
Total Volume	2849.26	cu yd
Soil Characteristics/Analysis		
Porosity	35	%
Total Plume Pore Volume	201417	gal
Avg Contaminant Conc	1	ppm
Mass of Contaminant	1.68	lb
PNOD	1	g/kg
Effective PNOD	10	%
Effective PNOD Calculated	0.1	
PNOD Oxidant Demand	846.23	lb
Avg Stoichiometric Demand (PCE)	0.96	lb/lb
Contaminant Oxidant Demand	1.61	lb
Theoretical Oxidant Demand	847.84	lb
Confidence Factor	1	
Calculated Oxidant Demand	847.8437	
Injection Volumes for RemOx S		
RemOx S Injection Concentration	4.0%	%
Total Volume of Injection Fluid	2,540	gal
Pore Volume Replaced	1.26	%

Amount of RemOx S ISCO Reagent Estimated **848 pounds**

Injection Volumes for RemOx L		
RemOx L Injection Concentration	4.0%	%
Calculated Specific Gravity	1.036649	g/ml
Total Volume of Injection Fluid	2,200.26	gal
Pore Volume Replaced	1.09	%

Amount of RemOx L ISCO Reagent Estimated **1,903 pounds**
167 gallons

Carus Corporation
Peru, IL U.S.A
Tel + 1 815 223 1500
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Web: www.caruscorporation.com
Email: salesmkt@caruscorporation.com
1 800 435 6856
(Toll free US Only)

REMOX® L ISCO

RemOx® L ISCO reagent has been specifically manufactured for environmental applications such as remediation of soils and associated groundwater. This product can be used to degrade a variety of contaminants including chlorinated solvents, polyaromatic hydrocarbons, phenolics, organo-pesticides, and substituted aromatics. RemOx L is shipped with a certificate of analysis (COA) to document assay and trace metals.

In situ chemical oxidation (ISCO) has emerged as a cost-effective and viable remediation technology for the treatment of contaminants in groundwater, soils, and sediments.

CHEMICAL/PHYSICAL DATA
Formula $NaMnO_4$
Formula Weight 141.93 g/mol
Appearance Dark Purple Solution
Specific Gravity 1.365-1.385 g/mL
Shelf Life 18 months
Freezing Point 5° F
Solubility in Water Miscible with water in all proportions.
Material will pass through a 10 micron filter.

APPLICATIONS
RemOx L is used for soil and groundwater remediation by *in situ* or *ex situ* chemical oxidation and as an active agent in subsurface reactive barriers for treatment of:

Chlorinated Ethenes - PCE, TCE, Vinyl Chloride, etc.
Phenolics, PCP, p-Cresol, 2,3 dichlorophenol, etc.
Polyaromatic Hydrocarbons, - Naphthalene, Phenanthrene, Benzo (a) Pyrene, etc.
TNT, RDX, HMX, etc.

HANDLING, STORAGE, AND INCOMPATIBILITY
Like any strong oxidizer RemOx L should be handled with care. Protective equipment during handling should include face shields and/or goggles, rubber or plastic gloves, and rubber or plastic apron. If clothing becomes spotted, wash off immediately; spontaneous ignition can occur with cloth or paper. In cases where significant exposure exists use the appropriate NIOSH-MSHA dust or mist respirator.

Store in accordance with NFPA (National Fire Protection Association) Code 430 requirements for Class II oxidizers. The product should be stored in a cool, dry area in closed containers. Concrete floors are preferred. Avoid wooden decks. Spillage should be collected and disposed of properly. To clean up spills and leaks follow the steps recommended in the MSDS.

Avoid contact with acids, peroxides, and all combustible organic or readily oxidizable materials including inorganic oxidizable materials and metal powders. With hydrochloric acid, chlorine gas is liberated. RemOx L is not combustible, but will support combustion. It may decompose if exposed to intense heat. Fires may be controlled and extinguished by using large quantities of water. Refer to the MSDS for more information.

SHIPPING
RemOx L is classified as an oxidizer for both domestic and international transportation. Liquid permanganate is shipped domestically as Freight Class 70.

Proper Shipping Name: Permanganates, inorganic, aqueous solution n.o.s. (contains sodium permanganate).

Hazard Class: 5.1
Identification Number: UN 3214
Label Requirements: Oxidizer, 5.1
Packaging Group: II
Packaging Requirements: 49 CFR Parts 171 to 180
Sections: 173.152, 173.202, 173.242
Quantity Limitations:
1 liter net for passenger aircraft or railcar:
5 liters net for cargo aircraft.

Vessel Stowage:
D-material must be stowed " on-deck" on a cargo vessel, but is prohibited on a passenger vessel. Other provisions: stow separately from ammonium compounds, hydrogen peroxide, peroxides, super-oxides, cyanide compounds, and powdered metal.

CORROSIVE PROPERTIES
RemOx L is compatible with many metals and synthetic materials. Natural rubbers and fibers are often incompatible. Solution pH and temperature are also important factors. The material selected for use with liquid permanganate must be compatible with any kind of acid or alkali being used.

In neutral and alkaline solutions, RemOx L is not corrosive to carbon steel and 316 stainless steel. However, chloride corrosion of metals may be accelerated when an oxidant such as liquid permanganate is present in solution. Plastics such as Teflon, polypropylene, and HDPE are also compatible with liquid permanganate.

Aluminum, zinc, copper, lead, and alloys containing these metals may be (slightly) affected by RemOx L. Actual corrosion or compatibility studies should be made under the conditions in which RemOx L will be used.

Melody Cleaners Site
2050 Hempstead Turnpike, East Meadow, NY
NYSDEC VCP No. 00347-1

Supplemental ISCO Work Plan

Attachment B
June 2013 Groundwater Sampling Event
Laboratory Analytical Data

CHEMTECH 284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

ANALYTICAL RESULTS SUMMARY

VOLATILE ORGANICS

PROJECT NAME : MELODY CLEANERS

IMPACT ENVIRONMENTAL

170 Keyland Court

Bohemia, NY - 11716

Phone No: 631-269-8800

ORDER ID : E2678

ATTENTION : Michael Bluight

ACCREDITED IN ACCORDANCE WITH nelac

DoD ELAP

Table Of Contents for E2678

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
FORM S-I

SAMPLE IDENTIFICATION AND ANALYTICAL REQUIREMENT SUMMARY

NYSDEC Sample ID/Code	Laboratory Sampl ID/Code	VOA GC/MS (Method #)	BNA GC/MS (Method #)	VOA GC (Method #)	Pest PCBs (Method #)	Metals (Method #)	Other (Method #)
MLW-6S	E2678-01	8260-Low					
MLW-7D	E2678-02	8260-Low					
MLW-7I	E2678-03	8260-Low					
MLW-8D	E2678-04	8260-Low					
MLW-8I	E2678-05	8260-Low					
MLW-8S	E2678-06	8260-Low					
MLW-9D	E2678-07	8260-Low					
MLW-9I	E2678-08	8260-Low					
DUP-2	E2678-09	8260-Low					
MLW-9S	E2678-10	8260-Low					
FIELDBLANK	E2678-11	8260-Low					
MLW-0I	E2678-12	8260-Low					
MLW-0D	E2678-13	8260-Low					
IW-2S	E2678-14	8260-Low					
IW-2D	E2678-15	8260-Low					
IW-3S	E2678-16	8260-Low					
IW-3D	E2678-17	8260-Low					
SW-1	E2678-18	8260-Low					
SVE-1	E2678-19	8260-Low					
SVE-2	E2678-20	8260-Low					

CHEMTECH

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

FORM S-IIb

SAMPLE PREPARATION AND ANALYSIS SUMMARY VOLATILE (VOA) ANALYSES

Laboratory Sample ID	Matrix	Date Collected	Date Rec'd at Lab	Date Extracted	Date Analyzed
E2678-01	Water	06/21/13	06/25/13		06/27/13
E2678-02	Water	06/21/13	06/25/13		06/27/13
E2678-03	Water	06/21/13	06/25/13		06/27/13
E2678-04	Water	06/21/13	06/25/13		06/27/13
E2678-05	Water	06/21/13	06/25/13		06/27/13
E2678-06	Water	06/21/13	06/25/13		06/27/13
E2678-07	Water	06/21/13	06/25/13		06/27/13
E2678-08	Water	06/21/13	06/25/13		06/27/13
E2678-09	Water	06/21/13	06/25/13		06/27/13
E2678-10	Water	06/21/13	06/25/13		06/27/13
E2678-11	Water	06/21/13	06/25/13		06/27/13
E2678-12	Water	06/21/13	06/25/13		06/27/13
E2678-13	Water	06/21/13	06/25/13		06/27/13
E2678-14	Water	06/21/13	06/25/13		06/27/13
E2678-15	Water	06/21/13	06/25/13		06/29/13
E2678-16	Water	06/21/13	06/25/13		06/27/13
E2678-17	Water	06/21/13	06/25/13		06/27/13
E2678-18	Water	06/21/13	06/25/13		06/27/13
E2678-19	Water	06/21/13	06/25/13		06/27/13
E2678-20	Water	06/21/13	06/25/13		06/27/13

*** Details For Test :** VOC-TCLVOA-10

CHEMTECH

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

FORM S-III

SAMPLE PREPARATION AND ANALYSIS SUMMARY MISCELLANEOUS ORGANIC ANALYSES

Laboratory Sample ID	Matrix	Analytical Protocol	Extraction Method	Auxiliary Cleanup	Dil/Conc Factor
E2678-01	Water	8260-Low	5030		
E2678-02	Water	8260-Low	5030		
E2678-03	Water	8260-Low	5030		
E2678-04	Water	8260-Low	5030		
E2678-05	Water	8260-Low	5030		
E2678-06	Water	8260-Low	5030		
E2678-07	Water	8260-Low	5030		
E2678-08	Water	8260-Low	5030		
E2678-09	Water	8260-Low	5030		
E2678-10	Water	8260-Low	5030		
E2678-11	Water	8260-Low	5030		
E2678-12	Water	8260-Low	5030		
E2678-13	Water	8260-Low	5030		
E2678-14	Water	8260-Low	5030		
E2678-15	Water	8260-Low	5030		
E2678-16	Water	8260-Low	5030		
E2678-17	Water	8260-Low	5030		
E2678-18	Water	8260-Low	5030		
E2678-19	Water	8260-Low	5030		
E2678-20	Water	8260-Low	5030		

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Cover Page

Order ID : E2678

Project ID : Melody Cleaners

Client : Impact Environmental

Lab Sample Number	Client Sample Number
E2678-01	MLW-6S
E2678-02	MLW-7D
E2678-03	MLW-7I
E2678-04	MLW-8D
E2678-05	MLW-8I
E2678-06	MLW-8S
E2678-07	MLW-9D
E2678-08	MLW-9I
E2678-09	DUP-2
E2678-10	MLW-9S
E2678-11	FIELDBLANK
E2678-12	MLW-0I
E2678-13	MLW-0D
E2678-14	IW-2S
E2678-15	IW-2D
E2678-16	IW-3S
E2678-17	IW-3D
E2678-18	SW-1
E2678-19	SVE-1
E2678-20	SVE-2

I certify that the data package is in compliance with the terms and conditions of the contract,both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Signature : _____ Date: 7/4/2013

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

CHEMTECH
284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

CASE NARRATIVE

Impact Environmental
Project Name: Melody Cleaners
Project # N/A
Chemtech Project # E2678
Test Name: VOC-TCLVOA-10

A. Number of Samples and Date of Receipt:
20 Water samples were received on 06/25/2013.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: VOC-TCLVOA-10. This data package contains results for VOC-TCLVOA-10.

C. Analytical Techniques:
The analysis performed on instrument MSVOA_N were done using GC column RXI-624SIL MS 30m 0.25mm 1.4 um. Cat#13868.The analysis of VOC-TCLVOA-10 was based on method 8260-Low.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Surrogate recoveries met the acceptable criteria.
The Internal Standards Areas met the acceptable requirements.
The Retention Times were acceptable for all samples.
The MS recoveries met the requirements for all compounds .
The MSD recoveries met the acceptable requirements .
The RPD recoveries met criteria .
The Blank Spike for {VN0626WBS02} with File ID: VN006733.D met requirements for all samples except for Bromochloromethane[140%].
The Blank analysis did not indicate the presence of lab contamination.
The Initial Calibration met the requirements .
The %RSD is greater than 15% in the Initial Calibration (Method 82N061713W.M) for Cyclohexane & Acetone these compounds are passing on Linear regression .
The %RSD is greater than 15% in the Initial Calibration (Method 82N062913W.M) for 1,2-Dibromo-3-chloropropane, Cyclohexane & Acetone these compounds are passing on Linear regression .
The Continuous Calibration File ID VN006731.D met the requirements except for Methyl tert-butyl Ether,Methyl Acetate,Bromochloromethane,Chloroform,1,1,1-Trichloroethane,1,1,2,2-Tetrachloroethane,1,2-Dibromo-3-Chloropropane,1,2-Dichloroethane-d4,Cyclohexane and 4-Methyl-2-Pentanone .The Continuous Calibration File ID VN006755.D met the requirements except for Carbon Disulfide but it was not detected in any samples.
The Tuning criteria met requirements.

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E. Additional Comments:
Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <15% for the Initial Calibration curve and use %D calculated based on Amount added and Calculated amount for all compounds using Linear Regression when the %RSD value for a compound is > 15% for the Initial Calibration curve for SW-846 analysis.

F. Manual Integration Comments:
Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature_____

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LAB CHRONICLE

OrderID:	E2678	**OrderDate:**	6/25/2013 11:27:00 AM
Client:	Impact Environmental	**Project:**	Melody Cleaners
Contact:	Michael Bluight	**Location:**	

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
E2678-01	**MLW-6S**	**Water**			**06/21/13**			**06/25/13**
			VOC-TCLVOA-10	8260-Low			06/27/13	
E2678-02	**MLW-7D**	**Water**			**06/21/13**			**06/25/13**
			VOC-TCLVOA-10	8260-Low			06/27/13	
E2678-03	**MLW-7I**	**Water**			**06/21/13**			**06/25/13**
			VOC-TCLVOA-10	8260-Low			06/27/13	
E2678-04	**MLW-8D**	**Water**			**06/21/13**			**06/25/13**
			VOC-TCLVOA-10	8260-Low			06/27/13	
E2678-05	**MLW-8I**	**Water**			**06/21/13**			**06/25/13**
			VOC-TCLVOA-10	8260-Low			06/27/13	
E2678-06	**MLW-8S**	**Water**			**06/21/13**			**06/25/13**
			VOC-TCLVOA-10	8260-Low			06/27/13	
E2678-07	**MLW-9D**	**Water**			**06/21/13**			**06/25/13**
			VOC-TCLVOA-10	8260-Low			06/27/13	
E2678-08	**MLW-9I**	**Water**			**06/21/13**			**06/25/13**
			VOC-TCLVOA-10	8260-Low			06/27/13	
E2678-09	**DUP-2**	**Water**			**06/21/13**			**06/25/13**
			VOC-TCLVOA-10	8260-Low			06/27/13	
E2678-10	**MLW-9S**	**Water**			**06/21/13**			**06/25/13**
			VOC-TCLVOA-10	8260-Low			06/27/13	
E2678-11	**FIELDBLANK**	**Water**			**06/21/13**			**06/25/13**
			VOC-TCLVOA-10	8260-Low			06/27/13	
E2678-12	**MLW-0I**	**Water**			**06/21/13**			**06/25/13**
			VOC-TCLVOA-10	8260-Low			06/27/13	

LAB CHRONICLE

E2678-13	**MLW-0D**	**Water**			**06/21/13**		**06/25/13**
			VOC-TCLVOA-10	8260-Low		06/27/13	
E2678-14	**IW-2S**	**Water**			**06/21/13**		**06/25/13**
			VOC-TCLVOA-10	8260-Low		06/27/13	
E2678-15	**IW-2D**	**Water**			**06/21/13**		**06/25/13**
			VOC-TCLVOA-10	8260-Low		06/29/13	
E2678-16	**IW-3S**	**Water**			**06/21/13**		**06/25/13**
			VOC-TCLVOA-10	8260-Low		06/27/13	
E2678-17	**IW-3D**	**Water**			**06/21/13**		**06/25/13**
			VOC-TCLVOA-10	8260-Low		06/27/13	
E2678-18	**SW-1**	**Water**			**06/21/13**		**06/25/13**
			VOC-TCLVOA-10	8260-Low		06/27/13	
E2678-19	**SVE-1**	**Water**			**06/21/13**		**06/25/13**
			VOC-TCLVOA-10	8260-Low		06/27/13	
E2678-20	**SVE-2**	**Water**			**06/21/13**		**06/25/13**
			VOC-TCLVOA-10	8260-Low		06/27/13	

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Hit Summary Sheet
SW-846

SDG No.: E2678

Client: Impact Environmental

Sample ID	Client ID		Parameter		Concentration	C	MDL	LOD	RDL	Units
Client ID:	**DUP-2**									
E2678-09	DUP-2	Water	Acetone		4.30	J	0.5	2.5	5	ug/L
E2678-09	DUP-2	Water	1,1-Dichloroethane		3.10		0.36	0.5	1	ug/L
E2678-09	DUP-2	Water	cis-1,2-Dichloroethene		37.90		0.35	0.5	1	ug/L
E2678-09	DUP-2	Water	Trichloroethene		28.10		0.28	0.5	1	ug/L
E2678-09	DUP-2	Water	Tetrachloroethene		89.20		0.27	0.5	1	ug/L
			Total Voc :		162.6					
			Total Concentration:		162.6					
Client ID:	**IW-2D**									
E2678-15	IW-2D	Water	Acetone		2.90	J	0.5	2.5	5	ug/L
E2678-15	IW-2D	Water	2-Butanone		4.30	J	1.3	2.5	5	ug/L
E2678-15	IW-2D	Water	Trichloroethene		0.41	J	0.28	0.5	1	ug/L
			Total Voc :		7.61					
E2678-15	IW-2D	Water	Tetrahydrofuran	*	8.80	J	2.5		5	ug/L
			Total Tics :		8.8					
			Total Concentration:		16.41					
Client ID:	**IW-2S**									
E2678-14	IW-2S	Water	Acetone		9.90		0.5	2.5	5	ug/L
E2678-14	IW-2S	Water	2-Butanone		5.60		1.3	2.5	5	ug/L
			Total Voc :		15.5					
E2678-14	IW-2S	Water	Tetrahydrofuran	*	10.30	J	2.5		5	ug/L
			Total Tics :		10.3					
			Total Concentration:		25.8					
Client ID:	**IW-3D**									
E2678-17	IW-3D	Water	Acetone		13.80		0.5	2.5	5	ug/L
E2678-17	IW-3D	Water	2-Butanone		6.40		1.3	2.5	5	ug/L
E2678-17	IW-3D	Water	Chloroform		0.55	J	0.34	0.5	1	ug/L
E2678-17	IW-3D	Water	Tetrachloroethene		42.20		0.27	0.5	1	ug/L
			Total Voc :		62.95					
E2678-17	IW-3D	Water	Tetrahydrofuran	*	8.90	J	2.5		5	ug/L
			Total Tics :		8.9					
			Total Concentration:		71.85					
Client ID:	**IW-3S**									
E2678-16	IW-3S	Water	Acetone		17.50		0.5	2.5	5	ug/L
E2678-16	IW-3S	Water	2-Butanone		5.90		1.3	2.5	5	ug/L
			Total Voc :		23.4					
E2678-16	IW-3S	Water	Tetrahydrofuran	*	10.20	J	2.5		5	ug/L
			Total Tics :		10.2					
			Total Concentration:		33.6					
Client ID:	**MLW-0D**									

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Hit Summary Sheet
SW-846

SDG No.: E2678

Client: Impact Environmental

Sample ID	Client ID		Parameter		Concentration	C	MDL	LOD	RDL	Units
E2678-13	MLW-0D	Water	Acetone		14.30		0.5	2.5	5	ug/L
E2678-13	MLW-0D	Water	2-Butanone		6.60		1.3	2.5	5	ug/L
E2678-13	MLW-0D	Water	Trichloroethene		0.54	J	0.28	0.5	1	ug/L
			Total Voc :		21.44					
E2678-13	MLW-0D	Water	Tetrahydrofuran	*	10.70	J	2.5		5	ug/L
			Total Tics :		10.7					
			Total Concentration:		32.14					
Client ID:	**MLW-0I**									
E2678-12	MLW-0I	Water	Acetone		12.50		0.5	2.5	5	ug/L
E2678-12	MLW-0I	Water	2-Butanone		5.80		1.3	2.5	5	ug/L
E2678-12	MLW-0I	Water	cis-1,2-Dichloroethene		0.54	J	0.35	0.5	1	ug/L
E2678-12	MLW-0I	Water	Trichloroethene		0.51	J	0.28	0.5	1	ug/L
			Total Voc :		19.35					
E2678-12	MLW-0I	Water	Tetrahydrofuran	*	10.50	J	2.5		5	ug/L
			Total Tics :		10.5					
			Total Concentration:		29.85					
Client ID:	**MLW-6S**									
E2678-01	MLW-6S	Water	Acetone		3.60	J	0.5	2.5	5	ug/L
E2678-01	MLW-6S	Water	2-Butanone		6.50		1.3	2.5	5	ug/L
			Total Voc :		10.1					
E2678-01	MLW-6S	Water	Tetrahydrofuran	*	13.50	J	2.5		5	ug/L
			Total Tics :		13.5					
			Total Concentration:		23.6					
Client ID:	**MLW-7D**									
E2678-02	MLW-7D	Water	1,1-Dichloroethene		0.83	J	0.47	0.5	1	ug/L
E2678-02	MLW-7D	Water	Acetone		4.00	J	0.5	2.5	5	ug/L
E2678-02	MLW-7D	Water	cis-1,2-Dichloroethene		9.80		0.35	0.5	1	ug/L
E2678-02	MLW-7D	Water	Trichloroethene		7.40		0.28	0.5	1	ug/L
E2678-02	MLW-7D	Water	Tetrachloroethene		5.10		0.27	0.5	1	ug/L
			Total Voc :		27.13					
			Total Concentration:		27.13					
Client ID:	**MLW-7I**									
E2678-03	MLW-7I	Water	1,1-Dichloroethene		0.47	J	0.47	0.5	1	ug/L
E2678-03	MLW-7I	Water	Acetone		1.50	J	0.5	2.5	5	ug/L
E2678-03	MLW-7I	Water	1,1-Dichloroethane		1.30		0.36	0.5	1	ug/L
E2678-03	MLW-7I	Water	cis-1,2-Dichloroethene		17.00		0.35	0.5	1	ug/L
E2678-03	MLW-7I	Water	Trichloroethene		5.40		0.28	0.5	1	ug/L
E2678-03	MLW-7I	Water	Tetrachloroethene		7.50		0.27	0.5	1	ug/L
			Total Voc :		33.17					

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Hit Summary Sheet
SW-846

SDG No.: E2678

Client: Impact Environmental

Sample ID	Client ID		Parameter		Concentration	C	MDL	LOD	RDL	Units
E2678-03	MLW-7I	Water	Ethyl Acetate	*	3.20	J	0.2		1	ug/L
			Total Tics :		3.2					
			Total Concentration:		36.37					
Client ID:	**MLW-8D**									
E2678-04	MLW-8D	Water	Acetone		3.80	J	0.5	2.5	5	ug/L
E2678-04	MLW-8D	Water	cis-1,2-Dichloroethene		95.70		0.35	0.5	1	ug/L
E2678-04	MLW-8D	Water	Trichloroethene		41.00		0.28	0.5	1	ug/L
E2678-04	MLW-8D	Water	Tetrachloroethene		110.00		0.27	0.5	1	ug/L
			Total Voc :		250.5					
			Total Concentration:		250.5					
Client ID:	**MLW-8I**									
E2678-05	MLW-8I	Water	Acetone		3.90	J	0.5	2.5	5	ug/L
E2678-05	MLW-8I	Water	cis-1,2-Dichloroethene		12.90		0.35	0.5	1	ug/L
E2678-05	MLW-8I	Water	Trichloroethene		3.60		0.28	0.5	1	ug/L
E2678-05	MLW-8I	Water	Tetrachloroethene		10.20		0.27	0.5	1	ug/L
			Total Voc :		30.6					
			Total Concentration:		30.6					
Client ID:	**MLW-8S**									
E2678-06	MLW-8S	Water	Acetone		7.50		0.5	2.5	5	ug/L
E2678-06	MLW-8S	Water	cis-1,2-Dichloroethene		0.84	J	0.35	0.5	1	ug/L
E2678-06	MLW-8S	Water	Chloroform		0.64	J	0.34	0.5	1	ug/L
E2678-06	MLW-8S	Water	Trichloroethene		0.41	J	0.28	0.5	1	ug/L
E2678-06	MLW-8S	Water	Tetrachloroethene		0.46	J	0.27	0.5	1	ug/L
			Total Voc :		9.85					
			Total Concentration:		9.85					
Client ID:	**MLW-9D**									
E2678-07	MLW-9D	Water	Acetone		43.90		0.5	2.5	5	ug/L
E2678-07	MLW-9D	Water	2-Butanone		15.50		1.3	2.5	5	ug/L
			Total Voc :		59.4					
E2678-07	MLW-9D	Water	Tetrahydrofuran	*	24.90	J	2.5		5	ug/L
			Total Tics :		24.9					
			Total Concentration:		84.3					
Client ID:	**MLW-9I**									
E2678-08	MLW-9I	Water	1,1-Dichloroethene		0.96	J	0.47	0.5	1	ug/L
E2678-08	MLW-9I	Water	Acetone		3.80	J	0.5	2.5	5	ug/L
E2678-08	MLW-9I	Water	1,1-Dichloroethane		3.30		0.36	0.5	1	ug/L
E2678-08	MLW-9I	Water	cis-1,2-Dichloroethene		37.90		0.35	0.5	1	ug/L
E2678-08	MLW-9I	Water	Trichloroethene		26.20		0.28	0.5	1	ug/L
E2678-08	MLW-9I	Water	Tetrachloroethene		90.60		0.27	0.5	1	ug/L
			Total Voc :		162.76					

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Hit Summary Sheet
SW-846

SDG No.: E2678

Client: Impact Environmental

Sample ID	Client ID		Parameter		Concentration	C	MDL	LOD	RDL	Units
			Total Concentration:		162.76					
Client ID:	**MLW-9S**									
E2678-10	MLW-9S	Water	Acetone		7.50		0.5	2.5	5	ug/L
			Total Voc :		7.5					
			Total Concentration:		7.5					
Client ID:	**SVE-1**									
E2678-19	SVE-1	Water	Acetone		12.10		0.5	2.5	5	ug/L
E2678-19	SVE-1	Water	2-Butanone		4.80	J	1.3	2.5	5	ug/L
			Total Voc :		16.9					
E2678-19	SVE-1	Water	Tetrahydrofuran	*	10.30	J	2.5		5	ug/L
			Total Tics :		10.3					
			Total Concentration:		27.2					
Client ID:	**SVE-2**									
E2678-20	SVE-2	Water	Acetone		2.80	J	0.5	2.5	5	ug/L
E2678-20	SVE-2	Water	Chloroform		0.70	J	0.34	0.5	1	ug/L
E2678-20	SVE-2	Water	Tetrachloroethene		2.20		0.27	0.5	1	ug/L
			Total Voc :		5.7					
			Total Concentration:		5.7					
Client ID:	**SW-1**									
E2678-18	SW-1	Water	Acetone		14.50		0.5	2.5	5	ug/L
E2678-18	SW-1	Water	2-Butanone		5.90		1.3	2.5	5	ug/L
			Total Voc :		20.4					
E2678-18	SW-1	Water	Tetrahydrofuran	*	9.90	J	2.5		5	ug/L
			Total Tics :		9.9					
			Total Concentration:		30.3					

SAMPLE DATA

Report of Analysis

Client:	Impact Environmental	Date Collected:	06/21/13
Project:	Melody Cleaners	Date Received:	06/25/13
Client Sample ID:	MLW-6S	SDG No.:	E2678
Lab Sample ID:	E2678-01	Matrix:	Water
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN006736.D	1		06/27/13	VN062613

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.5	U	0.2	0.5	1	ug/L
74-87-3	Chloromethane	0.5	U	0.2	0.5	1	ug/L
75-01-4	Vinyl Chloride	0.5	U	0.34	0.5	1	ug/L
74-83-9	Bromomethane	0.5	U	0.2	0.5	1	ug/L
75-00-3	Chloroethane	0.5	U	0.2	0.5	1	ug/L
75-69-4	Trichlorofluoromethane	0.5	U	0.35	0.5	1	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.5	U	0.45	0.5	1	ug/L
75-35-4	1,1-Dichloroethene	0.5	U	0.47	0.5	1	ug/L
67-64-1	Acetone	3.6	J	0.5	2.5	5	ug/L
75-15-0	Carbon Disulfide	0.5	U	0.2	0.5	1	ug/L
1634-04-4	Methyl tert-butyl Ether	0.5	U	0.35	0.5	1	ug/L
79-20-9	Methyl Acetate	0.5	U	0.2	0.5	1	ug/L
75-09-2	Methylene Chloride	0.5	U	0.41	0.5	1	ug/L
156-60-5	trans-1,2-Dichloroethene	0.5	U	0.41	0.5	1	ug/L
75-34-3	1,1-Dichloroethane	0.5	U	0.36	0.5	1	ug/L
110-82-7	Cyclohexane	0.5	U	0.2	0.5	1	ug/L
78-93-3	2-Butanone	6.5		1.3	2.5	5	ug/L
56-23-5	Carbon Tetrachloride	0.5	U	0.2	0.5	1	ug/L
156-59-2	cis-1,2-Dichloroethene	0.5	U	0.35	0.5	1	ug/L
74-97-5	Bromochloromethane	0.5	UQ	0.2	0.5	1	ug/L
67-66-3	Chloroform	0.5	U	0.34	0.5	1	ug/L
71-55-6	1,1,1-Trichloroethane	0.5	U	0.4	0.5	1	ug/L
108-87-2	Methylcyclohexane	0.5	U	0.2	0.5	1	ug/L
71-43-2	Benzene	0.5	U	0.32	0.5	1	ug/L
107-06-2	1,2-Dichloroethane	0.5	U	0.48	0.5	1	ug/L
79-01-6	Trichloroethene	0.5	U	0.28	0.5	1	ug/L
78-87-5	1,2-Dichloropropane	0.5	U	0.46	0.5	1	ug/L
75-27-4	Bromodichloromethane	0.5	U	0.36	0.5	1	ug/L
108-10-1	4-Methyl-2-Pentanone	2.5	U	2.1	2.5	5	ug/L
108-88-3	Toluene	0.5	U	0.37	0.5	1	ug/L
10061-02-6	t-1,3-Dichloropropene	0.5	U	0.29	0.5	1	ug/L

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Report of Analysis

Client:	Impact Environmental	Date Collected:	06/21/13
Project:	Melody Cleaners	Date Received:	06/25/13
Client Sample ID:	MLW-6S	SDG No.:	E2678
Lab Sample ID:	E2678-01	Matrix:	Water
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN006736.D	1		06/27/13	VN062613

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-01-5	cis-1,3-Dichloropropene	0.5	U	0.31	0.5	1	ug/L
79-00-5	1,1,2-Trichloroethane	0.5	U	0.38	0.5	1	ug/L
591-78-6	2-Hexanone	2.5	U	1.9	2.5	5	ug/L
124-48-1	Dibromochloromethane	0.5	U	0.2	0.5	1	ug/L
106-93-4	1,2-Dibromoethane	0.5	U	0.41	0.5	1	ug/L
127-18-4	Tetrachloroethene	0.5	U	0.27	0.5	1	ug/L
108-90-7	Chlorobenzene	0.5	U	0.49	0.5	1	ug/L
100-41-4	Ethyl Benzene	0.5	U	0.2	0.5	1	ug/L
179601-23-1	m/p-Xylenes	1	U	0.95	1	2	ug/L
95-47-6	o-Xylene	0.5	U	0.43	0.5	1	ug/L
100-42-5	Styrene	0.5	U	0.36	0.5	1	ug/L
75-25-2	Bromoform	0.5	U	0.47	0.5	1	ug/L
98-82-8	Isopropylbenzene	0.5	U	0.45	0.5	1	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.5	U	0.31	0.5	1	ug/L
541-73-1	1,3-Dichlorobenzene	0.5	U	0.43	0.5	1	ug/L
106-46-7	1,4-Dichlorobenzene	0.5	U	0.32	0.5	1	ug/L
95-50-1	1,2-Dichlorobenzene	0.5	U	0.45	0.5	1	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.5	U	0.46	0.5	1	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.5	U	0.2	0.5	1	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.5	U	0.2	0.5	1	ug/L
123-91-1	1,4-Dioxane	100	U	100	100	100	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	56.4		61 - 141		113%	SPK: 50
1868-53-7	Dibromofluoromethane	46.3		69 - 133		93%	SPK: 50
2037-26-5	Toluene-d8	48.5		65 - 126		97%	SPK: 50
460-00-4	4-Bromofluorobenzene	46		58 - 135		92%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	338787	7.87				
540-36-3	1,4-Difluorobenzene	581752	8.79				
3114-55-4	Chlorobenzene-d5	529493	11.61				
3855-82-1	1,4-Dichlorobenzene-d4	234348	13.56				
TENTATIVE IDENTIFIED COMPOUNDS							

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Report of Analysis

Client:	Impact Environmental	Date Collected:	06/21/13
Project:	Melody Cleaners	Date Received:	06/25/13
Client Sample ID:	MLW-6S	SDG No.:	E2678
Lab Sample ID:	E2678-01	Matrix:	Water
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN006736.D	1		06/27/13	VN062613

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
109-99-9	Tetrahydrofuran	13.5	J			7.46	ug/L

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

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Report of Analysis

Client:	Impact Environmental	Date Collected:	06/21/13
Project:	Melody Cleaners	Date Received:	06/25/13
Client Sample ID:	MLW-7D	SDG No.:	E2678
Lab Sample ID:	E2678-02	Matrix:	Water
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN006737.D	1		06/27/13	VN062613

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.5	U	0.2	0.5	1	ug/L
74-87-3	Chloromethane	0.5	U	0.2	0.5	1	ug/L
75-01-4	Vinyl Chloride	0.5	U	0.34	0.5	1	ug/L
74-83-9	Bromomethane	0.5	U	0.2	0.5	1	ug/L
75-00-3	Chloroethane	0.5	U	0.2	0.5	1	ug/L
75-69-4	Trichlorofluoromethane	0.5	U	0.35	0.5	1	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.5	U	0.45	0.5	1	ug/L
75-35-4	1,1-Dichloroethene	0.83	J	0.47	0.5	1	ug/L
67-64-1	Acetone	4	J	0.5	2.5	5	ug/L
75-15-0	Carbon Disulfide	0.5	U	0.2	0.5	1	ug/L
1634-04-4	Methyl tert-butyl Ether	0.5	U	0.35	0.5	1	ug/L
79-20-9	Methyl Acetate	0.5	U	0.2	0.5	1	ug/L
75-09-2	Methylene Chloride	0.5	U	0.41	0.5	1	ug/L
156-60-5	trans-1,2-Dichloroethene	0.5	U	0.41	0.5	1	ug/L
75-34-3	1,1-Dichloroethane	0.5	U	0.36	0.5	1	ug/L
110-82-7	Cyclohexane	0.5	U	0.2	0.5	1	ug/L
78-93-3	2-Butanone	2.5	U	1.3	2.5	5	ug/L
56-23-5	Carbon Tetrachloride	0.5	U	0.2	0.5	1	ug/L
156-59-2	cis-1,2-Dichloroethene	9.8		0.35	0.5	1	ug/L
74-97-5	Bromochloromethane	0.5	UQ	0.2	0.5	1	ug/L
67-66-3	Chloroform	0.5	U	0.34	0.5	1	ug/L
71-55-6	1,1,1-Trichloroethane	0.5	U	0.4	0.5	1	ug/L
108-87-2	Methylcyclohexane	0.5	U	0.2	0.5	1	ug/L
71-43-2	Benzene	0.5	U	0.32	0.5	1	ug/L
107-06-2	1,2-Dichloroethane	0.5	U	0.48	0.5	1	ug/L
79-01-6	Trichloroethene	7.4		0.28	0.5	1	ug/L
78-87-5	1,2-Dichloropropane	0.5	U	0.46	0.5	1	ug/L
75-27-4	Bromodichloromethane	0.5	U	0.36	0.5	1	ug/L
108-10-1	4-Methyl-2-Pentanone	2.5	U	2.1	2.5	5	ug/L
108-88-3	Toluene	0.5	U	0.37	0.5	1	ug/L
10061-02-6	t-1,3-Dichloropropene	0.5	U	0.29	0.5	1	ug/L

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Report of Analysis

Client:	Impact Environmental	Date Collected:	06/21/13
Project:	Melody Cleaners	Date Received:	06/25/13
Client Sample ID:	MLW-7D	SDG No.:	E2678
Lab Sample ID:	E2678-02	Matrix:	Water
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN006737.D	1		06/27/13	VN062613

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-01-5	cis-1,3-Dichloropropene	0.5	U	0.31	0.5	1	ug/L
79-00-5	1,1,2-Trichloroethane	0.5	U	0.38	0.5	1	ug/L
591-78-6	2-Hexanone	2.5	U	1.9	2.5	5	ug/L
124-48-1	Dibromochloromethane	0.5	U	0.2	0.5	1	ug/L
106-93-4	1,2-Dibromoethane	0.5	U	0.41	0.5	1	ug/L
127-18-4	Tetrachloroethene	5.1		0.27	0.5	1	ug/L
108-90-7	Chlorobenzene	0.5	U	0.49	0.5	1	ug/L
100-41-4	Ethyl Benzene	0.5	U	0.2	0.5	1	ug/L
179601-23-1	m/p-Xylenes	1	U	0.95	1	2	ug/L
95-47-6	o-Xylene	0.5	U	0.43	0.5	1	ug/L
100-42-5	Styrene	0.5	U	0.36	0.5	1	ug/L
75-25-2	Bromoform	0.5	U	0.47	0.5	1	ug/L
98-82-8	Isopropylbenzene	0.5	U	0.45	0.5	1	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.5	U	0.31	0.5	1	ug/L
541-73-1	1,3-Dichlorobenzene	0.5	U	0.43	0.5	1	ug/L
106-46-7	1,4-Dichlorobenzene	0.5	U	0.32	0.5	1	ug/L
95-50-1	1,2-Dichlorobenzene	0.5	U	0.45	0.5	1	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.5	U	0.46	0.5	1	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.5	U	0.2	0.5	1	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.5	U	0.2	0.5	1	ug/L
123-91-1	1,4-Dioxane	100	U	100	100	100	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	56.7		61 - 141		113%	SPK: 50
1868-53-7	Dibromofluoromethane	48.3		69 - 133		97%	SPK: 50
2037-26-5	Toluene-d8	48.6		65 - 126		97%	SPK: 50
460-00-4	4-Bromofluorobenzene	46.1		58 - 135		92%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	349716	7.873				
540-36-3	1,4-Difluorobenzene	595516	8.79				
3114-55-4	Chlorobenzene-d5	545183	11.613				
3855-82-1	1,4-Dichlorobenzene-d4	241404	13.561				

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Report of Analysis

Client:	Impact Environmental	Date Collected:	06/21/13
Project:	Melody Cleaners	Date Received:	06/25/13
Client Sample ID:	MLW-7D	SDG No.:	E2678
Lab Sample ID:	E2678-02	Matrix:	Water
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN006737.D	1		06/27/13	VN062613

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

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Report of Analysis

Client:	Impact Environmental	Date Collected:	06/21/13
Project:	Melody Cleaners	Date Received:	06/25/13
Client Sample ID:	MLW-7I	SDG No.:	E2678
Lab Sample ID:	E2678-03	Matrix:	Water
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN006738.D	1		06/27/13	VN062613

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.5	U	0.2	0.5	1	ug/L
74-87-3	Chloromethane	0.5	U	0.2	0.5	1	ug/L
75-01-4	Vinyl Chloride	0.5	U	0.34	0.5	1	ug/L
74-83-9	Bromomethane	0.5	U	0.2	0.5	1	ug/L
75-00-3	Chloroethane	0.5	U	0.2	0.5	1	ug/L
75-69-4	Trichlorofluoromethane	0.5	U	0.35	0.5	1	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.5	U	0.45	0.5	1	ug/L
75-35-4	1,1-Dichloroethene	0.47	J	0.47	0.5	1	ug/L
67-64-1	Acetone	1.5	J	0.5	2.5	5	ug/L
75-15-0	Carbon Disulfide	0.5	U	0.2	0.5	1	ug/L
1634-04-4	Methyl tert-butyl Ether	0.5	U	0.35	0.5	1	ug/L
79-20-9	Methyl Acetate	0.5	U	0.2	0.5	1	ug/L
75-09-2	Methylene Chloride	0.5	U	0.41	0.5	1	ug/L
156-60-5	trans-1,2-Dichloroethene	0.5	U	0.41	0.5	1	ug/L
75-34-3	1,1-Dichloroethane	1.3		0.36	0.5	1	ug/L
110-82-7	Cyclohexane	0.5	U	0.2	0.5	1	ug/L
78-93-3	2-Butanone	2.5	U	1.3	2.5	5	ug/L
56-23-5	Carbon Tetrachloride	0.5	U	0.2	0.5	1	ug/L
156-59-2	cis-1,2-Dichloroethene	17		0.35	0.5	1	ug/L
74-97-5	Bromochloromethane	0.5	UQ	0.2	0.5	1	ug/L
67-66-3	Chloroform	0.5	U	0.34	0.5	1	ug/L
71-55-6	1,1,1-Trichloroethane	0.5	U	0.4	0.5	1	ug/L
108-87-2	Methylcyclohexane	0.5	U	0.2	0.5	1	ug/L
71-43-2	Benzene	0.5	U	0.32	0.5	1	ug/L
107-06-2	1,2-Dichloroethane	0.5	U	0.48	0.5	1	ug/L
79-01-6	Trichloroethene	5.4		0.28	0.5	1	ug/L
78-87-5	1,2-Dichloropropane	0.5	U	0.46	0.5	1	ug/L
75-27-4	Bromodichloromethane	0.5	U	0.36	0.5	1	ug/L
108-10-1	4-Methyl-2-Pentanone	2.5	U	2.1	2.5	5	ug/L
108-88-3	Toluene	0.5	U	0.37	0.5	1	ug/L
10061-02-6	t-1,3-Dichloropropene	0.5	U	0.29	0.5	1	ug/L

Report of Analysis

Client:	Impact Environmental	Date Collected:	06/21/13
Project:	Melody Cleaners	Date Received:	06/25/13
Client Sample ID:	MLW-7I	SDG No.:	E2678
Lab Sample ID:	E2678-03	Matrix:	Water
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN006738.D	1		06/27/13	VN062613

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-01-5	cis-1,3-Dichloropropene	0.5	U	0.31	0.5	1	ug/L
79-00-5	1,1,2-Trichloroethane	0.5	U	0.38	0.5	1	ug/L
591-78-6	2-Hexanone	2.5	U	1.9	2.5	5	ug/L
124-48-1	Dibromochloromethane	0.5	U	0.2	0.5	1	ug/L
106-93-4	1,2-Dibromoethane	0.5	U	0.41	0.5	1	ug/L
127-18-4	Tetrachloroethene	7.5		0.27	0.5	1	ug/L
108-90-7	Chlorobenzene	0.5	U	0.49	0.5	1	ug/L
100-41-4	Ethyl Benzene	0.5	U	0.2	0.5	1	ug/L
179601-23-1	m/p-Xylenes	1	U	0.95	1	2	ug/L
95-47-6	o-Xylene	0.5	U	0.43	0.5	1	ug/L
100-42-5	Styrene	0.5	U	0.36	0.5	1	ug/L
75-25-2	Bromoform	0.5	U	0.47	0.5	1	ug/L
98-82-8	Isopropylbenzene	0.5	U	0.45	0.5	1	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.5	U	0.31	0.5	1	ug/L
541-73-1	1,3-Dichlorobenzene	0.5	U	0.43	0.5	1	ug/L
106-46-7	1,4-Dichlorobenzene	0.5	U	0.32	0.5	1	ug/L
95-50-1	1,2-Dichlorobenzene	0.5	U	0.45	0.5	1	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.5	U	0.46	0.5	1	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.5	U	0.2	0.5	1	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.5	U	0.2	0.5	1	ug/L
123-91-1	1,4-Dioxane	100	U	100	100	100	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	57.6		61 - 141		115%	SPK: 50
1868-53-7	Dibromofluoromethane	47.4		69 - 133		95%	SPK: 50
2037-26-5	Toluene-d8	48.2		65 - 126		96%	SPK: 50
460-00-4	4-Bromofluorobenzene	45.8		58 - 135		92%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	344933	7.87				
540-36-3	1,4-Difluorobenzene	587412	8.79				
3114-55-4	Chlorobenzene-d5	546062	11.61				
3855-82-1	1,4-Dichlorobenzene-d4	241069	13.56				
TENTATIVE IDENTIFIED COMPOUNDS							

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Report of Analysis

Client:	Impact Environmental	Date Collected:	06/21/13
Project:	Melody Cleaners	Date Received:	06/25/13
Client Sample ID:	MLW-7I	SDG No.:	E2678
Lab Sample ID:	E2678-03	Matrix:	Water
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN006738.D	1		06/27/13	VN062613

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
141-78-6	Ethyl Acetate	3.2	J			7.17	ug/L

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

Report of Analysis

Client:	Impact Environmental	Date Collected:	06/21/13
Project:	Melody Cleaners	Date Received:	06/25/13
Client Sample ID:	MLW-8D	SDG No.:	E2678
Lab Sample ID:	E2678-04	Matrix:	Water
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN006749.D	1		06/27/13	VN062613

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.5	U	0.2	0.5	1	ug/L
74-87-3	Chloromethane	0.5	U	0.2	0.5	1	ug/L
75-01-4	Vinyl Chloride	0.5	U	0.34	0.5	1	ug/L
74-83-9	Bromomethane	0.5	U	0.2	0.5	1	ug/L
75-00-3	Chloroethane	0.5	U	0.2	0.5	1	ug/L
75-69-4	Trichlorofluoromethane	0.5	U	0.35	0.5	1	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.5	U	0.45	0.5	1	ug/L
75-35-4	1,1-Dichloroethene	0.5	U	0.47	0.5	1	ug/L
67-64-1	Acetone	3.8	J	0.5	2.5	5	ug/L
75-15-0	Carbon Disulfide	0.5	U	0.2	0.5	1	ug/L
1634-04-4	Methyl tert-butyl Ether	0.5	U	0.35	0.5	1	ug/L
79-20-9	Methyl Acetate	0.5	U	0.2	0.5	1	ug/L
75-09-2	Methylene Chloride	0.5	U	0.41	0.5	1	ug/L
156-60-5	trans-1,2-Dichloroethene	0.5	U	0.41	0.5	1	ug/L
75-34-3	1,1-Dichloroethane	0.5	U	0.36	0.5	1	ug/L
110-82-7	Cyclohexane	0.5	U	0.2	0.5	1	ug/L
78-93-3	2-Butanone	2.5	U	1.3	2.5	5	ug/L
56-23-5	Carbon Tetrachloride	0.5	U	0.2	0.5	1	ug/L
156-59-2	cis-1,2-Dichloroethene	95.7		0.35	0.5	1	ug/L
74-97-5	Bromochloromethane	0.5	UQ	0.2	0.5	1	ug/L
67-66-3	Chloroform	0.5	U	0.34	0.5	1	ug/L
71-55-6	1,1,1-Trichloroethane	0.5	U	0.4	0.5	1	ug/L
108-87-2	Methylcyclohexane	0.5	U	0.2	0.5	1	ug/L
71-43-2	Benzene	0.5	U	0.32	0.5	1	ug/L
107-06-2	1,2-Dichloroethane	0.5	U	0.48	0.5	1	ug/L
79-01-6	Trichloroethene	41		0.28	0.5	1	ug/L
78-87-5	1,2-Dichloropropane	0.5	U	0.46	0.5	1	ug/L
75-27-4	Bromodichloromethane	0.5	U	0.36	0.5	1	ug/L
108-10-1	4-Methyl-2-Pentanone	2.5	U	2.1	2.5	5	ug/L
108-88-3	Toluene	0.5	U	0.37	0.5	1	ug/L
10061-02-6	t-1,3-Dichloropropene	0.5	U	0.29	0.5	1	ug/L

Report of Analysis

Client:	Impact Environmental	Date Collected:	06/21/13
Project:	Melody Cleaners	Date Received:	06/25/13
Client Sample ID:	MLW-8D	SDG No.:	E2678
Lab Sample ID:	E2678-04	Matrix:	Water
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN006749.D	1		06/27/13	VN062613

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-01-5	cis-1,3-Dichloropropene	0.5	U	0.31	0.5	1	ug/L
79-00-5	1,1,2-Trichloroethane	0.5	U	0.38	0.5	1	ug/L
591-78-6	2-Hexanone	2.5	U	1.9	2.5	5	ug/L
124-48-1	Dibromochloromethane	0.5	U	0.2	0.5	1	ug/L
106-93-4	1,2-Dibromoethane	0.5	U	0.41	0.5	1	ug/L
127-18-4	Tetrachloroethene	110		0.27	0.5	1	ug/L
108-90-7	Chlorobenzene	0.5	U	0.49	0.5	1	ug/L
100-41-4	Ethyl Benzene	0.5	U	0.2	0.5	1	ug/L
179601-23-1	m/p-Xylenes	1	U	0.95	1	2	ug/L
95-47-6	o-Xylene	0.5	U	0.43	0.5	1	ug/L
100-42-5	Styrene	0.5	U	0.36	0.5	1	ug/L
75-25-2	Bromoform	0.5	U	0.47	0.5	1	ug/L
98-82-8	Isopropylbenzene	0.5	U	0.45	0.5	1	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.5	U	0.31	0.5	1	ug/L
541-73-1	1,3-Dichlorobenzene	0.5	U	0.43	0.5	1	ug/L
106-46-7	1,4-Dichlorobenzene	0.5	U	0.32	0.5	1	ug/L
95-50-1	1,2-Dichlorobenzene	0.5	U	0.45	0.5	1	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.5	U	0.46	0.5	1	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.5	U	0.2	0.5	1	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.5	U	0.2	0.5	1	ug/L
123-91-1	1,4-Dioxane	100	U	100	100	100	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	56.1		61 - 141		112%	SPK: 50
1868-53-7	Dibromofluoromethane	46.9		69 - 133		94%	SPK: 50
2037-26-5	Toluene-d8	48.1		65 - 126		96%	SPK: 50
460-00-4	4-Bromofluorobenzene	44.8		58 - 135		90%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	339027	7.87				
540-36-3	1,4-Difluorobenzene	567157	8.79				
3114-55-4	Chlorobenzene-d5	515147	11.61				
3855-82-1	1,4-Dichlorobenzene-d4	222768	13.56				

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Report of Analysis

Client:	Impact Environmental	Date Collected:	06/21/13
Project:	Melody Cleaners	Date Received:	06/25/13
Client Sample ID:	MLW-8D	SDG No.:	E2678
Lab Sample ID:	E2678-04	Matrix:	Water
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN006749.D	1		06/27/13	VN062613

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

Report of Analysis

Client:	Impact Environmental	Date Collected:	06/21/13
Project:	Melody Cleaners	Date Received:	06/25/13
Client Sample ID:	MLW-8I	SDG No.:	E2678
Lab Sample ID:	E2678-05	Matrix:	Water
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN006751.D	1		06/27/13	VN062613

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.5	U	0.2	0.5	1	ug/L
74-87-3	Chloromethane	0.5	U	0.2	0.5	1	ug/L
75-01-4	Vinyl Chloride	0.5	U	0.34	0.5	1	ug/L
74-83-9	Bromomethane	0.5	U	0.2	0.5	1	ug/L
75-00-3	Chloroethane	0.5	U	0.2	0.5	1	ug/L
75-69-4	Trichlorofluoromethane	0.5	U	0.35	0.5	1	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.5	U	0.45	0.5	1	ug/L
75-35-4	1,1-Dichloroethene	0.5	U	0.47	0.5	1	ug/L
67-64-1	Acetone	3.9	J	0.5	2.5	5	ug/L
75-15-0	Carbon Disulfide	0.5	U	0.2	0.5	1	ug/L
1634-04-4	Methyl tert-butyl Ether	0.5	U	0.35	0.5	1	ug/L
79-20-9	Methyl Acetate	0.5	U	0.2	0.5	1	ug/L
75-09-2	Methylene Chloride	0.5	U	0.41	0.5	1	ug/L
156-60-5	trans-1,2-Dichloroethene	0.5	U	0.41	0.5	1	ug/L
75-34-3	1,1-Dichloroethane	0.5	U	0.36	0.5	1	ug/L
110-82-7	Cyclohexane	0.5	U	0.2	0.5	1	ug/L
78-93-3	2-Butanone	2.5	U	1.3	2.5	5	ug/L
56-23-5	Carbon Tetrachloride	0.5	U	0.2	0.5	1	ug/L
156-59-2	cis-1,2-Dichloroethene	12.9		0.35	0.5	1	ug/L
74-97-5	Bromochloromethane	0.5	UQ	0.2	0.5	1	ug/L
67-66-3	Chloroform	0.5	U	0.34	0.5	1	ug/L
71-55-6	1,1,1-Trichloroethane	0.5	U	0.4	0.5	1	ug/L
108-87-2	Methylcyclohexane	0.5	U	0.2	0.5	1	ug/L
71-43-2	Benzene	0.5	U	0.32	0.5	1	ug/L
107-06-2	1,2-Dichloroethane	0.5	U	0.48	0.5	1	ug/L
79-01-6	Trichloroethene	3.6		0.28	0.5	1	ug/L
78-87-5	1,2-Dichloropropane	0.5	U	0.46	0.5	1	ug/L
75-27-4	Bromodichloromethane	0.5	U	0.36	0.5	1	ug/L
108-10-1	4-Methyl-2-Pentanone	2.5	U	2.1	2.5	5	ug/L
108-88-3	Toluene	0.5	U	0.37	0.5	1	ug/L
10061-02-6	t-1,3-Dichloropropene	0.5	U	0.29	0.5	1	ug/L

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Report of Analysis

Client:	Impact Environmental	Date Collected:	06/21/13
Project:	Melody Cleaners	Date Received:	06/25/13
Client Sample ID:	MLW-8I	SDG No.:	E2678
Lab Sample ID:	E2678-05	Matrix:	Water
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN006751.D	1		06/27/13	VN062613

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-01-5	cis-1,3-Dichloropropene	0.5	U	0.31	0.5	1	ug/L
79-00-5	1,1,2-Trichloroethane	0.5	U	0.38	0.5	1	ug/L
591-78-6	2-Hexanone	2.5	U	1.9	2.5	5	ug/L
124-48-1	Dibromochloromethane	0.5	U	0.2	0.5	1	ug/L
106-93-4	1,2-Dibromoethane	0.5	U	0.41	0.5	1	ug/L
127-18-4	Tetrachloroethene	10.2		0.27	0.5	1	ug/L
108-90-7	Chlorobenzene	0.5	U	0.49	0.5	1	ug/L
100-41-4	Ethyl Benzene	0.5	U	0.2	0.5	1	ug/L
179601-23-1	m/p-Xylenes	1	U	0.95	1	2	ug/L
95-47-6	o-Xylene	0.5	U	0.43	0.5	1	ug/L
100-42-5	Styrene	0.5	U	0.36	0.5	1	ug/L
75-25-2	Bromoform	0.5	U	0.47	0.5	1	ug/L
98-82-8	Isopropylbenzene	0.5	U	0.45	0.5	1	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.5	U	0.31	0.5	1	ug/L
541-73-1	1,3-Dichlorobenzene	0.5	U	0.43	0.5	1	ug/L
106-46-7	1,4-Dichlorobenzene	0.5	U	0.32	0.5	1	ug/L
95-50-1	1,2-Dichlorobenzene	0.5	U	0.45	0.5	1	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.5	U	0.46	0.5	1	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.5	U	0.2	0.5	1	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.5	U	0.2	0.5	1	ug/L
123-91-1	1,4-Dioxane	100	U	100	100	100	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	58.8		61 - 141		118%	SPK: 50
1868-53-7	Dibromofluoromethane	47.9		69 - 133		96%	SPK: 50
2037-26-5	Toluene-d8	48.2		65 - 126		96%	SPK: 50
460-00-4	4-Bromofluorobenzene	44.5		58 - 135		89%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	318254	7.87				
540-36-3	1,4-Difluorobenzene	549623	8.79				
3114-55-4	Chlorobenzene-d5	497119	11.61				
3855-82-1	1,4-Dichlorobenzene-d4	219632	13.56				

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Report of Analysis

Client:	Impact Environmental	Date Collected:	06/21/13
Project:	Melody Cleaners	Date Received:	06/25/13
Client Sample ID:	MLW-8I	SDG No.:	E2678
Lab Sample ID:	E2678-05	Matrix:	Water
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN006751.D	1		06/27/13	VN062613

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

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Report of Analysis

Client:	Impact Environmental	Date Collected:	06/21/13
Project:	Melody Cleaners	Date Received:	06/25/13
Client Sample ID:	MLW-8S	SDG No.:	E2678
Lab Sample ID:	E2678-06	Matrix:	Water
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN006740.D	1		06/27/13	VN062613

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.5	U	0.2	0.5	1	ug/L
74-87-3	Chloromethane	0.5	U	0.2	0.5	1	ug/L
75-01-4	Vinyl Chloride	0.5	U	0.34	0.5	1	ug/L
74-83-9	Bromomethane	0.5	U	0.2	0.5	1	ug/L
75-00-3	Chloroethane	0.5	U	0.2	0.5	1	ug/L
75-69-4	Trichlorofluoromethane	0.5	U	0.35	0.5	1	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.5	U	0.45	0.5	1	ug/L
75-35-4	1,1-Dichloroethene	0.5	U	0.47	0.5	1	ug/L
67-64-1	Acetone	7.5		0.5	2.5	5	ug/L
75-15-0	Carbon Disulfide	0.5	U	0.2	0.5	1	ug/L
1634-04-4	Methyl tert-butyl Ether	0.5	U	0.35	0.5	1	ug/L
79-20-9	Methyl Acetate	0.5	U	0.2	0.5	1	ug/L
75-09-2	Methylene Chloride	0.5	U	0.41	0.5	1	ug/L
156-60-5	trans-1,2-Dichloroethene	0.5	U	0.41	0.5	1	ug/L
75-34-3	1,1-Dichloroethane	0.5	U	0.36	0.5	1	ug/L
110-82-7	Cyclohexane	0.5	U	0.2	0.5	1	ug/L
78-93-3	2-Butanone	2.5	U	1.3	2.5	5	ug/L
56-23-5	Carbon Tetrachloride	0.5	U	0.2	0.5	1	ug/L
156-59-2	cis-1,2-Dichloroethene	0.84	J	0.35	0.5	1	ug/L
74-97-5	Bromochloromethane	0.5	UQ	0.2	0.5	1	ug/L
67-66-3	Chloroform	0.64	J	0.34	0.5	1	ug/L
71-55-6	1,1,1-Trichloroethane	0.5	U	0.4	0.5	1	ug/L
108-87-2	Methylcyclohexane	0.5	U	0.2	0.5	1	ug/L
71-43-2	Benzene	0.5	U	0.32	0.5	1	ug/L
107-06-2	1,2-Dichloroethane	0.5	U	0.48	0.5	1	ug/L
79-01-6	Trichloroethene	0.41	J	0.28	0.5	1	ug/L
78-87-5	1,2-Dichloropropane	0.5	U	0.46	0.5	1	ug/L
75-27-4	Bromodichloromethane	0.5	U	0.36	0.5	1	ug/L
108-10-1	4-Methyl-2-Pentanone	2.5	U	2.1	2.5	5	ug/L
108-88-3	Toluene	0.5	U	0.37	0.5	1	ug/L
10061-02-6	t-1,3-Dichloropropene	0.5	U	0.29	0.5	1	ug/L

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Report of Analysis

Client:	Impact Environmental	Date Collected:	06/21/13
Project:	Melody Cleaners	Date Received:	06/25/13
Client Sample ID:	MLW-8S	SDG No.:	E2678
Lab Sample ID:	E2678-06	Matrix:	Water
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN006740.D	1		06/27/13	VN062613

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-01-5	cis-1,3-Dichloropropene	0.5	U	0.31	0.5	1	ug/L
79-00-5	1,1,2-Trichloroethane	0.5	U	0.38	0.5	1	ug/L
591-78-6	2-Hexanone	2.5	U	1.9	2.5	5	ug/L
124-48-1	Dibromochloromethane	0.5	U	0.2	0.5	1	ug/L
106-93-4	1,2-Dibromoethane	0.5	U	0.41	0.5	1	ug/L
127-18-4	Tetrachloroethene	0.46	J	0.27	0.5	1	ug/L
108-90-7	Chlorobenzene	0.5	U	0.49	0.5	1	ug/L
100-41-4	Ethyl Benzene	0.5	U	0.2	0.5	1	ug/L
179601-23-1	m/p-Xylenes	1	U	0.95	1	2	ug/L
95-47-6	o-Xylene	0.5	U	0.43	0.5	1	ug/L
100-42-5	Styrene	0.5	U	0.36	0.5	1	ug/L
75-25-2	Bromoform	0.5	U	0.47	0.5	1	ug/L
98-82-8	Isopropylbenzene	0.5	U	0.45	0.5	1	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.5	U	0.31	0.5	1	ug/L
541-73-1	1,3-Dichlorobenzene	0.5	U	0.43	0.5	1	ug/L
106-46-7	1,4-Dichlorobenzene	0.5	U	0.32	0.5	1	ug/L
95-50-1	1,2-Dichlorobenzene	0.5	U	0.45	0.5	1	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.5	U	0.46	0.5	1	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.5	U	0.2	0.5	1	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.5	U	0.2	0.5	1	ug/L
123-91-1	1,4-Dioxane	100	U	100	100	100	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	58.4		61 - 141		117%	SPK: 50
1868-53-7	Dibromofluoromethane	47.5		69 - 133		95%	SPK: 50
2037-26-5	Toluene-d8	48.8		65 - 126		98%	SPK: 50
460-00-4	4-Bromofluorobenzene	44.8		58 - 135		90%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	330161	7.87				
540-36-3	1,4-Difluorobenzene	572139	8.79				
3114-55-4	Chlorobenzene-d5	529718	11.61				
3855-82-1	1,4-Dichlorobenzene-d4	230221	13.56				

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Report of Analysis

Client:	Impact Environmental	Date Collected:	06/21/13
Project:	Melody Cleaners	Date Received:	06/25/13
Client Sample ID:	MLW-8S	SDG No.:	E2678
Lab Sample ID:	E2678-06	Matrix:	Water
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN006740.D	1		06/27/13	VN062613

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

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Report of Analysis

Client:	Impact Environmental	Date Collected:	06/21/13
Project:	Melody Cleaners	Date Received:	06/25/13
Client Sample ID:	MLW-9D	SDG No.:	E2678
Lab Sample ID:	E2678-07	Matrix:	Water
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN006739.D	1		06/27/13	VN062613

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.5	U	0.2	0.5	1	ug/L
74-87-3	Chloromethane	0.5	U	0.2	0.5	1	ug/L
75-01-4	Vinyl Chloride	0.5	U	0.34	0.5	1	ug/L
74-83-9	Bromomethane	0.5	U	0.2	0.5	1	ug/L
75-00-3	Chloroethane	0.5	U	0.2	0.5	1	ug/L
75-69-4	Trichlorofluoromethane	0.5	U	0.35	0.5	1	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.5	U	0.45	0.5	1	ug/L
75-35-4	1,1-Dichloroethene	0.5	U	0.47	0.5	1	ug/L
67-64-1	Acetone	43.9		0.5	2.5	5	ug/L
75-15-0	Carbon Disulfide	0.5	U	0.2	0.5	1	ug/L
1634-04-4	Methyl tert-butyl Ether	0.5	U	0.35	0.5	1	ug/L
79-20-9	Methyl Acetate	0.5	U	0.2	0.5	1	ug/L
75-09-2	Methylene Chloride	0.5	U	0.41	0.5	1	ug/L
156-60-5	trans-1,2-Dichloroethene	0.5	U	0.41	0.5	1	ug/L
75-34-3	1,1-Dichloroethane	0.5	U	0.36	0.5	1	ug/L
110-82-7	Cyclohexane	0.5	U	0.2	0.5	1	ug/L
78-93-3	2-Butanone	15.5		1.3	2.5	5	ug/L
56-23-5	Carbon Tetrachloride	0.5	U	0.2	0.5	1	ug/L
156-59-2	cis-1,2-Dichloroethene	0.5	U	0.35	0.5	1	ug/L
74-97-5	Bromochloromethane	0.5	UQ	0.2	0.5	1	ug/L
67-66-3	Chloroform	0.5	U	0.34	0.5	1	ug/L
71-55-6	1,1,1-Trichloroethane	0.5	U	0.4	0.5	1	ug/L
108-87-2	Methylcyclohexane	0.5	U	0.2	0.5	1	ug/L
71-43-2	Benzene	0.5	U	0.32	0.5	1	ug/L
107-06-2	1,2-Dichloroethane	0.5	U	0.48	0.5	1	ug/L
79-01-6	Trichloroethene	0.5	U	0.28	0.5	1	ug/L
78-87-5	1,2-Dichloropropane	0.5	U	0.46	0.5	1	ug/L
75-27-4	Bromodichloromethane	0.5	U	0.36	0.5	1	ug/L
108-10-1	4-Methyl-2-Pentanone	2.5	U	2.1	2.5	5	ug/L
108-88-3	Toluene	0.5	U	0.37	0.5	1	ug/L
10061-02-6	t-1,3-Dichloropropene	0.5	U	0.29	0.5	1	ug/L

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Report of Analysis

Client:	Impact Environmental	Date Collected:	06/21/13
Project:	Melody Cleaners	Date Received:	06/25/13
Client Sample ID:	MLW-9D	SDG No.:	E2678
Lab Sample ID:	E2678-07	Matrix:	Water
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN006739.D	1		06/27/13	VN062613

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-01-5	cis-1,3-Dichloropropene	0.5	U	0.31	0.5	1	ug/L
79-00-5	1,1,2-Trichloroethane	0.5	U	0.38	0.5	1	ug/L
591-78-6	2-Hexanone	2.5	U	1.9	2.5	5	ug/L
124-48-1	Dibromochloromethane	0.5	U	0.2	0.5	1	ug/L
106-93-4	1,2-Dibromoethane	0.5	U	0.41	0.5	1	ug/L
127-18-4	Tetrachloroethene	0.5	U	0.27	0.5	1	ug/L
108-90-7	Chlorobenzene	0.5	U	0.49	0.5	1	ug/L
100-41-4	Ethyl Benzene	0.5	U	0.2	0.5	1	ug/L
179601-23-1	m/p-Xylenes	1	U	0.95	1	2	ug/L
95-47-6	o-Xylene	0.5	U	0.43	0.5	1	ug/L
100-42-5	Styrene	0.5	U	0.36	0.5	1	ug/L
75-25-2	Bromoform	0.5	U	0.47	0.5	1	ug/L
98-82-8	Isopropylbenzene	0.5	U	0.45	0.5	1	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.5	U	0.31	0.5	1	ug/L
541-73-1	1,3-Dichlorobenzene	0.5	U	0.43	0.5	1	ug/L
106-46-7	1,4-Dichlorobenzene	0.5	U	0.32	0.5	1	ug/L
95-50-1	1,2-Dichlorobenzene	0.5	U	0.45	0.5	1	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.5	U	0.46	0.5	1	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.5	U	0.2	0.5	1	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.5	U	0.2	0.5	1	ug/L
123-91-1	1,4-Dioxane	100	U	100	100	100	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	55.6		61 - 141		111%	SPK: 50
1868-53-7	Dibromofluoromethane	48.2		69 - 133		96%	SPK: 50
2037-26-5	Toluene-d8	49		65 - 126		98%	SPK: 50
460-00-4	4-Bromofluorobenzene	46.2		58 - 135		92%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	352815	7.87				
540-36-3	1,4-Difluorobenzene	593134	8.79				
3114-55-4	Chlorobenzene-d5	547032	11.61				
3855-82-1	1,4-Dichlorobenzene-d4	244226	13.56				
TENTATIVE IDENTIFIED COMPOUNDS							

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Report of Analysis

Client:	Impact Environmental	Date Collected:	06/21/13
Project:	Melody Cleaners	Date Received:	06/25/13
Client Sample ID:	MLW-9D	SDG No.:	E2678
Lab Sample ID:	E2678-07	Matrix:	Water
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN006739.D	1		06/27/13	VN062613

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
109-99-9	Tetrahydrofuran	24.9	J			7.46	ug/L

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

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Report of Analysis

Client:	Impact Environmental	Date Collected:	06/21/13
Project:	Melody Cleaners	Date Received:	06/25/13
Client Sample ID:	MLW-9I	SDG No.:	E2678
Lab Sample ID:	E2678-08	Matrix:	Water
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN006753.D	1		06/27/13	VN062613

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.5	U	0.2	0.5	1	ug/L
74-87-3	Chloromethane	0.5	U	0.2	0.5	1	ug/L
75-01-4	Vinyl Chloride	0.5	U	0.34	0.5	1	ug/L
74-83-9	Bromomethane	0.5	U	0.2	0.5	1	ug/L
75-00-3	Chloroethane	0.5	U	0.2	0.5	1	ug/L
75-69-4	Trichlorofluoromethane	0.5	U	0.35	0.5	1	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.5	U	0.45	0.5	1	ug/L
75-35-4	1,1-Dichloroethene	0.96	J	0.47	0.5	1	ug/L
67-64-1	Acetone	3.8	J	0.5	2.5	5	ug/L
75-15-0	Carbon Disulfide	0.5	U	0.2	0.5	1	ug/L
1634-04-4	Methyl tert-butyl Ether	0.5	U	0.35	0.5	1	ug/L
79-20-9	Methyl Acetate	0.5	U	0.2	0.5	1	ug/L
75-09-2	Methylene Chloride	0.5	U	0.41	0.5	1	ug/L
156-60-5	trans-1,2-Dichloroethene	0.5	U	0.41	0.5	1	ug/L
75-34-3	1,1-Dichloroethane	3.3		0.36	0.5	1	ug/L
110-82-7	Cyclohexane	0.5	U	0.2	0.5	1	ug/L
78-93-3	2-Butanone	2.5	U	1.3	2.5	5	ug/L
56-23-5	Carbon Tetrachloride	0.5	U	0.2	0.5	1	ug/L
156-59-2	cis-1,2-Dichloroethene	37.9		0.35	0.5	1	ug/L
74-97-5	Bromochloromethane	0.5	UQ	0.2	0.5	1	ug/L
67-66-3	Chloroform	0.5	U	0.34	0.5	1	ug/L
71-55-6	1,1,1-Trichloroethane	0.5	U	0.4	0.5	1	ug/L
108-87-2	Methylcyclohexane	0.5	U	0.2	0.5	1	ug/L
71-43-2	Benzene	0.5	U	0.32	0.5	1	ug/L
107-06-2	1,2-Dichloroethane	0.5	U	0.48	0.5	1	ug/L
79-01-6	Trichloroethene	26.2		0.28	0.5	1	ug/L
78-87-5	1,2-Dichloropropane	0.5	U	0.46	0.5	1	ug/L
75-27-4	Bromodichloromethane	0.5	U	0.36	0.5	1	ug/L
108-10-1	4-Methyl-2-Pentanone	2.5	U	2.1	2.5	5	ug/L
108-88-3	Toluene	0.5	U	0.37	0.5	1	ug/L
10061-02-6	t-1,3-Dichloropropene	0.5	U	0.29	0.5	1	ug/L

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Report of Analysis

Client:	Impact Environmental	Date Collected:	06/21/13
Project:	Melody Cleaners	Date Received:	06/25/13
Client Sample ID:	MLW-9I	SDG No.:	E2678
Lab Sample ID:	E2678-08	Matrix:	Water
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN006753.D	1		06/27/13	VN062613

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-01-5	cis-1,3-Dichloropropene	0.5	U	0.31	0.5	1	ug/L
79-00-5	1,1,2-Trichloroethane	0.5	U	0.38	0.5	1	ug/L
591-78-6	2-Hexanone	2.5	U	1.9	2.5	5	ug/L
124-48-1	Dibromochloromethane	0.5	U	0.2	0.5	1	ug/L
106-93-4	1,2-Dibromoethane	0.5	U	0.41	0.5	1	ug/L
127-18-4	Tetrachloroethene	90.6		0.27	0.5	1	ug/L
108-90-7	Chlorobenzene	0.5	U	0.49	0.5	1	ug/L
100-41-4	Ethyl Benzene	0.5	U	0.2	0.5	1	ug/L
179601-23-1	m/p-Xylenes	1	U	0.95	1	2	ug/L
95-47-6	o-Xylene	0.5	U	0.43	0.5	1	ug/L
100-42-5	Styrene	0.5	U	0.36	0.5	1	ug/L
75-25-2	Bromoform	0.5	U	0.47	0.5	1	ug/L
98-82-8	Isopropylbenzene	0.5	U	0.45	0.5	1	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.5	U	0.31	0.5	1	ug/L
541-73-1	1,3-Dichlorobenzene	0.5	U	0.43	0.5	1	ug/L
106-46-7	1,4-Dichlorobenzene	0.5	U	0.32	0.5	1	ug/L
95-50-1	1,2-Dichlorobenzene	0.5	U	0.45	0.5	1	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.5	U	0.46	0.5	1	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.5	U	0.2	0.5	1	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.5	U	0.2	0.5	1	ug/L
123-91-1	1,4-Dioxane	100	U	100	100	100	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	58.4		61 - 141		117%	SPK: 50
1868-53-7	Dibromofluoromethane	46.9		69 - 133		94%	SPK: 50
2037-26-5	Toluene-d8	48.7		65 - 126		97%	SPK: 50
460-00-4	4-Bromofluorobenzene	45.5		58 - 135		91%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	320810	7.87				
540-36-3	1,4-Difluorobenzene	544047	8.79				
3114-55-4	Chlorobenzene-d5	503448	11.61				
3855-82-1	1,4-Dichlorobenzene-d4	222424	13.56				

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Report of Analysis

Client:	Impact Environmental	Date Collected:	06/21/13
Project:	Melody Cleaners	Date Received:	06/25/13
Client Sample ID:	MLW-9I	SDG No.:	E2678
Lab Sample ID:	E2678-08	Matrix:	Water
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN006753.D	1		06/27/13	VN062613

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

Report of Analysis

Client:	Impact Environmental	Date Collected:	06/21/13
Project:	Melody Cleaners	Date Received:	06/25/13
Client Sample ID:	DUP-2	SDG No.:	E2678
Lab Sample ID:	E2678-09	Matrix:	Water
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN006747.D	1		06/27/13	VN062613

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.5	U	0.2	0.5	1	ug/L
74-87-3	Chloromethane	0.5	U	0.2	0.5	1	ug/L
75-01-4	Vinyl Chloride	0.5	U	0.34	0.5	1	ug/L
74-83-9	Bromomethane	0.5	U	0.2	0.5	1	ug/L
75-00-3	Chloroethane	0.5	U	0.2	0.5	1	ug/L
75-69-4	Trichlorofluoromethane	0.5	U	0.35	0.5	1	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.5	U	0.45	0.5	1	ug/L
75-35-4	1,1-Dichloroethene	0.5	U	0.47	0.5	1	ug/L
67-64-1	Acetone	4.3	J	0.5	2.5	5	ug/L
75-15-0	Carbon Disulfide	0.5	U	0.2	0.5	1	ug/L
1634-04-4	Methyl tert-butyl Ether	0.5	U	0.35	0.5	1	ug/L
79-20-9	Methyl Acetate	0.5	U	0.2	0.5	1	ug/L
75-09-2	Methylene Chloride	0.5	U	0.41	0.5	1	ug/L
156-60-5	trans-1,2-Dichloroethene	0.5	U	0.41	0.5	1	ug/L
75-34-3	1,1-Dichloroethane	3.1		0.36	0.5	1	ug/L
110-82-7	Cyclohexane	0.5	U	0.2	0.5	1	ug/L
78-93-3	2-Butanone	2.5	U	1.3	2.5	5	ug/L
56-23-5	Carbon Tetrachloride	0.5	U	0.2	0.5	1	ug/L
156-59-2	cis-1,2-Dichloroethene	37.9		0.35	0.5	1	ug/L
74-97-5	Bromochloromethane	0.5	UQ	0.2	0.5	1	ug/L
67-66-3	Chloroform	0.5	U	0.34	0.5	1	ug/L
71-55-6	1,1,1-Trichloroethane	0.5	U	0.4	0.5	1	ug/L
108-87-2	Methylcyclohexane	0.5	U	0.2	0.5	1	ug/L
71-43-2	Benzene	0.5	U	0.32	0.5	1	ug/L
107-06-2	1,2-Dichloroethane	0.5	U	0.48	0.5	1	ug/L
79-01-6	Trichloroethene	28.1		0.28	0.5	1	ug/L
78-87-5	1,2-Dichloropropane	0.5	U	0.46	0.5	1	ug/L
75-27-4	Bromodichloromethane	0.5	U	0.36	0.5	1	ug/L
108-10-1	4-Methyl-2-Pentanone	2.5	U	2.1	2.5	5	ug/L
108-88-3	Toluene	0.5	U	0.37	0.5	1	ug/L
10061-02-6	t-1,3-Dichloropropene	0.5	U	0.29	0.5	1	ug/L

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Report of Analysis

Client:	Impact Environmental	Date Collected:	06/21/13
Project:	Melody Cleaners	Date Received:	06/25/13
Client Sample ID:	DUP-2	SDG No.:	E2678
Lab Sample ID:	E2678-09	Matrix:	Water
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN006747.D	1		06/27/13	VN062613

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-01-5	cis-1,3-Dichloropropene	0.5	U	0.31	0.5	1	ug/L
79-00-5	1,1,2-Trichloroethane	0.5	U	0.38	0.5	1	ug/L
591-78-6	2-Hexanone	2.5	U	1.9	2.5	5	ug/L
124-48-1	Dibromochloromethane	0.5	U	0.2	0.5	1	ug/L
106-93-4	1,2-Dibromoethane	0.5	U	0.41	0.5	1	ug/L
127-18-4	Tetrachloroethene	89.2		0.27	0.5	1	ug/L
108-90-7	Chlorobenzene	0.5	U	0.49	0.5	1	ug/L
100-41-4	Ethyl Benzene	0.5	U	0.2	0.5	1	ug/L
179601-23-1	m/p-Xylenes	1	U	0.95	1	2	ug/L
95-47-6	o-Xylene	0.5	U	0.43	0.5	1	ug/L
100-42-5	Styrene	0.5	U	0.36	0.5	1	ug/L
75-25-2	Bromoform	0.5	U	0.47	0.5	1	ug/L
98-82-8	Isopropylbenzene	0.5	U	0.45	0.5	1	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.5	U	0.31	0.5	1	ug/L
541-73-1	1,3-Dichlorobenzene	0.5	U	0.43	0.5	1	ug/L
106-46-7	1,4-Dichlorobenzene	0.5	U	0.32	0.5	1	ug/L
95-50-1	1,2-Dichlorobenzene	0.5	U	0.45	0.5	1	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.5	U	0.46	0.5	1	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.5	U	0.2	0.5	1	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.5	U	0.2	0.5	1	ug/L
123-91-1	1,4-Dioxane	100	U	100	100	100	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	57.2		61 - 141		114%	SPK: 50
1868-53-7	Dibromofluoromethane	48		69 - 133		96%	SPK: 50
2037-26-5	Toluene-d8	49.3		65 - 126		99%	SPK: 50
460-00-4	4-Bromofluorobenzene	45.6		58 - 135		91%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	339984	7.87				
540-36-3	1,4-Difluorobenzene	572384	8.79				
3114-55-4	Chlorobenzene-d5	538779	11.61				
3855-82-1	1,4-Dichlorobenzene-d4	232348	13.56				

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Report of Analysis

Client:	Impact Environmental	Date Collected:	06/21/13
Project:	Melody Cleaners	Date Received:	06/25/13
Client Sample ID:	DUP-2	SDG No.:	E2678
Lab Sample ID:	E2678-09	Matrix:	Water
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN006747.D	1		06/27/13	VN062613

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

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Report of Analysis

Client:	Impact Environmental	Date Collected:	06/21/13
Project:	Melody Cleaners	Date Received:	06/25/13
Client Sample ID:	MLW-9S	SDG No.:	E2678
Lab Sample ID:	E2678-10	Matrix:	Water
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN006748.D	1		06/27/13	VN062613

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.5	U	0.2	0.5	1	ug/L
74-87-3	Chloromethane	0.5	U	0.2	0.5	1	ug/L
75-01-4	Vinyl Chloride	0.5	U	0.34	0.5	1	ug/L
74-83-9	Bromomethane	0.5	U	0.2	0.5	1	ug/L
75-00-3	Chloroethane	0.5	U	0.2	0.5	1	ug/L
75-69-4	Trichlorofluoromethane	0.5	U	0.35	0.5	1	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.5	U	0.45	0.5	1	ug/L
75-35-4	1,1-Dichloroethene	0.5	U	0.47	0.5	1	ug/L
67-64-1	Acetone	7.5		0.5	2.5	5	ug/L
75-15-0	Carbon Disulfide	0.5	U	0.2	0.5	1	ug/L
1634-04-4	Methyl tert-butyl Ether	0.5	U	0.35	0.5	1	ug/L
79-20-9	Methyl Acetate	0.5	U	0.2	0.5	1	ug/L
75-09-2	Methylene Chloride	0.5	U	0.41	0.5	1	ug/L
156-60-5	trans-1,2-Dichloroethene	0.5	U	0.41	0.5	1	ug/L
75-34-3	1,1-Dichloroethane	0.5	U	0.36	0.5	1	ug/L
110-82-7	Cyclohexane	0.5	U	0.2	0.5	1	ug/L
78-93-3	2-Butanone	2.5	U	1.3	2.5	5	ug/L
56-23-5	Carbon Tetrachloride	0.5	U	0.2	0.5	1	ug/L
156-59-2	cis-1,2-Dichloroethene	0.5	U	0.35	0.5	1	ug/L
74-97-5	Bromochloromethane	0.5	UQ	0.2	0.5	1	ug/L
67-66-3	Chloroform	0.5	U	0.34	0.5	1	ug/L
71-55-6	1,1,1-Trichloroethane	0.5	U	0.4	0.5	1	ug/L
108-87-2	Methylcyclohexane	0.5	U	0.2	0.5	1	ug/L
71-43-2	Benzene	0.5	U	0.32	0.5	1	ug/L
107-06-2	1,2-Dichloroethane	0.5	U	0.48	0.5	1	ug/L
79-01-6	Trichloroethene	0.5	U	0.28	0.5	1	ug/L
78-87-5	1,2-Dichloropropane	0.5	U	0.46	0.5	1	ug/L
75-27-4	Bromodichloromethane	0.5	U	0.36	0.5	1	ug/L
108-10-1	4-Methyl-2-Pentanone	2.5	U	2.1	2.5	5	ug/L
108-88-3	Toluene	0.5	U	0.37	0.5	1	ug/L
10061-02-6	t-1,3-Dichloropropene	0.5	U	0.29	0.5	1	ug/L

Report of Analysis

Client:	Impact Environmental	Date Collected:	06/21/13
Project:	Melody Cleaners	Date Received:	06/25/13
Client Sample ID:	MLW-9S	SDG No.:	E2678
Lab Sample ID:	E2678-10	Matrix:	Water
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN006748.D	1		06/27/13	VN062613

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-01-5	cis-1,3-Dichloropropene	0.5	U	0.31	0.5	1	ug/L
79-00-5	1,1,2-Trichloroethane	0.5	U	0.38	0.5	1	ug/L
591-78-6	2-Hexanone	2.5	U	1.9	2.5	5	ug/L
124-48-1	Dibromochloromethane	0.5	U	0.2	0.5	1	ug/L
106-93-4	1,2-Dibromoethane	0.5	U	0.41	0.5	1	ug/L
127-18-4	Tetrachloroethene	0.5	U	0.27	0.5	1	ug/L
108-90-7	Chlorobenzene	0.5	U	0.49	0.5	1	ug/L
100-41-4	Ethyl Benzene	0.5	U	0.2	0.5	1	ug/L
179601-23-1	m/p-Xylenes	1	U	0.95	1	2	ug/L
95-47-6	o-Xylene	0.5	U	0.43	0.5	1	ug/L
100-42-5	Styrene	0.5	U	0.36	0.5	1	ug/L
75-25-2	Bromoform	0.5	U	0.47	0.5	1	ug/L
98-82-8	Isopropylbenzene	0.5	U	0.45	0.5	1	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.5	U	0.31	0.5	1	ug/L
541-73-1	1,3-Dichlorobenzene	0.5	U	0.43	0.5	1	ug/L
106-46-7	1,4-Dichlorobenzene	0.5	U	0.32	0.5	1	ug/L
95-50-1	1,2-Dichlorobenzene	0.5	U	0.45	0.5	1	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.5	U	0.46	0.5	1	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.5	U	0.2	0.5	1	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.5	U	0.2	0.5	1	ug/L
123-91-1	1,4-Dioxane	100	U	100	100	100	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	58.3		61 - 141		117%	SPK: 50
1868-53-7	Dibromofluoromethane	47.6		69 - 133		95%	SPK: 50
2037-26-5	Toluene-d8	48.3		65 - 126		97%	SPK: 50
460-00-4	4-Bromofluorobenzene	45		58 - 135		90%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	327724	7.87				
540-36-3	1,4-Difluorobenzene	566191	8.79				
3114-55-4	Chlorobenzene-d5	520137	11.61				
3855-82-1	1,4-Dichlorobenzene-d4	230579	13.56				

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Report of Analysis

Client:	Impact Environmental	Date Collected:	06/21/13
Project:	Melody Cleaners	Date Received:	06/25/13
Client Sample ID:	MLW-9S	SDG No.:	E2678
Lab Sample ID:	E2678-10	Matrix:	Water
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN006748.D	1		06/27/13	VN062613

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

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Report of Analysis

Client:	Impact Environmental	Date Collected:	06/21/13
Project:	Melody Cleaners	Date Received:	06/25/13
Client Sample ID:	FIELDBLANK	SDG No.:	E2678
Lab Sample ID:	E2678-11	Matrix:	Water
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN006735.D	1		06/27/13	VN062613

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.5	U	0.2	0.5	1	ug/L
74-87-3	Chloromethane	0.5	U	0.2	0.5	1	ug/L
75-01-4	Vinyl Chloride	0.5	U	0.34	0.5	1	ug/L
74-83-9	Bromomethane	0.5	U	0.2	0.5	1	ug/L
75-00-3	Chloroethane	0.5	U	0.2	0.5	1	ug/L
75-69-4	Trichlorofluoromethane	0.5	U	0.35	0.5	1	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.5	U	0.45	0.5	1	ug/L
75-35-4	1,1-Dichloroethene	0.5	U	0.47	0.5	1	ug/L
67-64-1	Acetone	2.5	U	0.5	2.5	5	ug/L
75-15-0	Carbon Disulfide	0.5	U	0.2	0.5	1	ug/L
1634-04-4	Methyl tert-butyl Ether	0.5	U	0.35	0.5	1	ug/L
79-20-9	Methyl Acetate	0.5	U	0.2	0.5	1	ug/L
75-09-2	Methylene Chloride	0.5	U	0.41	0.5	1	ug/L
156-60-5	trans-1,2-Dichloroethene	0.5	U	0.41	0.5	1	ug/L
75-34-3	1,1-Dichloroethane	0.5	U	0.36	0.5	1	ug/L
110-82-7	Cyclohexane	0.5	U	0.2	0.5	1	ug/L
78-93-3	2-Butanone	2.5	U	1.3	2.5	5	ug/L
56-23-5	Carbon Tetrachloride	0.5	U	0.2	0.5	1	ug/L
156-59-2	cis-1,2-Dichloroethene	0.5	U	0.35	0.5	1	ug/L
74-97-5	Bromochloromethane	0.5	UQ	0.2	0.5	1	ug/L
67-66-3	Chloroform	0.5	U	0.34	0.5	1	ug/L
71-55-6	1,1,1-Trichloroethane	0.5	U	0.4	0.5	1	ug/L
108-87-2	Methylcyclohexane	0.5	U	0.2	0.5	1	ug/L
71-43-2	Benzene	0.5	U	0.32	0.5	1	ug/L
107-06-2	1,2-Dichloroethane	0.5	U	0.48	0.5	1	ug/L
79-01-6	Trichloroethene	0.5	U	0.28	0.5	1	ug/L
78-87-5	1,2-Dichloropropane	0.5	U	0.46	0.5	1	ug/L
75-27-4	Bromodichloromethane	0.5	U	0.36	0.5	1	ug/L
108-10-1	4-Methyl-2-Pentanone	2.5	U	2.1	2.5	5	ug/L
108-88-3	Toluene	0.5	U	0.37	0.5	1	ug/L
10061-02-6	t-1,3-Dichloropropene	0.5	U	0.29	0.5	1	ug/L

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Report of Analysis

Client:	Impact Environmental	Date Collected:	06/21/13
Project:	Melody Cleaners	Date Received:	06/25/13
Client Sample ID:	FIELDBLANK	SDG No.:	E2678
Lab Sample ID:	E2678-11	Matrix:	Water
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN006735.D	1		06/27/13	VN062613

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-01-5	cis-1,3-Dichloropropene	0.5	U	0.31	0.5	1	ug/L
79-00-5	1,1,2-Trichloroethane	0.5	U	0.38	0.5	1	ug/L
591-78-6	2-Hexanone	2.5	U	1.9	2.5	5	ug/L
124-48-1	Dibromochloromethane	0.5	U	0.2	0.5	1	ug/L
106-93-4	1,2-Dibromoethane	0.5	U	0.41	0.5	1	ug/L
127-18-4	Tetrachloroethene	0.5	U	0.27	0.5	1	ug/L
108-90-7	Chlorobenzene	0.5	U	0.49	0.5	1	ug/L
100-41-4	Ethyl Benzene	0.5	U	0.2	0.5	1	ug/L
179601-23-1	m/p-Xylenes	1	U	0.95	1	2	ug/L
95-47-6	o-Xylene	0.5	U	0.43	0.5	1	ug/L
100-42-5	Styrene	0.5	U	0.36	0.5	1	ug/L
75-25-2	Bromoform	0.5	U	0.47	0.5	1	ug/L
98-82-8	Isopropylbenzene	0.5	U	0.45	0.5	1	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.5	U	0.31	0.5	1	ug/L
541-73-1	1,3-Dichlorobenzene	0.5	U	0.43	0.5	1	ug/L
106-46-7	1,4-Dichlorobenzene	0.5	U	0.32	0.5	1	ug/L
95-50-1	1,2-Dichlorobenzene	0.5	U	0.45	0.5	1	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.5	U	0.46	0.5	1	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.5	U	0.2	0.5	1	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.5	U	0.2	0.5	1	ug/L
123-91-1	1,4-Dioxane	100	U	100	100	100	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	57		61 - 141		114%	SPK: 50
1868-53-7	Dibromofluoromethane	46.4		69 - 133		93%	SPK: 50
2037-26-5	Toluene-d8	48.4		65 - 126		97%	SPK: 50
460-00-4	4-Bromofluorobenzene	45.1		58 - 135		90%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	352877	7.87				
540-36-3	1,4-Difluorobenzene	604463	8.79				
3114-55-4	Chlorobenzene-d5	549698	11.61				
3855-82-1	1,4-Dichlorobenzene-d4	239512	13.56				

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Report of Analysis

Client:	Impact Environmental	Date Collected:	06/21/13
Project:	Melody Cleaners	Date Received:	06/25/13
Client Sample ID:	FIELDBLANK	SDG No.:	E2678
Lab Sample ID:	E2678-11	Matrix:	Water
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN006735.D	1		06/27/13	VN062613

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

Report of Analysis

Client:	Impact Environmental	Date Collected:	06/21/13
Project:	Melody Cleaners	Date Received:	06/25/13
Client Sample ID:	MLW-0I	SDG No.:	E2678
Lab Sample ID:	E2678-12	Matrix:	Water
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN006741.D	1		06/27/13	VN062613

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.5	U	0.2	0.5	1	ug/L
74-87-3	Chloromethane	0.5	U	0.2	0.5	1	ug/L
75-01-4	Vinyl Chloride	0.5	U	0.34	0.5	1	ug/L
74-83-9	Bromomethane	0.5	U	0.2	0.5	1	ug/L
75-00-3	Chloroethane	0.5	U	0.2	0.5	1	ug/L
75-69-4	Trichlorofluoromethane	0.5	U	0.35	0.5	1	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.5	U	0.45	0.5	1	ug/L
75-35-4	1,1-Dichloroethene	0.5	U	0.47	0.5	1	ug/L
67-64-1	Acetone	12.5		0.5	2.5	5	ug/L
75-15-0	Carbon Disulfide	0.5	U	0.2	0.5	1	ug/L
1634-04-4	Methyl tert-butyl Ether	0.5	U	0.35	0.5	1	ug/L
79-20-9	Methyl Acetate	0.5	U	0.2	0.5	1	ug/L
75-09-2	Methylene Chloride	0.5	U	0.41	0.5	1	ug/L
156-60-5	trans-1,2-Dichloroethene	0.5	U	0.41	0.5	1	ug/L
75-34-3	1,1-Dichloroethane	0.5	U	0.36	0.5	1	ug/L
110-82-7	Cyclohexane	0.5	U	0.2	0.5	1	ug/L
78-93-3	2-Butanone	5.8		1.3	2.5	5	ug/L
56-23-5	Carbon Tetrachloride	0.5	U	0.2	0.5	1	ug/L
156-59-2	cis-1,2-Dichloroethene	0.54	J	0.35	0.5	1	ug/L
74-97-5	Bromochloromethane	0.5	UQ	0.2	0.5	1	ug/L
67-66-3	Chloroform	0.5	U	0.34	0.5	1	ug/L
71-55-6	1,1,1-Trichloroethane	0.5	U	0.4	0.5	1	ug/L
108-87-2	Methylcyclohexane	0.5	U	0.2	0.5	1	ug/L
71-43-2	Benzene	0.5	U	0.32	0.5	1	ug/L
107-06-2	1,2-Dichloroethane	0.5	U	0.48	0.5	1	ug/L
79-01-6	Trichloroethene	0.51	J	0.28	0.5	1	ug/L
78-87-5	1,2-Dichloropropane	0.5	U	0.46	0.5	1	ug/L
75-27-4	Bromodichloromethane	0.5	U	0.36	0.5	1	ug/L
108-10-1	4-Methyl-2-Pentanone	2.5	U	2.1	2.5	5	ug/L
108-88-3	Toluene	0.5	U	0.37	0.5	1	ug/L
10061-02-6	t-1,3-Dichloropropene	0.5	U	0.29	0.5	1	ug/L

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Report of Analysis

Client:	Impact Environmental	Date Collected:	06/21/13
Project:	Melody Cleaners	Date Received:	06/25/13
Client Sample ID:	MLW-0I	SDG No.:	E2678
Lab Sample ID:	E2678-12	Matrix:	Water
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN006741.D	1		06/27/13	VN062613

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-01-5	cis-1,3-Dichloropropene	0.5	U	0.31	0.5	1	ug/L
79-00-5	1,1,2-Trichloroethane	0.5	U	0.38	0.5	1	ug/L
591-78-6	2-Hexanone	2.5	U	1.9	2.5	5	ug/L
124-48-1	Dibromochloromethane	0.5	U	0.2	0.5	1	ug/L
106-93-4	1,2-Dibromoethane	0.5	U	0.41	0.5	1	ug/L
127-18-4	Tetrachloroethene	0.5	U	0.27	0.5	1	ug/L
108-90-7	Chlorobenzene	0.5	U	0.49	0.5	1	ug/L
100-41-4	Ethyl Benzene	0.5	U	0.2	0.5	1	ug/L
179601-23-1	m/p-Xylenes	1	U	0.95	1	2	ug/L
95-47-6	o-Xylene	0.5	U	0.43	0.5	1	ug/L
100-42-5	Styrene	0.5	U	0.36	0.5	1	ug/L
75-25-2	Bromoform	0.5	U	0.47	0.5	1	ug/L
98-82-8	Isopropylbenzene	0.5	U	0.45	0.5	1	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.5	U	0.31	0.5	1	ug/L
541-73-1	1,3-Dichlorobenzene	0.5	U	0.43	0.5	1	ug/L
106-46-7	1,4-Dichlorobenzene	0.5	U	0.32	0.5	1	ug/L
95-50-1	1,2-Dichlorobenzene	0.5	U	0.45	0.5	1	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.5	U	0.46	0.5	1	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.5	U	0.2	0.5	1	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.5	U	0.2	0.5	1	ug/L
123-91-1	1,4-Dioxane	100	U	100	100	100	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	57.6		61 - 141		115%	SPK: 50
1868-53-7	Dibromofluoromethane	47.9		69 - 133		96%	SPK: 50
2037-26-5	Toluene-d8	48.3		65 - 126		97%	SPK: 50
460-00-4	4-Bromofluorobenzene	46.3		58 - 135		93%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	341507	7.87				
540-36-3	1,4-Difluorobenzene	574291	8.79				
3114-55-4	Chlorobenzene-d5	532707	11.61				
3855-82-1	1,4-Dichlorobenzene-d4	234751	13.56				
TENTATIVE IDENTIFIED COMPOUNDS							

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Report of Analysis

Client:	Impact Environmental	Date Collected:	06/21/13
Project:	Melody Cleaners	Date Received:	06/25/13
Client Sample ID:	MLW-0I	SDG No.:	E2678
Lab Sample ID:	E2678-12	Matrix:	Water
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN006741.D	1		06/27/13	VN062613

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
109-99-9	Tetrahydrofuran	10.5	J			7.46	ug/L

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

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Report of Analysis

Client:	Impact Environmental	Date Collected:	06/21/13
Project:	Melody Cleaners	Date Received:	06/25/13
Client Sample ID:	MLW-0D	SDG No.:	E2678
Lab Sample ID:	E2678-13	Matrix:	Water
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN006742.D	1		06/27/13	VN062613

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.5	U	0.2	0.5	1	ug/L
74-87-3	Chloromethane	0.5	U	0.2	0.5	1	ug/L
75-01-4	Vinyl Chloride	0.5	U	0.34	0.5	1	ug/L
74-83-9	Bromomethane	0.5	U	0.2	0.5	1	ug/L
75-00-3	Chloroethane	0.5	U	0.2	0.5	1	ug/L
75-69-4	Trichlorofluoromethane	0.5	U	0.35	0.5	1	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.5	U	0.45	0.5	1	ug/L
75-35-4	1,1-Dichloroethene	0.5	U	0.47	0.5	1	ug/L
67-64-1	Acetone	14.3		0.5	2.5	5	ug/L
75-15-0	Carbon Disulfide	0.5	U	0.2	0.5	1	ug/L
1634-04-4	Methyl tert-butyl Ether	0.5	U	0.35	0.5	1	ug/L
79-20-9	Methyl Acetate	0.5	U	0.2	0.5	1	ug/L
75-09-2	Methylene Chloride	0.5	U	0.41	0.5	1	ug/L
156-60-5	trans-1,2-Dichloroethene	0.5	U	0.41	0.5	1	ug/L
75-34-3	1,1-Dichloroethane	0.5	U	0.36	0.5	1	ug/L
110-82-7	Cyclohexane	0.5	U	0.2	0.5	1	ug/L
78-93-3	2-Butanone	6.6		1.3	2.5	5	ug/L
56-23-5	Carbon Tetrachloride	0.5	U	0.2	0.5	1	ug/L
156-59-2	cis-1,2-Dichloroethene	0.5	U	0.35	0.5	1	ug/L
74-97-5	Bromochloromethane	0.5	UQ	0.2	0.5	1	ug/L
67-66-3	Chloroform	0.5	U	0.34	0.5	1	ug/L
71-55-6	1,1,1-Trichloroethane	0.5	U	0.4	0.5	1	ug/L
108-87-2	Methylcyclohexane	0.5	U	0.2	0.5	1	ug/L
71-43-2	Benzene	0.5	U	0.32	0.5	1	ug/L
107-06-2	1,2-Dichloroethane	0.5	U	0.48	0.5	1	ug/L
79-01-6	Trichloroethene	0.54	J	0.28	0.5	1	ug/L
78-87-5	1,2-Dichloropropane	0.5	U	0.46	0.5	1	ug/L
75-27-4	Bromodichloromethane	0.5	U	0.36	0.5	1	ug/L
108-10-1	4-Methyl-2-Pentanone	2.5	U	2.1	2.5	5	ug/L
108-88-3	Toluene	0.5	U	0.37	0.5	1	ug/L
10061-02-6	t-1,3-Dichloropropene	0.5	U	0.29	0.5	1	ug/L

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Report of Analysis

Client:	Impact Environmental	Date Collected:	06/21/13
Project:	Melody Cleaners	Date Received:	06/25/13
Client Sample ID:	MLW-0D	SDG No.:	E2678
Lab Sample ID:	E2678-13	Matrix:	Water
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN006742.D	1		06/27/13	VN062613

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-01-5	cis-1,3-Dichloropropene	0.5	U	0.31	0.5	1	ug/L
79-00-5	1,1,2-Trichloroethane	0.5	U	0.38	0.5	1	ug/L
591-78-6	2-Hexanone	2.5	U	1.9	2.5	5	ug/L
124-48-1	Dibromochloromethane	0.5	U	0.2	0.5	1	ug/L
106-93-4	1,2-Dibromoethane	0.5	U	0.41	0.5	1	ug/L
127-18-4	Tetrachloroethene	0.5	U	0.27	0.5	1	ug/L
108-90-7	Chlorobenzene	0.5	U	0.49	0.5	1	ug/L
100-41-4	Ethyl Benzene	0.5	U	0.2	0.5	1	ug/L
179601-23-1	m/p-Xylenes	1	U	0.95	1	2	ug/L
95-47-6	o-Xylene	0.5	U	0.43	0.5	1	ug/L
100-42-5	Styrene	0.5	U	0.36	0.5	1	ug/L
75-25-2	Bromoform	0.5	U	0.47	0.5	1	ug/L
98-82-8	Isopropylbenzene	0.5	U	0.45	0.5	1	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.5	U	0.31	0.5	1	ug/L
541-73-1	1,3-Dichlorobenzene	0.5	U	0.43	0.5	1	ug/L
106-46-7	1,4-Dichlorobenzene	0.5	U	0.32	0.5	1	ug/L
95-50-1	1,2-Dichlorobenzene	0.5	U	0.45	0.5	1	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.5	U	0.46	0.5	1	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.5	U	0.2	0.5	1	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.5	U	0.2	0.5	1	ug/L
123-91-1	1,4-Dioxane	100	U	100	100	100	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	56.9		61 - 141		114%	SPK: 50
1868-53-7	Dibromofluoromethane	47.1		69 - 133		94%	SPK: 50
2037-26-5	Toluene-d8	49.2		65 - 126		98%	SPK: 50
460-00-4	4-Bromofluorobenzene	46.2		58 - 135		92%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	333126	7.87				
540-36-3	1,4-Difluorobenzene	565750	8.79				
3114-55-4	Chlorobenzene-d5	527351	11.61				
3855-82-1	1,4-Dichlorobenzene-d4	232957	13.56				
TENTATIVE IDENTIFIED COMPOUNDS							

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Report of Analysis

Client:	Impact Environmental	Date Collected:	06/21/13
Project:	Melody Cleaners	Date Received:	06/25/13
Client Sample ID:	MLW-0D	SDG No.:	E2678
Lab Sample ID:	E2678-13	Matrix:	Water
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN006742.D	1		06/27/13	VN062613

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
109-99-9	Tetrahydrofuran	10.7	J			7.47	ug/L

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

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Report of Analysis

Client:	Impact Environmental	Date Collected:	06/21/13
Project:	Melody Cleaners	Date Received:	06/25/13
Client Sample ID:	IW-2S	SDG No.:	E2678
Lab Sample ID:	E2678-14	Matrix:	Water
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN006743.D	1		06/27/13	VN062613

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.5	U	0.2	0.5	1	ug/L
74-87-3	Chloromethane	0.5	U	0.2	0.5	1	ug/L
75-01-4	Vinyl Chloride	0.5	U	0.34	0.5	1	ug/L
74-83-9	Bromomethane	0.5	U	0.2	0.5	1	ug/L
75-00-3	Chloroethane	0.5	U	0.2	0.5	1	ug/L
75-69-4	Trichlorofluoromethane	0.5	U	0.35	0.5	1	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.5	U	0.45	0.5	1	ug/L
75-35-4	1,1-Dichloroethene	0.5	U	0.47	0.5	1	ug/L
67-64-1	Acetone	9.9		0.5	2.5	5	ug/L
75-15-0	Carbon Disulfide	0.5	U	0.2	0.5	1	ug/L
1634-04-4	Methyl tert-butyl Ether	0.5	U	0.35	0.5	1	ug/L
79-20-9	Methyl Acetate	0.5	U	0.2	0.5	1	ug/L
75-09-2	Methylene Chloride	0.5	U	0.41	0.5	1	ug/L
156-60-5	trans-1,2-Dichloroethene	0.5	U	0.41	0.5	1	ug/L
75-34-3	1,1-Dichloroethane	0.5	U	0.36	0.5	1	ug/L
110-82-7	Cyclohexane	0.5	U	0.2	0.5	1	ug/L
78-93-3	2-Butanone	5.6		1.3	2.5	5	ug/L
56-23-5	Carbon Tetrachloride	0.5	U	0.2	0.5	1	ug/L
156-59-2	cis-1,2-Dichloroethene	0.5	U	0.35	0.5	1	ug/L
74-97-5	Bromochloromethane	0.5	UQ	0.2	0.5	1	ug/L
67-66-3	Chloroform	0.5	U	0.34	0.5	1	ug/L
71-55-6	1,1,1-Trichloroethane	0.5	U	0.4	0.5	1	ug/L
108-87-2	Methylcyclohexane	0.5	U	0.2	0.5	1	ug/L
71-43-2	Benzene	0.5	U	0.32	0.5	1	ug/L
107-06-2	1,2-Dichloroethane	0.5	U	0.48	0.5	1	ug/L
79-01-6	Trichloroethene	0.5	U	0.28	0.5	1	ug/L
78-87-5	1,2-Dichloropropane	0.5	U	0.46	0.5	1	ug/L
75-27-4	Bromodichloromethane	0.5	U	0.36	0.5	1	ug/L
108-10-1	4-Methyl-2-Pentanone	2.5	U	2.1	2.5	5	ug/L
108-88-3	Toluene	0.5	U	0.37	0.5	1	ug/L
10061-02-6	t-1,3-Dichloropropene	0.5	U	0.29	0.5	1	ug/L

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Report of Analysis

Client:	Impact Environmental	Date Collected:	06/21/13
Project:	Melody Cleaners	Date Received:	06/25/13
Client Sample ID:	IW-2S	SDG No.:	E2678
Lab Sample ID:	E2678-14	Matrix:	Water
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN006743.D	1		06/27/13	VN062613

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-01-5	cis-1,3-Dichloropropene	0.5	U	0.31	0.5	1	ug/L
79-00-5	1,1,2-Trichloroethane	0.5	U	0.38	0.5	1	ug/L
591-78-6	2-Hexanone	2.5	U	1.9	2.5	5	ug/L
124-48-1	Dibromochloromethane	0.5	U	0.2	0.5	1	ug/L
106-93-4	1,2-Dibromoethane	0.5	U	0.41	0.5	1	ug/L
127-18-4	Tetrachloroethene	0.5	U	0.27	0.5	1	ug/L
108-90-7	Chlorobenzene	0.5	U	0.49	0.5	1	ug/L
100-41-4	Ethyl Benzene	0.5	U	0.2	0.5	1	ug/L
179601-23-1	m/p-Xylenes	1	U	0.95	1	2	ug/L
95-47-6	o-Xylene	0.5	U	0.43	0.5	1	ug/L
100-42-5	Styrene	0.5	U	0.36	0.5	1	ug/L
75-25-2	Bromoform	0.5	U	0.47	0.5	1	ug/L
98-82-8	Isopropylbenzene	0.5	U	0.45	0.5	1	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.5	U	0.31	0.5	1	ug/L
541-73-1	1,3-Dichlorobenzene	0.5	U	0.43	0.5	1	ug/L
106-46-7	1,4-Dichlorobenzene	0.5	U	0.32	0.5	1	ug/L
95-50-1	1,2-Dichlorobenzene	0.5	U	0.45	0.5	1	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.5	U	0.46	0.5	1	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.5	U	0.2	0.5	1	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.5	U	0.2	0.5	1	ug/L
123-91-1	1,4-Dioxane	100	U	100	100	100	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	55.8		61 - 141		112%	SPK: 50
1868-53-7	Dibromofluoromethane	47.7		69 - 133		95%	SPK: 50
2037-26-5	Toluene-d8	48.3		65 - 126		97%	SPK: 50
460-00-4	4-Bromofluorobenzene	45.5		58 - 135		91%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	342648	7.87				
540-36-3	1,4-Difluorobenzene	579527	8.79				
3114-55-4	Chlorobenzene-d5	540059	11.61				
3855-82-1	1,4-Dichlorobenzene-d4	236212	13.56				
TENTATIVE IDENTIFIED COMPOUNDS							

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Report of Analysis

Client:	Impact Environmental	Date Collected:	06/21/13
Project:	Melody Cleaners	Date Received:	06/25/13
Client Sample ID:	IW-2S	SDG No.:	E2678
Lab Sample ID:	E2678-14	Matrix:	Water
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN006743.D	1		06/27/13	VN062613

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
109-99-9	Tetrahydrofuran	10.3	J			7.46	ug/L

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

Report of Analysis

Client:	Impact Environmental	Date Collected:	06/21/13
Project:	Melody Cleaners	Date Received:	06/25/13
Client Sample ID:	IW-2D	SDG No.:	E2678
Lab Sample ID:	E2678-15	Matrix:	Water
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN006831.D	1		06/29/13	VN062913

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.5	U	0.2	0.5	1	ug/L
74-87-3	Chloromethane	0.5	U	0.2	0.5	1	ug/L
75-01-4	Vinyl Chloride	0.5	U	0.34	0.5	1	ug/L
74-83-9	Bromomethane	0.5	U	0.2	0.5	1	ug/L
75-00-3	Chloroethane	0.5	U	0.2	0.5	1	ug/L
75-69-4	Trichlorofluoromethane	0.5	U	0.35	0.5	1	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.5	U	0.45	0.5	1	ug/L
75-35-4	1,1-Dichloroethene	0.5	U	0.47	0.5	1	ug/L
67-64-1	Acetone	2.9	J	0.5	2.5	5	ug/L
75-15-0	Carbon Disulfide	0.5	U	0.2	0.5	1	ug/L
1634-04-4	Methyl tert-butyl Ether	0.5	U	0.35	0.5	1	ug/L
79-20-9	Methyl Acetate	0.5	U	0.2	0.5	1	ug/L
75-09-2	Methylene Chloride	0.5	U	0.41	0.5	1	ug/L
156-60-5	trans-1,2-Dichloroethene	0.5	U	0.41	0.5	1	ug/L
75-34-3	1,1-Dichloroethane	0.5	U	0.36	0.5	1	ug/L
110-82-7	Cyclohexane	0.5	U	0.2	0.5	1	ug/L
78-93-3	2-Butanone	4.3	J	1.3	2.5	5	ug/L
56-23-5	Carbon Tetrachloride	0.5	U	0.2	0.5	1	ug/L
156-59-2	cis-1,2-Dichloroethene	0.5	U	0.35	0.5	1	ug/L
74-97-5	Bromochloromethane	0.5	U	0.2	0.5	1	ug/L
67-66-3	Chloroform	0.5	U	0.34	0.5	1	ug/L
71-55-6	1,1,1-Trichloroethane	0.5	U	0.4	0.5	1	ug/L
108-87-2	Methylcyclohexane	0.5	U	0.2	0.5	1	ug/L
71-43-2	Benzene	0.5	U	0.32	0.5	1	ug/L
107-06-2	1,2-Dichloroethane	0.5	U	0.48	0.5	1	ug/L
79-01-6	Trichloroethene	0.41	J	0.28	0.5	1	ug/L
78-87-5	1,2-Dichloropropane	0.5	U	0.46	0.5	1	ug/L
75-27-4	Bromodichloromethane	0.5	U	0.36	0.5	1	ug/L
108-10-1	4-Methyl-2-Pentanone	2.5	U	2.1	2.5	5	ug/L
108-88-3	Toluene	0.5	U	0.37	0.5	1	ug/L
10061-02-6	t-1,3-Dichloropropene	0.5	U	0.29	0.5	1	ug/L

Report of Analysis

Client:	Impact Environmental	Date Collected:	06/21/13
Project:	Melody Cleaners	Date Received:	06/25/13
Client Sample ID:	IW-2D	SDG No.:	E2678
Lab Sample ID:	E2678-15	Matrix:	Water
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN006831.D	1		06/29/13	VN062913

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-01-5	cis-1,3-Dichloropropene	0.5	U	0.31	0.5	1	ug/L
79-00-5	1,1,2-Trichloroethane	0.5	U	0.38	0.5	1	ug/L
591-78-6	2-Hexanone	2.5	U	1.9	2.5	5	ug/L
124-48-1	Dibromochloromethane	0.5	U	0.2	0.5	1	ug/L
106-93-4	1,2-Dibromoethane	0.5	U	0.41	0.5	1	ug/L
127-18-4	Tetrachloroethene	0.5	U	0.27	0.5	1	ug/L
108-90-7	Chlorobenzene	0.5	U	0.49	0.5	1	ug/L
100-41-4	Ethyl Benzene	0.5	U	0.2	0.5	1	ug/L
179601-23-1	m/p-Xylenes	1	U	0.95	1	2	ug/L
95-47-6	o-Xylene	0.5	U	0.43	0.5	1	ug/L
100-42-5	Styrene	0.5	U	0.36	0.5	1	ug/L
75-25-2	Bromoform	0.5	U	0.47	0.5	1	ug/L
98-82-8	Isopropylbenzene	0.5	U	0.45	0.5	1	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.5	U	0.31	0.5	1	ug/L
541-73-1	1,3-Dichlorobenzene	0.5	U	0.43	0.5	1	ug/L
106-46-7	1,4-Dichlorobenzene	0.5	U	0.32	0.5	1	ug/L
95-50-1	1,2-Dichlorobenzene	0.5	U	0.45	0.5	1	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.5	U	0.46	0.5	1	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.5	U	0.2	0.5	1	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.5	U	0.2	0.5	1	ug/L
123-91-1	1,4-Dioxane	100	U	100	100	100	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	46.6		61 - 141		93%	SPK: 50
1868-53-7	Dibromofluoromethane	47.4		69 - 133		95%	SPK: 50
2037-26-5	Toluene-d8	48.9		65 - 126		98%	SPK: 50
460-00-4	4-Bromofluorobenzene	44		58 - 135		88%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	368893	7.87				
540-36-3	1,4-Difluorobenzene	612934	8.79				
3114-55-4	Chlorobenzene-d5	547728	11.61				
3855-82-1	1,4-Dichlorobenzene-d4	241605	13.56				
TENTATIVE IDENTIFIED COMPOUNDS							

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Report of Analysis

Client:	Impact Environmental	Date Collected:	06/21/13
Project:	Melody Cleaners	Date Received:	06/25/13
Client Sample ID:	IW-2D	SDG No.:	E2678
Lab Sample ID:	E2678-15	Matrix:	Water
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN006831.D	1		06/29/13	VN062913

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
109-99-9	Tetrahydrofuran	8.8	J			7.47	ug/L

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

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Report of Analysis

Client:	Impact Environmental	Date Collected:	06/21/13
Project:	Melody Cleaners	Date Received:	06/25/13
Client Sample ID:	IW-3S	SDG No.:	E2678
Lab Sample ID:	E2678-16	Matrix:	Water
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN006744.D	1		06/27/13	VN062613

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.5	U	0.2	0.5	1	ug/L
74-87-3	Chloromethane	0.5	U	0.2	0.5	1	ug/L
75-01-4	Vinyl Chloride	0.5	U	0.34	0.5	1	ug/L
74-83-9	Bromomethane	0.5	U	0.2	0.5	1	ug/L
75-00-3	Chloroethane	0.5	U	0.2	0.5	1	ug/L
75-69-4	Trichlorofluoromethane	0.5	U	0.35	0.5	1	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.5	U	0.45	0.5	1	ug/L
75-35-4	1,1-Dichloroethene	0.5	U	0.47	0.5	1	ug/L
67-64-1	Acetone	17.5		0.5	2.5	5	ug/L
75-15-0	Carbon Disulfide	0.5	U	0.2	0.5	1	ug/L
1634-04-4	Methyl tert-butyl Ether	0.5	U	0.35	0.5	1	ug/L
79-20-9	Methyl Acetate	0.5	U	0.2	0.5	1	ug/L
75-09-2	Methylene Chloride	0.5	U	0.41	0.5	1	ug/L
156-60-5	trans-1,2-Dichloroethene	0.5	U	0.41	0.5	1	ug/L
75-34-3	1,1-Dichloroethane	0.5	U	0.36	0.5	1	ug/L
110-82-7	Cyclohexane	0.5	U	0.2	0.5	1	ug/L
78-93-3	2-Butanone	5.9		1.3	2.5	5	ug/L
56-23-5	Carbon Tetrachloride	0.5	U	0.2	0.5	1	ug/L
156-59-2	cis-1,2-Dichloroethene	0.5	U	0.35	0.5	1	ug/L
74-97-5	Bromochloromethane	0.5	UQ	0.2	0.5	1	ug/L
67-66-3	Chloroform	0.5	U	0.34	0.5	1	ug/L
71-55-6	1,1,1-Trichloroethane	0.5	U	0.4	0.5	1	ug/L
108-87-2	Methylcyclohexane	0.5	U	0.2	0.5	1	ug/L
71-43-2	Benzene	0.5	U	0.32	0.5	1	ug/L
107-06-2	1,2-Dichloroethane	0.5	U	0.48	0.5	1	ug/L
79-01-6	Trichloroethene	0.5	U	0.28	0.5	1	ug/L
78-87-5	1,2-Dichloropropane	0.5	U	0.46	0.5	1	ug/L
75-27-4	Bromodichloromethane	0.5	U	0.36	0.5	1	ug/L
108-10-1	4-Methyl-2-Pentanone	2.5	U	2.1	2.5	5	ug/L
108-88-3	Toluene	0.5	U	0.37	0.5	1	ug/L
10061-02-6	t-1,3-Dichloropropene	0.5	U	0.29	0.5	1	ug/L

Report of Analysis

Client:	Impact Environmental	Date Collected:	06/21/13
Project:	Melody Cleaners	Date Received:	06/25/13
Client Sample ID:	IW-3S	SDG No.:	E2678
Lab Sample ID:	E2678-16	Matrix:	Water
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN006744.D	1		06/27/13	VN062613

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-01-5	cis-1,3-Dichloropropene	0.5	U	0.31	0.5	1	ug/L
79-00-5	1,1,2-Trichloroethane	0.5	U	0.38	0.5	1	ug/L
591-78-6	2-Hexanone	2.5	U	1.9	2.5	5	ug/L
124-48-1	Dibromochloromethane	0.5	U	0.2	0.5	1	ug/L
106-93-4	1,2-Dibromoethane	0.5	U	0.41	0.5	1	ug/L
127-18-4	Tetrachloroethene	0.5	U	0.27	0.5	1	ug/L
108-90-7	Chlorobenzene	0.5	U	0.49	0.5	1	ug/L
100-41-4	Ethyl Benzene	0.5	U	0.2	0.5	1	ug/L
179601-23-1	m/p-Xylenes	1	U	0.95	1	2	ug/L
95-47-6	o-Xylene	0.5	U	0.43	0.5	1	ug/L
100-42-5	Styrene	0.5	U	0.36	0.5	1	ug/L
75-25-2	Bromoform	0.5	U	0.47	0.5	1	ug/L
98-82-8	Isopropylbenzene	0.5	U	0.45	0.5	1	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.5	U	0.31	0.5	1	ug/L
541-73-1	1,3-Dichlorobenzene	0.5	U	0.43	0.5	1	ug/L
106-46-7	1,4-Dichlorobenzene	0.5	U	0.32	0.5	1	ug/L
95-50-1	1,2-Dichlorobenzene	0.5	U	0.45	0.5	1	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.5	U	0.46	0.5	1	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.5	U	0.2	0.5	1	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.5	U	0.2	0.5	1	ug/L
123-91-1	1,4-Dioxane	100	U	100	100	100	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	56.9		61 - 141		114%	SPK: 50
1868-53-7	Dibromofluoromethane	47.9		69 - 133		96%	SPK: 50
2037-26-5	Toluene-d8	48.1		65 - 126		96%	SPK: 50
460-00-4	4-Bromofluorobenzene	45.2		58 - 135		90%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	339773	7.87				
540-36-3	1,4-Difluorobenzene	578908	8.79				
3114-55-4	Chlorobenzene-d5	525913	11.61				
3855-82-1	1,4-Dichlorobenzene-d4	234582	13.56				
TENTATIVE IDENTIFIED COMPOUNDS							

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Report of Analysis

Client:	Impact Environmental	Date Collected:	06/21/13
Project:	Melody Cleaners	Date Received:	06/25/13
Client Sample ID:	IW-3S	SDG No.:	E2678
Lab Sample ID:	E2678-16	Matrix:	Water
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN006744.D	1		06/27/13	VN062613

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
109-99-9	Tetrahydrofuran	10.2	J			7.46	ug/L

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

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Report of Analysis

Client:	Impact Environmental	Date Collected:	06/21/13
Project:	Melody Cleaners	Date Received:	06/25/13
Client Sample ID:	IW-3D	SDG No.:	E2678
Lab Sample ID:	E2678-17	Matrix:	Water
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN006768.D	1		06/27/13	VN062713

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.5	U	0.2	0.5	1	ug/L
74-87-3	Chloromethane	0.5	U	0.2	0.5	1	ug/L
75-01-4	Vinyl Chloride	0.5	U	0.34	0.5	1	ug/L
74-83-9	Bromomethane	0.5	U	0.2	0.5	1	ug/L
75-00-3	Chloroethane	0.5	U	0.2	0.5	1	ug/L
75-69-4	Trichlorofluoromethane	0.5	U	0.35	0.5	1	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.5	U	0.45	0.5	1	ug/L
75-35-4	1,1-Dichloroethene	0.5	U	0.47	0.5	1	ug/L
67-64-1	Acetone	13.8		0.5	2.5	5	ug/L
75-15-0	Carbon Disulfide	0.5	U	0.2	0.5	1	ug/L
1634-04-4	Methyl tert-butyl Ether	0.5	U	0.35	0.5	1	ug/L
79-20-9	Methyl Acetate	0.5	U	0.2	0.5	1	ug/L
75-09-2	Methylene Chloride	0.5	U	0.41	0.5	1	ug/L
156-60-5	trans-1,2-Dichloroethene	0.5	U	0.41	0.5	1	ug/L
75-34-3	1,1-Dichloroethane	0.5	U	0.36	0.5	1	ug/L
110-82-7	Cyclohexane	0.5	U	0.2	0.5	1	ug/L
78-93-3	2-Butanone	6.4		1.3	2.5	5	ug/L
56-23-5	Carbon Tetrachloride	0.5	U	0.2	0.5	1	ug/L
156-59-2	cis-1,2-Dichloroethene	0.5	U	0.35	0.5	1	ug/L
74-97-5	Bromochloromethane	0.5	U	0.2	0.5	1	ug/L
67-66-3	Chloroform	0.55	J	0.34	0.5	1	ug/L
71-55-6	1,1,1-Trichloroethane	0.5	U	0.4	0.5	1	ug/L
108-87-2	Methylcyclohexane	0.5	U	0.2	0.5	1	ug/L
71-43-2	Benzene	0.5	U	0.32	0.5	1	ug/L
107-06-2	1,2-Dichloroethane	0.5	U	0.48	0.5	1	ug/L
79-01-6	Trichloroethene	0.5	U	0.28	0.5	1	ug/L
78-87-5	1,2-Dichloropropane	0.5	U	0.46	0.5	1	ug/L
75-27-4	Bromodichloromethane	0.5	U	0.36	0.5	1	ug/L
108-10-1	4-Methyl-2-Pentanone	2.5	U	2.1	2.5	5	ug/L
108-88-3	Toluene	0.5	U	0.37	0.5	1	ug/L
10061-02-6	t-1,3-Dichloropropene	0.5	U	0.29	0.5	1	ug/L

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Report of Analysis

Client:	Impact Environmental	Date Collected:	06/21/13
Project:	Melody Cleaners	Date Received:	06/25/13
Client Sample ID:	IW-3D	SDG No.:	E2678
Lab Sample ID:	E2678-17	Matrix:	Water
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN006768.D	1		06/27/13	VN062713

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-01-5	cis-1,3-Dichloropropene	0.5	U	0.31	0.5	1	ug/L
79-00-5	1,1,2-Trichloroethane	0.5	U	0.38	0.5	1	ug/L
591-78-6	2-Hexanone	2.5	U	1.9	2.5	5	ug/L
124-48-1	Dibromochloromethane	0.5	U	0.2	0.5	1	ug/L
106-93-4	1,2-Dibromoethane	0.5	U	0.41	0.5	1	ug/L
127-18-4	Tetrachloroethene	42.2		0.27	0.5	1	ug/L
108-90-7	Chlorobenzene	0.5	U	0.49	0.5	1	ug/L
100-41-4	Ethyl Benzene	0.5	U	0.2	0.5	1	ug/L
179601-23-1	m/p-Xylenes	1	U	0.95	1	2	ug/L
95-47-6	o-Xylene	0.5	U	0.43	0.5	1	ug/L
100-42-5	Styrene	0.5	U	0.36	0.5	1	ug/L
75-25-2	Bromoform	0.5	U	0.47	0.5	1	ug/L
98-82-8	Isopropylbenzene	0.5	U	0.45	0.5	1	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.5	U	0.31	0.5	1	ug/L
541-73-1	1,3-Dichlorobenzene	0.5	U	0.43	0.5	1	ug/L
106-46-7	1,4-Dichlorobenzene	0.5	U	0.32	0.5	1	ug/L
95-50-1	1,2-Dichlorobenzene	0.5	U	0.45	0.5	1	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.5	U	0.46	0.5	1	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.5	U	0.2	0.5	1	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.5	U	0.2	0.5	1	ug/L
123-91-1	1,4-Dioxane	100	U	100	100	100	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	59.3		61 - 141		119%	SPK: 50
1868-53-7	Dibromofluoromethane	49.9		69 - 133		100%	SPK: 50
2037-26-5	Toluene-d8	50.7		65 - 126		101%	SPK: 50
460-00-4	4-Bromofluorobenzene	46.3		58 - 135		93%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	356265	7.87				
540-36-3	1,4-Difluorobenzene	593154	8.79				
3114-55-4	Chlorobenzene-d5	530130	11.61				
3855-82-1	1,4-Dichlorobenzene-d4	233326	13.56				
TENTATIVE IDENTIFIED COMPOUNDS							

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Report of Analysis

Client:	Impact Environmental	Date Collected:	06/21/13
Project:	Melody Cleaners	Date Received:	06/25/13
Client Sample ID:	IW-3D	SDG No.:	E2678
Lab Sample ID:	E2678-17	Matrix:	Water
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN006768.D	1		06/27/13	VN062713

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
109-99-9	Tetrahydrofuran	8.9	J			7.47	ug/L

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

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Report of Analysis

Client:	Impact Environmental	Date Collected:	06/21/13
Project:	Melody Cleaners	Date Received:	06/25/13
Client Sample ID:	SW-1	SDG No.:	E2678
Lab Sample ID:	E2678-18	Matrix:	Water
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN006745.D	1		06/27/13	VN062613

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.5	U	0.2	0.5	1	ug/L
74-87-3	Chloromethane	0.5	U	0.2	0.5	1	ug/L
75-01-4	Vinyl Chloride	0.5	U	0.34	0.5	1	ug/L
74-83-9	Bromomethane	0.5	U	0.2	0.5	1	ug/L
75-00-3	Chloroethane	0.5	U	0.2	0.5	1	ug/L
75-69-4	Trichlorofluoromethane	0.5	U	0.35	0.5	1	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.5	U	0.45	0.5	1	ug/L
75-35-4	1,1-Dichloroethene	0.5	U	0.47	0.5	1	ug/L
67-64-1	Acetone	14.5		0.5	2.5	5	ug/L
75-15-0	Carbon Disulfide	0.5	U	0.2	0.5	1	ug/L
1634-04-4	Methyl tert-butyl Ether	0.5	U	0.35	0.5	1	ug/L
79-20-9	Methyl Acetate	0.5	U	0.2	0.5	1	ug/L
75-09-2	Methylene Chloride	0.5	U	0.41	0.5	1	ug/L
156-60-5	trans-1,2-Dichloroethene	0.5	U	0.41	0.5	1	ug/L
75-34-3	1,1-Dichloroethane	0.5	U	0.36	0.5	1	ug/L
110-82-7	Cyclohexane	0.5	U	0.2	0.5	1	ug/L
78-93-3	2-Butanone	5.9		1.3	2.5	5	ug/L
56-23-5	Carbon Tetrachloride	0.5	U	0.2	0.5	1	ug/L
156-59-2	cis-1,2-Dichloroethene	0.5	U	0.35	0.5	1	ug/L
74-97-5	Bromochloromethane	0.5	UQ	0.2	0.5	1	ug/L
67-66-3	Chloroform	0.5	U	0.34	0.5	1	ug/L
71-55-6	1,1,1-Trichloroethane	0.5	U	0.4	0.5	1	ug/L
108-87-2	Methylcyclohexane	0.5	U	0.2	0.5	1	ug/L
71-43-2	Benzene	0.5	U	0.32	0.5	1	ug/L
107-06-2	1,2-Dichloroethane	0.5	U	0.48	0.5	1	ug/L
79-01-6	Trichloroethene	0.5	U	0.28	0.5	1	ug/L
78-87-5	1,2-Dichloropropane	0.5	U	0.46	0.5	1	ug/L
75-27-4	Bromodichloromethane	0.5	U	0.36	0.5	1	ug/L
108-10-1	4-Methyl-2-Pentanone	2.5	U	2.1	2.5	5	ug/L
108-88-3	Toluene	0.5	U	0.37	0.5	1	ug/L
10061-02-6	t-1,3-Dichloropropene	0.5	U	0.29	0.5	1	ug/L

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Report of Analysis

Client:	Impact Environmental	Date Collected:	06/21/13
Project:	Melody Cleaners	Date Received:	06/25/13
Client Sample ID:	SW-1	SDG No.:	E2678
Lab Sample ID:	E2678-18	Matrix:	Water
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN006745.D	1		06/27/13	VN062613

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-01-5	cis-1,3-Dichloropropene	0.5	U	0.31	0.5	1	ug/L
79-00-5	1,1,2-Trichloroethane	0.5	U	0.38	0.5	1	ug/L
591-78-6	2-Hexanone	2.5	U	1.9	2.5	5	ug/L
124-48-1	Dibromochloromethane	0.5	U	0.2	0.5	1	ug/L
106-93-4	1,2-Dibromoethane	0.5	U	0.41	0.5	1	ug/L
127-18-4	Tetrachloroethene	0.5	U	0.27	0.5	1	ug/L
108-90-7	Chlorobenzene	0.5	U	0.49	0.5	1	ug/L
100-41-4	Ethyl Benzene	0.5	U	0.2	0.5	1	ug/L
179601-23-1	m/p-Xylenes	1	U	0.95	1	2	ug/L
95-47-6	o-Xylene	0.5	U	0.43	0.5	1	ug/L
100-42-5	Styrene	0.5	U	0.36	0.5	1	ug/L
75-25-2	Bromoform	0.5	U	0.47	0.5	1	ug/L
98-82-8	Isopropylbenzene	0.5	U	0.45	0.5	1	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.5	U	0.31	0.5	1	ug/L
541-73-1	1,3-Dichlorobenzene	0.5	U	0.43	0.5	1	ug/L
106-46-7	1,4-Dichlorobenzene	0.5	U	0.32	0.5	1	ug/L
95-50-1	1,2-Dichlorobenzene	0.5	U	0.45	0.5	1	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.5	U	0.46	0.5	1	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.5	U	0.2	0.5	1	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.5	U	0.2	0.5	1	ug/L
123-91-1	1,4-Dioxane	100	U	100	100	100	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	59.7		61 - 141		119%	SPK: 50
1868-53-7	Dibromofluoromethane	47.1		69 - 133		94%	SPK: 50
2037-26-5	Toluene-d8	48		65 - 126		96%	SPK: 50
460-00-4	4-Bromofluorobenzene	45.2		58 - 135		90%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	317159	7.87				
540-36-3	1,4-Difluorobenzene	551547	8.79				
3114-55-4	Chlorobenzene-d5	510372	11.61				
3855-82-1	1,4-Dichlorobenzene-d4	228570	13.56				
TENTATIVE IDENTIFIED COMPOUNDS							

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Report of Analysis

Client:	Impact Environmental	Date Collected:	06/21/13
Project:	Melody Cleaners	Date Received:	06/25/13
Client Sample ID:	SW-1	SDG No.:	E2678
Lab Sample ID:	E2678-18	Matrix:	Water
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN006745.D	1		06/27/13	VN062613

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
109-99-9	Tetrahydrofuran	9.9	J			7.46	ug/L

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

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Report of Analysis

Client:	Impact Environmental	Date Collected:	06/21/13
Project:	Melody Cleaners	Date Received:	06/25/13
Client Sample ID:	SVE-1	SDG No.:	E2678
Lab Sample ID:	E2678-19	Matrix:	Water
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN006746.D	1		06/27/13	VN062613

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.5	U	0.2	0.5	1	ug/L
74-87-3	Chloromethane	0.5	U	0.2	0.5	1	ug/L
75-01-4	Vinyl Chloride	0.5	U	0.34	0.5	1	ug/L
74-83-9	Bromomethane	0.5	U	0.2	0.5	1	ug/L
75-00-3	Chloroethane	0.5	U	0.2	0.5	1	ug/L
75-69-4	Trichlorofluoromethane	0.5	U	0.35	0.5	1	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.5	U	0.45	0.5	1	ug/L
75-35-4	1,1-Dichloroethene	0.5	U	0.47	0.5	1	ug/L
67-64-1	Acetone	12.1		0.5	2.5	5	ug/L
75-15-0	Carbon Disulfide	0.5	U	0.2	0.5	1	ug/L
1634-04-4	Methyl tert-butyl Ether	0.5	U	0.35	0.5	1	ug/L
79-20-9	Methyl Acetate	0.5	U	0.2	0.5	1	ug/L
75-09-2	Methylene Chloride	0.5	U	0.41	0.5	1	ug/L
156-60-5	trans-1,2-Dichloroethene	0.5	U	0.41	0.5	1	ug/L
75-34-3	1,1-Dichloroethane	0.5	U	0.36	0.5	1	ug/L
110-82-7	Cyclohexane	0.5	U	0.2	0.5	1	ug/L
78-93-3	2-Butanone	4.8	J	1.3	2.5	5	ug/L
56-23-5	Carbon Tetrachloride	0.5	U	0.2	0.5	1	ug/L
156-59-2	cis-1,2-Dichloroethene	0.5	U	0.35	0.5	1	ug/L
74-97-5	Bromochloromethane	0.5	UQ	0.2	0.5	1	ug/L
67-66-3	Chloroform	0.5	U	0.34	0.5	1	ug/L
71-55-6	1,1,1-Trichloroethane	0.5	U	0.4	0.5	1	ug/L
108-87-2	Methylcyclohexane	0.5	U	0.2	0.5	1	ug/L
71-43-2	Benzene	0.5	U	0.32	0.5	1	ug/L
107-06-2	1,2-Dichloroethane	0.5	U	0.48	0.5	1	ug/L
79-01-6	Trichloroethene	0.5	U	0.28	0.5	1	ug/L
78-87-5	1,2-Dichloropropane	0.5	U	0.46	0.5	1	ug/L
75-27-4	Bromodichloromethane	0.5	U	0.36	0.5	1	ug/L
108-10-1	4-Methyl-2-Pentanone	2.5	U	2.1	2.5	5	ug/L
108-88-3	Toluene	0.5	U	0.37	0.5	1	ug/L
10061-02-6	t-1,3-Dichloropropene	0.5	U	0.29	0.5	1	ug/L

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Report of Analysis

Client:	Impact Environmental	Date Collected:	06/21/13
Project:	Melody Cleaners	Date Received:	06/25/13
Client Sample ID:	SVE-1	SDG No.:	E2678
Lab Sample ID:	E2678-19	Matrix:	Water
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN006746.D	1		06/27/13	VN062613

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-01-5	cis-1,3-Dichloropropene	0.5	U	0.31	0.5	1	ug/L
79-00-5	1,1,2-Trichloroethane	0.5	U	0.38	0.5	1	ug/L
591-78-6	2-Hexanone	2.5	U	1.9	2.5	5	ug/L
124-48-1	Dibromochloromethane	0.5	U	0.2	0.5	1	ug/L
106-93-4	1,2-Dibromoethane	0.5	U	0.41	0.5	1	ug/L
127-18-4	Tetrachloroethene	0.5	U	0.27	0.5	1	ug/L
108-90-7	Chlorobenzene	0.5	U	0.49	0.5	1	ug/L
100-41-4	Ethyl Benzene	0.5	U	0.2	0.5	1	ug/L
179601-23-1	m/p-Xylenes	1	U	0.95	1	2	ug/L
95-47-6	o-Xylene	0.5	U	0.43	0.5	1	ug/L
100-42-5	Styrene	0.5	U	0.36	0.5	1	ug/L
75-25-2	Bromoform	0.5	U	0.47	0.5	1	ug/L
98-82-8	Isopropylbenzene	0.5	U	0.45	0.5	1	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.5	U	0.31	0.5	1	ug/L
541-73-1	1,3-Dichlorobenzene	0.5	U	0.43	0.5	1	ug/L
106-46-7	1,4-Dichlorobenzene	0.5	U	0.32	0.5	1	ug/L
95-50-1	1,2-Dichlorobenzene	0.5	U	0.45	0.5	1	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.5	U	0.46	0.5	1	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.5	U	0.2	0.5	1	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.5	U	0.2	0.5	1	ug/L
123-91-1	1,4-Dioxane	100	U	100	100	100	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	57		61 - 141		114%	SPK: 50
1868-53-7	Dibromofluoromethane	47.9		69 - 133		96%	SPK: 50
2037-26-5	Toluene-d8	48.9		65 - 126		98%	SPK: 50
460-00-4	4-Bromofluorobenzene	46.1		58 - 135		92%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	332446	7.87				
540-36-3	1,4-Difluorobenzene	559999	8.79				
3114-55-4	Chlorobenzene-d5	521153	11.61				
3855-82-1	1,4-Dichlorobenzene-d4	232634	13.56				
TENTATIVE IDENTIFIED COMPOUNDS							

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Report of Analysis

Client:	Impact Environmental	Date Collected:	06/21/13
Project:	Melody Cleaners	Date Received:	06/25/13
Client Sample ID:	SVE-1	SDG No.:	E2678
Lab Sample ID:	E2678-19	Matrix:	Water
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN006746.D	1		06/27/13	VN062613

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
109-99-9	Tetrahydrofuran	10.3	J			7.46	ug/L

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

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Report of Analysis

Client:	Impact Environmental	Date Collected:	06/21/13
Project:	Melody Cleaners	Date Received:	06/25/13
Client Sample ID:	SVE-2	SDG No.:	E2678
Lab Sample ID:	E2678-20	Matrix:	Water
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN006770.D	1		06/27/13	VN062713

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.5	U	0.2	0.5	1	ug/L
74-87-3	Chloromethane	0.5	U	0.2	0.5	1	ug/L
75-01-4	Vinyl Chloride	0.5	U	0.34	0.5	1	ug/L
74-83-9	Bromomethane	0.5	U	0.2	0.5	1	ug/L
75-00-3	Chloroethane	0.5	U	0.2	0.5	1	ug/L
75-69-4	Trichlorofluoromethane	0.5	U	0.35	0.5	1	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.5	U	0.45	0.5	1	ug/L
75-35-4	1,1-Dichloroethene	0.5	U	0.47	0.5	1	ug/L
67-64-1	Acetone	2.8	J	0.5	2.5	5	ug/L
75-15-0	Carbon Disulfide	0.5	U	0.2	0.5	1	ug/L
1634-04-4	Methyl tert-butyl Ether	0.5	U	0.35	0.5	1	ug/L
79-20-9	Methyl Acetate	0.5	U	0.2	0.5	1	ug/L
75-09-2	Methylene Chloride	0.5	U	0.41	0.5	1	ug/L
156-60-5	trans-1,2-Dichloroethene	0.5	U	0.41	0.5	1	ug/L
75-34-3	1,1-Dichloroethane	0.5	U	0.36	0.5	1	ug/L
110-82-7	Cyclohexane	0.5	U	0.2	0.5	1	ug/L
78-93-3	2-Butanone	2.5	U	1.3	2.5	5	ug/L
56-23-5	Carbon Tetrachloride	0.5	U	0.2	0.5	1	ug/L
156-59-2	cis-1,2-Dichloroethene	0.5	U	0.35	0.5	1	ug/L
74-97-5	Bromochloromethane	0.5	U	0.2	0.5	1	ug/L
67-66-3	Chloroform	0.7	J	0.34	0.5	1	ug/L
71-55-6	1,1,1-Trichloroethane	0.5	U	0.4	0.5	1	ug/L
108-87-2	Methylcyclohexane	0.5	U	0.2	0.5	1	ug/L
71-43-2	Benzene	0.5	U	0.32	0.5	1	ug/L
107-06-2	1,2-Dichloroethane	0.5	U	0.48	0.5	1	ug/L
79-01-6	Trichloroethene	0.5	U	0.28	0.5	1	ug/L
78-87-5	1,2-Dichloropropane	0.5	U	0.46	0.5	1	ug/L
75-27-4	Bromodichloromethane	0.5	U	0.36	0.5	1	ug/L
108-10-1	4-Methyl-2-Pentanone	2.5	U	2.1	2.5	5	ug/L
108-88-3	Toluene	0.5	U	0.37	0.5	1	ug/L
10061-02-6	t-1,3-Dichloropropene	0.5	U	0.29	0.5	1	ug/L

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Report of Analysis

Client:	Impact Environmental	Date Collected:	06/21/13
Project:	Melody Cleaners	Date Received:	06/25/13
Client Sample ID:	SVE-2	SDG No.:	E2678
Lab Sample ID:	E2678-20	Matrix:	Water
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN006770.D	1		06/27/13	VN062713

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-01-5	cis-1,3-Dichloropropene	0.5	U	0.31	0.5	1	ug/L
79-00-5	1,1,2-Trichloroethane	0.5	U	0.38	0.5	1	ug/L
591-78-6	2-Hexanone	2.5	U	1.9	2.5	5	ug/L
124-48-1	Dibromochloromethane	0.5	U	0.2	0.5	1	ug/L
106-93-4	1,2-Dibromoethane	0.5	U	0.41	0.5	1	ug/L
127-18-4	Tetrachloroethene	2.2		0.27	0.5	1	ug/L
108-90-7	Chlorobenzene	0.5	U	0.49	0.5	1	ug/L
100-41-4	Ethyl Benzene	0.5	U	0.2	0.5	1	ug/L
179601-23-1	m/p-Xylenes	1	U	0.95	1	2	ug/L
95-47-6	o-Xylene	0.5	U	0.43	0.5	1	ug/L
100-42-5	Styrene	0.5	U	0.36	0.5	1	ug/L
75-25-2	Bromoform	0.5	U	0.47	0.5	1	ug/L
98-82-8	Isopropylbenzene	0.5	U	0.45	0.5	1	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.5	U	0.31	0.5	1	ug/L
541-73-1	1,3-Dichlorobenzene	0.5	U	0.43	0.5	1	ug/L
106-46-7	1,4-Dichlorobenzene	0.5	U	0.32	0.5	1	ug/L
95-50-1	1,2-Dichlorobenzene	0.5	U	0.45	0.5	1	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.5	U	0.46	0.5	1	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.5	U	0.2	0.5	1	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.5	U	0.2	0.5	1	ug/L
123-91-1	1,4-Dioxane	100	U	100	100	100	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	59.5		61 - 141		119%	SPK: 50
1868-53-7	Dibromofluoromethane	50.4		69 - 133		101%	SPK: 50
2037-26-5	Toluene-d8	50.4		65 - 126		101%	SPK: 50
460-00-4	4-Bromofluorobenzene	46		58 - 135		92%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	351906	7.87				
540-36-3	1,4-Difluorobenzene	581272	8.79				
3114-55-4	Chlorobenzene-d5	522642	11.61				
3855-82-1	1,4-Dichlorobenzene-d4	231595	13.56				

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Report of Analysis

Client:	Impact Environmental	Date Collected:	06/21/13
Project:	Melody Cleaners	Date Received:	06/25/13
Client Sample ID:	SVE-2	SDG No.:	E2678
Lab Sample ID:	E2678-20	Matrix:	Water
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN006770.D	1		06/27/13	VN062713

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

QC SUMMARY

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Surrogate Summary

SDG No.: E2678

Client: Impact Environmental

Analytical Method: SW8260-Low

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery	Qual	Limits Low	Limits High
E2678-01	MLW-6S	1,2-Dichloroethane-d4	50	56.374	113		61	141
		Dibromofluoromethane	50	46.266	93		69	133
		Toluene-d8	50	48.484	97		65	126
		4-Bromofluorobenzene	50	46.001	92		58	135
E2678-02	MLW-7D	1,2-Dichloroethane-d4	50	56.73	113		61	141
		Dibromofluoromethane	50	48.31	97		69	133
		Toluene-d8	50	48.63	97		65	126
		4-Bromofluorobenzene	50	46.09	92		58	135
E2678-03	MLW-7I	1,2-Dichloroethane-d4	50	57.591	115		61	141
		Dibromofluoromethane	50	47.379	95		69	133
		Toluene-d8	50	48.218	96		65	126
		4-Bromofluorobenzene	50	45.788	92		58	135
E2678-04	MLW-8D	1,2-Dichloroethane-d4	50	56.1	112		61	141
		Dibromofluoromethane	50	46.93	94		69	133
		Toluene-d8	50	48.08	96		65	126
		4-Bromofluorobenzene	50	44.79	90		58	135
E2678-05	MLW-8I	1,2-Dichloroethane-d4	50	58.77	118		61	141
		Dibromofluoromethane	50	47.9	96		69	133
		Toluene-d8	50	48.15	96		65	126
		4-Bromofluorobenzene	50	44.52	89		58	135
E2678-06	MLW-8S	1,2-Dichloroethane-d4	50	58.388	117		61	141
		Dibromofluoromethane	50	47.535	95		69	133
		Toluene-d8	50	48.754	98		65	126
		4-Bromofluorobenzene	50	44.825	90		58	135
E2678-07	MLW-9D	1,2-Dichloroethane-d4	50	55.575	111		61	141
		Dibromofluoromethane	50	48.217	96		69	133
		Toluene-d8	50	49.018	98		65	126
		4-Bromofluorobenzene	50	46.207	92		58	135
E2678-08	MLW-9I	1,2-Dichloroethane-d4	50	58.44	117		61	141
		Dibromofluoromethane	50	46.88	94		69	133
		Toluene-d8	50	48.7	97		65	126
		4-Bromofluorobenzene	50	45.52	91		58	135
E2678-09	DUP-2	1,2-Dichloroethane-d4	50	57.23	114		61	141
		Dibromofluoromethane	50	47.96	96		69	133
		Toluene-d8	50	49.28	99		65	126
		4-Bromofluorobenzene	50	45.64	91		58	135
E2678-10	MLW-9S	1,2-Dichloroethane-d4	50	58.28	117		61	141
		Dibromofluoromethane	50	47.6	95		69	133
		Toluene-d8	50	48.29	97		65	126
		4-Bromofluorobenzene	50	45.02	90		58	135
E2678-11	FIELDBLANK	1,2-Dichloroethane-d4	50	56.959	114		61	141
		Dibromofluoromethane	50	46.441	93		69	133
		Toluene-d8	50	48.386	97		65	126
		4-Bromofluorobenzene	50	45.058	90		58	135
E2678-12	MLW-0I	1,2-Dichloroethane-d4	50	57.622	115		61	141
		Dibromofluoromethane	50	47.913	96		69	133
		Toluene-d8	50	48.312	97		65	126
		4-Bromofluorobenzene	50	46.252	93		58	135
E2678-13	MLW-0D	1,2-Dichloroethane-d4	50	56.894	114		61	141
		Dibromofluoromethane	50	47.129	94		69	133
		Toluene-d8	50	49.185	98		65	126
		4-Bromofluorobenzene	50	46.229	92		58	135

Surrogate Summary

SDG No.: E2678

Client: Impact Environmental

Analytical Method: SW8260-Low

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery	Qual	Limits Low	Limits High
E2678-14	IW-2S	1,2-Dichloroethane-d4	50	55.84	112		61	141
		Dibromofluoromethane	50	47.67	95		69	133
		Toluene-d8	50	48.32	97		65	126
		4-Bromofluorobenzene	50	45.49	91		58	135
E2678-15	IW-2D	1,2-Dichloroethane-d4	50	46.56	93		61	141
		Dibromofluoromethane	50	47.37	95		69	133
		Toluene-d8	50	48.94	98		65	126
		4-Bromofluorobenzene	50	43.99	88		58	135
E2678-16	IW-3S	1,2-Dichloroethane-d4	50	56.93	114		61	141
		Dibromofluoromethane	50	47.88	96		69	133
		Toluene-d8	50	48.13	96		65	126
		4-Bromofluorobenzene	50	45.22	90		58	135
E2678-17	IW-3D	1,2-Dichloroethane-d4	50	59.295	119		61	141
		Dibromofluoromethane	50	49.928	100		69	133
		Toluene-d8	50	50.681	101		65	126
		4-Bromofluorobenzene	50	46.262	93		58	135
E2678-18	SW-1	1,2-Dichloroethane-d4	50	59.69	119		61	141
		Dibromofluoromethane	50	47.11	94		69	133
		Toluene-d8	50	47.96	96		65	126
		4-Bromofluorobenzene	50	45.16	90		58	135
E2678-19	SVE-1	1,2-Dichloroethane-d4	50	57	114		61	141
		Dibromofluoromethane	50	47.88	96		69	133
		Toluene-d8	50	48.93	98		65	126
		4-Bromofluorobenzene	50	46.1	92		58	135
E2678-20	SVE-2	1,2-Dichloroethane-d4	50	59.548	119		61	141
		Dibromofluoromethane	50	50.396	101		69	133
		Toluene-d8	50	50.432	101		65	126
		4-Bromofluorobenzene	50	46.022	92		58	135
E2719-17MS	FT-GW421-0610MS	1,2-Dichloroethane-d4	50	48.76	98		70	120
		Dibromofluoromethane	50	49.34	99		85	115
		Toluene-d8	50	51.08	102		85	120
		4-Bromofluorobenzene	50	51.4	103		75	120
E2719-18MSD	FT-GW421-0610MSD	1,2-Dichloroethane-d4	50	49.25	99		70	120
		Dibromofluoromethane	50	49.82	100		85	115
		Toluene-d8	50	50.96	102		85	120
		4-Bromofluorobenzene	50	50.33	101		75	120
VN0626WBL02	VN0626WBL02	1,2-Dichloroethane-d4	50	57.028	114		61	141
		Dibromofluoromethane	50	48.014	96		69	133
		Toluene-d8	50	48.782	98		65	126
		4-Bromofluorobenzene	50	45.448	91		58	135
VN0626WBS02	VN0626WBS02	1,2-Dichloroethane-d4	50	65.283	131		61	141
		Dibromofluoromethane	50	52.766	106		69	133
		Toluene-d8	50	51.346	103		65	126
		4-Bromofluorobenzene	50	51.77	104		58	135
VN0627WBL01	VN0627WBL01	1,2-Dichloroethane-d4	50	57.81	116		70	120
		Dibromofluoromethane	50	50.357	101		85	115
		Toluene-d8	50	50.54	101		85	120
		4-Bromofluorobenzene	50	44.709	89		75	120
VN0627WBS01	VN0627WBS01	1,2-Dichloroethane-d4	50	59.738	119		70	120
		Dibromofluoromethane	50	51.1	102		85	115
		Toluene-d8	50	51.336	103		85	120
		4-Bromofluorobenzene	50	51.632	103		75	120

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Surrogate Summary

SDG No.: E2678

Client: Impact Environmental

Analytical Method: SW8260-Low

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery	Qual	Limits Low	Limits High
VN0629WBL01	VN0629WBL01	1,2-Dichloroethane-d4	50	45	90		70	120
		Dibromofluoromethane	50	47.81	96		85	115
		Toluene-d8	50	48.64	97		85	120
		4-Bromofluorobenzene	50	43.84	88		75	120
VN0629WBS01	VN0629WBS01	1,2-Dichloroethane-d4	50	45.1	90		70	120
		Dibromofluoromethane	50	47.25	94		85	115
		Toluene-d8	50	48.42	97		85	120
		4-Bromofluorobenzene	50	47.82	96		75	120

CHEMTECH

Matrix Spike/Matrix Spike Duplicate Summary
SW-846

SDG No.: E2678

Client: Impact Environmental

Analytical Method: SW8260-Low

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
Lab Sample ID : E2719-17MS	**Client Sample ID : FT-GW421-0610MS**							**Datafile :** VN006826.D			
Dichlorodifluoromethane	50	0	54.2	ug/L	108				30	155	
Chloromethane	50	0	48.7	ug/L	97				40	125	
Vinyl chloride	50	0	50	ug/L	100				50	145	
Bromomethane	50	0	50.5	ug/L	101				30	145	
Chloroethane	50	0	49.7	ug/L	99				60	135	
Trichlorofluoromethane	50	0	52.3	ug/L	105				60	145	
1,1,2-Trichlorotrifluoroethane	50	0	53.5	ug/L	107				52	142	
1,1-Dichloroethene	50	0	51.8	ug/L	104				70	130	
Acetone	250	0	220	ug/L	88				40	140	
Carbon disulfide	50	0	52.7	ug/L	105				35	160	
Methyl tert-butyl Ether	50	0	53.5	ug/L	107				65	125	
Methyl Acetate	50	0	53.2	ug/L	106				51	158	
Methylene Chloride	50	0	53.2	ug/L	106				55	140	
trans-1,2-Dichloroethene	50	0	51.6	ug/L	103				60	140	
1,1-Dichloroethane	50	0	52.6	ug/L	105				70	135	
Cyclohexane	50	0	52.8	ug/L	106				56	141	
2-Butanone	250	0	240	ug/L	96				30	150	
Carbon Tetrachloride	50	0	53.2	ug/L	106				65	140	
cis-1,2-Dichloroethene	50	0	52.9	ug/L	106				70	125	
Bromochloromethane	50	0	48.1	ug/L	96				65	130	
Chloroform	50	0	52.5	ug/L	105				65	135	
1,1,1-Trichloroethane	50	0	53	ug/L	106				65	130	
Methylcyclohexane	50	0	53.9	ug/L	108				56	137	
Benzene	50	0	51.3	ug/L	103				80	120	
1,2-Dichloroethane	50	0	50.6	ug/L	101				70	130	
Trichloroethene	50	0	51.4	ug/L	103				70	125	
1,2-Dichloropropane	50	0	49.6	ug/L	99				75	125	
Bromodichloromethane	50	0	51.6	ug/L	103				75	120	
4-Methyl-2-Pentanone	250	0	260	ug/L	104				60	135	
Toluene	50	0	53.3	ug/L	107				75	120	
t-1,3-Dichloropropene	50	0	55.2	ug/L	110				55	140	
cis-1,3-Dichloropropene	50	0	54.4	ug/L	109				70	130	
1,1,2-Trichloroethane	50	0	53.4	ug/L	107				75	125	
2-Hexanone	250	0	260	ug/L	104				55	130	
Dibromochloromethane	50	0	52	ug/L	104				60	135	
1,2-Dibromoethane	50	0	52	ug/L	104				80	120	
Tetrachloroethene	50	0	50.3	ug/L	101				45	150	
Chlorobenzene	50	0	52	ug/L	104				80	120	
Ethyl Benzene	50	0	54.4	ug/L	109				75	125	
m/p-Xylenes	100	0	110	ug/L	110				75	130	
o-Xylene	50	0	54.7	ug/L	109				80	120	
Styrene	50	0	57	ug/L	114				65	135	
Bromoform	50	0	55.9	ug/L	112				70	130	
Isopropylbenzene	50	0	54	ug/L	108				75	125	
1,1,2,2-Tetrachloroethane	50	0	52.8	ug/L	106				65	130	
1,3-Dichlorobenzene	50	0	52.8	ug/L	106				75	125	
1,4-Dichlorobenzene	50	0	51.5	ug/L	103				75	125	

CHEMTECH

Matrix Spike/Matrix Spike Duplicate Summary
SW-846

SDG No.: E2678

Client: Impact Environmental

Analytical Method: SW8260-Low

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
1,2-Dichlorobenzene	50	0	51.6	ug/L	103				70	120	
1,2-Dibromo-3-Chloropropane	50	0	56.3	ug/L	113				50	130	
1,2,4-Trichlorobenzene	50	0	54.9	ug/L	110				65	135	
1,2,3-Trichlorobenzene	50	0	54.9	ug/L	110				55	140	
1,4-Dioxane	1000	0	1100	ug/L	110				50	150	

CHEMTECH

Matrix Spike/Matrix Spike Duplicate Summary
SW-846

SDG No.: E2678

Client: Impact Environmental

Analytical Method: SW8260-Low

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
Lab Sample ID : E2719-18MSD	**Client Sample ID : FT-GW421-0610MSD**						**Datafile :** VN006827.D				
Dichlorodifluoromethane	50	0	53.2	ug/L	106		2		30	155	20
Chloromethane	50	0	46.2	ug/L	92		5		40	125	20
Vinyl chloride	50	0	49	ug/L	98		2		50	145	20
Bromomethane	50	0	51	ug/L	102		1		30	145	20
Chloroethane	50	0	50.1	ug/L	100		1		60	135	20
Trichlorofluoromethane	50	0	51.5	ug/L	103		2		60	145	20
1,1,2-Trichlorotrifluoroethane	50	0	50.7	ug/L	101		5		52	142	20
1,1-Dichloroethene	50	0	50.7	ug/L	101		2		70	130	20
Acetone	250	0	210	ug/L	84		5		40	140	20
Carbon disulfide	50	0	50.8	ug/L	102		4		35	160	20
Methyl tert-butyl Ether	50	0	51.6	ug/L	103		4		65	125	20
Methyl Acetate	50	0	52.4	ug/L	105		2		51	158	20
Methylene Chloride	50	0	51.1	ug/L	102		4		55	140	20
trans-1,2-Dichloroethene	50	0	50.9	ug/L	102		1		60	140	20
1,1-Dichloroethane	50	0	50.6	ug/L	101		4		70	135	20
Cyclohexane	50	0	50.3	ug/L	101		5		56	141	20
2-Butanone	250	0	230	ug/L	92		4		30	150	20
Carbon Tetrachloride	50	0	49.6	ug/L	99		7		65	140	20
cis-1,2-Dichloroethene	50	0	50.5	ug/L	101		5		70	125	20
Bromochloromethane	50	0	43.8	ug/L	88		9		65	130	20
Chloroform	50	0	49.8	ug/L	100		5		65	135	20
1,1,1-Trichloroethane	50	0	50.6	ug/L	101		5		65	130	20
Methylcyclohexane	50	0	50.9	ug/L	102		6		56	137	20
Benzene	50	0	48.6	ug/L	97		5		80	120	20
1,2-Dichloroethane	50	0	47.5	ug/L	95		6		70	130	20
Trichloroethene	50	0	48.6	ug/L	97		6		70	125	20
1,2-Dichloropropane	50	0	46.8	ug/L	94		6		75	125	20
Bromodichloromethane	50	0	49.1	ug/L	98		5		75	120	20
4-Methyl-2-Pentanone	250	0	250	ug/L	100		4		60	135	20
Toluene	50	0	50.4	ug/L	101		6		75	120	20
t-1,3-Dichloropropene	50	0	52.7	ug/L	105		5		55	140	20
cis-1,3-Dichloropropene	50	0	51.3	ug/L	103		6		70	130	20
1,1,2-Trichloroethane	50	0	50.5	ug/L	101		6		75	125	20
2-Hexanone	250	0	250	ug/L	100		4		55	130	20
Dibromochloromethane	50	0	50.2	ug/L	100		4		60	135	20
1,2-Dibromoethane	50	0	49.6	ug/L	99		5		80	120	20
Tetrachloroethene	50	0	47.9	ug/L	96		5		45	150	20
Chlorobenzene	50	0	49	ug/L	98		6		80	120	20
Ethyl Benzene	50	0	51.1	ug/L	102		6		75	125	20
m/p-Xylenes	100	0	100	ug/L	100		10		75	130	20
o-Xylene	50	0	51.9	ug/L	104		5		80	120	20
Styrene	50	0	53.4	ug/L	107		7		65	135	20
Bromoform	50	0	53.5	ug/L	107		4		70	130	20
Isopropylbenzene	50	0	51.3	ug/L	103		5		75	125	20
1,1,2,2-Tetrachloroethane	50	0	50.4	ug/L	101		5		65	130	20
1,3-Dichlorobenzene	50	0	49.8	ug/L	100		6		75	125	20
1,4-Dichlorobenzene	50	0	48.9	ug/L	98		5		75	125	20

CHEMTECH

Matrix Spike/Matrix Spike Duplicate Summary
SW-846

SDG No.: E2678

Client: Impact Environmental

Analytical Method: SW8260-Low

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
1,2-Dichlorobenzene	50	0	49.7	ug/L	99		4		70	120	20
1,2-Dibromo-3-Chloropropane	50	0	51.8	ug/L	104		8		50	130	20
1,2,4-Trichlorobenzene	50	0	52.5	ug/L	105		4		65	135	20
1,2,3-Trichlorobenzene	50	0	53	ug/L	106		4		55	140	20
1,4-Dioxane	1000	0	1100	ug/L	110		0		50	150	20

CHEMTECH

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary
SW-846

SDG No.: E2678

Client: Impact Environmental

Analytical Method: SW8260-Low **Datafile :** VN006733.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VN0626WBS02	Dichlorodifluoromethane	20	18.6	ug/L	93			46	139	
	Chloromethane	20	19.2	ug/L	96			58	139	
	Vinyl chloride	20	23.9	ug/L	119			65	137	
	Bromomethane	20	21.9	ug/L	110			50	162	
	Chloroethane	20	20	ug/L	100			54	160	
	Trichlorofluoromethane	20	22.1	ug/L	111			67	143	
	1,1,2-Trichlorotrifluoroethane	20	21.6	ug/L	108			71	136	
	1,1-Dichloroethene	20	19	ug/L	95			69	134	
	Acetone	100	99.1	ug/L	99			41	181	
	Carbon disulfide	20	16.7	ug/L	84			63	138	
	Methyl tert-butyl Ether	20	24.2	ug/L	121			72	136	
	Methyl Acetate	20	27	ug/L	135			51	158	
	Methylene Chloride	20	22.9	ug/L	115			67	138	
	trans-1,2-Dichloroethene	20	21.3	ug/L	106			72	132	
	1,1-Dichloroethane	20	24.3	ug/L	121			74	135	
	Cyclohexane	20	21.2	ug/L	106			67	132	
	2-Butanone	100	110	ug/L	110			64	146	
	Carbon Tetrachloride	20	20.1	ug/L	101			71	134	
	cis-1,2-Dichloroethene	20	22.3	ug/L	112			74	130	
	Bromochloromethane	20	27.9	ug/L	140		*	71	136	
	Chloroform	20	25	ug/L	125			74	134	
	1,1,1-Trichloroethane	20	24.2	ug/L	121			74	133	
	Methylcyclohexane	20	17.4	ug/L	87			71	125	
	Benzene	20	20.9	ug/L	104			75	125	
	1,2-Dichloroethane	20	24.2	ug/L	121			76	130	
	Trichloroethene	20	19.4	ug/L	97			73	127	
	1,2-Dichloropropane	20	22.4	ug/L	112			76	125	
	Bromodichloromethane	20	22.4	ug/L	112			78	127	
	4-Methyl-2-Pentanone	100	120	ug/L	120			71	140	
	Toluene	20	20.5	ug/L	103			74	125	
	t-1,3-Dichloropropene	20	20.1	ug/L	101			74	131	
	cis-1,3-Dichloropropene	20	19.7	ug/L	99			74	128	
	1,1,2-Trichloroethane	20	22.7	ug/L	114			75	129	
	2-Hexanone	100	110	ug/L	110			62	153	
	Dibromochloromethane	20	20.8	ug/L	104			74	131	
	1,2-Dibromoethane	20	20.8	ug/L	104			74	129	
	Tetrachloroethene	20	18	ug/L	90			46	157	
	Chlorobenzene	20	19.3	ug/L	97			76	123	
	Ethyl Benzene	20	20.4	ug/L	102			75	126	
	m/p-Xylenes	40	38.4	ug/L	96			74	126	
	o-Xylene	20	19.5	ug/L	98			73	127	
	Styrene	20	19.2	ug/L	96			75	126	
	Bromoform	20	18.2	ug/L	91			66	130	
	Isopropylbenzene	20	20.7	ug/L	104			70	127	
	1,1,2,2-Tetrachloroethane	20	24.8	ug/L	124			66	131	
	1,3-Dichlorobenzene	20	20.1	ug/L	101			70	125	
	1,4-Dichlorobenzene	20	20.1	ug/L	101			71	124	
	1,2-Dichlorobenzene	20	20.6	ug/L	103			71	126	
	1,2-Dibromo-3-Chloropropane	20	26.8	ug/L	134			62	134	

CHEMTECH

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary
SW-846

SDG No.: E2678

Client: Impact Environmental

Analytical Method: SW8260-Low **Datafile :** VN006733.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	Limits RPD
VN0626WBS02	1,2,4-Trichlorobenzene	20	20.2	ug/L	101			62	129	
	1,2,3-Trichlorobenzene	20	20.6	ug/L	103			58	130	
	1,4-Dioxane	400	470	ug/L	117			50	150	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary
SW-846

SDG No.: E2678

Client: Impact Environmental

Analytical Method: SW8260-Low **Datafile :** VN006757.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	Limits RPD
VN0627WBS01	Dichlorodifluoromethane	20	17.9	ug/L	90			30	155	
	Chloromethane	20	17.8	ug/L	89			40	125	
	Vinyl chloride	20	20.7	ug/L	104			50	145	
	Bromomethane	20	20	ug/L	100			30	145	
	Chloroethane	20	18.1	ug/L	91			60	135	
	Trichlorofluoromethane	20	21.1	ug/L	106			60	145	
	1,1,2-Trichlorotrifluoroethane	20	21	ug/L	105			52	142	
	1,1-Dichloroethene	20	18.3	ug/L	92			70	130	
	Acetone	100	110	ug/L	110			40	140	
	Carbon disulfide	20	15.2	ug/L	76			35	160	
	Methyl tert-butyl Ether	20	21.9	ug/L	110			65	125	
	Methyl Acetate	20	23.9	ug/L	119			51	158	
	Methylene Chloride	20	21.1	ug/L	106			55	140	
	trans-1,2-Dichloroethene	20	18.8	ug/L	94			60	140	
	1,1-Dichloroethane	20	21.8	ug/L	109			70	135	
	Cyclohexane	20	19	ug/L	95			56	141	
	2-Butanone	100	110	ug/L	110			30	150	
	Carbon Tetrachloride	20	19.5	ug/L	98			65	140	
	cis-1,2-Dichloroethene	20	20.4	ug/L	102			70	125	
	Bromochloromethane	20	25.8	ug/L	129			65	130	
	Chloroform	20	23.2	ug/L	116			65	135	
	1,1,1-Trichloroethane	20	22.5	ug/L	113			65	130	
	Methylcyclohexane	20	18.8	ug/L	94			56	137	
	Benzene	20	20.3	ug/L	102			80	120	
	1,2-Dichloroethane	20	23.8	ug/L	119			70	130	
	Trichloroethene	20	18.6	ug/L	93			70	125	
	1,2-Dichloropropane	20	22	ug/L	110			75	125	
	Bromodichloromethane	20	21.5	ug/L	108			75	120	
	4-Methyl-2-Pentanone	100	110	ug/L	110			60	135	
	Toluene	20	20.2	ug/L	101			75	120	
	t-1,3-Dichloropropene	20	21.1	ug/L	106			55	140	
	cis-1,3-Dichloropropene	20	21	ug/L	105			70	130	
	1,1,2-Trichloroethane	20	21.4	ug/L	107			75	125	
	2-Hexanone	100	110	ug/L	110			55	130	
	Dibromochloromethane	20	19.6	ug/L	98			60	135	
	1,2-Dibromoethane	20	20.1	ug/L	101			80	120	
	Tetrachloroethene	20	16.8	ug/L	84			45	150	
	Chlorobenzene	20	19.4	ug/L	97			80	120	
	Ethyl Benzene	20	20.1	ug/L	101			75	125	
	m/p-Xylenes	40	39.1	ug/L	98			75	130	
	o-Xylene	20	19.4	ug/L	97			80	120	
	Styrene	20	19.7	ug/L	99			65	135	
	Bromoform	20	17.8	ug/L	89			70	130	
	Isopropylbenzene	20	20.6	ug/L	103			75	125	
	1,1,2,2-Tetrachloroethane	20	23	ug/L	115			65	130	
	1,3-Dichlorobenzene	20	19.9	ug/L	100			75	125	
	1,4-Dichlorobenzene	20	19.4	ug/L	97			75	125	
	1,2-Dichlorobenzene	20	20.3	ug/L	102			70	120	
	1,2-Dibromo-3-Chloropropane	20	23.9	ug/L	119			50	130	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary
SW-846

SDG No.: E2678

Client: Impact Environmental

Analytical Method: SW8260-Low **Datafile :** VN006757.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	Limits RPD
VN0627WBS01	1,2,4-Trichlorobenzene	20	20.9	ug/L	104			65	135	
	1,2,3-Trichlorobenzene	20	20.6	ug/L	103			55	140	
	1,4-Dioxane	400	430	ug/L	108			50	150	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary
SW-846

SDG No.: E2678

Client: Impact Environmental

Analytical Method: SW8260-Low **Datafile :** VN006825.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	Limits RPD
VN0629WBS01	Dichlorodifluoromethane	20	20.2	ug/L	101			30	155	
	Chloromethane	20	18	ug/L	90			40	125	
	Vinyl chloride	20	18.1	ug/L	91			50	145	
	Bromomethane	20	20.9	ug/L	104			30	145	
	Chloroethane	20	18.4	ug/L	92			60	135	
	Trichlorofluoromethane	20	19.8	ug/L	99			60	145	
	1,1,2-Trichlorotrifluoroethane	20	19.7	ug/L	99			52	142	
	1,1-Dichloroethene	20	18.8	ug/L	94			70	130	
	Acetone	100	91.3	ug/L	91			40	140	
	Carbon disulfide	20	18.9	ug/L	95			35	160	
	Methyl tert-butyl Ether	20	18.7	ug/L	94			65	125	
	Methyl Acetate	20	19	ug/L	95			51	158	
	Methylene Chloride	20	19.5	ug/L	98			55	140	
	trans-1,2-Dichloroethene	20	19.1	ug/L	96			60	140	
	1,1-Dichloroethane	20	19.1	ug/L	96			70	135	
	Cyclohexane	20	18.6	ug/L	93			56	141	
	2-Butanone	100	87.9	ug/L	88			30	150	
	Carbon Tetrachloride	20	19	ug/L	95			65	140	
	cis-1,2-Dichloroethene	20	19.1	ug/L	96			70	125	
	Bromochloromethane	20	19	ug/L	95			65	130	
	Chloroform	20	19	ug/L	95			65	135	
	1,1,1-Trichloroethane	20	18.9	ug/L	95			65	130	
	Methylcyclohexane	20	21.1	ug/L	106			56	137	
	Benzene	20	19.3	ug/L	97			80	120	
	1,2-Dichloroethane	20	19.6	ug/L	98			70	130	
	Trichloroethene	20	20.2	ug/L	101			70	125	
	1,2-Dichloropropane	20	19	ug/L	95			75	125	
	Bromodichloromethane	20	19.2	ug/L	96			75	120	
	4-Methyl-2-Pentanone	100	95	ug/L	95			60	135	
	Toluene	20	19.9	ug/L	100			75	120	
	t-1,3-Dichloropropene	20	20.4	ug/L	102			55	140	
	cis-1,3-Dichloropropene	20	20.6	ug/L	103			70	130	
	1,1,2-Trichloroethane	20	19.8	ug/L	99			75	125	
	2-Hexanone	100	94.9	ug/L	95			55	130	
	Dibromochloromethane	20	19	ug/L	95			60	135	
	1,2-Dibromoethane	20	19.3	ug/L	97			80	120	
	Tetrachloroethene	20	20.2	ug/L	101			45	150	
	Chlorobenzene	20	19.9	ug/L	100			80	120	
	Ethyl Benzene	20	20.2	ug/L	101			75	125	
	m/p-Xylenes	40	40.7	ug/L	102			75	130	
	o-Xylene	20	20	ug/L	100			80	120	
	Styrene	20	20	ug/L	100			65	135	
	Bromoform	20	20.1	ug/L	101			70	130	
	Isopropylbenzene	20	20.1	ug/L	101			75	125	
	1,1,2,2-Tetrachloroethane	20	19.3	ug/L	97			65	130	
	1,3-Dichlorobenzene	20	20.1	ug/L	101			75	125	
	1,4-Dichlorobenzene	20	19.8	ug/L	99			75	125	
	1,2-Dichlorobenzene	20	19.5	ug/L	98			70	120	
	1,2-Dibromo-3-Chloropropane	20	18.8	ug/L	94			50	130	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary
SW-846

SDG No.: E2678

Client: Impact Environmental

Analytical Method: SW8260-Low **Datafile :** VN006825.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	Limits RPD
VN0629WBS01	1,2,4-Trichlorobenzene	20	21.7	ug/L	109			65	135	
	1,2,3-Trichlorobenzene	20	21.3	ug/L	106			55	140	
	1,4-Dioxane	400	390	ug/L	98			50	150	

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VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VN0626WBL02

Lab Name: CHEMTECH Contract: IMPA01

Lab Code: CHEM Case No.: E2678 SAS No.: E2678 SDG NO.: E2678

Lab File ID: VN006732.D Lab Sample ID: VN0626WBL02

Date Analyzed: 06/27/2013 Time Analyzed: 02:51

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

Instrument ID: MSVOA_N

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VN0626WBS02	VN0626WBS02	VN006733.D	06/27/2013
FIELDBLANK	E2678-11	VN006735.D	06/27/2013
MLW-6S	E2678-01	VN006736.D	06/27/2013
MLW-7D	E2678-02	VN006737.D	06/27/2013
MLW-7I	E2678-03	VN006738.D	06/27/2013
MLW-9D	E2678-07	VN006739.D	06/27/2013
MLW-8S	E2678-06	VN006740.D	06/27/2013
MLW-0I	E2678-12	VN006741.D	06/27/2013
MLW-0D	E2678-13	VN006742.D	06/27/2013
IW-2S	E2678-14	VN006743.D	06/27/2013
IW-3S	E2678-16	VN006744.D	06/27/2013
SW-1	E2678-18	VN006745.D	06/27/2013
SVE-1	E2678-19	VN006746.D	06/27/2013
DUP-2	E2678-09	VN006747.D	06/27/2013
MLW-9S	E2678-10	VN006748.D	06/27/2013
MLW-8D	E2678-04	VN006749.D	06/27/2013
MLW-8I	E2678-05	VN006751.D	06/27/2013
MLW-9I	E2678-08	VN006753.D	06/27/2013

COMMENTS:

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VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VN0627WBL01

Lab Name: CHEMTECH Contract: IMPA01

Lab Code: CHEM Case No.: E2678 SAS No.: E2678 SDG NO.: E2678

Lab File ID: VN006756.D Lab Sample ID: VN0627WBL01

Date Analyzed: 06/27/2013 Time Analyzed: 15:51

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

Instrument ID: MSVOA_N

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VN0627WBS01	VN0627WBS01	VN006757.D	06/27/2013
IW-3D	E2678-17	VN006768.D	06/27/2013
SVE-2	E2678-20	VN006770.D	06/27/2013

COMMENTS:

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VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VN0629WBL01

Lab Name: CHEMTECH Contract: IMPA01

Lab Code: CHEM Case No.: E2678 SAS No.: E2678 SDG NO.: E2678

Lab File ID: VN006824.D Lab Sample ID: VN0629WBL01

Date Analyzed: 06/29/2013 Time Analyzed: 19:16

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

Instrument ID: MSVOA_N

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VN0629WBS01	VN0629WBS01	VN006825.D	06/29/2013
FT-GW421-0610MS	E2719-17MS	VN006826.D	06/29/2013
FT-GW421-0610MSD	E2719-18MSD	VN006827.D	06/29/2013
IW-2D	E2678-15	VN006831.D	06/29/2013

COMMENTS:

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: IMPA01

Lab Code: CHEM Case No.: E2678 SAS No.: E2678 SDG NO.: E2678

Lab File ID: VN006506.D BFB Injection Date: 06/17/2013

Instrument ID: MSVOA_N BFB Injection Time: 09:06

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	16.8
75	30.0 - 60.0% of mass 95	47
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	0.8 (1) 1
174	50.0 - 100.0% of mass 95	86.5
175	5.0 - 9.0% of mass 174	6.4 (7.4) 1
176	95.0 - 101.0% of mass 174	84.5 (97.6) 1
177	5.0 - 9.0% of mass 176	5.8 (6.9) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDICC001	VSTDICC001	VN006507.D	06/17/2013	10:15
VSTDICC005	VSTDICC005	VN006508.D	06/17/2013	10:43
VSTDICC020	VSTDICC020	VN006509.D	06/17/2013	11:13
VSTDICCC050	VSTDICCC050	VN006510.D	06/17/2013	11:41
VSTDICC100	VSTDICC100	VN006511.D	06/17/2013	12:10
VSTDICC200	VSTDICC200	VN006512.D	06/17/2013	12:38

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: IMPA01

Lab Code: CHEM Case No.: E2678 SAS No.: E2678 SDG NO.: E2678

Lab File ID: VN006730.D BFB Injection Date: 06/27/2013

Instrument ID: MSVOA_N BFB Injection Time: 00:58

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	18.5
75	30.0 - 60.0% of mass 95	49.7
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	5.8
173	Less than 2.0% of mass 174	1.6 (1.9) 1
174	50.0 - 100.0% of mass 95	81.8
175	5.0 - 9.0% of mass 174	6.9 (8.4) 1
176	95.0 - 101.0% of mass 174	78.3 (95.8) 1
177	5.0 - 9.0% of mass 176	4.8 (6.1) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VN006731.D	06/27/2013	01:55
VN0626WBL02	VN0626WBL02	VN006732.D	06/27/2013	02:51
VN0626WBS02	VN0626WBS02	VN006733.D	06/27/2013	03:20
FIELDBLANK	E2678-11	VN006735.D	06/27/2013	04:16
MLW-6S	E2678-01	VN006736.D	06/27/2013	04:45
MLW-7D	E2678-02	VN006737.D	06/27/2013	05:13
MLW-7I	E2678-03	VN006738.D	06/27/2013	05:42
MLW-9D	E2678-07	VN006739.D	06/27/2013	06:10
MLW-8S	E2678-06	VN006740.D	06/27/2013	06:38
MLW-0I	E2678-12	VN006741.D	06/27/2013	07:07
MLW-0D	E2678-13	VN006742.D	06/27/2013	07:35
IW-2S	E2678-14	VN006743.D	06/27/2013	08:03
IW-3S	E2678-16	VN006744.D	06/27/2013	08:32
SW-1	E2678-18	VN006745.D	06/27/2013	09:00
SVE-1	E2678-19	VN006746.D	06/27/2013	09:29
DUP-2	E2678-09	VN006747.D	06/27/2013	09:57
MLW-9S	E2678-10	VN006748.D	06/27/2013	10:26
MLW-8D	E2678-04	VN006749.D	06/27/2013	10:54
MLW-8I	E2678-05	VN006751.D	06/27/2013	11:51
MLW-9I	E2678-08	VN006753.D	06/27/2013	12:48

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: IMPA01

Lab Code: CHEM Case No.: E2678 SAS No.: E2678 SDG NO.: E2678

Lab File ID: VN006754.D BFB Injection Date: 06/27/2013

Instrument ID: MSVOA_N BFB Injection Time: 13:33

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	17.3
75	30.0 - 60.0% of mass 95	52.6
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	1.5 (1.8) 1
174	50.0 - 100.0% of mass 95	83.1
175	5.0 - 9.0% of mass 174	5.7 (6.8) 1
176	95.0 - 101.0% of mass 174	79 (95) 1
177	5.0 - 9.0% of mass 176	4.7 (5.9) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VN006755.D	06/27/2013	14:55
VN0627WBL01	VN0627WBL01	VN006756.D	06/27/2013	15:51
VN0627WBS01	VN0627WBS01	VN006757.D	06/27/2013	16:26
IW-3D	E2678-17	VN006768.D	06/27/2013	21:37
SVE-2	E2678-20	VN006770.D	06/27/2013	22:34

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: IMPA01

Lab Code: CHEM Case No.: E2678 SAS No.: E2678 SDG NO.: E2678

Lab File ID: VN006814.D BFB Injection Date: 06/29/2013

Instrument ID: MSVOA_N BFB Injection Time: 12:24

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	17.6
75	30.0 - 60.0% of mass 95	50.7
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	7
173	Less than 2.0% of mass 174	1.1 (1.3) 1
174	50.0 - 100.0% of mass 95	82.4
175	5.0 - 9.0% of mass 174	7 (8.5) 1
176	95.0 - 101.0% of mass 174	80 (97.2) 1
177	5.0 - 9.0% of mass 176	4.2 (5.3) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDICC001	VSTDICC001	VN006815.D	06/29/2013	13:09
VSTDICC005	VSTDICC005	VN006816.D	06/29/2013	13:37
VSTDICC020	VSTDICC020	VN006817.D	06/29/2013	14:05
VSTDICCC050	VSTDICCC050	VN006818.D	06/29/2013	14:33
VSTDICC100	VSTDICC100	VN006819.D	06/29/2013	15:01
VSTDICC200	VSTDICC200	VN006820.D	06/29/2013	15:29

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: IMPA01

Lab Code: CHEM Case No.: E2678 SAS No.: E2678 SDG NO.: E2678

Lab File ID: VN006822.D BFB Injection Date: 06/29/2013

Instrument ID: MSVOA_N BFB Injection Time: 17:56

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	16.8
75	30.0 - 60.0% of mass 95	52.2
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	7.1
173	Less than 2.0% of mass 174	0.4 (0.5) 1
174	50.0 - 100.0% of mass 95	80.7
175	5.0 - 9.0% of mass 174	5.8 (7.2) 1
176	95.0 - 101.0% of mass 174	78 (96.7) 1
177	5.0 - 9.0% of mass 176	4.3 (5.5) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VN006823.D	06/29/2013	18:33
VN0629WBL01	VN0629WBL01	VN006824.D	06/29/2013	19:16
VN0629WBS01	VN0629WBS01	VN006825.D	06/29/2013	19:52
FT-GW421-0610MS	E2719-17MS	VN006826.D	06/29/2013	20:20
FT-GW421-0610MSD	E2719-18MSD	VN006827.D	06/29/2013	20:48
IW-2D	E2678-15	VN006831.D	06/29/2013	22:42

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: IMPA01

Lab Code: CHEM Case No.: E2678 SAS No.: E2678 SDG NO.: E2678

Lab File ID: VN006731.D Date Analyzed: 06/27/2013

Instrument ID: MSVOA_N Time Analyzed: 01:55

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	322184	7.87	575283	8.79	525213	11.61
UPPER LIMIT	644368	8.37	1150570	9.29	1050430	12.11
LOWER LIMIT	161092	7.37	287642	8.29	262607	11.11
EPA SAMPLE NO.						
MLW-6S	338787	7.87	581752	8.79	529493	11.61
MLW-7D	349716	7.87	595516	8.79	545183	11.61
MLW-7I	344933	7.87	587412	8.79	546062	11.61
MLW-8D	339027	7.87	567157	8.79	515147	11.61
MLW-8I	318254	7.87	549623	8.79	497119	11.61
MLW-8S	330161	7.87	572139	8.79	529718	11.61
MLW-9D	352815	7.87	593134	8.79	547032	11.61
MLW-9I	320810	7.87	544047	8.79	503448	11.61
DUP-2	339984	7.87	572384	8.79	538779	11.61
MLW-9S	327724	7.87	566191	8.79	520137	11.61
FIELDBLANK	352877	7.87	604463	8.79	549698	11.61
MLW-0I	341507	7.87	574291	8.79	532707	11.61
MLW-0D	333126	7.87	565750	8.79	527351	11.61
IW-2S	342648	7.87	579527	8.79	540059	11.61
IW-3S	339773	7.87	578908	8.79	525913	11.61
SW-1	317159	7.87	551547	8.79	510372	11.61
SVE-1	332446	7.87	559999	8.79	521153	11.61
VN0626WBL02	353226	7.87	608228	8.79	562348	11.61
VN0626WBS02	298948	7.87	540210	8.79	500454	11.61

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: IMPA01

Lab Code: CHEM Case No.: E2678 SAS No.: E2678 SDG NO.: E2678

Lab File ID: VN006731.D Date Analyzed: 06/27/2013

Instrument ID: MSVOA_N Time Analyzed: 01:55

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	322184	7.87	575283	8.79	525213	11.61
UPPER LIMIT	644368	8.37	1150570	9.29	1050430	12.11
LOWER LIMIT	161092	7.37	287642	8.29	262607	11.11
EPA SAMPLE NO.						

IS1 = Pentafluorobenzene
IS2 = 1,4-Difluorobenzene
IS3 = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: IMPA01

Lab Code: CHEM Case No.: E2678 SAS No.: E2678 SDG NO.: E2678

Lab File ID: VN006731.D Date Analyzed: 06/27/2013

Instrument ID: MSVOA_N Time Analyzed: 01:55

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT #				
12 HOUR STD	247252	13.56				
UPPER LIMIT	494504	14.06				
LOWER LIMIT	123626	13.06				
EPA SAMPLE NO.						
MLW-6S	234348	13.56				
MLW-7D	241404	13.56				
MLW-7I	241069	13.56				
MLW-8D	222768	13.56				
MLW-8I	219632	13.56				
MLW-8S	230221	13.56				
MLW-9D	244226	13.56				
MLW-9I	222424	13.56				
DUP-2	232348	13.56				
MLW-9S	230579	13.56				
FIELDBLANK	239512	13.56				
MLW-0I	234751	13.56				
MLW-0D	232957	13.56				
IW-2S	236212	13.56				
IW-3S	234582	13.56				
SW-1	228570	13.56				
SVE-1	232634	13.56				
VN0626WBL02	247347	13.56				
VN0626WBS02	233818	13.56				

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: IMPA01

Lab Code: CHEM Case No.: E2678 SAS No.: E2678 SDG NO.: E2678

Lab File ID: VN006731.D Date Analyzed: 06/27/2013

Instrument ID: MSVOA_N Time Analyzed: 01:55

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT #				
12 HOUR STD	247252	13.56				
UPPER LIMIT	494504	14.06				
LOWER LIMIT	123626	13.06				
EPA SAMPLE NO.						

IS4 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: IMPA01

Lab Code: CHEM Case No.: E2678 SAS No.: E2678 SDG NO.: E2678

Lab File ID: VN006755.D Date Analyzed: 06/27/2013

Instrument ID: MSVOA_N Time Analyzed: 14:55

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	324710	7.87	547258	8.79	504366	11.61
UPPER LIMIT	649420	8.37	1094520	9.29	1008730	12.11
LOWER LIMIT	162355	7.37	273629	8.29	252183	11.11
EPA SAMPLE NO.						
IW-3D	356265	7.87	593154	8.79	530130	11.61
SVE-2	351906	7.87	581272	8.79	522642	11.61
VN0627WBL01	407035	7.87	674676	8.79	590975	11.61
VN0627WBS01	320942	7.87	541080	8.79	496695	11.61

IS1 = Pentafluorobenzene
IS2 = 1,4-Difluorobenzene
IS3 = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: IMPA01

Lab Code: CHEM Case No.: E2678 SAS No.: E2678 SDG NO.: E2678

Lab File ID: VN006755.D Date Analyzed: 06/27/2013

Instrument ID: MSVOA_N Time Analyzed: 14:55

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT #				
12 HOUR STD	259164	13.56				
UPPER LIMIT	518328	14.06				
LOWER LIMIT	129582	13.06				
EPA SAMPLE NO.						
IW-3D	233326	13.56				
SVE-2	231595	13.56				
VN0627WBL01	249121	13.56				
VN0627WBS01	240752	13.56				

IS4 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: IMPA01

Lab Code: CHEM Case No.: E2678 SAS No.: E2678 SDG NO.: E2678

Lab File ID: VN006823.D Date Analyzed: 06/29/2013

Instrument ID: MSVOA_N Time Analyzed: 18:33

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	376045	7.87	635201	8.79	571746	11.61
UPPER LIMIT	752090	8.37	1270400	9.29	1143490	12.11
LOWER LIMIT	188023	7.37	317601	8.29	285873	11.11
EPA SAMPLE NO.						
IW-2D	368893	7.87	612934	8.79	547728	11.61
FT-GW421-0610MS	380203	7.87	667603	8.79	619079	11.61
FT-GW421-0610MSD	369943	7.87	656502	8.79	602006	11.61
VN0629WBL01	393543	7.87	649476	8.79	572946	11.61
VN0629WBS01	363349	7.87	606451	8.79	551749	11.61

IS1 = Pentafluorobenzene
IS2 = 1,4-Difluorobenzene
IS3 = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: IMPA01

Lab Code: CHEM Case No.: E2678 SAS No.: E2678 SDG NO.: E2678

Lab File ID: VN006823.D Date Analyzed: 06/29/2013

Instrument ID: MSVOA_N Time Analyzed: 18:33

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT #				
12 HOUR STD	273438	13.56				
UPPER LIMIT	546876	14.06				
LOWER LIMIT	136719	13.06				
EPA SAMPLE NO.						
IW-2D	241605	13.56				
FT-GW421-0610MS	298966	13.56				
FT-GW421-0610MSD	287078	13.56				
VN0629WBL01	243542	13.56				
VN0629WBS01	263540	13.56				

IS4 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

QC SAMPLE DATA

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	Impact Environmental	Date Collected:	
Project:	Melody Cleaners	Date Received:	
Client Sample ID:	VN0626WBL02	SDG No.:	E2678
Lab Sample ID:	VN0626WBL02	Matrix:	Water
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN006732.D	1		06/27/13	VN062613

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.5	U	0.2	0.5	1	ug/L
74-87-3	Chloromethane	0.5	U	0.2	0.5	1	ug/L
75-01-4	Vinyl Chloride	0.5	U	0.34	0.5	1	ug/L
74-83-9	Bromomethane	0.5	U	0.2	0.5	1	ug/L
75-00-3	Chloroethane	0.5	U	0.2	0.5	1	ug/L
75-69-4	Trichlorofluoromethane	0.5	U	0.35	0.5	1	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.5	U	0.45	0.5	1	ug/L
75-35-4	1,1-Dichloroethene	0.5	U	0.47	0.5	1	ug/L
67-64-1	Acetone	2.5	U	0.5	2.5	5	ug/L
75-15-0	Carbon Disulfide	0.5	U	0.2	0.5	1	ug/L
1634-04-4	Methyl tert-butyl Ether	0.5	U	0.35	0.5	1	ug/L
79-20-9	Methyl Acetate	0.5	U	0.2	0.5	1	ug/L
75-09-2	Methylene Chloride	0.5	U	0.41	0.5	1	ug/L
156-60-5	trans-1,2-Dichloroethene	0.5	U	0.41	0.5	1	ug/L
75-34-3	1,1-Dichloroethane	0.5	U	0.36	0.5	1	ug/L
110-82-7	Cyclohexane	0.5	U	0.2	0.5	1	ug/L
78-93-3	2-Butanone	2.5	U	1.3	2.5	5	ug/L
56-23-5	Carbon Tetrachloride	0.5	U	0.2	0.5	1	ug/L
156-59-2	cis-1,2-Dichloroethene	0.5	U	0.35	0.5	1	ug/L
74-97-5	Bromochloromethane	0.5	U	0.2	0.5	1	ug/L
67-66-3	Chloroform	0.5	U	0.34	0.5	1	ug/L
71-55-6	1,1,1-Trichloroethane	0.5	U	0.4	0.5	1	ug/L
108-87-2	Methylcyclohexane	0.5	U	0.2	0.5	1	ug/L
71-43-2	Benzene	0.5	U	0.32	0.5	1	ug/L
107-06-2	1,2-Dichloroethane	0.5	U	0.48	0.5	1	ug/L
79-01-6	Trichloroethene	0.5	U	0.28	0.5	1	ug/L
78-87-5	1,2-Dichloropropane	0.5	U	0.46	0.5	1	ug/L
75-27-4	Bromodichloromethane	0.5	U	0.36	0.5	1	ug/L
108-10-1	4-Methyl-2-Pentanone	2.5	U	2.1	2.5	5	ug/L
108-88-3	Toluene	0.5	U	0.37	0.5	1	ug/L
10061-02-6	t-1,3-Dichloropropene	0.5	U	0.29	0.5	1	ug/L

Report of Analysis

Client:	Impact Environmental	Date Collected:	
Project:	Melody Cleaners	Date Received:	
Client Sample ID:	VN0626WBL02	SDG No.:	E2678
Lab Sample ID:	VN0626WBL02	Matrix:	Water
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN006732.D	1		06/27/13	VN062613

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-01-5	cis-1,3-Dichloropropene	0.5	U	0.31	0.5	1	ug/L
79-00-5	1,1,2-Trichloroethane	0.5	U	0.38	0.5	1	ug/L
591-78-6	2-Hexanone	2.5	U	1.9	2.5	5	ug/L
124-48-1	Dibromochloromethane	0.5	U	0.2	0.5	1	ug/L
106-93-4	1,2-Dibromoethane	0.5	U	0.41	0.5	1	ug/L
127-18-4	Tetrachloroethene	0.5	U	0.27	0.5	1	ug/L
108-90-7	Chlorobenzene	0.5	U	0.49	0.5	1	ug/L
100-41-4	Ethyl Benzene	0.5	U	0.2	0.5	1	ug/L
179601-23-1	m/p-Xylenes	1	U	0.95	1	2	ug/L
95-47-6	o-Xylene	0.5	U	0.43	0.5	1	ug/L
100-42-5	Styrene	0.5	U	0.36	0.5	1	ug/L
75-25-2	Bromoform	0.5	U	0.47	0.5	1	ug/L
98-82-8	Isopropylbenzene	0.5	U	0.45	0.5	1	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.5	U	0.31	0.5	1	ug/L
541-73-1	1,3-Dichlorobenzene	0.5	U	0.43	0.5	1	ug/L
106-46-7	1,4-Dichlorobenzene	0.5	U	0.32	0.5	1	ug/L
95-50-1	1,2-Dichlorobenzene	0.5	U	0.45	0.5	1	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.5	U	0.46	0.5	1	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.5	U	0.2	0.5	1	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.5	U	0.2	0.5	1	ug/L
123-91-1	1,4-Dioxane	100	U	100	100	100	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	57		61 - 141		114%	SPK: 50
1868-53-7	Dibromofluoromethane	48		69 - 133		96%	SPK: 50
2037-26-5	Toluene-d8	48.8		65 - 126		98%	SPK: 50
460-00-4	4-Bromofluorobenzene	45.4		58 - 135		91%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	353226	7.87				
540-36-3	1,4-Difluorobenzene	608228	8.79				
3114-55-4	Chlorobenzene-d5	562348	11.61				
3855-82-1	1,4-Dichlorobenzene-d4	247347	13.56				

Report of Analysis

Client:	Impact Environmental	Date Collected:	
Project:	Melody Cleaners	Date Received:	
Client Sample ID:	VN0626WBL02	SDG No.:	E2678
Lab Sample ID:	VN0626WBL02	Matrix:	Water
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN006732.D	1		06/27/13	VN062613

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

Report of Analysis

Client:	Impact Environmental	Date Collected:	
Project:	Melody Cleaners	Date Received:	
Client Sample ID:	VN0627WBL01	SDG No.:	E2678
Lab Sample ID:	VN0627WBL01	Matrix:	Water
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN006756.D	1		06/27/13	VN062713

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.5	U	0.2	0.5	1	ug/L
74-87-3	Chloromethane	0.5	U	0.2	0.5	1	ug/L
75-01-4	Vinyl Chloride	0.5	U	0.34	0.5	1	ug/L
74-83-9	Bromomethane	0.5	U	0.2	0.5	1	ug/L
75-00-3	Chloroethane	0.5	U	0.2	0.5	1	ug/L
75-69-4	Trichlorofluoromethane	0.5	U	0.35	0.5	1	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.5	U	0.45	0.5	1	ug/L
75-35-4	1,1-Dichloroethene	0.5	U	0.47	0.5	1	ug/L
67-64-1	Acetone	2.5	U	0.5	2.5	5	ug/L
75-15-0	Carbon Disulfide	0.5	U	0.2	0.5	1	ug/L
1634-04-4	Methyl tert-butyl Ether	0.5	U	0.35	0.5	1	ug/L
79-20-9	Methyl Acetate	0.5	U	0.2	0.5	1	ug/L
75-09-2	Methylene Chloride	0.5	U	0.41	0.5	1	ug/L
156-60-5	trans-1,2-Dichloroethene	0.5	U	0.41	0.5	1	ug/L
75-34-3	1,1-Dichloroethane	0.5	U	0.36	0.5	1	ug/L
110-82-7	Cyclohexane	0.5	U	0.2	0.5	1	ug/L
78-93-3	2-Butanone	2.5	U	1.3	2.5	5	ug/L
56-23-5	Carbon Tetrachloride	0.5	U	0.2	0.5	1	ug/L
156-59-2	cis-1,2-Dichloroethene	0.5	U	0.35	0.5	1	ug/L
74-97-5	Bromochloromethane	0.5	U	0.2	0.5	1	ug/L
67-66-3	Chloroform	0.5	U	0.34	0.5	1	ug/L
71-55-6	1,1,1-Trichloroethane	0.5	U	0.4	0.5	1	ug/L
108-87-2	Methylcyclohexane	0.5	U	0.2	0.5	1	ug/L
71-43-2	Benzene	0.5	U	0.32	0.5	1	ug/L
107-06-2	1,2-Dichloroethane	0.5	U	0.48	0.5	1	ug/L
79-01-6	Trichloroethene	0.5	U	0.28	0.5	1	ug/L
78-87-5	1,2-Dichloropropane	0.5	U	0.46	0.5	1	ug/L
75-27-4	Bromodichloromethane	0.5	U	0.36	0.5	1	ug/L
108-10-1	4-Methyl-2-Pentanone	2.5	U	2.1	2.5	5	ug/L
108-88-3	Toluene	0.5	U	0.37	0.5	1	ug/L
10061-02-6	t-1,3-Dichloropropene	0.5	U	0.29	0.5	1	ug/L

Report of Analysis

Client:	Impact Environmental	Date Collected:	
Project:	Melody Cleaners	Date Received:	
Client Sample ID:	VN0627WBL01	SDG No.:	E2678
Lab Sample ID:	VN0627WBL01	Matrix:	Water
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN006756.D	1		06/27/13	VN062713

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-01-5	cis-1,3-Dichloropropene	0.5	U	0.31	0.5	1	ug/L
79-00-5	1,1,2-Trichloroethane	0.5	U	0.38	0.5	1	ug/L
591-78-6	2-Hexanone	2.5	U	1.9	2.5	5	ug/L
124-48-1	Dibromochloromethane	0.5	U	0.2	0.5	1	ug/L
106-93-4	1,2-Dibromoethane	0.5	U	0.41	0.5	1	ug/L
127-18-4	Tetrachloroethene	0.5	U	0.27	0.5	1	ug/L
108-90-7	Chlorobenzene	0.5	U	0.49	0.5	1	ug/L
100-41-4	Ethyl Benzene	0.5	U	0.2	0.5	1	ug/L
179601-23-1	m/p-Xylenes	1	U	0.95	1	2	ug/L
95-47-6	o-Xylene	0.5	U	0.43	0.5	1	ug/L
100-42-5	Styrene	0.5	U	0.36	0.5	1	ug/L
75-25-2	Bromoform	0.5	U	0.47	0.5	1	ug/L
98-82-8	Isopropylbenzene	0.5	U	0.45	0.5	1	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.5	U	0.31	0.5	1	ug/L
541-73-1	1,3-Dichlorobenzene	0.5	U	0.43	0.5	1	ug/L
106-46-7	1,4-Dichlorobenzene	0.5	U	0.32	0.5	1	ug/L
95-50-1	1,2-Dichlorobenzene	0.5	U	0.45	0.5	1	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.5	U	0.46	0.5	1	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.5	U	0.2	0.5	1	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.5	U	0.2	0.5	1	ug/L
123-91-1	1,4-Dioxane	100	U	100	100	100	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	57.8		70 - 120		116%	SPK: 50
1868-53-7	Dibromofluoromethane	50.4		85 - 115		101%	SPK: 50
2037-26-5	Toluene-d8	50.5		85 - 120		101%	SPK: 50
460-00-4	4-Bromofluorobenzene	44.7		75 - 120		89%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	407035	7.87				
540-36-3	1,4-Difluorobenzene	674676	8.79				
3114-55-4	Chlorobenzene-d5	590975	11.61				
3855-82-1	1,4-Dichlorobenzene-d4	249121	13.56				

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Report of Analysis

Client:	Impact Environmental	Date Collected:	
Project:	Melody Cleaners	Date Received:	
Client Sample ID:	VN0627WBL01	SDG No.:	E2678
Lab Sample ID:	VN0627WBL01	Matrix:	Water
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN006756.D	1		06/27/13	VN062713

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

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Report of Analysis

Client:	Impact Environmental	Date Collected:	
Project:	Melody Cleaners	Date Received:	
Client Sample ID:	VN0629WBL01	SDG No.:	E2678
Lab Sample ID:	VN0629WBL01	Matrix:	Water
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN006824.D	1		06/29/13	VN062913

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.5	U	0.2	0.5	1	ug/L
74-87-3	Chloromethane	0.5	U	0.2	0.5	1	ug/L
75-01-4	Vinyl Chloride	0.5	U	0.34	0.5	1	ug/L
74-83-9	Bromomethane	0.5	U	0.2	0.5	1	ug/L
75-00-3	Chloroethane	0.5	U	0.2	0.5	1	ug/L
75-69-4	Trichlorofluoromethane	0.5	U	0.35	0.5	1	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.5	U	0.45	0.5	1	ug/L
75-35-4	1,1-Dichloroethene	0.5	U	0.47	0.5	1	ug/L
67-64-1	Acetone	2.5	U	0.5	2.5	5	ug/L
75-15-0	Carbon Disulfide	0.5	U	0.2	0.5	1	ug/L
1634-04-4	Methyl tert-butyl Ether	0.5	U	0.35	0.5	1	ug/L
79-20-9	Methyl Acetate	0.5	U	0.2	0.5	1	ug/L
75-09-2	Methylene Chloride	0.5	U	0.41	0.5	1	ug/L
156-60-5	trans-1,2-Dichloroethene	0.5	U	0.41	0.5	1	ug/L
75-34-3	1,1-Dichloroethane	0.5	U	0.36	0.5	1	ug/L
110-82-7	Cyclohexane	0.5	U	0.2	0.5	1	ug/L
78-93-3	2-Butanone	2.5	U	1.3	2.5	5	ug/L
56-23-5	Carbon Tetrachloride	0.5	U	0.2	0.5	1	ug/L
156-59-2	cis-1,2-Dichloroethene	0.5	U	0.35	0.5	1	ug/L
74-97-5	Bromochloromethane	0.5	U	0.2	0.5	1	ug/L
67-66-3	Chloroform	0.5	U	0.34	0.5	1	ug/L
71-55-6	1,1,1-Trichloroethane	0.5	U	0.4	0.5	1	ug/L
108-87-2	Methylcyclohexane	0.5	U	0.2	0.5	1	ug/L
71-43-2	Benzene	0.5	U	0.32	0.5	1	ug/L
107-06-2	1,2-Dichloroethane	0.5	U	0.48	0.5	1	ug/L
79-01-6	Trichloroethene	0.5	U	0.28	0.5	1	ug/L
78-87-5	1,2-Dichloropropane	0.5	U	0.46	0.5	1	ug/L
75-27-4	Bromodichloromethane	0.5	U	0.36	0.5	1	ug/L
108-10-1	4-Methyl-2-Pentanone	2.5	U	2.1	2.5	5	ug/L
108-88-3	Toluene	0.5	U	0.37	0.5	1	ug/L
10061-02-6	t-1,3-Dichloropropene	0.5	U	0.29	0.5	1	ug/L

Report of Analysis

Client:	Impact Environmental	Date Collected:	
Project:	Melody Cleaners	Date Received:	
Client Sample ID:	VN0629WBL01	SDG No.:	E2678
Lab Sample ID:	VN0629WBL01	Matrix:	Water
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN006824.D	1		06/29/13	VN062913

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-01-5	cis-1,3-Dichloropropene	0.5	U	0.31	0.5	1	ug/L
79-00-5	1,1,2-Trichloroethane	0.5	U	0.38	0.5	1	ug/L
591-78-6	2-Hexanone	2.5	U	1.9	2.5	5	ug/L
124-48-1	Dibromochloromethane	0.5	U	0.2	0.5	1	ug/L
106-93-4	1,2-Dibromoethane	0.5	U	0.41	0.5	1	ug/L
127-18-4	Tetrachloroethene	0.5	U	0.27	0.5	1	ug/L
108-90-7	Chlorobenzene	0.5	U	0.49	0.5	1	ug/L
100-41-4	Ethyl Benzene	0.5	U	0.2	0.5	1	ug/L
179601-23-1	m/p-Xylenes	1	U	0.95	1	2	ug/L
95-47-6	o-Xylene	0.5	U	0.43	0.5	1	ug/L
100-42-5	Styrene	0.5	U	0.36	0.5	1	ug/L
75-25-2	Bromoform	0.5	U	0.47	0.5	1	ug/L
98-82-8	Isopropylbenzene	0.5	U	0.45	0.5	1	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.5	U	0.31	0.5	1	ug/L
541-73-1	1,3-Dichlorobenzene	0.5	U	0.43	0.5	1	ug/L
106-46-7	1,4-Dichlorobenzene	0.5	U	0.32	0.5	1	ug/L
95-50-1	1,2-Dichlorobenzene	0.5	U	0.45	0.5	1	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.5	U	0.46	0.5	1	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.5	U	0.2	0.5	1	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.5	U	0.2	0.5	1	ug/L
123-91-1	1,4-Dioxane	100	U	100	100	100	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	45		70 - 120		90%	SPK: 50
1868-53-7	Dibromofluoromethane	47.8		85 - 115		96%	SPK: 50
2037-26-5	Toluene-d8	48.6		85 - 120		97%	SPK: 50
460-00-4	4-Bromofluorobenzene	43.8		75 - 120		88%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	393543	7.87				
540-36-3	1,4-Difluorobenzene	649476	8.79				
3114-55-4	Chlorobenzene-d5	572946	11.61				
3855-82-1	1,4-Dichlorobenzene-d4	243542	13.56				

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Report of Analysis

Client:	Impact Environmental	Date Collected:	
Project:	Melody Cleaners	Date Received:	
Client Sample ID:	VN0629WBL01	SDG No.:	E2678
Lab Sample ID:	VN0629WBL01	Matrix:	Water
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN006824.D	1		06/29/13	VN062913

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	06/17/13
Project:	Weekly Storage Blanks	Date Received:	06/24/13
Client Sample ID:	STORAGEBLANK-WATER-REF4	SDG No.:	E2665
Lab Sample ID:	E2665-03	Matrix:	Water
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-Chemtech Full -15
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN006670.D	1		06/25/13	VN062513

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.5	U	0.2	0.5	1	ug/L
74-87-3	Chloromethane	0.5	U	0.2	0.5	1	ug/L
75-01-4	Vinyl Chloride	0.5	U	0.34	0.5	1	ug/L
141-78-6	Ethyl Acetate	0.5	U	0.2	0.5	1	ug/L
108-21-4	Isopropyl Acetate	0.5	U	0.2	0.5	1	ug/L
74-83-9	Bromomethane	0.5	U	0.2	0.5	1	ug/L
75-00-3	Chloroethane	0.5	U	0.2	0.5	1	ug/L
75-69-4	Trichlorofluoromethane	0.5	U	0.35	0.5	1	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.5	U	0.45	0.5	1	ug/L
75-65-0	Tert butyl alcohol	2.5	U	0.5	2.5	5	ug/L
60-29-7	Diethyl Ether	0.5	U	0.27	0.5	1	ug/L
75-35-4	1,1-Dichloroethene	0.5	U	0.47	0.5	1	ug/L
107-02-8	Acrolein	2.5	U	0.5	2.5	5	ug/L
107-13-1	Acrylonitrile	2.5	U	1.8	2.5	5	ug/L
67-64-1	Acetone	2.5	U	0.5	2.5	5	ug/L
75-15-0	Carbon Disulfide	0.5	U	0.2	0.5	1	ug/L
1634-04-4	Methyl tert-butyl Ether	0.5	U	0.35	0.5	1	ug/L
79-20-9	Methyl Acetate	0.5	U	0.2	0.5	1	ug/L
75-09-2	Methylene Chloride	0.5	U	0.41	0.5	1	ug/L
156-60-5	trans-1,2-Dichloroethene	0.5	U	0.41	0.5	1	ug/L
108-05-4	Vinyl Acetate	2.5	U	1.1	2.5	5	ug/L
75-34-3	1,1-Dichloroethane	0.5	U	0.36	0.5	1	ug/L
110-82-7	Cyclohexane	0.5	U	0.2	0.5	1	ug/L
78-93-3	2-Butanone	2.5	U	1.3	2.5	5	ug/L
56-23-5	Carbon Tetrachloride	0.5	U	0.2	0.5	1	ug/L
594-20-7	2,2-Dichloropropane	0.5	U	0.2	0.5	1	ug/L
156-59-2	cis-1,2-Dichloroethene	0.5	U	0.35	0.5	1	ug/L
74-97-5	Bromochloromethane	0.5	U	0.2	0.5	1	ug/L
67-66-3	Chloroform	0.5	U	0.34	0.5	1	ug/L
71-55-6	1,1,1-Trichloroethane	0.5	U	0.4	0.5	1	ug/L
108-87-2	Methylcyclohexane	0.5	U	0.2	0.5	1	ug/L

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	06/17/13
Project:	Weekly Storage Blanks	Date Received:	06/24/13
Client Sample ID:	STORAGEBLANK-WATER-REF4	SDG No.:	E2665
Lab Sample ID:	E2665-03	Matrix:	Water
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-Chemtech Full -15
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN006670.D	1		06/25/13	VN062513

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
563-58-6	1,1-Dichloropropene	0.5	U	0.39	0.5	1	ug/L
71-43-2	Benzene	0.5	U	0.32	0.5	1	ug/L
107-06-2	1,2-Dichloroethane	0.5	U	0.48	0.5	1	ug/L
79-01-6	Trichloroethene	0.5	U	0.28	0.5	1	ug/L
78-87-5	1,2-Dichloropropane	0.5	U	0.46	0.5	1	ug/L
74-95-3	Dibromomethane	0.5	U	0.44	0.5	1	ug/L
75-27-4	Bromodichloromethane	0.5	U	0.36	0.5	1	ug/L
108-10-1	4-Methyl-2-Pentanone	2.5	U	2.1	2.5	5	ug/L
108-88-3	Toluene	0.5	U	0.37	0.5	1	ug/L
10061-02-6	t-1,3-Dichloropropene	0.5	U	0.29	0.5	1	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.5	U	0.31	0.5	1	ug/L
79-00-5	1,1,2-Trichloroethane	0.5	U	0.38	0.5	1	ug/L
142-28-9	1,3-Dichloropropane	0.5	U	0.35	0.5	1	ug/L
110-75-8	2-Chloroethyl Vinyl ether	2.5	U	1.8	2.5	5	ug/L
591-78-6	2-Hexanone	2.5	U	1.9	2.5	5	ug/L
124-48-1	Dibromochloromethane	0.5	U	0.2	0.5	1	ug/L
106-93-4	1,2-Dibromoethane	0.5	U	0.41	0.5	1	ug/L
127-18-4	Tetrachloroethene	0.5	U	0.27	0.5	1	ug/L
108-90-7	Chlorobenzene	0.5	U	0.49	0.5	1	ug/L
630-20-6	1,1,1,2-Tetrachloroethane	0.5	U	0.43	0.5	1	ug/L
67-72-1	Hexachloroethane	0.5	U	0.2	0.5	1	ug/L
100-41-4	Ethyl Benzene	0.5	U	0.2	0.5	1	ug/L
179601-23-1	m/p-Xylenes	1	U	0.95	1	2	ug/L
95-47-6	o-Xylene	0.5	U	0.43	0.5	1	ug/L
100-42-5	Styrene	0.5	U	0.36	0.5	1	ug/L
75-25-2	Bromoform	0.5	U	0.47	0.5	1	ug/L
98-82-8	Isopropylbenzene	0.5	U	0.45	0.5	1	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.5	U	0.31	0.5	1	ug/L
96-18-4	1,2,3-Trichloropropane	0.5	U	0.5	0.5	1	ug/L
108-86-1	Bromobenzene	0.5	U	0.2	0.5	1	ug/L
103-65-1	n-propylbenzene	0.5	U	0.45	0.5	1	ug/L
95-49-8	2-Chlorotoluene	0.5	U	0.43	0.5	1	ug/L

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	06/17/13
Project:	Weekly Storage Blanks	Date Received:	06/24/13
Client Sample ID:	STORAGEBLANK-WATER-REF4	SDG No.:	E2665
Lab Sample ID:	E2665-03	Matrix:	Water
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-Chemtech Full -15
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN006670.D	1		06/25/13	VN062513

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
108-67-8	1,3,5-Trimethylbenzene	0.5	U	0.46	0.5	1	ug/L
106-43-4	4-Chlorotoluene	0.5	U	0.42	0.5	1	ug/L
98-06-6	tert-Butylbenzene	0.5	U	0.44	0.5	1	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.5	U	0.38	0.5	1	ug/L
135-98-8	sec-Butylbenzene	0.5	U	0.46	0.5	1	ug/L
99-87-6	p-Isopropyltoluene	0.5	U	0.43	0.5	1	ug/L
541-73-1	1,3-Dichlorobenzene	0.5	U	0.43	0.5	1	ug/L
106-46-7	1,4-Dichlorobenzene	0.5	U	0.32	0.5	1	ug/L
104-51-8	n-Butylbenzene	0.5	U	0.41	0.5	1	ug/L
95-50-1	1,2-Dichlorobenzene	0.5	U	0.45	0.5	1	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.5	U	0.46	0.5	1	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.5	U	0.2	0.5	1	ug/L
87-68-3	Hexachlorobutadiene	0.5	U	0.2	0.5	1	ug/L
91-20-3	Naphthalene	0.5	U	0.2	0.5	1	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.5	U	0.2	0.5	1	ug/L
628-63-7	N-amyl acetate	0.5	U	0.2	0.5	1	ug/L
74-88-4	Methyl Iodide	0.5	U	0.2	0.5	1	ug/L
107-05-1	Allyl chloride	0.5	U	0.2	0.5	1	ug/L
126-98-7	Methacrylonitrile	0.5	U	0.2	0.5	1	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	0.5	U	0.2	0.5	1	ug/L
97-63-2	Ethyl methacrylate	0.5	U	0.2	0.5	1	ug/L
123-91-1	1,4-Dioxane	100	U	100	100	100	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	53.1		61 - 141		106%	SPK: 50
1868-53-7	Dibromofluoromethane	46.6		69 - 133		93%	SPK: 50
2037-26-5	Toluene-d8	48.7		65 - 126		97%	SPK: 50
460-00-4	4-Bromofluorobenzene	45.3		58 - 135		91%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	320912	7.87				
540-36-3	1,4-Difluorobenzene	545253	8.79				
3114-55-4	Chlorobenzene-d5	495323	11.61				
3855-82-1	1,4-Dichlorobenzene-d4	220918	13.56				

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Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	06/17/13
Project:	Weekly Storage Blanks	Date Received:	06/24/13
Client Sample ID:	STORAGEBLANK-WATER-REF4	SDG No.:	E2665
Lab Sample ID:	E2665-03	Matrix:	Water
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-Chemtech Full -15
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN006670.D	1		06/25/13	VN062513

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

Report of Analysis

Client:	Impact Environmental	Date Collected:	
Project:	Melody Cleaners	Date Received:	
Client Sample ID:	VN0626WBS02	SDG No.:	E2678
Lab Sample ID:	VN0626WBS02	Matrix:	Water
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN006733.D	1		06/27/13	VN062613

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	18.6		0.2	0.5	1	ug/L
74-87-3	Chloromethane	19.2		0.2	0.5	1	ug/L
75-01-4	Vinyl Chloride	23.9		0.34	0.5	1	ug/L
74-83-9	Bromomethane	21.9		0.2	0.5	1	ug/L
75-00-3	Chloroethane	20		0.2	0.5	1	ug/L
75-69-4	Trichlorofluoromethane	22.1		0.35	0.5	1	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	21.6		0.45	0.5	1	ug/L
75-35-4	1,1-Dichloroethene	19		0.47	0.5	1	ug/L
67-64-1	Acetone	99.1		0.5	2.5	5	ug/L
75-15-0	Carbon Disulfide	16.7		0.2	0.5	1	ug/L
1634-04-4	Methyl tert-butyl Ether	24.2		0.35	0.5	1	ug/L
79-20-9	Methyl Acetate	27		0.2	0.5	1	ug/L
75-09-2	Methylene Chloride	22.9		0.41	0.5	1	ug/L
156-60-5	trans-1,2-Dichloroethene	21.3		0.41	0.5	1	ug/L
75-34-3	1,1-Dichloroethane	24.3		0.36	0.5	1	ug/L
110-82-7	Cyclohexane	21.2		0.2	0.5	1	ug/L
78-93-3	2-Butanone	110		1.3	2.5	5	ug/L
56-23-5	Carbon Tetrachloride	20.1		0.2	0.5	1	ug/L
156-59-2	cis-1,2-Dichloroethene	22.3		0.35	0.5	1	ug/L
74-97-5	Bromochloromethane	27.9		0.2	0.5	1	ug/L
67-66-3	Chloroform	25		0.34	0.5	1	ug/L
71-55-6	1,1,1-Trichloroethane	24.2		0.4	0.5	1	ug/L
108-87-2	Methylcyclohexane	17.4		0.2	0.5	1	ug/L
71-43-2	Benzene	20.9		0.32	0.5	1	ug/L
107-06-2	1,2-Dichloroethane	24.2		0.48	0.5	1	ug/L
79-01-6	Trichloroethene	19.4		0.28	0.5	1	ug/L
78-87-5	1,2-Dichloropropane	22.4		0.46	0.5	1	ug/L
75-27-4	Bromodichloromethane	22.4		0.36	0.5	1	ug/L
108-10-1	4-Methyl-2-Pentanone	120		2.1	2.5	5	ug/L
108-88-3	Toluene	20.5		0.37	0.5	1	ug/L
10061-02-6	t-1,3-Dichloropropene	20.1		0.29	0.5	1	ug/L

Report of Analysis

Client:	Impact Environmental	Date Collected:	
Project:	Melody Cleaners	Date Received:	
Client Sample ID:	VN0626WBS02	SDG No.:	E2678
Lab Sample ID:	VN0626WBS02	Matrix:	Water
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN006733.D	1		06/27/13	VN062613

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-01-5	cis-1,3-Dichloropropene	19.7		0.31	0.5	1	ug/L
79-00-5	1,1,2-Trichloroethane	22.7		0.38	0.5	1	ug/L
591-78-6	2-Hexanone	110		1.9	2.5	5	ug/L
124-48-1	Dibromochloromethane	20.8		0.2	0.5	1	ug/L
106-93-4	1,2-Dibromoethane	20.8		0.41	0.5	1	ug/L
127-18-4	Tetrachloroethene	18		0.27	0.5	1	ug/L
108-90-7	Chlorobenzene	19.3		0.49	0.5	1	ug/L
100-41-4	Ethyl Benzene	20.4		0.2	0.5	1	ug/L
179601-23-1	m/p-Xylenes	38.4		0.95	1	2	ug/L
95-47-6	o-Xylene	19.5		0.43	0.5	1	ug/L
100-42-5	Styrene	19.2		0.36	0.5	1	ug/L
75-25-2	Bromoform	18.2		0.47	0.5	1	ug/L
98-82-8	Isopropylbenzene	20.7		0.45	0.5	1	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	24.8		0.31	0.5	1	ug/L
541-73-1	1,3-Dichlorobenzene	20.1		0.43	0.5	1	ug/L
106-46-7	1,4-Dichlorobenzene	20.1		0.32	0.5	1	ug/L
95-50-1	1,2-Dichlorobenzene	20.6		0.45	0.5	1	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	26.8		0.46	0.5	1	ug/L
120-82-1	1,2,4-Trichlorobenzene	20.2		0.2	0.5	1	ug/L
87-61-6	1,2,3-Trichlorobenzene	20.6		0.2	0.5	1	ug/L
123-91-1	1,4-Dioxane	470		100	100	100	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	65.3		61 - 141		131%	SPK: 50
1868-53-7	Dibromofluoromethane	52.8		69 - 133		106%	SPK: 50
2037-26-5	Toluene-d8	51.3		65 - 126		103%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.8		58 - 135		104%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	298948	7.87				
540-36-3	1,4-Difluorobenzene	540210	8.79				
3114-55-4	Chlorobenzene-d5	500454	11.61				
3855-82-1	1,4-Dichlorobenzene-d4	233818	13.56				

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Report of Analysis

Client:	Impact Environmental	Date Collected:	
Project:	Melody Cleaners	Date Received:	
Client Sample ID:	VN0626WBS02	SDG No.:	E2678
Lab Sample ID:	VN0626WBS02	Matrix:	Water
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN006733.D	1		06/27/13	VN062613

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

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Report of Analysis

Client:	Impact Environmental	Date Collected:	
Project:	Melody Cleaners	Date Received:	
Client Sample ID:	VN0627WBS01	SDG No.:	E2678
Lab Sample ID:	VN0627WBS01	Matrix:	Water
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN006757.D	1		06/27/13	VN062713

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	17.9		0.2	0.5	1	ug/L
74-87-3	Chloromethane	17.8		0.2	0.5	1	ug/L
75-01-4	Vinyl Chloride	20.7		0.34	0.5	1	ug/L
74-83-9	Bromomethane	20		0.2	0.5	1	ug/L
75-00-3	Chloroethane	18.1		0.2	0.5	1	ug/L
75-69-4	Trichlorofluoromethane	21.1		0.35	0.5	1	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	21		0.45	0.5	1	ug/L
75-35-4	1,1-Dichloroethene	18.3		0.47	0.5	1	ug/L
67-64-1	Acetone	110		0.5	2.5	5	ug/L
75-15-0	Carbon Disulfide	15.2		0.2	0.5	1	ug/L
1634-04-4	Methyl tert-butyl Ether	21.9		0.35	0.5	1	ug/L
79-20-9	Methyl Acetate	23.9		0.2	0.5	1	ug/L
75-09-2	Methylene Chloride	21.1		0.41	0.5	1	ug/L
156-60-5	trans-1,2-Dichloroethene	18.8		0.41	0.5	1	ug/L
75-34-3	1,1-Dichloroethane	21.8		0.36	0.5	1	ug/L
110-82-7	Cyclohexane	19		0.2	0.5	1	ug/L
78-93-3	2-Butanone	110		1.3	2.5	5	ug/L
56-23-5	Carbon Tetrachloride	19.5		0.2	0.5	1	ug/L
156-59-2	cis-1,2-Dichloroethene	20.4		0.35	0.5	1	ug/L
74-97-5	Bromochloromethane	25.8		0.2	0.5	1	ug/L
67-66-3	Chloroform	23.2		0.34	0.5	1	ug/L
71-55-6	1,1,1-Trichloroethane	22.5		0.4	0.5	1	ug/L
108-87-2	Methylcyclohexane	18.8		0.2	0.5	1	ug/L
71-43-2	Benzene	20.3		0.32	0.5	1	ug/L
107-06-2	1,2-Dichloroethane	23.8		0.48	0.5	1	ug/L
79-01-6	Trichloroethene	18.6		0.28	0.5	1	ug/L
78-87-5	1,2-Dichloropropane	22		0.46	0.5	1	ug/L
75-27-4	Bromodichloromethane	21.5		0.36	0.5	1	ug/L
108-10-1	4-Methyl-2-Pentanone	110		2.1	2.5	5	ug/L
108-88-3	Toluene	20.2		0.37	0.5	1	ug/L
10061-02-6	t-1,3-Dichloropropene	21.1		0.29	0.5	1	ug/L

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Report of Analysis

Client:	Impact Environmental	Date Collected:	
Project:	Melody Cleaners	Date Received:	
Client Sample ID:	VN0627WBS01	SDG No.:	E2678
Lab Sample ID:	VN0627WBS01	Matrix:	Water
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN006757.D	1		06/27/13	VN062713

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-01-5	cis-1,3-Dichloropropene	21		0.31	0.5	1	ug/L
79-00-5	1,1,2-Trichloroethane	21.4		0.38	0.5	1	ug/L
591-78-6	2-Hexanone	110		1.9	2.5	5	ug/L
124-48-1	Dibromochloromethane	19.6		0.2	0.5	1	ug/L
106-93-4	1,2-Dibromoethane	20.1		0.41	0.5	1	ug/L
127-18-4	Tetrachloroethene	16.8		0.27	0.5	1	ug/L
108-90-7	Chlorobenzene	19.4		0.49	0.5	1	ug/L
100-41-4	Ethyl Benzene	20.1		0.2	0.5	1	ug/L
179601-23-1	m/p-Xylenes	39.1		0.95	1	2	ug/L
95-47-6	o-Xylene	19.4		0.43	0.5	1	ug/L
100-42-5	Styrene	19.7		0.36	0.5	1	ug/L
75-25-2	Bromoform	17.8		0.47	0.5	1	ug/L
98-82-8	Isopropylbenzene	20.6		0.45	0.5	1	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	23		0.31	0.5	1	ug/L
541-73-1	1,3-Dichlorobenzene	19.9		0.43	0.5	1	ug/L
106-46-7	1,4-Dichlorobenzene	19.4		0.32	0.5	1	ug/L
95-50-1	1,2-Dichlorobenzene	20.3		0.45	0.5	1	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	23.9		0.46	0.5	1	ug/L
120-82-1	1,2,4-Trichlorobenzene	20.9		0.2	0.5	1	ug/L
87-61-6	1,2,3-Trichlorobenzene	20.6		0.2	0.5	1	ug/L
123-91-1	1,4-Dioxane	430		100	100	100	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	59.7		70 - 120		119%	SPK: 50
1868-53-7	Dibromofluoromethane	51.1		85 - 115		102%	SPK: 50
2037-26-5	Toluene-d8	51.3		85 - 120		103%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.6		75 - 120		103%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	320942	7.87				
540-36-3	1,4-Difluorobenzene	541080	8.79				
3114-55-4	Chlorobenzene-d5	496695	11.61				
3855-82-1	1,4-Dichlorobenzene-d4	240752	13.56				

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Report of Analysis

Client:	Impact Environmental	Date Collected:	
Project:	Melody Cleaners	Date Received:	
Client Sample ID:	VN0627WBS01	SDG No.:	E2678
Lab Sample ID:	VN0627WBS01	Matrix:	Water
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN006757.D	1		06/27/13	VN062713

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

Report of Analysis

Client:	Impact Environmental	Date Collected:	
Project:	Melody Cleaners	Date Received:	
Client Sample ID:	VN0629WBS01	SDG No.:	E2678
Lab Sample ID:	VN0629WBS01	Matrix:	Water
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN006825.D	1		06/29/13	VN062913

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	20.2		0.2	0.5	1	ug/L
74-87-3	Chloromethane	18		0.2	0.5	1	ug/L
75-01-4	Vinyl Chloride	18.1		0.34	0.5	1	ug/L
74-83-9	Bromomethane	20.9		0.2	0.5	1	ug/L
75-00-3	Chloroethane	18.4		0.2	0.5	1	ug/L
75-69-4	Trichlorofluoromethane	19.8		0.35	0.5	1	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	19.7		0.45	0.5	1	ug/L
75-35-4	1,1-Dichloroethene	18.8		0.47	0.5	1	ug/L
67-64-1	Acetone	91.3		0.5	2.5	5	ug/L
75-15-0	Carbon Disulfide	18.9		0.2	0.5	1	ug/L
1634-04-4	Methyl tert-butyl Ether	18.7		0.35	0.5	1	ug/L
79-20-9	Methyl Acetate	19		0.2	0.5	1	ug/L
75-09-2	Methylene Chloride	19.5		0.41	0.5	1	ug/L
156-60-5	trans-1,2-Dichloroethene	19.1		0.41	0.5	1	ug/L
75-34-3	1,1-Dichloroethane	19.1		0.36	0.5	1	ug/L
110-82-7	Cyclohexane	18.6		0.2	0.5	1	ug/L
78-93-3	2-Butanone	87.9		1.3	2.5	5	ug/L
56-23-5	Carbon Tetrachloride	19		0.2	0.5	1	ug/L
156-59-2	cis-1,2-Dichloroethene	19.1		0.35	0.5	1	ug/L
74-97-5	Bromochloromethane	19		0.2	0.5	1	ug/L
67-66-3	Chloroform	19		0.34	0.5	1	ug/L
71-55-6	1,1,1-Trichloroethane	18.9		0.4	0.5	1	ug/L
108-87-2	Methylcyclohexane	21.1		0.2	0.5	1	ug/L
71-43-2	Benzene	19.3		0.32	0.5	1	ug/L
107-06-2	1,2-Dichloroethane	19.6		0.48	0.5	1	ug/L
79-01-6	Trichloroethene	20.2		0.28	0.5	1	ug/L
78-87-5	1,2-Dichloropropane	19		0.46	0.5	1	ug/L
75-27-4	Bromodichloromethane	19.2		0.36	0.5	1	ug/L
108-10-1	4-Methyl-2-Pentanone	95		2.1	2.5	5	ug/L
108-88-3	Toluene	19.9		0.37	0.5	1	ug/L
10061-02-6	t-1,3-Dichloropropene	20.4		0.29	0.5	1	ug/L

Report of Analysis

Client:	Impact Environmental	Date Collected:	
Project:	Melody Cleaners	Date Received:	
Client Sample ID:	VN0629WBS01	SDG No.:	E2678
Lab Sample ID:	VN0629WBS01	Matrix:	Water
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN006825.D	1		06/29/13	VN062913

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-01-5	cis-1,3-Dichloropropene	20.6		0.31	0.5	1	ug/L
79-00-5	1,1,2-Trichloroethane	19.8		0.38	0.5	1	ug/L
591-78-6	2-Hexanone	94.9		1.9	2.5	5	ug/L
124-48-1	Dibromochloromethane	19		0.2	0.5	1	ug/L
106-93-4	1,2-Dibromoethane	19.3		0.41	0.5	1	ug/L
127-18-4	Tetrachloroethene	20.2		0.27	0.5	1	ug/L
108-90-7	Chlorobenzene	19.9		0.49	0.5	1	ug/L
100-41-4	Ethyl Benzene	20.2		0.2	0.5	1	ug/L
179601-23-1	m/p-Xylenes	40.7		0.95	1	2	ug/L
95-47-6	o-Xylene	20		0.43	0.5	1	ug/L
100-42-5	Styrene	20		0.36	0.5	1	ug/L
75-25-2	Bromoform	20.1		0.47	0.5	1	ug/L
98-82-8	Isopropylbenzene	20.1		0.45	0.5	1	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	19.3		0.31	0.5	1	ug/L
541-73-1	1,3-Dichlorobenzene	20.1		0.43	0.5	1	ug/L
106-46-7	1,4-Dichlorobenzene	19.8		0.32	0.5	1	ug/L
95-50-1	1,2-Dichlorobenzene	19.5		0.45	0.5	1	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	18.8		0.46	0.5	1	ug/L
120-82-1	1,2,4-Trichlorobenzene	21.7		0.2	0.5	1	ug/L
87-61-6	1,2,3-Trichlorobenzene	21.3		0.2	0.5	1	ug/L
123-91-1	1,4-Dioxane	390		100	100	100	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	45.1		70 - 120		90%	SPK: 50
1868-53-7	Dibromofluoromethane	47.3		85 - 115		94%	SPK: 50
2037-26-5	Toluene-d8	48.4		85 - 120		97%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.8		75 - 120		96%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	363349	7.87				
540-36-3	1,4-Difluorobenzene	606451	8.79				
3114-55-4	Chlorobenzene-d5	551749	11.61				
3855-82-1	1,4-Dichlorobenzene-d4	263540	13.56				

Report of Analysis

Client:	Impact Environmental	Date Collected:	
Project:	Melody Cleaners	Date Received:	
Client Sample ID:	VN0629WBS01	SDG No.:	E2678
Lab Sample ID:	VN0629WBS01	Matrix:	Water
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN006825.D	1		06/29/13	VN062913

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

Report of Analysis

Client:	Impact Environmental	Date Collected:	06/26/13
Project:	Melody Cleaners	Date Received:	06/27/13
Client Sample ID:	FT-GW421-0610MS	SDG No.:	E2678
Lab Sample ID:	E2719-17MS	Matrix:	Water
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN006826.D	1		06/29/13	VN062913

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	54.2		0.2	0.5	1	ug/L
74-87-3	Chloromethane	48.7		0.2	0.5	1	ug/L
75-01-4	Vinyl Chloride	50		0.34	0.5	1	ug/L
74-83-9	Bromomethane	50.5		0.2	0.5	1	ug/L
75-00-3	Chloroethane	49.7		0.2	0.5	1	ug/L
75-69-4	Trichlorofluoromethane	52.3		0.35	0.5	1	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	53.5		0.45	0.5	1	ug/L
75-35-4	1,1-Dichloroethene	51.8		0.47	0.5	1	ug/L
67-64-1	Acetone	220		0.5	2.5	5	ug/L
75-15-0	Carbon Disulfide	52.7		0.2	0.5	1	ug/L
1634-04-4	Methyl tert-butyl Ether	53.5		0.35	0.5	1	ug/L
79-20-9	Methyl Acetate	53.2		0.2	0.5	1	ug/L
75-09-2	Methylene Chloride	53.2		0.41	0.5	1	ug/L
156-60-5	trans-1,2-Dichloroethene	51.6		0.41	0.5	1	ug/L
75-34-3	1,1-Dichloroethane	52.6		0.36	0.5	1	ug/L
110-82-7	Cyclohexane	52.8		0.2	0.5	1	ug/L
78-93-3	2-Butanone	240		1.3	2.5	5	ug/L
56-23-5	Carbon Tetrachloride	53.2		0.2	0.5	1	ug/L
156-59-2	cis-1,2-Dichloroethene	52.9		0.35	0.5	1	ug/L
74-97-5	Bromochloromethane	48.1		0.2	0.5	1	ug/L
67-66-3	Chloroform	52.5		0.34	0.5	1	ug/L
71-55-6	1,1,1-Trichloroethane	53		0.4	0.5	1	ug/L
108-87-2	Methylcyclohexane	53.9		0.2	0.5	1	ug/L
71-43-2	Benzene	51.3		0.32	0.5	1	ug/L
107-06-2	1,2-Dichloroethane	50.6		0.48	0.5	1	ug/L
79-01-6	Trichloroethene	51.4		0.28	0.5	1	ug/L
78-87-5	1,2-Dichloropropane	49.6		0.46	0.5	1	ug/L
75-27-4	Bromodichloromethane	51.6		0.36	0.5	1	ug/L
108-10-1	4-Methyl-2-Pentanone	260		2.1	2.5	5	ug/L
108-88-3	Toluene	53.3		0.37	0.5	1	ug/L
10061-02-6	t-1,3-Dichloropropene	55.2		0.29	0.5	1	ug/L

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Report of Analysis

Client:	Impact Environmental	Date Collected:	06/26/13
Project:	Melody Cleaners	Date Received:	06/27/13
Client Sample ID:	FT-GW421-0610MS	SDG No.:	E2678
Lab Sample ID:	E2719-17MS	Matrix:	Water
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN006826.D	1		06/29/13	VN062913

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-01-5	cis-1,3-Dichloropropene	54.4		0.31	0.5	1	ug/L
79-00-5	1,1,2-Trichloroethane	53.4		0.38	0.5	1	ug/L
591-78-6	2-Hexanone	260		1.9	2.5	5	ug/L
124-48-1	Dibromochloromethane	52		0.2	0.5	1	ug/L
106-93-4	1,2-Dibromoethane	52		0.41	0.5	1	ug/L
127-18-4	Tetrachloroethene	50.3		0.27	0.5	1	ug/L
108-90-7	Chlorobenzene	52		0.49	0.5	1	ug/L
100-41-4	Ethyl Benzene	54.4		0.2	0.5	1	ug/L
179601-23-1	m/p-Xylenes	110		0.95	1	2	ug/L
95-47-6	o-Xylene	54.7		0.43	0.5	1	ug/L
100-42-5	Styrene	57		0.36	0.5	1	ug/L
75-25-2	Bromoform	55.9		0.47	0.5	1	ug/L
98-82-8	Isopropylbenzene	54		0.45	0.5	1	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	52.8		0.31	0.5	1	ug/L
541-73-1	1,3-Dichlorobenzene	52.8		0.43	0.5	1	ug/L
106-46-7	1,4-Dichlorobenzene	51.5		0.32	0.5	1	ug/L
95-50-1	1,2-Dichlorobenzene	51.6		0.45	0.5	1	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	56.3		0.46	0.5	1	ug/L
120-82-1	1,2,4-Trichlorobenzene	54.9		0.2	0.5	1	ug/L
87-61-6	1,2,3-Trichlorobenzene	54.9		0.2	0.5	1	ug/L
123-91-1	1,4-Dioxane	1100		100	100	100	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	48.8		70 - 120		98%	SPK: 50
1868-53-7	Dibromofluoromethane	49.3		85 - 115		99%	SPK: 50
2037-26-5	Toluene-d8	51.1		85 - 120		102%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.4		75 - 120		103%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	380203	7.87				
540-36-3	1,4-Difluorobenzene	667603	8.79				
3114-55-4	Chlorobenzene-d5	619079	11.61				
3855-82-1	1,4-Dichlorobenzene-d4	298966	13.56				

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Report of Analysis

Client:	Impact Environmental	Date Collected:	06/26/13
Project:	Melody Cleaners	Date Received:	06/27/13
Client Sample ID:	FT-GW421-0610MS	SDG No.:	E2678
Lab Sample ID:	E2719-17MS	Matrix:	Water
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN006826.D	1		06/29/13	VN062913

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

Report of Analysis

Client:	Impact Environmental	Date Collected:	06/26/13
Project:	Melody Cleaners	Date Received:	06/27/13
Client Sample ID:	FT-GW421-0610MSD	SDG No.:	E2678
Lab Sample ID:	E2719-18MSD	Matrix:	Water
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN006827.D	1		06/29/13	VN062913

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	53.2		0.2	0.5	1	ug/L
74-87-3	Chloromethane	46.2		0.2	0.5	1	ug/L
75-01-4	Vinyl Chloride	49		0.34	0.5	1	ug/L
74-83-9	Bromomethane	51		0.2	0.5	1	ug/L
75-00-3	Chloroethane	50.1		0.2	0.5	1	ug/L
75-69-4	Trichlorofluoromethane	51.5		0.35	0.5	1	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	50.7		0.45	0.5	1	ug/L
75-35-4	1,1-Dichloroethene	50.7		0.47	0.5	1	ug/L
67-64-1	Acetone	210		0.5	2.5	5	ug/L
75-15-0	Carbon Disulfide	50.8		0.2	0.5	1	ug/L
1634-04-4	Methyl tert-butyl Ether	51.6		0.35	0.5	1	ug/L
79-20-9	Methyl Acetate	52.4		0.2	0.5	1	ug/L
75-09-2	Methylene Chloride	51.1		0.41	0.5	1	ug/L
156-60-5	trans-1,2-Dichloroethene	50.9		0.41	0.5	1	ug/L
75-34-3	1,1-Dichloroethane	50.6		0.36	0.5	1	ug/L
110-82-7	Cyclohexane	50.3		0.2	0.5	1	ug/L
78-93-3	2-Butanone	230		1.3	2.5	5	ug/L
56-23-5	Carbon Tetrachloride	49.6		0.2	0.5	1	ug/L
156-59-2	cis-1,2-Dichloroethene	50.5		0.35	0.5	1	ug/L
74-97-5	Bromochloromethane	43.8		0.2	0.5	1	ug/L
67-66-3	Chloroform	49.8		0.34	0.5	1	ug/L
71-55-6	1,1,1-Trichloroethane	50.6		0.4	0.5	1	ug/L
108-87-2	Methylcyclohexane	50.9		0.2	0.5	1	ug/L
71-43-2	Benzene	48.6		0.32	0.5	1	ug/L
107-06-2	1,2-Dichloroethane	47.5		0.48	0.5	1	ug/L
79-01-6	Trichloroethene	48.6		0.28	0.5	1	ug/L
78-87-5	1,2-Dichloropropane	46.8		0.46	0.5	1	ug/L
75-27-4	Bromodichloromethane	49.1		0.36	0.5	1	ug/L
108-10-1	4-Methyl-2-Pentanone	250		2.1	2.5	5	ug/L
108-88-3	Toluene	50.4		0.37	0.5	1	ug/L
10061-02-6	t-1,3-Dichloropropene	52.7		0.29	0.5	1	ug/L

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Report of Analysis

Client:	Impact Environmental	Date Collected:	06/26/13
Project:	Melody Cleaners	Date Received:	06/27/13
Client Sample ID:	FT-GW421-0610MSD	SDG No.:	E2678
Lab Sample ID:	E2719-18MSD	Matrix:	Water
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN006827.D	1		06/29/13	VN062913

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-01-5	cis-1,3-Dichloropropene	51.3		0.31	0.5	1	ug/L
79-00-5	1,1,2-Trichloroethane	50.5		0.38	0.5	1	ug/L
591-78-6	2-Hexanone	250		1.9	2.5	5	ug/L
124-48-1	Dibromochloromethane	50.2		0.2	0.5	1	ug/L
106-93-4	1,2-Dibromoethane	49.6		0.41	0.5	1	ug/L
127-18-4	Tetrachloroethene	47.9		0.27	0.5	1	ug/L
108-90-7	Chlorobenzene	49		0.49	0.5	1	ug/L
100-41-4	Ethyl Benzene	51.1		0.2	0.5	1	ug/L
179601-23-1	m/p-Xylenes	100		0.95	1	2	ug/L
95-47-6	o-Xylene	51.9		0.43	0.5	1	ug/L
100-42-5	Styrene	53.4		0.36	0.5	1	ug/L
75-25-2	Bromoform	53.5		0.47	0.5	1	ug/L
98-82-8	Isopropylbenzene	51.3		0.45	0.5	1	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	50.4		0.31	0.5	1	ug/L
541-73-1	1,3-Dichlorobenzene	49.8		0.43	0.5	1	ug/L
106-46-7	1,4-Dichlorobenzene	48.9		0.32	0.5	1	ug/L
95-50-1	1,2-Dichlorobenzene	49.7		0.45	0.5	1	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	51.8		0.46	0.5	1	ug/L
120-82-1	1,2,4-Trichlorobenzene	52.5		0.2	0.5	1	ug/L
87-61-6	1,2,3-Trichlorobenzene	53		0.2	0.5	1	ug/L
123-91-1	1,4-Dioxane	1100		100	100	100	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	49.3		70 - 120		99%	SPK: 50
1868-53-7	Dibromofluoromethane	49.8		85 - 115		100%	SPK: 50
2037-26-5	Toluene-d8	51		85 - 120		102%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.3		75 - 120		101%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	369943	7.87				
540-36-3	1,4-Difluorobenzene	656502	8.79				
3114-55-4	Chlorobenzene-d5	602006	11.61				
3855-82-1	1,4-Dichlorobenzene-d4	287078	13.56				

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Report of Analysis

Client:	Impact Environmental	Date Collected:	06/26/13
Project:	Melody Cleaners	Date Received:	06/27/13
Client Sample ID:	FT-GW421-0610MSD	SDG No.:	E2678
Lab Sample ID:	E2719-18MSD	Matrix:	Water
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN006827.D	1		06/29/13	VN062913

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

CALIBRATION SUMMARY

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: IMPA01

Lab Code: CHEM Case No.: E2678 SAS No.: E2678 SDG No.: E2678

Instrument ID: MSVOA_N Calibration Date(s): 06/17/2013 06/17/2013

Heated Purge: (Y/N) N Calibration Time(s): 10:15 12:38

GC Column: RXI-624 ID: 0.25 (mm)

LAB FILE ID: RRF001 = VN006507.D RRF005 = VN006508.D RRF020 = VN006509.D
RRF050 = VN006510.D RRF100 = VN006511.D RRF200 = VN006512.D

COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	RRF200	$\overline{RRF}$	% RSD
Dichlorodifluoromethane	0.390	0.391	0.423	0.412	0.396	0.401	0.402	3.2
Chloromethane	0.525	0.439	0.412	0.406	0.392	0.405	0.430	11.4
Vinyl Chloride	0.612	0.576	0.571	0.576	0.541	0.536	0.569	4.9
Bromomethane	0.398	0.333	0.315	0.313	0.272	0.285	0.319	13.9
Chloroethane	0.328	0.317	0.296	0.298	0.283	0.282	0.301	6.2
Trichlorofluoromethane	0.781	0.788	0.756	0.728	0.706	0.713	0.745	4.7
1,1,2-Trichlorotrifluoroethane	0.457	0.465	0.451	0.433	0.418	0.422	0.441	4.4
1,1-Dichloroethene	0.501	0.459	0.446	0.439	0.434	0.440	0.453	5.5
Acetone	0.206	0.209	0.144	0.146	0.148	0.143	0.166	19.5
Carbon Disulfide	1.395	1.325	1.285	1.281	1.245	1.268	1.300	4.1
Methyl tert-butyl Ether	1.347	1.403	1.334	1.365	1.353	1.376	1.363	1.8
Methyl Acetate	0.465	0.544	0.538	0.570	0.595	0.594	0.551	8.8
Methylene Chloride	0.550	0.527	0.506	0.510	0.494	0.496	0.514	4.1
trans-1,2-Dichloroethene	0.530	0.537	0.506	0.499	0.482	0.497	0.508	4.1
1,1-Dichloroethane	0.875	0.853	0.800	0.791	0.766	0.776	0.810	5.4
Cyclohexane	1.466	0.830	0.712	0.688	0.649	0.649	0.832	38.1
2-Butanone	0.205	0.237	0.188	0.199	0.208	0.204	0.207	7.9
Carbon Tetrachloride	0.392	0.392	0.379	0.398	0.392	0.406	0.393	2.3
cis-1,2-Dichloroethene	0.622	0.613	0.575	0.576	0.564	0.577	0.588	4
Bromochloromethane	0.296	0.347	0.357	0.345	0.332	0.318	0.332	6.7
Chloroform	0.917	0.957	0.887	0.897	0.869	0.881	0.901	3.5
1,1,1-Trichloroethane	0.788	0.803	0.792	0.785	0.773	0.786	0.788	1.2
Methylcyclohexane	0.522	0.497	0.521	0.498	0.493	0.498	0.505	2.6
Benzene	1.319	1.224	1.221	1.204	1.179	1.193	1.223	4.1
1,2-Dichloroethane	0.408	0.394	0.382	0.382	0.376	0.379	0.387	3.2
Trichloroethene	0.352	0.366	0.358	0.353	0.354	0.360	0.357	1.4
1,2-Dichloropropane	0.300	0.305	0.297	0.293	0.284	0.289	0.294	2.6
Bromodichloromethane	0.441	0.444	0.424	0.421	0.416	0.426	0.429	2.6
4-Methyl-2-Pentanone	0.223	0.240	0.242	0.258	0.272	0.267	0.250	7.5
Toluene	0.798	0.778	0.795	0.796	0.791	0.811	0.795	1.3
t-1,3-Dichloropropene	0.416	0.421	0.438	0.453	0.464	0.483	0.446	5.8
cis-1,3-Dichloropropene	0.482	0.477	0.487	0.491	0.494	0.510	0.490	2.3
1,1,2-Trichloroethane	0.319	0.326	0.321	0.323	0.320	0.326	0.323	1

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.

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VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: IMPA01

Lab Code: CHEM Case No.: E2678 SAS No.: E2678 SDG No.: E2678

Instrument ID: MSVOA_N Calibration Date(s): 06/17/2013 06/17/2013

Heated Purge: (Y/N) N Calibration Time(s): 10:15 12:38

GC Column: RXI-624 ID: 0.25 (mm)

LAB FILE ID: RRF001 = VN006507.D RRF005 = VN006508.D RRF020 = VN006509.D
RRF050 = VN006510.D RRF100 = VN006511.D RRF200 = VN006512.D

COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	RRF200	$\overline{RRF}$	% RSD
2-Hexanone	0.157	0.188	0.172	0.185	0.198	0.189	0.182	8
Dibromochloromethane	0.354	0.357	0.360	0.374	0.376	0.392	0.369	4
1,2-Dibromoethane	0.342	0.332	0.340	0.345	0.346	0.350	0.342	1.8
Tetrachloroethene	0.373	0.350	0.352	0.327	0.328	0.335	0.344	5.1
Chlorobenzene	1.181	1.073	1.033	1.010	1.009	1.028	1.056	6.2
Ethyl Benzene	1.651	1.607	1.635	1.618	1.629	1.670	1.635	1.4
m/p-Xylenes	0.667	0.620	0.640	0.636	0.650	0.665	0.646	2.8
o-Xylene	0.639	0.613	0.627	0.632	0.646	0.665	0.637	2.8
Styrene	0.902	0.898	0.986	1.021	1.060	1.097	0.994	8.2
Bromoform	0.265	0.274	0.280	0.296	0.311	0.310	0.289	6.7
Isopropylbenzene	3.448	3.447	3.366	3.232	3.189	3.517	3.367	3.9
1,1,2,2-Tetrachloroethane	1.007	1.034	0.941	0.919	0.898	0.904	0.950	6
1,3-Dichlorobenzene	1.757	1.653	1.628	1.586	1.580	1.659	1.644	3.9
1,4-Dichlorobenzene	1.834	1.667	1.618	1.597	1.569	1.623	1.651	5.8
1,2-Dichlorobenzene	1.744	1.622	1.559	1.549	1.520	1.543	1.590	5.2
1,2-Dibromo-3-Chloropropane	0.134	0.156	0.164	0.167	0.160	0.153	0.156	7.6
1,2,4-Trichlorobenzene	0.910	1.005	1.029	0.996	0.904	0.944	0.965	5.5
1,2,3-Trichlorobenzene	0.867	0.953	0.993	0.961	0.873	0.926	0.929	5.4
1,2-Dichloroethane-d4	0.603	0.551	0.555	0.542	0.529	0.525	0.551	5.1
Dibromofluoromethane	0.362	0.312	0.324	0.311	0.306	0.308	0.321	6.7
Toluene-d8	1.283	1.174	1.250	1.205	1.201	1.207	1.220	3.2
4-Bromofluorobenzene	0.492	0.370	0.417	0.405	0.414	0.412	0.418	9.6
1,4-Dioxane		0.004	0.004	0.004	0.005	0.004	0.004	2.8

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: IMPA01

Lab Code: CHEM Case No.: E2678 SAS No.: E2678 SDG No.: E2678

Instrument ID: MSVOA_N Calibration Date(s): 06/29/2013 06/29/2013

Heated Purge: (Y/N) N Calibration Time(s): 13:09 15:29

GC Column: RXI-624 ID: 0.25 (mm)

LAB FILE ID: RRF001 = VN006815.D RRF005 = VN006816.D RRF020 = VN006817.D
RRF050 = VN006818.D RRF100 = VN006819.D RRF200 = VN006820.D

COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	RRF200	$\overline{RRF}$	% RSD
Dichlorodifluoromethane	0.460	0.451	0.542	0.508	0.497	0.529	0.498	7.3
Chloromethane	0.573	0.483	0.546	0.491	0.456	0.479	0.505	8.8
Vinyl Chloride	0.806	0.751	0.838	0.770	0.718	0.750	0.772	5.6
Bromomethane	0.438	0.389	0.406	0.362	0.360	0.396	0.392	7.4
Chloroethane	0.355	0.337	0.343	0.330	0.315	0.331	0.335	4
Trichlorofluoromethane	0.902	0.887	0.951	0.886	0.850	0.895	0.895	3.7
1,1,2-Trichlorotrifluoroethane	0.496	0.502	0.552	0.502	0.471	0.487	0.502	5.4
1,1-Dichloroethene	0.500	0.485	0.513	0.500	0.474	0.502	0.496	2.8
Acetone	0.248	0.251	0.170	0.160	0.153	0.150	0.189	25.3
Carbon Disulfide	1.332	1.359	1.491	1.425	1.390	1.484	1.414	4.6
Methyl tert-butyl Ether	1.497	1.480	1.618	1.605	1.557	1.625	1.563	4
Methyl Acetate	0.548	0.603	0.678	0.666	0.640	0.665	0.634	7.8
Methylene Chloride	0.538	0.604	0.615	0.579	0.566	0.582	0.581	4.7
trans-1,2-Dichloroethene	0.559	0.551	0.596	0.570	0.537	0.572	0.564	3.6
1,1-Dichloroethane	0.938	0.963	0.972	0.946	0.887	0.920	0.938	3.3
Cyclohexane	1.688	0.901	0.878	0.783	0.741	0.760	0.958	37.9
2-Butanone	0.225	0.236	0.228	0.225	0.217	0.218	0.225	3.1
Carbon Tetrachloride	0.464	0.414	0.448	0.437	0.434	0.450	0.441	3.9
cis-1,2-Dichloroethene	0.626	0.638	0.698	0.663	0.625	0.652	0.650	4.2
Bromochloromethane	0.375	0.392	0.432	0.386	0.359	0.426	0.395	7.2
Chloroform	1.101	1.099	1.163	1.112	1.028	1.063	1.094	4.2
1,1,1-Trichloroethane	0.924	0.967	1.005	0.980	0.923	0.952	0.959	3.3
Methylcyclohexane	0.529	0.484	0.538	0.534	0.520	0.541	0.524	4
Benzene	1.397	1.375	1.405	1.338	1.272	1.302	1.348	4
1,2-Dichloroethane	0.498	0.482	0.495	0.471	0.434	0.436	0.469	6
Trichloroethene	0.399	0.365	0.373	0.367	0.345	0.358	0.368	4.9
1,2-Dichloropropane	0.373	0.345	0.344	0.322	0.306	0.318	0.335	7.3
Bromodichloromethane	0.507	0.459	0.509	0.482	0.465	0.474	0.483	4.3
4-Methyl-2-Pentanone	0.230	0.260	0.283	0.280	0.270	0.271	0.266	7.2
Toluene	0.844	0.821	0.884	0.857	0.837	0.864	0.851	2.6
t-1,3-Dichloropropene	0.384	0.447	0.506	0.516	0.497	0.514	0.477	10.9
cis-1,3-Dichloropropene	0.426	0.492	0.543	0.550	0.528	0.552	0.515	9.5
1,1,2-Trichloroethane	0.339	0.338	0.361	0.354	0.339	0.341	0.345	2.8

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.

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VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: IMPA01

Lab Code: CHEM Case No.: E2678 SAS No.: E2678 SDG No.: E2678

Instrument ID: MSVOA_N Calibration Date(s): 06/29/2013 06/29/2013

Heated Purge: (Y/N) N Calibration Time(s): 13:09 15:29

GC Column: RXI-624 ID: 0.25 (mm)

LAB FILE ID: RRF001 = VN006815.D RRF005 = VN006816.D RRF020 = VN006817.D
RRF050 = VN006818.D RRF100 = VN006819.D RRF200 = VN006820.D

COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	RRF200	$\overline{RRF}$	% RSD
2-Hexanone	0.173	0.197	0.195	0.202	0.193	0.188	0.191	5.4
Dibromochloromethane	0.389	0.355	0.390	0.382	0.372	0.393	0.380	3.8
1,2-Dibromoethane	0.381	0.361	0.382	0.368	0.355	0.363	0.368	3
Tetrachloroethene	0.345	0.345	0.334	0.315	0.304	0.309	0.325	5.6
Chlorobenzene	1.068	1.096	1.121	1.055	1.017	1.054	1.069	3.4
Ethyl Benzene	1.598	1.634	1.765	1.747	1.739	1.825	1.718	5
m/p-Xylenes	0.605	0.595	0.679	0.677	0.667	0.705	0.655	6.8
o-Xylene	0.595	0.598	0.674	0.665	0.664	0.702	0.650	6.7
Styrene	0.763	0.860	1.037	1.078	1.070	1.149	0.993	14.9
Bromoform	0.222	0.225	0.270	0.276	0.275	0.275	0.257	10.2
Isopropylbenzene	3.233	3.422	3.706	3.568	3.570	3.943	3.574	6.8
1,1,2,2-Tetrachloroethane	1.187	1.084	1.139	1.067	1.031	1.022	1.088	5.9
1,3-Dichlorobenzene	1.677	1.695	1.744	1.640	1.620	1.671	1.674	2.6
1,4-Dichlorobenzene	1.906	1.691	1.722	1.634	1.612	1.648	1.702	6.3
1,2-Dichlorobenzene	1.737	1.694	1.711	1.600	1.524	1.559	1.637	5.4
1,2-Dibromo-3-Chloropropane	0.109	0.183	0.210	0.194	0.184	0.183	0.177	19.9
1,2,4-Trichlorobenzene	0.968	0.929	1.063	0.960	0.888	0.915	0.954	6.4
1,2,3-Trichlorobenzene	0.748	0.908	1.001	0.913	0.846	0.894	0.885	9.5
1,2-Dichloroethane-d4	0.704	0.691	0.766	0.715	0.651	0.630	0.693	7
Dibromofluoromethane	0.366	0.326	0.351	0.345	0.320	0.308	0.336	6.4
Toluene-d8	1.163	1.197	1.348	1.327	1.243	1.220	1.250	5.9
4-Bromofluorobenzene	0.484	0.386	0.454	0.459	0.436	0.413	0.439	8
1,4-Dioxane		0.004	0.005	0.005	0.005	0.005	0.005	8.7

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.

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VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: IMPA01

Lab Code: CHEM Case No.: E2678 SAS No.: E2678 SDG No.: E2678

Instrument ID: MSVOA_N Calibration Date/Time: 06/27/2013 01:55

Lab File ID: VN006731.D Init. Calib. Date(s): 06/17/2013 06/17/2013

Heated Purge: (Y/N) N Init. Calib. Time(s): 10:15 12:38

GC Column: RXI-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.402	0.382		-4.97	20
Chloromethane	0.430	0.411	0.1	-4.42	20
Vinyl Chloride	0.569	0.653		14.76	20
Bromomethane	0.319	0.352		10.35	20
Chloroethane	0.301	0.300		-0.33	20
Trichlorofluoromethane	0.745	0.828		11.14	20
1,1,2-Trichlorotrifluoroethane	0.441	0.471		6.8	20
1,1-Dichloroethene	0.453	0.459		1.33	20
Acetone	0.166	0.151		-9.04	20
Carbon Disulfide	1.300	1.088		-16.31	20
Methyl tert-butyl Ether	1.363	1.672		22.67	20
Methyl Acetate	0.551	0.758		37.57	20
Methylene Chloride	0.514	0.585		13.81	20
trans-1,2-Dichloroethene	0.508	0.525		3.35	20
1,1-Dichloroethane	0.810	0.964	0.1	19.01	20
Cyclohexane	0.832	0.710		-14.66	20
2-Butanone	0.207	0.239		15.46	20
Carbon Tetrachloride	0.393	0.420		6.87	20
cis-1,2-Dichloroethene	0.588	0.660		12.24	20
Bromochloromethane	0.332	0.404		21.69	20
Chloroform	0.901	1.134		25.86	20
1,1,1-Trichloroethane	0.788	0.974		23.6	20
Methylcyclohexane	0.505	0.452		-10.49	20
Benzene	1.223	1.286		5.15	20
1,2-Dichloroethane	0.387	0.456		17.83	20
Trichloroethene	0.357	0.346		-3.08	20
1,2-Dichloropropane	0.294	0.333		13.27	20
Bromodichloromethane	0.429	0.492		14.69	20
4-Methyl-2-Pentanone	0.250	0.305		22	20
Toluene	0.795	0.834		4.91	20
t-1,3-Dichloropropene	0.446	0.485		8.74	20
cis-1,3-Dichloropropene	0.490	0.517		5.51	20
1,1,2-Trichloroethane	0.323	0.367		13.62	20
2-Hexanone	0.182	0.210		15.39	20
Dibromochloromethane	0.369	0.389		5.42	20
1,2-Dibromoethane	0.342	0.363		6.14	20
Tetrachloroethene	0.344	0.324		-5.81	20
Chlorobenzene	1.056	1.054	0.3	-0.19	20
Ethyl Benzene	1.635	1.737		6.24	20
m/p-Xylenes	0.646	0.659		2.01	20
o-Xylene	0.637	0.668		4.87	20
Styrene	0.994	1.077		8.35	20

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VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: IMPA01

Lab Code: CHEM Case No.: E2678 SAS No.: E2678 SDG No.: E2678

Instrument ID: MSVOA_N Calibration Date/Time: 06/27/2013 01:55

Lab File ID: VN006731.D Init. Calib. Date(s): 06/17/2013 06/17/2013

Heated Purge: (Y/N) N Init. Calib. Time(s): 10:15 12:38

GC Column: RXI-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Bromoform	0.289	0.279	0.1	-3.46	20
Isopropylbenzene	3.367	3.751		11.4	20
1,1,2,2-Tetrachloroethane	0.950	1.208	0.3	27.16	20
1,3-Dichlorobenzene	1.644	1.729		5.17	20
1,4-Dichlorobenzene	1.651	1.722		4.3	20
1,2-Dichlorobenzene	1.590	1.675		5.35	20
1,2-Dibromo-3-Chloropropane	0.156	0.205		31.41	20
1,2,4-Trichlorobenzene	0.965	1.000		3.63	20
1,2,3-Trichlorobenzene	0.929	0.956		2.91	20
1,2-Dichloroethane-d4	0.551	0.690		25.23	20
Dibromofluoromethane	0.321	0.331		3.12	20
Toluene-d8	1.220	1.257		3.03	20
4-Bromofluorobenzene	0.418	0.434		3.83	20
1,4-Dioxane	0.004	0.005	0.05	25	50

All other compounds must meet a minimum RRF of 0.010.

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VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: IMPA01

Lab Code: CHEM Case No.: E2678 SAS No.: E2678 SDG No.: E2678

Instrument ID: MSVOA_N Calibration Date/Time: 06/27/2013 14:55

Lab File ID: VN006755.D Init. Calib. Date(s): 06/17/2013 06/17/2013

Heated Purge: (Y/N) N Init. Calib. Time(s): 10:15 12:38

GC Column: RXI-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.402	0.365		-9.2	20
Chloromethane	0.430	0.401	0.1	-6.74	20
Vinyl Chloride	0.569	0.606		6.5	20
Bromomethane	0.319	0.297		-6.9	20
Chloroethane	0.301	0.296		-1.66	20
Trichlorofluoromethane	0.745	0.813		9.13	20
1,1,2-Trichlorotrifluoroethane	0.441	0.488		10.66	20
1,1-Dichloroethene	0.453	0.443		-2.21	20
Acetone	0.166	0.167		0.6	20
Carbon Disulfide	1.300	1.031		-20.69	20
Methyl tert-butyl Ether	1.363	1.537		12.77	20
Methyl Acetate	0.551	0.660		19.78	20
Methylene Chloride	0.514	0.544		5.84	20
trans-1,2-Dichloroethene	0.508	0.496		-2.36	20
1,1-Dichloroethane	0.810	0.892	0.1	10.12	20
Cyclohexane	0.832	0.696		-16.35	20
2-Butanone	0.207	0.222		7.25	20
Carbon Tetrachloride	0.393	0.421		7.13	20
cis-1,2-Dichloroethene	0.588	0.626		6.46	20
Bromochloromethane	0.332	0.378		13.85	20
Chloroform	0.901	1.063		17.98	20
1,1,1-Trichloroethane	0.788	0.915		16.12	20
Methylcyclohexane	0.505	0.512		1.39	20
Benzene	1.223	1.284		4.99	20
1,2-Dichloroethane	0.387	0.453		17.05	20
Trichloroethene	0.357	0.345		-3.36	20
1,2-Dichloropropane	0.294	0.326		10.88	20
Bromodichloromethane	0.429	0.489		13.99	20
4-Methyl-2-Pentanone	0.250	0.287		14.8	20
Toluene	0.795	0.846		6.41	20
t-1,3-Dichloropropene	0.446	0.508		13.9	20
cis-1,3-Dichloropropene	0.490	0.541		10.41	20
1,1,2-Trichloroethane	0.323	0.362		12.07	20
2-Hexanone	0.182	0.208		14.29	20
Dibromochloromethane	0.369	0.382		3.52	20
1,2-Dibromoethane	0.342	0.362		5.85	20
Tetrachloroethene	0.344	0.311		-9.59	20
Chlorobenzene	1.056	1.077	0.3	1.99	20
Ethyl Benzene	1.635	1.809		10.64	20
m/p-Xylenes	0.646	0.701		8.51	20
o-Xylene	0.637	0.682		7.06	20
Styrene	0.994	1.115		12.17	20

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VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: IMPA01

Lab Code: CHEM Case No.: E2678 SAS No.: E2678 SDG No.: E2678

Instrument ID: MSVOA_N Calibration Date/Time: 06/27/2013 14:55

Lab File ID: VN006755.D Init. Calib. Date(s): 06/17/2013 06/17/2013

Heated Purge: (Y/N) N Init. Calib. Time(s): 10:15 12:38

GC Column: RXI-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Bromoform	0.289	0.275	0.1	-4.84	20
Isopropylbenzene	3.367	3.552		5.49	20
1,1,2,2-Tetrachloroethane	0.950	1.064	0.3	12	20
1,3-Dichlorobenzene	1.644	1.692		2.92	20
1,4-Dichlorobenzene	1.651	1.699		2.91	20
1,2-Dichlorobenzene	1.590	1.648		3.65	20
1,2-Dibromo-3-Chloropropane	0.156	0.182		16.67	20
1,2,4-Trichlorobenzene	0.965	1.009		4.56	20
1,2,3-Trichlorobenzene	0.929	0.931		0.22	20
1,2-Dichloroethane-d4	0.551	0.634		15.06	20
Dibromofluoromethane	0.321	0.320		-0.31	20
Toluene-d8	1.220	1.240		1.64	20
4-Bromofluorobenzene	0.418	0.444		6.22	20
1,4-Dioxane	0.004	0.005	0.05	25	50

All other compounds must meet a minimum RRF of 0.010.

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: IMPA01

Lab Code: CHEM Case No.: E2678 SAS No.: E2678 SDG No.: E2678

Instrument ID: MSVOA_N Calibration Date/Time: 06/29/2013 18:33

Lab File ID: VN006823.D Init. Calib. Date(s): 06/29/2013 06/29/2013

Heated Purge: (Y/N) N Init. Calib. Time(s): 13:09 15:29

GC Column: RXI-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.498	0.488		-2.01	20
Chloromethane	0.505	0.463	0.1	-8.32	20
Vinyl Chloride	0.772	0.698		-9.59	20
Bromomethane	0.392	0.363		-7.4	20
Chloroethane	0.335	0.322		-3.88	20
Trichlorofluoromethane	0.895	0.881		-1.56	20
1,1,2-Trichlorotrifluoroethane	0.502	0.516		2.79	20
1,1-Dichloroethene	0.496	0.480		-3.23	20
Acetone	0.189	0.164		-13.23	20
Carbon Disulfide	1.414	1.398		-1.13	20
Methyl tert-butyl Ether	1.563	1.519		-2.82	20
Methyl Acetate	0.634	0.608		-4.1	20
Methylene Chloride	0.581	0.563		-3.1	20
trans-1,2-Dichloroethene	0.564	0.542		-3.9	20
1,1-Dichloroethane	0.938	0.906	0.1	-3.41	20
Cyclohexane	0.958	0.768		-19.83	20
2-Butanone	0.225	0.212		-5.78	20
Carbon Tetrachloride	0.441	0.442		0.23	20
cis-1,2-Dichloroethene	0.650	0.632		-2.77	20
Bromochloromethane	0.395	0.338		-14.43	20
Chloroform	1.094	1.051		-3.93	20
1,1,1-Trichloroethane	0.959	0.935		-2.5	20
Methylcyclohexane	0.524	0.562		7.25	20
Benzene	1.348	1.309		-2.89	20
1,2-Dichloroethane	0.469	0.441		-5.97	20
Trichloroethene	0.368	0.362		-1.63	20
1,2-Dichloropropane	0.335	0.311		-7.16	20
Bromodichloromethane	0.483	0.476		-1.45	20
4-Methyl-2-Pentanone	0.266	0.263		-1.13	20
Toluene	0.851	0.852		0.12	20
t-1,3-Dichloropropene	0.477	0.505		5.87	20
cis-1,3-Dichloropropene	0.515	0.540		4.85	20
1,1,2-Trichloroethane	0.345	0.341		-1.16	20
2-Hexanone	0.191	0.189		-1.05	20
Dibromochloromethane	0.380	0.383		0.79	20
1,2-Dibromoethane	0.368	0.354		-3.8	20
Tetrachloroethene	0.325	0.331		1.85	20
Chlorobenzene	1.069	1.061	0.3	-0.75	20
Ethyl Benzene	1.718	1.807		5.18	20
m/p-Xylenes	0.655	0.707		7.94	20
o-Xylene	0.650	0.676		4	20
Styrene	0.993	1.121		12.89	20

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VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: IMPA01

Lab Code: CHEM Case No.: E2678 SAS No.: E2678 SDG No.: E2678

Instrument ID: MSVOA_N Calibration Date/Time: 06/29/2013 18:33

Lab File ID: VN006823.D Init. Calib. Date(s): 06/29/2013 06/29/2013

Heated Purge: (Y/N) N Init. Calib. Time(s): 13:09 15:29

GC Column: RXI-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Bromoform	0.257	0.285	0.1	10.9	20
Isopropylbenzene	3.574	3.664		2.52	20
1,1,2,2-Tetrachloroethane	1.088	1.062	0.3	-2.39	20
1,3-Dichlorobenzene	1.674	1.732		3.46	20
1,4-Dichlorobenzene	1.702	1.712		0.59	20
1,2-Dichlorobenzene	1.637	1.665		1.71	20
1,2-Dibromo-3-Chloropropane	0.177	0.204		15.25	20
1,2,4-Trichlorobenzene	0.954	1.046		9.64	20
1,2,3-Trichlorobenzene	0.885	0.997		12.65	20
1,2-Dichloroethane-d4	0.693	0.631		-8.95	20
Dibromofluoromethane	0.336	0.320		-4.76	20
Toluene-d8	1.250	1.224		-2.08	20
4-Bromofluorobenzene	0.439	0.413		-5.92	20
1,4-Dioxane	0.005	0.005	0.05	0	50

All other compounds must meet a minimum RRF of 0.010.

SHIPPING DOCUMENTS

CHEMTECH
CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 Fax (908) 789-8922
www.chemtech.net

CHEMTECH PROJECT NO. E2678
QUOTE NO.
COC Number 029324

CLIENT INFORMATION

REPORT TO BE SENT TO:

COMPANY: Impact Environmental
ADDRESS: 170 Keyland Court
CITY: Bohemia STATE: NY ZIP: 11716
ATTENTION: Michael Bluight
PHONE: 631-269-8800 FAX: 631-269-1599

CLIENT PROJECT INFORMATION

PROJECT NAME: Melody Cleaners
PROJECT NO.: 69-455 LOCATION: East Meadow New York
PROJECT MANAGER: Michael Bluight
e-mail: mbluight@impactenvironmental.com
PHONE: 631-269-8800 FAX: 631-269-1599

CLIENT BILLING INFORMATION

BILL TO: Impact Environmental PO#:
ADDRESS: 170 Keyland Court
CITY: Bohemia STATE: NY ZIP: 11716
ATTENTION: Michael Bluight PHONE: 631-269-8800

DATA TURNAROUND INFORMATION

FAX: _____ DAYS *
HARD COPY: Standard DAYS *
EDD: _____ DAYS *
PREAPPROVED TAT: ☐ YES ☐ NO
* STANDARD TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

☐ LEVEL 1: Results only
☐ LEVEL 2: Results + QC
☐ LEVEL 3: Results (plus results raw data) + QC
☐ LEVEL 4: Results + QC (all raw data)
☒ EDD Format: NYSDEC Equis
☒ Others NYS Cat B Deliverable package

ANALYSIS

1 VOCs 8260 Low MA
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CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	PRESERVATIVES 1	2	3	4	5	6	7	8	9	COMMENTS
								A/E									← Specify Preservatives A-HCl B-HNO_3 C-H_2SO_4 D-NaOH E-ICE F-Other
1.	MLW-6S	water		X	6-21-13	10:10	3	X									
2.	MLW-7D	water		X	6-21-13	09:05	3	X									
3.	MLW-7I	water		X	6-21-13	09:00	3	X									
4.	MLW-8D	water		X	6-21-13	09:25	3	X									
5.	MLW-8I	water		X	6-21-13	09:20	3	X									
6.	MLW-8S	water		X	6-21-13	09:20	3	X									
7.	MLW-9D	water		X	6-21-13	09:50	3	X									
8.	MLW-9I	water		X	6-21-13	09:45	3	X									
9.	MW ~~MLW-9S~~ Dup-2	water		X	6-21-13	09:45	3	X									
10.	MLW-9S	water		X	6-21-13	09:50	3	X									

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
1. [signature]	6/24/13 15:00	1.
RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:
2.		2.
RELINQUISHED BY:	DATE/TIME:	RECEIVED FOR LAB BY:
3. UPS	6/25/13 1006	3. PS

Conditions of bottles or coolers at receipt: ☒ Compliant ☐ Non Compliant
MeOH extraction requires an additional 4 oz jar for percent solid.
Comments:

Cooler Temp. 6 °C
Ice in Cooler?: Y

Page 1 of 4

SHIPPED VIA: CLIENT: ☐ HAND DELIVERED ☒ OVERNIGHT CHEMTECH: ☐ PICKED UP ☐ OVERNIGHT

Shipment Complete: ☒ YES ☐ NO

Revision 8/2007

WHITE - CHEMTECH COPY FOR RETURN TO CLIENT YELLOW - CHEMTECH COPY PINK - SAMPLER COPY

CHEMTECH
CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 Fax (908) 789-8922
www.chemtech.net

CHEMTECH PROJECT NO. E2678
QUOTE NO.
COC Number 029322

CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: Impact Environmental
ADDRESS: 170 Keyland Court
CITY: Bohemia STATE: NY ZIP: 11716
ATTENTION: Michael Bluight
PHONE: 631-269-8800 FAX: 631-269-1599

CLIENT PROJECT INFORMATION

PROJECT NAME: Melody Cleaners
PROJECT NO.: 04-455 LOCATION: East Meadow New York
PROJECT MANAGER: Michael Bluight
e-mail: mbluight@impactenvironmental.com
PHONE: 631-269-8800 FAX: 631-269-1599

CLIENT BILLING INFORMATION

BILL TO: Impact Environmental P.O#:
ADDRESS: 170 Keyland Court
CITY: Bohemia STATE: NY ZIP: 11716
ATTENTION: Michael Bluight PHONE: 631-269-8800

DATA TURNAROUND INFORMATION

FAX: _____ DAYS *
HARD COPY: Standard DAYS *
EDD: _____ DAYS *
PREAPPROVED TAT: ☐ YES ☐ NO
* STANDARD TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

☐ LEVEL 1: Results only
☒ Others NYS Cat B Deliverables Package
☐ LEVEL 2: Results + QC
☐ LEVEL 3: Results (plus results raw data) + QC
☐ LEVEL 4: Results + QC (all raw data)
☒ EDD Format: NYSDEC Equis

ANALYSIS

1 VOCs 8260 Low MDL
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CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	PRESERVATIVES A/E 1	2	3	4	5	6	7	8	9	COMMENTS
1.11	Field Blank	water		X	6-21-13	08:00	3	X									
2.12	MLW-01	water		X	6-21-13	10:50	3	X									
3.13	MLW-0D	water		X	6-21-13	10:50	3	X									
4.14	IW-2S	water		X	6-21-13	11:15	3	X									
5.15	IW-2D	water		X	6-21-13	11:20	3	X									
6.16	IW-3S	water		X	6-21-13	12:00	3	X									
7.17	IW-3D	water		X	6-21-13	12:05	3	X									
8.18	SW-1	water		X	6-21-13	12:40	3	X									
9.19	SVE-1	water		X	6-21-13	10:50	3	X									
10.20	SVE-2	water		X	6-21-13	12:35	3	X									

Specify Preservatives: A-HCl B-HNO_3 C-H_2SO_4 D-NaOH E-ICE F-Other

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
1.	6/24/13 18:00	1.
RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:
2.		2.
RELINQUISHED BY:	DATE/TIME:	RECEIVED FOR LAB BY:
3. UPS	6/25/13 1010	3. DS

Conditions of bottles or coolers at receipt: ☒ Compliant ☐ Non Compliant Cooler Temp. 6°C
MeOH extraction requires an additional 4 oz jar for percent solid.
Comments:
Ice in Cooler?: Y

Page 3 of 4

SHIPPED VIA: CLIENT: ☐ HAND DELIVERED ☒ OVERNIGHT CHEMTECH: ☐ PICKED UP ☐ OVERNIGHT
Shipment Complete: ☒ YES ☐ NO

CHEMTECH 284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

ANALYTICAL RESULTS SUMMARY

VOLATILE ORGANICS

PROJECT NAME : MELODY CLEANERS

IMPACT ENVIRONMENTAL

170 Keyland Court

Bohemia, NY - 11716

Phone No: 631-269-8800

ORDER ID : E2679

ATTENTION : Michael Bluight

ACCREDITED IN ACCORDANCE WITH nelac

DoD ELAP

CHEMTECH

Table Of Contents for E2679

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Cover Page

Order ID : E2679

Project ID : Melody Cleaners

Client : Impact Environmental

Lab Sample Number	Client Sample Number
E2679-01	MLW-1D
E2679-02	MLW-1ID
E2679-03	DUP-1
E2679-04	MLW-1IS
E2679-05	E2679-04MS
E2679-06	E2679-04MSD
E2679-07	MLW-2D
E2679-08	MLW-2I
E2679-09	MLW-3D
E2679-10	MLW-3I
E2679-11	MLW-6D
E2679-12	MLW-6I
E2679-13	TRIPBLANK

I certify that the data package is in compliance with the terms and conditions of the contract,both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Signature : _____

Date: 7/1/2013

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

2

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

FORM S-I

SAMPLE IDENTIFICATION AND ANALYTICAL REQUIREMENT SUMMARY

NYSDEC Sample ID/Code	Laboratory Sample ID/Code	VOA GC/MS (Method #)	BNA GC/MS (Method #)	VOA GC (Method #)	Pest PCBs (Method #)	Metals (Method #)	Other (Method #)
MLW-1D	E2679-01	8260-Low					
MLW-1ID	E2679-02	8260-Low					
DUP-1	E2679-03	8260-Low					
MLW-1IS	E2679-04	8260-Low					
MLW-2D	E2679-07	8260-Low					
MLW-2I	E2679-08	8260-Low					
MLW-3D	E2679-09	8260-Low					
MLW-3I	E2679-10	8260-Low					
MLW-6D	E2679-11	8260-Low					
MLW-6I	E2679-12	8260-Low					
TRIPBLANK	E2679-13	8260-Low					

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

FORM S-III

SAMPLE PREPARATION AND ANALYSIS SUMMARY
MISCELLANEOUS ORGANIC ANALYSES

Laboratory Sample ID	Matrix	Analytical Protocol	Extraction Method	Auxiliary Cleanup	Dil/Conc Factor
E2679-01	Water	8260-Low	5030		
E2679-02	Water	8260-Low	5030		
E2679-03	Water	8260-Low	5030		
E2679-04	Water	8260-Low	5030		
E2679-05	Water	8260-Low	5030		
E2679-06	Water	8260-Low	5030		
E2679-07	Water	8260-Low	5030		
E2679-08	Water	8260-Low	5030		
E2679-09	Water	8260-Low	5030		
E2679-10	Water	8260-Low	5030		
E2679-11	Water	8260-Low	5030		
E2679-12	Water	8260-Low	5030		
E2679-13	Water	8260-Low	5030		

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CASE NARRATIVE

Impact Environmental
Project Name: Melody Cleaners
Project # N/A
Chemtech Project # E2679
Test Name: VOC-TCLVOA-10

A. Number of Samples and Date of Receipt:
13 Water samples were received on 06/25/2013.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: VOC-TCLVOA-10. This data package contains results for VOC-TCLVOA-10.

C. Analytical Techniques:
The analysis performed on instrument MSVOA_N were done using GC column RXI-624SIL MS 30m 0.25mm 1.4 um. Cat#13868.The analysis of VOC-TCLVOA-10 was based on method 8260-Low.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Surrogate recoveries met the acceptable criteria except for MLW-1ISMS [1,2-Dichloroethane-d4 - 127%], MLW-1ISMSD [1 and2-Dichloroethane-d4 - 123%].
The Internal Standards Areas met the acceptable requirements.
The Retention Times were acceptable for all samples.
The MS recoveries met the requirements for all compounds .
The MSD recoveries met the acceptable requirements .
The RPD recoveries met criteria .
The Blank Spike met requirements for all samples .
The Blank analysis did not indicate the presence of lab contamination.
The Initial Calibration met the requirements .
The %RSD is greater than 15% in the Initial Calibration (Method 82N061713W.M) for Cyclohexane & Acetone Ether these compounds are passing on Linear regression .
The Continuous Calibration in file id VN006707.D met the requirements except for .1,2-Dibromo-3-Chloropropane,
The Continuous Calibration in file id VN006755.D met the requirements except for .Carbon Disulfide.
The Tuning criteria met requirements.
Samples MLW-1IS was diluted due to bad matrix.

E. Additional Comments:
Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <15% for the Initial Calibration curve and use %D calculated based on Amount added and Calculated amount for all compounds using Linear Regression when the %RSD value for a compound is > 15% for the Initial Calibration curve for SW-846 analysis.

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F. Manual Integration Comments:
Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature_____

DATA REPORTING QUALIFIERS- ORGANIC

For reporting results, the following " Results Qualifiers" are used:

Value	If the result is a value greater than or equal to the detection limit, report the value
U	Indicates the compound was analyzed for but was not detected. Report the minimum detection limit for the sample with the U, i.e. "10 U". This is not necessarily the instrument detection limit attainable for this particular sample based on any concentration or dilution that may have been required.
ND	Indicates the analyte was analyzed for, but not detected
J	Indicates an estimated value**.** This flag is used: (1) When estimating a concentration for a tentatively identified compound (library search hits, where a 1:1 response is assumed.) (2) When the mass spectral data indicated the identification, however the result was less than the specified detection limit greater than zero. If the detection limit was 10ug/L and a concentration of 3 ug/L was calculated report as 3 J. This is flag is used when similar situation arise on any organic parameter i.e. Pest, PCB and others.
B	Indicates the analyte was found in the blank as well as the sample report as "12 B".
E	Indicates the analyte 's concentration exceeds the calibrated range of the instrument for that specific analysis.
D	This flag identifies all compounds identified in an analysis at a secondary dilution factor.
P	This flag is used for Pesticide/PCB target analyte when there is >25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form 1 and flagged with a "P".
N	This flag indicates presumptive evidence of a compound. This is only used for tentatively identified compounds (TICs), where the identification is based on a mass spectral library search. It applies to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the flag is not used.
A	This flag indicates that a Tentatively Identified Compound is a suspected aldol-condensation product.
Q	Indicates the LCS did not meet the control limits requirements

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: **E2679**

	Completed
For thorough review, the report must have the following:	
GENERAL:	
Are all original paperwork present (chain of custody, record of communication,airbill, sample management lab chronicle, login page)	✓
Check chain-of-custody for proper relinquish/return of samples	✓
Is the chain of custody signed and complete	✓
Check internal chain-of-custody for proper relinquish/return of samples /sample extracts	✓
Collect information for each project id from server. Were all requirements followed	✓
COVER PAGE:	
Do numbers of samples correspond to the number of samples in the Chain of Custody on login page	✓
Do lab numbers and client Ids on cover page agree with the Chain of Custody	✓
CHAIN OF CUSTODY:	
Do requested analyses on Chain of Custody agree with form I results	✓
Do requested analyses on Chain of Custody agree with the log-in page	✓
Were the correct method log-in for analysis according to the Analytical Request and Chain of Castody	✓
Were the samples received within hold time	✓
Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle	✓
ANALYTICAL:	
Was method requirement followed?	✓
Was client requirement followed?	✓
Does the case narrative summarize all QC failure?	✓
All runlogs and manual integration are reviewed for requirements	✓
All manual calculations and /or hand notations verified	✓

1st Level QA Review Signature: **MOHINI SONI** **Date:** **07/01/2013**

2nd Level QA Review Signature: _____ **Date:** _____

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

LAB CHRONICLE

OrderID:	E2679	**OrderDate:**	6/25/2013 11:27:00 AM
Client:	Impact Environmental	**Project:**	Melody Cleaners
Contact:	Michael Bluight	**Location:**	VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
E2679-01	**MLW-1D**	**Water**			**06/21/13**			**06/25/13**
			VOC-TCLVOA-10	8260-Low			06/26/13	
E2679-02	**MLW-1ID**	**Water**			**06/21/13**			**06/25/13**
			VOC-TCLVOA-10	8260-Low			06/26/13	
E2679-03	**DUP-1**	**Water**			**06/21/13**			**06/25/13**
			VOC-TCLVOA-10	8260-Low			06/26/13	
E2679-04	**MLW-1IS**	**Water**			**06/21/13**			**06/25/13**
			VOC-TCLVOA-10	8260-Low			06/26/13	
E2679-07	**MLW-2D**	**Water**			**06/21/13**			**06/25/13**
			VOC-TCLVOA-10	8260-Low			06/26/13	
E2679-08	**MLW-2I**	**Water**			**06/21/13**			**06/25/13**
			VOC-TCLVOA-10	8260-Low			06/26/13	
E2679-09	**MLW-3D**	**Water**			**06/21/13**			**06/25/13**
			VOC-TCLVOA-10	8260-Low			06/26/13	
E2679-10	**MLW-3I**	**Water**			**06/21/13**			**06/25/13**
			VOC-TCLVOA-10	8260-Low			06/26/13	
E2679-11	**MLW-6D**	**Water**			**06/21/13**			**06/25/13**
			VOC-TCLVOA-10	8260-Low			06/26/13	
E2679-12	**MLW-6I**	**Water**			**06/21/13**			**06/25/13**
			VOC-TCLVOA-10	8260-Low			06/26/13	
E2679-13	**TRIPBLANK**	**Water**			**06/21/13**			**06/25/13**
			VOC-TCLVOA-10	8260-Low			06/26/13	

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Hit Summary Sheet
SW-846

SDG No.: E2679

Client: Impact Environmental

Sample ID	Client ID		Parameter		Concentration		C	MDL	LOD	RDL	Units
Client ID:	**DUP-1**										
E2679-03	DUP-1	Water	1,1-Dichloroethene		2.80			0.47	0.5	1	ug/L
E2679-03	DUP-1	Water	Acetone		12.30			0.5	2.5	5	ug/L
E2679-03	DUP-1	Water	1,1-Dichloroethane		9.70			0.36	0.5	1	ug/L
E2679-03	DUP-1	Water	2-Butanone		5.80			1.3	2.5	5	ug/L
E2679-03	DUP-1	Water	1,1,1-Trichloroethane		2.10			0.4	0.5	1	ug/L
E2679-03	DUP-1	Water	Trichloroethene		1.90			0.28	0.5	1	ug/L
E2679-03	DUP-1	Water	Tetrachloroethene		8.40			0.27	0.5	1	ug/L
			Total Voc :			43					
E2679-03	DUP-1	Water	Tetrahydrofuran	*	10.60		J	2.5		5	ug/L
			Total Tics :			10.6					
			Total Concentration:			53.6					
Client ID:	**MLW-1D**										
E2679-01	MLW-1D	Water	Acetone		3.00		J	0.5	2.5	5	ug/L
E2679-01	MLW-1D	Water	Chloroform		0.96		J	0.34	0.5	1	ug/L
E2679-01	MLW-1D	Water	Tetrachloroethene		14.40			0.27	0.5	1	ug/L
			Total Voc :			18.36					
E2679-01	MLW-1D	Water	Ethyl Acetate	*	3.40		J	0.2		1	ug/L
			Total Tics :			3.4					
			Total Concentration:			21.76					
Client ID:	**MLW-1ID**										
E2679-02	MLW-1ID	Water	1,1-Dichloroethene		2.90			0.47	0.5	1	ug/L
E2679-02	MLW-1ID	Water	Acetone		3.50		J	0.5	2.5	5	ug/L
E2679-02	MLW-1ID	Water	1,1-Dichloroethane		9.80			0.36	0.5	1	ug/L
E2679-02	MLW-1ID	Water	2-Butanone		4.70		J	1.3	2.5	5	ug/L
E2679-02	MLW-1ID	Water	cis-1,2-Dichloroethene		0.62		J	0.35	0.5	1	ug/L
E2679-02	MLW-1ID	Water	1,1,1-Trichloroethane		2.20			0.4	0.5	1	ug/L
E2679-02	MLW-1ID	Water	Trichloroethene		1.70			0.28	0.5	1	ug/L
E2679-02	MLW-1ID	Water	Tetrachloroethene		8.20			0.27	0.5	1	ug/L
			Total Voc :			33.62					
E2679-02	MLW-1ID	Water	Tetrahydrofuran	*	10.30		J	2.5		5	ug/L
			Total Tics :			10.3					
			Total Concentration:			43.92					
Client ID:	**MLW-1IS**										
E2679-04	MLW-1IS	Water	Tetrachloroethene		850.00			27	50	100	ug/L
			Total Voc :			850					
			Total Concentration:			850					
Client ID:	**MLW-2D**										
E2679-07	MLW-2D	Water	1,1-Dichloroethene		1.90			0.47	0.5	1	ug/L

Hit Summary Sheet
SW-846

SDG No.: E2679

Client: Impact Environmental

Sample ID	Client ID		Parameter		Concentration		C	MDL	LOD	RDL	Units
E2679-07	MLW-2D	Water	Acetone		4.00		J	0.5	2.5	5	ug/L
E2679-07	MLW-2D	Water	1,1-Dichloroethane		6.70			0.36	0.5	1	ug/L
E2679-07	MLW-2D	Water	Trichloroethene		0.87		J	0.28	0.5	1	ug/L
			Total Voc :			13.47					
			Total Concentration:			13.47					
Client ID:	**MLW-2I**										
E2679-08	MLW-2I	Water	Acetone		9.90			0.5	2.5	5	ug/L
E2679-08	MLW-2I	Water	2-Butanone		5.80			1.3	2.5	5	ug/L
E2679-08	MLW-2I	Water	cis-1,2-Dichloroethene		18.00			0.35	0.5	1	ug/L
E2679-08	MLW-2I	Water	Trichloroethene		8.20			0.28	0.5	1	ug/L
E2679-08	MLW-2I	Water	Tetrachloroethene		26.10			0.27	0.5	1	ug/L
			Total Voc :			68					
E2679-08	MLW-2I	Water	Tetrahydrofuran	*	10.60		J	2.5		5	ug/L
			Total Tics :			10.6					
			Total Concentration:			78.6					
Client ID:	**MLW-3D**										
E2679-09	MLW-3D	Water	Acetone		3.70		J	0.5	2.5	5	ug/L
E2679-09	MLW-3D	Water	cis-1,2-Dichloroethene		0.43		J	0.35	0.5	1	ug/L
E2679-09	MLW-3D	Water	Tetrachloroethene		3.40			0.27	0.5	1	ug/L
			Total Voc :			7.53					
E2679-09	MLW-3D	Water	Ethyl Acetate	*	3.40		J	0.2		1	ug/L
			Total Tics :			3.4					
			Total Concentration:			10.93					
Client ID:	**MLW-3I**										
E2679-10	MLW-3I	Water	Acetone		1.80		J	0.5	2.5	5	ug/L
E2679-10	MLW-3I	Water	cis-1,2-Dichloroethene		63.40			0.35	0.5	1	ug/L
E2679-10	MLW-3I	Water	Trichloroethene		20.00			0.28	0.5	1	ug/L
E2679-10	MLW-3I	Water	Tetrachloroethene		68.90			0.27	0.5	1	ug/L
			Total Voc :			154.1					
E2679-10	MLW-3I	Water	Ethyl Acetate	*	4.10		J	0.2		1	ug/L
			Total Tics :			4.1					
			Total Concentration:			158.2					
Client ID:	**MLW-6D**										
E2679-11	MLW-6D	Water	Acetone		13.20			0.5	2.5	5	ug/L
E2679-11	MLW-6D	Water	Carbon Disulfide		2.80			0.2	0.5	1	ug/L
E2679-11	MLW-6D	Water	2-Butanone		7.00			1.3	2.5	5	ug/L
E2679-11	MLW-6D	Water	Chloroform		0.98		J	0.34	0.5	1	ug/L
			Total Voc :			23.98					
E2679-11	MLW-6D	Water	Tetrahydrofuran	*	12.90		J	2.5		5	ug/L

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Hit Summary Sheet
SW-846

SDG No.: E2679

Client: Impact Environmental

Sample ID	Client ID		Parameter	Concentration	C	MDL	LOD	RDL	Units
			Total Tics :	12.9					
			Total Concentration:	36.88					
Client ID:	**MLW-6I**								
E2679-12	MLW-6I	Water	Acetone	3.90	J	0.5	2.5	5	ug/L
E2679-12	MLW-6I	Water	Carbon Disulfide	1.20		0.2	0.5	1	ug/L
			Total Voc :	5.1					
			Total Concentration:	5.1					

SAMPLE DATA

Report of Analysis

Client:	Impact Environmental	Date Collected:	06/21/13
Project:	Melody Cleaners	Date Received:	06/25/13
Client Sample ID:	MLW-1D	SDG No.:	E2679
Lab Sample ID:	E2679-01	Matrix:	Water
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN006719.D	1		06/26/13	VN062613

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.5	U	0.2	0.5	1	ug/L
74-87-3	Chloromethane	0.5	U	0.2	0.5	1	ug/L
75-01-4	Vinyl Chloride	0.5	U	0.34	0.5	1	ug/L
74-83-9	Bromomethane	0.5	U	0.2	0.5	1	ug/L
75-00-3	Chloroethane	0.5	U	0.2	0.5	1	ug/L
75-69-4	Trichlorofluoromethane	0.5	U	0.35	0.5	1	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.5	U	0.45	0.5	1	ug/L
75-35-4	1,1-Dichloroethene	0.5	U	0.47	0.5	1	ug/L
67-64-1	Acetone	3	J	0.5	2.5	5	ug/L
75-15-0	Carbon Disulfide	0.5	U	0.2	0.5	1	ug/L
1634-04-4	Methyl tert-butyl Ether	0.5	U	0.35	0.5	1	ug/L
79-20-9	Methyl Acetate	0.5	U	0.2	0.5	1	ug/L
75-09-2	Methylene Chloride	0.5	U	0.41	0.5	1	ug/L
156-60-5	trans-1,2-Dichloroethene	0.5	U	0.41	0.5	1	ug/L
75-34-3	1,1-Dichloroethane	0.5	U	0.36	0.5	1	ug/L
110-82-7	Cyclohexane	0.5	U	0.2	0.5	1	ug/L
78-93-3	2-Butanone	2.5	U	1.3	2.5	5	ug/L
56-23-5	Carbon Tetrachloride	0.5	U	0.2	0.5	1	ug/L
156-59-2	cis-1,2-Dichloroethene	0.5	U	0.35	0.5	1	ug/L
74-97-5	Bromochloromethane	0.5	U	0.2	0.5	1	ug/L
67-66-3	Chloroform	0.96	J	0.34	0.5	1	ug/L
71-55-6	1,1,1-Trichloroethane	0.5	U	0.4	0.5	1	ug/L
108-87-2	Methylcyclohexane	0.5	U	0.2	0.5	1	ug/L
71-43-2	Benzene	0.5	U	0.32	0.5	1	ug/L
107-06-2	1,2-Dichloroethane	0.5	U	0.48	0.5	1	ug/L
79-01-6	Trichloroethene	0.5	U	0.28	0.5	1	ug/L
78-87-5	1,2-Dichloropropane	0.5	U	0.46	0.5	1	ug/L
75-27-4	Bromodichloromethane	0.5	U	0.36	0.5	1	ug/L
108-10-1	4-Methyl-2-Pentanone	2.5	U	2.1	2.5	5	ug/L
108-88-3	Toluene	0.5	U	0.37	0.5	1	ug/L
10061-02-6	t-1,3-Dichloropropene	0.5	U	0.29	0.5	1	ug/L

Report of Analysis

Client:	Impact Environmental	Date Collected:	06/21/13
Project:	Melody Cleaners	Date Received:	06/25/13
Client Sample ID:	MLW-1D	SDG No.:	E2679
Lab Sample ID:	E2679-01	Matrix:	Water
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN006719.D	1		06/26/13	VN062613

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-01-5	cis-1,3-Dichloropropene	0.5	U	0.31	0.5	1	ug/L
79-00-5	1,1,2-Trichloroethane	0.5	U	0.38	0.5	1	ug/L
591-78-6	2-Hexanone	2.5	U	1.9	2.5	5	ug/L
124-48-1	Dibromochloromethane	0.5	U	0.2	0.5	1	ug/L
106-93-4	1,2-Dibromoethane	0.5	U	0.41	0.5	1	ug/L
127-18-4	Tetrachloroethene	14.4		0.27	0.5	1	ug/L
108-90-7	Chlorobenzene	0.5	U	0.49	0.5	1	ug/L
100-41-4	Ethyl Benzene	0.5	U	0.2	0.5	1	ug/L
179601-23-1	m/p-Xylenes	1	U	0.95	1	2	ug/L
95-47-6	o-Xylene	0.5	U	0.43	0.5	1	ug/L
100-42-5	Styrene	0.5	U	0.36	0.5	1	ug/L
75-25-2	Bromoform	0.5	U	0.47	0.5	1	ug/L
98-82-8	Isopropylbenzene	0.5	U	0.45	0.5	1	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.5	U	0.31	0.5	1	ug/L
541-73-1	1,3-Dichlorobenzene	0.5	U	0.43	0.5	1	ug/L
106-46-7	1,4-Dichlorobenzene	0.5	U	0.32	0.5	1	ug/L
95-50-1	1,2-Dichlorobenzene	0.5	U	0.45	0.5	1	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.5	U	0.46	0.5	1	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.5	U	0.2	0.5	1	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.5	U	0.2	0.5	1	ug/L
123-91-1	1,4-Dioxane	100	U	100	100	100	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	56.1		61 - 141		112%	SPK: 50
1868-53-7	Dibromofluoromethane	47.2		69 - 133		94%	SPK: 50
2037-26-5	Toluene-d8	48.8		65 - 126		98%	SPK: 50
460-00-4	4-Bromofluorobenzene	45.9		58 - 135		92%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	358216	7.87				
540-36-3	1,4-Difluorobenzene	611706	8.79				
3114-55-4	Chlorobenzene-d5	557573	11.61				
3855-82-1	1,4-Dichlorobenzene-d4	247233	13.56				
TENTATIVE IDENTIFIED COMPOUNDS							

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Report of Analysis

Client:	Impact Environmental	Date Collected:	06/21/13
Project:	Melody Cleaners	Date Received:	06/25/13
Client Sample ID:	MLW-1D	SDG No.:	E2679
Lab Sample ID:	E2679-01	Matrix:	Water
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN006719.D	1		06/26/13	VN062613

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
141-78-6	Ethyl Acetate	3.4	J			7.17	ug/L

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

Report of Analysis

Client:	Impact Environmental	Date Collected:	06/21/13
Project:	Melody Cleaners	Date Received:	06/25/13
Client Sample ID:	MLW-1ID	SDG No.:	E2679
Lab Sample ID:	E2679-02	Matrix:	Water
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN006721.D	1		06/26/13	VN062613

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.5	U	0.2	0.5	1	ug/L
74-87-3	Chloromethane	0.5	U	0.2	0.5	1	ug/L
75-01-4	Vinyl Chloride	0.5	U	0.34	0.5	1	ug/L
74-83-9	Bromomethane	0.5	U	0.2	0.5	1	ug/L
75-00-3	Chloroethane	0.5	U	0.2	0.5	1	ug/L
75-69-4	Trichlorofluoromethane	0.5	U	0.35	0.5	1	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.5	U	0.45	0.5	1	ug/L
75-35-4	1,1-Dichloroethene	2.9		0.47	0.5	1	ug/L
67-64-1	Acetone	3.5	J	0.5	2.5	5	ug/L
75-15-0	Carbon Disulfide	0.5	U	0.2	0.5	1	ug/L
1634-04-4	Methyl tert-butyl Ether	0.5	U	0.35	0.5	1	ug/L
79-20-9	Methyl Acetate	0.5	U	0.2	0.5	1	ug/L
75-09-2	Methylene Chloride	0.5	U	0.41	0.5	1	ug/L
156-60-5	trans-1,2-Dichloroethene	0.5	U	0.41	0.5	1	ug/L
75-34-3	1,1-Dichloroethane	9.8		0.36	0.5	1	ug/L
110-82-7	Cyclohexane	0.5	U	0.2	0.5	1	ug/L
78-93-3	2-Butanone	4.7	J	1.3	2.5	5	ug/L
56-23-5	Carbon Tetrachloride	0.5	U	0.2	0.5	1	ug/L
156-59-2	cis-1,2-Dichloroethene	0.62	J	0.35	0.5	1	ug/L
74-97-5	Bromochloromethane	0.5	U	0.2	0.5	1	ug/L
67-66-3	Chloroform	0.5	U	0.34	0.5	1	ug/L
71-55-6	1,1,1-Trichloroethane	2.2		0.4	0.5	1	ug/L
108-87-2	Methylcyclohexane	0.5	U	0.2	0.5	1	ug/L
71-43-2	Benzene	0.5	U	0.32	0.5	1	ug/L
107-06-2	1,2-Dichloroethane	0.5	U	0.48	0.5	1	ug/L
79-01-6	Trichloroethene	1.7		0.28	0.5	1	ug/L
78-87-5	1,2-Dichloropropane	0.5	U	0.46	0.5	1	ug/L
75-27-4	Bromodichloromethane	0.5	U	0.36	0.5	1	ug/L
108-10-1	4-Methyl-2-Pentanone	2.5	U	2.1	2.5	5	ug/L
108-88-3	Toluene	0.5	U	0.37	0.5	1	ug/L
10061-02-6	t-1,3-Dichloropropene	0.5	U	0.29	0.5	1	ug/L

Report of Analysis

Client:	Impact Environmental	Date Collected:	06/21/13
Project:	Melody Cleaners	Date Received:	06/25/13
Client Sample ID:	MLW-1ID	SDG No.:	E2679
Lab Sample ID:	E2679-02	Matrix:	Water
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN006721.D	1		06/26/13	VN062613

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-01-5	cis-1,3-Dichloropropene	0.5	U	0.31	0.5	1	ug/L
79-00-5	1,1,2-Trichloroethane	0.5	U	0.38	0.5	1	ug/L
591-78-6	2-Hexanone	2.5	U	1.9	2.5	5	ug/L
124-48-1	Dibromochloromethane	0.5	U	0.2	0.5	1	ug/L
106-93-4	1,2-Dibromoethane	0.5	U	0.41	0.5	1	ug/L
127-18-4	Tetrachloroethene	8.2		0.27	0.5	1	ug/L
108-90-7	Chlorobenzene	0.5	U	0.49	0.5	1	ug/L
100-41-4	Ethyl Benzene	0.5	U	0.2	0.5	1	ug/L
179601-23-1	m/p-Xylenes	1	U	0.95	1	2	ug/L
95-47-6	o-Xylene	0.5	U	0.43	0.5	1	ug/L
100-42-5	Styrene	0.5	U	0.36	0.5	1	ug/L
75-25-2	Bromoform	0.5	U	0.47	0.5	1	ug/L
98-82-8	Isopropylbenzene	0.5	U	0.45	0.5	1	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.5	U	0.31	0.5	1	ug/L
541-73-1	1,3-Dichlorobenzene	0.5	U	0.43	0.5	1	ug/L
106-46-7	1,4-Dichlorobenzene	0.5	U	0.32	0.5	1	ug/L
95-50-1	1,2-Dichlorobenzene	0.5	U	0.45	0.5	1	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.5	U	0.46	0.5	1	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.5	U	0.2	0.5	1	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.5	U	0.2	0.5	1	ug/L
123-91-1	1,4-Dioxane	100	U	100	100	100	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	57.6		61 - 141		115%	SPK: 50
1868-53-7	Dibromofluoromethane	47.8		69 - 133		96%	SPK: 50
2037-26-5	Toluene-d8	48.7		65 - 126		97%	SPK: 50
460-00-4	4-Bromofluorobenzene	47		58 - 135		94%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	345024	7.87				
540-36-3	1,4-Difluorobenzene	595057	8.79				
3114-55-4	Chlorobenzene-d5	554452	11.61				
3855-82-1	1,4-Dichlorobenzene-d4	245696	13.56				
TENTATIVE IDENTIFIED COMPOUNDS							

Report of Analysis

Client:	Impact Environmental	Date Collected:	06/21/13
Project:	Melody Cleaners	Date Received:	06/25/13
Client Sample ID:	MLW-1ID	SDG No.:	E2679
Lab Sample ID:	E2679-02	Matrix:	Water
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN006721.D	1		06/26/13	VN062613

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
109-99-9	Tetrahydrofuran	10.3	J			7.47	ug/L

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

Report of Analysis

Client:	Impact Environmental	Date Collected:	06/21/13
Project:	Melody Cleaners	Date Received:	06/25/13
Client Sample ID:	DUP-1	SDG No.:	E2679
Lab Sample ID:	E2679-03	Matrix:	Water
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN006713.D	1		06/26/13	VN062613

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.5	U	0.2	0.5	1	ug/L
74-87-3	Chloromethane	0.5	U	0.2	0.5	1	ug/L
75-01-4	Vinyl Chloride	0.5	U	0.34	0.5	1	ug/L
74-83-9	Bromomethane	0.5	U	0.2	0.5	1	ug/L
75-00-3	Chloroethane	0.5	U	0.2	0.5	1	ug/L
75-69-4	Trichlorofluoromethane	0.5	U	0.35	0.5	1	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.5	U	0.45	0.5	1	ug/L
75-35-4	1,1-Dichloroethene	2.8		0.47	0.5	1	ug/L
67-64-1	Acetone	12.3		0.5	2.5	5	ug/L
75-15-0	Carbon Disulfide	0.5	U	0.2	0.5	1	ug/L
1634-04-4	Methyl tert-butyl Ether	0.5	U	0.35	0.5	1	ug/L
79-20-9	Methyl Acetate	0.5	U	0.2	0.5	1	ug/L
75-09-2	Methylene Chloride	0.5	U	0.41	0.5	1	ug/L
156-60-5	trans-1,2-Dichloroethene	0.5	U	0.41	0.5	1	ug/L
75-34-3	1,1-Dichloroethane	9.7		0.36	0.5	1	ug/L
110-82-7	Cyclohexane	0.5	U	0.2	0.5	1	ug/L
78-93-3	2-Butanone	5.8		1.3	2.5	5	ug/L
56-23-5	Carbon Tetrachloride	0.5	U	0.2	0.5	1	ug/L
156-59-2	cis-1,2-Dichloroethene	0.5	U	0.35	0.5	1	ug/L
74-97-5	Bromochloromethane	0.5	U	0.2	0.5	1	ug/L
67-66-3	Chloroform	0.5	U	0.34	0.5	1	ug/L
71-55-6	1,1,1-Trichloroethane	2.1		0.4	0.5	1	ug/L
108-87-2	Methylcyclohexane	0.5	U	0.2	0.5	1	ug/L
71-43-2	Benzene	0.5	U	0.32	0.5	1	ug/L
107-06-2	1,2-Dichloroethane	0.5	U	0.48	0.5	1	ug/L
79-01-6	Trichloroethene	1.9		0.28	0.5	1	ug/L
78-87-5	1,2-Dichloropropane	0.5	U	0.46	0.5	1	ug/L
75-27-4	Bromodichloromethane	0.5	U	0.36	0.5	1	ug/L
108-10-1	4-Methyl-2-Pentanone	2.5	U	2.1	2.5	5	ug/L
108-88-3	Toluene	0.5	U	0.37	0.5	1	ug/L
10061-02-6	t-1,3-Dichloropropene	0.5	U	0.29	0.5	1	ug/L

Report of Analysis

Client:	Impact Environmental	Date Collected:	06/21/13
Project:	Melody Cleaners	Date Received:	06/25/13
Client Sample ID:	DUP-1	SDG No.:	E2679
Lab Sample ID:	E2679-03	Matrix:	Water
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN006713.D	1		06/26/13	VN062613

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-01-5	cis-1,3-Dichloropropene	0.5	U	0.31	0.5	1	ug/L
79-00-5	1,1,2-Trichloroethane	0.5	U	0.38	0.5	1	ug/L
591-78-6	2-Hexanone	2.5	U	1.9	2.5	5	ug/L
124-48-1	Dibromochloromethane	0.5	U	0.2	0.5	1	ug/L
106-93-4	1,2-Dibromoethane	0.5	U	0.41	0.5	1	ug/L
127-18-4	Tetrachloroethene	8.4		0.27	0.5	1	ug/L
108-90-7	Chlorobenzene	0.5	U	0.49	0.5	1	ug/L
100-41-4	Ethyl Benzene	0.5	U	0.2	0.5	1	ug/L
179601-23-1	m/p-Xylenes	1	U	0.95	1	2	ug/L
95-47-6	o-Xylene	0.5	U	0.43	0.5	1	ug/L
100-42-5	Styrene	0.5	U	0.36	0.5	1	ug/L
75-25-2	Bromoform	0.5	U	0.47	0.5	1	ug/L
98-82-8	Isopropylbenzene	0.5	U	0.45	0.5	1	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.5	U	0.31	0.5	1	ug/L
541-73-1	1,3-Dichlorobenzene	0.5	U	0.43	0.5	1	ug/L
106-46-7	1,4-Dichlorobenzene	0.5	U	0.32	0.5	1	ug/L
95-50-1	1,2-Dichlorobenzene	0.5	U	0.45	0.5	1	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.5	U	0.46	0.5	1	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.5	U	0.2	0.5	1	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.5	U	0.2	0.5	1	ug/L
123-91-1	1,4-Dioxane	100	U	100	100	100	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	54.6		61 - 141		109%	SPK: 50
1868-53-7	Dibromofluoromethane	46.7		69 - 133		93%	SPK: 50
2037-26-5	Toluene-d8	48.6		65 - 126		97%	SPK: 50
460-00-4	4-Bromofluorobenzene	45.3		58 - 135		91%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	372774	7.87				
540-36-3	1,4-Difluorobenzene	635039	8.79				
3114-55-4	Chlorobenzene-d5	577424	11.61				
3855-82-1	1,4-Dichlorobenzene-d4	254396	13.56				
TENTATIVE IDENTIFIED COMPOUNDS							

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	Impact Environmental	Date Collected:	06/21/13
Project:	Melody Cleaners	Date Received:	06/25/13
Client Sample ID:	DUP-1	SDG No.:	E2679
Lab Sample ID:	E2679-03	Matrix:	Water
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN006713.D	1		06/26/13	VN062613

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
109-99-9	Tetrahydrofuran	10.6	J			7.46	ug/L

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

Report of Analysis

Client:	Impact Environmental	Date Collected:	06/21/13
Project:	Melody Cleaners	Date Received:	06/25/13
Client Sample ID:	MLW-1IS	SDG No.:	E2679
Lab Sample ID:	E2679-04	Matrix:	Water
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN006725.D	100		06/26/13	VN062613

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	50	U	20	50	100	ug/L
74-87-3	Chloromethane	50	U	20	50	100	ug/L
75-01-4	Vinyl Chloride	50	U	34	50	100	ug/L
74-83-9	Bromomethane	50	U	20	50	100	ug/L
75-00-3	Chloroethane	50	U	20	50	100	ug/L
75-69-4	Trichlorofluoromethane	50	U	35	50	100	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	50	U	45	50	100	ug/L
75-35-4	1,1-Dichloroethene	50	U	47	50	100	ug/L
67-64-1	Acetone	250	U	50	250	500	ug/L
75-15-0	Carbon Disulfide	50	U	20	50	100	ug/L
1634-04-4	Methyl tert-butyl Ether	50	U	35	50	100	ug/L
79-20-9	Methyl Acetate	50	U	20	50	100	ug/L
75-09-2	Methylene Chloride	50	U	41	50	100	ug/L
156-60-5	trans-1,2-Dichloroethene	50	U	41	50	100	ug/L
75-34-3	1,1-Dichloroethane	50	U	36	50	100	ug/L
110-82-7	Cyclohexane	50	U	20	50	100	ug/L
78-93-3	2-Butanone	250	U	130	250	500	ug/L
56-23-5	Carbon Tetrachloride	50	U	20	50	100	ug/L
156-59-2	cis-1,2-Dichloroethene	50	U	35	50	100	ug/L
74-97-5	Bromochloromethane	50	U	20	50	100	ug/L
67-66-3	Chloroform	50	U	34	50	100	ug/L
71-55-6	1,1,1-Trichloroethane	50	U	40	50	100	ug/L
108-87-2	Methylcyclohexane	50	U	20	50	100	ug/L
71-43-2	Benzene	50	U	32	50	100	ug/L
107-06-2	1,2-Dichloroethane	50	U	48	50	100	ug/L
79-01-6	Trichloroethene	50	U	28	50	100	ug/L
78-87-5	1,2-Dichloropropane	50	U	46	50	100	ug/L
75-27-4	Bromodichloromethane	50	U	36	50	100	ug/L
108-10-1	4-Methyl-2-Pentanone	250	U	210	250	500	ug/L
108-88-3	Toluene	50	U	37	50	100	ug/L
10061-02-6	t-1,3-Dichloropropene	50	U	29	50	100	ug/L

Report of Analysis

Client:	Impact Environmental	Date Collected:	06/21/13
Project:	Melody Cleaners	Date Received:	06/25/13
Client Sample ID:	MLW-1IS	SDG No.:	E2679
Lab Sample ID:	E2679-04	Matrix:	Water
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN006725.D	100		06/26/13	VN062613

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-01-5	cis-1,3-Dichloropropene	50	U	31	50	100	ug/L
79-00-5	1,1,2-Trichloroethane	50	U	38	50	100	ug/L
591-78-6	2-Hexanone	250	U	190	250	500	ug/L
124-48-1	Dibromochloromethane	50	U	20	50	100	ug/L
106-93-4	1,2-Dibromoethane	50	U	41	50	100	ug/L
127-18-4	Tetrachloroethene	850		27	50	100	ug/L
108-90-7	Chlorobenzene	50	U	49	50	100	ug/L
100-41-4	Ethyl Benzene	50	U	20	50	100	ug/L
179601-23-1	m/p-Xylenes	100	U	95	100	200	ug/L
95-47-6	o-Xylene	50	U	43	50	100	ug/L
100-42-5	Styrene	50	U	36	50	100	ug/L
75-25-2	Bromoform	50	U	47	50	100	ug/L
98-82-8	Isopropylbenzene	50	U	45	50	100	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	50	U	31	50	100	ug/L
541-73-1	1,3-Dichlorobenzene	50	U	43	50	100	ug/L
106-46-7	1,4-Dichlorobenzene	50	U	32	50	100	ug/L
95-50-1	1,2-Dichlorobenzene	50	U	45	50	100	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	50	U	46	50	100	ug/L
120-82-1	1,2,4-Trichlorobenzene	50	U	20	50	100	ug/L
87-61-6	1,2,3-Trichlorobenzene	50	U	20	50	100	ug/L
123-91-1	1,4-Dioxane	10000	U	10000	10000	10000	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	57.1		61 - 141		114%	SPK: 50
1868-53-7	Dibromofluoromethane	48.2		69 - 133		96%	SPK: 50
2037-26-5	Toluene-d8	48.8		65 - 126		98%	SPK: 50
460-00-4	4-Bromofluorobenzene	45.7		58 - 135		91%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	338947	7.87				
540-36-3	1,4-Difluorobenzene	578387	8.79				
3114-55-4	Chlorobenzene-d5	539141	11.61				
3855-82-1	1,4-Dichlorobenzene-d4	235039	13.56				

Report of Analysis

Client:	Impact Environmental	Date Collected:	06/21/13
Project:	Melody Cleaners	Date Received:	06/25/13
Client Sample ID:	MLW-1IS	SDG No.:	E2679
Lab Sample ID:	E2679-04	Matrix:	Water
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN006725.D	100		06/26/13	VN062613

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

Report of Analysis

Client:	Impact Environmental	Date Collected:	06/21/13
Project:	Melody Cleaners	Date Received:	06/25/13
Client Sample ID:	MLW-2D	SDG No.:	E2679
Lab Sample ID:	E2679-07	Matrix:	Water
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN006714.D	1		06/26/13	VN062613

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.5	U	0.2	0.5	1	ug/L
74-87-3	Chloromethane	0.5	U	0.2	0.5	1	ug/L
75-01-4	Vinyl Chloride	0.5	U	0.34	0.5	1	ug/L
74-83-9	Bromomethane	0.5	U	0.2	0.5	1	ug/L
75-00-3	Chloroethane	0.5	U	0.2	0.5	1	ug/L
75-69-4	Trichlorofluoromethane	0.5	U	0.35	0.5	1	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.5	U	0.45	0.5	1	ug/L
75-35-4	1,1-Dichloroethene	1.9		0.47	0.5	1	ug/L
67-64-1	Acetone	4	J	0.5	2.5	5	ug/L
75-15-0	Carbon Disulfide	0.5	U	0.2	0.5	1	ug/L
1634-04-4	Methyl tert-butyl Ether	0.5	U	0.35	0.5	1	ug/L
79-20-9	Methyl Acetate	0.5	U	0.2	0.5	1	ug/L
75-09-2	Methylene Chloride	0.5	U	0.41	0.5	1	ug/L
156-60-5	trans-1,2-Dichloroethene	0.5	U	0.41	0.5	1	ug/L
75-34-3	1,1-Dichloroethane	6.7		0.36	0.5	1	ug/L
110-82-7	Cyclohexane	0.5	U	0.2	0.5	1	ug/L
78-93-3	2-Butanone	2.5	U	1.3	2.5	5	ug/L
56-23-5	Carbon Tetrachloride	0.5	U	0.2	0.5	1	ug/L
156-59-2	cis-1,2-Dichloroethene	0.5	U	0.35	0.5	1	ug/L
74-97-5	Bromochloromethane	0.5	U	0.2	0.5	1	ug/L
67-66-3	Chloroform	0.5	U	0.34	0.5	1	ug/L
71-55-6	1,1,1-Trichloroethane	0.5	U	0.4	0.5	1	ug/L
108-87-2	Methylcyclohexane	0.5	U	0.2	0.5	1	ug/L
71-43-2	Benzene	0.5	U	0.32	0.5	1	ug/L
107-06-2	1,2-Dichloroethane	0.5	U	0.48	0.5	1	ug/L
79-01-6	Trichloroethene	0.87	J	0.28	0.5	1	ug/L
78-87-5	1,2-Dichloropropane	0.5	U	0.46	0.5	1	ug/L
75-27-4	Bromodichloromethane	0.5	U	0.36	0.5	1	ug/L
108-10-1	4-Methyl-2-Pentanone	2.5	U	2.1	2.5	5	ug/L
108-88-3	Toluene	0.5	U	0.37	0.5	1	ug/L
10061-02-6	t-1,3-Dichloropropene	0.5	U	0.29	0.5	1	ug/L

Report of Analysis

Client:	Impact Environmental	Date Collected:	06/21/13
Project:	Melody Cleaners	Date Received:	06/25/13
Client Sample ID:	MLW-2D	SDG No.:	E2679
Lab Sample ID:	E2679-07	Matrix:	Water
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN006714.D	1		06/26/13	VN062613

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-01-5	cis-1,3-Dichloropropene	0.5	U	0.31	0.5	1	ug/L
79-00-5	1,1,2-Trichloroethane	0.5	U	0.38	0.5	1	ug/L
591-78-6	2-Hexanone	2.5	U	1.9	2.5	5	ug/L
124-48-1	Dibromochloromethane	0.5	U	0.2	0.5	1	ug/L
106-93-4	1,2-Dibromoethane	0.5	U	0.41	0.5	1	ug/L
127-18-4	Tetrachloroethene	0.5	U	0.27	0.5	1	ug/L
108-90-7	Chlorobenzene	0.5	U	0.49	0.5	1	ug/L
100-41-4	Ethyl Benzene	0.5	U	0.2	0.5	1	ug/L
179601-23-1	m/p-Xylenes	1	U	0.95	1	2	ug/L
95-47-6	o-Xylene	0.5	U	0.43	0.5	1	ug/L
100-42-5	Styrene	0.5	U	0.36	0.5	1	ug/L
75-25-2	Bromoform	0.5	U	0.47	0.5	1	ug/L
98-82-8	Isopropylbenzene	0.5	U	0.45	0.5	1	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.5	U	0.31	0.5	1	ug/L
541-73-1	1,3-Dichlorobenzene	0.5	U	0.43	0.5	1	ug/L
106-46-7	1,4-Dichlorobenzene	0.5	U	0.32	0.5	1	ug/L
95-50-1	1,2-Dichlorobenzene	0.5	U	0.45	0.5	1	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.5	U	0.46	0.5	1	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.5	U	0.2	0.5	1	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.5	U	0.2	0.5	1	ug/L
123-91-1	1,4-Dioxane	100	U	100	100	100	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	57.3		61 - 141		115%	SPK: 50
1868-53-7	Dibromofluoromethane	47.3		69 - 133		95%	SPK: 50
2037-26-5	Toluene-d8	49.2		65 - 126		98%	SPK: 50
460-00-4	4-Bromofluorobenzene	46.3		58 - 135		93%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	361800	7.867				
540-36-3	1,4-Difluorobenzene	626820	8.79				
3114-55-4	Chlorobenzene-d5	571291	11.613				
3855-82-1	1,4-Dichlorobenzene-d4	254403	13.564				

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	Impact Environmental	Date Collected:	06/21/13
Project:	Melody Cleaners	Date Received:	06/25/13
Client Sample ID:	MLW-2D	SDG No.:	E2679
Lab Sample ID:	E2679-07	Matrix:	Water
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN006714.D	1		06/26/13	VN062613

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

Report of Analysis

Client:	Impact Environmental	Date Collected:	06/21/13
Project:	Melody Cleaners	Date Received:	06/25/13
Client Sample ID:	MLW-2I	SDG No.:	E2679
Lab Sample ID:	E2679-08	Matrix:	Water
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN006715.D	1		06/26/13	VN062613

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.5	U	0.2	0.5	1	ug/L
74-87-3	Chloromethane	0.5	U	0.2	0.5	1	ug/L
75-01-4	Vinyl Chloride	0.5	U	0.34	0.5	1	ug/L
74-83-9	Bromomethane	0.5	U	0.2	0.5	1	ug/L
75-00-3	Chloroethane	0.5	U	0.2	0.5	1	ug/L
75-69-4	Trichlorofluoromethane	0.5	U	0.35	0.5	1	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.5	U	0.45	0.5	1	ug/L
75-35-4	1,1-Dichloroethene	0.5	U	0.47	0.5	1	ug/L
67-64-1	Acetone	9.9		0.5	2.5	5	ug/L
75-15-0	Carbon Disulfide	0.5	U	0.2	0.5	1	ug/L
1634-04-4	Methyl tert-butyl Ether	0.5	U	0.35	0.5	1	ug/L
79-20-9	Methyl Acetate	0.5	U	0.2	0.5	1	ug/L
75-09-2	Methylene Chloride	0.5	U	0.41	0.5	1	ug/L
156-60-5	trans-1,2-Dichloroethene	0.5	U	0.41	0.5	1	ug/L
75-34-3	1,1-Dichloroethane	0.5	U	0.36	0.5	1	ug/L
110-82-7	Cyclohexane	0.5	U	0.2	0.5	1	ug/L
78-93-3	2-Butanone	5.8		1.3	2.5	5	ug/L
56-23-5	Carbon Tetrachloride	0.5	U	0.2	0.5	1	ug/L
156-59-2	cis-1,2-Dichloroethene	18		0.35	0.5	1	ug/L
74-97-5	Bromochloromethane	0.5	U	0.2	0.5	1	ug/L
67-66-3	Chloroform	0.5	U	0.34	0.5	1	ug/L
71-55-6	1,1,1-Trichloroethane	0.5	U	0.4	0.5	1	ug/L
108-87-2	Methylcyclohexane	0.5	U	0.2	0.5	1	ug/L
71-43-2	Benzene	0.5	U	0.32	0.5	1	ug/L
107-06-2	1,2-Dichloroethane	0.5	U	0.48	0.5	1	ug/L
79-01-6	Trichloroethene	8.2		0.28	0.5	1	ug/L
78-87-5	1,2-Dichloropropane	0.5	U	0.46	0.5	1	ug/L
75-27-4	Bromodichloromethane	0.5	U	0.36	0.5	1	ug/L
108-10-1	4-Methyl-2-Pentanone	2.5	U	2.1	2.5	5	ug/L
108-88-3	Toluene	0.5	U	0.37	0.5	1	ug/L
10061-02-6	t-1,3-Dichloropropene	0.5	U	0.29	0.5	1	ug/L

Report of Analysis

Client:	Impact Environmental	Date Collected:	06/21/13
Project:	Melody Cleaners	Date Received:	06/25/13
Client Sample ID:	MLW-2I	SDG No.:	E2679
Lab Sample ID:	E2679-08	Matrix:	Water
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN006715.D	1		06/26/13	VN062613

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-01-5	cis-1,3-Dichloropropene	0.5	U	0.31	0.5	1	ug/L
79-00-5	1,1,2-Trichloroethane	0.5	U	0.38	0.5	1	ug/L
591-78-6	2-Hexanone	2.5	U	1.9	2.5	5	ug/L
124-48-1	Dibromochloromethane	0.5	U	0.2	0.5	1	ug/L
106-93-4	1,2-Dibromoethane	0.5	U	0.41	0.5	1	ug/L
127-18-4	Tetrachloroethene	26.1		0.27	0.5	1	ug/L
108-90-7	Chlorobenzene	0.5	U	0.49	0.5	1	ug/L
100-41-4	Ethyl Benzene	0.5	U	0.2	0.5	1	ug/L
179601-23-1	m/p-Xylenes	1	U	0.95	1	2	ug/L
95-47-6	o-Xylene	0.5	U	0.43	0.5	1	ug/L
100-42-5	Styrene	0.5	U	0.36	0.5	1	ug/L
75-25-2	Bromoform	0.5	U	0.47	0.5	1	ug/L
98-82-8	Isopropylbenzene	0.5	U	0.45	0.5	1	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.5	U	0.31	0.5	1	ug/L
541-73-1	1,3-Dichlorobenzene	0.5	U	0.43	0.5	1	ug/L
106-46-7	1,4-Dichlorobenzene	0.5	U	0.32	0.5	1	ug/L
95-50-1	1,2-Dichlorobenzene	0.5	U	0.45	0.5	1	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.5	U	0.46	0.5	1	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.5	U	0.2	0.5	1	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.5	U	0.2	0.5	1	ug/L
123-91-1	1,4-Dioxane	100	U	100	100	100	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	56.3		61 - 141		113%	SPK: 50
1868-53-7	Dibromofluoromethane	48.1		69 - 133		96%	SPK: 50
2037-26-5	Toluene-d8	48.9		65 - 126		98%	SPK: 50
460-00-4	4-Bromofluorobenzene	46.3		58 - 135		93%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	374572	7.87				
540-36-3	1,4-Difluorobenzene	626312	8.79				
3114-55-4	Chlorobenzene-d5	586945	11.61				
3855-82-1	1,4-Dichlorobenzene-d4	256705	13.56				
TENTATIVE IDENTIFIED COMPOUNDS							

Report of Analysis

Client:	Impact Environmental	Date Collected:	06/21/13
Project:	Melody Cleaners	Date Received:	06/25/13
Client Sample ID:	MLW-2I	SDG No.:	E2679
Lab Sample ID:	E2679-08	Matrix:	Water
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN006715.D	1		06/26/13	VN062613

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
109-99-9	Tetrahydrofuran	10.6	J			7.47	ug/L

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

Report of Analysis

Client:	Impact Environmental	Date Collected:	06/21/13
Project:	Melody Cleaners	Date Received:	06/25/13
Client Sample ID:	MLW-3D	SDG No.:	E2679
Lab Sample ID:	E2679-09	Matrix:	Water
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN006716.D	1		06/26/13	VN062613

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.5	U	0.2	0.5	1	ug/L
74-87-3	Chloromethane	0.5	U	0.2	0.5	1	ug/L
75-01-4	Vinyl Chloride	0.5	U	0.34	0.5	1	ug/L
74-83-9	Bromomethane	0.5	U	0.2	0.5	1	ug/L
75-00-3	Chloroethane	0.5	U	0.2	0.5	1	ug/L
75-69-4	Trichlorofluoromethane	0.5	U	0.35	0.5	1	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.5	U	0.45	0.5	1	ug/L
75-35-4	1,1-Dichloroethene	0.5	U	0.47	0.5	1	ug/L
67-64-1	Acetone	3.7	J	0.5	2.5	5	ug/L
75-15-0	Carbon Disulfide	0.5	U	0.2	0.5	1	ug/L
1634-04-4	Methyl tert-butyl Ether	0.5	U	0.35	0.5	1	ug/L
79-20-9	Methyl Acetate	0.5	U	0.2	0.5	1	ug/L
75-09-2	Methylene Chloride	0.5	U	0.41	0.5	1	ug/L
156-60-5	trans-1,2-Dichloroethene	0.5	U	0.41	0.5	1	ug/L
75-34-3	1,1-Dichloroethane	0.5	U	0.36	0.5	1	ug/L
110-82-7	Cyclohexane	0.5	U	0.2	0.5	1	ug/L
78-93-3	2-Butanone	2.5	U	1.3	2.5	5	ug/L
56-23-5	Carbon Tetrachloride	0.5	U	0.2	0.5	1	ug/L
156-59-2	cis-1,2-Dichloroethene	0.43	J	0.35	0.5	1	ug/L
74-97-5	Bromochloromethane	0.5	U	0.2	0.5	1	ug/L
67-66-3	Chloroform	0.5	U	0.34	0.5	1	ug/L
71-55-6	1,1,1-Trichloroethane	0.5	U	0.4	0.5	1	ug/L
108-87-2	Methylcyclohexane	0.5	U	0.2	0.5	1	ug/L
71-43-2	Benzene	0.5	U	0.32	0.5	1	ug/L
107-06-2	1,2-Dichloroethane	0.5	U	0.48	0.5	1	ug/L
79-01-6	Trichloroethene	0.5	U	0.28	0.5	1	ug/L
78-87-5	1,2-Dichloropropane	0.5	U	0.46	0.5	1	ug/L
75-27-4	Bromodichloromethane	0.5	U	0.36	0.5	1	ug/L
108-10-1	4-Methyl-2-Pentanone	2.5	U	2.1	2.5	5	ug/L
108-88-3	Toluene	0.5	U	0.37	0.5	1	ug/L
10061-02-6	t-1,3-Dichloropropene	0.5	U	0.29	0.5	1	ug/L

Report of Analysis

Client:	Impact Environmental	Date Collected:	06/21/13
Project:	Melody Cleaners	Date Received:	06/25/13
Client Sample ID:	MLW-3D	SDG No.:	E2679
Lab Sample ID:	E2679-09	Matrix:	Water
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN006716.D	1		06/26/13	VN062613

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-01-5	cis-1,3-Dichloropropene	0.5	U	0.31	0.5	1	ug/L
79-00-5	1,1,2-Trichloroethane	0.5	U	0.38	0.5	1	ug/L
591-78-6	2-Hexanone	2.5	U	1.9	2.5	5	ug/L
124-48-1	Dibromochloromethane	0.5	U	0.2	0.5	1	ug/L
106-93-4	1,2-Dibromoethane	0.5	U	0.41	0.5	1	ug/L
127-18-4	Tetrachloroethene	3.4		0.27	0.5	1	ug/L
108-90-7	Chlorobenzene	0.5	U	0.49	0.5	1	ug/L
100-41-4	Ethyl Benzene	0.5	U	0.2	0.5	1	ug/L
179601-23-1	m/p-Xylenes	1	U	0.95	1	2	ug/L
95-47-6	o-Xylene	0.5	U	0.43	0.5	1	ug/L
100-42-5	Styrene	0.5	U	0.36	0.5	1	ug/L
75-25-2	Bromoform	0.5	U	0.47	0.5	1	ug/L
98-82-8	Isopropylbenzene	0.5	U	0.45	0.5	1	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.5	U	0.31	0.5	1	ug/L
541-73-1	1,3-Dichlorobenzene	0.5	U	0.43	0.5	1	ug/L
106-46-7	1,4-Dichlorobenzene	0.5	U	0.32	0.5	1	ug/L
95-50-1	1,2-Dichlorobenzene	0.5	U	0.45	0.5	1	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.5	U	0.46	0.5	1	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.5	U	0.2	0.5	1	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.5	U	0.2	0.5	1	ug/L
123-91-1	1,4-Dioxane	100	U	100	100	100	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	56.7		61 - 141		113%	SPK: 50
1868-53-7	Dibromofluoromethane	47		69 - 133		94%	SPK: 50
2037-26-5	Toluene-d8	49.1		65 - 126		98%	SPK: 50
460-00-4	4-Bromofluorobenzene	46.4		58 - 135		93%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	357033	7.87				
540-36-3	1,4-Difluorobenzene	603430	8.79				
3114-55-4	Chlorobenzene-d5	561447	11.61				
3855-82-1	1,4-Dichlorobenzene-d4	248086	13.56				
TENTATIVE IDENTIFIED COMPOUNDS							

Report of Analysis

Client:	Impact Environmental	Date Collected:	06/21/13
Project:	Melody Cleaners	Date Received:	06/25/13
Client Sample ID:	MLW-3D	SDG No.:	E2679
Lab Sample ID:	E2679-09	Matrix:	Water
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN006716.D	1		06/26/13	VN062613

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
141-78-6	Ethyl Acetate	3.4	J			7.17	ug/L

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

Report of Analysis

Client:	Impact Environmental	Date Collected:	06/21/13
Project:	Melody Cleaners	Date Received:	06/25/13
Client Sample ID:	MLW-3I	SDG No.:	E2679
Lab Sample ID:	E2679-10	Matrix:	Water
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN006723.D	1		06/26/13	VN062613

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.5	U	0.2	0.5	1	ug/L
74-87-3	Chloromethane	0.5	U	0.2	0.5	1	ug/L
75-01-4	Vinyl Chloride	0.5	U	0.34	0.5	1	ug/L
74-83-9	Bromomethane	0.5	U	0.2	0.5	1	ug/L
75-00-3	Chloroethane	0.5	U	0.2	0.5	1	ug/L
75-69-4	Trichlorofluoromethane	0.5	U	0.35	0.5	1	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.5	U	0.45	0.5	1	ug/L
75-35-4	1,1-Dichloroethene	0.5	U	0.47	0.5	1	ug/L
67-64-1	Acetone	1.8	J	0.5	2.5	5	ug/L
75-15-0	Carbon Disulfide	0.5	U	0.2	0.5	1	ug/L
1634-04-4	Methyl tert-butyl Ether	0.5	U	0.35	0.5	1	ug/L
79-20-9	Methyl Acetate	0.5	U	0.2	0.5	1	ug/L
75-09-2	Methylene Chloride	0.5	U	0.41	0.5	1	ug/L
156-60-5	trans-1,2-Dichloroethene	0.5	U	0.41	0.5	1	ug/L
75-34-3	1,1-Dichloroethane	0.5	U	0.36	0.5	1	ug/L
110-82-7	Cyclohexane	0.5	U	0.2	0.5	1	ug/L
78-93-3	2-Butanone	2.5	U	1.3	2.5	5	ug/L
56-23-5	Carbon Tetrachloride	0.5	U	0.2	0.5	1	ug/L
156-59-2	cis-1,2-Dichloroethene	63.4		0.35	0.5	1	ug/L
74-97-5	Bromochloromethane	0.5	U	0.2	0.5	1	ug/L
67-66-3	Chloroform	0.5	U	0.34	0.5	1	ug/L
71-55-6	1,1,1-Trichloroethane	0.5	U	0.4	0.5	1	ug/L
108-87-2	Methylcyclohexane	0.5	U	0.2	0.5	1	ug/L
71-43-2	Benzene	0.5	U	0.32	0.5	1	ug/L
107-06-2	1,2-Dichloroethane	0.5	U	0.48	0.5	1	ug/L
79-01-6	Trichloroethene	20		0.28	0.5	1	ug/L
78-87-5	1,2-Dichloropropane	0.5	U	0.46	0.5	1	ug/L
75-27-4	Bromodichloromethane	0.5	U	0.36	0.5	1	ug/L
108-10-1	4-Methyl-2-Pentanone	2.5	U	2.1	2.5	5	ug/L
108-88-3	Toluene	0.5	U	0.37	0.5	1	ug/L
10061-02-6	t-1,3-Dichloropropene	0.5	U	0.29	0.5	1	ug/L

Report of Analysis

Client:	Impact Environmental	Date Collected:	06/21/13
Project:	Melody Cleaners	Date Received:	06/25/13
Client Sample ID:	MLW-3I	SDG No.:	E2679
Lab Sample ID:	E2679-10	Matrix:	Water
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN006723.D	1		06/26/13	VN062613

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-01-5	cis-1,3-Dichloropropene	0.5	U	0.31	0.5	1	ug/L
79-00-5	1,1,2-Trichloroethane	0.5	U	0.38	0.5	1	ug/L
591-78-6	2-Hexanone	2.5	U	1.9	2.5	5	ug/L
124-48-1	Dibromochloromethane	0.5	U	0.2	0.5	1	ug/L
106-93-4	1,2-Dibromoethane	0.5	U	0.41	0.5	1	ug/L
127-18-4	Tetrachloroethene	68.9		0.27	0.5	1	ug/L
108-90-7	Chlorobenzene	0.5	U	0.49	0.5	1	ug/L
100-41-4	Ethyl Benzene	0.5	U	0.2	0.5	1	ug/L
179601-23-1	m/p-Xylenes	1	U	0.95	1	2	ug/L
95-47-6	o-Xylene	0.5	U	0.43	0.5	1	ug/L
100-42-5	Styrene	0.5	U	0.36	0.5	1	ug/L
75-25-2	Bromoform	0.5	U	0.47	0.5	1	ug/L
98-82-8	Isopropylbenzene	0.5	U	0.45	0.5	1	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.5	U	0.31	0.5	1	ug/L
541-73-1	1,3-Dichlorobenzene	0.5	U	0.43	0.5	1	ug/L
106-46-7	1,4-Dichlorobenzene	0.5	U	0.32	0.5	1	ug/L
95-50-1	1,2-Dichlorobenzene	0.5	U	0.45	0.5	1	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.5	U	0.46	0.5	1	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.5	U	0.2	0.5	1	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.5	U	0.2	0.5	1	ug/L
123-91-1	1,4-Dioxane	100	U	100	100	100	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	55.9		61 - 141		112%	SPK: 50
1868-53-7	Dibromofluoromethane	47		69 - 133		94%	SPK: 50
2037-26-5	Toluene-d8	48.4		65 - 126		97%	SPK: 50
460-00-4	4-Bromofluorobenzene	45.8		58 - 135		92%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	355971	7.87				
540-36-3	1,4-Difluorobenzene	605204	8.79				
3114-55-4	Chlorobenzene-d5	551702	11.61				
3855-82-1	1,4-Dichlorobenzene-d4	249879	13.56				
TENTATIVE IDENTIFIED COMPOUNDS							

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Report of Analysis

Client:	Impact Environmental	Date Collected:	06/21/13
Project:	Melody Cleaners	Date Received:	06/25/13
Client Sample ID:	MLW-3I	SDG No.:	E2679
Lab Sample ID:	E2679-10	Matrix:	Water
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN006723.D	1		06/26/13	VN062613

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
141-78-6	Ethyl Acetate	4.1	J			7.16	ug/L

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

Report of Analysis

Client:	Impact Environmental	Date Collected:	06/21/13
Project:	Melody Cleaners	Date Received:	06/25/13
Client Sample ID:	MLW-6D	SDG No.:	E2679
Lab Sample ID:	E2679-11	Matrix:	Water
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN006717.D	1		06/26/13	VN062613

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.5	U	0.2	0.5	1	ug/L
74-87-3	Chloromethane	0.5	U	0.2	0.5	1	ug/L
75-01-4	Vinyl Chloride	0.5	U	0.34	0.5	1	ug/L
74-83-9	Bromomethane	0.5	U	0.2	0.5	1	ug/L
75-00-3	Chloroethane	0.5	U	0.2	0.5	1	ug/L
75-69-4	Trichlorofluoromethane	0.5	U	0.35	0.5	1	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.5	U	0.45	0.5	1	ug/L
75-35-4	1,1-Dichloroethene	0.5	U	0.47	0.5	1	ug/L
67-64-1	Acetone	13.2		0.5	2.5	5	ug/L
75-15-0	Carbon Disulfide	2.8		0.2	0.5	1	ug/L
1634-04-4	Methyl tert-butyl Ether	0.5	U	0.35	0.5	1	ug/L
79-20-9	Methyl Acetate	0.5	U	0.2	0.5	1	ug/L
75-09-2	Methylene Chloride	0.5	U	0.41	0.5	1	ug/L
156-60-5	trans-1,2-Dichloroethene	0.5	U	0.41	0.5	1	ug/L
75-34-3	1,1-Dichloroethane	0.5	U	0.36	0.5	1	ug/L
110-82-7	Cyclohexane	0.5	U	0.2	0.5	1	ug/L
78-93-3	2-Butanone	7		1.3	2.5	5	ug/L
56-23-5	Carbon Tetrachloride	0.5	U	0.2	0.5	1	ug/L
156-59-2	cis-1,2-Dichloroethene	0.5	U	0.35	0.5	1	ug/L
74-97-5	Bromochloromethane	0.5	U	0.2	0.5	1	ug/L
67-66-3	Chloroform	0.98	J	0.34	0.5	1	ug/L
71-55-6	1,1,1-Trichloroethane	0.5	U	0.4	0.5	1	ug/L
108-87-2	Methylcyclohexane	0.5	U	0.2	0.5	1	ug/L
71-43-2	Benzene	0.5	U	0.32	0.5	1	ug/L
107-06-2	1,2-Dichloroethane	0.5	U	0.48	0.5	1	ug/L
79-01-6	Trichloroethene	0.5	U	0.28	0.5	1	ug/L
78-87-5	1,2-Dichloropropane	0.5	U	0.46	0.5	1	ug/L
75-27-4	Bromodichloromethane	0.5	U	0.36	0.5	1	ug/L
108-10-1	4-Methyl-2-Pentanone	2.5	U	2.1	2.5	5	ug/L
108-88-3	Toluene	0.5	U	0.37	0.5	1	ug/L
10061-02-6	t-1,3-Dichloropropene	0.5	U	0.29	0.5	1	ug/L

Report of Analysis

Client:	Impact Environmental	Date Collected:	06/21/13
Project:	Melody Cleaners	Date Received:	06/25/13
Client Sample ID:	MLW-6D	SDG No.:	E2679
Lab Sample ID:	E2679-11	Matrix:	Water
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN006717.D	1		06/26/13	VN062613

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-01-5	cis-1,3-Dichloropropene	0.5	U	0.31	0.5	1	ug/L
79-00-5	1,1,2-Trichloroethane	0.5	U	0.38	0.5	1	ug/L
591-78-6	2-Hexanone	2.5	U	1.9	2.5	5	ug/L
124-48-1	Dibromochloromethane	0.5	U	0.2	0.5	1	ug/L
106-93-4	1,2-Dibromoethane	0.5	U	0.41	0.5	1	ug/L
127-18-4	Tetrachloroethene	0.5	U	0.27	0.5	1	ug/L
108-90-7	Chlorobenzene	0.5	U	0.49	0.5	1	ug/L
100-41-4	Ethyl Benzene	0.5	U	0.2	0.5	1	ug/L
179601-23-1	m/p-Xylenes	1	U	0.95	1	2	ug/L
95-47-6	o-Xylene	0.5	U	0.43	0.5	1	ug/L
100-42-5	Styrene	0.5	U	0.36	0.5	1	ug/L
75-25-2	Bromoform	0.5	U	0.47	0.5	1	ug/L
98-82-8	Isopropylbenzene	0.5	U	0.45	0.5	1	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.5	U	0.31	0.5	1	ug/L
541-73-1	1,3-Dichlorobenzene	0.5	U	0.43	0.5	1	ug/L
106-46-7	1,4-Dichlorobenzene	0.5	U	0.32	0.5	1	ug/L
95-50-1	1,2-Dichlorobenzene	0.5	U	0.45	0.5	1	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.5	U	0.46	0.5	1	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.5	U	0.2	0.5	1	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.5	U	0.2	0.5	1	ug/L
123-91-1	1,4-Dioxane	100	U	100	100	100	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	56.4		61 - 141		113%	SPK: 50
1868-53-7	Dibromofluoromethane	47.4		69 - 133		95%	SPK: 50
2037-26-5	Toluene-d8	48.9		65 - 126		98%	SPK: 50
460-00-4	4-Bromofluorobenzene	46.5		58 - 135		93%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	355053	7.87				
540-36-3	1,4-Difluorobenzene	607215	8.79				
3114-55-4	Chlorobenzene-d5	561873	11.61				
3855-82-1	1,4-Dichlorobenzene-d4	249840	13.56				
TENTATIVE IDENTIFIED COMPOUNDS							

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Report of Analysis

Client:	Impact Environmental	Date Collected:	06/21/13
Project:	Melody Cleaners	Date Received:	06/25/13
Client Sample ID:	MLW-6D	SDG No.:	E2679
Lab Sample ID:	E2679-11	Matrix:	Water
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN006717.D	1		06/26/13	VN062613

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
109-99-9	Tetrahydrofuran	12.9	J			7.46	ug/L

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

Report of Analysis

Client:	Impact Environmental	Date Collected:	06/21/13
Project:	Melody Cleaners	Date Received:	06/25/13
Client Sample ID:	MLW-6I	SDG No.:	E2679
Lab Sample ID:	E2679-12	Matrix:	Water
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN006718.D	1		06/26/13	VN062613

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.5	U	0.2	0.5	1	ug/L
74-87-3	Chloromethane	0.5	U	0.2	0.5	1	ug/L
75-01-4	Vinyl Chloride	0.5	U	0.34	0.5	1	ug/L
74-83-9	Bromomethane	0.5	U	0.2	0.5	1	ug/L
75-00-3	Chloroethane	0.5	U	0.2	0.5	1	ug/L
75-69-4	Trichlorofluoromethane	0.5	U	0.35	0.5	1	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.5	U	0.45	0.5	1	ug/L
75-35-4	1,1-Dichloroethene	0.5	U	0.47	0.5	1	ug/L
67-64-1	Acetone	3.9	J	0.5	2.5	5	ug/L
75-15-0	Carbon Disulfide	1.2		0.2	0.5	1	ug/L
1634-04-4	Methyl tert-butyl Ether	0.5	U	0.35	0.5	1	ug/L
79-20-9	Methyl Acetate	0.5	U	0.2	0.5	1	ug/L
75-09-2	Methylene Chloride	0.5	U	0.41	0.5	1	ug/L
156-60-5	trans-1,2-Dichloroethene	0.5	U	0.41	0.5	1	ug/L
75-34-3	1,1-Dichloroethane	0.5	U	0.36	0.5	1	ug/L
110-82-7	Cyclohexane	0.5	U	0.2	0.5	1	ug/L
78-93-3	2-Butanone	2.5	U	1.3	2.5	5	ug/L
56-23-5	Carbon Tetrachloride	0.5	U	0.2	0.5	1	ug/L
156-59-2	cis-1,2-Dichloroethene	0.5	U	0.35	0.5	1	ug/L
74-97-5	Bromochloromethane	0.5	U	0.2	0.5	1	ug/L
67-66-3	Chloroform	0.5	U	0.34	0.5	1	ug/L
71-55-6	1,1,1-Trichloroethane	0.5	U	0.4	0.5	1	ug/L
108-87-2	Methylcyclohexane	0.5	U	0.2	0.5	1	ug/L
71-43-2	Benzene	0.5	U	0.32	0.5	1	ug/L
107-06-2	1,2-Dichloroethane	0.5	U	0.48	0.5	1	ug/L
79-01-6	Trichloroethene	0.5	U	0.28	0.5	1	ug/L
78-87-5	1,2-Dichloropropane	0.5	U	0.46	0.5	1	ug/L
75-27-4	Bromodichloromethane	0.5	U	0.36	0.5	1	ug/L
108-10-1	4-Methyl-2-Pentanone	2.5	U	2.1	2.5	5	ug/L
108-88-3	Toluene	0.5	U	0.37	0.5	1	ug/L
10061-02-6	t-1,3-Dichloropropene	0.5	U	0.29	0.5	1	ug/L

Report of Analysis

Client:	Impact Environmental	Date Collected:	06/21/13
Project:	Melody Cleaners	Date Received:	06/25/13
Client Sample ID:	MLW-6I	SDG No.:	E2679
Lab Sample ID:	E2679-12	Matrix:	Water
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN006718.D	1		06/26/13	VN062613

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-01-5	cis-1,3-Dichloropropene	0.5	U	0.31	0.5	1	ug/L
79-00-5	1,1,2-Trichloroethane	0.5	U	0.38	0.5	1	ug/L
591-78-6	2-Hexanone	2.5	U	1.9	2.5	5	ug/L
124-48-1	Dibromochloromethane	0.5	U	0.2	0.5	1	ug/L
106-93-4	1,2-Dibromoethane	0.5	U	0.41	0.5	1	ug/L
127-18-4	Tetrachloroethene	0.5	U	0.27	0.5	1	ug/L
108-90-7	Chlorobenzene	0.5	U	0.49	0.5	1	ug/L
100-41-4	Ethyl Benzene	0.5	U	0.2	0.5	1	ug/L
179601-23-1	m/p-Xylenes	1	U	0.95	1	2	ug/L
95-47-6	o-Xylene	0.5	U	0.43	0.5	1	ug/L
100-42-5	Styrene	0.5	U	0.36	0.5	1	ug/L
75-25-2	Bromoform	0.5	U	0.47	0.5	1	ug/L
98-82-8	Isopropylbenzene	0.5	U	0.45	0.5	1	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.5	U	0.31	0.5	1	ug/L
541-73-1	1,3-Dichlorobenzene	0.5	U	0.43	0.5	1	ug/L
106-46-7	1,4-Dichlorobenzene	0.5	U	0.32	0.5	1	ug/L
95-50-1	1,2-Dichlorobenzene	0.5	U	0.45	0.5	1	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.5	U	0.46	0.5	1	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.5	U	0.2	0.5	1	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.5	U	0.2	0.5	1	ug/L
123-91-1	1,4-Dioxane	100	U	100	100	100	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	56.1		61 - 141		112%	SPK: 50
1868-53-7	Dibromofluoromethane	46.5		69 - 133		93%	SPK: 50
2037-26-5	Toluene-d8	48.3		65 - 126		97%	SPK: 50
460-00-4	4-Bromofluorobenzene	46		58 - 135		92%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	355080	7.87				
540-36-3	1,4-Difluorobenzene	608344	8.79				
3114-55-4	Chlorobenzene-d5	557713	11.61				
3855-82-1	1,4-Dichlorobenzene-d4	244078	13.564				

Report of Analysis

Client:	Impact Environmental	Date Collected:	06/21/13
Project:	Melody Cleaners	Date Received:	06/25/13
Client Sample ID:	MLW-6I	SDG No.:	E2679
Lab Sample ID:	E2679-12	Matrix:	Water
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN006718.D	1		06/26/13	VN062613

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

Report of Analysis

Client:	Impact Environmental	Date Collected:	06/21/13
Project:	Melody Cleaners	Date Received:	06/25/13
Client Sample ID:	TRIPBLANK	SDG No.:	E2679
Lab Sample ID:	E2679-13	Matrix:	Water
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN006711.D	1		06/26/13	VN062613

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.5	U	0.2	0.5	1	ug/L
74-87-3	Chloromethane	0.5	U	0.2	0.5	1	ug/L
75-01-4	Vinyl Chloride	0.5	U	0.34	0.5	1	ug/L
74-83-9	Bromomethane	0.5	U	0.2	0.5	1	ug/L
75-00-3	Chloroethane	0.5	U	0.2	0.5	1	ug/L
75-69-4	Trichlorofluoromethane	0.5	U	0.35	0.5	1	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.5	U	0.45	0.5	1	ug/L
75-35-4	1,1-Dichloroethene	0.5	U	0.47	0.5	1	ug/L
67-64-1	Acetone	2.5	U	0.5	2.5	5	ug/L
75-15-0	Carbon Disulfide	0.5	U	0.2	0.5	1	ug/L
1634-04-4	Methyl tert-butyl Ether	0.5	U	0.35	0.5	1	ug/L
79-20-9	Methyl Acetate	0.5	U	0.2	0.5	1	ug/L
75-09-2	Methylene Chloride	0.5	U	0.41	0.5	1	ug/L
156-60-5	trans-1,2-Dichloroethene	0.5	U	0.41	0.5	1	ug/L
75-34-3	1,1-Dichloroethane	0.5	U	0.36	0.5	1	ug/L
110-82-7	Cyclohexane	0.5	U	0.2	0.5	1	ug/L
78-93-3	2-Butanone	2.5	U	1.3	2.5	5	ug/L
56-23-5	Carbon Tetrachloride	0.5	U	0.2	0.5	1	ug/L
156-59-2	cis-1,2-Dichloroethene	0.5	U	0.35	0.5	1	ug/L
74-97-5	Bromochloromethane	0.5	U	0.2	0.5	1	ug/L
67-66-3	Chloroform	0.5	U	0.34	0.5	1	ug/L
71-55-6	1,1,1-Trichloroethane	0.5	U	0.4	0.5	1	ug/L
108-87-2	Methylcyclohexane	0.5	U	0.2	0.5	1	ug/L
71-43-2	Benzene	0.5	U	0.32	0.5	1	ug/L
107-06-2	1,2-Dichloroethane	0.5	U	0.48	0.5	1	ug/L
79-01-6	Trichloroethene	0.5	U	0.28	0.5	1	ug/L
78-87-5	1,2-Dichloropropane	0.5	U	0.46	0.5	1	ug/L
75-27-4	Bromodichloromethane	0.5	U	0.36	0.5	1	ug/L
108-10-1	4-Methyl-2-Pentanone	2.5	U	2.1	2.5	5	ug/L
108-88-3	Toluene	0.5	U	0.37	0.5	1	ug/L
10061-02-6	t-1,3-Dichloropropene	0.5	U	0.29	0.5	1	ug/L

Report of Analysis

Client:	Impact Environmental	Date Collected:	06/21/13
Project:	Melody Cleaners	Date Received:	06/25/13
Client Sample ID:	TRIPBLANK	SDG No.:	E2679
Lab Sample ID:	E2679-13	Matrix:	Water
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN006711.D	1		06/26/13	VN062613

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-01-5	cis-1,3-Dichloropropene	0.5	U	0.31	0.5	1	ug/L
79-00-5	1,1,2-Trichloroethane	0.5	U	0.38	0.5	1	ug/L
591-78-6	2-Hexanone	2.5	U	1.9	2.5	5	ug/L
124-48-1	Dibromochloromethane	0.5	U	0.2	0.5	1	ug/L
106-93-4	1,2-Dibromoethane	0.5	U	0.41	0.5	1	ug/L
127-18-4	Tetrachloroethene	0.5	U	0.27	0.5	1	ug/L
108-90-7	Chlorobenzene	0.5	U	0.49	0.5	1	ug/L
100-41-4	Ethyl Benzene	0.5	U	0.2	0.5	1	ug/L
179601-23-1	m/p-Xylenes	1	U	0.95	1	2	ug/L
95-47-6	o-Xylene	0.5	U	0.43	0.5	1	ug/L
100-42-5	Styrene	0.5	U	0.36	0.5	1	ug/L
75-25-2	Bromoform	0.5	U	0.47	0.5	1	ug/L
98-82-8	Isopropylbenzene	0.5	U	0.45	0.5	1	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.5	U	0.31	0.5	1	ug/L
541-73-1	1,3-Dichlorobenzene	0.5	U	0.43	0.5	1	ug/L
106-46-7	1,4-Dichlorobenzene	0.5	U	0.32	0.5	1	ug/L
95-50-1	1,2-Dichlorobenzene	0.5	U	0.45	0.5	1	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.5	U	0.46	0.5	1	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.5	U	0.2	0.5	1	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.5	U	0.2	0.5	1	ug/L
123-91-1	1,4-Dioxane	100	U	100	100	100	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	54.9		61 - 141		110%	SPK: 50
1868-53-7	Dibromofluoromethane	47.2		69 - 133		94%	SPK: 50
2037-26-5	Toluene-d8	48.4		65 - 126		97%	SPK: 50
460-00-4	4-Bromofluorobenzene	45.6		58 - 135		91%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	376173	7.87				
540-36-3	1,4-Difluorobenzene	634586	8.79				
3114-55-4	Chlorobenzene-d5	574731	11.61				
3855-82-1	1,4-Dichlorobenzene-d4	247082	13.56				

Report of Analysis

Client:	Impact Environmental	Date Collected:	06/21/13
Project:	Melody Cleaners	Date Received:	06/25/13
Client Sample ID:	TRIPBLANK	SDG No.:	E2679
Lab Sample ID:	E2679-13	Matrix:	Water
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN006711.D	1		06/26/13	VN062613

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

QC SUMMARY

Surrogate Summary

SDG No.: E2679

Client: Impact Environmental

Analytical Method: SW8260-Low

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery	Qual	Limits Low	Limits High
E2679-01	MLW-1D	1,2-Dichloroethane-d4	50	56.091	112		61	141
		Dibromofluoromethane	50	47.167	94		69	133
		Toluene-d8	50	48.767	98		65	126
		4-Bromofluorobenzene	50	45.91	92		58	135
E2679-02	MLW-1ID	1,2-Dichloroethane-d4	50	57.556	115		61	141
		Dibromofluoromethane	50	47.757	96		69	133
		Toluene-d8	50	48.72	97		65	126
		4-Bromofluorobenzene	50	47.038	94		58	135
E2679-03	DUP-1	1,2-Dichloroethane-d4	50	54.614	109		61	141
		Dibromofluoromethane	50	46.657	93		69	133
		Toluene-d8	50	48.579	97		65	126
		4-Bromofluorobenzene	50	45.274	91		58	135
E2679-04	MLW-1IS	1,2-Dichloroethane-d4	50	57.149	114		61	141
		Dibromofluoromethane	50	48.175	96		69	133
		Toluene-d8	50	48.828	98		65	126
		4-Bromofluorobenzene	50	45.724	91		58	135
E2679-05MS	MLW-1ISMS	1,2-Dichloroethane-d4	50	63.58	127	*	70	120
		Dibromofluoromethane	50	51.855	104		85	115
		Toluene-d8	50	51.953	104		85	120
		4-Bromofluorobenzene	50	54.881	110		75	120
E2679-06MSD	MLW-1ISMSD	1,2-Dichloroethane-d4	50	61.341	123	*	70	120
		Dibromofluoromethane	50	51.222	102		85	115
		Toluene-d8	50	51.461	103		85	120
		4-Bromofluorobenzene	50	53.389	107		75	120
E2679-07	MLW-2D	1,2-Dichloroethane-d4	50	57.31	115		61	141
		Dibromofluoromethane	50	47.33	95		69	133
		Toluene-d8	50	49.17	98		65	126
		4-Bromofluorobenzene	50	46.29	93		58	135
E2679-08	MLW-2I	1,2-Dichloroethane-d4	50	56.265	113		61	141
		Dibromofluoromethane	50	48.056	96		69	133
		Toluene-d8	50	48.944	98		65	126
		4-Bromofluorobenzene	50	46.337	93		58	135
E2679-09	MLW-3D	1,2-Dichloroethane-d4	50	56.747	113		61	141
		Dibromofluoromethane	50	47.014	94		69	133
		Toluene-d8	50	49.128	98		65	126
		4-Bromofluorobenzene	50	46.428	93		58	135
E2679-10	MLW-3I	1,2-Dichloroethane-d4	50	55.872	112		61	141
		Dibromofluoromethane	50	47.019	94		69	133
		Toluene-d8	50	48.424	97		65	126
		4-Bromofluorobenzene	50	45.782	92		58	135
E2679-11	MLW-6D	1,2-Dichloroethane-d4	50	56.393	113		61	141
		Dibromofluoromethane	50	47.381	95		69	133
		Toluene-d8	50	48.941	98		65	126
		4-Bromofluorobenzene	50	46.474	93		58	135
E2679-12	MLW-6I	1,2-Dichloroethane-d4	50	56.08	112		61	141
		Dibromofluoromethane	50	46.54	93		69	133
		Toluene-d8	50	48.28	97		65	126
		4-Bromofluorobenzene	50	45.96	92		58	135
E2679-13	TRIPBLANK	1,2-Dichloroethane-d4	50	54.879	110		61	141
		Dibromofluoromethane	50	47.193	94		69	133
		Toluene-d8	50	48.424	97		65	126
		4-Bromofluorobenzene	50	45.648	91		58	135

Surrogate Summary

SDG No.: E2679

Client: Impact Environmental

Analytical Method: SW8260-Low

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery	Qual	Limits Low	Limits High
VN0626WBL01	VN0626WBL01	1,2-Dichloroethane-d4	50	56.398	113		70	120
		Dibromofluoromethane	50	46.903	94		85	115
		Toluene-d8	50	48.085	96		85	120
		4-Bromofluorobenzene	50	44.358	89		75	120
VN0626WBS01	VN0626WBS01	1,2-Dichloroethane-d4	50	58.623	117		70	120
		Dibromofluoromethane	50	51.042	102		85	115
		Toluene-d8	50	51.128	102		85	120
		4-Bromofluorobenzene	50	51.988	104		75	120
VN0627WBL01	VN0627WBL01	1,2-Dichloroethane-d4	50	57.81	116		70	120
		Dibromofluoromethane	50	50.357	101		85	115
		Toluene-d8	50	50.54	101		85	120
		4-Bromofluorobenzene	50	44.709	89		75	120
VN0627WBS01	VN0627WBS01	1,2-Dichloroethane-d4	50	59.738	119		70	120
		Dibromofluoromethane	50	51.1	102		85	115
		Toluene-d8	50	51.336	103		85	120
		4-Bromofluorobenzene	50	51.632	103		75	120

CHEMTECH

Matrix Spike/Matrix Spike Duplicate Summary
SW-846

SDG No.: E2679

Client: Impact Environmental

Analytical Method: SW8260-Low

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
Lab Sample ID : E2679-05MS	**Client Sample ID :**		**MLW-1ISMS**					**Datafile :**	VN006774.D		
Dichlorodifluoromethane	5000	0	4200	ug/L	84				30	155	
Chloromethane	5000	0	4200	ug/L	84				40	125	
Vinyl chloride	5000	0	5400	ug/L	108				50	145	
Bromomethane	5000	0	4800	ug/L	96				30	145	
Chloroethane	5000	0	4600	ug/L	92				60	135	
Trichlorofluoromethane	5000	0	5100	ug/L	102				60	145	
1,1,2-Trichlorotrifluoroethane	5000	0	4900	ug/L	98				52	142	
1,1-Dichloroethene	5000	0	4600	ug/L	92				70	130	
Acetone	25000	0	24800	ug/L	99				40	140	
Carbon disulfide	5000	0	3600	ug/L	72				35	160	
Methyl tert-butyl Ether	5000	0	5800	ug/L	116				65	125	
Methyl Acetate	5000	0	6900	ug/L	138				51	158	
Methylene Chloride	5000	0	5300	ug/L	106				55	140	
trans-1,2-Dichloroethene	5000	0	4700	ug/L	94				60	140	
1,1-Dichloroethane	5000	0	5500	ug/L	110				70	135	
Cyclohexane	5000	0	4800	ug/L	96				56	141	
2-Butanone	25000	0	27900	ug/L	112				30	150	
Carbon Tetrachloride	5000	0	5000	ug/L	100				65	140	
cis-1,2-Dichloroethene	5000	0	5200	ug/L	104				70	125	
Bromochloromethane	5000	0	5900	ug/L	118				65	130	
Chloroform	5000	0	5800	ug/L	116				65	135	
1,1,1-Trichloroethane	5000	0	5700	ug/L	114				65	130	
Methylcyclohexane	5000	0	4200	ug/L	84				56	137	
Benzene	5000	0	4900	ug/L	98				80	120	
1,2-Dichloroethane	5000	0	5600	ug/L	112				70	130	
Trichloroethene	5000	0	4500	ug/L	90				70	125	
1,2-Dichloropropane	5000	0	5200	ug/L	104				75	125	
Bromodichloromethane	5000	0	5400	ug/L	108				75	120	
4-Methyl-2-Pentanone	25000	0	29400	ug/L	118				60	135	
Toluene	5000	0	5000	ug/L	100				75	120	
t-1,3-Dichloropropene	5000	0	5100	ug/L	102				55	140	
cis-1,3-Dichloropropene	5000	0	4900	ug/L	98				70	130	
1,1,2-Trichloroethane	5000	0	5400	ug/L	108				75	125	
2-Hexanone	25000	0	28500	ug/L	114				55	130	
Dibromochloromethane	5000	0	5000	ug/L	100				60	135	
1,2-Dibromoethane	5000	0	5100	ug/L	102				80	120	
Tetrachloroethene	5000	850	5400	ug/L	91				45	150	
Chlorobenzene	5000	0	4800	ug/L	96				80	120	
Ethyl Benzene	5000	0	5000	ug/L	100				75	125	
m/p-Xylenes	10000	0	9700	ug/L	97				75	130	
o-Xylene	5000	0	4900	ug/L	98				80	120	
Styrene	5000	0	5100	ug/L	102				65	135	
Bromoform	5000	0	4600	ug/L	92				70	130	
Isopropylbenzene	5000	0	5000	ug/L	100				75	125	
1,1,2,2-Tetrachloroethane	5000	0	5700	ug/L	114				65	130	
1,3-Dichlorobenzene	5000	0	4700	ug/L	94				75	125	
1,4-Dichlorobenzene	5000	0	4700	ug/L	94				75	125	

CHEMTECH

Matrix Spike/Matrix Spike Duplicate Summary
SW-846

SDG No.: E2679

Client: Impact Environmental

Analytical Method: SW8260-Low

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
1,2-Dichlorobenzene	5000	0	4800	ug/L	96				70	120	
1,2-Dibromo-3-Chloropropane	5000	0	6200	ug/L	124				50	130	
1,2,4-Trichlorobenzene	5000	0	4700	ug/L	94				65	135	
1,2,3-Trichlorobenzene	5000	0	4600	ug/L	92				55	140	
1,4-Dioxane	100000	0	113800	ug/L	114				50	150	

CHEMTECH

Matrix Spike/Matrix Spike Duplicate Summary
SW-846

SDG No.: E2679

Client: Impact Environmental

Analytical Method: SW8260-Low

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
Lab Sample ID : E2679-06MSD	**Client Sample ID :**		**MLW-1ISMSD**				**Datafile :**	VN006775.D			
Dichlorodifluoromethane	5000	0	4500	ug/L	90		7		30	155	20
Chloromethane	5000	0	4400	ug/L	88		5		40	125	20
Vinyl chloride	5000	0	5400	ug/L	108		0		50	145	20
Bromomethane	5000	0	5000	ug/L	100		4		30	145	20
Chloroethane	5000	0	4800	ug/L	96		4		60	135	20
Trichlorofluoromethane	5000	0	5200	ug/L	104		2		60	145	20
1,1,2-Trichlorotrifluoroethane	5000	0	5100	ug/L	102		4		52	142	20
1,1-Dichloroethene	5000	0	4600	ug/L	92		0		70	130	20
Acetone	25000	0	25300	ug/L	101		2		40	140	20
Carbon disulfide	5000	0	3900	ug/L	78		8		35	160	20
Methyl tert-butyl Ether	5000	0	5900	ug/L	118		2		65	125	20
Methyl Acetate	5000	0	6700	ug/L	134		3		51	158	20
Methylene Chloride	5000	0	5400	ug/L	108		2		55	140	20
trans-1,2-Dichloroethene	5000	0	4900	ug/L	98		4		60	140	20
1,1-Dichloroethane	5000	0	5500	ug/L	110		0		70	135	20
Cyclohexane	5000	0	4900	ug/L	98		2		56	141	20
2-Butanone	25000	0	27600	ug/L	110		1		30	150	20
Carbon Tetrachloride	5000	0	5200	ug/L	104		4		65	140	20
cis-1,2-Dichloroethene	5000	0	5300	ug/L	106		2		70	125	20
Bromochloromethane	5000	0	5900	ug/L	118		0		65	130	20
Chloroform	5000	0	5800	ug/L	116		0		65	135	20
1,1,1-Trichloroethane	5000	0	5700	ug/L	114		0		65	130	20
Methylcyclohexane	5000	0	4400	ug/L	88		5		56	137	20
Benzene	5000	0	5000	ug/L	100		2		80	120	20
1,2-Dichloroethane	5000	0	5500	ug/L	110		2		70	130	20
Trichloroethene	5000	0	4600	ug/L	92		2		70	125	20
1,2-Dichloropropane	5000	0	5300	ug/L	106		2		75	125	20
Bromodichloromethane	5000	0	5400	ug/L	108		0		75	120	20
4-Methyl-2-Pentanone	25000	0	29300	ug/L	117		0		60	135	20
Toluene	5000	0	5000	ug/L	100		0		75	120	20
t-1,3-Dichloropropene	5000	0	5100	ug/L	102		0		55	140	20
cis-1,3-Dichloropropene	5000	0	5000	ug/L	100		2		70	130	20
1,1,2-Trichloroethane	5000	0	5400	ug/L	108		0		75	125	20
2-Hexanone	25000	0	28700	ug/L	115		1		55	130	20
Dibromochloromethane	5000	0	5100	ug/L	102		2		60	135	20
1,2-Dibromoethane	5000	0	5200	ug/L	104		2		80	120	20
Tetrachloroethene	5000	850	5400	ug/L	91		0		45	150	20
Chlorobenzene	5000	0	4800	ug/L	96		0		80	120	20
Ethyl Benzene	5000	0	5100	ug/L	102		2		75	125	20
m/p-Xylenes	10000	0	9800	ug/L	98		1		75	130	20
o-Xylene	5000	0	5000	ug/L	100		2		80	120	20
Styrene	5000	0	5100	ug/L	102		0		65	135	20
Bromoform	5000	0	4600	ug/L	92		0		70	130	20
Isopropylbenzene	5000	0	5100	ug/L	102		2		75	125	20
1,1,2,2-Tetrachloroethane	5000	0	5700	ug/L	114		0		65	130	20
1,3-Dichlorobenzene	5000	0	4800	ug/L	96		2		75	125	20
1,4-Dichlorobenzene	5000	0	4800	ug/L	96		2		75	125	20

CHEMTECH

Matrix Spike/Matrix Spike Duplicate Summary
SW-846

SDG No.: E2679

Client: Impact Environmental

Analytical Method: SW8260-Low

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
1,2-Dichlorobenzene	5000	0	4800	ug/L	96		0		70	120	20
1,2-Dibromo-3-Chloropropane	5000	0	6400	ug/L	128		3		50	130	20
1,2,4-Trichlorobenzene	5000	0	4800	ug/L	96		2		65	135	20
1,2,3-Trichlorobenzene	5000	0	4800	ug/L	96		4		55	140	20
1,4-Dioxane	100000	0	111600	ug/L	112		2		50	150	20

CHEMTECH

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary
SW-846

SDG No.: E2679

Client: Impact Environmental

Analytical Method: SW8260-Low **Datafile :** VN006709.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	Limits RPD
VN0626WBS01	Dichlorodifluoromethane	20	18.3	ug/L	92			30	155	
	Chloromethane	20	18	ug/L	90			40	125	
	Vinyl chloride	20	20.6	ug/L	103			50	145	
	Bromomethane	20	19.5	ug/L	98			30	145	
	Chloroethane	20	19.3	ug/L	97			60	135	
	Trichlorofluoromethane	20	21.7	ug/L	109			60	145	
	1,1,2-Trichlorotrifluoroethane	20	21.2	ug/L	106			52	142	
	1,1-Dichloroethene	20	19.7	ug/L	99			70	130	
	Acetone	100	100	ug/L	100			40	140	
	Carbon disulfide	20	16.6	ug/L	83			35	160	
	Methyl tert-butyl Ether	20	21.4	ug/L	107			65	125	
	Methyl Acetate	20	23.1	ug/L	116			51	158	
	Methylene Chloride	20	21.4	ug/L	107			55	140	
	trans-1,2-Dichloroethene	20	19.7	ug/L	99			60	140	
	1,1-Dichloroethane	20	22.3	ug/L	112			70	135	
	Cyclohexane	20	19.8	ug/L	99			56	141	
	2-Butanone	100	99.2	ug/L	99			30	150	
	Carbon Tetrachloride	20	20	ug/L	100			65	140	
	cis-1,2-Dichloroethene	20	20.8	ug/L	104			70	125	
	Bromochloromethane	20	25.4	ug/L	127			65	130	
	Chloroform	20	23.2	ug/L	116			65	135	
	1,1,1-Trichloroethane	20	22.6	ug/L	113			65	130	
	Methylcyclohexane	20	18.7	ug/L	94			56	137	
	Benzene	20	20.7	ug/L	104			80	120	
	1,2-Dichloroethane	20	22.4	ug/L	112			70	130	
	Trichloroethene	20	18.9	ug/L	95			70	125	
	1,2-Dichloropropane	20	21.7	ug/L	109			75	125	
	Bromodichloromethane	20	21.8	ug/L	109			75	120	
	4-Methyl-2-Pentanone	100	100	ug/L	100			60	135	
	Toluene	20	20.6	ug/L	103			75	120	
	t-1,3-Dichloropropene	20	21.5	ug/L	108			55	140	
	cis-1,3-Dichloropropene	20	20.7	ug/L	104			70	130	
	1,1,2-Trichloroethane	20	21.5	ug/L	108			75	125	
	2-Hexanone	100	100	ug/L	100			55	130	
	Dibromochloromethane	20	19.7	ug/L	99			60	135	
	1,2-Dibromoethane	20	20.4	ug/L	102			80	120	
	Tetrachloroethene	20	17.9	ug/L	90			45	150	
	Chlorobenzene	20	19.9	ug/L	100			80	120	
	Ethyl Benzene	20	20.8	ug/L	104			75	125	
	m/p-Xylenes	40	40.7	ug/L	102			75	130	
	o-Xylene	20	20.4	ug/L	102			80	120	
	Styrene	20	20.5	ug/L	103			65	135	
	Bromoform	20	17.3	ug/L	86			70	130	
	Isopropylbenzene	20	21.4	ug/L	107			75	125	
	1,1,2,2-Tetrachloroethane	20	22.8	ug/L	114			65	130	
	1,3-Dichlorobenzene	20	20.3	ug/L	102			75	125	
	1,4-Dichlorobenzene	20	20.5	ug/L	103			75	125	
	1,2-Dichlorobenzene	20	20.1	ug/L	101			70	120	
	1,2-Dibromo-3-Chloropropane	20	23.8	ug/L	119			50	130	

CHEMTECH

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary
SW-846

SDG No.: E2679

Client: Impact Environmental

Analytical Method: SW8260-Low **Datafile :** VN006709.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	Limits RPD
VN0626WBS01	1,2,4-Trichlorobenzene	20	21.2	ug/L	106			65	135	
	1,2,3-Trichlorobenzene	20	21.6	ug/L	108			55	140	
	1,4-Dioxane	400	440	ug/L	110			50	150	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary
SW-846

SDG No.: E2679

Client: Impact Environmental

Analytical Method: SW8260-Low **Datafile :** VN006757.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	Limits RPD
VN0627WBS01	Dichlorodifluoromethane	20	17.9	ug/L	90			30	155	
	Chloromethane	20	17.8	ug/L	89			40	125	
	Vinyl chloride	20	20.7	ug/L	104			50	145	
	Bromomethane	20	20	ug/L	100			30	145	
	Chloroethane	20	18.1	ug/L	91			60	135	
	Trichlorofluoromethane	20	21.1	ug/L	106			60	145	
	1,1,2-Trichlorotrifluoroethane	20	21	ug/L	105			52	142	
	1,1-Dichloroethene	20	18.3	ug/L	92			70	130	
	Acetone	100	110	ug/L	110			40	140	
	Carbon disulfide	20	15.2	ug/L	76			35	160	
	Methyl tert-butyl Ether	20	21.9	ug/L	110			65	125	
	Methyl Acetate	20	23.9	ug/L	119			51	158	
	Methylene Chloride	20	21.1	ug/L	106			55	140	
	trans-1,2-Dichloroethene	20	18.8	ug/L	94			60	140	
	1,1-Dichloroethane	20	21.8	ug/L	109			70	135	
	Cyclohexane	20	19	ug/L	95			56	141	
	2-Butanone	100	110	ug/L	110			30	150	
	Carbon Tetrachloride	20	19.5	ug/L	98			65	140	
	cis-1,2-Dichloroethene	20	20.4	ug/L	102			70	125	
	Bromochloromethane	20	25.8	ug/L	129			65	130	
	Chloroform	20	23.2	ug/L	116			65	135	
	1,1,1-Trichloroethane	20	22.5	ug/L	113			65	130	
	Methylcyclohexane	20	18.8	ug/L	94			56	137	
	Benzene	20	20.3	ug/L	102			80	120	
	1,2-Dichloroethane	20	23.8	ug/L	119			70	130	
	Trichloroethene	20	18.6	ug/L	93			70	125	
	1,2-Dichloropropane	20	22	ug/L	110			75	125	
	Bromodichloromethane	20	21.5	ug/L	108			75	120	
	4-Methyl-2-Pentanone	100	110	ug/L	110			60	135	
	Toluene	20	20.2	ug/L	101			75	120	
	t-1,3-Dichloropropene	20	21.1	ug/L	106			55	140	
	cis-1,3-Dichloropropene	20	21	ug/L	105			70	130	
	1,1,2-Trichloroethane	20	21.4	ug/L	107			75	125	
	2-Hexanone	100	110	ug/L	110			55	130	
	Dibromochloromethane	20	19.6	ug/L	98			60	135	
	1,2-Dibromoethane	20	20.1	ug/L	101			80	120	
	Tetrachloroethene	20	16.8	ug/L	84			45	150	
	Chlorobenzene	20	19.4	ug/L	97			80	120	
	Ethyl Benzene	20	20.1	ug/L	101			75	125	
	m/p-Xylenes	40	39.1	ug/L	98			75	130	
	o-Xylene	20	19.4	ug/L	97			80	120	
	Styrene	20	19.7	ug/L	99			65	135	
	Bromoform	20	17.8	ug/L	89			70	130	
	Isopropylbenzene	20	20.6	ug/L	103			75	125	
	1,1,2,2-Tetrachloroethane	20	23	ug/L	115			65	130	
	1,3-Dichlorobenzene	20	19.9	ug/L	100			75	125	
	1,4-Dichlorobenzene	20	19.4	ug/L	97			75	125	
	1,2-Dichlorobenzene	20	20.3	ug/L	102			70	120	
	1,2-Dibromo-3-Chloropropane	20	23.9	ug/L	119			50	130	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary
SW-846

SDG No.: E2679

Client: Impact Environmental

Analytical Method: SW8260-Low **Datafile :** VN006757.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	Limits RPD
VN0627WBS01	1,2,4-Trichlorobenzene	20	20.9	ug/L	104			65	135	
	1,2,3-Trichlorobenzene	20	20.6	ug/L	103			55	140	
	1,4-Dioxane	400	430	ug/L	108			50	150	

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VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VN0626WBL01

Lab Name: CHEMTECH Contract: IMPA01

Lab Code: CHEM Case No.: E2679 SAS No.: E2679 SDG NO.: E2679

Lab File ID: VN006708.D Lab Sample ID: VN0626WBL01

Date Analyzed: 06/26/2013 Time Analyzed: 13:32

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

Instrument ID: MSVOA_N

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VN0626WBS01	VN0626WBS01	VN006709.D	06/26/2013
TRIPBLANK	E2679-13	VN006711.D	06/26/2013
DUP-1	E2679-03	VN006713.D	06/26/2013
MLW-2D	E2679-07	VN006714.D	06/26/2013
MLW-2I	E2679-08	VN006715.D	06/26/2013
MLW-3D	E2679-09	VN006716.D	06/26/2013
MLW-6D	E2679-11	VN006717.D	06/26/2013
MLW-6I	E2679-12	VN006718.D	06/26/2013
MLW-1D	E2679-01	VN006719.D	06/26/2013
MLW-1ID	E2679-02	VN006721.D	06/26/2013
MLW-3I	E2679-10	VN006723.D	06/26/2013
MLW-1IS	E2679-04	VN006725.D	06/26/2013

COMMENTS:

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VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.
VN0627WBL01

Lab Name: CHEMTECH Contract: IMPA01

Lab Code: CHEM Case No.: E2679 SAS No.: E2679 SDG NO.: E2679

Lab File ID: VN006756.D Lab Sample ID: VN0627WBL01

Date Analyzed: 06/27/2013 Time Analyzed: 15:51

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

Instrument ID: MSVOA_N

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VN0627WBS01	VN0627WBS01	VN006757.D	06/27/2013
MLW-1ISMS	E2679-05MS	VN006774.D	06/28/2013
MLW-1ISMSD	E2679-06MSD	VN006775.D	06/28/2013

COMMENTS:

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: IMPA01

Lab Code: CHEM Case No.: E2679 SAS No.: E2679 SDG NO.: E2679

Lab File ID: VN006506.D BFB Injection Date: 06/17/2013

Instrument ID: MSVOA_N BFB Injection Time: 09:06

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	16.8
75	30.0 - 60.0% of mass 95	47
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	0.8 (1) 1
174	50.0 - 100.0% of mass 95	86.5
175	5.0 - 9.0% of mass 174	6.4 (7.4) 1
176	95.0 - 101.0% of mass 174	84.5 (97.6) 1
177	5.0 - 9.0% of mass 176	5.8 (6.9) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDICC001	VSTDICC001	VN006507.D	06/17/2013	10:15
VSTDICC005	VSTDICC005	VN006508.D	06/17/2013	10:43
VSTDICC020	VSTDICC020	VN006509.D	06/17/2013	11:13
VSTDICCC050	VSTDICCC050	VN006510.D	06/17/2013	11:41
VSTDICC100	VSTDICC100	VN006511.D	06/17/2013	12:10
VSTDICC200	VSTDICC200	VN006512.D	06/17/2013	12:38

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: IMPA01

Lab Code: CHEM Case No.: E2679 SAS No.: E2679 SDG NO.: E2679

Lab File ID: VN006706.D BFB Injection Date: 06/26/2013

Instrument ID: MSVOA_N BFB Injection Time: 11:23

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	17.4
75	30.0 - 60.0% of mass 95	49.5
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	0.0 (0.0) 1
174	50.0 - 100.0% of mass 95	81.2
175	5.0 - 9.0% of mass 174	4.9 (6) 1
176	95.0 - 101.0% of mass 174	80.5 (99.1) 1
177	5.0 - 9.0% of mass 176	4.9 (6) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VN006707.D	06/26/2013	12:46
VN0626WBL01	VN0626WBL01	VN006708.D	06/26/2013	13:32
VN0626WBS01	VN0626WBS01	VN006709.D	06/26/2013	14:07
TRIPBLANK	E2679-13	VN006711.D	06/26/2013	15:04
DUP-1	E2679-03	VN006713.D	06/26/2013	16:00
MLW-2D	E2679-07	VN006714.D	06/26/2013	16:29
MLW-2I	E2679-08	VN006715.D	06/26/2013	16:57
MLW-3D	E2679-09	VN006716.D	06/26/2013	17:25
MLW-6D	E2679-11	VN006717.D	06/26/2013	17:53
MLW-6I	E2679-12	VN006718.D	06/26/2013	18:22
MLW-1D	E2679-01	VN006719.D	06/26/2013	18:50
MLW-1ID	E2679-02	VN006721.D	06/26/2013	19:47
MLW-3I	E2679-10	VN006723.D	06/26/2013	20:43
MLW-1IS	E2679-04	VN006725.D	06/26/2013	21:40

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: IMPA01

Lab Code: CHEM Case No.: E2679 SAS No.: E2679 SDG NO.: E2679

Lab File ID: VN006754.D BFB Injection Date: 06/27/2013

Instrument ID: MSVOA_N BFB Injection Time: 13:33

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	17.3
75	30.0 - 60.0% of mass 95	52.6
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	1.5 (1.8) 1
174	50.0 - 100.0% of mass 95	83.1
175	5.0 - 9.0% of mass 174	5.7 (6.8) 1
176	95.0 - 101.0% of mass 174	79 (95) 1
177	5.0 - 9.0% of mass 176	4.7 (5.9) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VN006755.D	06/27/2013	14:55
VN0627WBL01	VN0627WBL01	VN006756.D	06/27/2013	15:51
VN0627WBS01	VN0627WBS01	VN006757.D	06/27/2013	16:26
MLW-1ISMS	E2679-05MS	VN006774.D	06/28/2013	00:28
MLW-1ISMSD	E2679-06MSD	VN006775.D	06/28/2013	00:56

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: IMPA01

Lab Code: CHEM Case No.: E2679 SAS No.: E2679 SDG NO.: E2679

Lab File ID: VN006707.D Date Analyzed: 06/26/2013

Instrument ID: MSVOA_N Time Analyzed: 12:46

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	377493	7.87	630098	8.79	583000	11.61
UPPER LIMIT	754986	8.37	1260200	9.29	1166000	12.11
LOWER LIMIT	188747	7.37	315049	8.29	291500	11.11
EPA SAMPLE NO.						
MLW-1D	358216	7.87	611706	8.79	557573	11.61
MLW-1ID	345024	7.87	595057	8.79	554452	11.61
DUP-1	372774	7.87	635039	8.79	577424	11.61
MLW-1IS	338947	7.87	578387	8.79	539141	11.61
MLW-2D	361800	7.87	626820	8.79	571291	11.61
MLW-2I	374572	7.87	626312	8.79	586945	11.61
MLW-3D	357033	7.87	603430	8.79	561447	11.61
MLW-3I	355971	7.87	605204	8.79	551702	11.61
MLW-6D	355053	7.87	607215	8.79	561873	11.61
MLW-6I	355080	7.87	608344	8.79	557713	11.61
TRIPBLANK	376173	7.87	634586	8.79	574731	11.61
VN0626WBL01	378354	7.87	657795	8.79	588379	11.61
VN0626WBS01	353668	7.87	598912	8.79	544159	11.61

IS1 = Pentafluorobenzene
IS2 = 1,4-Difluorobenzene
IS3 = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: IMPA01

Lab Code: CHEM Case No.: E2679 SAS No.: E2679 SDG NO.: E2679

Lab File ID: VN006707.D Date Analyzed: 06/26/2013

Instrument ID: MSVOA_N Time Analyzed: 12:46

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT #				
12 HOUR STD	292005	13.56				
UPPER LIMIT	584010	14.06				
LOWER LIMIT	146003	13.06				
EPA SAMPLE NO.						
MLW-1D	247233	13.56				
MLW-1ID	245696	13.56				
DUP-1	254396	13.56				
MLW-1IS	235039	13.56				
MLW-2D	254403	13.56				
MLW-2I	256705	13.56				
MLW-3D	248086	13.56				
MLW-3I	249879	13.56				
MLW-6D	249840	13.56				
MLW-6I	244078	13.56				
TRIPBLANK	247082	13.56				
VN0626WBL01	250765	13.56				
VN0626WBS01	261912	13.56				

IS4 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: IMPA01

Lab Code: CHEM Case No.: E2679 SAS No.: E2679 SDG NO.: E2679

Lab File ID: VN006755.D Date Analyzed: 06/27/2013

Instrument ID: MSVOA_N Time Analyzed: 14:55

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	324710	7.87	547258	8.79	504366	11.61
UPPER LIMIT	649420	8.37	1094520	9.29	1008730	12.11
LOWER LIMIT	162355	7.37	273629	8.29	252183	11.11
EPA SAMPLE NO.						
MLW-1ISMS	319840	7.87	564614	8.79	525355	11.61
MLW-1ISMSD	326559	7.87	578053	8.79	538542	11.61
VN0627WBL01	407035	7.87	674676	8.79	590975	11.61
VN0627WBS01	320942	7.87	541080	8.79	496695	11.61

IS1 = Pentafluorobenzene
IS2 = 1,4-Difluorobenzene
IS3 = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: IMPA01

Lab Code: CHEM Case No.: E2679 SAS No.: E2679 SDG NO.: E2679

Lab File ID: VN006755.D Date Analyzed: 06/27/2013

Instrument ID: MSVOA_N Time Analyzed: 14:55

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT #				
12 HOUR STD	259164	13.56				
UPPER LIMIT	518328	14.06				
LOWER LIMIT	129582	13.06				
EPA SAMPLE NO.						
MLW-1ISMS	259600	13.56				
MLW-1ISMSD	264090	13.56				
VN0627WBL01	249121	13.56				
VN0627WBS01	240752	13.56				

IS4 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

QC SAMPLE DATA

Report of Analysis

Client:	Impact Environmental	Date Collected:	
Project:	Melody Cleaners	Date Received:	
Client Sample ID:	VN0626WBL01	SDG No.:	E2679
Lab Sample ID:	VN0626WBL01	Matrix:	Water
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN006708.D	1		06/26/13	VN062613

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.5	U	0.2	0.5	1	ug/L
74-87-3	Chloromethane	0.5	U	0.2	0.5	1	ug/L
75-01-4	Vinyl Chloride	0.5	U	0.34	0.5	1	ug/L
74-83-9	Bromomethane	0.5	U	0.2	0.5	1	ug/L
75-00-3	Chloroethane	0.5	U	0.2	0.5	1	ug/L
75-69-4	Trichlorofluoromethane	0.5	U	0.35	0.5	1	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.5	U	0.45	0.5	1	ug/L
75-35-4	1,1-Dichloroethene	0.5	U	0.47	0.5	1	ug/L
67-64-1	Acetone	2.5	U	0.5	2.5	5	ug/L
75-15-0	Carbon Disulfide	0.5	U	0.2	0.5	1	ug/L
1634-04-4	Methyl tert-butyl Ether	0.5	U	0.35	0.5	1	ug/L
79-20-9	Methyl Acetate	0.5	U	0.2	0.5	1	ug/L
75-09-2	Methylene Chloride	0.5	U	0.41	0.5	1	ug/L
156-60-5	trans-1,2-Dichloroethene	0.5	U	0.41	0.5	1	ug/L
75-34-3	1,1-Dichloroethane	0.5	U	0.36	0.5	1	ug/L
110-82-7	Cyclohexane	0.5	U	0.2	0.5	1	ug/L
78-93-3	2-Butanone	2.5	U	1.3	2.5	5	ug/L
56-23-5	Carbon Tetrachloride	0.5	U	0.2	0.5	1	ug/L
156-59-2	cis-1,2-Dichloroethene	0.5	U	0.35	0.5	1	ug/L
74-97-5	Bromochloromethane	0.5	U	0.2	0.5	1	ug/L
67-66-3	Chloroform	0.5	U	0.34	0.5	1	ug/L
71-55-6	1,1,1-Trichloroethane	0.5	U	0.4	0.5	1	ug/L
108-87-2	Methylcyclohexane	0.5	U	0.2	0.5	1	ug/L
71-43-2	Benzene	0.5	U	0.32	0.5	1	ug/L
107-06-2	1,2-Dichloroethane	0.5	U	0.48	0.5	1	ug/L
79-01-6	Trichloroethene	0.5	U	0.28	0.5	1	ug/L
78-87-5	1,2-Dichloropropane	0.5	U	0.46	0.5	1	ug/L
75-27-4	Bromodichloromethane	0.5	U	0.36	0.5	1	ug/L
108-10-1	4-Methyl-2-Pentanone	2.5	U	2.1	2.5	5	ug/L
108-88-3	Toluene	0.5	U	0.37	0.5	1	ug/L
10061-02-6	t-1,3-Dichloropropene	0.5	U	0.29	0.5	1	ug/L

Report of Analysis

Client:	Impact Environmental	Date Collected:	
Project:	Melody Cleaners	Date Received:	
Client Sample ID:	VN0626WBL01	SDG No.:	E2679
Lab Sample ID:	VN0626WBL01	Matrix:	Water
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN006708.D	1		06/26/13	VN062613

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-01-5	cis-1,3-Dichloropropene	0.5	U	0.31	0.5	1	ug/L
79-00-5	1,1,2-Trichloroethane	0.5	U	0.38	0.5	1	ug/L
591-78-6	2-Hexanone	2.5	U	1.9	2.5	5	ug/L
124-48-1	Dibromochloromethane	0.5	U	0.2	0.5	1	ug/L
106-93-4	1,2-Dibromoethane	0.5	U	0.41	0.5	1	ug/L
127-18-4	Tetrachloroethene	0.5	U	0.27	0.5	1	ug/L
108-90-7	Chlorobenzene	0.5	U	0.49	0.5	1	ug/L
100-41-4	Ethyl Benzene	0.5	U	0.2	0.5	1	ug/L
179601-23-1	m/p-Xylenes	1	U	0.95	1	2	ug/L
95-47-6	o-Xylene	0.5	U	0.43	0.5	1	ug/L
100-42-5	Styrene	0.5	U	0.36	0.5	1	ug/L
75-25-2	Bromoform	0.5	U	0.47	0.5	1	ug/L
98-82-8	Isopropylbenzene	0.5	U	0.45	0.5	1	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.5	U	0.31	0.5	1	ug/L
541-73-1	1,3-Dichlorobenzene	0.5	U	0.43	0.5	1	ug/L
106-46-7	1,4-Dichlorobenzene	0.5	U	0.32	0.5	1	ug/L
95-50-1	1,2-Dichlorobenzene	0.5	U	0.45	0.5	1	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.5	U	0.46	0.5	1	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.5	U	0.2	0.5	1	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.5	U	0.2	0.5	1	ug/L
123-91-1	1,4-Dioxane	100	U	100	100	100	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	56.4		70 - 120		113%	SPK: 50
1868-53-7	Dibromofluoromethane	46.9		85 - 115		94%	SPK: 50
2037-26-5	Toluene-d8	48.1		85 - 120		96%	SPK: 50
460-00-4	4-Bromofluorobenzene	44.4		75 - 120		89%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	378354	7.87				
540-36-3	1,4-Difluorobenzene	657795	8.79				
3114-55-4	Chlorobenzene-d5	588379	11.61				
3855-82-1	1,4-Dichlorobenzene-d4	250765	13.56				

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Report of Analysis

Client:	Impact Environmental	Date Collected:	
Project:	Melody Cleaners	Date Received:	
Client Sample ID:	VN0626WBL01	SDG No.:	E2679
Lab Sample ID:	VN0626WBL01	Matrix:	Water
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN006708.D	1		06/26/13	VN062613

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

Report of Analysis

Client:	Impact Environmental	Date Collected:	
Project:	Melody Cleaners	Date Received:	
Client Sample ID:	VN0627WBL01	SDG No.:	E2679
Lab Sample ID:	VN0627WBL01	Matrix:	Water
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN006756.D	1		06/27/13	VN062713

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.5	U	0.2	0.5	1	ug/L
74-87-3	Chloromethane	0.5	U	0.2	0.5	1	ug/L
75-01-4	Vinyl Chloride	0.5	U	0.34	0.5	1	ug/L
74-83-9	Bromomethane	0.5	U	0.2	0.5	1	ug/L
75-00-3	Chloroethane	0.5	U	0.2	0.5	1	ug/L
75-69-4	Trichlorofluoromethane	0.5	U	0.35	0.5	1	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.5	U	0.45	0.5	1	ug/L
75-35-4	1,1-Dichloroethene	0.5	U	0.47	0.5	1	ug/L
67-64-1	Acetone	2.5	U	0.5	2.5	5	ug/L
75-15-0	Carbon Disulfide	0.5	U	0.2	0.5	1	ug/L
1634-04-4	Methyl tert-butyl Ether	0.5	U	0.35	0.5	1	ug/L
79-20-9	Methyl Acetate	0.5	U	0.2	0.5	1	ug/L
75-09-2	Methylene Chloride	0.5	U	0.41	0.5	1	ug/L
156-60-5	trans-1,2-Dichloroethene	0.5	U	0.41	0.5	1	ug/L
75-34-3	1,1-Dichloroethane	0.5	U	0.36	0.5	1	ug/L
110-82-7	Cyclohexane	0.5	U	0.2	0.5	1	ug/L
78-93-3	2-Butanone	2.5	U	1.3	2.5	5	ug/L
56-23-5	Carbon Tetrachloride	0.5	U	0.2	0.5	1	ug/L
156-59-2	cis-1,2-Dichloroethene	0.5	U	0.35	0.5	1	ug/L
74-97-5	Bromochloromethane	0.5	U	0.2	0.5	1	ug/L
67-66-3	Chloroform	0.5	U	0.34	0.5	1	ug/L
71-55-6	1,1,1-Trichloroethane	0.5	U	0.4	0.5	1	ug/L
108-87-2	Methylcyclohexane	0.5	U	0.2	0.5	1	ug/L
71-43-2	Benzene	0.5	U	0.32	0.5	1	ug/L
107-06-2	1,2-Dichloroethane	0.5	U	0.48	0.5	1	ug/L
79-01-6	Trichloroethene	0.5	U	0.28	0.5	1	ug/L
78-87-5	1,2-Dichloropropane	0.5	U	0.46	0.5	1	ug/L
75-27-4	Bromodichloromethane	0.5	U	0.36	0.5	1	ug/L
108-10-1	4-Methyl-2-Pentanone	2.5	U	2.1	2.5	5	ug/L
108-88-3	Toluene	0.5	U	0.37	0.5	1	ug/L
10061-02-6	t-1,3-Dichloropropene	0.5	U	0.29	0.5	1	ug/L

Report of Analysis

Client:	Impact Environmental	Date Collected:	
Project:	Melody Cleaners	Date Received:	
Client Sample ID:	VN0627WBL01	SDG No.:	E2679
Lab Sample ID:	VN0627WBL01	Matrix:	Water
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN006756.D	1		06/27/13	VN062713

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-01-5	cis-1,3-Dichloropropene	0.5	U	0.31	0.5	1	ug/L
79-00-5	1,1,2-Trichloroethane	0.5	U	0.38	0.5	1	ug/L
591-78-6	2-Hexanone	2.5	U	1.9	2.5	5	ug/L
124-48-1	Dibromochloromethane	0.5	U	0.2	0.5	1	ug/L
106-93-4	1,2-Dibromoethane	0.5	U	0.41	0.5	1	ug/L
127-18-4	Tetrachloroethene	0.5	U	0.27	0.5	1	ug/L
108-90-7	Chlorobenzene	0.5	U	0.49	0.5	1	ug/L
100-41-4	Ethyl Benzene	0.5	U	0.2	0.5	1	ug/L
179601-23-1	m/p-Xylenes	1	U	0.95	1	2	ug/L
95-47-6	o-Xylene	0.5	U	0.43	0.5	1	ug/L
100-42-5	Styrene	0.5	U	0.36	0.5	1	ug/L
75-25-2	Bromoform	0.5	U	0.47	0.5	1	ug/L
98-82-8	Isopropylbenzene	0.5	U	0.45	0.5	1	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.5	U	0.31	0.5	1	ug/L
541-73-1	1,3-Dichlorobenzene	0.5	U	0.43	0.5	1	ug/L
106-46-7	1,4-Dichlorobenzene	0.5	U	0.32	0.5	1	ug/L
95-50-1	1,2-Dichlorobenzene	0.5	U	0.45	0.5	1	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.5	U	0.46	0.5	1	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.5	U	0.2	0.5	1	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.5	U	0.2	0.5	1	ug/L
123-91-1	1,4-Dioxane	100	U	100	100	100	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	57.8		70 - 120		116%	SPK: 50
1868-53-7	Dibromofluoromethane	50.4		85 - 115		101%	SPK: 50
2037-26-5	Toluene-d8	50.5		85 - 120		101%	SPK: 50
460-00-4	4-Bromofluorobenzene	44.7		75 - 120		89%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	407035	7.87				
540-36-3	1,4-Difluorobenzene	674676	8.79				
3114-55-4	Chlorobenzene-d5	590975	11.61				
3855-82-1	1,4-Dichlorobenzene-d4	249121	13.56				

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Report of Analysis

Client:	Impact Environmental	Date Collected:	
Project:	Melody Cleaners	Date Received:	
Client Sample ID:	VN0627WBL01	SDG No.:	E2679
Lab Sample ID:	VN0627WBL01	Matrix:	Water
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN006756.D	1		06/27/13	VN062713

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

Report of Analysis

Client:	Impact Environmental	Date Collected:	
Project:	Melody Cleaners	Date Received:	
Client Sample ID:	VN0626WBS01	SDG No.:	E2679
Lab Sample ID:	VN0626WBS01	Matrix:	Water
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN006709.D	1		06/26/13	VN062613

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	18.3		0.2	0.5	1	ug/L
74-87-3	Chloromethane	18		0.2	0.5	1	ug/L
75-01-4	Vinyl Chloride	20.6		0.34	0.5	1	ug/L
74-83-9	Bromomethane	19.5		0.2	0.5	1	ug/L
75-00-3	Chloroethane	19.3		0.2	0.5	1	ug/L
75-69-4	Trichlorofluoromethane	21.7		0.35	0.5	1	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	21.2		0.45	0.5	1	ug/L
75-35-4	1,1-Dichloroethene	19.7		0.47	0.5	1	ug/L
67-64-1	Acetone	100		0.5	2.5	5	ug/L
75-15-0	Carbon Disulfide	16.6		0.2	0.5	1	ug/L
1634-04-4	Methyl tert-butyl Ether	21.4		0.35	0.5	1	ug/L
79-20-9	Methyl Acetate	23.1		0.2	0.5	1	ug/L
75-09-2	Methylene Chloride	21.4		0.41	0.5	1	ug/L
156-60-5	trans-1,2-Dichloroethene	19.7		0.41	0.5	1	ug/L
75-34-3	1,1-Dichloroethane	22.3		0.36	0.5	1	ug/L
110-82-7	Cyclohexane	19.8		0.2	0.5	1	ug/L
78-93-3	2-Butanone	99.2		1.3	2.5	5	ug/L
56-23-5	Carbon Tetrachloride	20		0.2	0.5	1	ug/L
156-59-2	cis-1,2-Dichloroethene	20.8		0.35	0.5	1	ug/L
74-97-5	Bromochloromethane	25.4		0.2	0.5	1	ug/L
67-66-3	Chloroform	23.2		0.34	0.5	1	ug/L
71-55-6	1,1,1-Trichloroethane	22.6		0.4	0.5	1	ug/L
108-87-2	Methylcyclohexane	18.7		0.2	0.5	1	ug/L
71-43-2	Benzene	20.7		0.32	0.5	1	ug/L
107-06-2	1,2-Dichloroethane	22.4		0.48	0.5	1	ug/L
79-01-6	Trichloroethene	18.9		0.28	0.5	1	ug/L
78-87-5	1,2-Dichloropropane	21.7		0.46	0.5	1	ug/L
75-27-4	Bromodichloromethane	21.8		0.36	0.5	1	ug/L
108-10-1	4-Methyl-2-Pentanone	100		2.1	2.5	5	ug/L
108-88-3	Toluene	20.6		0.37	0.5	1	ug/L
10061-02-6	t-1,3-Dichloropropene	21.5		0.29	0.5	1	ug/L

Report of Analysis

Client:	Impact Environmental	Date Collected:	
Project:	Melody Cleaners	Date Received:	
Client Sample ID:	VN0626WBS01	SDG No.:	E2679
Lab Sample ID:	VN0626WBS01	Matrix:	Water
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN006709.D	1		06/26/13	VN062613

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-01-5	cis-1,3-Dichloropropene	20.7		0.31	0.5	1	ug/L
79-00-5	1,1,2-Trichloroethane	21.5		0.38	0.5	1	ug/L
591-78-6	2-Hexanone	100		1.9	2.5	5	ug/L
124-48-1	Dibromochloromethane	19.7		0.2	0.5	1	ug/L
106-93-4	1,2-Dibromoethane	20.4		0.41	0.5	1	ug/L
127-18-4	Tetrachloroethene	17.9		0.27	0.5	1	ug/L
108-90-7	Chlorobenzene	19.9		0.49	0.5	1	ug/L
100-41-4	Ethyl Benzene	20.8		0.2	0.5	1	ug/L
179601-23-1	m/p-Xylenes	40.7		0.95	1	2	ug/L
95-47-6	o-Xylene	20.4		0.43	0.5	1	ug/L
100-42-5	Styrene	20.5		0.36	0.5	1	ug/L
75-25-2	Bromoform	17.3		0.47	0.5	1	ug/L
98-82-8	Isopropylbenzene	21.4		0.45	0.5	1	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	22.8		0.31	0.5	1	ug/L
541-73-1	1,3-Dichlorobenzene	20.3		0.43	0.5	1	ug/L
106-46-7	1,4-Dichlorobenzene	20.5		0.32	0.5	1	ug/L
95-50-1	1,2-Dichlorobenzene	20.1		0.45	0.5	1	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	23.8		0.46	0.5	1	ug/L
120-82-1	1,2,4-Trichlorobenzene	21.2		0.2	0.5	1	ug/L
87-61-6	1,2,3-Trichlorobenzene	21.6		0.2	0.5	1	ug/L
123-91-1	1,4-Dioxane	440		100	100	100	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	58.6		70 - 120		117%	SPK: 50
1868-53-7	Dibromofluoromethane	51		85 - 115		102%	SPK: 50
2037-26-5	Toluene-d8	51.1		85 - 120		102%	SPK: 50
460-00-4	4-Bromofluorobenzene	52		75 - 120		104%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	353668	7.87				
540-36-3	1,4-Difluorobenzene	598912	8.79				
3114-55-4	Chlorobenzene-d5	544159	11.61				
3855-82-1	1,4-Dichlorobenzene-d4	261912	13.56				

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Report of Analysis

Client:	Impact Environmental	Date Collected:	
Project:	Melody Cleaners	Date Received:	
Client Sample ID:	VN0626WBS01	SDG No.:	E2679
Lab Sample ID:	VN0626WBS01	Matrix:	Water
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN006709.D	1		06/26/13	VN062613

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

Report of Analysis

Client:	Impact Environmental	Date Collected:	
Project:	Melody Cleaners	Date Received:	
Client Sample ID:	VN0627WBS01	SDG No.:	E2679
Lab Sample ID:	VN0627WBS01	Matrix:	Water
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN006757.D	1		06/27/13	VN062713

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	17.9		0.2	0.5	1	ug/L
74-87-3	Chloromethane	17.8		0.2	0.5	1	ug/L
75-01-4	Vinyl Chloride	20.7		0.34	0.5	1	ug/L
74-83-9	Bromomethane	20		0.2	0.5	1	ug/L
75-00-3	Chloroethane	18.1		0.2	0.5	1	ug/L
75-69-4	Trichlorofluoromethane	21.1		0.35	0.5	1	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	21		0.45	0.5	1	ug/L
75-35-4	1,1-Dichloroethene	18.3		0.47	0.5	1	ug/L
67-64-1	Acetone	110		0.5	2.5	5	ug/L
75-15-0	Carbon Disulfide	15.2		0.2	0.5	1	ug/L
1634-04-4	Methyl tert-butyl Ether	21.9		0.35	0.5	1	ug/L
79-20-9	Methyl Acetate	23.9		0.2	0.5	1	ug/L
75-09-2	Methylene Chloride	21.1		0.41	0.5	1	ug/L
156-60-5	trans-1,2-Dichloroethene	18.8		0.41	0.5	1	ug/L
75-34-3	1,1-Dichloroethane	21.8		0.36	0.5	1	ug/L
110-82-7	Cyclohexane	19		0.2	0.5	1	ug/L
78-93-3	2-Butanone	110		1.3	2.5	5	ug/L
56-23-5	Carbon Tetrachloride	19.5		0.2	0.5	1	ug/L
156-59-2	cis-1,2-Dichloroethene	20.4		0.35	0.5	1	ug/L
74-97-5	Bromochloromethane	25.8		0.2	0.5	1	ug/L
67-66-3	Chloroform	23.2		0.34	0.5	1	ug/L
71-55-6	1,1,1-Trichloroethane	22.5		0.4	0.5	1	ug/L
108-87-2	Methylcyclohexane	18.8		0.2	0.5	1	ug/L
71-43-2	Benzene	20.3		0.32	0.5	1	ug/L
107-06-2	1,2-Dichloroethane	23.8		0.48	0.5	1	ug/L
79-01-6	Trichloroethene	18.6		0.28	0.5	1	ug/L
78-87-5	1,2-Dichloropropane	22		0.46	0.5	1	ug/L
75-27-4	Bromodichloromethane	21.5		0.36	0.5	1	ug/L
108-10-1	4-Methyl-2-Pentanone	110		2.1	2.5	5	ug/L
108-88-3	Toluene	20.2		0.37	0.5	1	ug/L
10061-02-6	t-1,3-Dichloropropene	21.1		0.29	0.5	1	ug/L

Report of Analysis

Client:	Impact Environmental	Date Collected:	
Project:	Melody Cleaners	Date Received:	
Client Sample ID:	VN0627WBS01	SDG No.:	E2679
Lab Sample ID:	VN0627WBS01	Matrix:	Water
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN006757.D	1		06/27/13	VN062713

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-01-5	cis-1,3-Dichloropropene	21		0.31	0.5	1	ug/L
79-00-5	1,1,2-Trichloroethane	21.4		0.38	0.5	1	ug/L
591-78-6	2-Hexanone	110		1.9	2.5	5	ug/L
124-48-1	Dibromochloromethane	19.6		0.2	0.5	1	ug/L
106-93-4	1,2-Dibromoethane	20.1		0.41	0.5	1	ug/L
127-18-4	Tetrachloroethene	16.8		0.27	0.5	1	ug/L
108-90-7	Chlorobenzene	19.4		0.49	0.5	1	ug/L
100-41-4	Ethyl Benzene	20.1		0.2	0.5	1	ug/L
179601-23-1	m/p-Xylenes	39.1		0.95	1	2	ug/L
95-47-6	o-Xylene	19.4		0.43	0.5	1	ug/L
100-42-5	Styrene	19.7		0.36	0.5	1	ug/L
75-25-2	Bromoform	17.8		0.47	0.5	1	ug/L
98-82-8	Isopropylbenzene	20.6		0.45	0.5	1	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	23		0.31	0.5	1	ug/L
541-73-1	1,3-Dichlorobenzene	19.9		0.43	0.5	1	ug/L
106-46-7	1,4-Dichlorobenzene	19.4		0.32	0.5	1	ug/L
95-50-1	1,2-Dichlorobenzene	20.3		0.45	0.5	1	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	23.9		0.46	0.5	1	ug/L
120-82-1	1,2,4-Trichlorobenzene	20.9		0.2	0.5	1	ug/L
87-61-6	1,2,3-Trichlorobenzene	20.6		0.2	0.5	1	ug/L
123-91-1	1,4-Dioxane	430		100	100	100	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	59.7		70 - 120		119%	SPK: 50
1868-53-7	Dibromofluoromethane	51.1		85 - 115		102%	SPK: 50
2037-26-5	Toluene-d8	51.3		85 - 120		103%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.6		75 - 120		103%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	320942	7.87				
540-36-3	1,4-Difluorobenzene	541080	8.79				
3114-55-4	Chlorobenzene-d5	496695	11.61				
3855-82-1	1,4-Dichlorobenzene-d4	240752	13.56				

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Report of Analysis

Client:	Impact Environmental	Date Collected:	
Project:	Melody Cleaners	Date Received:	
Client Sample ID:	VN0627WBS01	SDG No.:	E2679
Lab Sample ID:	VN0627WBS01	Matrix:	Water
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN006757.D	1		06/27/13	VN062713

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

Report of Analysis

Client:	Impact Environmental	Date Collected:	06/21/13
Project:	Melody Cleaners	Date Received:	06/25/13
Client Sample ID:	MLW-1ISMS	SDG No.:	E2679
Lab Sample ID:	E2679-05MS	Matrix:	Water
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN006774.D	100		06/28/13	VN062713

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	4200		20	50	100	ug/L
74-87-3	Chloromethane	4200		20	50	100	ug/L
75-01-4	Vinyl Chloride	5400		34	50	100	ug/L
74-83-9	Bromomethane	4800		20	50	100	ug/L
75-00-3	Chloroethane	4600		20	50	100	ug/L
75-69-4	Trichlorofluoromethane	5100		35	50	100	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	4900		45	50	100	ug/L
75-35-4	1,1-Dichloroethene	4600		47	50	100	ug/L
67-64-1	Acetone	24800		50	250	500	ug/L
75-15-0	Carbon Disulfide	3600		20	50	100	ug/L
1634-04-4	Methyl tert-butyl Ether	5800		35	50	100	ug/L
79-20-9	Methyl Acetate	6900		20	50	100	ug/L
75-09-2	Methylene Chloride	5300		41	50	100	ug/L
156-60-5	trans-1,2-Dichloroethene	4700		41	50	100	ug/L
75-34-3	1,1-Dichloroethane	5500		36	50	100	ug/L
110-82-7	Cyclohexane	4800		20	50	100	ug/L
78-93-3	2-Butanone	27900		130	250	500	ug/L
56-23-5	Carbon Tetrachloride	5000		20	50	100	ug/L
156-59-2	cis-1,2-Dichloroethene	5200		35	50	100	ug/L
74-97-5	Bromochloromethane	5900		20	50	100	ug/L
67-66-3	Chloroform	5800		34	50	100	ug/L
71-55-6	1,1,1-Trichloroethane	5700		40	50	100	ug/L
108-87-2	Methylcyclohexane	4200		20	50	100	ug/L
71-43-2	Benzene	4900		32	50	100	ug/L
107-06-2	1,2-Dichloroethane	5600		48	50	100	ug/L
79-01-6	Trichloroethene	4500		28	50	100	ug/L
78-87-5	1,2-Dichloropropane	5200		46	50	100	ug/L
75-27-4	Bromodichloromethane	5400		36	50	100	ug/L
108-10-1	4-Methyl-2-Pentanone	29400		210	250	500	ug/L
108-88-3	Toluene	5000		37	50	100	ug/L
10061-02-6	t-1,3-Dichloropropene	5100		29	50	100	ug/L

Report of Analysis

Client:	Impact Environmental	Date Collected:	06/21/13
Project:	Melody Cleaners	Date Received:	06/25/13
Client Sample ID:	MLW-1ISMS	SDG No.:	E2679
Lab Sample ID:	E2679-05MS	Matrix:	Water
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN006774.D	100		06/28/13	VN062713

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-01-5	cis-1,3-Dichloropropene	4900		31	50	100	ug/L
79-00-5	1,1,2-Trichloroethane	5400		38	50	100	ug/L
591-78-6	2-Hexanone	28500		190	250	500	ug/L
124-48-1	Dibromochloromethane	5000		20	50	100	ug/L
106-93-4	1,2-Dibromoethane	5100		41	50	100	ug/L
127-18-4	Tetrachloroethene	5400		27	50	100	ug/L
108-90-7	Chlorobenzene	4800		49	50	100	ug/L
100-41-4	Ethyl Benzene	5000		20	50	100	ug/L
179601-23-1	m/p-Xylenes	9700		95	100	200	ug/L
95-47-6	o-Xylene	4900		43	50	100	ug/L
100-42-5	Styrene	5100		36	50	100	ug/L
75-25-2	Bromoform	4600		47	50	100	ug/L
98-82-8	Isopropylbenzene	5000		45	50	100	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	5700		31	50	100	ug/L
541-73-1	1,3-Dichlorobenzene	4700		43	50	100	ug/L
106-46-7	1,4-Dichlorobenzene	4700		32	50	100	ug/L
95-50-1	1,2-Dichlorobenzene	4800		45	50	100	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	6200		46	50	100	ug/L
120-82-1	1,2,4-Trichlorobenzene	4700		20	50	100	ug/L
87-61-6	1,2,3-Trichlorobenzene	4600		20	50	100	ug/L
123-91-1	1,4-Dioxane	113800		10000	10000	10000	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	63.6	*	70 - 120		127%	SPK: 50
1868-53-7	Dibromofluoromethane	51.9		85 - 115		104%	SPK: 50
2037-26-5	Toluene-d8	52		85 - 120		104%	SPK: 50
460-00-4	4-Bromofluorobenzene	54.9		75 - 120		110%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	319840	7.87				
540-36-3	1,4-Difluorobenzene	564614	8.79				
3114-55-4	Chlorobenzene-d5	525355	11.61				
3855-82-1	1,4-Dichlorobenzene-d4	259600	13.56				

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Report of Analysis

Client:	Impact Environmental	Date Collected:	06/21/13
Project:	Melody Cleaners	Date Received:	06/25/13
Client Sample ID:	MLW-1ISMS	SDG No.:	E2679
Lab Sample ID:	E2679-05MS	Matrix:	Water
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN006774.D	100		06/28/13	VN062713

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

Report of Analysis

Client:	Impact Environmental	Date Collected:	06/21/13
Project:	Melody Cleaners	Date Received:	06/25/13
Client Sample ID:	MLW-1ISMSD	SDG No.:	E2679
Lab Sample ID:	E2679-06MSD	Matrix:	Water
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN006775.D	100		06/28/13	VN062713

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	4500		20	50	100	ug/L
74-87-3	Chloromethane	4400		20	50	100	ug/L
75-01-4	Vinyl Chloride	5400		34	50	100	ug/L
74-83-9	Bromomethane	5000		20	50	100	ug/L
75-00-3	Chloroethane	4800		20	50	100	ug/L
75-69-4	Trichlorofluoromethane	5200		35	50	100	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	5100		45	50	100	ug/L
75-35-4	1,1-Dichloroethene	4600		47	50	100	ug/L
67-64-1	Acetone	25300		50	250	500	ug/L
75-15-0	Carbon Disulfide	3900		20	50	100	ug/L
1634-04-4	Methyl tert-butyl Ether	5900		35	50	100	ug/L
79-20-9	Methyl Acetate	6700		20	50	100	ug/L
75-09-2	Methylene Chloride	5400		41	50	100	ug/L
156-60-5	trans-1,2-Dichloroethene	4900		41	50	100	ug/L
75-34-3	1,1-Dichloroethane	5500		36	50	100	ug/L
110-82-7	Cyclohexane	4900		20	50	100	ug/L
78-93-3	2-Butanone	27600		130	250	500	ug/L
56-23-5	Carbon Tetrachloride	5200		20	50	100	ug/L
156-59-2	cis-1,2-Dichloroethene	5300		35	50	100	ug/L
74-97-5	Bromochloromethane	5900		20	50	100	ug/L
67-66-3	Chloroform	5800		34	50	100	ug/L
71-55-6	1,1,1-Trichloroethane	5700		40	50	100	ug/L
108-87-2	Methylcyclohexane	4400		20	50	100	ug/L
71-43-2	Benzene	5000		32	50	100	ug/L
107-06-2	1,2-Dichloroethane	5500		48	50	100	ug/L
79-01-6	Trichloroethene	4600		28	50	100	ug/L
78-87-5	1,2-Dichloropropane	5300		46	50	100	ug/L
75-27-4	Bromodichloromethane	5400		36	50	100	ug/L
108-10-1	4-Methyl-2-Pentanone	29300		210	250	500	ug/L
108-88-3	Toluene	5000		37	50	100	ug/L
10061-02-6	t-1,3-Dichloropropene	5100		29	50	100	ug/L

Report of Analysis

Client:	Impact Environmental	Date Collected:	06/21/13
Project:	Melody Cleaners	Date Received:	06/25/13
Client Sample ID:	MLW-1ISMSD	SDG No.:	E2679
Lab Sample ID:	E2679-06MSD	Matrix:	Water
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN006775.D	100		06/28/13	VN062713

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-01-5	cis-1,3-Dichloropropene	5000		31	50	100	ug/L
79-00-5	1,1,2-Trichloroethane	5400		38	50	100	ug/L
591-78-6	2-Hexanone	28700		190	250	500	ug/L
124-48-1	Dibromochloromethane	5100		20	50	100	ug/L
106-93-4	1,2-Dibromoethane	5200		41	50	100	ug/L
127-18-4	Tetrachloroethene	5400		27	50	100	ug/L
108-90-7	Chlorobenzene	4800		49	50	100	ug/L
100-41-4	Ethyl Benzene	5100		20	50	100	ug/L
179601-23-1	m/p-Xylenes	9800		95	100	200	ug/L
95-47-6	o-Xylene	5000		43	50	100	ug/L
100-42-5	Styrene	5100		36	50	100	ug/L
75-25-2	Bromoform	4600		47	50	100	ug/L
98-82-8	Isopropylbenzene	5100		45	50	100	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	5700		31	50	100	ug/L
541-73-1	1,3-Dichlorobenzene	4800		43	50	100	ug/L
106-46-7	1,4-Dichlorobenzene	4800		32	50	100	ug/L
95-50-1	1,2-Dichlorobenzene	4800		45	50	100	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	6400		46	50	100	ug/L
120-82-1	1,2,4-Trichlorobenzene	4800		20	50	100	ug/L
87-61-6	1,2,3-Trichlorobenzene	4800		20	50	100	ug/L
123-91-1	1,4-Dioxane	111600		10000	10000	10000	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	61.3	*	70 - 120		123%	SPK: 50
1868-53-7	Dibromofluoromethane	51.2		85 - 115		102%	SPK: 50
2037-26-5	Toluene-d8	51.5		85 - 120		103%	SPK: 50
460-00-4	4-Bromofluorobenzene	53.4		75 - 120		107%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	326559	7.87				
540-36-3	1,4-Difluorobenzene	578053	8.79				
3114-55-4	Chlorobenzene-d5	538542	11.61				
3855-82-1	1,4-Dichlorobenzene-d4	264090	13.56				

Report of Analysis

Client:	Impact Environmental	Date Collected:	06/21/13
Project:	Melody Cleaners	Date Received:	06/25/13
Client Sample ID:	MLW-1ISMSD	SDG No.:	E2679
Lab Sample ID:	E2679-06MSD	Matrix:	Water
Analytical Method:	SW8260C	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN006775.D	100		06/28/13	VN062713

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

CALIBRATION SUMMARY

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: IMPA01

Lab Code: CHEM Case No.: E2679 SAS No.: E2679 SDG No.: E2679

Instrument ID: MSVOA_N Calibration Date(s): 06/17/2013 06/17/2013

Heated Purge: (Y/N) N Calibration Time(s): 10:15 12:38

GC Column: RXI-624 ID: 0.25 (mm)

LAB FILE ID: RRF001 = VN006507.D RRF005 = VN006508.D RRF020 = VN006509.D
RRF050 = VN006510.D RRF100 = VN006511.D RRF200 = VN006512.D

COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	RRF200	$\overline{RRF}$	% RSD
Dichlorodifluoromethane	0.390	0.391	0.423	0.412	0.396	0.401	0.402	3.2
Chloromethane	0.525	0.439	0.412	0.406	0.392	0.405	0.430	11.4
Vinyl Chloride	0.612	0.576	0.571	0.576	0.541	0.536	0.569	4.9
Bromomethane	0.398	0.333	0.315	0.313	0.272	0.285	0.319	13.9
Chloroethane	0.328	0.317	0.296	0.298	0.283	0.282	0.301	6.2
Trichlorofluoromethane	0.781	0.788	0.756	0.728	0.706	0.713	0.745	4.7
1,1,2-Trichlorotrifluoroethane	0.457	0.465	0.451	0.433	0.418	0.422	0.441	4.4
1,1-Dichloroethene	0.501	0.459	0.446	0.439	0.434	0.440	0.453	5.5
Acetone	0.206	0.209	0.144	0.146	0.148	0.143	0.166	19.5
Carbon Disulfide	1.395	1.325	1.285	1.281	1.245	1.268	1.300	4.1
Methyl tert-butyl Ether	1.347	1.403	1.334	1.365	1.353	1.376	1.363	1.8
Methyl Acetate	0.465	0.544	0.538	0.570	0.595	0.594	0.551	8.8
Methylene Chloride	0.550	0.527	0.506	0.510	0.494	0.496	0.514	4.1
trans-1,2-Dichloroethene	0.530	0.537	0.506	0.499	0.482	0.497	0.508	4.1
1,1-Dichloroethane	0.875	0.853	0.800	0.791	0.766	0.776	0.810	5.4
Cyclohexane	1.466	0.830	0.712	0.688	0.649	0.649	0.832	38.1
2-Butanone	0.205	0.237	0.188	0.199	0.208	0.204	0.207	7.9
Carbon Tetrachloride	0.392	0.392	0.379	0.398	0.392	0.406	0.393	2.3
cis-1,2-Dichloroethene	0.622	0.613	0.575	0.576	0.564	0.577	0.588	4
Bromochloromethane	0.296	0.347	0.357	0.345	0.332	0.318	0.332	6.7
Chloroform	0.917	0.957	0.887	0.897	0.869	0.881	0.901	3.5
1,1,1-Trichloroethane	0.788	0.803	0.792	0.785	0.773	0.786	0.788	1.2
Methylcyclohexane	0.522	0.497	0.521	0.498	0.493	0.498	0.505	2.6
Benzene	1.319	1.224	1.221	1.204	1.179	1.193	1.223	4.1
1,2-Dichloroethane	0.408	0.394	0.382	0.382	0.376	0.379	0.387	3.2
Trichloroethene	0.352	0.366	0.358	0.353	0.354	0.360	0.357	1.4
1,2-Dichloropropane	0.300	0.305	0.297	0.293	0.284	0.289	0.294	2.6
Bromodichloromethane	0.441	0.444	0.424	0.421	0.416	0.426	0.429	2.6
4-Methyl-2-Pentanone	0.223	0.240	0.242	0.258	0.272	0.267	0.250	7.5
Toluene	0.798	0.778	0.795	0.796	0.791	0.811	0.795	1.3
t-1,3-Dichloropropene	0.416	0.421	0.438	0.453	0.464	0.483	0.446	5.8
cis-1,3-Dichloropropene	0.482	0.477	0.487	0.491	0.494	0.510	0.490	2.3
1,1,2-Trichloroethane	0.319	0.326	0.321	0.323	0.320	0.326	0.323	1

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: IMPA01

Lab Code: CHEM Case No.: E2679 SAS No.: E2679 SDG No.: E2679

Instrument ID: MSVOA_N Calibration Date(s): 06/17/2013 06/17/2013

Heated Purge: (Y/N) N Calibration Time(s): 10:15 12:38

GC Column: RXI-624 ID: 0.25 (mm)

LAB FILE ID: RRF001 = VN006507.D RRF005 = VN006508.D RRF020 = VN006509.D
RRF050 = VN006510.D RRF100 = VN006511.D RRF200 = VN006512.D

COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	RRF200	$\overline{RRF}$	% RSD
2-Hexanone	0.157	0.188	0.172	0.185	0.198	0.189	0.182	8
Dibromochloromethane	0.354	0.357	0.360	0.374	0.376	0.392	0.369	4
1,2-Dibromoethane	0.342	0.332	0.340	0.345	0.346	0.350	0.342	1.8
Tetrachloroethene	0.373	0.350	0.352	0.327	0.328	0.335	0.344	5.1
Chlorobenzene	1.181	1.073	1.033	1.010	1.009	1.028	1.056	6.2
Ethyl Benzene	1.651	1.607	1.635	1.618	1.629	1.670	1.635	1.4
m/p-Xylenes	0.667	0.620	0.640	0.636	0.650	0.665	0.646	2.8
o-Xylene	0.639	0.613	0.627	0.632	0.646	0.665	0.637	2.8
Styrene	0.902	0.898	0.986	1.021	1.060	1.097	0.994	8.2
Bromoform	0.265	0.274	0.280	0.296	0.311	0.310	0.289	6.7
Isopropylbenzene	3.448	3.447	3.366	3.232	3.189	3.517	3.367	3.9
1,1,2,2-Tetrachloroethane	1.007	1.034	0.941	0.919	0.898	0.904	0.950	6
1,3-Dichlorobenzene	1.757	1.653	1.628	1.586	1.580	1.659	1.644	3.9
1,4-Dichlorobenzene	1.834	1.667	1.618	1.597	1.569	1.623	1.651	5.8
1,2-Dichlorobenzene	1.744	1.622	1.559	1.549	1.520	1.543	1.590	5.2
1,2-Dibromo-3-Chloropropane	0.134	0.156	0.164	0.167	0.160	0.153	0.156	7.6
1,2,4-Trichlorobenzene	0.910	1.005	1.029	0.996	0.904	0.944	0.965	5.5
1,2,3-Trichlorobenzene	0.867	0.953	0.993	0.961	0.873	0.926	0.929	5.4
1,2-Dichloroethane-d4	0.603	0.551	0.555	0.542	0.529	0.525	0.551	5.1
Dibromofluoromethane	0.362	0.312	0.324	0.311	0.306	0.308	0.321	6.7
Toluene-d8	1.283	1.174	1.250	1.205	1.201	1.207	1.220	3.2
4-Bromofluorobenzene	0.492	0.370	0.417	0.405	0.414	0.412	0.418	9.6
1,4-Dioxane		0.004	0.004	0.004	0.005	0.004	0.004	2.8

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: IMPA01

Lab Code: CHEM Case No.: E2679 SAS No.: E2679 SDG No.: E2679

Instrument ID: MSVOA_N Calibration Date/Time: 06/26/2013 12:46

Lab File ID: VN006707.D Init. Calib. Date(s): 06/17/2013 06/17/2013

Heated Purge: (Y/N) N Init. Calib. Time(s): 10:15 12:38

GC Column: RXI-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.402	0.384		-4.48	20
Chloromethane	0.430	0.383	0.1	-10.93	20
Vinyl Chloride	0.569	0.596		4.74	20
Bromomethane	0.319	0.301		-5.64	20
Chloroethane	0.301	0.290		-3.65	20
Trichlorofluoromethane	0.745	0.807		8.32	20
1,1,2-Trichlorotrifluoroethane	0.441	0.480		8.84	20
1,1-Dichloroethene	0.453	0.439		-3.09	20
Acetone	0.166	0.168		1.21	20
Carbon Disulfide	1.300	1.076		-17.23	20
Methyl tert-butyl Ether	1.363	1.527		12.03	20
Methyl Acetate	0.551	0.656		19.06	20
Methylene Chloride	0.514	0.548		6.61	20
trans-1,2-Dichloroethene	0.508	0.506		-0.39	20
1,1-Dichloroethane	0.810	0.875	0.1	8.02	20
Cyclohexane	0.832	0.686		-17.55	20
2-Butanone	0.207	0.222		7.25	20
Carbon Tetrachloride	0.393	0.411		4.58	20
cis-1,2-Dichloroethene	0.588	0.613		4.25	20
Bromochloromethane	0.332	0.364		9.64	20
Chloroform	0.901	1.028		14.1	20
1,1,1-Trichloroethane	0.788	0.889		12.82	20
Methylcyclohexane	0.505	0.502		-0.59	20
Benzene	1.223	1.271		3.92	20
1,2-Dichloroethane	0.387	0.434		12.15	20
Trichloroethene	0.357	0.344		-3.64	20
1,2-Dichloropropane	0.294	0.322		9.52	20
Bromodichloromethane	0.429	0.476		10.96	20
4-Methyl-2-Pentanone	0.250	0.281		12.4	20
Toluene	0.795	0.835		5.03	20
t-1,3-Dichloropropene	0.446	0.498		11.66	20
cis-1,3-Dichloropropene	0.490	0.531		8.37	20
1,1,2-Trichloroethane	0.323	0.357		10.53	20
2-Hexanone	0.182	0.206		13.19	20
Dibromochloromethane	0.369	0.385		4.34	20
1,2-Dibromoethane	0.342	0.357		4.39	20
Tetrachloroethene	0.344	0.299		-13.08	20
Chlorobenzene	1.056	1.054	0.3	-0.19	20
Ethyl Benzene	1.635	1.769		8.2	20
m/p-Xylenes	0.646	0.680		5.26	20
o-Xylene	0.637	0.681		6.91	20
Styrene	0.994	1.103		10.97	20

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: IMPA01

Lab Code: CHEM Case No.: E2679 SAS No.: E2679 SDG No.: E2679

Instrument ID: MSVOA_N Calibration Date/Time: 06/26/2013 12:46

Lab File ID: VN006707.D Init. Calib. Date(s): 06/17/2013 06/17/2013

Heated Purge: (Y/N) N Init. Calib. Time(s): 10:15 12:38

GC Column: RXI-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Bromoform	0.289	0.271	0.1	-6.23	20
Isopropylbenzene	3.367	3.586		6.5	20
1,1,2,2-Tetrachloroethane	0.950	1.071	0.3	12.74	20
1,3-Dichlorobenzene	1.644	1.686		2.56	20
1,4-Dichlorobenzene	1.651	1.679		1.7	20
1,2-Dichlorobenzene	1.590	1.635		2.83	20
1,2-Dibromo-3-Chloropropane	0.156	0.189		21.15	20
1,2,4-Trichlorobenzene	0.965	1.003		3.94	20
1,2,3-Trichlorobenzene	0.929	0.939		1.08	20
1,2-Dichloroethane-d4	0.551	0.616		11.8	20
Dibromofluoromethane	0.321	0.328		2.18	20
Toluene-d8	1.220	1.252		2.62	20
4-Bromofluorobenzene	0.418	0.448		7.18	20
1,4-Dioxane	0.004	0.005	0.05	25	50

All other compounds must meet a minimum RRF of 0.010.

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: IMPA01

Lab Code: CHEM Case No.: E2679 SAS No.: E2679 SDG No.: E2679

Instrument ID: MSVOA_N Calibration Date/Time: 06/27/2013 14:55

Lab File ID: VN006755.D Init. Calib. Date(s): 06/17/2013 06/17/2013

Heated Purge: (Y/N) N Init. Calib. Time(s): 10:15 12:38

GC Column: RXI-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.402	0.365		-9.2	20
Chloromethane	0.430	0.401	0.1	-6.74	20
Vinyl Chloride	0.569	0.606		6.5	20
Bromomethane	0.319	0.297		-6.9	20
Chloroethane	0.301	0.296		-1.66	20
Trichlorofluoromethane	0.745	0.813		9.13	20
1,1,2-Trichlorotrifluoroethane	0.441	0.488		10.66	20
1,1-Dichloroethene	0.453	0.443		-2.21	20
Acetone	0.166	0.167		0.6	20
Carbon Disulfide	1.300	1.031		-20.69	20
Methyl tert-butyl Ether	1.363	1.537		12.77	20
Methyl Acetate	0.551	0.660		19.78	20
Methylene Chloride	0.514	0.544		5.84	20
trans-1,2-Dichloroethene	0.508	0.496		-2.36	20
1,1-Dichloroethane	0.810	0.892	0.1	10.12	20
Cyclohexane	0.832	0.696		-16.35	20
2-Butanone	0.207	0.222		7.25	20
Carbon Tetrachloride	0.393	0.421		7.13	20
cis-1,2-Dichloroethene	0.588	0.626		6.46	20
Bromochloromethane	0.332	0.378		13.85	20
Chloroform	0.901	1.063		17.98	20
1,1,1-Trichloroethane	0.788	0.915		16.12	20
Methylcyclohexane	0.505	0.512		1.39	20
Benzene	1.223	1.284		4.99	20
1,2-Dichloroethane	0.387	0.453		17.05	20
Trichloroethene	0.357	0.345		-3.36	20
1,2-Dichloropropane	0.294	0.326		10.88	20
Bromodichloromethane	0.429	0.489		13.99	20
4-Methyl-2-Pentanone	0.250	0.287		14.8	20
Toluene	0.795	0.846		6.41	20
t-1,3-Dichloropropene	0.446	0.508		13.9	20
cis-1,3-Dichloropropene	0.490	0.541		10.41	20
1,1,2-Trichloroethane	0.323	0.362		12.07	20
2-Hexanone	0.182	0.208		14.29	20
Dibromochloromethane	0.369	0.382		3.52	20
1,2-Dibromoethane	0.342	0.362		5.85	20
Tetrachloroethene	0.344	0.311		-9.59	20
Chlorobenzene	1.056	1.077	0.3	1.99	20
Ethyl Benzene	1.635	1.809		10.64	20
m/p-Xylenes	0.646	0.701		8.51	20
o-Xylene	0.637	0.682		7.06	20
Styrene	0.994	1.115		12.17	20

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: IMPA01

Lab Code: CHEM Case No.: E2679 SAS No.: E2679 SDG No.: E2679

Instrument ID: MSVOA_N Calibration Date/Time: 06/27/2013 14:55

Lab File ID: VN006755.D Init. Calib. Date(s): 06/17/2013 06/17/2013

Heated Purge: (Y/N) N Init. Calib. Time(s): 10:15 12:38

GC Column: RXI-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Bromoform	0.289	0.275	0.1	-4.84	20
Isopropylbenzene	3.367	3.552		5.49	20
1,1,2,2-Tetrachloroethane	0.950	1.064	0.3	12	20
1,3-Dichlorobenzene	1.644	1.692		2.92	20
1,4-Dichlorobenzene	1.651	1.699		2.91	20
1,2-Dichlorobenzene	1.590	1.648		3.65	20
1,2-Dibromo-3-Chloropropane	0.156	0.182		16.67	20
1,2,4-Trichlorobenzene	0.965	1.009		4.56	20
1,2,3-Trichlorobenzene	0.929	0.931		0.22	20
1,2-Dichloroethane-d4	0.551	0.634		15.06	20
Dibromofluoromethane	0.321	0.320		-0.31	20
Toluene-d8	1.220	1.240		1.64	20
4-Bromofluorobenzene	0.418	0.444		6.22	20
1,4-Dioxane	0.004	0.005	0.05	25	50

All other compounds must meet a minimum RRF of 0.010.

SHIPPING DOCUMENTS

CHEMTECH
CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 Fax (908) 789-8922
www.chemtech.net

CHEMTECH PROJECT NO. ~~EZ69~~
QUOTE NO.
COC Number 029323 EZ679

CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: Impact Environmental
ADDRESS: 170 Keyland Court
CITY: Bohemia STATE: NY ZIP: 11716
ATTENTION: Michael Blvight
PHONE: 631-269-8800 FAX: 631-269-1599

CLIENT PROJECT INFORMATION

PROJECT NAME: Melody Cleaners
PROJECT NO.: 04-455 LOCATION: East Meadow New York
PROJECT MANAGER: Michael Blvight
e-mail: mblvight@impactenvironmental.com
PHONE: 631-269-8800 FAX: 631-269-1599

CLIENT BILLING INFORMATION

BILL TO: Impact Environmental PO#:
ADDRESS: 170 Keyland Court
CITY: Bohemia STATE: NY ZIP: 11716
ATTENTION: Michael Blvight PHONE: 631-269-8800

DATA TURNAROUND INFORMATION

FAX: _____ DAYS *
HARD COPY: Standard DAYS *
EDD: _____ DAYS *
PREAPPROVED TAT: ☐ YES ☐ NO
* STANDARD TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

☐ LEVEL 1: Results only
☒ Others NYS Cat B Deliverables package
☐ LEVEL 2: Results + QC
☐ LEVEL 3: Results (plus results raw data) + QC
☐ LEVEL 4: Results + QC (all raw data)
☒ EDD Format: NYSDEC Equis

ANALYSIS

VOCs 8260 low MW

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	PRESERVATIVES A/E 1	2	3	4	5	6	7	8	9	COMMENTS
1. 1	MLW-1D	water		X	6-21-13	12:10	3	X									
2. 2	MLW-1ID	water		X	6-21-13	12:10	3	X									
3. 3 MS	~~MLW-1ID~~ Dup-1	water		X	6-21-13	12:10	3	X									
4. 4,5,6	MLW-1IS	water		X	6-21-13	12:~~30~~	9	X									9 bottles MS/MSD
5. 7	MLW-2D	water		X	6-21-13	07:50	3	X									
6. 8	MLW-2I	water		X	6-21-13	07:55	3	X									
7. 9	MLW-3D	water		X	6-21-13	08:30	3	X									
8. 10	MLW-3I	water		X	6-21-13	08:30	3	X									
9. 11	MLW-6D	water		X	6-21-13	10:10	3	X									
10. 12	MLW-6I	water		X	6-21-13	10:10	3	X									

PRESERVATIVES: A-HCl B-HNO_3 C-H_2SO_4 D-NaOH E-ICE F-Other

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

	RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
1.	[signature]	6/24/13 15:00	1.
2.	RELINQUISHED BY:	DATE/TIME:	RECEIVED BY: 2.
3.	RELINQUISHED BY: UPS	DATE/TIME: 6/25/13 1010	RECEIVED FOR LAB BY: 3. PS

Conditions of bottles or coolers at receipt: ☒ Compliant ☐ Non Compliant
MeOH extraction requires an additional 4oz jar for percent solid.
Comments:

Cooler Temp. 6°C
Ice in Cooler?: Y

Page 3 of 4

SHIPPED VIA: CLIENT: ☐ HAND DELIVERED ☒ OVERNIGHT
CHEMTECH: ☐ PICKED UP ☐ OVERNIGHT

Shipment Complete: ☒ YES ☐ NO

CHEMTECH
CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 Fax (908) 789-8922
www.chemtech.net

CHEMTECH PROJECT NO. EZ679
QUOTE NO.
COC Number 029325

CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: Impact Environmental
ADDRESS: 170 Keyland Court
CITY: Bohemia STATE: NY ZIP: 11716
ATTENTION: michael Blught
PHONE: 631-269-8800 FAX: 631-269-1599

CLIENT PROJECT INFORMATION

PROJECT NAME: Melody Cleaners
PROJECT NO.: 04-455 LOCATION: East Meadow New York
PROJECT MANAGER: Michael Blught
e-mail: mblught@impactenvironmental.com
PHONE: 631-269-8800 FAX: 631-269-1599

CLIENT BILLING INFORMATION

BILL TO: Impact Environmental PO#:
ADDRESS: 170 Keyland Court
CITY: Bohemia STATE: NY ZIP: 11716
ATTENTION: michael Blught PHONE: 631-269-8800

DATA TURNAROUND INFORMATION

FAX: _____ DAYS *
HARD COPY: Standard DAYS *
EDD: _____ DAYS *
PREAPPROVED TAT: ☐ YES ☐ NO
* STANDARD TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

☐ LEVEL 1: Results only ☒ Others NYS Cat B Deliverables Package
☐ LEVEL 2: Results + QC
☐ LEVEL 3: Results (plus results raw data) + QC
☐ LEVEL 4: Results + QC (all raw data)
☒ EDD Format: NYSDEC Equis

ANALYSIS

VOCs 8260 Low MDL

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	PRESERVATIVES A/E 1	2	3	4	5	6	7	8	9	COMMENTS
1. 13	Trip Blank	Water		X	~~6/21/13~~		2	X									
2.																	
3.																	
4.																	
5.																	
6.																	
7.																	
8.																	
9.																	
10.																	

← Specify Preservatives
A – HCl B – HNO_3
C – H_2SO_4 D – NaOH
E – ICE F – Other

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

	DATE/TIME	RECEIVED BY
1. RELINQUISHED BY SAMPLER:	6/24/13 15:00	1.
2. RELINQUISHED BY:	DATE/TIME:	2. RECEIVED BY:
3. RELINQUISHED BY: UPS	DATE/TIME: 6/25/13 1010	3. RECEIVED FOR LAB BY: PS

Conditions of bottles or coolers at receipt: ☐ Compliant ☐ Non Compliant
MeOH extraction requires an additional 4 oz jar for percent solid.
Comments:

Cooler Temp. 6 °C
Ice in Cooler?: X

Page 4 of 4

SHIPPED VIA: CLIENT: ☐ HAND DELIVERED ☒ OVERNIGHT
CHEMTECH: ☐ PICKED UP ☐ OVERNIGHT

Shipment Complete: ☒ YES ☐ NO

FROM: 35 LBS 1 OF 1
CORINNE JACOBY
(631) 269-8800
IMPACT ENVIRONMENTAL
170 KEYLAND CT
BOHEMIA NY 11716

SHIP TO:
CHEMTECH
284 SHEFFIELD ST
MOUNTAINSIDE NJ 07092

NJ 078 9-61

UPS NEXT DAY AIR **1**
TRACKING #: 1Z R1A 364 01 5928 1218

BILLING: P/P

PS
6/25/13 1010

WS 16.0.31 39.0A 04/2013

Fold here and place in label pouch

Copy
Original Documents are included in CSF E2678

Signature

6/25/13
Date

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

State	License No.
New Jersey	20012
New York	11376
Connecticut	PH-0649
Florida	E87935
Maryland	296
Massachusetts	M-NJ503
Oklahoma	9705
Pennsylvania	68-548
Rhode Island	LAO00259
Virginia	460220
Texas	T10470448-10-1

Other:

DOD ELAP	L2219
Soil Permit	P330-11-00012
CLP Inorganic Contract	EPW09038
CLP Organic Contract	EPW11030

QA Control Code: A2070148

LOGIN REPORT/SAMPLE TRANSFER

Order ID:	E2679 IMPA01	**Order Date:**	6/25/2013	**Project Mgr:**	Palak
Client Name:	Impact Environmental	**Project Name:**	Melody Cleaners	**Report Type:**	NYS ASP B
Client Contact:	Michael Bluight	**Rec DateTime**	6/25/2013 10:10:00 AM	**EDD:**	Equis_EQNYDEC/Excel
Invoice Name:	Impact Environmental	**Purchase Order:**	04-455	**Hard Copy Date:**	
Invoice Contact:	Michael Bluight	**Login Tech:**	Nikul	**Date Signoff:**	6/25/2013 2:29:48 PM

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	QTY	TEST	TEST GROUP	METHOD	COMMENT	FAX DATE	Due Dates
E2679-01	MLW-1D	Water	6/21/2013	12:10	3	VOC-TCLVOA-10		8260-Low	10 Bus.	7/5/2013	7/5/201
E2679-02	MLW-1ID	Water	6/21/2013	12:10	3	VOC-TCLVOA-10		8260-Low	10 Bus.	7/5/2013	7/5/201
E2679-03	DUP-1	Water	6/21/2013	12:10	3	VOC-TCLVOA-10		8260-Low	10 Bus.	7/5/2013	7/5/201
E2679-04	MLW-1IS	Water	6/21/2013	12:20	3	VOC-TCLVOA-10		8260-Low	10 Bus.	7/5/2013	7/5/201
E2679-05	E2679-04MS	Water	6/21/2013	12:20	3	VOC-TCLVOA-10		8260-Low	10 Bus.	7/5/2013	7/5/201
E2679-06	E2679-04MSD	Water	6/21/2013	12:20	3	VOC-TCLVOA-10		8260-Low	10 Bus.	7/5/2013	7/5/201
E2679-07	MLW-2D	Water	6/21/2013	7:50	3	VOC-TCLVOA-10		8260-Low	10 Bus.	7/5/2013	7/5/201
E2679-08	MLW-2I	Water	6/21/2013	7:55	3	VOC-TCLVOA-10		8260-Low	10 Bus.	7/5/2013	7/5/201
E2679-09	MLW-3D	Water	6/21/2013	8:30	3	VOC-TCLVOA-10		8260-Low	10 Bus.	7/5/2013	7/5/201
E2679-10	MLW-3I	Water	6/21/2013	8:30	3	VOC-TCLVOA-10		8260-Low	10 Bus.	7/5/2013	7/5/201
E2679-11	MLW-6D	Water	6/21/2013	10:10	3	VOC-TCLVOA-10		8260-Low	10 Bus.	7/5/2013	7/5/201

LOGIN REPORT/SAMPLE TRANSFER

Order ID:	E2679 IMPA01	**Order Date:**	6/25/2013	**Project Mgr:**	Palak
Client Name:	Impact Environmental	**Project Name:**	Melody Cleaners	**Report Type:**	NYS ASP B
Client Contact:	Michael Bluight	**Rec DateTime**	6/25/2013 10:10:00 AM	**EDD:**	Equis_EQNYDEC/Excel
Invoice Name:	Impact Environmental	**Purchase Order:**	04-455	**Hard Copy Date:**	
Invoice Contact:	Michael Bluight	**Login Tech:**	Nikul	**Date Signoff:**	6/25/2013 2:29:48 PM

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	QTY	TEST	TEST GROUP	METHOD	COMMENT	FAX DATE	Due Dates
E2679-12	MLW-6I	Water	6/21/2013	10:10	3						
						VOC-TCLVOA-10		8260-Low	10 Bus.	7/5/2013	7/5/201
E2679-13	TRIPBLANK	Water	6/21/2013	12:20	2						
						VOC-TCLVOA-10		8260-Low	10 Bus.	7/5/2013	7/5/201

SAMPLE CONDITION RECORD

Are samples submitted with a chain of custody?	Yes
Are the number of samples the same as stated on the chain of custody?	Yes
Are bottle caps tight and securely in place?	Yes
Were all containers intact when received?	Yes
Were samples submitted in an ice chest?	Yes
Were samples received cold?	Yes
Were samples within the holding time for the requested test(s)?	Yes
Is the volume of sample submitted sufficient for the requested test(s)?	Yes
Are all samples for volatile organic analyses free of headspace?	Yes

ORDER COMMENT

Relinquished By: PS

Date / Time: 6/25/13 1620

Received By: [signature]

Date / Time: 6/25/13 1620

Storage Area: VOA Refridgerator Room

CHEMTECH 284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

ANALYTICAL RESULTS SUMMARY

GENERAL CHEMISTRY
METALS

PROJECT NAME : MELODY CLEANERS

IMPACT ENVIRONMENTAL

170 Keyland Court

Bohemia, NY - 11716

Phone No: 631-269-8800

ORDER ID : E2710

ATTENTION : Michael Bluight

ACCREDITED IN ACCORDANCE WITH nelac

DoD ELAP

Table Of Contents for E2710

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Cover Page

Order ID : E2710

Project ID : Melody Cleaners

Client : Impact Environmental

Lab Sample Number	Client Sample Number
E2710-01	IW-3S
E2710-02	IW-3D
E2710-03	MLW-1IS
E2710-04	MLW-1ID
E2710-05	MLW-1D
E2710-06	SW-1
E2710-07	SVE-2

I certify that the data package is in compliance with the terms and conditions of the contract,both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Signature : _____ Date: 7/17/2013

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

FORM S-I

SAMPLE IDENTIFICATION AND ANALYTICAL REQUIREMENT SUMMARY

NYSDEC Sample ID/Code	Laboratory Sample ID/Code	VOA GC/MS (Method #)	BNA GC/MS (Method #)	VOA GC (Method #)	Pest PCBs (Method #)	Metals (Method #)	Other (Method #)
IW-3S	E2710-01					6010B, 7470A	7196A, SM5220 D
IW-3D	E2710-02					6010B, 7470A	7196A, SM5220 D
MLW-1IS	E2710-03					6010B, 7470A	7196A, SM5220 D
MLW-1ID	E2710-04					6010B, 7470A	7196A, SM5220 D
MLW-1D	E2710-05					6010B, 7470A	7196A, SM5220 D
SW-1	E2710-06					6010B, 7470A	7196A, SM5220 D
SVE-2	E2710-07					6010B, 7470A	7196A, SM5220 D

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

FORM S-IV

SAMPLE PREPARATION AND ANALYSIS SUMMARY
INORGANIC ANALYSES

Laboratory Sample ID	Matrix	Metals Requested	Date Rec'd at Lab	Date Digested	Date Analyzed
E2710-01	WATER	Metals ICP-TAL	06/27/13	06/28/13	07/15/13
E2710-02	WATER	Metals ICP-TAL	06/27/13	06/28/13	07/15/13
E2710-03	WATER	Metals ICP-TAL	06/27/13	06/28/13	07/15/13
E2710-04	WATER	Metals ICP-TAL	06/27/13	06/28/13	07/15/13
E2710-05	WATER	Metals ICP-TAL	06/27/13	06/28/13	07/15/13
E2710-06	WATER	Metals ICP-TAL	06/27/13	06/28/13	07/15/13
E2710-07	WATER	Metals ICP-TAL	06/27/13	06/28/13	07/15/13

* Details For Test :Metals ICP-TAL

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

FORM S-IV

SAMPLE PREPARATION AND ANALYSIS SUMMARY
INORGANIC ANALYSES

Laboratory Sample ID	Matrix	Metals Requested	Date Rec'd at Lab	Date Digested	Date Analyzed
E2710-01	WATER	Mercury	06/27/13	06/28/13	07/01/13
E2710-02	WATER	Mercury	06/27/13	06/28/13	07/01/13
E2710-03	WATER	Mercury	06/27/13	06/28/13	07/01/13
E2710-04	WATER	Mercury	06/27/13	06/28/13	07/01/13
E2710-05	WATER	Mercury	06/27/13	06/28/13	07/01/13
E2710-06	WATER	Mercury	06/27/13	06/28/13	07/01/13
E2710-07	WATER	Mercury	06/27/13	06/28/13	07/01/13

* Details For Test :Mercury

CHEMTECH
284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

CASE NARRATIVE

Impact Environmental
Project Name: Melody Cleaners
Project # N/A
Chemtech Project # E2710
Test Name: Mercury,Metals ICP-TAL

A. Number of Samples and Date of Receipt:
7 Water samples were received on 06/27/2013.

B. Parameters:
According to the Chain of Custody document, the following analyses were requested: COD, Hexavalent Chromium, Mercury, Metals ICP-TAL and METALS-TAL. This data package contains results for Mercury,Metals ICP-TAL.

C. Analytical Techniques:
The analysis of Metals ICP-TAL was based on method 6010B, digestion based on method 3010 (waters). The analysis and digestion of Mercury was based on method 7470A.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Blank Spike met requirements for all samples.
The Duplicate analysis met criteria for all samples.
The Matrix Spike analysis met criteria for all samples.
The Matrix Spike Duplicate analysis met criteria for all samples.
The Blank analysis did not indicate the presence of lab contamination.
The Calibration met the requirements.
The Serial Dilution met criteria for all samples except for Chromium.

E. Additional Comments:
The %R did not meet recovery for some of the analytes in the calibrations CCV09, CCV10, CCV11, CCV12, CCV13 in Run number LB66716 and CCV12 in Run number LB66836A. The samples or QC were not associated with these calibrations.

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature_____

CHEMTECH
284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

CASE NARRATIVE

Impact Environmental
Project Name: Melody Cleaners
Project # N/A
Chemtech Project # E2710
Test Name: COD,Hexavalent Chromium

A. Number of Samples and Date of Receipt:
7 Water samples were received on 06/27/2013.

B. Parameters:
According to the Chain of Custody document, the following analyses were requested: COD, Hexavalent Chromium, Mercury, Metals ICP-TAL and METALS-TAL. This data package contains results for COD,Hexavalent Chromium.

C. Analytical Techniques:
The analysis of Hexavalent Chromium was based on method 7196A and the analysis of COD was based on method SM5220 D.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Blank Spike met requirements for all samples.
The Duplicate analysis (IW-3SD-Sample E2710-01) met criteria for all samples except for COD. The concentration of the sample is below CRQL.
The Matrix Spike analysis met criteria for all samples.
The Blank analysis did not indicate the presence of lab contamination.
The Calibration met the requirements.

E. Additional Comments:

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature_____

CHEMTECH
284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

METALS CONFORMANCE/NON-CONFORMANCE SUMMARY

CHEMTECH PROJECT NUMBER: E2710 MATRIX: Water

METHOD: 6010B/7470

		NA	NO	YES
1.	Calibration Summary met criteria.			✓
2.	ICP Interference Check Sample Results Summary Submitted.			✓
3.	Serial Dilution Summary (if applicable) Submitted.		✓	
	The Serial Dilution met criteria for all samples except for Chromium.			
4.	Laboratory Control Sample Summary (if applicable) Submitted.			✓
5.	Blank Contamination - If yes, list compounds and concentrations in each blank:		✓	
6.	Matrix Spike/Matrix Spike Duplicate Recoveries Met Criteria			✓
	If not met, list those compounds and their recoveries which fall outside the acceptable range.			
7.	Sample Duplicate Analysis Met QC Criteria			✓
	If not met, list those compounds and their recoveries which fall outside the acceptable range.			
8.	Digestion Holding Time Met			✓
	If not met, list number of days exceeded for each sample:			
9.	Analysis Holding Time Met			✓
	If not met, list those compounds and their recoveries which fall outside the acceptable range.			

ADDITIONAL COMMENTS: The %R did not meet recovery for some of the analytes in the calibrations CCV09, CCV10, CCV11, CCV12, CCV13 in Run number LB66716 and CCV12 in Run number LB66836A. The samples or QC were not associated with these calibrations

_____ ___07/17/13_____

QA REVIEW Date

CHEMTECH
284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

GENERAL CHEMISTRY CONFORMANCE/NON-CONFORMANCE SUMMARY

CHEMTECH PROJECT NUMBER: E2710 MATRIX: Water

METHOD: 7196A/SM5220 D

		NA	NO	YES
1.	Blank Contamination - If yes, list compounds and concentrations in each blank:		✓	
2.	Matrix Spike Duplicate Recoveries Met Criteria If not met, list those compounds and their recoveries which fall outside the acceptable range. The Blank Spike met requirements for all samples.			✓
3.	Sample Duplicate Analysis Met QC Criteria If not met, list those compounds and their recoveries which fall outside the acceptable range. The Duplicate analysis (IW-3SD-Sample E2710-01) met criteria for all samples except for COD.		✓	
8.	Digestion Holding Time Met If not met, list number of days exceeded for each sample:			✓

ADDITIONAL COMMENTS:

_____ __07/11/13_____
QA REVIEW Date

DATA REPORTING QUALIFIERS- INORGANIC

For reporting results, the following " Results Qualifiers" are used:

J	Indicates the reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL), but greater than or equal to the Instrument Detection Limit (IDL).
U	Indicates the analyte was analyzed for, but not detected.
ND	Indicates the analyte was analyzed for, but not detected
E	Indicates the reported value is estimated because of the presence of interference
M	Indicates Duplicate injection precision not met.
N	Indicates the spiked sample recovery is not within control limits.
S	Indicates the reported value was determined by the Method of Standard Addition (MSA).
*	Indicates that the duplicate analysis is not within control limits.
+	Indicates the correlation coefficient for the MSA is less than 0.995.
D	Indicates the reported value is from a secondary analysis with a dilution factor. The original analysis exceeded the calibration range.
M	Method qualifiers **"P"** for ICP instrument **"PM"** for ICP when Microwave Digestion is used **"CV"** for Manual Cold Vapor AA **"AV"** for automated Cold Vapor AA **"CA"** for MIDI-Distillation Spectrophotometric **"AS"** for Semi –Automated Spectrophotometric **"C"** for Manual Spectrophotometric **"T"** for Titrimetric **"NR"** for analyte not required to be analyzed
OR	Indicates the analyte's concentration exceeds the calibrated range of the instrument for that specific analysis.
Q	Indicates the LCS did not meet the control limits requirements

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: E2710

	Completed
For thorough review, the report must have the following:	
GENERAL:	
Are all original paperwork present (chain of custody, record of communication,airbill, sample management lab chronicle, login page)	✓
Check chain-of-custody for proper relinquish/return of samples	✓
Is the chain of custody signed and complete	✓
Check internal chain-of-custody for proper relinquish/return of samples /sample extracts	✓
Collect information for each project id from server. Were all requirements followed	✓
COVER PAGE:	
Do numbers of samples correspond to the number of samples in the Chain of Custody on login page	✓
Do lab numbers and client Ids on cover page agree with the Chain of Custody	✓
CHAIN OF CUSTODY:	
Do requested analyses on Chain of Custody agree with form I results	✓
Do requested analyses on Chain of Custody agree with the log-in page	✓
Were the correct method log-in for analysis according to the Analytical Request and Chain of Castody	✓
Were the samples received within hold time	✓
Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle	✓
ANALYTICAL:	
Was method requirement followed?	✓
Was client requirement followed?	✓
Does the case narrative summarize all QC failure?	✓
All runlogs and manual integration are reviewed for requirements	✓
All manual calculations and /or hand notations verified	✓

1st Level QA Review Signature: SHELLY GUHA **Date:** 07/17/2013

2nd Level QA Review Signature: _____ **Date:** _____

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

LAB CHRONICLE

OrderID:	E2710	**OrderDate:**	6/27/2013 9:49:46 AM
Client:	Impact Environmental	**Project:**	Melody Cleaners
Contact:	Michael Bluight	**Location:**	H63

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
E2710-01	**IW-3S**	**WATER**			**06/26/13**			**06/27/13**
			Mercury	7470A		06/28/13	07/01/13	
			Metals ICP-TAL	6010B		06/28/13	07/15/13	
E2710-02	**IW-3D**	**WATER**			**06/26/13**			**06/27/13**
			Mercury	7470A		06/28/13	07/01/13	
			Metals ICP-TAL	6010B		06/28/13	07/15/13	
E2710-03	**MLW-1IS**	**WATER**			**06/26/13**			**06/27/13**
			Mercury	7470A		06/28/13	07/01/13	
			Metals ICP-TAL	6010B		06/28/13	07/15/13	
E2710-04	**MLW-1ID**	**WATER**			**06/26/13**			**06/27/13**
			Mercury	7470A		06/28/13	07/01/13	
			Metals ICP-TAL	6010B		06/28/13	07/15/13	
E2710-05	**MLW-1D**	**WATER**			**06/26/13**			**06/27/13**
			Mercury	7470A		06/28/13	07/01/13	
			Metals ICP-TAL	6010B		06/28/13	07/15/13	
E2710-06	**SW-1**	**WATER**			**06/26/13**			**06/27/13**
			Mercury	7470A		06/28/13	07/01/13	
			Metals ICP-TAL	6010B		06/28/13	07/15/13	
E2710-07	**SVE-2**	**WATER**			**06/26/13**			**06/27/13**
			Mercury	7470A		06/28/13	07/01/13	
			Metals ICP-TAL	6010B		06/28/13	07/15/13	

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Hit Summary Sheet
SW-846

SDG No.: E2710 **Order ID:** E2710

Client: Impact Environmental **Project ID:** Melody Cleaners

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID : IW-3S									
E2710-01	IW-3S	WATER	Aluminum	9,370.000		3.250	12.5	25.0	ug/L
E2710-01	IW-3S	WATER	Arsenic	7.650		2.100	2.5	5.000	ug/L
E2710-01	IW-3S	WATER	Barium	211.000		2.000	12.5	25.0	ug/L
E2710-01	IW-3S	WATER	Cadmium	145.000		0.25	0.75	1.500	ug/L
E2710-01	IW-3S	WATER	Calcium	14,100.000		15.9	250	500	ug/L
E2710-01	IW-3S	WATER	Chromium	34.200		0.55	1.25	2.500	ug/L
E2710-01	IW-3S	WATER	Cobalt	6.300	J	2.900	3.75	7.500	ug/L
E2710-01	IW-3S	WATER	Copper	52.300		1.000	2.5	5.000	ug/L
E2710-01	IW-3S	WATER	Iron	15,600.000		10.2	12.5	25.0	ug/L
E2710-01	IW-3S	WATER	Lead	32.400		1.300	1.5	3.000	ug/L
E2710-01	IW-3S	WATER	Magnesium	1,880.000		16.3	250	500	ug/L
E2710-01	IW-3S	WATER	Manganese	28,200.000		0.85	2.5	5.000	ug/L
E2710-01	IW-3S	WATER	Nickel	17.400		2.100	5	10.0	ug/L
E2710-01	IW-3S	WATER	Potassium	4,220.000		19.4	250	500	ug/L
E2710-01	IW-3S	WATER	Silver	3.250		0.75	1.25	2.500	ug/L
E2710-01	IW-3S	WATER	Sodium	37,100.000		6.950	250	500	ug/L
E2710-01	IW-3S	WATER	Thallium	29.300		1.200	5	10.0	ug/L
E2710-01	IW-3S	WATER	Zinc	70.300		3.250	5	10.0	ug/L
Client ID : IW-3D									
E2710-02	IW-3D	WATER	Aluminum	68.100		3.250	12.5	25.0	ug/L
E2710-02	IW-3D	WATER	Barium	95.400		2.000	12.5	25.0	ug/L
E2710-02	IW-3D	WATER	Cadmium	2.960		0.25	0.75	1.500	ug/L
E2710-02	IW-3D	WATER	Calcium	15,500.000		15.9	250	500	ug/L
E2710-02	IW-3D	WATER	Chromium	25.500		0.55	1.25	2.500	ug/L
E2710-02	IW-3D	WATER	Iron	20.700	J	10.2	12.5	25.0	ug/L
E2710-02	IW-3D	WATER	Lead	1.900	J	1.300	1.5	3.000	ug/L
E2710-02	IW-3D	WATER	Magnesium	2,710.000		16.3	250	500	ug/L
E2710-02	IW-3D	WATER	Manganese	243.000		0.85	2.5	5.000	ug/L
E2710-02	IW-3D	WATER	Potassium	5,560.000		19.4	250	500	ug/L
E2710-02	IW-3D	WATER	Sodium	46,600.000		6.950	250	500	ug/L
E2710-02	IW-3D	WATER	Zinc	40.900		3.250	5	10.0	ug/L
Client ID : MLW-1IS									
E2710-03	MLW-1IS	WATER	Aluminum	324.000		3.250	12.5	25.0	ug/L
E2710-03	MLW-1IS	WATER	Barium	17.400	J	2.000	12.5	25.0	ug/L
E2710-03	MLW-1IS	WATER	Calcium	10,200.000		15.9	250	500	ug/L
E2710-03	MLW-1IS	WATER	Chromium	4.900		0.55	1.25	2.500	ug/L
E2710-03	MLW-1IS	WATER	Copper	4.940	J	1.000	2.5	5.000	ug/L
E2710-03	MLW-1IS	WATER	Iron	811.000		10.2	12.5	25.0	ug/L

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Hit Summary Sheet
SW-846

SDG No.: E2710 **Order ID:** E2710

Client: Impact Environmental **Project ID:** Melody Cleaners

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	LOD	RDL	Units
E2710-03	MLW-1IS	WATER	Lead	2.660	J	1.300	1.5	3.000	ug/L
E2710-03	MLW-1IS	WATER	Magnesium	703.000		16.3	250	500	ug/L
E2710-03	MLW-1IS	WATER	Manganese	564.000		0.85	2.5	5.000	ug/L
E2710-03	MLW-1IS	WATER	Potassium	2,420.000		19.4	250	500	ug/L
E2710-03	MLW-1IS	WATER	Sodium	9,490.000		6.950	250	500	ug/L
E2710-03	MLW-1IS	WATER	Zinc	80.600		3.250	5	10.0	ug/L
Client ID :	**MLW-1ID**								
E2710-04	MLW-1ID	WATER	Aluminum	329.000		3.250	12.5	25.0	ug/L
E2710-04	MLW-1ID	WATER	Arsenic	3.910	J	2.100	2.5	5.000	ug/L
E2710-04	MLW-1ID	WATER	Barium	78.700		2.000	12.5	25.0	ug/L
E2710-04	MLW-1ID	WATER	Calcium	72,400.000		15.9	250	500	ug/L
E2710-04	MLW-1ID	WATER	Chromium	7.710		0.55	1.25	2.500	ug/L
E2710-04	MLW-1ID	WATER	Copper	3.340	J	1.000	2.5	5.000	ug/L
E2710-04	MLW-1ID	WATER	Iron	427.000		10.2	12.5	25.0	ug/L
E2710-04	MLW-1ID	WATER	Lead	2.260	J	1.300	1.5	3.000	ug/L
E2710-04	MLW-1ID	WATER	Magnesium	2,490.000		16.3	250	500	ug/L
E2710-04	MLW-1ID	WATER	Manganese	2,420.000		0.85	2.5	5.000	ug/L
E2710-04	MLW-1ID	WATER	Nickel	2.900	J	2.100	5	10.0	ug/L
E2710-04	MLW-1ID	WATER	Potassium	7,230.000		19.4	250	500	ug/L
E2710-04	MLW-1ID	WATER	Selenium	2.400	J	2.400	2.5	5.000	ug/L
E2710-04	MLW-1ID	WATER	Silver	1.500	J	0.75	1.25	2.500	ug/L
E2710-04	MLW-1ID	WATER	Sodium	27,800.000		6.950	250	500	ug/L
E2710-04	MLW-1ID	WATER	Vanadium	3.580	J	3.050	5	10.0	ug/L
E2710-04	MLW-1ID	WATER	Zinc	40.700		3.250	5	10.0	ug/L
Client ID :	**MLW-1D**								
E2710-05	MLW-1D	WATER	Aluminum	250.000		3.250	12.5	25.0	ug/L
E2710-05	MLW-1D	WATER	Barium	2.420	J	2.000	12.5	25.0	ug/L
E2710-05	MLW-1D	WATER	Calcium	4,950.000		15.9	250	500	ug/L
E2710-05	MLW-1D	WATER	Chromium	2.230	J	0.55	1.25	2.500	ug/L
E2710-05	MLW-1D	WATER	Copper	3.070	J	1.000	2.5	5.000	ug/L
E2710-05	MLW-1D	WATER	Iron	349.000		10.2	12.5	25.0	ug/L
E2710-05	MLW-1D	WATER	Lead	2.460	J	1.300	1.5	3.000	ug/L
E2710-05	MLW-1D	WATER	Magnesium	454.000	J	16.3	250	500	ug/L
E2710-05	MLW-1D	WATER	Manganese	156.000		0.85	2.5	5.000	ug/L
E2710-05	MLW-1D	WATER	Potassium	780.000		19.4	250	500	ug/L
E2710-05	MLW-1D	WATER	Sodium	4,140.000		6.950	250	500	ug/L
E2710-05	MLW-1D	WATER	Zinc	38.100		3.250	5	10.0	ug/L
Client ID :	**SW-1**								
E2710-06	SW-1	WATER	Aluminum	1,210.000		3.250	12.5	25.0	ug/L
E2710-06	SW-1	WATER	Barium	10.500	J	2.000	12.5	25.0	ug/L

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Hit Summary Sheet
SW-846

SDG No.: E2710 **Order ID:** E2710

Client: Impact Environmental **Project ID:** Melody Cleaners

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	LOD	RDL	Units
E2710-06	SW-1	WATER	Calcium	22,000.000		15.9	250	500	ug/L
E2710-06	SW-1	WATER	Chromium	5.000		0.55	1.25	2.500	ug/L
E2710-06	SW-1	WATER	Copper	14.200		1.000	2.5	5.000	ug/L
E2710-06	SW-1	WATER	Iron	956.000		10.2	12.5	25.0	ug/L
E2710-06	SW-1	WATER	Lead	5.620		1.300	1.5	3.000	ug/L
E2710-06	SW-1	WATER	Magnesium	466.000	J	16.3	250	500	ug/L
E2710-06	SW-1	WATER	Manganese	23.500		0.85	2.5	5.000	ug/L
E2710-06	SW-1	WATER	Potassium	4,280.000		19.4	250	500	ug/L
E2710-06	SW-1	WATER	Sodium	4,230.000		6.950	250	500	ug/L
E2710-06	SW-1	WATER	Vanadium	6.290	J	3.050	5	10.0	ug/L
E2710-06	SW-1	WATER	Zinc	173.000		3.250	5	10.0	ug/L
Client ID : SVE-2									
E2710-07	SVE-2	WATER	Aluminum	9,010.000		3.250	12.5	25.0	ug/L
E2710-07	SVE-2	WATER	Arsenic	20.900		2.100	2.5	5.000	ug/L
E2710-07	SVE-2	WATER	Barium	31.000		2.000	12.5	25.0	ug/L
E2710-07	SVE-2	WATER	Cadmium	8.330		0.25	0.75	1.500	ug/L
E2710-07	SVE-2	WATER	Calcium	18,400.000		15.9	250	500	ug/L
E2710-07	SVE-2	WATER	Chromium	43.000		0.55	1.25	2.500	ug/L
E2710-07	SVE-2	WATER	Copper	125.000		1.000	2.5	5.000	ug/L
E2710-07	SVE-2	WATER	Iron	19,000.000		10.2	12.5	25.0	ug/L
E2710-07	SVE-2	WATER	Lead	12.800		1.300	1.5	3.000	ug/L
E2710-07	SVE-2	WATER	Magnesium	2,600.000		16.3	250	500	ug/L
E2710-07	SVE-2	WATER	Manganese	20,100.000		0.85	2.5	5.000	ug/L
E2710-07	SVE-2	WATER	Mercury	0.115	J	0.092	0.1	0.200	ug/L
E2710-07	SVE-2	WATER	Nickel	4.520	J	2.100	5	10.0	ug/L
E2710-07	SVE-2	WATER	Potassium	12,200.000		19.4	250	500	ug/L
E2710-07	SVE-2	WATER	Silver	0.900	J	0.75	1.25	2.500	ug/L
E2710-07	SVE-2	WATER	Sodium	74,100.000		6.950	250	500	ug/L
E2710-07	SVE-2	WATER	Thallium	16.300		1.200	5	10.0	ug/L
E2710-07	SVE-2	WATER	Zinc	249.000		3.250	5	10.0	ug/L

SAMPLE DATA

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	Impact Environmental	Date Collected:	06/26/13
Project:	Melody Cleaners	Date Received:	06/27/13
Client Sample ID:	IW-3S	SDG No.:	E2710
Lab Sample ID:	E2710-01	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
7429-90-5	Aluminum	9370		1	3.25	12.5	25	ug/L	06/28/13	07/15/13	SW6010B
7440-36-0	Antimony	6.25	U	1	4	6.25	12.5	ug/L	06/28/13	07/15/13	SW6010B
7440-38-2	Arsenic	7.65		1	2.1	2.5	5	ug/L	06/28/13	07/15/13	SW6010B
7440-39-3	Barium	211		1	2	12.5	25	ug/L	06/28/13	07/15/13	SW6010B
7440-41-7	Beryllium	0.75	U	1	0.35	0.75	1.5	ug/L	06/28/13	07/15/13	SW6010B
7440-43-9	Cadmium	145		1	0.25	0.75	1.5	ug/L	06/28/13	07/15/13	SW6010B
7440-70-2	Calcium	14100		1	15.9	250	500	ug/L	06/28/13	07/15/13	SW6010B
7440-47-3	Chromium	34.2		1	0.55	1.25	2.5	ug/L	06/28/13	07/15/13	SW6010B
7440-48-4	Cobalt	6.3	J	1	2.9	3.75	7.5	ug/L	06/28/13	07/15/13	SW6010B
7440-50-8	Copper	52.3		1	1	2.5	5	ug/L	06/28/13	07/15/13	SW6010B
7439-89-6	Iron	15600		1	10.2	12.5	25	ug/L	06/28/13	07/15/13	SW6010B
7439-92-1	Lead	32.4		1	1.3	1.5	3	ug/L	06/28/13	07/15/13	SW6010B
7439-95-4	Magnesium	1880		1	16.3	250	500	ug/L	06/28/13	07/15/13	SW6010B
7439-96-5	Manganese	28200		1	0.85	2.5	5	ug/L	06/28/13	07/15/13	SW6010B
7439-97-6	Mercury	0.1	U	1	0.092	0.1	0.2	ug/L	06/28/13	07/01/13	SW7470A
7440-02-0	Nickel	17.4		1	2.1	5	10	ug/L	06/28/13	07/15/13	SW6010B
7440-09-7	Potassium	4220		1	19.4	250	500	ug/L	06/28/13	07/15/13	SW6010B
7782-49-2	Selenium	2.5	U	1	2.4	2.5	5	ug/L	06/28/13	07/15/13	SW6010B
7440-22-4	Silver	3.25		1	0.75	1.25	2.5	ug/L	06/28/13	07/15/13	SW6010B
7440-23-5	Sodium	37100		1	6.95	250	500	ug/L	06/28/13	07/15/13	SW6010B
7440-28-0	Thallium	29.3		1	1.2	5	10	ug/L	06/28/13	07/15/13	SW6010B
7440-62-2	Vanadium	5	U	1	3.05	5	10	ug/L	06/28/13	07/15/13	SW6010B
7440-66-6	Zinc	70.3		1	3.25	5	10	ug/L	06/28/13	07/15/13	SW6010B

Color Before:	Brown	Clarity Before:	Cloudy	Texture:	
Color After:	Yellow	Clarity After:	Clear	Artifacts:	
Comments:	METALS-TAL				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	Impact Environmental	Date Collected:	06/26/13
Project:	Melody Cleaners	Date Received:	06/27/13
Client Sample ID:	IW-3D	SDG No.:	E2710
Lab Sample ID:	E2710-02	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
7429-90-5	Aluminum	68.1		1	3.25	12.5	25	ug/L	06/28/13	07/15/13	SW6010B
7440-36-0	Antimony	6.25	U	1	4	6.25	12.5	ug/L	06/28/13	07/15/13	SW6010B
7440-38-2	Arsenic	2.5	U	1	2.1	2.5	5	ug/L	06/28/13	07/15/13	SW6010B
7440-39-3	Barium	95.4		1	2	12.5	25	ug/L	06/28/13	07/15/13	SW6010B
7440-41-7	Beryllium	0.75	U	1	0.35	0.75	1.5	ug/L	06/28/13	07/15/13	SW6010B
7440-43-9	Cadmium	2.96		1	0.25	0.75	1.5	ug/L	06/28/13	07/15/13	SW6010B
7440-70-2	Calcium	15500		1	15.9	250	500	ug/L	06/28/13	07/15/13	SW6010B
7440-47-3	Chromium	25.5		1	0.55	1.25	2.5	ug/L	06/28/13	07/15/13	SW6010B
7440-48-4	Cobalt	3.75	U	1	2.9	3.75	7.5	ug/L	06/28/13	07/15/13	SW6010B
7440-50-8	Copper	2.5	U	1	1	2.5	5	ug/L	06/28/13	07/15/13	SW6010B
7439-89-6	Iron	20.7	J	1	10.2	12.5	25	ug/L	06/28/13	07/15/13	SW6010B
7439-92-1	Lead	1.9	J	1	1.3	1.5	3	ug/L	06/28/13	07/15/13	SW6010B
7439-95-4	Magnesium	2710		1	16.3	250	500	ug/L	06/28/13	07/15/13	SW6010B
7439-96-5	Manganese	243		1	0.85	2.5	5	ug/L	06/28/13	07/15/13	SW6010B
7439-97-6	Mercury	0.1	U	1	0.092	0.1	0.2	ug/L	06/28/13	07/01/13	SW7470A
7440-02-0	Nickel	5	U	1	2.1	5	10	ug/L	06/28/13	07/15/13	SW6010B
7440-09-7	Potassium	5560		1	19.4	250	500	ug/L	06/28/13	07/15/13	SW6010B
7782-49-2	Selenium	2.5	U	1	2.4	2.5	5	ug/L	06/28/13	07/15/13	SW6010B
7440-22-4	Silver	1.25	U	1	0.75	1.25	2.5	ug/L	06/28/13	07/15/13	SW6010B
7440-23-5	Sodium	46600		1	6.95	250	500	ug/L	06/28/13	07/15/13	SW6010B
7440-28-0	Thallium	5	U	1	1.2	5	10	ug/L	06/28/13	07/15/13	SW6010B
7440-62-2	Vanadium	5	U	1	3.05	5	10	ug/L	06/28/13	07/15/13	SW6010B
7440-66-6	Zinc	40.9		1	3.25	5	10	ug/L	06/28/13	07/15/13	SW6010B

Color Before:	Yellow	Clarity Before:	Clear	Texture:	
Color After:	Yellow	Clarity After:	Clear	Artifacts:	
Comments:	METALS-TAL				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
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E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

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Report of Analysis

Client:	Impact Environmental	Date Collected:	06/26/13
Project:	Melody Cleaners	Date Received:	06/27/13
Client Sample ID:	MLW-1IS	SDG No.:	E2710
Lab Sample ID:	E2710-03	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
7429-90-5	Aluminum	324		1	3.25	12.5	25	ug/L	06/28/13	07/15/13	SW6010B
7440-36-0	Antimony	6.25	U	1	4	6.25	12.5	ug/L	06/28/13	07/15/13	SW6010B
7440-38-2	Arsenic	2.5	U	1	2.1	2.5	5	ug/L	06/28/13	07/15/13	SW6010B
7440-39-3	Barium	17.4	J	1	2	12.5	25	ug/L	06/28/13	07/15/13	SW6010B
7440-41-7	Beryllium	0.75	U	1	0.35	0.75	1.5	ug/L	06/28/13	07/15/13	SW6010B
7440-43-9	Cadmium	0.75	U	1	0.25	0.75	1.5	ug/L	06/28/13	07/15/13	SW6010B
7440-70-2	Calcium	10200		1	15.9	250	500	ug/L	06/28/13	07/15/13	SW6010B
7440-47-3	Chromium	4.9		1	0.55	1.25	2.5	ug/L	06/28/13	07/15/13	SW6010B
7440-48-4	Cobalt	3.75	U	1	2.9	3.75	7.5	ug/L	06/28/13	07/15/13	SW6010B
7440-50-8	Copper	4.94	J	1	1	2.5	5	ug/L	06/28/13	07/15/13	SW6010B
7439-89-6	Iron	811		1	10.2	12.5	25	ug/L	06/28/13	07/15/13	SW6010B
7439-92-1	Lead	2.66	J	1	1.3	1.5	3	ug/L	06/28/13	07/15/13	SW6010B
7439-95-4	Magnesium	703		1	16.3	250	500	ug/L	06/28/13	07/15/13	SW6010B
7439-96-5	Manganese	564		1	0.85	2.5	5	ug/L	06/28/13	07/15/13	SW6010B
7439-97-6	Mercury	0.1	U	1	0.092	0.1	0.2	ug/L	06/28/13	07/01/13	SW7470A
7440-02-0	Nickel	5	U	1	2.1	5	10	ug/L	06/28/13	07/15/13	SW6010B
7440-09-7	Potassium	2420		1	19.4	250	500	ug/L	06/28/13	07/15/13	SW6010B
7782-49-2	Selenium	2.5	U	1	2.4	2.5	5	ug/L	06/28/13	07/15/13	SW6010B
7440-22-4	Silver	1.25	U	1	0.75	1.25	2.5	ug/L	06/28/13	07/15/13	SW6010B
7440-23-5	Sodium	9490		1	6.95	250	500	ug/L	06/28/13	07/15/13	SW6010B
7440-28-0	Thallium	5	U	1	1.2	5	10	ug/L	06/28/13	07/15/13	SW6010B
7440-62-2	Vanadium	5	U	1	3.05	5	10	ug/L	06/28/13	07/15/13	SW6010B
7440-66-6	Zinc	80.6		1	3.25	5	10	ug/L	06/28/13	07/15/13	SW6010B

Color Before:	Yellow	Clarity Before:	Clear	Texture:	
Color After:	Yellow	Clarity After:	Clear	Artifacts:	
Comments:	METALS-TAL				

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N =Spiked sample recovery not within control limits

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	Impact Environmental	Date Collected:	06/26/13
Project:	Melody Cleaners	Date Received:	06/27/13
Client Sample ID:	MLW-1ID	SDG No.:	E2710
Lab Sample ID:	E2710-04	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
7429-90-5	Aluminum	329		1	3.25	12.5	25	ug/L	06/28/13	07/15/13	SW6010B
7440-36-0	Antimony	6.25	U	1	4	6.25	12.5	ug/L	06/28/13	07/15/13	SW6010B
7440-38-2	Arsenic	3.91	J	1	2.1	2.5	5	ug/L	06/28/13	07/15/13	SW6010B
7440-39-3	Barium	78.7		1	2	12.5	25	ug/L	06/28/13	07/15/13	SW6010B
7440-41-7	Beryllium	0.75	U	1	0.35	0.75	1.5	ug/L	06/28/13	07/15/13	SW6010B
7440-43-9	Cadmium	0.75	U	1	0.25	0.75	1.5	ug/L	06/28/13	07/15/13	SW6010B
7440-70-2	Calcium	72400		1	15.9	250	500	ug/L	06/28/13	07/15/13	SW6010B
7440-47-3	Chromium	7.71		1	0.55	1.25	2.5	ug/L	06/28/13	07/15/13	SW6010B
7440-48-4	Cobalt	3.75	U	1	2.9	3.75	7.5	ug/L	06/28/13	07/15/13	SW6010B
7440-50-8	Copper	3.34	J	1	1	2.5	5	ug/L	06/28/13	07/15/13	SW6010B
7439-89-6	Iron	427		1	10.2	12.5	25	ug/L	06/28/13	07/15/13	SW6010B
7439-92-1	Lead	2.26	J	1	1.3	1.5	3	ug/L	06/28/13	07/15/13	SW6010B
7439-95-4	Magnesium	2490		1	16.3	250	500	ug/L	06/28/13	07/15/13	SW6010B
7439-96-5	Manganese	2420		1	0.85	2.5	5	ug/L	06/28/13	07/15/13	SW6010B
7439-97-6	Mercury	0.1	U	1	0.092	0.1	0.2	ug/L	06/28/13	07/01/13	SW7470A
7440-02-0	Nickel	2.9	J	1	2.1	5	10	ug/L	06/28/13	07/15/13	SW6010B
7440-09-7	Potassium	7230		1	19.4	250	500	ug/L	06/28/13	07/15/13	SW6010B
7782-49-2	Selenium	2.4	J	1	2.4	2.5	5	ug/L	06/28/13	07/15/13	SW6010B
7440-22-4	Silver	1.5	J	1	0.75	1.25	2.5	ug/L	06/28/13	07/15/13	SW6010B
7440-23-5	Sodium	27800		1	6.95	250	500	ug/L	06/28/13	07/15/13	SW6010B
7440-28-0	Thallium	5	U	1	1.2	5	10	ug/L	06/28/13	07/15/13	SW6010B
7440-62-2	Vanadium	3.58	J	1	3.05	5	10	ug/L	06/28/13	07/15/13	SW6010B
7440-66-6	Zinc	40.7		1	3.25	5	10	ug/L	06/28/13	07/15/13	SW6010B

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Color After:	Yellow	Clarity After:	Clear	Artifacts:	
Comments:	METALS-TAL				

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CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	Impact Environmental	Date Collected:	06/26/13
Project:	Melody Cleaners	Date Received:	06/27/13
Client Sample ID:	MLW-1D	SDG No.:	E2710
Lab Sample ID:	E2710-05	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
7429-90-5	Aluminum	250		1	3.25	12.5	25	ug/L	06/28/13	07/15/13	SW6010B
7440-36-0	Antimony	6.25	U	1	4	6.25	12.5	ug/L	06/28/13	07/15/13	SW6010B
7440-38-2	Arsenic	2.5	U	1	2.1	2.5	5	ug/L	06/28/13	07/15/13	SW6010B
7440-39-3	Barium	2.42	J	1	2	12.5	25	ug/L	06/28/13	07/15/13	SW6010B
7440-41-7	Beryllium	0.75	U	1	0.35	0.75	1.5	ug/L	06/28/13	07/15/13	SW6010B
7440-43-9	Cadmium	0.75	U	1	0.25	0.75	1.5	ug/L	06/28/13	07/15/13	SW6010B
7440-70-2	Calcium	4950		1	15.9	250	500	ug/L	06/28/13	07/15/13	SW6010B
7440-47-3	Chromium	2.23	J	1	0.55	1.25	2.5	ug/L	06/28/13	07/15/13	SW6010B
7440-48-4	Cobalt	3.75	U	1	2.9	3.75	7.5	ug/L	06/28/13	07/15/13	SW6010B
7440-50-8	Copper	3.07	J	1	1	2.5	5	ug/L	06/28/13	07/15/13	SW6010B
7439-89-6	Iron	349		1	10.2	12.5	25	ug/L	06/28/13	07/15/13	SW6010B
7439-92-1	Lead	2.46	J	1	1.3	1.5	3	ug/L	06/28/13	07/15/13	SW6010B
7439-95-4	Magnesium	454	J	1	16.3	250	500	ug/L	06/28/13	07/15/13	SW6010B
7439-96-5	Manganese	156		1	0.85	2.5	5	ug/L	06/28/13	07/15/13	SW6010B
7439-97-6	Mercury	0.1	U	1	0.092	0.1	0.2	ug/L	06/28/13	07/01/13	SW7470A
7440-02-0	Nickel	5	U	1	2.1	5	10	ug/L	06/28/13	07/15/13	SW6010B
7440-09-7	Potassium	780		1	19.4	250	500	ug/L	06/28/13	07/15/13	SW6010B
7782-49-2	Selenium	2.5	U	1	2.4	2.5	5	ug/L	06/28/13	07/15/13	SW6010B
7440-22-4	Silver	1.25	U	1	0.75	1.25	2.5	ug/L	06/28/13	07/15/13	SW6010B
7440-23-5	Sodium	4140		1	6.95	250	500	ug/L	06/28/13	07/15/13	SW6010B
7440-28-0	Thallium	5	U	1	1.2	5	10	ug/L	06/28/13	07/15/13	SW6010B
7440-62-2	Vanadium	5	U	1	3.05	5	10	ug/L	06/28/13	07/15/13	SW6010B
7440-66-6	Zinc	38.1		1	3.25	5	10	ug/L	06/28/13	07/15/13	SW6010B

Color Before:	Yellow	Clarity Before:	Clear	Texture:	
Color After:	Yellow	Clarity After:	Clear	Artifacts:	
Comments:	METALS-TAL				

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CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	Impact Environmental	Date Collected:	06/26/13
Project:	Melody Cleaners	Date Received:	06/27/13
Client Sample ID:	SW-1	SDG No.:	E2710
Lab Sample ID:	E2710-06	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
7429-90-5	Aluminum	1210		1	3.25	12.5	25	ug/L	06/28/13	07/15/13	SW6010B
7440-36-0	Antimony	6.25	U	1	4	6.25	12.5	ug/L	06/28/13	07/15/13	SW6010B
7440-38-2	Arsenic	2.5	U	1	2.1	2.5	5	ug/L	06/28/13	07/15/13	SW6010B
7440-39-3	Barium	10.5	J	1	2	12.5	25	ug/L	06/28/13	07/15/13	SW6010B
7440-41-7	Beryllium	0.75	U	1	0.35	0.75	1.5	ug/L	06/28/13	07/15/13	SW6010B
7440-43-9	Cadmium	0.75	U	1	0.25	0.75	1.5	ug/L	06/28/13	07/15/13	SW6010B
7440-70-2	Calcium	22000		1	15.9	250	500	ug/L	06/28/13	07/15/13	SW6010B
7440-47-3	Chromium	5		1	0.55	1.25	2.5	ug/L	06/28/13	07/15/13	SW6010B
7440-48-4	Cobalt	3.75	U	1	2.9	3.75	7.5	ug/L	06/28/13	07/15/13	SW6010B
7440-50-8	Copper	14.2		1	1	2.5	5	ug/L	06/28/13	07/15/13	SW6010B
7439-89-6	Iron	956		1	10.2	12.5	25	ug/L	06/28/13	07/15/13	SW6010B
7439-92-1	Lead	5.62		1	1.3	1.5	3	ug/L	06/28/13	07/15/13	SW6010B
7439-95-4	Magnesium	466	J	1	16.3	250	500	ug/L	06/28/13	07/15/13	SW6010B
7439-96-5	Manganese	23.5		1	0.85	2.5	5	ug/L	06/28/13	07/15/13	SW6010B
7439-97-6	Mercury	0.1	U	1	0.092	0.1	0.2	ug/L	06/28/13	07/01/13	SW7470A
7440-02-0	Nickel	5	U	1	2.1	5	10	ug/L	06/28/13	07/15/13	SW6010B
7440-09-7	Potassium	4280		1	19.4	250	500	ug/L	06/28/13	07/15/13	SW6010B
7782-49-2	Selenium	2.5	U	1	2.4	2.5	5	ug/L	06/28/13	07/15/13	SW6010B
7440-22-4	Silver	1.25	U	1	0.75	1.25	2.5	ug/L	06/28/13	07/15/13	SW6010B
7440-23-5	Sodium	4230		1	6.95	250	500	ug/L	06/28/13	07/15/13	SW6010B
7440-28-0	Thallium	5	U	1	1.2	5	10	ug/L	06/28/13	07/15/13	SW6010B
7440-62-2	Vanadium	6.29	J	1	3.05	5	10	ug/L	06/28/13	07/15/13	SW6010B
7440-66-6	Zinc	173		1	3.25	5	10	ug/L	06/28/13	07/15/13	SW6010B

Color Before:	Yellow	Clarity Before:	Clear	Texture:	
Color After:	Yellow	Clarity After:	Clear	Artifacts:	
Comments:	METALS-TAL				

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CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	Impact Environmental	Date Collected:	06/26/13
Project:	Melody Cleaners	Date Received:	06/27/13
Client Sample ID:	SVE-2	SDG No.:	E2710
Lab Sample ID:	E2710-07	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
7429-90-5	Aluminum	9010		1	3.25	12.5	25	ug/L	06/28/13	07/15/13	SW6010B
7440-36-0	Antimony	6.25	U	1	4	6.25	12.5	ug/L	06/28/13	07/15/13	SW6010B
7440-38-2	Arsenic	20.9		1	2.1	2.5	5	ug/L	06/28/13	07/15/13	SW6010B
7440-39-3	Barium	31		1	2	12.5	25	ug/L	06/28/13	07/15/13	SW6010B
7440-41-7	Beryllium	0.75	U	1	0.35	0.75	1.5	ug/L	06/28/13	07/15/13	SW6010B
7440-43-9	Cadmium	8.33		1	0.25	0.75	1.5	ug/L	06/28/13	07/15/13	SW6010B
7440-70-2	Calcium	18400		1	15.9	250	500	ug/L	06/28/13	07/15/13	SW6010B
7440-47-3	Chromium	43		1	0.55	1.25	2.5	ug/L	06/28/13	07/15/13	SW6010B
7440-48-4	Cobalt	3.75	U	1	2.9	3.75	7.5	ug/L	06/28/13	07/15/13	SW6010B
7440-50-8	Copper	125		1	1	2.5	5	ug/L	06/28/13	07/15/13	SW6010B
7439-89-6	Iron	19000		1	10.2	12.5	25	ug/L	06/28/13	07/15/13	SW6010B
7439-92-1	Lead	12.8		1	1.3	1.5	3	ug/L	06/28/13	07/15/13	SW6010B
7439-95-4	Magnesium	2600		1	16.3	250	500	ug/L	06/28/13	07/15/13	SW6010B
7439-96-5	Manganese	20100		1	0.85	2.5	5	ug/L	06/28/13	07/15/13	SW6010B
7439-97-6	Mercury	0.115	J	1	0.092	0.1	0.2	ug/L	06/28/13	07/01/13	SW7470A
7440-02-0	Nickel	4.52	J	1	2.1	5	10	ug/L	06/28/13	07/15/13	SW6010B
7440-09-7	Potassium	12200		1	19.4	250	500	ug/L	06/28/13	07/15/13	SW6010B
7782-49-2	Selenium	2.5	U	1	2.4	2.5	5	ug/L	06/28/13	07/15/13	SW6010B
7440-22-4	Silver	0.9	J	1	0.75	1.25	2.5	ug/L	06/28/13	07/15/13	SW6010B
7440-23-5	Sodium	74100		1	6.95	250	500	ug/L	06/28/13	07/15/13	SW6010B
7440-28-0	Thallium	16.3		1	1.2	5	10	ug/L	06/28/13	07/15/13	SW6010B
7440-62-2	Vanadium	5	U	1	3.05	5	10	ug/L	06/28/13	07/15/13	SW6010B
7440-66-6	Zinc	249		1	3.25	5	10	ug/L	06/28/13	07/15/13	SW6010B

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METAL CALIBRATION DATA

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Impact Environmental **SDG No.:** E2710

Contract: IMPA01 **Lab Code:** CHEM **Case No.:** E2710 **SAS No.:** E2710

Initial Calibration Source: EPA

Continuing Calibration Source: INORGANIC-VENTURES

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV01	Aluminum	2652.60	2521.0	105.2	90 - 110	P	07/05/2013	12:32	LB66716
	Antimony	1024.50	994.0	103.1	90 - 110	P	07/05/2013	12:32	LB66716
	Arsenic	1017.90	999.0	101.9	90 - 110	P	07/05/2013	12:32	LB66716
	Barium	538.07	503.0	107.0	90 - 110	P	07/05/2013	12:32	LB66716
	Beryllium	506.15	495.0	102.3	90 - 110	P	07/05/2013	12:32	LB66716
	Cadmium	516.57	496.0	104.1	90 - 110	P	07/05/2013	12:32	LB66716
	Calcium	10703.00	10026.0	106.8	90 - 110	P	07/05/2013	12:32	LB66716
	Chromium	517.49	490.0	105.6	90 - 110	P	07/05/2013	12:32	LB66716
	Cobalt	520.27	499.0	104.3	90 - 110	P	07/05/2013	12:32	LB66716
	Copper	538.97	492.0	109.5	90 - 110	P	07/05/2013	12:32	LB66716
	Iron	5201.50	5082.0	102.4	90 - 110	P	07/05/2013	12:32	LB66716
	Lead	1049.70	1002.0	104.8	90 - 110	P	07/05/2013	12:32	LB66716
	Magnesium	6229.30	6074.0	102.6	90 - 110	P	07/05/2013	12:32	LB66716
	Manganese	525.12	499.0	105.2	90 - 110	P	07/05/2013	12:32	LB66716
	Nickel	524.05	503.0	104.2	90 - 110	P	07/05/2013	12:32	LB66716
	Potassium	10406.00	10021.0	103.8	90 - 110	P	07/05/2013	12:32	LB66716
	Selenium	1046.60	1003.0	104.3	90 - 110	P	07/05/2013	12:32	LB66716
	Silver	506.18	501.0	101.0	90 - 110	P	07/05/2013	12:32	LB66716
	Sodium	10555.00	10097.0	104.5	90 - 110	P	07/05/2013	12:32	LB66716
	Thallium	1079.80	1003.0	107.7	90 - 110	P	07/05/2013	12:32	LB66716
	Vanadium	514.42	501.0	102.7	90 - 110	P	07/05/2013	12:32	LB66716
	Zinc	1001.40	1025.0	97.7	90 - 110	P	07/05/2013	12:32	LB66716
CCV01	Aluminum	9827.50	10000.0	98.3	90 - 110	P	07/05/2013	12:55	LB66716
	Antimony	5028.90	5000.0	100.6	90 - 110	P	07/05/2013	12:55	LB66716
	Arsenic	4988.80	5000.0	99.8	90 - 110	P	07/05/2013	12:55	LB66716
	Barium	10128.00	10000.0	101.3	90 - 110	P	07/05/2013	12:55	LB66716
	Beryllium	250.03	250.0	100.0	90 - 110	P	07/05/2013	12:55	LB66716
	Cadmium	2475.70	2500.0	99.0	90 - 110	P	07/05/2013	12:55	LB66716
	Calcium	25169.00	25000.0	100.7	90 - 110	P	07/05/2013	12:55	LB66716
	Chromium	998.92	1000.0	99.9	90 - 110	P	07/05/2013	12:55	LB66716
	Cobalt	2479.80	2500.0	99.2	90 - 110	P	07/05/2013	12:55	LB66716
	Copper	1255.20	1250.0	100.4	90 - 110	P	07/05/2013	12:55	LB66716

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Impact Environmental **SDG No.:** E2710

Contract: IMPA01 **Lab Code:** CHEM **Case No.:** E2710 **SAS No.:** E2710

Initial Calibration Source: EPA

Continuing Calibration Source: INORGANIC-VENTURES

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV01	Iron	4944.80	5000.0	98.9	90 - 110	P	07/05/2013	12:55	LB66716
	Lead	4960.90	5000.0	99.2	90 - 110	P	07/05/2013	12:55	LB66716
	Magnesium	24918.00	25000.0	99.7	90 - 110	P	07/05/2013	12:55	LB66716
	Manganese	2524.40	2500.0	101.0	90 - 110	P	07/05/2013	12:55	LB66716
	Nickel	2491.30	2500.0	99.7	90 - 110	P	07/05/2013	12:55	LB66716
	Potassium	25027.00	25000.0	100.1	90 - 110	P	07/05/2013	12:55	LB66716
	Selenium	5000.50	5000.0	100.0	90 - 110	P	07/05/2013	12:55	LB66716
	Silver	1241.90	1250.0	99.4	90 - 110	P	07/05/2013	12:55	LB66716
	Sodium	25076.00	25000.0	100.3	90 - 110	P	07/05/2013	12:55	LB66716
	Thallium	4975.10	5000.0	99.5	90 - 110	P	07/05/2013	12:55	LB66716
	Vanadium	2455.60	2500.0	98.2	90 - 110	P	07/05/2013	12:55	LB66716
	Zinc	2490.30	2500.0	99.6	90 - 110	P	07/05/2013	12:55	LB66716
CCV02	Aluminum	9456.40	10000.0	94.6	90 - 110	P	07/05/2013	13:43	LB66716
	Antimony	5060.10	5000.0	101.2	90 - 110	P	07/05/2013	13:43	LB66716
	Arsenic	4986.90	5000.0	99.7	90 - 110	P	07/05/2013	13:43	LB66716
	Barium	10243.00	10000.0	102.4	90 - 110	P	07/05/2013	13:43	LB66716
	Beryllium	254.25	250.0	101.7	90 - 110	P	07/05/2013	13:43	LB66716
	Cadmium	2487.30	2500.0	99.5	90 - 110	P	07/05/2013	13:43	LB66716
	Calcium	25603.00	25000.0	102.4	90 - 110	P	07/05/2013	13:43	LB66716
	Chromium	1007.60	1000.0	100.8	90 - 110	P	07/05/2013	13:43	LB66716
	Cobalt	2495.60	2500.0	99.8	90 - 110	P	07/05/2013	13:43	LB66716
	Copper	1256.40	1250.0	100.5	90 - 110	P	07/05/2013	13:43	LB66716
	Iron	4960.30	5000.0	99.2	90 - 110	P	07/05/2013	13:43	LB66716
	Lead	4986.50	5000.0	99.7	90 - 110	P	07/05/2013	13:43	LB66716
	Magnesium	25930.00	25000.0	103.7	90 - 110	P	07/05/2013	13:43	LB66716
	Manganese	2523.30	2500.0	100.9	90 - 110	P	07/05/2013	13:43	LB66716
	Nickel	2504.00	2500.0	100.2	90 - 110	P	07/05/2013	13:43	LB66716
	Potassium	25551.00	25000.0	102.2	90 - 110	P	07/05/2013	13:43	LB66716
	Selenium	5022.80	5000.0	100.5	90 - 110	P	07/05/2013	13:43	LB66716
	Silver	1254.00	1250.0	100.3	90 - 110	P	07/05/2013	13:43	LB66716
	Sodium	25903.00	25000.0	103.6	90 - 110	P	07/05/2013	13:43	LB66716
	Thallium	4997.20	5000.0	99.9	90 - 110	P	07/05/2013	13:43	LB66716

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Impact Environmental **SDG No.:** E2710

Contract: IMPA01 **Lab Code:** CHEM **Case No.:** E2710 **SAS No.:** E2710

Initial Calibration Source: EPA

Continuing Calibration Source: INORGANIC-VENTURES

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV02	Vanadium	2454.40	2500.0	98.2	90 - 110	P	07/05/2013	13:43	LB66716
	Zinc	2640.80	2500.0	105.6	90 - 110	P	07/05/2013	13:43	LB66716
CCV03	Aluminum	9708.50	10000.0	97.1	90 - 110	P	07/05/2013	14:24	LB66716
	Antimony	5014.40	5000.0	100.3	90 - 110	P	07/05/2013	14:24	LB66716
	Arsenic	4921.00	5000.0	98.4	90 - 110	P	07/05/2013	14:24	LB66716
	Barium	10138.00	10000.0	101.4	90 - 110	P	07/05/2013	14:24	LB66716
	Beryllium	250.88	250.0	100.4	90 - 110	P	07/05/2013	14:24	LB66716
	Cadmium	2444.70	2500.0	97.8	90 - 110	P	07/05/2013	14:24	LB66716
	Calcium	24831.00	25000.0	99.3	90 - 110	P	07/05/2013	14:24	LB66716
	Chromium	992.55	1000.0	99.3	90 - 110	P	07/05/2013	14:24	LB66716
	Cobalt	2459.10	2500.0	98.4	90 - 110	P	07/05/2013	14:24	LB66716
	Copper	1233.30	1250.0	98.7	90 - 110	P	07/05/2013	14:24	LB66716
	Iron	5021.40	5000.0	100.4	90 - 110	P	07/05/2013	14:24	LB66716
	Lead	4901.10	5000.0	98.0	90 - 110	P	07/05/2013	14:24	LB66716
	Magnesium	24555.00	25000.0	98.2	90 - 110	P	07/05/2013	14:24	LB66716
	Manganese	2481.10	2500.0	99.2	90 - 110	P	07/05/2013	14:24	LB66716
	Nickel	2466.80	2500.0	98.7	90 - 110	P	07/05/2013	14:24	LB66716
	Potassium	25118.00	25000.0	100.5	90 - 110	P	07/05/2013	14:24	LB66716
	Selenium	4973.40	5000.0	99.5	90 - 110	P	07/05/2013	14:24	LB66716
	Silver	1240.00	1250.0	99.2	90 - 110	P	07/05/2013	14:24	LB66716
	Sodium	25800.00	25000.0	103.2	90 - 110	P	07/05/2013	14:24	LB66716
	Thallium	4906.00	5000.0	98.1	90 - 110	P	07/05/2013	14:24	LB66716
	Vanadium	2417.80	2500.0	96.7	90 - 110	P	07/05/2013	14:24	LB66716
	Zinc	2651.90	2500.0	106.1	90 - 110	P	07/05/2013	14:24	LB66716
CCV04	Aluminum	9593.20	10000.0	95.9	90 - 110	P	07/05/2013	15:12	LB66716
	Antimony	5018.30	5000.0	100.4	90 - 110	P	07/05/2013	15:12	LB66716
	Arsenic	4888.70	5000.0	97.8	90 - 110	P	07/05/2013	15:12	LB66716
	Barium	9933.50	10000.0	99.3	90 - 110	P	07/05/2013	15:12	LB66716
	Beryllium	255.55	250.0	102.2	90 - 110	P	07/05/2013	15:12	LB66716
	Cadmium	2451.50	2500.0	98.1	90 - 110	P	07/05/2013	15:12	LB66716
	Calcium	24819.00	25000.0	99.3	90 - 110	P	07/05/2013	15:12	LB66716
	Chromium	1006.10	1000.0	100.6	90 - 110	P	07/05/2013	15:12	LB66716

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Impact Environmental **SDG No.:** E2710

Contract: IMPA01 **Lab Code:** CHEM **Case No.:** E2710 **SAS No.:** E2710

Initial Calibration Source: EPA

Continuing Calibration Source: INORGANIC-VENTURES

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV04	Cobalt	2470.60	2500.0	98.8	90 - 110	P	07/05/2013	15:12	LB66716
	Copper	1233.40	1250.0	98.7	90 - 110	P	07/05/2013	15:12	LB66716
	Iron	4968.30	5000.0	99.4	90 - 110	P	07/05/2013	15:12	LB66716
	Lead	4927.40	5000.0	98.5	90 - 110	P	07/05/2013	15:12	LB66716
	Magnesium	24407.00	25000.0	97.6	90 - 110	P	07/05/2013	15:12	LB66716
	Manganese	2481.20	2500.0	99.2	90 - 110	P	07/05/2013	15:12	LB66716
	Nickel	2478.80	2500.0	99.2	90 - 110	P	07/05/2013	15:12	LB66716
	Potassium	24448.00	25000.0	97.8	90 - 110	P	07/05/2013	15:12	LB66716
	Selenium	4980.10	5000.0	99.6	90 - 110	P	07/05/2013	15:12	LB66716
	Silver	1256.50	1250.0	100.5	90 - 110	P	07/05/2013	15:12	LB66716
	Sodium	25360.00	25000.0	101.4	90 - 110	P	07/05/2013	15:12	LB66716
	Thallium	4922.90	5000.0	98.5	90 - 110	P	07/05/2013	15:12	LB66716
	Vanadium	2423.60	2500.0	96.9	90 - 110	P	07/05/2013	15:12	LB66716
	Zinc	2730.20	2500.0	109.2	90 - 110	P	07/05/2013	15:12	LB66716
CCV05	Aluminum	9803.20	10000.0	98.0	90 - 110	P	07/05/2013	16:02	LB66716
	Antimony	4930.20	5000.0	98.6	90 - 110	P	07/05/2013	16:02	LB66716
	Arsenic	4804.40	5000.0	96.1	90 - 110	P	07/05/2013	16:02	LB66716
	Barium	10083.00	10000.0	100.8	90 - 110	P	07/05/2013	16:02	LB66716
	Beryllium	250.65	250.0	100.3	90 - 110	P	07/05/2013	16:02	LB66716
	Cadmium	2403.00	2500.0	96.1	90 - 110	P	07/05/2013	16:02	LB66716
	Calcium	24534.00	25000.0	98.1	90 - 110	P	07/05/2013	16:02	LB66716
	Chromium	986.91	1000.0	98.7	90 - 110	P	07/05/2013	16:02	LB66716
	Cobalt	2421.20	2500.0	96.8	90 - 110	P	07/05/2013	16:02	LB66716
	Copper	1211.80	1250.0	96.9	90 - 110	P	07/05/2013	16:02	LB66716
	Iron	5040.20	5000.0	100.8	90 - 110	P	07/05/2013	16:02	LB66716
	Lead	4824.00	5000.0	96.5	90 - 110	P	07/05/2013	16:02	LB66716
	Magnesium	23818.00	25000.0	95.3	90 - 110	P	07/05/2013	16:02	LB66716
	Manganese	2436.10	2500.0	97.4	90 - 110	P	07/05/2013	16:02	LB66716
	Nickel	2425.10	2500.0	97.0	90 - 110	P	07/05/2013	16:02	LB66716
	Potassium	25290.00	25000.0	101.2	90 - 110	P	07/05/2013	16:02	LB66716
	Selenium	4880.70	5000.0	97.6	90 - 110	P	07/05/2013	16:02	LB66716
	Silver	1232.10	1250.0	98.6	90 - 110	P	07/05/2013	16:02	LB66716

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Impact Environmental **SDG No.:** E2710

Contract: IMPA01 **Lab Code:** CHEM **Case No.:** E2710 **SAS No.:** E2710

Initial Calibration Source: EPA

Continuing Calibration Source: INORGANIC-VENTURES

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV05	Sodium	25926.00	25000.0	103.7	90 - 110	P	07/05/2013	16:02	LB66716
	Thallium	4827.70	5000.0	96.6	90 - 110	P	07/05/2013	16:02	LB66716
	Vanadium	2375.60	2500.0	95.0	90 - 110	P	07/05/2013	16:02	LB66716
	Zinc	2335.30	2500.0	93.4	90 - 110	P	07/05/2013	16:02	LB66716
CCV06	Aluminum	9421.30	10000.0	94.2	90 - 110	P	07/05/2013	16:29	LB66716
	Antimony	4763.80	5000.0	95.3	90 - 110	P	07/05/2013	16:29	LB66716
	Arsenic	4652.30	5000.0	93.0	90 - 110	P	07/05/2013	16:29	LB66716
	Barium	9721.80	10000.0	97.2	90 - 110	P	07/05/2013	16:29	LB66716
	Beryllium	240.88	250.0	96.4	90 - 110	P	07/05/2013	16:29	LB66716
	Cadmium	2315.60	2500.0	92.6	90 - 110	P	07/05/2013	16:29	LB66716
	Calcium	23827.00	25000.0	95.3	90 - 110	P	07/05/2013	16:29	LB66716
	Chromium	947.09	1000.0	94.7	90 - 110	P	07/05/2013	16:29	LB66716
	Cobalt	2332.60	2500.0	93.3	90 - 110	P	07/05/2013	16:29	LB66716
	Copper	1166.30	1250.0	93.3	90 - 110	P	07/05/2013	16:29	LB66716
	Iron	4872.50	5000.0	97.4	90 - 110	P	07/05/2013	16:29	LB66716
	Lead	4647.40	5000.0	92.9	90 - 110	P	07/05/2013	16:29	LB66716
	Magnesium	22940.00	25000.0	91.8	90 - 110	P	07/05/2013	16:29	LB66716
	Manganese	2331.20	2500.0	93.2	90 - 110	P	07/05/2013	16:29	LB66716
	Nickel	2339.40	2500.0	93.6	90 - 110	P	07/05/2013	16:29	LB66716
	Potassium	24190.00	25000.0	96.8	90 - 110	P	07/05/2013	16:29	LB66716
	Selenium	4710.00	5000.0	94.2	90 - 110	P	07/05/2013	16:29	LB66716
	Silver	1187.20	1250.0	95.0	90 - 110	P	07/05/2013	16:29	LB66716
	Sodium	25072.00	25000.0	100.3	90 - 110	P	07/05/2013	16:29	LB66716
	Thallium	4654.00	5000.0	93.1	90 - 110	P	07/05/2013	16:29	LB66716
	Vanadium	2269.00	2500.0	90.8	90 - 110	P	07/05/2013	16:29	LB66716
	Zinc	2366.10	2500.0	94.6	90 - 110	P	07/05/2013	16:29	LB66716
CCV07	Aluminum	9391.50	10000.0	93.9	90 - 110	P	07/05/2013	17:00	LB66716
	Antimony	4755.00	5000.0	95.1	90 - 110	P	07/05/2013	17:00	LB66716
	Arsenic	4639.60	5000.0	92.8	90 - 110	P	07/05/2013	17:00	LB66716
	Barium	9582.50	10000.0	95.8	90 - 110	P	07/05/2013	17:00	LB66716
	Beryllium	240.45	250.0	96.2	90 - 110	P	07/05/2013	17:00	LB66716
	Cadmium	2308.50	2500.0	92.3	90 - 110	P	07/05/2013	17:00	LB66716

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Impact Environmental **SDG No.:** E2710

Contract: IMPA01 **Lab Code:** CHEM **Case No.:** E2710 **SAS No.:** E2710

Initial Calibration Source: EPA

Continuing Calibration Source: INORGANIC-VENTURES

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV07	Calcium	23639.00	25000.0	94.6	90 - 110	P	07/05/2013	17:00	LB66716
	Chromium	947.77	1000.0	94.8	90 - 110	P	07/05/2013	17:00	LB66716
	Cobalt	2327.30	2500.0	93.1	90 - 110	P	07/05/2013	17:00	LB66716
	Copper	1166.70	1250.0	93.3	90 - 110	P	07/05/2013	17:00	LB66716
	Iron	4778.10	5000.0	95.6	90 - 110	P	07/05/2013	17:00	LB66716
	Lead	4639.50	5000.0	92.8	90 - 110	P	07/05/2013	17:00	LB66716
	Magnesium	22857.00	25000.0	91.4	90 - 110	P	07/05/2013	17:00	LB66716
	Manganese	2328.50	2500.0	93.1	90 - 110	P	07/05/2013	17:00	LB66716
	Nickel	2329.50	2500.0	93.2	90 - 110	P	07/05/2013	17:00	LB66716
	Potassium	23826.00	25000.0	95.3	90 - 110	P	07/05/2013	17:00	LB66716
	Selenium	4707.90	5000.0	94.2	90 - 110	P	07/05/2013	17:00	LB66716
	Silver	1184.00	1250.0	94.7	90 - 110	P	07/05/2013	17:00	LB66716
	Sodium	24825.00	25000.0	99.3	90 - 110	P	07/05/2013	17:00	LB66716
	Thallium	4633.40	5000.0	92.7	90 - 110	P	07/05/2013	17:00	LB66716
	Vanadium	2274.60	2500.0	91.0	90 - 110	P	07/05/2013	17:00	LB66716
	Zinc	2312.60	2500.0	92.5	90 - 110	P	07/05/2013	17:00	LB66716
CCV08	Aluminum	9082.20	10000.0	90.8	90 - 110	P	07/05/2013	17:47	LB66716
	Antimony	4929.70	5000.0	98.6	90 - 110	P	07/05/2013	17:47	LB66716
	Arsenic	4787.00	5000.0	95.7	90 - 110	P	07/05/2013	17:47	LB66716
	Barium	10137.00	10000.0	101.4	90 - 110	P	07/05/2013	17:47	LB66716
	Beryllium	251.38	250.0	100.6	90 - 110	P	07/05/2013	17:47	LB66716
	Cadmium	2399.70	2500.0	96.0	90 - 110	P	07/05/2013	17:47	LB66716
	Calcium	24759.00	25000.0	99.0	90 - 110	P	07/05/2013	17:47	LB66716
	Chromium	994.12	1000.0	99.4	90 - 110	P	07/05/2013	17:47	LB66716
	Cobalt	2423.20	2500.0	96.9	90 - 110	P	07/05/2013	17:47	LB66716
	Copper	1206.60	1250.0	96.5	90 - 110	P	07/05/2013	17:47	LB66716
	Iron	4911.00	5000.0	98.2	90 - 110	P	07/05/2013	17:47	LB66716
	Lead	4828.50	5000.0	96.6	90 - 110	P	07/05/2013	17:47	LB66716
	Magnesium	23874.00	25000.0	95.5	90 - 110	P	07/05/2013	17:47	LB66716
	Manganese	2442.00	2500.0	97.7	90 - 110	P	07/05/2013	17:47	LB66716
	Nickel	2430.50	2500.0	97.2	90 - 110	P	07/05/2013	17:47	LB66716
	Potassium	25240.00	25000.0	101.0	90 - 110	P	07/05/2013	17:47	LB66716

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Impact Environmental **SDG No.:** E2710

Contract: IMPA01 **Lab Code:** CHEM **Case No.:** E2710 **SAS No.:** E2710

Initial Calibration Source: EPA

Continuing Calibration Source: INORGANIC-VENTURES

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV08	Selenium	4885.60	5000.0	97.7	90 - 110	P	07/05/2013	17:47	LB66716
	Silver	1239.90	1250.0	99.2	90 - 110	P	07/05/2013	17:47	LB66716
	Sodium	26149.00	25000.0	104.6	90 - 110	P	07/05/2013	17:47	LB66716
	Thallium	4819.30	5000.0	96.4	90 - 110	P	07/05/2013	17:47	LB66716
	Vanadium	2395.60	2500.0	95.8	90 - 110	P	07/05/2013	17:47	LB66716
	Zinc	2529.70	2500.0	101.2	90 - 110	P	07/05/2013	17:47	LB66716
CCV09	Aluminum	10990.00	10000.0	109.9	90 - 110	P	07/05/2013	18:33	LB66716
	Antimony	4968.40	5000.0	99.4	90 - 110	P	07/05/2013	18:33	LB66716
	Arsenic	4788.40	5000.0	95.8	90 - 110	P	07/05/2013	18:33	LB66716
	Barium	10330.00	10000.0	103.3	90 - 110	P	07/05/2013	18:33	LB66716
	Beryllium	255.69	250.0	102.3	90 - 110	P	07/05/2013	18:33	LB66716
	Cadmium	2427.30	2500.0	97.1	90 - 110	P	07/05/2013	18:33	LB66716
	Calcium	24890.00	25000.0	99.6	90 - 110	P	07/05/2013	18:33	LB66716
	Chromium	1009.70	1000.0	101.0	90 - 110	P	07/05/2013	18:33	LB66716
	Cobalt	2441.20	2500.0	97.6	90 - 110	P	07/05/2013	18:33	LB66716
	Copper	1215.10	1250.0	97.2	90 - 110	P	07/05/2013	18:33	LB66716
	Iron	4608.50	5000.0	92.2	90 - 110	P	07/05/2013	18:33	LB66716
	Lead	4875.00	5000.0	97.5	90 - 110	P	07/05/2013	18:33	LB66716
	Magnesium	23785.00	25000.0	95.1	90 - 110	P	07/05/2013	18:33	LB66716
	Manganese	2477.40	2500.0	99.1	90 - 110	P	07/05/2013	18:33	LB66716
	Nickel	2450.00	2500.0	98.0	90 - 110	P	07/05/2013	18:33	LB66716
	Potassium	25990.00	25000.0	104.0	90 - 110	P	07/05/2013	18:33	LB66716
	Selenium	4916.40	5000.0	98.3	90 - 110	P	07/05/2013	18:33	LB66716
	Silver	1261.20	1250.0	100.9	90 - 110	P	07/05/2013	18:33	LB66716
	Sodium	26667.00	25000.0	106.7	90 - 110	P	07/05/2013	18:33	LB66716
	Thallium	4867.00	5000.0	97.3	90 - 110	P	07/05/2013	18:33	LB66716
	Vanadium	2440.30	2500.0	97.6	90 - 110	P	07/05/2013	18:33	LB66716
	Zinc	2366.60	2500.0	94.7	90 - 110	P	07/05/2013	18:33	LB66716
CCV10	Aluminum	8439.30	10000.0	84.4	90 - 110	P	07/05/2013	19:24	LB66716
	Antimony	5053.50	5000.0	101.1	90 - 110	P	07/05/2013	19:24	LB66716
	Arsenic	4890.10	5000.0	97.8	90 - 110	P	07/05/2013	19:24	LB66716
	Barium	10820.00	10000.0	108.2	90 - 110	P	07/05/2013	19:24	LB66716

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Impact Environmental **SDG No.:** E2710

Contract: IMPA01 **Lab Code:** CHEM **Case No.:** E2710 **SAS No.:** E2710

Initial Calibration Source: EPA

Continuing Calibration Source: INORGANIC-VENTURES

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV10	Beryllium	260.33	250.0	104.1	90 - 110	P	07/05/2013	19:24	LB66716
	Cadmium	2471.20	2500.0	98.8	90 - 110	P	07/05/2013	19:24	LB66716
	Calcium	25611.00	25000.0	102.4	90 - 110	P	07/05/2013	19:24	LB66716
	Chromium	1025.40	1000.0	102.5	90 - 110	P	07/05/2013	19:24	LB66716
	Cobalt	2489.50	2500.0	99.6	90 - 110	P	07/05/2013	19:24	LB66716
	Copper	1240.50	1250.0	99.2	90 - 110	P	07/05/2013	19:24	LB66716
	Iron	4853.50	5000.0	97.1	90 - 110	P	07/05/2013	19:24	LB66716
	Lead	4970.20	5000.0	99.4	90 - 110	P	07/05/2013	19:24	LB66716
	Magnesium	24307.00	25000.0	97.2	90 - 110	P	07/05/2013	19:24	LB66716
	Manganese	2525.70	2500.0	101.0	90 - 110	P	07/05/2013	19:24	LB66716
	Nickel	2494.20	2500.0	99.8	90 - 110	P	07/05/2013	19:24	LB66716
	Potassium	27592.00	25000.0	110.4	90 - 110	P	07/05/2013	19:24	LB66716
	Selenium	4997.00	5000.0	99.9	90 - 110	P	07/05/2013	19:24	LB66716
	Silver	1281.60	1250.0	102.5	90 - 110	P	07/05/2013	19:24	LB66716
	Sodium	27927.00	25000.0	111.7	90 - 110	P	07/05/2013	19:24	LB66716
	Thallium	4971.60	5000.0	99.4	90 - 110	P	07/05/2013	19:24	LB66716
	Vanadium	2487.40	2500.0	99.5	90 - 110	P	07/05/2013	19:24	LB66716
	Zinc	3448.00	2500.0	137.9	90 - 110	P	07/05/2013	19:24	LB66716
CCV11	Aluminum	8288.90	10000.0	82.9	90 - 110	P	07/05/2013	20:06	LB66716
	Antimony	5059.40	5000.0	101.2	90 - 110	P	07/05/2013	20:06	LB66716
	Arsenic	4900.00	5000.0	98.0	90 - 110	P	07/05/2013	20:06	LB66716
	Barium	11006.00	10000.0	110.1	90 - 110	P	07/05/2013	20:06	LB66716
	Beryllium	261.27	250.0	104.5	90 - 110	P	07/05/2013	20:06	LB66716
	Cadmium	2461.60	2500.0	98.5	90 - 110	P	07/05/2013	20:06	LB66716
	Calcium	25499.00	25000.0	102.0	90 - 110	P	07/05/2013	20:06	LB66716
	Chromium	1022.80	1000.0	102.3	90 - 110	P	07/05/2013	20:06	LB66716
	Cobalt	2482.70	2500.0	99.3	90 - 110	P	07/05/2013	20:06	LB66716
	Copper	1239.30	1250.0	99.1	90 - 110	P	07/05/2013	20:06	LB66716
	Iron	4922.20	5000.0	98.4	90 - 110	P	07/05/2013	20:06	LB66716
	Lead	4959.50	5000.0	99.2	90 - 110	P	07/05/2013	20:06	LB66716
	Magnesium	23861.00	25000.0	95.4	90 - 110	P	07/05/2013	20:06	LB66716
	Manganese	2517.80	2500.0	100.7	90 - 110	P	07/05/2013	20:06	LB66716

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Impact Environmental **SDG No.:** E2710

Contract: IMPA01 **Lab Code:** CHEM **Case No.:** E2710 **SAS No.:** E2710

Initial Calibration Source: EPA

Continuing Calibration Source: INORGANIC-VENTURES

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV11	Nickel	2486.90	2500.0	99.5	90 - 110	P	07/05/2013	20:06	LB66716
	Potassium	28061.00	25000.0	112.2	90 - 110	P	07/05/2013	20:06	LB66716
	Selenium	4988.30	5000.0	99.8	90 - 110	P	07/05/2013	20:06	LB66716
	Silver	1279.30	1250.0	102.3	90 - 110	P	07/05/2013	20:06	LB66716
	Sodium	28593.00	25000.0	114.4	90 - 110	P	07/05/2013	20:06	LB66716
	Thallium	4970.70	5000.0	99.4	90 - 110	P	07/05/2013	20:06	LB66716
	Vanadium	2472.80	2500.0	98.9	90 - 110	P	07/05/2013	20:06	LB66716
	Zinc	3883.30	2500.0	155.3	90 - 110	P	07/05/2013	20:06	LB66716
CCV12	Aluminum	7931.80	10000.0	79.3	90 - 110	P	07/05/2013	20:40	LB66716
	Antimony	4902.10	5000.0	98.0	90 - 110	P	07/05/2013	20:40	LB66716
	Arsenic	4751.00	5000.0	95.0	90 - 110	P	07/05/2013	20:40	LB66716
	Barium	10969.00	10000.0	109.7	90 - 110	P	07/05/2013	20:40	LB66716
	Beryllium	250.59	250.0	100.2	90 - 110	P	07/05/2013	20:40	LB66716
	Cadmium	2378.80	2500.0	95.2	90 - 110	P	07/05/2013	20:40	LB66716
	Calcium	24337.00	25000.0	97.3	90 - 110	P	07/05/2013	20:40	LB66716
	Chromium	979.18	1000.0	97.9	90 - 110	P	07/05/2013	20:40	LB66716
	Cobalt	2401.50	2500.0	96.1	90 - 110	P	07/05/2013	20:40	LB66716
	Copper	1205.80	1250.0	96.5	90 - 110	P	07/05/2013	20:40	LB66716
	Iron	4442.20	5000.0	88.8	90 - 110	P	07/05/2013	20:40	LB66716
	Lead	4780.10	5000.0	95.6	90 - 110	P	07/05/2013	20:40	LB66716
	Magnesium	22537.00	25000.0	90.1	90 - 110	P	07/05/2013	20:40	LB66716
	Manganese	2415.70	2500.0	96.6	90 - 110	P	07/05/2013	20:40	LB66716
	Nickel	2398.00	2500.0	95.9	90 - 110	P	07/05/2013	20:40	LB66716
	Potassium	27883.00	25000.0	111.5	90 - 110	P	07/05/2013	20:40	LB66716
	Selenium	4832.00	5000.0	96.6	90 - 110	P	07/05/2013	20:40	LB66716
	Silver	1229.90	1250.0	98.4	90 - 110	P	07/05/2013	20:40	LB66716
	Sodium	28340.00	25000.0	113.4	90 - 110	P	07/05/2013	20:40	LB66716
	Thallium	4809.70	5000.0	96.2	90 - 110	P	07/05/2013	20:40	LB66716
	Vanadium	2370.50	2500.0	94.8	90 - 110	P	07/05/2013	20:40	LB66716
	Zinc	3566.00	2500.0	142.6	90 - 110	P	07/05/2013	20:40	LB66716
CCV13	Aluminum	8152.90	10000.0	81.5	90 - 110	P	07/05/2013	21:17	LB66716
	Antimony	5279.90	5000.0	105.6	90 - 110	P	07/05/2013	21:17	LB66716

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Impact Environmental **SDG No.:** E2710

Contract: IMPA01 **Lab Code:** CHEM **Case No.:** E2710 **SAS No.:** E2710

Initial Calibration Source: EPA

Continuing Calibration Source: INORGANIC-VENTURES

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV13	Arsenic	5121.10	5000.0	102.4	90 - 110	P	07/05/2013	21:17	LB66716
	Barium	11268.00	10000.0	112.7	90 - 110	P	07/05/2013	21:17	LB66716
	Beryllium	251.34	250.0	100.5	90 - 110	P	07/05/2013	21:17	LB66716
	Cadmium	2573.20	2500.0	102.9	90 - 110	P	07/05/2013	21:17	LB66716
	Calcium	25140.00	25000.0	100.6	90 - 110	P	07/05/2013	21:17	LB66716
	Chromium	983.73	1000.0	98.4	90 - 110	P	07/05/2013	21:17	LB66716
	Cobalt	2592.70	2500.0	103.7	90 - 110	P	07/05/2013	21:17	LB66716
	Copper	1302.90	1250.0	104.2	90 - 110	P	07/05/2013	21:17	LB66716
	Iron	4811.20	5000.0	96.2	90 - 110	P	07/05/2013	21:17	LB66716
	Lead	5154.80	5000.0	103.1	90 - 110	P	07/05/2013	21:17	LB66716
	Magnesium	23137.00	25000.0	92.5	90 - 110	P	07/05/2013	21:17	LB66716
	Manganese	2455.20	2500.0	98.2	90 - 110	P	07/05/2013	21:17	LB66716
	Nickel	2589.90	2500.0	103.6	90 - 110	P	07/05/2013	21:17	LB66716
	Potassium	28602.00	25000.0	114.4	90 - 110	P	07/05/2013	21:17	LB66716
	Selenium	5213.80	5000.0	104.3	90 - 110	P	07/05/2013	21:17	LB66716
	Silver	1237.40	1250.0	99.0	90 - 110	P	07/05/2013	21:17	LB66716
	Sodium	28942.00	25000.0	115.8	90 - 110	P	07/05/2013	21:17	LB66716
	Thallium	5188.20	5000.0	103.8	90 - 110	P	07/05/2013	21:17	LB66716
	Vanadium	2411.00	2500.0	96.4	90 - 110	P	07/05/2013	21:17	LB66716
	Zinc	3960.90	2500.0	158.4	90 - 110	P	07/05/2013	21:17	LB66716
ICV01	Aluminum	2658.30	2521.0	105.4	90 - 110	P	07/15/2013	14:26	LB66836A
	Antimony	1002.00	994.0	100.8	90 - 110	P	07/15/2013	14:26	LB66836A
	Arsenic	993.75	999.0	99.5	90 - 110	P	07/15/2013	14:26	LB66836A
	Barium	520.18	503.0	103.4	90 - 110	P	07/15/2013	14:26	LB66836A
	Beryllium	496.79	495.0	100.4	90 - 110	P	07/15/2013	14:26	LB66836A
	Cadmium	503.11	496.0	101.4	90 - 110	P	07/15/2013	14:26	LB66836A
	Calcium	10324.00	10026.0	103.0	90 - 110	P	07/15/2013	14:26	LB66836A
	Chromium	501.97	490.0	102.4	90 - 110	P	07/15/2013	14:26	LB66836A
	Cobalt	508.44	499.0	101.9	90 - 110	P	07/15/2013	14:26	LB66836A
	Copper	522.95	492.0	106.3	90 - 110	P	07/15/2013	14:26	LB66836A
	Iron	5015.70	5082.0	98.7	90 - 110	P	07/15/2013	14:26	LB66836A
	Lead	1031.90	1002.0	103.0	90 - 110	P	07/15/2013	14:26	LB66836A

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Impact Environmental **SDG No.:** E2710

Contract: IMPA01 **Lab Code:** CHEM **Case No.:** E2710 **SAS No.:** E2710

Initial Calibration Source: EPA

Continuing Calibration Source: INORGANIC-VENTURES

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV01	Magnesium	6281.60	6074.0	103.4	90 - 110	P	07/15/2013	14:26	LB66836A
	Manganese	502.39	499.0	100.7	90 - 110	P	07/15/2013	14:26	LB66836A
	Nickel	510.40	503.0	101.5	90 - 110	P	07/15/2013	14:26	LB66836A
	Potassium	10489.00	10021.0	104.7	90 - 110	P	07/15/2013	14:26	LB66836A
	Selenium	1022.30	1003.0	101.9	90 - 110	P	07/15/2013	14:26	LB66836A
	Silver	468.93	501.0	93.6	90 - 110	P	07/15/2013	14:26	LB66836A
	Sodium	10379.00	10097.0	102.8	90 - 110	P	07/15/2013	14:26	LB66836A
	Thallium	1003.40	1003.0	100.0	90 - 110	P	07/15/2013	14:26	LB66836A
	Vanadium	499.02	501.0	99.6	90 - 110	P	07/15/2013	14:26	LB66836A
	Zinc	1003.40	1025.0	97.9	90 - 110	P	07/15/2013	14:26	LB66836A
CCV01	Aluminum	9862.30	10000.0	98.6	90 - 110	P	07/15/2013	15:08	LB66836A
	Antimony	4967.00	5000.0	99.3	90 - 110	P	07/15/2013	15:08	LB66836A
	Arsenic	4960.70	5000.0	99.2	90 - 110	P	07/15/2013	15:08	LB66836A
	Barium	9892.20	10000.0	98.9	90 - 110	P	07/15/2013	15:08	LB66836A
	Beryllium	247.06	250.0	98.8	90 - 110	P	07/15/2013	15:08	LB66836A
	Cadmium	2467.50	2500.0	98.7	90 - 110	P	07/15/2013	15:08	LB66836A
	Calcium	25510.00	25000.0	102.0	90 - 110	P	07/15/2013	15:08	LB66836A
	Chromium	989.01	1000.0	98.9	90 - 110	P	07/15/2013	15:08	LB66836A
	Cobalt	2459.90	2500.0	98.4	90 - 110	P	07/15/2013	15:08	LB66836A
	Copper	1237.70	1250.0	99.0	90 - 110	P	07/15/2013	15:08	LB66836A
	Iron	4892.10	5000.0	97.8	90 - 110	P	07/15/2013	15:08	LB66836A
	Lead	4929.40	5000.0	98.6	90 - 110	P	07/15/2013	15:08	LB66836A
	Magnesium	24924.00	25000.0	99.7	90 - 110	P	07/15/2013	15:08	LB66836A
	Manganese	2467.80	2500.0	98.7	90 - 110	P	07/15/2013	15:08	LB66836A
	Nickel	2471.10	2500.0	98.8	90 - 110	P	07/15/2013	15:08	LB66836A
	Potassium	24744.00	25000.0	99.0	90 - 110	P	07/15/2013	15:08	LB66836A
	Selenium	4989.20	5000.0	99.8	90 - 110	P	07/15/2013	15:08	LB66836A
	Silver	1227.10	1250.0	98.2	90 - 110	P	07/15/2013	15:08	LB66836A
	Sodium	24638.00	25000.0	98.6	90 - 110	P	07/15/2013	15:08	LB66836A
	Thallium	4928.00	5000.0	98.6	90 - 110	P	07/15/2013	15:08	LB66836A
	Vanadium	2464.60	2500.0	98.6	90 - 110	P	07/15/2013	15:08	LB66836A
	Zinc	2650.90	2500.0	106.0	90 - 110	P	07/15/2013	15:08	LB66836A

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Impact Environmental **SDG No.:** E2710

Contract: IMPA01 **Lab Code:** CHEM **Case No.:** E2710 **SAS No.:** E2710

Initial Calibration Source: EPA

Continuing Calibration Source: INORGANIC-VENTURES

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV02	Aluminum	9940.80	10000.0	99.4	90 - 110	P	07/15/2013	15:52	LB66836A
	Antimony	4897.80	5000.0	98.0	90 - 110	P	07/15/2013	15:52	LB66836A
	Arsenic	4892.20	5000.0	97.8	90 - 110	P	07/15/2013	15:52	LB66836A
	Barium	9800.70	10000.0	98.0	90 - 110	P	07/15/2013	15:52	LB66836A
	Beryllium	243.83	250.0	97.5	90 - 110	P	07/15/2013	15:52	LB66836A
	Cadmium	2418.10	2500.0	96.7	90 - 110	P	07/15/2013	15:52	LB66836A
	Calcium	25230.00	25000.0	100.9	90 - 110	P	07/15/2013	15:52	LB66836A
	Chromium	968.35	1000.0	96.8	90 - 110	P	07/15/2013	15:52	LB66836A
	Cobalt	2409.60	2500.0	96.4	90 - 110	P	07/15/2013	15:52	LB66836A
	Copper	1212.00	1250.0	97.0	90 - 110	P	07/15/2013	15:52	LB66836A
	Iron	4857.00	5000.0	97.1	90 - 110	P	07/15/2013	15:52	LB66836A
	Lead	4819.00	5000.0	96.4	90 - 110	P	07/15/2013	15:52	LB66836A
	Magnesium	24832.00	25000.0	99.3	90 - 110	P	07/15/2013	15:52	LB66836A
	Manganese	2409.30	2500.0	96.4	90 - 110	P	07/15/2013	15:52	LB66836A
	Nickel	2424.60	2500.0	97.0	90 - 110	P	07/15/2013	15:52	LB66836A
	Potassium	24726.00	25000.0	98.9	90 - 110	P	07/15/2013	15:52	LB66836A
	Selenium	4912.10	5000.0	98.2	90 - 110	P	07/15/2013	15:52	LB66836A
	Silver	1209.40	1250.0	96.8	90 - 110	P	07/15/2013	15:52	LB66836A
	Sodium	24564.00	25000.0	98.3	90 - 110	P	07/15/2013	15:52	LB66836A
	Thallium	4835.60	5000.0	96.7	90 - 110	P	07/15/2013	15:52	LB66836A
	Vanadium	2422.70	2500.0	96.9	90 - 110	P	07/15/2013	15:52	LB66836A
	Zinc	2608.70	2500.0	104.3	90 - 110	P	07/15/2013	15:52	LB66836A
CCV03	Aluminum	9883.40	10000.0	98.8	90 - 110	P	07/15/2013	16:33	LB66836A
	Antimony	4928.70	5000.0	98.6	90 - 110	P	07/15/2013	16:33	LB66836A
	Arsenic	4938.00	5000.0	98.8	90 - 110	P	07/15/2013	16:33	LB66836A
	Barium	9877.30	10000.0	98.8	90 - 110	P	07/15/2013	16:33	LB66836A
	Beryllium	245.31	250.0	98.1	90 - 110	P	07/15/2013	16:33	LB66836A
	Cadmium	2443.50	2500.0	97.7	90 - 110	P	07/15/2013	16:33	LB66836A
	Calcium	25434.00	25000.0	101.7	90 - 110	P	07/15/2013	16:33	LB66836A
	Chromium	976.27	1000.0	97.6	90 - 110	P	07/15/2013	16:33	LB66836A
	Cobalt	2431.80	2500.0	97.3	90 - 110	P	07/15/2013	16:33	LB66836A
	Copper	1223.60	1250.0	97.9	90 - 110	P	07/15/2013	16:33	LB66836A

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Impact Environmental **SDG No.:** E2710

Contract: IMPA01 **Lab Code:** CHEM **Case No.:** E2710 **SAS No.:** E2710

Initial Calibration Source: EPA

Continuing Calibration Source: INORGANIC-VENTURES

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV03	Iron	4945.60	5000.0	98.9	90 - 110	P	07/15/2013	16:33	LB66836A
	Lead	4860.90	5000.0	97.2	90 - 110	P	07/15/2013	16:33	LB66836A
	Magnesium	25137.00	25000.0	100.5	90 - 110	P	07/15/2013	16:33	LB66836A
	Manganese	2438.20	2500.0	97.5	90 - 110	P	07/15/2013	16:33	LB66836A
	Nickel	2443.50	2500.0	97.7	90 - 110	P	07/15/2013	16:33	LB66836A
	Potassium	24896.00	25000.0	99.6	90 - 110	P	07/15/2013	16:33	LB66836A
	Selenium	4955.20	5000.0	99.1	90 - 110	P	07/15/2013	16:33	LB66836A
	Silver	1216.40	1250.0	97.3	90 - 110	P	07/15/2013	16:33	LB66836A
	Sodium	24835.00	25000.0	99.3	90 - 110	P	07/15/2013	16:33	LB66836A
	Thallium	4877.30	5000.0	97.5	90 - 110	P	07/15/2013	16:33	LB66836A
	Vanadium	2440.00	2500.0	97.6	90 - 110	P	07/15/2013	16:33	LB66836A
	Zinc	2627.40	2500.0	105.1	90 - 110	P	07/15/2013	16:33	LB66836A
CCV04	Aluminum	9877.40	10000.0	98.8	90 - 110	P	07/15/2013	17:13	LB66836A
	Antimony	4851.50	5000.0	97.0	90 - 110	P	07/15/2013	17:13	LB66836A
	Arsenic	4870.40	5000.0	97.4	90 - 110	P	07/15/2013	17:13	LB66836A
	Barium	9698.60	10000.0	97.0	90 - 110	P	07/15/2013	17:13	LB66836A
	Beryllium	241.73	250.0	96.7	90 - 110	P	07/15/2013	17:13	LB66836A
	Cadmium	2420.90	2500.0	96.8	90 - 110	P	07/15/2013	17:13	LB66836A
	Calcium	24987.00	25000.0	99.9	90 - 110	P	07/15/2013	17:13	LB66836A
	Chromium	962.50	1000.0	96.2	90 - 110	P	07/15/2013	17:13	LB66836A
	Cobalt	2393.40	2500.0	95.7	90 - 110	P	07/15/2013	17:13	LB66836A
	Copper	1202.00	1250.0	96.2	90 - 110	P	07/15/2013	17:13	LB66836A
	Iron	4745.30	5000.0	94.9	90 - 110	P	07/15/2013	17:13	LB66836A
	Lead	4801.50	5000.0	96.0	90 - 110	P	07/15/2013	17:13	LB66836A
	Magnesium	24668.00	25000.0	98.7	90 - 110	P	07/15/2013	17:13	LB66836A
	Manganese	2391.00	2500.0	95.6	90 - 110	P	07/15/2013	17:13	LB66836A
	Nickel	2414.00	2500.0	96.6	90 - 110	P	07/15/2013	17:13	LB66836A
	Potassium	24478.00	25000.0	97.9	90 - 110	P	07/15/2013	17:13	LB66836A
	Selenium	4889.50	5000.0	97.8	90 - 110	P	07/15/2013	17:13	LB66836A
	Silver	1200.60	1250.0	96.0	90 - 110	P	07/15/2013	17:13	LB66836A
	Sodium	24417.00	25000.0	97.7	90 - 110	P	07/15/2013	17:13	LB66836A
	Thallium	4840.20	5000.0	96.8	90 - 110	P	07/15/2013	17:13	LB66836A

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Impact Environmental **SDG No.:** E2710

Contract: IMPA01 **Lab Code:** CHEM **Case No.:** E2710 **SAS No.:** E2710

Initial Calibration Source: EPA

Continuing Calibration Source: INORGANIC-VENTURES

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV04	Vanadium	2411.90	2500.0	96.5	90 - 110	P	07/15/2013	17:13	LB66836A
	Zinc	2588.90	2500.0	103.6	90 - 110	P	07/15/2013	17:13	LB66836A
CCV05	Aluminum	9795.10	10000.0	98.0	90 - 110	P	07/15/2013	17:54	LB66836A
	Antimony	4867.30	5000.0	97.3	90 - 110	P	07/15/2013	17:54	LB66836A
	Arsenic	4889.70	5000.0	97.8	90 - 110	P	07/15/2013	17:54	LB66836A
	Barium	9745.50	10000.0	97.5	90 - 110	P	07/15/2013	17:54	LB66836A
	Beryllium	241.28	250.0	96.5	90 - 110	P	07/15/2013	17:54	LB66836A
	Cadmium	2435.00	2500.0	97.4	90 - 110	P	07/15/2013	17:54	LB66836A
	Calcium	25132.00	25000.0	100.5	90 - 110	P	07/15/2013	17:54	LB66836A
	Chromium	960.19	1000.0	96.0	90 - 110	P	07/15/2013	17:54	LB66836A
	Cobalt	2401.30	2500.0	96.1	90 - 110	P	07/15/2013	17:54	LB66836A
	Copper	1200.70	1250.0	96.1	90 - 110	P	07/15/2013	17:54	LB66836A
	Iron	4842.10	5000.0	96.8	90 - 110	P	07/15/2013	17:54	LB66836A
	Lead	4819.80	5000.0	96.4	90 - 110	P	07/15/2013	17:54	LB66836A
	Magnesium	24758.00	25000.0	99.0	90 - 110	P	07/15/2013	17:54	LB66836A
	Manganese	2382.70	2500.0	95.3	90 - 110	P	07/15/2013	17:54	LB66836A
	Nickel	2423.90	2500.0	97.0	90 - 110	P	07/15/2013	17:54	LB66836A
	Potassium	24549.00	25000.0	98.2	90 - 110	P	07/15/2013	17:54	LB66836A
	Selenium	4915.10	5000.0	98.3	90 - 110	P	07/15/2013	17:54	LB66836A
	Silver	1200.80	1250.0	96.1	90 - 110	P	07/15/2013	17:54	LB66836A
	Sodium	24558.00	25000.0	98.2	90 - 110	P	07/15/2013	17:54	LB66836A
	Thallium	4859.80	5000.0	97.2	90 - 110	P	07/15/2013	17:54	LB66836A
	Vanadium	2411.20	2500.0	96.4	90 - 110	P	07/15/2013	17:54	LB66836A
	Zinc	2593.60	2500.0	103.7	90 - 110	P	07/15/2013	17:54	LB66836A
CCV06	Aluminum	9697.40	10000.0	97.0	90 - 110	P	07/15/2013	18:35	LB66836A
	Antimony	4811.40	5000.0	96.2	90 - 110	P	07/15/2013	18:35	LB66836A
	Arsenic	4834.40	5000.0	96.7	90 - 110	P	07/15/2013	18:35	LB66836A
	Barium	9700.70	10000.0	97.0	90 - 110	P	07/15/2013	18:35	LB66836A
	Beryllium	241.76	250.0	96.7	90 - 110	P	07/15/2013	18:35	LB66836A
	Cadmium	2393.80	2500.0	95.8	90 - 110	P	07/15/2013	18:35	LB66836A
	Calcium	24987.00	25000.0	99.9	90 - 110	P	07/15/2013	18:35	LB66836A
	Chromium	959.80	1000.0	96.0	90 - 110	P	07/15/2013	18:35	LB66836A

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Impact Environmental **SDG No.:** E2710

Contract: IMPA01 **Lab Code:** CHEM **Case No.:** E2710 **SAS No.:** E2710

Initial Calibration Source: EPA

Continuing Calibration Source: INORGANIC-VENTURES

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV06	Cobalt	2364.50	2500.0	94.6	90 - 110	P	07/15/2013	18:35	LB66836A
	Copper	1183.20	1250.0	94.7	90 - 110	P	07/15/2013	18:35	LB66836A
	Iron	4663.90	5000.0	93.3	90 - 110	P	07/15/2013	18:35	LB66836A
	Lead	4734.50	5000.0	94.7	90 - 110	P	07/15/2013	18:35	LB66836A
	Magnesium	24928.00	25000.0	99.7	90 - 110	P	07/15/2013	18:35	LB66836A
	Manganese	2369.50	2500.0	94.8	90 - 110	P	07/15/2013	18:35	LB66836A
	Nickel	2387.60	2500.0	95.5	90 - 110	P	07/15/2013	18:35	LB66836A
	Potassium	24648.00	25000.0	98.6	90 - 110	P	07/15/2013	18:35	LB66836A
	Selenium	4850.90	5000.0	97.0	90 - 110	P	07/15/2013	18:35	LB66836A
	Silver	1198.80	1250.0	95.9	90 - 110	P	07/15/2013	18:35	LB66836A
	Sodium	24731.00	25000.0	98.9	90 - 110	P	07/15/2013	18:35	LB66836A
	Thallium	4781.80	5000.0	95.6	90 - 110	P	07/15/2013	18:35	LB66836A
	Vanadium	2416.00	2500.0	96.6	90 - 110	P	07/15/2013	18:35	LB66836A
	Zinc	2563.50	2500.0	102.5	90 - 110	P	07/15/2013	18:35	LB66836A
CCV07	Aluminum	9830.40	10000.0	98.3	90 - 110	P	07/15/2013	19:15	LB66836A
	Antimony	4892.70	5000.0	97.9	90 - 110	P	07/15/2013	19:15	LB66836A
	Arsenic	4916.50	5000.0	98.3	90 - 110	P	07/15/2013	19:15	LB66836A
	Barium	9769.60	10000.0	97.7	90 - 110	P	07/15/2013	19:15	LB66836A
	Beryllium	243.75	250.0	97.5	90 - 110	P	07/15/2013	19:15	LB66836A
	Cadmium	2456.50	2500.0	98.3	90 - 110	P	07/15/2013	19:15	LB66836A
	Calcium	24404.00	25000.0	97.6	90 - 110	P	07/15/2013	19:15	LB66836A
	Chromium	969.07	1000.0	96.9	90 - 110	P	07/15/2013	19:15	LB66836A
	Cobalt	2410.60	2500.0	96.4	90 - 110	P	07/15/2013	19:15	LB66836A
	Copper	1203.10	1250.0	96.2	90 - 110	P	07/15/2013	19:15	LB66836A
	Iron	4753.40	5000.0	95.1	90 - 110	P	07/15/2013	19:15	LB66836A
	Lead	4838.90	5000.0	96.8	90 - 110	P	07/15/2013	19:15	LB66836A
	Magnesium	25209.00	25000.0	100.8	90 - 110	P	07/15/2013	19:15	LB66836A
	Manganese	2387.80	2500.0	95.5	90 - 110	P	07/15/2013	19:15	LB66836A
	Nickel	2441.20	2500.0	97.6	90 - 110	P	07/15/2013	19:15	LB66836A
	Potassium	24750.00	25000.0	99.0	90 - 110	P	07/15/2013	19:15	LB66836A
	Selenium	4947.20	5000.0	98.9	90 - 110	P	07/15/2013	19:15	LB66836A
	Silver	1206.70	1250.0	96.5	90 - 110	P	07/15/2013	19:15	LB66836A

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Impact Environmental **SDG No.:** E2710

Contract: IMPA01 **Lab Code:** CHEM **Case No.:** E2710 **SAS No.:** E2710

Initial Calibration Source: EPA

Continuing Calibration Source: INORGANIC-VENTURES

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV07	Sodium	25127.00	25000.0	100.5	90 - 110	P	07/15/2013	19:15	LB66836A
	Thallium	4905.20	5000.0	98.1	90 - 110	P	07/15/2013	19:15	LB66836A
	Vanadium	2433.50	2500.0	97.3	90 - 110	P	07/15/2013	19:15	LB66836A
	Zinc	2388.40	2500.0	95.5	90 - 110	P	07/15/2013	19:15	LB66836A
CCV08	Aluminum	9582.30	10000.0	95.8	90 - 110	P	07/15/2013	19:56	LB66836A
	Antimony	4764.70	5000.0	95.3	90 - 110	P	07/15/2013	19:56	LB66836A
	Arsenic	4802.10	5000.0	96.0	90 - 110	P	07/15/2013	19:56	LB66836A
	Barium	9495.10	10000.0	95.0	90 - 110	P	07/15/2013	19:56	LB66836A
	Beryllium	237.52	250.0	95.0	90 - 110	P	07/15/2013	19:56	LB66836A
	Cadmium	2389.40	2500.0	95.6	90 - 110	P	07/15/2013	19:56	LB66836A
	Calcium	24740.00	25000.0	99.0	90 - 110	P	07/15/2013	19:56	LB66836A
	Chromium	946.17	1000.0	94.6	90 - 110	P	07/15/2013	19:56	LB66836A
	Cobalt	2343.00	2500.0	93.7	90 - 110	P	07/15/2013	19:56	LB66836A
	Copper	1170.70	1250.0	93.7	90 - 110	P	07/15/2013	19:56	LB66836A
	Iron	4740.40	5000.0	94.8	90 - 110	P	07/15/2013	19:56	LB66836A
	Lead	4705.70	5000.0	94.1	90 - 110	P	07/15/2013	19:56	LB66836A
	Magnesium	24530.00	25000.0	98.1	90 - 110	P	07/15/2013	19:56	LB66836A
	Manganese	2337.70	2500.0	93.5	90 - 110	P	07/15/2013	19:56	LB66836A
	Nickel	2375.60	2500.0	95.0	90 - 110	P	07/15/2013	19:56	LB66836A
	Potassium	24397.00	25000.0	97.6	90 - 110	P	07/15/2013	19:56	LB66836A
	Selenium	4819.10	5000.0	96.4	90 - 110	P	07/15/2013	19:56	LB66836A
	Silver	1175.00	1250.0	94.0	90 - 110	P	07/15/2013	19:56	LB66836A
	Sodium	24319.00	25000.0	97.3	90 - 110	P	07/15/2013	19:56	LB66836A
	Thallium	4762.70	5000.0	95.3	90 - 110	P	07/15/2013	19:56	LB66836A
	Vanadium	2371.20	2500.0	94.8	90 - 110	P	07/15/2013	19:56	LB66836A
	Zinc	2536.40	2500.0	101.5	90 - 110	P	07/15/2013	19:56	LB66836A
CCV09	Aluminum	9635.10	10000.0	96.4	90 - 110	P	07/15/2013	20:36	LB66836A
	Antimony	4862.60	5000.0	97.3	90 - 110	P	07/15/2013	20:36	LB66836A
	Arsenic	4887.40	5000.0	97.7	90 - 110	P	07/15/2013	20:36	LB66836A
	Barium	9646.90	10000.0	96.5	90 - 110	P	07/15/2013	20:36	LB66836A
	Beryllium	242.37	250.0	96.9	90 - 110	P	07/15/2013	20:36	LB66836A
	Cadmium	2433.50	2500.0	97.3	90 - 110	P	07/15/2013	20:36	LB66836A

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Impact Environmental **SDG No.:** E2710

Contract: IMPA01 **Lab Code:** CHEM **Case No.:** E2710 **SAS No.:** E2710

Initial Calibration Source: EPA

Continuing Calibration Source: INORGANIC-VENTURES

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV09	Calcium	24387.00	25000.0	97.5	90 - 110	P	07/15/2013	20:36	LB66836A
	Chromium	966.31	1000.0	96.6	90 - 110	P	07/15/2013	20:36	LB66836A
	Cobalt	2395.60	2500.0	95.8	90 - 110	P	07/15/2013	20:36	LB66836A
	Copper	1201.60	1250.0	96.1	90 - 110	P	07/15/2013	20:36	LB66836A
	Iron	4820.40	5000.0	96.4	90 - 110	P	07/15/2013	20:36	LB66836A
	Lead	4795.20	5000.0	95.9	90 - 110	P	07/15/2013	20:36	LB66836A
	Magnesium	24773.00	25000.0	99.1	90 - 110	P	07/15/2013	20:36	LB66836A
	Manganese	2386.00	2500.0	95.4	90 - 110	P	07/15/2013	20:36	LB66836A
	Nickel	2419.70	2500.0	96.8	90 - 110	P	07/15/2013	20:36	LB66836A
	Potassium	24566.00	25000.0	98.3	90 - 110	P	07/15/2013	20:36	LB66836A
	Selenium	4904.30	5000.0	98.1	90 - 110	P	07/15/2013	20:36	LB66836A
	Silver	1199.80	1250.0	96.0	90 - 110	P	07/15/2013	20:36	LB66836A
	Sodium	24862.00	25000.0	99.4	90 - 110	P	07/15/2013	20:36	LB66836A
	Thallium	4850.80	5000.0	97.0	90 - 110	P	07/15/2013	20:36	LB66836A
	Vanadium	2426.90	2500.0	97.1	90 - 110	P	07/15/2013	20:36	LB66836A
	Zinc	2368.70	2500.0	94.7	90 - 110	P	07/15/2013	20:36	LB66836A
CCV10	Aluminum	9464.30	10000.0	94.6	90 - 110	P	07/15/2013	21:17	LB66836A
	Antimony	4751.90	5000.0	95.0	90 - 110	P	07/15/2013	21:17	LB66836A
	Arsenic	4759.80	5000.0	95.2	90 - 110	P	07/15/2013	21:17	LB66836A
	Barium	9343.60	10000.0	93.4	90 - 110	P	07/15/2013	21:17	LB66836A
	Beryllium	237.11	250.0	94.8	90 - 110	P	07/15/2013	21:17	LB66836A
	Cadmium	2368.90	2500.0	94.8	90 - 110	P	07/15/2013	21:17	LB66836A
	Calcium	24525.00	25000.0	98.1	90 - 110	P	07/15/2013	21:17	LB66836A
	Chromium	944.68	1000.0	94.5	90 - 110	P	07/15/2013	21:17	LB66836A
	Cobalt	2341.80	2500.0	93.7	90 - 110	P	07/15/2013	21:17	LB66836A
	Copper	1177.60	1250.0	94.2	90 - 110	P	07/15/2013	21:17	LB66836A
	Iron	4582.70	5000.0	91.7	90 - 110	P	07/15/2013	21:17	LB66836A
	Lead	4687.20	5000.0	93.7	90 - 110	P	07/15/2013	21:17	LB66836A
	Magnesium	23765.00	25000.0	95.1	90 - 110	P	07/15/2013	21:17	LB66836A
	Manganese	2348.90	2500.0	94.0	90 - 110	P	07/15/2013	21:17	LB66836A
	Nickel	2360.00	2500.0	94.4	90 - 110	P	07/15/2013	21:17	LB66836A
	Potassium	23561.00	25000.0	94.2	90 - 110	P	07/15/2013	21:17	LB66836A

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Impact Environmental **SDG No.:** E2710

Contract: IMPA01 **Lab Code:** CHEM **Case No.:** E2710 **SAS No.:** E2710

Initial Calibration Source: EPA

Continuing Calibration Source: INORGANIC-VENTURES

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV10	Selenium	4782.40	5000.0	95.6	90 - 110	P	07/15/2013	21:17	LB66836A
	Silver	1169.00	1250.0	93.5	90 - 110	P	07/15/2013	21:17	LB66836A
	Sodium	23988.00	25000.0	96.0	90 - 110	P	07/15/2013	21:17	LB66836A
	Thallium	4723.20	5000.0	94.5	90 - 110	P	07/15/2013	21:17	LB66836A
	Vanadium	2363.50	2500.0	94.5	90 - 110	P	07/15/2013	21:17	LB66836A
	Zinc	2522.80	2500.0	100.9	90 - 110	P	07/15/2013	21:17	LB66836A
CCV11	Aluminum	9472.50	10000.0	94.7	90 - 110	P	07/15/2013	22:04	LB66836A
	Antimony	4731.70	5000.0	94.6	90 - 110	P	07/15/2013	22:04	LB66836A
	Arsenic	4741.50	5000.0	94.8	90 - 110	P	07/15/2013	22:04	LB66836A
	Barium	9127.50	10000.0	91.3	90 - 110	P	07/15/2013	22:04	LB66836A
	Beryllium	236.18	250.0	94.5	90 - 110	P	07/15/2013	22:04	LB66836A
	Cadmium	2352.70	2500.0	94.1	90 - 110	P	07/15/2013	22:04	LB66836A
	Calcium	24470.00	25000.0	97.9	90 - 110	P	07/15/2013	22:04	LB66836A
	Chromium	937.49	1000.0	93.7	90 - 110	P	07/15/2013	22:04	LB66836A
	Cobalt	2329.30	2500.0	93.2	90 - 110	P	07/15/2013	22:04	LB66836A
	Copper	1174.80	1250.0	94.0	90 - 110	P	07/15/2013	22:04	LB66836A
	Iron	4654.10	5000.0	93.1	90 - 110	P	07/15/2013	22:04	LB66836A
	Lead	4659.90	5000.0	93.2	90 - 110	P	07/15/2013	22:04	LB66836A
	Magnesium	22801.00	25000.0	91.2	90 - 110	P	07/15/2013	22:04	LB66836A
	Manganese	2338.50	2500.0	93.5	90 - 110	P	07/15/2013	22:04	LB66836A
	Nickel	2346.70	2500.0	93.9	90 - 110	P	07/15/2013	22:04	LB66836A
	Potassium	22946.00	25000.0	91.8	90 - 110	P	07/15/2013	22:04	LB66836A
	Selenium	4757.50	5000.0	95.2	90 - 110	P	07/15/2013	22:04	LB66836A
	Silver	1159.20	1250.0	92.7	90 - 110	P	07/15/2013	22:04	LB66836A
	Sodium	23635.00	25000.0	94.5	90 - 110	P	07/15/2013	22:04	LB66836A
	Thallium	4696.60	5000.0	93.9	90 - 110	P	07/15/2013	22:04	LB66836A
	Vanadium	2346.60	2500.0	93.9	90 - 110	P	07/15/2013	22:04	LB66836A
	Zinc	2509.60	2500.0	100.4	90 - 110	P	07/15/2013	22:04	LB66836A
CCV12	Aluminum	9475.80	10000.0	94.8	90 - 110	P	07/15/2013	22:28	LB66836A
	Antimony	4746.70	5000.0	94.9	90 - 110	P	07/15/2013	22:28	LB66836A
	Arsenic	4750.00	5000.0	95.0	90 - 110	P	07/15/2013	22:28	LB66836A
	Barium	8990.90	10000.0	89.9	90 - 110	P	07/15/2013	22:28	LB66836A

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Impact Environmental **SDG No.:** E2710

Contract: IMPA01 **Lab Code:** CHEM **Case No.:** E2710 **SAS No.:** E2710

Initial Calibration Source: EPA

Continuing Calibration Source: INORGANIC-VENTURES

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV12	Beryllium	236.80	250.0	94.7	90 - 110	P	07/15/2013	22:28	LB66836A
	Cadmium	2364.60	2500.0	94.6	90 - 110	P	07/15/2013	22:28	LB66836A
	Calcium	24200.00	25000.0	96.8	90 - 110	P	07/15/2013	22:28	LB66836A
	Chromium	945.13	1000.0	94.5	90 - 110	P	07/15/2013	22:28	LB66836A
	Cobalt	2337.00	2500.0	93.5	90 - 110	P	07/15/2013	22:28	LB66836A
	Copper	1178.70	1250.0	94.3	90 - 110	P	07/15/2013	22:28	LB66836A
	Iron	4605.10	5000.0	92.1	90 - 110	P	07/15/2013	22:28	LB66836A
	Lead	4678.70	5000.0	93.6	90 - 110	P	07/15/2013	22:28	LB66836A
	Magnesium	22373.00	25000.0	89.5	90 - 110	P	07/15/2013	22:28	LB66836A
	Manganese	2354.00	2500.0	94.2	90 - 110	P	07/15/2013	22:28	LB66836A
	Nickel	2354.40	2500.0	94.2	90 - 110	P	07/15/2013	22:28	LB66836A
	Potassium	22596.00	25000.0	90.4	90 - 110	P	07/15/2013	22:28	LB66836A
	Selenium	4773.50	5000.0	95.5	90 - 110	P	07/15/2013	22:28	LB66836A
	Silver	1163.10	1250.0	93.0	90 - 110	P	07/15/2013	22:28	LB66836A
	Sodium	23413.00	25000.0	93.7	90 - 110	P	07/15/2013	22:28	LB66836A
	Thallium	4711.50	5000.0	94.2	90 - 110	P	07/15/2013	22:28	LB66836A
	Vanadium	2358.60	2500.0	94.3	90 - 110	P	07/15/2013	22:28	LB66836A
	Zinc	2515.30	2500.0	100.6	90 - 110	P	07/15/2013	22:28	LB66836A

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Impact Environmental **SDG No.:** E2710

Contract: IMPA01 **Lab Code:** CHEM **Case No.:** E2710 **SAS No.:** E2710

Initial Calibration Source: EPA

Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV01	Mercury	3.98	4.0	99.5	90 - 110	CV	07/01/2013	12:37	LB66640
CCV01	Mercury	5.21	5.0	104.2	90 - 110	CV	07/01/2013	12:41	LB66640
CCV02	Mercury	5.28	5.0	105.6	90 - 110	CV	07/01/2013	13:05	LB66640
CCV03	Mercury	5.30	5.0	106.0	90 - 110	CV	07/01/2013	13:32	LB66640
CCV04	Mercury	5.18	5.0	103.6	90 - 110	CV	07/01/2013	13:54	LB66640
CCV05	Mercury	5.07	5.0	101.4	90 - 110	CV	07/01/2013	14:19	LB66640
CCV06	Mercury	5.04	5.0	100.8	90 - 110	CV	07/01/2013	14:42	LB66640
CCV07	Mercury	4.92	5.0	98.4	90 - 110	CV	07/01/2013	14:58	LB66640

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CRDL STANDARD FOR AA & ICP

Client: Impact Environmental **SDG No.:** E2710

Contract: IMPA01 **Lab Code:** CHEM **Case No.:** E2710 **SAS No.:** E2710

Initial Calibration Source: PLASMA-PURE

Continuing Calibration Source:

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CRI01	Mercury	0.25	0.2	125.0	70 - 130	CV	07/01/2013	12:48	LB66640
CRI01	Aluminum	105.22	100.0	105.2	0 - 200	P	07/05/2013	12:42	LB66716
	Antimony	51.04	50.0	102.1	0 - 200	P	07/05/2013	12:42	LB66716
	Arsenic	15.55	20.0	77.8	40 - 160	P	07/05/2013	12:42	LB66716
	Barium	103.80	100.0	103.8	40 - 160	P	07/05/2013	12:42	LB66716
	Beryllium	6.06	6.0	101.0	40 - 160	P	07/05/2013	12:42	LB66716
	Cadmium	5.85	6.0	97.5	40 - 160	P	07/05/2013	12:42	LB66716
	Chromium	10.50	10.0	105.0	40 - 160	P	07/05/2013	12:42	LB66716
	Cobalt	29.87	30.0	99.6	40 - 160	P	07/05/2013	12:42	LB66716
	Copper	21.02	20.0	105.1	40 - 160	P	07/05/2013	12:42	LB66716
	Iron	103.680	100.0	103.68	0 - 200	P	07/05/2013	12:42	LB66716
	Lead	11.70	12.0	97.5	0 - 200	P	07/05/2013	12:42	LB66716
	Manganese	20.63	20.0	103.2	40 - 160	P	07/05/2013	12:42	LB66716
	Nickel	40.40	40.0	101.0	40 - 160	P	07/05/2013	12:42	LB66716
	Selenium	22.08	20.0	110.4	40 - 160	P	07/05/2013	12:42	LB66716
	Silver	10.01	10.0	100.1	40 - 160	P	07/05/2013	12:42	LB66716
	Thallium	39.07	40.0	97.7	0 - 200	P	07/05/2013	12:42	LB66716
	Vanadium	39.17	40.0	97.9	40 - 160	P	07/05/2013	12:42	LB66716
	Zinc	41.70	40.0	104.2	40 - 160	P	07/05/2013	12:42	LB66716
CRI02	Calcium	2082.40	2000.0	104.1	0 - 200	P	07/05/2013	12:45	LB66716
	Magnesium	2039.90	2000.0	102.0	0 - 200	P	07/05/2013	12:45	LB66716
	Potassium	1941.50	2000.0	97.1	0 - 200	P	07/05/2013	12:45	LB66716
	Sodium	2040.90	2000.0	102.0	0 - 200	P	07/05/2013	12:45	LB66716
CRI01	Aluminum	106.39	100.0	106.4	0 - 200	P	07/15/2013	14:44	LB66836A
	Antimony	50.06	50.0	100.1	0 - 200	P	07/15/2013	14:44	LB66836A
	Arsenic	18.98	20.0	94.9	40 - 160	P	07/15/2013	14:44	LB66836A
	Barium	105.34	100.0	105.3	40 - 160	P	07/15/2013	14:44	LB66836A
	Beryllium	6.07	6.0	101.2	40 - 160	P	07/15/2013	14:44	LB66836A
	Cadmium	5.70	6.0	95.0	40 - 160	P	07/15/2013	14:44	LB66836A
	Calcium	2033.40	2000.0	101.7	0 - 200	P	07/15/2013	14:44	LB66836A
	Chromium	10.14	10.0	101.4	40 - 160	P	07/15/2013	14:44	LB66836A
	Cobalt	29.36	30.0	97.9	40 - 160	P	07/15/2013	14:44	LB66836A
	Copper	19.95	20.0	99.8	40 - 160	P	07/15/2013	14:44	LB66836A
	Iron	101.790	100.0	101.79	0 - 200	P	07/15/2013	14:44	LB66836A
	Lead	12.22	12.0	101.8	0 - 200	P	07/15/2013	14:44	LB66836A

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CRDL STANDARD FOR AA & ICP

Client: Impact Environmental **SDG No.:** E2710

Contract: IMPA01 **Lab Code:** CHEM **Case No.:** E2710 **SAS No.:** E2710

Initial Calibration Source: PLASMA-PURE

Continuing Calibration Source:

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CRI01	Magnesium	2139.10	2000.0	107.0	0 - 200	P	07/15/2013	14:44	LB66836A
	Manganese	20.08	20.0	100.4	40 - 160	P	07/15/2013	14:44	LB66836A
	Nickel	39.76	40.0	99.4	40 - 160	P	07/15/2013	14:44	LB66836A
	Potassium	2154.70	2000.0	107.7	0 - 200	P	07/15/2013	14:44	LB66836A
	Selenium	20.11	20.0	100.6	40 - 160	P	07/15/2013	14:44	LB66836A
	Silver	8.65	10.0	86.5	40 - 160	P	07/15/2013	14:44	LB66836A
	Sodium	2117.20	2000.0	105.9	0 - 200	P	07/15/2013	14:44	LB66836A
	Thallium	37.99	40.0	95.0	0 - 200	P	07/15/2013	14:44	LB66836A
	Vanadium	38.58	40.0	96.4	40 - 160	P	07/15/2013	14:44	LB66836A
	Zinc	39.49	40.0	98.7	40 - 160	P	07/15/2013	14:44	LB66836A

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Impact Environmental **SDG No.:** E2710

Contract: IMPA01 **Lab Code:** CHEM **Case No.:** E2710 **SAS No.:** E2710

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	MDL	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Mercury	0.09	+/-0.20	U	0.09	0.20	CV	07/01/2013	12:39	LB66640
CCB01	Mercury	0.09	+/-0.20	U	0.09	0.20	CV	07/01/2013	12:43	LB66640
CCB02	Mercury	0.09	+/-0.20	U	0.09	0.20	CV	07/01/2013	13:07	LB66640
CCB03	Mercury	0.09	+/-0.20	U	0.09	0.20	CV	07/01/2013	13:33	LB66640
CCB04	Mercury	0.09	+/-0.20	U	0.09	0.20	CV	07/01/2013	13:55	LB66640
CCB05	Mercury	0.09	+/-0.20	U	0.09	0.20	CV	07/01/2013	14:20	LB66640
CCB06	Mercury	0.09	+/-0.20	U	0.09	0.20	CV	07/01/2013	14:44	LB66640
CCB07	Mercury	0.09	+/-0.20	U	0.09	0.20	CV	07/01/2013	15:12	LB66640
ICB01	Aluminum	6.5	+/-50.0	U	6.5	50.0	P	07/05/2013	12:38	LB66716
	Antimony	8.0	+/-25.0	U	8.0	25.0	P	07/05/2013	12:38	LB66716
	Arsenic	4.2	+/-10.0	U	4.2	10.0	P	07/05/2013	12:38	LB66716
	Barium	4.0	+/-50.0	U	4.0	50.0	P	07/05/2013	12:38	LB66716
	Beryllium	0.7	+/-3.0	U	0.7	3.0	P	07/05/2013	12:38	LB66716
	Cadmium	0.5	+/-3.0	U	0.5	3.0	P	07/05/2013	12:38	LB66716
	Calcium	31.8	+/-1000.0	U	31.8	1000.0	P	07/05/2013	12:38	LB66716
	Chromium	1.1	+/-5.0	U	1.1	5.0	P	07/05/2013	12:38	LB66716
	Cobalt	5.8	+/-15.0	U	5.8	15.0	P	07/05/2013	12:38	LB66716
	Copper	2.0	+/-10.0	U	2.0	10.0	P	07/05/2013	12:38	LB66716
	Iron	20.4	+/-50.0	U	20.4	50.0	P	07/05/2013	12:38	LB66716
	Lead	2.6	+/-6.0	U	2.6	6.0	P	07/05/2013	12:38	LB66716
	Magnesium	32.5	+/-1000.0	U	32.5	1000.0	P	07/05/2013	12:38	LB66716
	Manganese	1.7	+/-10.0	U	1.7	10.0	P	07/05/2013	12:38	LB66716
	Nickel	4.2	+/-20.0	U	4.2	20.0	P	07/05/2013	12:38	LB66716
	Potassium	38.8	+/-1000.0	U	38.8	1000.0	P	07/05/2013	12:38	LB66716
	Selenium	4.8	+/-10.0	U	4.8	10.0	P	07/05/2013	12:38	LB66716
	Silver	1.5	+/-5.0	U	1.5	5.0	P	07/05/2013	12:38	LB66716
	Sodium	20.1	+/-1000.0	J	13.9	1000.0	P	07/05/2013	12:38	LB66716
	Thallium	2.4	+/-20.0	U	2.4	20.0	P	07/05/2013	12:38	LB66716
	Vanadium	6.1	+/-20.0	U	6.1	20.0	P	07/05/2013	12:38	LB66716
	Zinc	6.5	+/-20.0	U	6.5	20.0	P	07/05/2013	12:38	LB66716
CCB01	Aluminum	6.5	+/-50.0	U	6.5	50.0	P	07/05/2013	13:06	LB66716
	Antimony	8.0	+/-25.0	U	8.0	25.0	P	07/05/2013	13:06	LB66716
	Arsenic	4.2	+/-10.0	U	4.2	10.0	P	07/05/2013	13:06	LB66716
	Barium	4.0	+/-50.0	U	4.0	50.0	P	07/05/2013	13:06	LB66716
	Beryllium	0.7	+/-3.0	U	0.7	3.0	P	07/05/2013	13:06	LB66716
	Cadmium	0.5	+/-3.0	U	0.5	3.0	P	07/05/2013	13:06	LB66716

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Impact Environmental **SDG No.:** E2710

Contract: IMPA01 **Lab Code:** CHEM **Case No.:** E2710 **SAS No.:** E2710

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	MDL	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB01	Calcium	31.8	+/-1000.0	U	31.8	1000.0	P	07/05/2013	13:06	LB66716
	Chromium	1.1	+/-5.0	U	1.1	5.0	P	07/05/2013	13:06	LB66716
	Cobalt	5.8	+/-15.0	U	5.8	15.0	P	07/05/2013	13:06	LB66716
	Copper	2.0	+/-10.0	U	2.0	10.0	P	07/05/2013	13:06	LB66716
	Iron	20.4	+/-50.0	U	20.4	50.0	P	07/05/2013	13:06	LB66716
	Lead	2.6	+/-6.0	U	2.6	6.0	P	07/05/2013	13:06	LB66716
	Magnesium	32.5	+/-1000.0	U	32.5	1000.0	P	07/05/2013	13:06	LB66716
	Manganese	1.7	+/-10.0	U	1.7	10.0	P	07/05/2013	13:06	LB66716
	Nickel	4.2	+/-20.0	U	4.2	20.0	P	07/05/2013	13:06	LB66716
	Potassium	38.8	+/-1000.0	U	38.8	1000.0	P	07/05/2013	13:06	LB66716
	Selenium	4.8	+/-10.0	U	4.8	10.0	P	07/05/2013	13:06	LB66716
	Silver	1.5	+/-5.0	U	1.5	5.0	P	07/05/2013	13:06	LB66716
	Sodium	13.9	+/-1000.0	U	13.9	1000.0	P	07/05/2013	13:06	LB66716
	Thallium	2.4	+/-20.0	U	2.4	20.0	P	07/05/2013	13:06	LB66716
	Vanadium	6.1	+/-20.0	U	6.1	20.0	P	07/05/2013	13:06	LB66716
	Zinc	6.5	+/-20.0	U	6.5	20.0	P	07/05/2013	13:06	LB66716
CCB02	Aluminum	7.1	+/-50.0	J	6.5	50.0	P	07/05/2013	13:47	LB66716
	Antimony	8.0	+/-25.0	U	8.0	25.0	P	07/05/2013	13:47	LB66716
	Arsenic	4.2	+/-10.0	U	4.2	10.0	P	07/05/2013	13:47	LB66716
	Barium	4.0	+/-50.0	U	4.0	50.0	P	07/05/2013	13:47	LB66716
	Beryllium	0.7	+/-3.0	U	0.7	3.0	P	07/05/2013	13:47	LB66716
	Cadmium	0.5	+/-3.0	U	0.5	3.0	P	07/05/2013	13:47	LB66716
	Calcium	31.8	+/-1000.0	U	31.8	1000.0	P	07/05/2013	13:47	LB66716
	Chromium	1.1	+/-5.0	U	1.1	5.0	P	07/05/2013	13:47	LB66716
	Cobalt	5.8	+/-15.0	U	5.8	15.0	P	07/05/2013	13:47	LB66716
	Copper	2.0	+/-10.0	U	2.0	10.0	P	07/05/2013	13:47	LB66716
	Iron	20.4	+/-50.0	U	20.4	50.0	P	07/05/2013	13:47	LB66716
	Lead	2.6	+/-6.0	U	2.6	6.0	P	07/05/2013	13:47	LB66716
	Magnesium	32.5	+/-1000.0	U	32.5	1000.0	P	07/05/2013	13:47	LB66716
	Manganese	1.7	+/-10.0	U	1.7	10.0	P	07/05/2013	13:47	LB66716
	Nickel	4.2	+/-20.0	U	4.2	20.0	P	07/05/2013	13:47	LB66716
	Potassium	101.4	+/-1000.0	J	38.8	1000.0	P	07/05/2013	13:47	LB66716
	Selenium	4.8	+/-10.0	U	4.8	10.0	P	07/05/2013	13:47	LB66716
	Silver	1.5	+/-5.0	U	1.5	5.0	P	07/05/2013	13:47	LB66716
	Sodium	68.0	+/-1000.0	J	13.9	1000.0	P	07/05/2013	13:47	LB66716
	Thallium	2.4	+/-20.0	U	2.4	20.0	P	07/05/2013	13:47	LB66716
	Vanadium	6.1	+/-20.0	U	6.1	20.0	P	07/05/2013	13:47	LB66716
	Zinc	6.5	+/-20.0	U	6.5	20.0	P	07/05/2013	13:47	LB66716
CCB03	Aluminum	6.5	+/-50.0	U	6.5	50.0	P	07/05/2013	14:34	LB66716
	Antimony	8.0	+/-25.0	U	8.0	25.0	P	07/05/2013	14:34	LB66716

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Impact Environmental **SDG No.:** E2710

Contract: IMPA01 **Lab Code:** CHEM **Case No.:** E2710 **SAS No.:** E2710

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	MDL	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB03	Arsenic	4.2	+/-10.0	U	4.2	10.0	P	07/05/2013	14:34	LB66716
	Barium	4.0	+/-50.0	U	4.0	50.0	P	07/05/2013	14:34	LB66716
	Beryllium	0.7	+/-3.0	U	0.7	3.0	P	07/05/2013	14:34	LB66716
	Cadmium	0.5	+/-3.0	U	0.5	3.0	P	07/05/2013	14:34	LB66716
	Calcium	31.8	+/-1000.0	U	31.8	1000.0	P	07/05/2013	14:34	LB66716
	Chromium	1.1	+/-5.0	U	1.1	5.0	P	07/05/2013	14:34	LB66716
	Cobalt	5.8	+/-15.0	U	5.8	15.0	P	07/05/2013	14:34	LB66716
	Copper	2.0	+/-10.0	U	2.0	10.0	P	07/05/2013	14:34	LB66716
	Iron	20.4	+/-50.0	U	20.4	50.0	P	07/05/2013	14:34	LB66716
	Lead	2.6	+/-6.0	U	2.6	6.0	P	07/05/2013	14:34	LB66716
	Magnesium	32.5	+/-1000.0	U	32.5	1000.0	P	07/05/2013	14:34	LB66716
	Manganese	1.7	+/-10.0	U	1.7	10.0	P	07/05/2013	14:34	LB66716
	Nickel	4.2	+/-20.0	U	4.2	20.0	P	07/05/2013	14:34	LB66716
	Potassium	38.8	+/-1000.0	U	38.8	1000.0	P	07/05/2013	14:34	LB66716
	Selenium	4.8	+/-10.0	U	4.8	10.0	P	07/05/2013	14:34	LB66716
	Silver	1.5	+/-5.0	U	1.5	5.0	P	07/05/2013	14:34	LB66716
	Sodium	48.2	+/-1000.0	J	13.9	1000.0	P	07/05/2013	14:34	LB66716
	Thallium	2.4	+/-20.0	U	2.4	20.0	P	07/05/2013	14:34	LB66716
	Vanadium	6.1	+/-20.0	U	6.1	20.0	P	07/05/2013	14:34	LB66716
	Zinc	6.5	+/-20.0	U	6.5	20.0	P	07/05/2013	14:34	LB66716
CCB04	Aluminum	6.5	+/-50.0	U	6.5	50.0	P	07/05/2013	15:15	LB66716
	Antimony	8.0	+/-25.0	U	8.0	25.0	P	07/05/2013	15:15	LB66716
	Arsenic	4.2	+/-10.0	U	4.2	10.0	P	07/05/2013	15:15	LB66716
	Barium	4.0	+/-50.0	U	4.0	50.0	P	07/05/2013	15:15	LB66716
	Beryllium	0.7	+/-3.0	U	0.7	3.0	P	07/05/2013	15:15	LB66716
	Cadmium	0.5	+/-3.0	U	0.5	3.0	P	07/05/2013	15:15	LB66716
	Calcium	31.8	+/-1000.0	U	31.8	1000.0	P	07/05/2013	15:15	LB66716
	Chromium	1.1	+/-5.0	U	1.1	5.0	P	07/05/2013	15:15	LB66716
	Cobalt	5.8	+/-15.0	U	5.8	15.0	P	07/05/2013	15:15	LB66716
	Copper	2.0	+/-10.0	U	2.0	10.0	P	07/05/2013	15:15	LB66716
	Iron	20.4	+/-50.0	U	20.4	50.0	P	07/05/2013	15:15	LB66716
	Lead	2.6	+/-6.0	U	2.6	6.0	P	07/05/2013	15:15	LB66716
	Magnesium	32.5	+/-1000.0	U	32.5	1000.0	P	07/05/2013	15:15	LB66716
	Manganese	1.7	+/-10.0	U	1.7	10.0	P	07/05/2013	15:15	LB66716
	Nickel	4.2	+/-20.0	U	4.2	20.0	P	07/05/2013	15:15	LB66716
	Potassium	38.8	+/-1000.0	U	38.8	1000.0	P	07/05/2013	15:15	LB66716
	Selenium	4.8	+/-10.0	U	4.8	10.0	P	07/05/2013	15:15	LB66716
	Silver	1.5	+/-5.0	U	1.5	5.0	P	07/05/2013	15:15	LB66716
	Sodium	37.5	+/-1000.0	J	13.9	1000.0	P	07/05/2013	15:15	LB66716
	Thallium	2.4	+/-20.0	U	2.4	20.0	P	07/05/2013	15:15	LB66716

Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Impact Environmental **SDG No.:** E2710

Contract: IMPA01 **Lab Code:** CHEM **Case No.:** E2710 **SAS No.:** E2710

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	MDL	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB04	Vanadium	6.1	+/-20.0	U	6.1	20.0	P	07/05/2013	15:15	LB66716
	Zinc	6.5	+/-20.0	U	6.5	20.0	P	07/05/2013	15:15	LB66716
CCB05	Aluminum	6.5	+/-50.0	U	6.5	50.0	P	07/05/2013	16:05	LB66716
	Antimony	8.0	+/-25.0	U	8.0	25.0	P	07/05/2013	16:05	LB66716
	Arsenic	4.2	+/-10.0	U	4.2	10.0	P	07/05/2013	16:05	LB66716
	Barium	4.0	+/-50.0	J	4.0	50.0	P	07/05/2013	16:05	LB66716
	Beryllium	0.7	+/-3.0	U	0.7	3.0	P	07/05/2013	16:05	LB66716
	Cadmium	0.5	+/-3.0	U	0.5	3.0	P	07/05/2013	16:05	LB66716
	Calcium	31.8	+/-1000.0	U	31.8	1000.0	P	07/05/2013	16:05	LB66716
	Chromium	1.1	+/-5.0	U	1.1	5.0	P	07/05/2013	16:05	LB66716
	Cobalt	5.8	+/-15.0	U	5.8	15.0	P	07/05/2013	16:05	LB66716
	Copper	2.0	+/-10.0	U	2.0	10.0	P	07/05/2013	16:05	LB66716
	Iron	20.4	+/-50.0	U	20.4	50.0	P	07/05/2013	16:05	LB66716
	Lead	2.6	+/-6.0	U	2.6	6.0	P	07/05/2013	16:05	LB66716
	Magnesium	32.5	+/-1000.0	U	32.5	1000.0	P	07/05/2013	16:05	LB66716
	Manganese	1.7	+/-10.0	U	1.7	10.0	P	07/05/2013	16:05	LB66716
	Nickel	4.2	+/-20.0	U	4.2	20.0	P	07/05/2013	16:05	LB66716
	Potassium	38.8	+/-1000.0	U	38.8	1000.0	P	07/05/2013	16:05	LB66716
	Selenium	4.8	+/-10.0	U	4.8	10.0	P	07/05/2013	16:05	LB66716
	Silver	1.5	+/-5.0	U	1.5	5.0	P	07/05/2013	16:05	LB66716
	Sodium	44.1	+/-1000.0	J	13.9	1000.0	P	07/05/2013	16:05	LB66716
	Thallium	2.4	+/-20.0	U	2.4	20.0	P	07/05/2013	16:05	LB66716
	Vanadium	6.1	+/-20.0	U	6.1	20.0	P	07/05/2013	16:05	LB66716
	Zinc	6.5	+/-20.0	U	6.5	20.0	P	07/05/2013	16:05	LB66716
CCB06	Aluminum	6.5	+/-50.0	U	6.5	50.0	P	07/05/2013	16:39	LB66716
	Antimony	8.0	+/-25.0	U	8.0	25.0	P	07/05/2013	16:39	LB66716
	Arsenic	4.2	+/-10.0	U	4.2	10.0	P	07/05/2013	16:39	LB66716
	Barium	4.1	+/-50.0	J	4.0	50.0	P	07/05/2013	16:39	LB66716
	Beryllium	0.7	+/-3.0	U	0.7	3.0	P	07/05/2013	16:39	LB66716
	Cadmium	0.5	+/-3.0	U	0.5	3.0	P	07/05/2013	16:39	LB66716
	Calcium	31.8	+/-1000.0	U	31.8	1000.0	P	07/05/2013	16:39	LB66716
	Chromium	1.1	+/-5.0	U	1.1	5.0	P	07/05/2013	16:39	LB66716
	Cobalt	5.8	+/-15.0	U	5.8	15.0	P	07/05/2013	16:39	LB66716
	Copper	2.0	+/-10.0	U	2.0	10.0	P	07/05/2013	16:39	LB66716
	Iron	20.4	+/-50.0	U	20.4	50.0	P	07/05/2013	16:39	LB66716
	Lead	2.6	+/-6.0	U	2.6	6.0	P	07/05/2013	16:39	LB66716
	Magnesium	32.5	+/-1000.0	U	32.5	1000.0	P	07/05/2013	16:39	LB66716
	Manganese	1.7	+/-10.0	U	1.7	10.0	P	07/05/2013	16:39	LB66716
	Nickel	4.2	+/-20.0	U	4.2	20.0	P	07/05/2013	16:39	LB66716
	Potassium	38.8	+/-1000.0	U	38.8	1000.0	P	07/05/2013	16:39	LB66716

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Impact Environmental **SDG No.:** E2710

Contract: IMPA01 **Lab Code:** CHEM **Case No.:** E2710 **SAS No.:** E2710

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	MDL	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB06	Selenium	4.8	+/-10.0	U	4.8	10.0	P	07/05/2013	16:39	LB66716
	Silver	1.5	+/-5.0	U	1.5	5.0	P	07/05/2013	16:39	LB66716
	Sodium	58.8	+/-1000.0	J	13.9	1000.0	P	07/05/2013	16:39	LB66716
	Thallium	2.4	+/-20.0	U	2.4	20.0	P	07/05/2013	16:39	LB66716
	Vanadium	6.1	+/-20.0	U	6.1	20.0	P	07/05/2013	16:39	LB66716
	Zinc	6.5	+/-20.0	U	6.5	20.0	P	07/05/2013	16:39	LB66716
CCB07	Aluminum	9.7	+/-50.0	J	6.5	50.0	P	07/05/2013	17:10	LB66716
	Antimony	8.0	+/-25.0	U	8.0	25.0	P	07/05/2013	17:10	LB66716
	Arsenic	4.2	+/-10.0	U	4.2	10.0	P	07/05/2013	17:10	LB66716
	Barium	5.9	+/-50.0	J	4.0	50.0	P	07/05/2013	17:10	LB66716
	Beryllium	0.7	+/-3.0	U	0.7	3.0	P	07/05/2013	17:10	LB66716
	Cadmium	0.5	+/-3.0	U	0.5	3.0	P	07/05/2013	17:10	LB66716
	Calcium	31.8	+/-1000.0	U	31.8	1000.0	P	07/05/2013	17:10	LB66716
	Chromium	1.1	+/-5.0	U	1.1	5.0	P	07/05/2013	17:10	LB66716
	Cobalt	5.8	+/-15.0	U	5.8	15.0	P	07/05/2013	17:10	LB66716
	Copper	2.0	+/-10.0	U	2.0	10.0	P	07/05/2013	17:10	LB66716
	Iron	20.4	+/-50.0	U	20.4	50.0	P	07/05/2013	17:10	LB66716
	Lead	2.6	+/-6.0	U	2.6	6.0	P	07/05/2013	17:10	LB66716
	Magnesium	32.5	+/-1000.0	U	32.5	1000.0	P	07/05/2013	17:10	LB66716
	Manganese	1.7	+/-10.0	U	1.7	10.0	P	07/05/2013	17:10	LB66716
	Nickel	4.2	+/-20.0	U	4.2	20.0	P	07/05/2013	17:10	LB66716
	Potassium	38.8	+/-1000.0	U	38.8	1000.0	P	07/05/2013	17:10	LB66716
	Selenium	4.8	+/-10.0	U	4.8	10.0	P	07/05/2013	17:10	LB66716
	Silver	1.5	+/-5.0	U	1.5	5.0	P	07/05/2013	17:10	LB66716
	Sodium	46.7	+/-1000.0	J	13.9	1000.0	P	07/05/2013	17:10	LB66716
	Thallium	2.4	+/-20.0	U	2.4	20.0	P	07/05/2013	17:10	LB66716
	Vanadium	6.1	+/-20.0	U	6.1	20.0	P	07/05/2013	17:10	LB66716
	Zinc	6.5	+/-20.0	U	6.5	20.0	P	07/05/2013	17:10	LB66716
CCB08	Aluminum	6.5	+/-50.0	U	6.5	50.0	P	07/05/2013	17:50	LB66716
	Antimony	8.0	+/-25.0	U	8.0	25.0	P	07/05/2013	17:50	LB66716
	Arsenic	4.2	+/-10.0	U	4.2	10.0	P	07/05/2013	17:50	LB66716
	Barium	4.2	+/-50.0	J	4.0	50.0	P	07/05/2013	17:50	LB66716
	Beryllium	0.7	+/-3.0	U	0.7	3.0	P	07/05/2013	17:50	LB66716
	Cadmium	0.5	+/-3.0	U	0.5	3.0	P	07/05/2013	17:50	LB66716
	Calcium	31.8	+/-1000.0	U	31.8	1000.0	P	07/05/2013	17:50	LB66716
	Chromium	1.1	+/-5.0	U	1.1	5.0	P	07/05/2013	17:50	LB66716
	Cobalt	5.8	+/-15.0	U	5.8	15.0	P	07/05/2013	17:50	LB66716
	Copper	2.0	+/-10.0	U	2.0	10.0	P	07/05/2013	17:50	LB66716
	Iron	20.4	+/-50.0	U	20.4	50.0	P	07/05/2013	17:50	LB66716
	Lead	2.6	+/-6.0	U	2.6	6.0	P	07/05/2013	17:50	LB66716

Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Impact Environmental **SDG No.:** E2710

Contract: IMPA01 **Lab Code:** CHEM **Case No.:** E2710 **SAS No.:** E2710

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	MDL	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB08	Magnesium	32.5	+/-1000.0	U	32.5	1000.0	P	07/05/2013	17:50	LB66716
	Manganese	1.7	+/-10.0	U	1.7	10.0	P	07/05/2013	17:50	LB66716
	Nickel	4.2	+/-20.0	U	4.2	20.0	P	07/05/2013	17:50	LB66716
	Potassium	38.8	+/-1000.0	U	38.8	1000.0	P	07/05/2013	17:50	LB66716
	Selenium	4.8	+/-10.0	U	4.8	10.0	P	07/05/2013	17:50	LB66716
	Silver	1.5	+/-5.0	U	1.5	5.0	P	07/05/2013	17:50	LB66716
	Sodium	60.9	+/-1000.0	J	13.9	1000.0	P	07/05/2013	17:50	LB66716
	Thallium	2.4	+/-20.0	U	2.4	20.0	P	07/05/2013	17:50	LB66716
	Vanadium	6.1	+/-20.0	U	6.1	20.0	P	07/05/2013	17:50	LB66716
	Zinc	6.5	+/-20.0	U	6.5	20.0	P	07/05/2013	17:50	LB66716
CCB09	Aluminum	6.5	+/-50.0	U	6.5	50.0	P	07/05/2013	18:46	LB66716
	Antimony	8.0	+/-25.0	U	8.0	25.0	P	07/05/2013	18:46	LB66716
	Arsenic	4.2	+/-10.0	U	4.2	10.0	P	07/05/2013	18:46	LB66716
	Barium	4.0	+/-50.0	U	4.0	50.0	P	07/05/2013	18:46	LB66716
	Beryllium	0.7	+/-3.0	U	0.7	3.0	P	07/05/2013	18:46	LB66716
	Cadmium	0.5	+/-3.0	U	0.5	3.0	P	07/05/2013	18:46	LB66716
	Calcium	31.8	+/-1000.0	U	31.8	1000.0	P	07/05/2013	18:46	LB66716
	Chromium	1.1	+/-5.0	U	1.1	5.0	P	07/05/2013	18:46	LB66716
	Cobalt	5.8	+/-15.0	U	5.8	15.0	P	07/05/2013	18:46	LB66716
	Copper	2.0	+/-10.0	U	2.0	10.0	P	07/05/2013	18:46	LB66716
	Iron	20.4	+/-50.0	U	20.4	50.0	P	07/05/2013	18:46	LB66716
	Lead	2.6	+/-6.0	U	2.6	6.0	P	07/05/2013	18:46	LB66716
	Magnesium	32.5	+/-1000.0	U	32.5	1000.0	P	07/05/2013	18:46	LB66716
	Manganese	1.7	+/-10.0	U	1.7	10.0	P	07/05/2013	18:46	LB66716
	Nickel	4.2	+/-20.0	U	4.2	20.0	P	07/05/2013	18:46	LB66716
	Potassium	38.8	+/-1000.0	U	38.8	1000.0	P	07/05/2013	18:46	LB66716
	Selenium	4.8	+/-10.0	U	4.8	10.0	P	07/05/2013	18:46	LB66716
	Silver	1.5	+/-5.0	U	1.5	5.0	P	07/05/2013	18:46	LB66716
	Sodium	62.6	+/-1000.0	J	13.9	1000.0	P	07/05/2013	18:46	LB66716
	Thallium	2.4	+/-20.0	U	2.4	20.0	P	07/05/2013	18:46	LB66716
	Vanadium	6.1	+/-20.0	U	6.1	20.0	P	07/05/2013	18:46	LB66716
	Zinc	6.5	+/-20.0	U	6.5	20.0	P	07/05/2013	18:46	LB66716
CCB10	Aluminum	6.5	+/-50.0	U	6.5	50.0	P	07/05/2013	19:27	LB66716
	Antimony	8.0	+/-25.0	U	8.0	25.0	P	07/05/2013	19:27	LB66716
	Arsenic	4.2	+/-10.0	U	4.2	10.0	P	07/05/2013	19:27	LB66716
	Barium	4.0	+/-50.0	U	4.0	50.0	P	07/05/2013	19:27	LB66716
	Beryllium	0.7	+/-3.0	U	0.7	3.0	P	07/05/2013	19:27	LB66716
	Cadmium	0.5	+/-3.0	U	0.5	3.0	P	07/05/2013	19:27	LB66716
	Calcium	56.5	+/-1000.0	J	31.8	1000.0	P	07/05/2013	19:27	LB66716
	Chromium	1.1	+/-5.0	U	1.1	5.0	P	07/05/2013	19:27	LB66716

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Impact Environmental **SDG No.:** E2710

Contract: IMPA01 **Lab Code:** CHEM **Case No.:** E2710 **SAS No.:** E2710

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	MDL	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB10	Cobalt	5.8	+/-15.0	U	5.8	15.0	P	07/05/2013	19:27	LB66716
	Copper	2.0	+/-10.0	U	2.0	10.0	P	07/05/2013	19:27	LB66716
	Iron	20.4	+/-50.0	U	20.4	50.0	P	07/05/2013	19:27	LB66716
	Lead	2.6	+/-6.0	U	2.6	6.0	P	07/05/2013	19:27	LB66716
	Magnesium	46.9	+/-1000.0	J	32.5	1000.0	P	07/05/2013	19:27	LB66716
	Manganese	1.7	+/-10.0	U	1.7	10.0	P	07/05/2013	19:27	LB66716
	Nickel	4.2	+/-20.0	U	4.2	20.0	P	07/05/2013	19:27	LB66716
	Potassium	38.8	+/-1000.0	U	38.8	1000.0	P	07/05/2013	19:27	LB66716
	Selenium	4.8	+/-10.0	U	4.8	10.0	P	07/05/2013	19:27	LB66716
	Silver	1.5	+/-5.0	U	1.5	5.0	P	07/05/2013	19:27	LB66716
	Sodium	81.8	+/-1000.0	J	13.9	1000.0	P	07/05/2013	19:27	LB66716
	Thallium	2.4	+/-20.0	U	2.4	20.0	P	07/05/2013	19:27	LB66716
	Vanadium	6.1	+/-20.0	U	6.1	20.0	P	07/05/2013	19:27	LB66716
	Zinc	7.8	+/-20.0	J	6.5	20.0	P	07/05/2013	19:27	LB66716
CCB11	Aluminum	6.5	+/-50.0	U	6.5	50.0	P	07/05/2013	20:09	LB66716
	Antimony	8.0	+/-25.0	U	8.0	25.0	P	07/05/2013	20:09	LB66716
	Arsenic	4.2	+/-10.0	U	4.2	10.0	P	07/05/2013	20:09	LB66716
	Barium	6.1	+/-50.0	J	4.0	50.0	P	07/05/2013	20:09	LB66716
	Beryllium	0.7	+/-3.0	U	0.7	3.0	P	07/05/2013	20:09	LB66716
	Cadmium	0.5	+/-3.0	U	0.5	3.0	P	07/05/2013	20:09	LB66716
	Calcium	74.0	+/-1000.0	J	31.8	1000.0	P	07/05/2013	20:09	LB66716
	Chromium	1.1	+/-5.0	U	1.1	5.0	P	07/05/2013	20:09	LB66716
	Cobalt	5.8	+/-15.0	U	5.8	15.0	P	07/05/2013	20:09	LB66716
	Copper	2.0	+/-10.0	U	2.0	10.0	P	07/05/2013	20:09	LB66716
	Iron	22.1	+/-50.0	J	20.4	50.0	P	07/05/2013	20:09	LB66716
	Lead	2.6	+/-6.0	U	2.6	6.0	P	07/05/2013	20:09	LB66716
	Magnesium	68.9	+/-1000.0	J	32.5	1000.0	P	07/05/2013	20:09	LB66716
	Manganese	1.7	+/-10.0	U	1.7	10.0	P	07/05/2013	20:09	LB66716
	Nickel	4.2	+/-20.0	U	4.2	20.0	P	07/05/2013	20:09	LB66716
	Potassium	38.8	+/-1000.0	U	38.8	1000.0	P	07/05/2013	20:09	LB66716
	Selenium	4.8	+/-10.0	U	4.8	10.0	P	07/05/2013	20:09	LB66716
	Silver	1.5	+/-5.0	U	1.5	5.0	P	07/05/2013	20:09	LB66716
	Sodium	94.2	+/-1000.0	J	13.9	1000.0	P	07/05/2013	20:09	LB66716
	Thallium	2.4	+/-20.0	U	2.4	20.0	P	07/05/2013	20:09	LB66716
	Vanadium	6.1	+/-20.0	U	6.1	20.0	P	07/05/2013	20:09	LB66716
	Zinc	6.5	+/-20.0	U	6.5	20.0	P	07/05/2013	20:09	LB66716
CCB12	Aluminum	6.5	+/-50.0	U	6.5	50.0	P	07/05/2013	20:43	LB66716
	Antimony	8.0	+/-25.0	U	8.0	25.0	P	07/05/2013	20:43	LB66716
	Arsenic	4.2	+/-10.0	U	4.2	10.0	P	07/05/2013	20:43	LB66716
	Barium	5.0	+/-50.0	J	4.0	50.0	P	07/05/2013	20:43	LB66716

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Impact Environmental **SDG No.:** E2710

Contract: IMPA01 **Lab Code:** CHEM **Case No.:** E2710 **SAS No.:** E2710

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	MDL	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB12	Beryllium	0.7	+/-3.0	U	0.7	3.0	P	07/05/2013	20:43	LB66716
	Cadmium	0.5	+/-3.0	U	0.5	3.0	P	07/05/2013	20:43	LB66716
	Calcium	31.8	+/-1000.0	U	31.8	1000.0	P	07/05/2013	20:43	LB66716
	Chromium	1.1	+/-5.0	U	1.1	5.0	P	07/05/2013	20:43	LB66716
	Cobalt	5.8	+/-15.0	U	5.8	15.0	P	07/05/2013	20:43	LB66716
	Copper	2.0	+/-10.0	U	2.0	10.0	P	07/05/2013	20:43	LB66716
	Iron	20.4	+/-50.0	U	20.4	50.0	P	07/05/2013	20:43	LB66716
	Lead	2.6	+/-6.0	U	2.6	6.0	P	07/05/2013	20:43	LB66716
	Magnesium	32.5	+/-1000.0	U	32.5	1000.0	P	07/05/2013	20:43	LB66716
	Manganese	1.7	+/-10.0	U	1.7	10.0	P	07/05/2013	20:43	LB66716
	Nickel	4.2	+/-20.0	U	4.2	20.0	P	07/05/2013	20:43	LB66716
	Potassium	38.8	+/-1000.0	U	38.8	1000.0	P	07/05/2013	20:43	LB66716
	Selenium	4.8	+/-10.0	U	4.8	10.0	P	07/05/2013	20:43	LB66716
	Silver	1.5	+/-5.0	U	1.5	5.0	P	07/05/2013	20:43	LB66716
	Sodium	68.8	+/-1000.0	J	13.9	1000.0	P	07/05/2013	20:43	LB66716
	Thallium	2.4	+/-20.0	U	2.4	20.0	P	07/05/2013	20:43	LB66716
	Vanadium	6.1	+/-20.0	U	6.1	20.0	P	07/05/2013	20:43	LB66716
	Zinc	6.5	+/-20.0	U	6.5	20.0	P	07/05/2013	20:43	LB66716
CCB13	Aluminum	6.5	+/-50.0	U	6.5	50.0	P	07/05/2013	21:20	LB66716
	Antimony	8.0	+/-25.0	U	8.0	25.0	P	07/05/2013	21:20	LB66716
	Arsenic	4.2	+/-10.0	U	4.2	10.0	P	07/05/2013	21:20	LB66716
	Barium	4.4	+/-50.0	J	4.0	50.0	P	07/05/2013	21:20	LB66716
	Beryllium	0.7	+/-3.0	U	0.7	3.0	P	07/05/2013	21:20	LB66716
	Cadmium	0.5	+/-3.0	U	0.5	3.0	P	07/05/2013	21:20	LB66716
	Calcium	31.8	+/-1000.0	U	31.8	1000.0	P	07/05/2013	21:20	LB66716
	Chromium	4.2	+/-5.0	J	1.1	5.0	P	07/05/2013	21:20	LB66716
	Cobalt	5.8	+/-15.0	U	5.8	15.0	P	07/05/2013	21:20	LB66716
	Copper	2.0	+/-10.0	U	2.0	10.0	P	07/05/2013	21:20	LB66716
	Iron	41.7	+/-50.0	J	20.4	50.0	P	07/05/2013	21:20	LB66716
	Lead	2.6	+/-6.0	U	2.6	6.0	P	07/05/2013	21:20	LB66716
	Magnesium	32.5	+/-1000.0	U	32.5	1000.0	P	07/05/2013	21:20	LB66716
	Manganese	1.7	+/-10.0	U	1.7	10.0	P	07/05/2013	21:20	LB66716
	Nickel	4.2	+/-20.0	U	4.2	20.0	P	07/05/2013	21:20	LB66716
	Potassium	38.8	+/-1000.0	U	38.8	1000.0	P	07/05/2013	21:20	LB66716
	Selenium	4.8	+/-10.0	U	4.8	10.0	P	07/05/2013	21:20	LB66716
	Silver	1.5	+/-5.0	U	1.5	5.0	P	07/05/2013	21:20	LB66716
	Sodium	59.7	+/-1000.0	J	13.9	1000.0	P	07/05/2013	21:20	LB66716
	Thallium	2.4	+/-20.0	U	2.4	20.0	P	07/05/2013	21:20	LB66716
	Vanadium	6.1	+/-20.0	U	6.1	20.0	P	07/05/2013	21:20	LB66716
	Zinc	6.5	+/-20.0	U	6.5	20.0	P	07/05/2013	21:20	LB66716

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Impact Environmental **SDG No.:** E2710

Contract: IMPA01 **Lab Code:** CHEM **Case No.:** E2710 **SAS No.:** E2710

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	MDL	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Aluminum	38.1	+/-50.0	J	6.5	50.0	P	07/15/2013	14:41	LB66836A
	Antimony	8.0	+/-25.0	U	8.0	25.0	P	07/15/2013	14:41	LB66836A
	Arsenic	4.2	+/-10.0	U	4.2	10.0	P	07/15/2013	14:41	LB66836A
	Barium	4.0	+/-50.0	U	4.0	50.0	P	07/15/2013	14:41	LB66836A
	Beryllium	0.7	+/-3.0	U	0.7	3.0	P	07/15/2013	14:41	LB66836A
	Cadmium	0.5	+/-3.0	U	0.5	3.0	P	07/15/2013	14:41	LB66836A
	Calcium	31.8	+/-1000.0	U	31.8	1000.0	P	07/15/2013	14:41	LB66836A
	Chromium	1.1	+/-5.0	U	1.1	5.0	P	07/15/2013	14:41	LB66836A
	Cobalt	5.8	+/-15.0	U	5.8	15.0	P	07/15/2013	14:41	LB66836A
	Copper	2.0	+/-10.0	U	2.0	10.0	P	07/15/2013	14:41	LB66836A
	Iron	20.4	+/-50.0	U	20.4	50.0	P	07/15/2013	14:41	LB66836A
	Lead	2.6	+/-6.0	U	2.6	6.0	P	07/15/2013	14:41	LB66836A
	Magnesium	54.4	+/-1000.0	J	32.5	1000.0	P	07/15/2013	14:41	LB66836A
	Manganese	1.7	+/-10.0	U	1.7	10.0	P	07/15/2013	14:41	LB66836A
	Nickel	4.2	+/-20.0	U	4.2	20.0	P	07/15/2013	14:41	LB66836A
	Potassium	94.6	+/-1000.0	J	38.8	1000.0	P	07/15/2013	14:41	LB66836A
	Selenium	4.8	+/-10.0	U	4.8	10.0	P	07/15/2013	14:41	LB66836A
	Silver	1.5	+/-5.0	U	1.5	5.0	P	07/15/2013	14:41	LB66836A
	Sodium	42.5	+/-1000.0	J	13.9	1000.0	P	07/15/2013	14:41	LB66836A
	Thallium	2.4	+/-20.0	U	2.4	20.0	P	07/15/2013	14:41	LB66836A
	Vanadium	6.1	+/-20.0	U	6.1	20.0	P	07/15/2013	14:41	LB66836A
	Zinc	6.5	+/-20.0	U	6.5	20.0	P	07/15/2013	14:41	LB66836A
CCB01	Aluminum	6.5	+/-50.0	U	6.5	50.0	P	07/15/2013	15:11	LB66836A
	Antimony	8.0	+/-25.0	U	8.0	25.0	P	07/15/2013	15:11	LB66836A
	Arsenic	4.2	+/-10.0	U	4.2	10.0	P	07/15/2013	15:11	LB66836A
	Barium	4.3	+/-50.0	J	4.0	50.0	P	07/15/2013	15:11	LB66836A
	Beryllium	0.7	+/-3.0	U	0.7	3.0	P	07/15/2013	15:11	LB66836A
	Cadmium	0.5	+/-3.0	U	0.5	3.0	P	07/15/2013	15:11	LB66836A
	Calcium	31.8	+/-1000.0	U	31.8	1000.0	P	07/15/2013	15:11	LB66836A
	Chromium	1.1	+/-5.0	U	1.1	5.0	P	07/15/2013	15:11	LB66836A
	Cobalt	5.8	+/-15.0	U	5.8	15.0	P	07/15/2013	15:11	LB66836A
	Copper	2.0	+/-10.0	U	2.0	10.0	P	07/15/2013	15:11	LB66836A
	Iron	20.4	+/-50.0	U	20.4	50.0	P	07/15/2013	15:11	LB66836A
	Lead	2.6	+/-6.0	U	2.6	6.0	P	07/15/2013	15:11	LB66836A
	Magnesium	60.5	+/-1000.0	J	32.5	1000.0	P	07/15/2013	15:11	LB66836A
	Manganese	1.7	+/-10.0	U	1.7	10.0	P	07/15/2013	15:11	LB66836A
	Nickel	4.2	+/-20.0	U	4.2	20.0	P	07/15/2013	15:11	LB66836A
	Potassium	38.8	+/-1000.0	U	38.8	1000.0	P	07/15/2013	15:11	LB66836A
	Selenium	4.8	+/-10.0	U	4.8	10.0	P	07/15/2013	15:11	LB66836A
	Silver	1.5	+/-5.0	U	1.5	5.0	P	07/15/2013	15:11	LB66836A

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Impact Environmental **SDG No.:** E2710

Contract: IMPA01 **Lab Code:** CHEM **Case No.:** E2710 **SAS No.:** E2710

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	MDL	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB01	Sodium	26.7	+/-1000.0	J	13.9	1000.0	P	07/15/2013	15:11	LB66836A
	Thallium	3.2	+/-20.0	J	2.4	20.0	P	07/15/2013	15:11	LB66836A
	Vanadium	6.1	+/-20.0	U	6.1	20.0	P	07/15/2013	15:11	LB66836A
	Zinc	6.5	+/-20.0	U	6.5	20.0	P	07/15/2013	15:11	LB66836A
CCB02	Aluminum	20.3	+/-50.0	J	6.5	50.0	P	07/15/2013	15:55	LB66836A
	Antimony	8.0	+/-25.0	U	8.0	25.0	P	07/15/2013	15:55	LB66836A
	Arsenic	4.2	+/-10.0	U	4.2	10.0	P	07/15/2013	15:55	LB66836A
	Barium	4.0	+/-50.0	U	4.0	50.0	P	07/15/2013	15:55	LB66836A
	Beryllium	0.7	+/-3.0	U	0.7	3.0	P	07/15/2013	15:55	LB66836A
	Cadmium	0.5	+/-3.0	U	0.5	3.0	P	07/15/2013	15:55	LB66836A
	Calcium	31.8	+/-1000.0	U	31.8	1000.0	P	07/15/2013	15:55	LB66836A
	Chromium	1.1	+/-5.0	U	1.1	5.0	P	07/15/2013	15:55	LB66836A
	Cobalt	5.8	+/-15.0	U	5.8	15.0	P	07/15/2013	15:55	LB66836A
	Copper	2.0	+/-10.0	U	2.0	10.0	P	07/15/2013	15:55	LB66836A
	Iron	20.4	+/-50.0	U	20.4	50.0	P	07/15/2013	15:55	LB66836A
	Lead	2.6	+/-6.0	U	2.6	6.0	P	07/15/2013	15:55	LB66836A
	Magnesium	44.1	+/-1000.0	J	32.5	1000.0	P	07/15/2013	15:55	LB66836A
	Manganese	1.7	+/-10.0	U	1.7	10.0	P	07/15/2013	15:55	LB66836A
	Nickel	4.2	+/-20.0	U	4.2	20.0	P	07/15/2013	15:55	LB66836A
	Potassium	240.8	+/-1000.0	J	38.8	1000.0	P	07/15/2013	15:55	LB66836A
	Selenium	4.8	+/-10.0	U	4.8	10.0	P	07/15/2013	15:55	LB66836A
	Silver	1.5	+/-5.0	U	1.5	5.0	P	07/15/2013	15:55	LB66836A
	Sodium	136.4	+/-1000.0	J	13.9	1000.0	P	07/15/2013	15:55	LB66836A
	Thallium	2.4	+/-20.0	U	2.4	20.0	P	07/15/2013	15:55	LB66836A
	Vanadium	6.1	+/-20.0	U	6.1	20.0	P	07/15/2013	15:55	LB66836A
	Zinc	6.5	+/-20.0	U	6.5	20.0	P	07/15/2013	15:55	LB66836A
CCB03	Aluminum	6.5	+/-50.0	U	6.5	50.0	P	07/15/2013	16:36	LB66836A
	Antimony	8.0	+/-25.0	U	8.0	25.0	P	07/15/2013	16:36	LB66836A
	Arsenic	4.2	+/-10.0	U	4.2	10.0	P	07/15/2013	16:36	LB66836A
	Barium	4.0	+/-50.0	U	4.0	50.0	P	07/15/2013	16:36	LB66836A
	Beryllium	0.7	+/-3.0	U	0.7	3.0	P	07/15/2013	16:36	LB66836A
	Cadmium	0.5	+/-3.0	U	0.5	3.0	P	07/15/2013	16:36	LB66836A
	Calcium	31.8	+/-1000.0	U	31.8	1000.0	P	07/15/2013	16:36	LB66836A
	Chromium	1.1	+/-5.0	U	1.1	5.0	P	07/15/2013	16:36	LB66836A
	Cobalt	5.8	+/-15.0	U	5.8	15.0	P	07/15/2013	16:36	LB66836A
	Copper	2.0	+/-10.0	U	2.0	10.0	P	07/15/2013	16:36	LB66836A
	Iron	20.4	+/-50.0	U	20.4	50.0	P	07/15/2013	16:36	LB66836A
	Lead	2.6	+/-6.0	U	2.6	6.0	P	07/15/2013	16:36	LB66836A
	Magnesium	77.2	+/-1000.0	J	32.5	1000.0	P	07/15/2013	16:36	LB66836A
	Manganese	1.7	+/-10.0	U	1.7	10.0	P	07/15/2013	16:36	LB66836A

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Impact Environmental **SDG No.:** E2710

Contract: IMPA01 **Lab Code:** CHEM **Case No.:** E2710 **SAS No.:** E2710

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	MDL	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB03	Nickel	4.2	+/-20.0	U	4.2	20.0	P	07/15/2013	16:36	LB66836A
	Potassium	131.6	+/-1000.0	J	38.8	1000.0	P	07/15/2013	16:36	LB66836A
	Selenium	4.8	+/-10.0	U	4.8	10.0	P	07/15/2013	16:36	LB66836A
	Silver	1.5	+/-5.0	U	1.5	5.0	P	07/15/2013	16:36	LB66836A
	Sodium	143.9	+/-1000.0	J	13.9	1000.0	P	07/15/2013	16:36	LB66836A
	Thallium	2.4	+/-20.0	U	2.4	20.0	P	07/15/2013	16:36	LB66836A
	Vanadium	6.1	+/-20.0	U	6.1	20.0	P	07/15/2013	16:36	LB66836A
	Zinc	6.5	+/-20.0	U	6.5	20.0	P	07/15/2013	16:36	LB66836A
CCB04	Aluminum	6.5	+/-50.0	U	6.5	50.0	P	07/15/2013	17:17	LB66836A
	Antimony	8.0	+/-25.0	U	8.0	25.0	P	07/15/2013	17:17	LB66836A
	Arsenic	4.2	+/-10.0	U	4.2	10.0	P	07/15/2013	17:17	LB66836A
	Barium	4.0	+/-50.0	U	4.0	50.0	P	07/15/2013	17:17	LB66836A
	Beryllium	0.7	+/-3.0	U	0.7	3.0	P	07/15/2013	17:17	LB66836A
	Cadmium	0.5	+/-3.0	U	0.5	3.0	P	07/15/2013	17:17	LB66836A
	Calcium	31.8	+/-1000.0	U	31.8	1000.0	P	07/15/2013	17:17	LB66836A
	Chromium	1.1	+/-5.0	U	1.1	5.0	P	07/15/2013	17:17	LB66836A
	Cobalt	5.8	+/-15.0	U	5.8	15.0	P	07/15/2013	17:17	LB66836A
	Copper	2.0	+/-10.0	U	2.0	10.0	P	07/15/2013	17:17	LB66836A
	Iron	20.4	+/-50.0	U	20.4	50.0	P	07/15/2013	17:17	LB66836A
	Lead	2.6	+/-6.0	U	2.6	6.0	P	07/15/2013	17:17	LB66836A
	Magnesium	61.0	+/-1000.0	J	32.5	1000.0	P	07/15/2013	17:17	LB66836A
	Manganese	1.7	+/-10.0	U	1.7	10.0	P	07/15/2013	17:17	LB66836A
	Nickel	4.2	+/-20.0	U	4.2	20.0	P	07/15/2013	17:17	LB66836A
	Potassium	38.8	+/-1000.0	U	38.8	1000.0	P	07/15/2013	17:17	LB66836A
	Selenium	4.8	+/-10.0	U	4.8	10.0	P	07/15/2013	17:17	LB66836A
	Silver	1.5	+/-5.0	U	1.5	5.0	P	07/15/2013	17:17	LB66836A
	Sodium	156.0	+/-1000.0	J	13.9	1000.0	P	07/15/2013	17:17	LB66836A
	Thallium	2.4	+/-20.0	U	2.4	20.0	P	07/15/2013	17:17	LB66836A
	Vanadium	6.1	+/-20.0	U	6.1	20.0	P	07/15/2013	17:17	LB66836A
	Zinc	6.5	+/-20.0	U	6.5	20.0	P	07/15/2013	17:17	LB66836A
CCB05	Aluminum	6.5	+/-50.0	U	6.5	50.0	P	07/15/2013	17:57	LB66836A
	Antimony	8.0	+/-25.0	U	8.0	25.0	P	07/15/2013	17:57	LB66836A
	Arsenic	4.2	+/-10.0	U	4.2	10.0	P	07/15/2013	17:57	LB66836A
	Barium	4.0	+/-50.0	U	4.0	50.0	P	07/15/2013	17:57	LB66836A
	Beryllium	0.7	+/-3.0	U	0.7	3.0	P	07/15/2013	17:57	LB66836A
	Cadmium	0.5	+/-3.0	U	0.5	3.0	P	07/15/2013	17:57	LB66836A
	Calcium	31.8	+/-1000.0	U	31.8	1000.0	P	07/15/2013	17:57	LB66836A
	Chromium	1.1	+/-5.0	U	1.1	5.0	P	07/15/2013	17:57	LB66836A
	Cobalt	5.8	+/-15.0	U	5.8	15.0	P	07/15/2013	17:57	LB66836A
	Copper	2.0	+/-10.0	U	2.0	10.0	P	07/15/2013	17:57	LB66836A

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Impact Environmental **SDG No.:** E2710

Contract: IMPA01 **Lab Code:** CHEM **Case No.:** E2710 **SAS No.:** E2710

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	MDL	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB05	Iron	20.4	+/-50.0	U	20.4	50.0	P	07/15/2013	17:57	LB66836A
	Lead	2.6	+/-6.0	U	2.6	6.0	P	07/15/2013	17:57	LB66836A
	Magnesium	32.5	+/-1000.0	U	32.5	1000.0	P	07/15/2013	17:57	LB66836A
	Manganese	1.7	+/-10.0	U	1.7	10.0	P	07/15/2013	17:57	LB66836A
	Nickel	4.2	+/-20.0	U	4.2	20.0	P	07/15/2013	17:57	LB66836A
	Potassium	38.8	+/-1000.0	U	38.8	1000.0	P	07/15/2013	17:57	LB66836A
	Selenium	4.8	+/-10.0	U	4.8	10.0	P	07/15/2013	17:57	LB66836A
	Silver	1.5	+/-5.0	U	1.5	5.0	P	07/15/2013	17:57	LB66836A
	Sodium	122.7	+/-1000.0	J	13.9	1000.0	P	07/15/2013	17:57	LB66836A
	Thallium	3.4	+/-20.0	J	2.4	20.0	P	07/15/2013	17:57	LB66836A
	Vanadium	6.1	+/-20.0	U	6.1	20.0	P	07/15/2013	17:57	LB66836A
	Zinc	6.5	+/-20.0	U	6.5	20.0	P	07/15/2013	17:57	LB66836A
CCB06	Aluminum	6.5	+/-50.0	U	6.5	50.0	P	07/15/2013	18:38	LB66836A
	Antimony	8.0	+/-25.0	U	8.0	25.0	P	07/15/2013	18:38	LB66836A
	Arsenic	4.2	+/-10.0	U	4.2	10.0	P	07/15/2013	18:38	LB66836A
	Barium	4.0	+/-50.0	U	4.0	50.0	P	07/15/2013	18:38	LB66836A
	Beryllium	0.7	+/-3.0	U	0.7	3.0	P	07/15/2013	18:38	LB66836A
	Cadmium	0.5	+/-3.0	U	0.5	3.0	P	07/15/2013	18:38	LB66836A
	Calcium	31.8	+/-1000.0	U	31.8	1000.0	P	07/15/2013	18:38	LB66836A
	Chromium	1.1	+/-5.0	U	1.1	5.0	P	07/15/2013	18:38	LB66836A
	Cobalt	5.8	+/-15.0	U	5.8	15.0	P	07/15/2013	18:38	LB66836A
	Copper	2.0	+/-10.0	U	2.0	10.0	P	07/15/2013	18:38	LB66836A
	Iron	20.4	+/-50.0	U	20.4	50.0	P	07/15/2013	18:38	LB66836A
	Lead	2.6	+/-6.0	U	2.6	6.0	P	07/15/2013	18:38	LB66836A
	Magnesium	32.5	+/-1000.0	U	32.5	1000.0	P	07/15/2013	18:38	LB66836A
	Manganese	1.7	+/-10.0	U	1.7	10.0	P	07/15/2013	18:38	LB66836A
	Nickel	4.2	+/-20.0	U	4.2	20.0	P	07/15/2013	18:38	LB66836A
	Potassium	39.3	+/-1000.0	J	38.8	1000.0	P	07/15/2013	18:38	LB66836A
	Selenium	4.8	+/-10.0	U	4.8	10.0	P	07/15/2013	18:38	LB66836A
	Silver	1.5	+/-5.0	U	1.5	5.0	P	07/15/2013	18:38	LB66836A
	Sodium	273.5	+/-1000.0	J	13.9	1000.0	P	07/15/2013	18:38	LB66836A
	Thallium	3.5	+/-20.0	J	2.4	20.0	P	07/15/2013	18:38	LB66836A
	Vanadium	6.1	+/-20.0	U	6.1	20.0	P	07/15/2013	18:38	LB66836A
	Zinc	6.5	+/-20.0	U	6.5	20.0	P	07/15/2013	18:38	LB66836A
CCB07	Aluminum	14.2	+/-50.0	J	6.5	50.0	P	07/15/2013	19:19	LB66836A
	Antimony	8.0	+/-25.0	U	8.0	25.0	P	07/15/2013	19:19	LB66836A
	Arsenic	4.2	+/-10.0	U	4.2	10.0	P	07/15/2013	19:19	LB66836A
	Barium	4.0	+/-50.0	U	4.0	50.0	P	07/15/2013	19:19	LB66836A
	Beryllium	0.7	+/-3.0	U	0.7	3.0	P	07/15/2013	19:19	LB66836A
	Cadmium	0.5	+/-3.0	U	0.5	3.0	P	07/15/2013	19:19	LB66836A

Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Impact Environmental **SDG No.:** E2710

Contract: IMPA01 **Lab Code:** CHEM **Case No.:** E2710 **SAS No.:** E2710

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	MDL	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB07	Calcium	31.8	+/-1000.0	U	31.8	1000.0	P	07/15/2013	19:19	LB66836A
	Chromium	1.1	+/-5.0	U	1.1	5.0	P	07/15/2013	19:19	LB66836A
	Cobalt	5.8	+/-15.0	U	5.8	15.0	P	07/15/2013	19:19	LB66836A
	Copper	2.0	+/-10.0	U	2.0	10.0	P	07/15/2013	19:19	LB66836A
	Iron	20.4	+/-50.0	U	20.4	50.0	P	07/15/2013	19:19	LB66836A
	Lead	2.6	+/-6.0	U	2.6	6.0	P	07/15/2013	19:19	LB66836A
	Magnesium	61.8	+/-1000.0	J	32.5	1000.0	P	07/15/2013	19:19	LB66836A
	Manganese	1.7	+/-10.0	U	1.7	10.0	P	07/15/2013	19:19	LB66836A
	Nickel	4.2	+/-20.0	U	4.2	20.0	P	07/15/2013	19:19	LB66836A
	Potassium	171.8	+/-1000.0	J	38.8	1000.0	P	07/15/2013	19:19	LB66836A
	Selenium	4.8	+/-10.0	U	4.8	10.0	P	07/15/2013	19:19	LB66836A
	Silver	1.5	+/-5.0	U	1.5	5.0	P	07/15/2013	19:19	LB66836A
	Sodium	268.7	+/-1000.0	J	13.9	1000.0	P	07/15/2013	19:19	LB66836A
	Thallium	3.6	+/-20.0	J	2.4	20.0	P	07/15/2013	19:19	LB66836A
	Vanadium	6.1	+/-20.0	U	6.1	20.0	P	07/15/2013	19:19	LB66836A
	Zinc	6.5	+/-20.0	U	6.5	20.0	P	07/15/2013	19:19	LB66836A
CCB08	Aluminum	24.6	+/-50.0	J	6.5	50.0	P	07/15/2013	19:59	LB66836A
	Antimony	8.0	+/-25.0	U	8.0	25.0	P	07/15/2013	19:59	LB66836A
	Arsenic	4.2	+/-10.0	U	4.2	10.0	P	07/15/2013	19:59	LB66836A
	Barium	4.0	+/-50.0	U	4.0	50.0	P	07/15/2013	19:59	LB66836A
	Beryllium	0.7	+/-3.0	U	0.7	3.0	P	07/15/2013	19:59	LB66836A
	Cadmium	0.5	+/-3.0	U	0.5	3.0	P	07/15/2013	19:59	LB66836A
	Calcium	31.8	+/-1000.0	U	31.8	1000.0	P	07/15/2013	19:59	LB66836A
	Chromium	1.1	+/-5.0	U	1.1	5.0	P	07/15/2013	19:59	LB66836A
	Cobalt	5.8	+/-15.0	U	5.8	15.0	P	07/15/2013	19:59	LB66836A
	Copper	2.0	+/-10.0	U	2.0	10.0	P	07/15/2013	19:59	LB66836A
	Iron	20.4	+/-50.0	U	20.4	50.0	P	07/15/2013	19:59	LB66836A
	Lead	2.6	+/-6.0	U	2.6	6.0	P	07/15/2013	19:59	LB66836A
	Magnesium	32.5	+/-1000.0	U	32.5	1000.0	P	07/15/2013	19:59	LB66836A
	Manganese	1.7	+/-10.0	U	1.7	10.0	P	07/15/2013	19:59	LB66836A
	Nickel	4.2	+/-20.0	U	4.2	20.0	P	07/15/2013	19:59	LB66836A
	Potassium	137.2	+/-1000.0	J	38.8	1000.0	P	07/15/2013	19:59	LB66836A
	Selenium	4.8	+/-10.0	U	4.8	10.0	P	07/15/2013	19:59	LB66836A
	Silver	1.5	+/-5.0	U	1.5	5.0	P	07/15/2013	19:59	LB66836A
	Sodium	185.1	+/-1000.0	J	13.9	1000.0	P	07/15/2013	19:59	LB66836A
	Thallium	2.4	+/-20.0	U	2.4	20.0	P	07/15/2013	19:59	LB66836A
	Vanadium	6.1	+/-20.0	U	6.1	20.0	P	07/15/2013	19:59	LB66836A
	Zinc	6.5	+/-20.0	U	6.5	20.0	P	07/15/2013	19:59	LB66836A
CCB09	Aluminum	6.5	+/-50.0	U	6.5	50.0	P	07/15/2013	20:40	LB66836A
	Antimony	8.0	+/-25.0	U	8.0	25.0	P	07/15/2013	20:40	LB66836A

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Impact Environmental **SDG No.:** E2710

Contract: IMPA01 **Lab Code:** CHEM **Case No.:** E2710 **SAS No.:** E2710

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	MDL	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB09	Arsenic	4.2	+/-10.0	U	4.2	10.0	P	07/15/2013	20:40	LB66836A
	Barium	4.0	+/-50.0	U	4.0	50.0	P	07/15/2013	20:40	LB66836A
	Beryllium	0.7	+/-3.0	U	0.7	3.0	P	07/15/2013	20:40	LB66836A
	Cadmium	0.5	+/-3.0	U	0.5	3.0	P	07/15/2013	20:40	LB66836A
	Calcium	48.4	+/-1000.0	J	31.8	1000.0	P	07/15/2013	20:40	LB66836A
	Chromium	1.1	+/-5.0	U	1.1	5.0	P	07/15/2013	20:40	LB66836A
	Cobalt	5.8	+/-15.0	U	5.8	15.0	P	07/15/2013	20:40	LB66836A
	Copper	2.0	+/-10.0	U	2.0	10.0	P	07/15/2013	20:40	LB66836A
	Iron	20.4	+/-50.0	U	20.4	50.0	P	07/15/2013	20:40	LB66836A
	Lead	2.6	+/-6.0	U	2.6	6.0	P	07/15/2013	20:40	LB66836A
	Magnesium	49.2	+/-1000.0	J	32.5	1000.0	P	07/15/2013	20:40	LB66836A
	Manganese	1.7	+/-10.0	U	1.7	10.0	P	07/15/2013	20:40	LB66836A
	Nickel	4.2	+/-20.0	U	4.2	20.0	P	07/15/2013	20:40	LB66836A
	Potassium	41.7	+/-1000.0	J	38.8	1000.0	P	07/15/2013	20:40	LB66836A
	Selenium	4.8	+/-10.0	U	4.8	10.0	P	07/15/2013	20:40	LB66836A
	Silver	1.5	+/-5.0	U	1.5	5.0	P	07/15/2013	20:40	LB66836A
	Sodium	124.4	+/-1000.0	J	13.9	1000.0	P	07/15/2013	20:40	LB66836A
	Thallium	2.6	+/-20.0	J	2.4	20.0	P	07/15/2013	20:40	LB66836A
	Vanadium	6.1	+/-20.0	U	6.1	20.0	P	07/15/2013	20:40	LB66836A
	Zinc	6.5	+/-20.0	U	6.5	20.0	P	07/15/2013	20:40	LB66836A
CCB10	Aluminum	6.5	+/-50.0	U	6.5	50.0	P	07/15/2013	21:20	LB66836A
	Antimony	8.0	+/-25.0	U	8.0	25.0	P	07/15/2013	21:20	LB66836A
	Arsenic	4.2	+/-10.0	U	4.2	10.0	P	07/15/2013	21:20	LB66836A
	Barium	4.0	+/-50.0	U	4.0	50.0	P	07/15/2013	21:20	LB66836A
	Beryllium	0.7	+/-3.0	U	0.7	3.0	P	07/15/2013	21:20	LB66836A
	Cadmium	0.5	+/-3.0	U	0.5	3.0	P	07/15/2013	21:20	LB66836A
	Calcium	48.4	+/-1000.0	J	31.8	1000.0	P	07/15/2013	21:20	LB66836A
	Chromium	1.1	+/-5.0	U	1.1	5.0	P	07/15/2013	21:20	LB66836A
	Cobalt	5.8	+/-15.0	U	5.8	15.0	P	07/15/2013	21:20	LB66836A
	Copper	2.0	+/-10.0	U	2.0	10.0	P	07/15/2013	21:20	LB66836A
	Iron	20.4	+/-50.0	U	20.4	50.0	P	07/15/2013	21:20	LB66836A
	Lead	2.6	+/-6.0	U	2.6	6.0	P	07/15/2013	21:20	LB66836A
	Magnesium	109.5	+/-1000.0	J	32.5	1000.0	P	07/15/2013	21:20	LB66836A
	Manganese	1.7	+/-10.0	U	1.7	10.0	P	07/15/2013	21:20	LB66836A
	Nickel	4.2	+/-20.0	U	4.2	20.0	P	07/15/2013	21:20	LB66836A
	Potassium	38.8	+/-1000.0	U	38.8	1000.0	P	07/15/2013	21:20	LB66836A
	Selenium	4.8	+/-10.0	U	4.8	10.0	P	07/15/2013	21:20	LB66836A
	Silver	1.5	+/-5.0	U	1.5	5.0	P	07/15/2013	21:20	LB66836A
	Sodium	74.6	+/-1000.0	J	13.9	1000.0	P	07/15/2013	21:20	LB66836A
	Thallium	4.6	+/-20.0	J	2.4	20.0	P	07/15/2013	21:20	LB66836A

Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Impact Environmental **SDG No.:** E2710

Contract: IMPA01 **Lab Code:** CHEM **Case No.:** E2710 **SAS No.:** E2710

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	MDL	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB10	Vanadium	6.1	+/-20.0	U	6.1	20.0	P	07/15/2013	21:20	LB66836A
	Zinc	6.5	+/-20.0	U	6.5	20.0	P	07/15/2013	21:20	LB66836A
CCB11	Aluminum	17.7	+/-50.0	J	6.5	50.0	P	07/15/2013	22:08	LB66836A
	Antimony	8.0	+/-25.0	U	8.0	25.0	P	07/15/2013	22:08	LB66836A
	Arsenic	4.5	+/-10.0	J	4.2	10.0	P	07/15/2013	22:08	LB66836A
	Barium	4.0	+/-50.0	U	4.0	50.0	P	07/15/2013	22:08	LB66836A
	Beryllium	0.7	+/-3.0	U	0.7	3.0	P	07/15/2013	22:08	LB66836A
	Cadmium	0.5	+/-3.0	U	0.5	3.0	P	07/15/2013	22:08	LB66836A
	Calcium	37.9	+/-1000.0	J	31.8	1000.0	P	07/15/2013	22:08	LB66836A
	Chromium	1.1	+/-5.0	U	1.1	5.0	P	07/15/2013	22:08	LB66836A
	Cobalt	5.8	+/-15.0	U	5.8	15.0	P	07/15/2013	22:08	LB66836A
	Copper	2.0	+/-10.0	U	2.0	10.0	P	07/15/2013	22:08	LB66836A
	Iron	20.4	+/-50.0	U	20.4	50.0	P	07/15/2013	22:08	LB66836A
	Lead	2.6	+/-6.0	U	2.6	6.0	P	07/15/2013	22:08	LB66836A
	Magnesium	64.0	+/-1000.0	J	32.5	1000.0	P	07/15/2013	22:08	LB66836A
	Manganese	1.7	+/-10.0	U	1.7	10.0	P	07/15/2013	22:08	LB66836A
	Nickel	4.2	+/-20.0	U	4.2	20.0	P	07/15/2013	22:08	LB66836A
	Potassium	38.8	+/-1000.0	U	38.8	1000.0	P	07/15/2013	22:08	LB66836A
	Selenium	4.8	+/-10.0	U	4.8	10.0	P	07/15/2013	22:08	LB66836A
	Silver	1.5	+/-5.0	U	1.5	5.0	P	07/15/2013	22:08	LB66836A
	Sodium	102.3	+/-1000.0	J	13.9	1000.0	P	07/15/2013	22:08	LB66836A
	Thallium	3.6	+/-20.0	J	2.4	20.0	P	07/15/2013	22:08	LB66836A
	Vanadium	6.1	+/-20.0	U	6.1	20.0	P	07/15/2013	22:08	LB66836A
	Zinc	6.5	+/-20.0	U	6.5	20.0	P	07/15/2013	22:08	LB66836A
CCB12	Aluminum	18.7	+/-50.0	J	6.5	50.0	P	07/15/2013	22:31	LB66836A
	Antimony	8.0	+/-25.0	U	8.0	25.0	P	07/15/2013	22:31	LB66836A
	Arsenic	4.2	+/-10.0	U	4.2	10.0	P	07/15/2013	22:31	LB66836A
	Barium	4.0	+/-50.0	U	4.0	50.0	P	07/15/2013	22:31	LB66836A
	Beryllium	0.7	+/-3.0	U	0.7	3.0	P	07/15/2013	22:31	LB66836A
	Cadmium	0.5	+/-3.0	U	0.5	3.0	P	07/15/2013	22:31	LB66836A
	Calcium	38.1	+/-1000.0	J	31.8	1000.0	P	07/15/2013	22:31	LB66836A
	Chromium	1.1	+/-5.0	U	1.1	5.0	P	07/15/2013	22:31	LB66836A
	Cobalt	5.8	+/-15.0	U	5.8	15.0	P	07/15/2013	22:31	LB66836A
	Copper	2.0	+/-10.0	U	2.0	10.0	P	07/15/2013	22:31	LB66836A
	Iron	20.4	+/-50.0	U	20.4	50.0	P	07/15/2013	22:31	LB66836A
	Lead	2.6	+/-6.0	U	2.6	6.0	P	07/15/2013	22:31	LB66836A
	Magnesium	85.5	+/-1000.0	J	32.5	1000.0	P	07/15/2013	22:31	LB66836A
	Manganese	1.7	+/-10.0	U	1.7	10.0	P	07/15/2013	22:31	LB66836A
	Nickel	4.2	+/-20.0	U	4.2	20.0	P	07/15/2013	22:31	LB66836A
	Potassium	38.8	+/-1000.0	U	38.8	1000.0	P	07/15/2013	22:31	LB66836A

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Impact Environmental **SDG No.:** E2710

Contract: IMPA01 **Lab Code:** CHEM **Case No.:** E2710 **SAS No.:** E2710

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	MDL	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB12	Selenium	4.8	+/-10.0	U	4.8	10.0	P	07/15/2013	22:31	LB66836A
	Silver	1.5	+/-5.0	U	1.5	5.0	P	07/15/2013	22:31	LB66836A
	Sodium	104.4	+/-1000.0	J	13.9	1000.0	P	07/15/2013	22:31	LB66836A
	Thallium	3.0	+/-20.0	J	2.4	20.0	P	07/15/2013	22:31	LB66836A
	Vanadium	6.1	+/-20.0	U	6.1	20.0	P	07/15/2013	22:31	LB66836A
	Zinc	6.5	+/-20.0	U	6.5	20.0	P	07/15/2013	22:31	LB66836A

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Metals
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PREPARATION BLANK SUMMARY

Client: Impact Environmental **SDG No.:** E2710

Instrument: CV2

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	MDL ug/L	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB70621BL		**WATER**		**Batch Number:**	**PB70621**			**Prep Date:**	**06/28/2013**	
	Mercury	0.092	<0.200	U	0.092	0.200	CV	07/01/2013	12:53	LB66640
PB70601BL		**WATER**		**Batch Number:**	**PB70601**			**Prep Date:**	**06/28/2013**	
	Aluminum	3.250	<25.000	U	3.250	25.000	P	07/05/2013	13:16	LB66716
	Antimony	4.000	<12.500	U	4.000	12.500	P	07/05/2013	13:16	LB66716
	Arsenic	2.100	<5.000	U	2.100	5.000	P	07/05/2013	13:16	LB66716
	Barium	2.000	<25.000	U	2.000	25.000	P	07/05/2013	13:16	LB66716
	Beryllium	0.350	<1.500	U	0.350	1.500	P	07/05/2013	13:16	LB66716
	Cadmium	0.250	<1.500	U	0.250	1.500	P	07/05/2013	13:16	LB66716
	Calcium	15.900	<500.000	U	15.900	500.000	P	07/05/2013	13:16	LB66716
	Chromium	0.550	<2.500	U	0.550	2.500	P	07/05/2013	13:16	LB66716
	Cobalt	2.900	<7.500	U	2.900	7.500	P	07/05/2013	13:16	LB66716
	Copper	1.000	<5.000	U	1.000	5.000	P	07/05/2013	13:16	LB66716
	Iron	10.200	<25.000	U	10.200	25.000	P	07/05/2013	13:16	LB66716
	Lead	1.300	<3.000	U	1.300	3.000	P	07/05/2013	13:16	LB66716
	Magnesium	16.250	<500.000	U	16.250	500.000	P	07/05/2013	13:16	LB66716
	Manganese	0.850	<5.000	U	0.850	5.000	P	07/05/2013	13:16	LB66716
	Nickel	2.100	<10.000	U	2.100	10.000	P	07/05/2013	13:16	LB66716
	Potassium	26.380	<500.000	J	19.400	500.000	P	07/05/2013	13:16	LB66716
	Selenium	2.400	<5.000	U	2.400	5.000	P	07/05/2013	13:16	LB66716
	Silver	0.750	<2.500	U	0.750	2.500	P	07/05/2013	13:16	LB66716
	Sodium	6.950	<500.000	U	6.950	500.000	P	07/05/2013	13:16	LB66716
	Thallium	1.200	<10.000	U	1.200	10.000	P	07/05/2013	13:16	LB66716
	Vanadium	3.050	<10.000	U	3.050	10.000	P	07/05/2013	13:16	LB66716
	Zinc	3.250	<10.000	U	3.250	10.000	P	07/05/2013	13:16	LB66716

Metals
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INTERFERENCE CHECK SAMPLE

Client: Impact Environmental **SDG No.:** E2710

Contract: IMPA01 **Lab Code:** CHEM **Case No.:** E2710 **SAS No.:** E2710

ICS Source: EPA **Instrument ID:** P4

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window	Analysis Date	Analysis Time	Run Number
ICSA01	Aluminum	245000	244100	100.4	80 - 120%	07/05/2013	12:49	LB66716
	Antimony	2.0				07/05/2013	12:49	LB66716
	Arsenic	6.4				07/05/2013	12:49	LB66716
	Barium	7.0	2	350.0	-9900 - 10100%	07/05/2013	12:49	LB66716
	Beryllium	0.020				07/05/2013	12:49	LB66716
	Cadmium	2.8				07/05/2013	12:49	LB66716
	Calcium	259000	234900	110.3	80 - 120%	07/05/2013	12:49	LB66716
	Chromium	40.0	43	93.0	77 - 123%	07/05/2013	12:49	LB66716
	Cobalt	5.0	4	125.0	-1150 - 1350%	07/05/2013	12:49	LB66716
	Copper	23.9	23	103.9	-9 - 209%	07/05/2013	12:49	LB66716
	Iron	99900	95600	104.5	80 - 120%	07/05/2013	12:49	LB66716
	Lead	10.2	10	102.0	0 - 200%	07/05/2013	12:49	LB66716
	Magnesium	271000	247500	109.5	80 - 120%	07/05/2013	12:49	LB66716
	Manganese	19.3	19	101.6	21 - 179%	07/05/2013	12:49	LB66716
	Nickel	23.9	21	113.8	-90 - 290%	07/05/2013	12:49	LB66716
	Potassium	-95.0				07/05/2013	12:49	LB66716
	Selenium	0.030				07/05/2013	12:49	LB66716
	Silver	-0.12				07/05/2013	12:49	LB66716
	Sodium	874				07/05/2013	12:49	LB66716
	Thallium	0.37				07/05/2013	12:49	LB66716
	Vanadium	-7.3				07/05/2013	12:49	LB66716
	Zinc	29.6	28	105.7	-114 - 314%	07/05/2013	12:49	LB66716
ICSAB01	Aluminum	242000	248400	97.4	80 - 120%	07/05/2013	12:52	LB66716
	Antimony	598	613	97.6	80 - 120%	07/05/2013	12:52	LB66716
	Arsenic	107	101	105.9	80 - 120%	07/05/2013	12:52	LB66716
	Barium	513	517	99.2	60 - 140%	07/05/2013	12:52	LB66716
	Beryllium	516	504	102.4	80 - 120%	07/05/2013	12:52	LB66716
	Cadmium	980	989	99.1	80 - 120%	07/05/2013	12:52	LB66716
	Calcium	254000	243700	104.2	80 - 120%	07/05/2013	12:52	LB66716
	Chromium	523	519	100.8	80 - 120%	07/05/2013	12:52	LB66716
	Cobalt	499	481	103.7	80 - 120%	07/05/2013	12:52	LB66716
	Copper	511	550	92.9	80 - 120%	07/05/2013	12:52	LB66716
	Iron	96200	96840	99.3	80 - 120%	07/05/2013	12:52	LB66716
	Lead	65.5	61	107.4	80 - 120%	07/05/2013	12:52	LB66716
	Magnesium	266000	248700	107.0	80 - 120%	07/05/2013	12:52	LB66716
	Manganese	502	507	99.0	80 - 120%	07/05/2013	12:52	LB66716
	Nickel	1000	983	101.7	80 - 120%	07/05/2013	12:52	LB66716
	Potassium	15.7				07/05/2013	12:52	LB66716
	Selenium	44.9	51	88.0	34 - 166%	07/05/2013	12:52	LB66716
	Silver	197	205	96.1	80 - 120%	07/05/2013	12:52	LB66716
	Sodium	847				07/05/2013	12:52	LB66716
	Thallium	95.7	99	96.7	76 - 124%	07/05/2013	12:52	LB66716
	Vanadium	465	488	95.3	80 - 120%	07/05/2013	12:52	LB66716
	Zinc	909	986	92.2	80 - 120%	07/05/2013	12:52	LB66716
ICSA01	Aluminum	239000	244100	97.9	80 - 120%	07/15/2013	14:47	LB66836A

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INTERFERENCE CHECK SAMPLE

Client: Impact Environmental **SDG No.:** E2710

Contract: IMPA01 **Lab Code:** CHEM **Case No.:** E2710 **SAS No.:** E2710

ICS Source: EPA **Instrument ID:** P4

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window	Analysis Date	Analysis Time	Run Number
ICSA01	Antimony	-4.6				07/15/2013	14:47	LB66836A
	Arsenic	-10.7				07/15/2013	14:47	LB66836A
	Barium	8.2	2	410.0	-9900 - 10100%	07/15/2013	14:47	LB66836A
	Beryllium	-2.5				07/15/2013	14:47	LB66836A
	Cadmium	-0.29				07/15/2013	14:47	LB66836A
	Calcium	251000	234900	106.9	80 - 120%	07/15/2013	14:47	LB66836A
	Chromium	44.0	43	102.3	77 - 123%	07/15/2013	14:47	LB66836A
	Cobalt	5.0	4	125.0	-1150 - 1350%	07/15/2013	14:47	LB66836A
	Copper	25.3	23	110.0	-9 - 209%	07/15/2013	14:47	LB66836A
	Iron	96300	95600	100.7	80 - 120%	07/15/2013	14:47	LB66836A
	Lead	10.4	10	104.0	0 - 200%	07/15/2013	14:47	LB66836A
	Magnesium	250000	247500	101.0	80 - 120%	07/15/2013	14:47	LB66836A
	Manganese	18.4	19	96.8	21 - 179%	07/15/2013	14:47	LB66836A
	Nickel	21.7	21	103.3	-90 - 290%	07/15/2013	14:47	LB66836A
	Potassium	187				07/15/2013	14:47	LB66836A
	Selenium	-0.21				07/15/2013	14:47	LB66836A
	Silver	-2.1				07/15/2013	14:47	LB66836A
	Sodium	126				07/15/2013	14:47	LB66836A
	Thallium	-3.2				07/15/2013	14:47	LB66836A
	Vanadium	-6.8				07/15/2013	14:47	LB66836A
	Zinc	27.3	28	97.5	-114 - 314%	07/15/2013	14:47	LB66836A
ICSAB01	Aluminum	237000	248400	95.4	80 - 120%	07/15/2013	14:51	LB66836A
	Antimony	606	613	98.9	80 - 120%	07/15/2013	14:51	LB66836A
	Arsenic	85.4	101	84.6	80 - 120%	07/15/2013	14:51	LB66836A
	Barium	543	517	105.0	60 - 140%	07/15/2013	14:51	LB66836A
	Beryllium	508	504	100.8	80 - 120%	07/15/2013	14:51	LB66836A
	Cadmium	987	989	99.8	80 - 120%	07/15/2013	14:51	LB66836A
	Calcium	252000	243700	103.4	80 - 120%	07/15/2013	14:51	LB66836A
	Chromium	536	519	103.3	80 - 120%	07/15/2013	14:51	LB66836A
	Cobalt	503	481	104.6	80 - 120%	07/15/2013	14:51	LB66836A
	Copper	526	550	95.6	80 - 120%	07/15/2013	14:51	LB66836A
	Iron	95300	96840	98.4	80 - 120%	07/15/2013	14:51	LB66836A
	Lead	63.8	61	104.6	80 - 120%	07/15/2013	14:51	LB66836A
	Magnesium	252000	248700	101.3	80 - 120%	07/15/2013	14:51	LB66836A
	Manganese	506	507	99.8	80 - 120%	07/15/2013	14:51	LB66836A
	Nickel	1010	983	102.7	80 - 120%	07/15/2013	14:51	LB66836A
	Potassium	90.8				07/15/2013	14:51	LB66836A
	Selenium	49.1	51	96.3	34 - 166%	07/15/2013	14:51	LB66836A
	Silver	200	205	97.6	80 - 120%	07/15/2013	14:51	LB66836A
	Sodium	168				07/15/2013	14:51	LB66836A
	Thallium	95.5	99	96.5	76 - 124%	07/15/2013	14:51	LB66836A
	Vanadium	484	488	99.2	80 - 120%	07/15/2013	14:51	LB66836A
	Zinc	1030	986	104.5	80 - 120%	07/15/2013	14:51	LB66836A

METAL QC DATA

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metals
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MATRIX SPIKE SUMMARY

client: Impact Environmental **level:** low **sdg no.:** E2710

contract: IMPA01 **lab code:** CHEM **case no.:** E2710 **sas no.:** E2710

matrix: WATER **sample id:** E2653-11 **client id:** WS-9S

Percent Solids for Sample: 0 **Spiked ID:** E2653-11S **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	ug/L	64 - 129	1477.9000		664.1500		1000.00	81.4		P
Antimony	ug/L	74 - 115	363.8700		4.0000	U	400.00	91.0		P
Arsenic	ug/L	78 - 117	372.9000		2.2000	J	400.00	92.7		P
Barium	ug/L	81 - 124	169.5250		76.8350		100.00	92.7		P
Beryllium	ug/L	77 - 116	93.2500		0.3500	U	100.00	93.2		P
Cadmium	ug/L	72 - 121	89.8100		0.5300	J	100.00	89.3		P
Calcium	ug/L	10 - 236	61105.0000		58280.0000		500.00	565.0		P
Chromium	ug/L	75 - 117	227.0750		53.0150		200.00	87.0		P
Cobalt	ug/L	74 - 116	93.8750		3.4100	J	100.00	90.5		P
Copper	ug/L	75 - 111	156.9550		29.5150		150.00	85.0		P
Iron	ug/L	27 - 152	1418.6500		32.7300		1500.00	92.4		P
Lead	ug/L	74 - 119	441.3250		1.3000	U	500.00	88.3		P
Magnesium	ug/L	10 - 185	2973.6000		1982.9000		1000.00	99.1		P
Manganese	ug/L	10 - 168	100.7250		15.6150		100.00	85.1		P
Nickel	ug/L	75 - 118	237.4500		12.3600		250.00	90.0		P
Potassium	ug/L	41 - 167	143925.0000		133435.0000		5000.00	209.8		P
Selenium	ug/L	71 - 107	866.9000		2.4000	U	1000.00	86.7		P
Silver	ug/L	77 - 122	33.2650		1.5150	J	37.50	84.7		P
Sodium	ug/L	10 - 194	579150.0000		558899.9000		1500.00	1350.0		P
Thallium	ug/L	76 - 124	824.5000		1.2000	U	1000.00	82.4		P
Vanadium	ug/L	78 - 113	156.4700		28.4200		150.00	85.4		P
Zinc	ug/L	62 - 116	1316.1500		1170.1500		100.00	146.0		P

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metals
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MATRIX SPIKE DUPLICATE SUMMARY

client: Impact Environmental **level:** low **sdg no.:** E2710

contract: IMPA01 **lab code:** CHEM **case no.:** E2710 **sas no.:** E2710

matrix: WATER **sample id:** E2653-11 **client id:** WS-9SD

Percent Solids for Sample: 0 **Spiked ID:** E2653-11SD **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	ug/L	64 - 129	1486.2000		664.1500		1000.00	82.2		P
Antimony	ug/L	74 - 115	368.1800		4.0000	U	400.00	92.0		P
Arsenic	ug/L	78 - 117	375.1000		2.2000	J	400.00	93.2		P
Barium	ug/L	81 - 124	172.2050		76.8350		100.00	95.4		P
Beryllium	ug/L	77 - 116	93.7800		0.3500	U	100.00	93.8		P
Cadmium	ug/L	72 - 121	90.4250		0.5300	J	100.00	89.9		P
Calcium	ug/L	10 - 236	61455.0000		58280.0000		500.00	635.0		P
Chromium	ug/L	75 - 117	227.9250		53.0150		200.00	87.5		P
Cobalt	ug/L	74 - 116	94.3400		3.4100	J	100.00	90.9		P
Copper	ug/L	75 - 111	158.0900		29.5150		150.00	85.7		P
Iron	ug/L	27 - 152	1424.2000		32.7300		1500.00	92.8		P
Lead	ug/L	74 - 119	444.4400		1.3000	U	500.00	88.9		P
Magnesium	ug/L	10 - 185	3003.3000		1982.9000		1000.00	102.0		P
Manganese	ug/L	10 - 168	101.7400		15.6150		100.00	86.1		P
Nickel	ug/L	75 - 118	239.3250		12.3600		250.00	90.8		P
Potassium	ug/L	41 - 167	145405.0000		133435.0000		5000.00	239.4		P
Selenium	ug/L	71 - 107	873.3500		2.4000	U	1000.00	87.3		P
Silver	ug/L	77 - 122	33.2450		1.5150	J	37.50	84.6		P
Sodium	ug/L	10 - 194	591650.0000		558899.9000		1500.00	2183.3		P
Thallium	ug/L	76 - 124	830.7500		1.2000	U	1000.00	83.1		P
Vanadium	ug/L	78 - 113	157.2500		28.4200		150.00	85.9		P
Zinc	ug/L	62 - 116	1366.0000		1170.1500		100.00	195.8		P

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metals
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MATRIX SPIKE SUMMARY

client: Impact Environmental **level:** low **sdg no.:** E2710

contract: IMPA01 **lab code:** CHEM **case no.:** E2710 **sas no.:** E2710

matrix: WATER **sample id:** E2710-02 **client id:** IW-3DS

Percent Solids for Sample: 0 **Spiked ID:** E2710-02S **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	ug/L	49 - 128	3.7600		0.0915	U	4.00	94.0		CV

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metals
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MATRIX SPIKE DUPLICATE SUMMARY

client: Impact Environmental **level:** low **sdg no.:** E2710

contract: IMPA01 **lab code:** CHEM **case no.:** E2710 **sas no.:** E2710

matrix: WATER **sample id:** E2710-02 **client id:** IW-3DSD

Percent Solids for Sample: 0 **Spiked ID:** E2710-02SD **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	ug/L	49 - 128	3.7500		0.0915	U	4.00	93.8		CV

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Metals
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Client: Impact Environmental **SDG No.:** E2710

Contract: IMPA01 **Lab Code:** CHEM **Case No.:** E2710 **SAS No.:** E2710

Matrix: **Level:** LOW **Client ID:**

Sample ID: **Spiked ID:**

Analyte	Units	Acceptance Limit %R	C	Sample Result	C	Spike Added	% Recovery	Qual	M

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Metals

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DUPLICATE SAMPLE SUMMARY

Client: Impact Environmental **Level:** LOW **SDG No.:** E2710

Contract: IMPA01 **Lab Code:** CHEM **Case No.:** E2710 **SAS No.:** E2710

Matrix: WATER **Sample ID:** E2653-11 **Client ID:** WS-9D

Percent Solids for Sample: 0 **Duplicate ID** E2653-11D **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	ug/L	20	664.1500		666.4500		0.3		P
Antimony	ug/L	20	4.0000	U	4.0000	U			P
Arsenic	ug/L	20	2.2000	J	2.6350	J	18.0		P
Barium	ug/L	20	76.8350		81.9400		6.4		P
Beryllium	ug/L	20	0.3500	U	0.3500	U			P
Cadmium	ug/L	20	0.5300	J	0.5850	J	9.9		P
Calcium	ug/L	20	58280.0000		61690.0000		5.7		P
Chromium	ug/L	20	53.0150		53.7750		1.4		P
Cobalt	ug/L	20	3.4100	J	3.5850	J	5.0		P
Copper	ug/L	20	29.5150		30.9550		4.8		P
Iron	ug/L	20	32.7300		53.3300		47.9		P
Lead	ug/L	20	1.3000	U	1.3000	U			P
Magnesium	ug/L	20	1982.9000		2091.0500		5.3		P
Manganese	ug/L	20	15.6150		15.7100		0.6		P
Nickel	ug/L	20	12.3600		13.2650		7.1		P
Potassium	ug/L	20	133435.0000		142400.0000		6.5		P
Selenium	ug/L	20	2.4000	U	3.8300	J	200.0		P
Silver	ug/L	20	1.5150	J	1.4750	J	2.7		P
Sodium	ug/L	20	558899.9000		588600.0000		5.2		P
Thallium	ug/L	20	1.2000	U	1.2000	U			P
Vanadium	ug/L	20	28.4200		29.6000		4.1		P
Zinc	ug/L	20	1170.1500		1155.4499		1.3		P

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

Metals

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DUPLICATE SAMPLE SUMMARY

Client: Impact Environmental **Level:** LOW **SDG No.:** E2710

Contract: IMPA01 **Lab Code:** CHEM **Case No.:** E2710 **SAS No.:** E2710

Matrix: WATER **Sample ID:** E2653-11 **Client ID:** WS-9SD

Percent Solids for Sample: 0 **Duplicate ID** E2653-11SD **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	ug/L	20	1477.9000		1486.2000		0.6		P
Antimony	ug/L	20	363.8700		368.1800		1.2		P
Arsenic	ug/L	20	372.9000		375.1000		0.6		P
Barium	ug/L	20	169.5250		172.2050		1.6		P
Beryllium	ug/L	20	93.2500		93.7800		0.6		P
Cadmium	ug/L	20	89.8100		90.4250		0.7		P
Calcium	ug/L	20	61105.0000		61455.0000		0.6		P
Chromium	ug/L	20	227.0750		227.9250		0.4		P
Cobalt	ug/L	20	93.8750		94.3400		0.5		P
Copper	ug/L	20	156.9550		158.0900		0.7		P
Iron	ug/L	20	1418.6500		1424.2000		0.4		P
Lead	ug/L	20	441.3250		444.4400		0.7		P
Magnesium	ug/L	20	2973.6000		3003.3000		1.0		P
Manganese	ug/L	20	100.7250		101.7400		1.0		P
Nickel	ug/L	20	237.4500		239.3250		0.8		P
Potassium	ug/L	20	143925.0000		145405.0000		1.0		P
Selenium	ug/L	20	866.9000		873.3500		0.7		P
Silver	ug/L	20	33.2650		33.2450		0.1		P
Sodium	ug/L	20	579150.0000		591650.0000		2.1		P
Thallium	ug/L	20	824.5000		830.7500		0.8		P
Vanadium	ug/L	20	156.4700		157.2500		0.5		P
Zinc	ug/L	20	1316.1500		1366.0000		3.7		P

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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Metals

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DUPLICATE SAMPLE SUMMARY

Client: Impact Environmental **Level:** LOW **SDG No.:** E2710

Contract: IMPA01 **Lab Code:** CHEM **Case No.:** E2710 **SAS No.:** E2710

Matrix: WATER **Sample ID:** E2710-02 **Client ID:** IW-3DD

Percent Solids for Sample: 0 **Duplicate ID** E2710-02D **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	ug/L	20	0.0915	U	0.0915	U			CV

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

Metals

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DUPLICATE SAMPLE SUMMARY

Client: Impact Environmental **Level:** LOW **SDG No.:** E2710

Contract: IMPA01 **Lab Code:** CHEM **Case No.:** E2710 **SAS No.:** E2710

Matrix: WATER **Sample ID:** E2710-02 **Client ID:** IW-3DSD

Percent Solids for Sample: 0 **Duplicate ID** E2710-02SD **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	ug/L	20	3.7600		3.7500		0.3		CV

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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Metals

LABORATORY CONTROL SAMPLE SUMMARY

Client: Impact Environmental **SDG No.:** E2710

Contract: IMPA01 **Lab Code:** CHEM **Case No.:** E2710 **SAS No.:** E2710

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB70601BS							
Aluminum	ug/L	1000.0	994.95		99.5	81 - 117	P
Antimony	ug/L	400.0	407.18		101.8	79 - 114	P
Arsenic	ug/L	400.0	405.63		101.4	82 - 113	P
Barium	ug/L	100.0	106.65		106.6	83 - 118	P
Beryllium	ug/L	100.0	101.80		101.8	84 - 115	P
Cadmium	ug/L	100.0	100.59		100.6	82 - 119	P
Calcium	ug/L	500.0	532.45		106.5	10 - 129	P
Chromium	ug/L	200.0	205.42		102.7	83 - 118	P
Cobalt	ug/L	100.0	101.42		101.4	82 - 118	P
Copper	ug/L	150.0	158.21		105.5	80 - 115	P
Iron	ug/L	1500.0	1613.50		107.6	79 - 112	P
Lead	ug/L	500.0	503.20		100.6	83 - 119	P
Magnesium	ug/L	1000.0	1081.90		108.2	10 - 123	P
Manganese	ug/L	100.0	103.27		103.3	10 - 115	P
Nickel	ug/L	250.0	255.93		102.4	84 - 123	P
Potassium	ug/L	5000.0	5194.00		103.9	67 - 121	P
Selenium	ug/L	1000.0	1014.60		101.5	75 - 108	P
Silver	ug/L	37.5	35.17		93.8	81 - 126	P
Sodium	ug/L	1500.0	1609.75		107.3	10 - 165	P
Thallium	ug/L	1000.0	995.45		99.5	86 - 122	P
Vanadium	ug/L	150.0	147.04		98.0	84 - 114	P
Zinc	ug/L	100.0	105.55		105.6	89 - 126	P

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Metals

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LABORATORY CONTROL SAMPLE SUMMARY

Client: Impact Environmental **SDG No.:** E2710

Contract: IMPA01 **Lab Code:** CHEM **Case No.:** E2710 **SAS No.:** E2710

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB70621BS							
Mercury	ug/L	4.000	3.940		98.5	67 - 127	CV

Metals

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ICP SERIAL DILUTIONS

SAMPLE NO.

WS-9L

Lab Name: Chemtech Consulting Group **Contract:** IMPA01

Lab Code: CHEM **Case No.:** E2710 **SAS No.:** E2710 **SDG No.:** E2710

Matrix (soil/water): Water **Level (low/med):** LOW

Concentration Units: ug/l

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Aluminum	664.15		620.50		6.6		P
Antimony	4.00	U	20.00	U			P
Arsenic	2.20	J	10.50	U	100.0		P
Barium	76.84		80.33	J	4.5		P
Beryllium	0.35	U	1.75	U			P
Cadmium	0.53	J	1.25	U	100.0		P
Calcium	58280.00		55832.50		4.2		P
Chromium	53.02		44.50		16.1		P
Cobalt	3.41	J	14.50	U	100.0		P
Copper	29.52		27.93		5.4		P
Iron	32.73		92.93	J	183.9		P
Lead	1.30	U	6.50	U			P
Magnesium	1982.90		1801.15	J	9.2		P
Manganese	15.62		14.15	J	9.4		P
Nickel	12.36		10.50	U	100.0		P
Potassium	133435.00		124067.50		7.0		P
Selenium	2.40	U	12.00	U			P
Silver	1.52	J	3.75	U	100.0		P
Sodium	558900.00		548050.00		1.9		P
Thallium	1.20	U	6.00	U			P
Vanadium	28.42		26.43	J	7.0		P
Zinc	1170.15		1183.80		1.2		P

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ICP SERIAL DILUTIONS

SAMPLE NO.

IW-3DL

Lab Name: Chemtech Consulting Group **Contract:** IMPA01

Lab Code: CHEM **Case No.:** E2710 **SAS No.:** E2710 **SDG No.:** E2710

Matrix (soil/water): Water **Level (low/med):** LOW

Concentration Units: ug/l

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Mercury	0.09	U	0.46	U			CV

METAL PREPARATION & INSTRUMENT DATA

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METHOD DETECTION LIMITS

Client: Impact Environmental **SDG No.:** E2710

Contract: IMPA01 **Lab Code:** CHEM **Case No.:** E2710 **SAS No.:** E2710

Instrument ID: CV2 **Date:** 01/15/2009 **Preparation Method:**

Analyte	Wave- length (nm)	MDL ug/L	CRQL ug/L	Date: 01/15/2009
Matrix Category: **LIQUID**				
Mercury	253.70	0.0915	0.2000	
Aluminum	308.22	6.50	50.0	
Antimony	206.83	8.00	25.0	
Arsenic	189.04	4.20	10.0	
Barium	493.41	4.00	50.0	
Beryllium	234.86	0.70	3.0	
Cadmium	226.50	0.50	3.0	
Calcium	373.69	31.80	1000.0	
Chromium	267.72	1.10	5.0	
Cobalt	228.62	5.80	15.0	
Copper	224.70	2.00	10.0	
Iron	240.48	20.40	50.0	
Lead	220.35	2.60	6.0	
Magnesium	279.08	32.50	1000.0	
Manganese	257.61	1.70	10.0	
Nickel	231.60	4.20	20.0	
Potassium	766.49	38.80	1000.0	
Selenium	196.02	4.80	10.0	
Silver	328.07	1.50	5.0	
Sodium	589.59	13.90	1000.0	
Thallium	190.86	2.40	20.0	
Vanadium	292.40	6.10	20.0	
Zinc	213.8	6.50	20.0	

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ICP INTERELEMENT CORRECTION FACTORS

Client: Impact Environmental **SDG No.:** E2710

Contract: IMPA01 **Lab Code:** CHEM **Case No.:** E2710 **SAS No.:** E2710

Instrument ID: P4 **Date:** 01/09/2012

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: Al	Ca	Fe	Mg	Ag
Aluminum	396.100	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.833	0.0000000	0.0000360	0.0000000	0.0000000	0.0000000
Arsenic	189.042	-0.0001500	0.0000000	-0.0000610	0.0000000	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.861	0.0000000	0.0000000	0.0000090	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000000	0.0000720	0.0000000	0.0000000
Calcium	373.690	0.0000000	0.0000000	-0.0233600	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000160	0.0000000	0.0000000	0.0000000
Cobalt	228.616	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	224.700	0.0000000	0.0000000	0.0005200	0.0000000	0.0000000
Iron	240.488	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.353	-0.0001080	0.0000160	0.0000290	-0.0000100	0.0000000
Magnesium	279.079	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.610	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000320	0.0000000	0.0000000
Potassium	766.490	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	-0.0002320	0.0000000	0.0000000
Silver	328.068	0.0000000	0.0000000	-0.0001330	0.0000000	0.0000000
Sodium	589.592	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.856	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.402	0.0000000	0.0000000	0.0000260	0.0000000	0.0000000
Zinc	213.800	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

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ICP INTERELEMENT CORRECTION FACTORS

Client: Impact Environmental **SDG No.:** E2710

Contract: IMPA01 **Lab Code:** CHEM **Case No.:** E2710 **SAS No.:** E2710

Instrument ID: P4 **Date:** 01/09/2012

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: As	Ba	Be	Cd	Co
Aluminum	396.100	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.833	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.042	0.0000000	0.0000000	0.0000000	0.0000000	0.0002060
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.861	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	373.690	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.616	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	224.700	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	240.488	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.353	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.079	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.610	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	-0.0001740
Potassium	766.490	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	0.0000000	0.0000000	-0.0006250
Silver	328.068	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.592	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.856	0.0000000	0.0000000	0.0000000	0.0000000	0.0032640
Vanadium	292.402	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	213.800	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

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ICP INTERELEMENT CORRECTION FACTORS

Client: Impact Environmental **SDG No.:** E2710

Contract: IMPA01 **Lab Code:** CHEM **Case No.:** E2710 **SAS No.:** E2710

Instrument ID: P4 **Date:** 01/09/2012

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: Cr	Cu	K	Mn	Mo
Aluminum	396.100	0.0000000	0.0000000	0.0000000	0.0029760	0.0100500
Antimony	206.833	0.0145830	0.0000000	0.0000000	0.0000000	-0.0031290
Arsenic	189.042	0.0007180	0.0000000	0.0000000	0.0000000	-0.0002560
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.861	0.0000000	0.0000000	0.0000000	-0.0000530	-0.0003670
Cadmium	226.502	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	373.690	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0003130	0.0000000
Cobalt	228.616	0.0000000	0.0000000	0.0000000	0.0000000	-0.0021550
Copper	224.700	0.0000000	0.0000000	0.0000000	0.0000000	0.0021970
Iron	240.488	0.0000000	0.0000000	0.0000000	0.0019650	0.0000000
Lead	220.353	0.0000000	0.0008310	0.0000000	0.0000700	-0.0012740
Magnesium	279.079	0.0000000	0.0000000	0.0000000	-0.0020750	-0.0136880
Manganese	257.610	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0001570	0.0003540
Potassium	766.490	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	0.0000000	0.0003760	0.0001160
Silver	328.068	0.0000000	0.0000000	0.0000000	0.0001240	-0.0000900
Sodium	589.592	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.856	0.0002340	0.0000000	0.0000000	0.0010000	0.0000000
Vanadium	292.402	0.0050600	0.0000000	0.0000000	-0.0003770	-0.0001820
Zinc	213.800	-0.0007800	0.0000000	0.0000000	0.0000000	-0.0001600

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ICP INTERELEMENT CORRECTION FACTORS

Client: Impact Environmental **SDG No.:** E2710

Contract: IMPA01 **Lab Code:** CHEM **Case No.:** E2710 **SAS No.:** E2710

Instrument ID: P4 **Date:** 01/09/2012

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: Na	Ni	Pb	Sb	Se
Aluminum	396.100	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.833	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	193.759	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.861	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	-0.0000810	0.0000000	0.0000000	0.0000000
Calcium	373.690	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0004160	0.0000000
Cobalt	228.616	0.0000000	0.0001510	0.0000000	0.0000000	0.0000000
Copper	224.700	0.0000000	-0.0042280	0.0027390	0.0000000	0.0000000
Iron	240.488	0.0000000	0.0000000	0.0000000	0.0030850	0.0000000
Lead	220.353	0.0000000	0.0001740	0.0000000	-0.0000980	0.0000000
Magnesium	279.079	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.610	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.490	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.068	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.592	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.856	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.402	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	213.800	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

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ICP INTERELEMENT CORRECTION FACTORS

Client: Impact Environmental **SDG No.:** E2710

Contract: IMPA01 **Lab Code:** CHEM **Case No.:** E2710 **SAS No.:** E2710

Instrument ID: P4 **Date:** 01/09/2012

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: Sn	Ti	Tl	V	Zn
Aluminum	396.100	0.0000000	0.0000000	0.0000000	0.0331070	0.0000000
Antimony	206.833	0.0000000	0.0006570	0.0000000	0.0000000	0.0000000
Arsenic	193.759	0.0000000	0.0000000	0.0000000	-0.0034790	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.861	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	373.690	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0007080	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.616	0.0000000	0.0015730	0.0000000	0.0000000	0.0000000
Copper	224.700	0.0000000	0.0003550	0.0000000	0.0000000	0.0000000
Iron	240.488	0.0034480	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.353	0.0000000	-0.0002710	0.0000000	-0.0001150	0.0000000
Magnesium	279.079	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.610	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0004100	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.490	0.0000000	0.0000000	0.0000000	0.0035820	0.0000000
Selenium	196.090	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.068	0.0000000	-0.0004480	0.0000000	-0.0001790	0.0000000
Sodium	589.592	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.856	0.0000000	-0.0065000	0.0000000	-0.0291690	0.0000000
Vanadium	292.402	0.0000000	0.0008050	0.0000000	0.0000000	0.0000000
Zinc	213.800	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

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LINEAR RANGES

Client: Impact Environmental **SDG No.:** E2710

Contract: IMPA01 **Lab Code:** CHEM **Case No.:** E2710 **SAS No.:** E2710

Instrument ID: P4 **Date:** 07/19/2011

Analyte	Integration Time (sec)	LDR ug/L
Aluminum	10	1500000
Antimony	10	50000
Arsenic	10	85000
Barium	10	55000
Beryllium	10	10000
Cadmium	10	11000
Calcium	10	3500000
Chromium	10	100000
Cobalt	10	50000
Copper	10	100000
Iron	10	2300000
Lead	10	200000
Magnesium	10	3500000
Manganese	10	95000
Nickel	10	100000
Potassium	10	2000000
Selenium	10	50000
Silver	10	11000
Sodium	10	2000000
Thallium	10	20000
Vanadium	10	100000
Zinc	10	95000

METAL PREPARATION & ANALYICAL SUMMARY

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SAMPLE PREPARATION SUMMARY

Client: Impact Environmental **SDG No.:** E2710

Contract: IMPA01 **Lab Code:** CHEM **Method:** P

Case No.: E2710 **SAS No.:** E2710

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB70601**						
E2653-11D	WS-9D	DUP	WATER	06/28/2013	50.0	25.0	
E2653-11S	WS-9S	MS	WATER	06/28/2013	50.0	25.0	
E2653-11SD	WS-9SD	MSD	WATER	06/28/2013	50.0	25.0	
E2710-01	IW-3S	SAM	WATER	06/28/2013	50.0	25.0	
E2710-02	IW-3D	SAM	WATER	06/28/2013	50.0	25.0	
E2710-03	MLW-1IS	SAM	WATER	06/28/2013	50.0	25.0	
E2710-04	MLW-1ID	SAM	WATER	06/28/2013	50.0	25.0	
E2710-05	MLW-1D	SAM	WATER	06/28/2013	50.0	25.0	
E2710-06	SW-1	SAM	WATER	06/28/2013	50.0	25.0	
E2710-07	SVE-2	SAM	WATER	06/28/2013	50.0	25.0	
PB70601BL	PB70601BL	MB	WATER	06/28/2013	50.0	25.0	
PB70601BS	PB70601BS	LCS	WATER	06/28/2013	50.0	25.0	

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SAMPLE PREPARATION SUMMARY

Client: Impact Environmental **SDG No.:** E2710

Contract: IMPA01 **Lab Code:** CHEM **Method:** CV

Case No.: E2710 **SAS No.:** E2710

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB70621**						
E2710-01	IW-3S	SAM	WATER	06/28/2013	30.0	30.0	
E2710-02	IW-3D	SAM	WATER	06/28/2013	30.0	30.0	
E2710-02D	IW-3DD	DUP	WATER	06/28/2013	30.0	30.0	
E2710-02S	IW-3DS	MS	WATER	06/28/2013	30.0	30.0	
E2710-02SD	IW-3DSD	MSD	WATER	06/28/2013	30.0	30.0	
E2710-03	MLW-1IS	SAM	WATER	06/28/2013	30.0	30.0	
E2710-04	MLW-1ID	SAM	WATER	06/28/2013	30.0	30.0	
E2710-05	MLW-1D	SAM	WATER	06/28/2013	30.0	30.0	
E2710-06	SW-1	SAM	WATER	06/28/2013	30.0	30.0	
E2710-07	SVE-2	SAM	WATER	06/28/2013	30.0	30.0	
PB70621BL	PB70621BL	MB	WATER	06/28/2013	30.0	30.0	
PB70621BS	PB70621BS	LCS	WATER	06/28/2013	30.0	30.0	

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ANALYSIS RUN LOG

Client: Impact Environmental **Contract:** IMPA01

Lab Code: CHEM **Case No.:** E2710 **SAS No.:** E2710 **SDG No.:** E2710

Instrument ID Number: CV2 **Method:** CV **Run Number:** LB66640

Start Date: 07/01/2013 **End Date:** 07/01/2013

EPA Sample No.	D/F	Time	% R	Analytes																										
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
Std01Rep1	1	1223																X									
Std02Rep1	1	1225																X									
Std03Rep1	1	1227																X									
Std04Rep1	1	1229																X									
Std05Rep1	1	1231																X									
Std06Rep1	1	1232																X									
ICV01	1	1237																X									
ICB01	1	1239																X									
CCV01	1	1241																X									
CCB01	1	1243																X									
CRI01	1	1248																X									
PB70621BL	1	1253																X									
PB70621BS	1	1254																X									
CCV02	1	1305																X									
CCB02	1	1307																X									
IW-3S	1	1328																X									
IW-3D	1	1330																X									
CCV03	1	1332																X									
CCB03	1	1333																X									
IW-3DD	1	1336																X									
IW-3DS	1	1338																X									
IW-3DSD	1	1339																X									
IW-3DA	1	1341																									
IW-3DL	5	1343																X									
MLW-1IS	1	1345																X									
MLW-1ID	1	1346																X									
MLW-1D	1	1348																X									
SW-1	1	1350																X									
SVE-2	1	1352																X									
CCV04	1	1354																X									
CCB04	1	1355																X									
CCV05	1	1419																X									
CCB05	1	1420																X									
CCV06	1	1442																X									
CCB06	1	1444																X									
CCV07	1	1458																X									
CCB07	1	1512																X									

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ANALYSIS RUN LOG

Client: Impact Environmental **Contract:** IMPA01

Lab Code: CHEM **Case No.:** E2710 **SAS No.:** E2710 **SDG No.:** E2710

Instrument ID Number: P4 **Method:** P **Run Number:** LB66716

Start Date: 07/05/2013 **End Date:** 07/05/2013

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
S0	1	1211		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
S1	1	1215		X	X	X	X	X	X		X	X	X	X	X		X		X		X	X		X	X	X	
S2	1	1218								X						X				X			X				
S3	1	1222		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
S4	1	1225		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
S5	1	1228		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ICV01	1	1232		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ICB01	1	1238		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CRI01	1	1242		X	X	X	X	X	X		X	X	X	X	X		X		X		X	X		X	X	X	
CRI02	1	1245								X						X				X			X				
ICSA01	1	1249		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ICSAB01	1	1252		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCV01	1	1255		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCB01	1	1306		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
PB70601BL	1	1316		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
PB70601BS	1	1319		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
WS-9D	1	1326		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
WS-9L	5	1330		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
WS-9S	1	1333		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
WS-9SD	1	1336		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCV02	1	1343		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCB02	1	1347		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCV03	1	1424		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCB03	1	1434		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCV04	1	1512		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCB04	1	1515		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCV05	1	1602		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCB05	1	1605		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCV06	1	1629		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCB06	1	1639		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCV07	1	1700		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCB07	1	1710		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCV08	1	1747		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCB08	1	1750		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCV09	1	1833		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCB09	1	1846		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCV10	1	1924		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCB10	1	1927		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCV11	1	2006		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCB11	1	2009		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCV12	1	2040		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	

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Metals
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ANALYSIS RUN LOG

Client: Impact Environmental **Contract:** IMPA01

Lab Code: CHEM **Case No.:** E2710 **SAS No.:** E2710 **SDG No.:** E2710

Instrument ID Number: P4 **Method:** P **Run Number:** LB66716

Start Date: 07/05/2013 **End Date:** 07/05/2013

EPA Sample No.	D/F	Time	% R	Analytes																						
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
CCB12	1	2043		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCV13	1	2117		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCB13	1	2120		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	

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Metals
- 14 -
ANALYSIS RUN LOG

Client: Impact Environmental **Contract:** IMPA01

Lab Code: CHEM **Case No.:** E2710 **SAS No.:** E2710 **SDG No.:** E2710

Instrument ID Number: P4 **Method:** P **Run Number:** LB66836A

Start Date: 07/15/2013 **End Date:** 07/15/2013

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
S0	1	1407		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
S1	1	1410		X	X	X	X	X	X		X	X	X	X	X		X		X		X	X		X	X	X	
S2	1	1413								X						X				X			X				
S3	1	1417		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
S4	1	1420		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
S5	1	1423		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ICV01	1	1426		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
LLICV01	1	1437		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ICB01	1	1441		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CRI01	1	1444		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ICSA01	1	1447		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ICSAB01	1	1451		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
LLCCV01	1	1504		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCV01	1	1508		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCB01	1	1511		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
IW-3S	1	1525		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
IW-3D	1	1528		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
MLW-1IS	1	1532		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
MLW-1ID	1	1535		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
MLW-1D	1	1538		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
SW-1	1	1542		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
SVE-2	1	1545		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
LLCCV02	1	1549		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCV02	1	1552		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCB02	1	1555		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCV03	1	1633		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCB03	1	1636		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCV04	1	1713		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCB04	1	1717		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCV05	1	1754		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCB05	1	1757		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCV06	1	1835		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCB06	1	1838		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCV07	1	1915		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCB07	1	1919		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCV08	1	1956		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCB08	1	1959		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCV09	1	2036		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCB09	1	2040		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCV10	1	2117		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCB10	1	2120		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	

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Metals
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ANALYSIS RUN LOG

Client: Impact Environmental **Contract:** IMPA01

Lab Code: CHEM **Case No.:** E2710 **SAS No.:** E2710 **SDG No.:** E2710

Instrument ID Number: P4 **Method:** P **Run Number:** LB66836A

Start Date: 07/15/2013 **End Date:** 07/15/2013

EPA Sample No.	D/F	Time	% R	Analytes																						
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
LLCCV03	1	2201		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCV11	1	2204		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCB11	1	2208		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
LLCCV04	1	2225		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCV12	1	2228		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCB12	1	2231		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	

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LAB CHRONICLE

OrderID:	E2710	**OrderDate:**	6/27/2013 9:49:46 AM
Client:	Impact Environmental	**Project:**	Melody Cleaners
Contact:	Michael Bluight	**Location:**	H63

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
E2710-01	**IW-3S**	**WATER**			**06/26/13 13:00**			**06/27/13**
			COD	SM5220 D		07/05/13	07/05/13 08:45	
			Hexavalent Chromium	7196A		06/27/13	06/27/13 10:41	
E2710-02	**IW-3D**	**WATER**			**06/26/13 13:10**			**06/27/13**
			COD	SM5220 D		07/05/13	07/05/13 08:45	
			Hexavalent Chromium	7196A		06/27/13	06/27/13 10:47	
E2710-03	**MLW-1IS**	**WATER**			**06/26/13 13:20**			**06/27/13**
			COD	SM5220 D		07/05/13	07/05/13 08:45	
			Hexavalent Chromium	7196A		06/27/13	06/27/13 10:49	
E2710-04	**MLW-1ID**	**WATER**			**06/26/13 13:25**			**06/27/13**
			COD	SM5220 D		07/05/13	07/05/13 08:45	
			Hexavalent Chromium	7196A		06/27/13	06/27/13 10:51	
E2710-05	**MLW-1D**	**WATER**			**06/26/13 13:30**			**06/27/13**
			COD	SM5220 D		07/05/13	07/05/13 08:45	
			Hexavalent Chromium	7196A		06/27/13	06/27/13 10:53	
E2710-06	**SW-1**	**WATER**			**06/26/13 13:45**			**06/27/13**
			COD	SM5220 D		07/05/13	07/05/13 08:45	
			Hexavalent Chromium	7196A		06/27/13	06/27/13 10:55	
E2710-07	**SVE-2**	**WATER**			**06/26/13 13:50**			**06/27/13**
			COD	SM5220 D		07/05/13	07/05/13 08:45	
			Hexavalent Chromium	7196A		06/27/13	06/27/13 11:01	

SAMPLE DATA

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Report of Analysis

Client:	Impact Environmental	Date Collected:	06/26/13 13:00
Project:	Melody Cleaners	Date Received:	06/27/13
Client Sample ID:	IW-3S	SDG No.:	E2710
Lab Sample ID:	E2710-01	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
COD	2.5	U	1	2.425	2.5	5	mg/L	07/05/13	07/05/13 08:45	SM5220 D
Hexavalent Chromium	0.005	U	1	0.002	0.005	0.01	mg/L	06/27/13	06/27/13 10:41	7196A

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

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Report of Analysis

Client:	Impact Environmental	Date Collected:	06/26/13 13:10
Project:	Melody Cleaners	Date Received:	06/27/13
Client Sample ID:	IW-3D	SDG No.:	E2710
Lab Sample ID:	E2710-02	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
COD	4.56	J	1	2.425	2.5	5	mg/L	07/05/13	07/05/13 08:45	SM5220 D
Hexavalent Chromium	0.02		1	0.002	0.005	0.01	mg/L	06/27/13	06/27/13 10:47	7196A

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

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Report of Analysis

Client:	Impact Environmental	Date Collected:	06/26/13 13:20
Project:	Melody Cleaners	Date Received:	06/27/13
Client Sample ID:	MLW-1IS	SDG No.:	E2710
Lab Sample ID:	E2710-03	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
COD	3.58	J	1	2.425	2.5	5	mg/L	07/05/13	07/05/13 08:45	SM5220 D
Hexavalent Chromium	0.005	U	1	0.002	0.005	0.01	mg/L	06/27/13	06/27/13 10:49	7196A

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

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Report of Analysis

Client:	Impact Environmental	Date Collected:	06/26/13 13:25
Project:	Melody Cleaners	Date Received:	06/27/13
Client Sample ID:	MLW-1ID	SDG No.:	E2710
Lab Sample ID:	E2710-04	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
COD	3.58	J	1	2.425	2.5	5	mg/L	07/05/13	07/05/13 08:45	SM5220 D
Hexavalent Chromium	0.01		1	0.002	0.005	0.01	mg/L	06/27/13	06/27/13 10:51	7196A

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

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Report of Analysis

Client:	Impact Environmental	Date Collected:	06/26/13 13:30
Project:	Melody Cleaners	Date Received:	06/27/13
Client Sample ID:	MLW-1D	SDG No.:	E2710
Lab Sample ID:	E2710-05	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
COD	7.52		1	2.425	2.5	5	mg/L	07/05/13	07/05/13 08:45	SM5220 D
Hexavalent Chromium	0.005	U	1	0.002	0.005	0.01	mg/L	06/27/13	06/27/13 10:53	7196A

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

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Report of Analysis

Client:	Impact Environmental	Date Collected:	06/26/13 13:45
Project:	Melody Cleaners	Date Received:	06/27/13
Client Sample ID:	SW-1	SDG No.:	E2710
Lab Sample ID:	E2710-06	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
COD	9.48		1	2.425	2.5	5	mg/L	07/05/13	07/05/13 08:45	SM5220 D
Hexavalent Chromium	0.005	U	1	0.002	0.005	0.01	mg/L	06/27/13	06/27/13 10:55	7196A

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

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Report of Analysis

Client:	Impact Environmental	Date Collected:	06/26/13 13:50
Project:	Melody Cleaners	Date Received:	06/27/13
Client Sample ID:	SVE-2	SDG No.:	E2710
Lab Sample ID:	E2710-07	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
COD	25.2		1	2.425	2.5	5	mg/L	07/05/13	07/05/13 08:45	SM5220 D
Hexavalent Chromium	0.005	U	1	0.002	0.005	0.01	mg/L	06/27/13	06/27/13 11:01	7196A

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

QC RESULT SUMMARY

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Initial and Continuing Calibration Verification

Client: Impact Environmental **SDG No.:** E2710

Project: Melody Cleaners **RunNo.:** LB66626

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV1						
Hexavalent Chromium	mg/L	0.50	0.50	100	90-110	06/27/2013
Sample ID: CCV1						
Hexavalent Chromium	mg/L	0.49	0.50	98	90-110	06/27/2013
Sample ID: CCV2						
Hexavalent Chromium	mg/L	0.50	0.50	100	90-110	06/27/2013
Sample ID: CCV3						
Hexavalent Chromium	mg/L	0.50	0.50	100	90-110	06/27/2013

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Initial and Continuing Calibration Verification

Client:	Impact Environmental	**SDG No.:**	E2710
Project:	Melody Cleaners	**RunNo.:**	LB66713

Analyte		Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID:	**CCV1**						
COD		mg/L	48.80	50.00	98	90-110	07/05/2013
Sample ID:	**CCV2**						
COD		mg/L	50.80	50.00	102	90-110	07/05/2013
Sample ID:	**CCV3**						
COD		mg/L	49.80	50.00	100	90-110	07/05/2013
Sample ID:	**ICV1**						
COD		mg/L	46.80	50.00	94	90-110	07/05/2013

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Initial and Continuing Calibration Blank Summary

Client: Impact Environmental **SDG No.:** E2710

Project: Melody Cleaners **RunNo.:** LB66626

Analyte	Units	Result	Acceptance Limits	MDL	RDL	Analysis Date
Sample ID: ICB1						
Hexavalent Chromium	mg/L	< 0.010	+/-0.010	0.002	0.010	06/27/2013
Sample ID: CCB1						
Hexavalent Chromium	mg/L	< 0.010	+/-0.010	0.002	0.010	06/27/2013
Sample ID: CCB2						
Hexavalent Chromium	mg/L	< 0.010	+/-0.010	0.002	0.010	06/27/2013
Sample ID: CCB3						
Hexavalent Chromium	mg/L	< 0.010	+/-0.010	0.002	0.010	06/27/2013

Initial and Continuing Calibration Blank Summary

Client: Impact Environmental **SDG No.:** E2710

Project: Melody Cleaners **RunNo.:** LB66713

Analyte		Units	Result	Acceptance Limits	MDL	RDL	Analysis Date
Sample ID:	CCB1						
COD		mg/L	< 5.000	+/-5.000	2.425	5.000	07/05/2013
Sample ID:	CCB2						
COD		mg/L	< 5.000	+/-5.000	2.425	5.000	07/05/2013
Sample ID:	CCB3						
COD		mg/L	< 5.000	+/-5.000	2.425	5.000	07/05/2013
Sample ID:	ICB1						
COD		mg/L	< 5.000	+/-5.000	2.425	5.000	07/05/2013

Preparation Blank Summary

Client: Impact Environmental **SDG No.:** E2710

Project: Melody Cleaners

Analyte	Units	Result	Acceptance Limits	MDL	RDL	Analysis Date
Sample ID: LB66626BLW						
Hexavalent Chromium	mg/L	< 0.010	+/-0.010	0.002	0.010	06/27/2013
Sample ID: LB66713BLW						
COD	mg/L	< 5.000	+/-5.000	2.425	5.000	07/05/2013

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Matrix Spike Summary

Client: Impact Environmental
SDG No.: E2710
Project: Melody Cleaners
Sample ID: E2710-01
Client ID: IW-3SS
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Hexavalent Chromium	mg/L	75-125	0.95		0.002	U	1.00	2	95		06/27/2013
COD	mg/L	57-139	48.800		2.425	U	50.00	1	98		07/05/2013

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Duplicate Sample Summary

Client: Impact Environmental
SDG No.: E2710
Project: Melody Cleaners
Sample ID: E2710-01
Client ID: IW-3SD
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	Dilution Factor	RPD/ AD	Qual	Analysis Date
Hexavalent Chromium	mg/L	+/-20	0.002	U	0.002	U	1	0		06/27/2013
COD	mg/L	+/-20	2.425	U	2.600	J	1	200		07/05/2013

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Laboratory Control Sample Summary

Client: Impact Environmental **SDG No.:** E2710

Project: Melody Cleaners **Run No.:** LB66626

Analyte	Units	True Value	Result	C	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID LB66626BSW								
Hexavalent Chromium	mg/L	0.50	0.49		98	1	80-120	06/27/2013

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Laboratory Control Sample Summary

Client: Impact Environmental **SDG No.:** E2710

Project: Melody Cleaners **Run No.:** LB66713

Analyte	Units	True Value	Result	C	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID LB66713BSW								
COD	mg/L	50.00	47.80		96	1	91-108	07/05/2013

Method Detection Limits

Client: Impact Environmental **SDG No.:** E2710

Project: Melody Cleaners

Analyte	Units	MDL	RDL
Method: 7196A Hexavalent Chromium		**MDL Date:** 01/15/2006	
Matrix Category: LIQUID			
Hexavalent Chromium	mg/L	0.002	0.010
Method: SM5220 D COD		**MDL Date:** 01/15/2006	
Matrix Category: LIQUID			
COD	mg/L	2.425	5.000

SHIPPING DOCUMENTS

CHEMTECH
CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 Fax (908) 789-8922
www.chemtech.net

CHEMTECH PROJECT NO. E2710
QUOTE NO.
COC Number 029326

CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: Impact Environmental
ADDRESS: 170 Kayland Court
CITY: Bohemia STATE: NY ZIP: 11716
ATTENTION: Michael Bluight
PHONE: 631-269-8800 FAX: 631-269-1599

CLIENT PROJECT INFORMATION

PROJECT NAME: Melody Cleaners - RenOx
PROJECT NO.: 04-455 LOCATION: East Meadow NY
PROJECT MANAGER: M. Bluight
e-mail: mbluight@impactenvironmental.c
PHONE: 631-269-8800 FAX: 631-269-1599

CLIENT BILLING INFORMATION

BILL TO: Impact Environmental PO#: 04-455
ADDRESS: 170 Kayland Court
CITY: Bohemia STATE: NY ZIP: 11716
ATTENTION: M. Bluight PHONE: 631-269-8800

DATA TURNAROUND INFORMATION

FAX: _____ DAYS *
HARD COPY: Standard DAYS *
EDD: _____ DAYS *
PREAPPROVED TAT: ☐ YES ☐ NO
* STANDARD TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

☐ LEVEL 1: Results only
☒ Others: NYS Cat B Deliverables Pkg
☐ LEVEL 2: Results + QC
☐ LEVEL 3: Results (plus results raw data) + QC
☐ LEVEL 4: Results + QC (all raw data)
☒ EDD Format: NYSDEC EQuIS

ANALYSIS

1 TAL Metals
2 COD (chemical oxygen demand)
3 Hexavalent Chromium
4
5
6
7
8
9

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	PRESERVATIVES B/E 1	C/E 2	E 3	4	5	6	7	8	9	COMMENTS
1.	IW-3S	Water		X	6/26/13	13:00	3	1	1	1							
2.	IW-3D	Water		X	6/26/13	13:10	3	1	1	1							
3.	MLW-1 IS	Water		X	6/26/13	13:20	3	1	1	1							
4.	MLW-1 ID	Water		X	6/26/13	13:25	3	1	1	1							
5.	MLW-1D	Water		X	6/26/13	13:30	3	1	1	1							
6.	SW-1	Water		X	6/26/13	13:45	3	1	1	1							
7.	SVE-2	Water		X	6/26/13	13:50	3	1	1	1							
8.																	
9.																	
10.																	

PRESERVATIVES: ← Specify Preservatives
A – HCl B – HNO_3
C – H_2SO_4 D – NaOH
E – ICE F – Other

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
1. [signature]	6/26/13 18:00	1.
RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:
2.		2.
RELINQUISHED BY:	DATE/TIME:	RECEIVED FOR LAB BY:
3. UPS	6/27/13 6:40	3. PS

Conditions of bottles or coolers at receipt: ☒ Compliant ☐ Non Compliant
MeOH extraction requires an additional 4 oz jar for percent solid.
Comments:

Cooler Temp. 5°C
Ice in Cooler?: Y

Page 1 of 1

SHIPPED VIA: CLIENT: ☐ HAND DELIVERED ☒ OVERNIGHT
CHEMTECH: ☐ PICKED UP ☐ OVERNIGHT

Shipment Complete: ☒ YES ☐ NO

Revision 8/2007

WHITE - CHEMTECH COPY FOR RETURN TO CLIENT YELLOW - CHEMTECH COPY PINK - SAMPLER COPY

Melody Cleaners Site
2050 Hempstead Turnpike, East Meadow, NY
NYSDEC VCP No. 00347-1

Supplemental ISCO Work Plan

Attachment C
Health and Safety Plan

Health and Safety Plan

Addendum for In-Situ Chemical Oxidation

October 28, 2011

Conducted at:

Melody Cleaners Site
East Meadow, New York
Voluntary Cleanup Program Site Code #347-1

Prepared for:

New York State Department of Environmental Conservation
Division of Environmental Remediation
625 Broadway
Albany, New York

IMPACT ENVIRONMENTAL

170 KEYLAND COURT, BOHEMIA, NEW YORK 11716 | 631.269.8800 TELEPHONE | 631. 269.1599 FACSIMILE | IMPACTENVIRONMENTAL.COM

TABLE OF CONTENTS

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Appendices

Introduction

This Health and Safety Plan (HASP) addendum describes the procedures to be followed to reduce employee exposure to potential health and safety hazards that may be present at the project site during the in-situ chemical oxidation (ISCO) activities. The emergency response procedures necessary to respond to such hazards are also described within this HASP. **All investigative and/or remedial activities other than the proposed ISCO activities to be performed on the project site will follow the original HASP, prepared by Impact Environmental dated 2001.**

1.1 Purpose

The purpose of this HASP addendum is to provide the contractor's field personnel, subcontractors, and other visitors with an understanding of the potential chemical and physical hazards that exist or may arise during the ISCO activities.

The primary objective is to ensure the well being of all field personnel and the community surrounding this site. In order to accomplish this, project staff and approved subcontractors shall acknowledge and adhere to the policies and procedures established herein. Accordingly, all personnel assigned to this project shall read this HASP and sign the Agreement and Acknowledgment Statement to certify that they have read, understood, and agree to abide by its provisions.

The contractor's personnel have the authority to stop work performed by our sub-contractors at this site if said work is not performed in accordance with the requirements of this HASP.

1.2 Site Description

The Site is a 74,702 square foot commercial shopping center located within the Village of East Meadow in Nassau County New York. The Site is triangular in shape, situated between the intersection of Hempstead Turnpike (on the north) and Front Street (to the south). The Site contains five commercial structures that are currently utilized as a donut shop, a television repair shop, a laundry mat, a dry cleaner and a car wash.

1.3 Scope of Work

According to the approved ISCO work plan, RemOX S (potassium permanganate), product of Carus Chemical Company, will be utilized as the chemical oxidants to remediate groundwater

contamination at the Site. The injection of chemical oxidants into the groundwater requires specialized equipment. Drilling equipment will be used to install permanent and temporary injection points at the site. A mixing tank and pump are necessary to prepare the chemical oxidant solution so it can be pumped into the groundwater via the injection points. The chemical oxidant will react with the site contaminants and breakdown the contaminants to innocuous substances (i.e. carbon dioxide, water, chloride). The injections will be done in phases. The first phase includes installation of permanent injection wells and the initial injection. The second phase will include injections performed at temporary points. Based on groundwater sampling results a third phase may be necessary, which includes injections performed at the permanent wells.

1.4 Chemical Oxidant

Besides the contaminants already identified in the original HASP, the chemical oxidants (potassium permanganate) to be utilized at the Site is the primary chemical of concern (COC) for this HASP addendum. The material safety data sheet (MSDS) of the COC is attached in **Appendix A**.

2.Key Personnel Update

A list of the updated pertinent personnel authorized to be present on site is as follows:

Title	Name	Telephone Number
Project Manager	Kevin Kleaka	(631) 269-8800
Field Operations Leader	Wenqing Fang	(631) 269-8800
Site Health and Safety Officer	Wenqing Fang	(631) 269-8800
Quality Assurance Officer	Kevin Kleaka	(631) 269-8800
Site Contact	Wenqing Fang	(631) 269-8800
State Agency Contact (NYSDEC)	Brian Jankauskas	(518) 402-9620

3.Task / Operation Health and Safety Risk Analysis

The field tasks covered by this HASP addendum include ISCO injection well installation, development, gauging, soil & groundwater handling/sampling, and chemical oxidant injection. The following hazards may be encountered in addition to the hazards identified by the original HASP:

3.1 Chemical Oxidant Handling Hazards

Containers of the RemOX S should be protected against physical damage. When handling RemOx S, respirators should be worn to avoid irritation of, or damage to, mucous membranes. Eye protection should also be worn when handling RemOx S as a solid or in solution.

RemOx S should be stored in a cool, dry area in closed containers. Concrete floors are preferred to wooden decks. To clean up spills and leaks, follow the steps recommended in the MSDS. Goggles, rubber gloves, and respirator should be used when cleaning up a spill or leak.

Avoid contact with acids, peroxides, and all combustible organic or readily oxidizable materials including inorganic oxidizable materials and metal powders. With hydrochloric acid, chlorine gas is liberated. RemOx S is not combustible, but it will support combustion. It may decompose if exposed to intense heat. Fires may be controlled and extinguished by using large quantities of water.

4. Community Air Monitoring Program

During the ISCO activities, the air in work areas will be sampled periodically (on the site and at the property lines) for the presence of contaminants. Levels of organic vapors in the ambient air will be monitored during the fieldwork to ensure that appropriate levels of respiratory protection are employed at all times. Additionally, the testing will be performed to determine if changes to this plan are warranted to protect workers and public heath.

4.1 Organic Compounds

A real-time, organic vapor analyzer to monitor will be utilized for the concentration VOCs in the air in the work areas, and will determine when changes in site operations and personal protection equipment are necessary. No changes in the levels of respiratory protection specified above will be made without the approval of the site safety supervisor and the project team leader.

During the ISCO activities, the site workers will use a photo ionization detector (PID) to monitor levels of organic vapor in the air and verify that they are within the safety guidelines established by the preliminary assessment of the risks associated with site investigations. The PID has an audible alarm set for 5 ppm (the lowest action threshold presented within this plan). If used, the GCI will have an audible alarm set to detect explosive atmospheres. Testing will be performed as necessary within the exclusion zone and at the nearest down-wind property line.

At a minimum, where monitoring equipment is used, the following information will be logged.

- Instrument type and detection range
- Control settings
- Reading locations
- Atmospheric conditions
- Calibration Records – To be performed a minimum of once per day

The data collected during monitoring will be used to guide site operations in a manner that is consistent with the New York State Department of Environmental Conservation, DER-I0 Technical Guidance for Site Investigation and Remediation, Generic Community Air Monitoring Plan.

Accordingly, if the ambient air concentration of total organic vapors at the downwind perimeter of the work area or exclusion zone exceeds 5 parts per million (ppm) above background for the 15-minute average, work activities must be temporarily halted and monitoring continued. If the total organic vapor level readily decreases (per instantaneous readings) below 5 ppm over background, work activities can resume with continued monitoring.

If total organic vapor levels at the downwind perimeter of the work area or exclusion zone persist at levels in excess of 5 ppm over background but less than 25 ppm, work activities must be halted, the source of vapors identified, corrective actions taken to abate emissions, and monitoring continued. After these steps, work activities can resume provided that the total organic vapor level 200 feet downwind of the exclusion zone or half the distance to the nearest potential receptor or residential commercial structure, whichever is less - but in no case less than 20 feet, is below 5 ppm over background for the l5-minute average. **If the organic vapor level is above 25 ppm at the perimeter of the work area, activities must be shutdown.**

4.2 Fugitive Emissions and Odor Monitoring

Airborne fugitive particulate emissions at the nearest down wind property line will be measured by the Site Safety Officer on a continuous basis during waste handling activities. The measurements will be made using a portable particulate monitoring device manufactured by the Casella Corporation. The monitoring device is capable of detecting airborne particulate (PM-10) at concentrations ranging from 1 to 1000 micrograms per cubic meter (ug/m^3). Detected concentrations are logged within the instrument memory and can be retrieved using Microsoft Windows-based software provided by the manufacturer. Retrieved data can be imported into standard PC-based spreadsheet and database software for analysis and report presentation.

At a minimum, where the particulate monitoring device is used, the following information will be logged.

- Instrument type and detection range
- Control settings
- Reading locations
- Atmospheric conditions
- Calibration Records – To be performed a minimum of once per day

The data collected during monitoring will be used to guide site operations in a manner that is consistent, or due to the presence of heavy metal contaminants within the soil is more restrictive than those presented within the New York State Department of Environmental Conservation, DER-I0 Technical Guidance for Site Investigation and Remediation, Generic Community Air Monitoring Plan.

If the total downwind PM-10 particulate level is 150 micrograms per cubic meter (ug/m^3) greater than background (upwind perimeter) for the 15-minute period or if airborne dust is observed leaving the work area, then the handling activities must immediately stop, and the dust suppression techniques must be employed. Activities cannot resume until the mitigating measures result in a net downwind PM-10 particulate concentration below150 ug/m^3.

If, after implementation of dust suppression techniques, downwind PM - 10 particulate levels are greater than 150 ug/m^3 above the upwind level, work must be stopped and a re-evaluation of activities initiated. Work can resume provided that dust suppression measures and other controls are successful in reducing the downwind PM-IO particulate concentration to within 150 ug/m3 of the upwind level and in preventing visible dust migration.

Because the detection of odors is subjective, the Site Health and Safety Officer will be charged with the responsibility of making a determination if measures are required to abate odors. Since the contaminant concentrations in the soil/fill are generally below the odor threshold, the odor sources during the site will be the operation of diesel engines associated with hydraulic material handling and transportation.

4.3 Fugitive Dust Control Measures

To prevent the occurrence of fugitive emissions the following procedures will be implemented.

- A strict facility speed limit will be set at 15 miles per hour.
- Roads will be wetted using potable water.
- Media stockpiles over 500 cubic yards will be covered with plastic poly sheeting.
- Excavation and handling activities will be halted where winds exceed 40 miles per hour.
- Loading and mechanical screening of material will be performed within the central portions of the site as to provide maximum distance to the property lines.
- Media handled about the site will be covered while being transported within trucks.

4.4 Site Matrix for Protection Level Determinations

Action levels represent those conditions requiring an upgrade of personal protective equipment (PPE). The information presented below applies to the above chemical constituents. All air monitoring results should be logged in the Site Safety Log. The following tables provide for quick reference for each monitored parameter.

Ionization Detector Response

Photoionization Detector (PID)	
Concentrations (in ppm)	**Level of PPE Required/Procedure**
0.0 to 15.0	Level D
15.1 to 250.0	Level C
> 750.0	Immediately withdraw from the area

Combustible Gas Response

Combustible Gas Indicator (CGI)	
Results (% of LEL)	**Level of PPE Required/Procedure**
0.0 to 20.0	Level D - Continue with normal activity
Above 20.0	Discontinue all site restoration activities - Immediately withdraw from the area and implement emergency procedures presented in Section 11 of this document.

Particulate Detector Response

Real Time Particulate Detection Meter	
Results (mg/m3)	**Level of PPE Required/Procedure**
0.0 to 5.0	Continue with normal activity – Level D
>5.0	Level C Protection - Discontinue site activities – initiate dust control activities listed in Section 8.3 of this document

5. Work Zone Definitions

Work and support areas shall be established based on ambient air data and proposed work sites. They shall be established in order to contain contamination within the smallest areas possible and shall ensure that each employee has the proper PPE for the area or zone in which work is to be performed.

5.1 Exclusion Zone (EZ)

It is within this zone that the environmental remediation activities are performed. No one shall enter this zone unless the appropriate PPE is donned. The location of this zone will change as the ISCO activities are performed. The boundary of the EZ will be marked with cones and caution tapes.

5.2 Contaminant Reduction Zone (CRZ)

It is within this zone that the decontamination process is undertaken. Personnel and their equipment must be adequately decontaminated before leaving this zone for the support zone. This zone will be set up between the EZ (no less than 100 feet away) and the site boundary.

5.3 Support Zone (SZ)

The support zone is considered to be uncontaminated; as such, protective clothing and equipment are not required but should be available for use in emergencies. All equipment and materials are stored and maintained within this zone. Protective clothing is put on within the SZ before entering the EZ or the CRZ. The SZ will be established in a safe environment at least 50 feet away from the EZ.

6.Permanganate Neutralization Solutions

During the course of the application of permanganate, there is the chance that the neutralization and/or disposal of excess permanganate may be required. Regardless of whether the need is for the clean up and removal of a small spill, the neutralization of excess permanganate solution from equipment, the rinse water produced when cleaning buckets and drums or any other activity where excess permanganate may cause a concern, following a few simple rules will ensure that the process will be safe and easy.

If neutralization is required because of a spill, and the spill is a dry RemOx S product, it can be swept or shoveled and transferred to a clean, metal container. Dilute the product with water, and mix the solution until all the crystals are dissolved prior to neutralization.

If the spill is a liquid RemOx S solution, contain the liquid by diking or collecting and neutralize. If the spill is RemOx L, the first step is to contain or collect the spill. Prior to any neutralization, sodium permanganate MUST BE DILUTED with water to a concentration of 6% or less. Once the product has been diluted, it can be safely neutralized.

Permanganate solutions can be neutralized using the following solution which consists of products that can be purchased from a local food or drug store. This solution is especially effective for removal of brown stains on skin; however, it has also been used as a neutralization solution for small spills. It would not be economical for anything but the smallest volumes of dilute permanganate.

30 parts water: 40 parts white vinegar: 30 parts 3% hydrogen peroxide

Appendix A

Material Safety Data Sheet

RemOx® L
ISCO Reagent

EC- SAFETY DATA SHEET according to Regulation (EC) № 1907/2006 of the European Parliament and of the Council, of 18 December 2006 concerning REACH

Material Safety Data Sheet

Section 1 Chemical Product and Company Identification

PRODUCT NAME: RemOx® L ISCO Reagent **TRADE NAME:** RemOx® L ISCO Reagent	**Revision Date: April 2008**

USES OF SUBSTANCE: RemOx® L ISCO Reagent is a liquid oxidant recommended for in-situ and ex-situ remediation of sites that require a strong oxidant.

COMPANY NAME (Europe): CARUS NALON S.L.	**COMPANY ADDRESS:** Carus Nalon S.L. Barrio Nalon, s/n 33100 Trubia-Oviedo Espana, Spain **INFORMATION:** (34) 985-785-513 (34) 985-785-513 www.caruseurope.com (Web) carus@carusnalon.com (Email) **EMERGENCY TELEPHONE:** (34) 985-785-513
COMPANY NAME (US): CARUS CORPORATION	**COMPANY ADDRESS:** 315 Fifth Street Peru, IL 61354, USA **INFORMATION:** (815)-223-1500 www.caruscorporation.com (Web) salesmkt@caruscorporation.com (Email) **EMERGENCY TELEPHONE:** (800) 435 –6856 (USA) (800) 424-9300 (CHEMTREC, USA) (815-223-1500 (Other countries)

Section 2 Hazards Identification

1. Eye Contact
   RemOx® L ISCO Reagent is damaging to eye tissue on contact. It may cause burns that result in damage to the eye.
2. Skin Contact
   Momentary contact of solution at room temperature may be irritating to the skin, leaving brown stains. Prolonged contact is damaging to the skin.
3. Inhalation
   Acute inhalation toxicity data are not available. However, airborne concentrations of RemOx® L ISCO Reagent in the form of mist may cause irritation to the respiratory tract.
4. Ingestion
   RemOx® L ISCO Reagent if swallowed, may cause burns to mucous membranes of the mouth, throat, esophagus, and stomach.

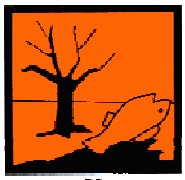
Section 3 Hazardous Ingredients

Material or Component	CAS No.	%	Hazard Data
Sodium Permanganate	10101-50-5	40	**PEL/C** 5 mg Mn per cubic meter of air **TLV-TWA** 0.2 mg Mn per cubic meter of air

HAZARD SYMBOLS:


O


Xn


N

RISK PHRASES:

8 Contact with combustibles may case fire.
22 Harmful if swallowed.
50/53 Very toxic to aquatic organisms, may cause long-term effects in the aquatic environment.

SAFETY PHRASES:

17 Keep away from combustible materials.
24/25 Avoid contact with skin and eyes.
26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice

Section 4 First Aid Measures

1. Eyes
   Immediately flush eyes with large amounts of water for at least 15 minutes holding lids apart to ensure flushing of the entire surface. Do not attempt to neutralize chemically. Seek medical attention immediately. Note to physician: Decomposition products are alkaline.
2. Skin
   Immediately wash contaminated areas with water. Remove contaminated clothing and footwear. (Caution: Solution may ignite certain textiles). Wash clothing and decontaminate footwear before reuse. Seek medical attention immediately if irritation is severe and persistent.
3. Inhalation
   Remove person from contaminated area to fresh air. If breathing has stopped, resuscitate and administer oxygen if readily available. Seek medical attention immediately.
4. Ingestion
   Never give anything by mouth to an unconscious or convulsing person. If person is conscious, give large quantities of water or milk. Seek medical attention immediately.

Section 5 Fire Fighting Measures

NFPA* HAZARD SIGNS:

Health Hazard 1 = Materials which under fire conditions would give off irritating combustion products. (less than 1 hour exposure) Materials which on the skin could cause irritation.
Flammability Hazard 0 = Materials that will not burn.
Reactivity Hazard 0 = Materials which in themselves are normally stable, even under fire exposure

conditions, and which are not reactive with water.

Special Hazard OX = Oxidizer

***National Fire Protection Association 704**

FIRST RESPONDERS:
Wear protective gloves, boots, goggles, and respirator. In case of fire, wear positive pressure breathing apparatus. Approach incident with caution. Use 2004 Emergency Response Guidebook (U.S. DOT RSPA, TC and STC). Guide No. 140. (http://hazmat.dot.gov/pubs/erg2004/erg2004.pdf).

FLASHPOINT	None
FLAMMABLE OR EXPLOSIVE LIMITS	Lower: Nonflammable Upper: Nonflammable
EXTINGUISHING MEDIA	Use large quantities of water. Water will turn pink to purple if in contact with RemOx® L ISCO Reagent. Dike to contain. Do not use dry chemicals, CO_2Halon® or foams.
SPECIAL FIREFIGHTING PROCEDURES	If material is involved in fire, flood with water. Cool all affected containers with large quantities of water. Apply water from as far as a distance as possible. Wear self-contained breathing apparatus and full protective clothing.
UNUSUAL FIRE AND EXPLOSION	Powerful oxidizing material. May decompose spontaneously if exposed to heat (135°C/275°F). May be explosive in contact with certain other chemicals (Section 10). May react violently with finely divided and readily oxidizable substances. Increases burning rate of combustible material. May ignite wood and cloth.

Section 6 Accidental Release Measures

PERSONAL PRECAUTIONS

Personnel should wear protective clothing suitable for the task. Remove all ignition sources and incompatible materials before attempting clean up.

ENVIRONMENTAL PRECAUTIONS:

Do not flush into sanitary sewer system or surface water. If accidental release into the environment occurs, inform the responsible authorities. Keep the product away from drains, sewers, surface and ground water and soil.

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED

Contain spill by collecting the liquid in a pit or holding behind a dam (sand or soil). Dilute to approximately 6% with water, and then reduce with sodium thiosulfate, a bisulfite or ferrous salt solution. The bisulfite or ferrous

salt may require some dilute sulfuric acid (10% w/w) to promote reduction. Neutralize with sodium carbonate to neutral pH, if acid was used. Decant or filter and deposit sludge in approved landfill. Where permitted, the sludge may be drained into sewer with large quantities of water. To clean contaminated floors, flush with abundant quantities of water into sewer, if permitted by federal, state, and local regulations. If not, collect water and treat as above.

Section 7 Handling and Storage

WORK/HYGIENIC PRACTICES

Wash hands thoroughly with soap and water after handling RemOx® L ISCO Reagent. Do not eat, drink or smoke when working with RemOx® L ISCO Reagent . Wear proper protective equipment. Remove clothing, if it becomes contaminated.

VENTILATION REQUIREMETNS

Provide sufficient mechanical and/or local exhaust to maintain exposure below the TLV/TWA.

CONDITIONS FOR SAFE STORAGE

Store in accordance with NFPA 430 requirements for Class II oxidizers. Protect containers from physical damage. Store in a cool, dry area in closed containers. Segregate from acids, peroxides, formaldehyde, and all combustible, organic, or easily oxidizable materials including antifreeze and hydraulic fluid.

Section 8 Exposure Controls and Personal Protection

RESPIRATORY PROTECTION

In cases where overexposure to mist may occur, the use of an approved NIOSH-MSHA mist respirator or an air supplied respirator is advised. Engineering or administrative controls should be implemented to control mist.

EYE

Faceshield, goggles, or safety glasses with side shields should be worn. Provide eyewash in working area.

GLOVES

Rubber or plastic gloves should be worn.

OTHER PROTECTIVE EQUIPMENT

Normal work clothing covering arms and legs, and rubber, or plastic apron should be worn. Caution: If clothing becomes contaminated, wash off immediately. Spontaneous ignition may occur with cloth or paper.

Section 9 Physical and Chemical Properties

APPEARANCE AND ODOR	Dark purple solution, odorless
BOILING POINT, 760 mm Hg	105 °C
VAPOR PRESSURE (mm Hg)	760 mm at 105ºC
SOLUBILITY IN WATER % BY SOLUTION	Miscible in all proportions
PERCENT VOLATILE BY VOLUME	61% (as water)
EVAPORATION RATE	Same as water
FREEZING POINT	-15.0 °C
SPECIFIC GRAVITY	1.36-1.39

pH	5-9
OXIDIZING PROPERTIES	Strong oxidizer. May ignite wood and cloth.
EXPLOSIVE PROPERTIES	Explosive in contact with sulfuric acid or peroxides, or readily oxidizable substances.

Section 10 Stability and Reactivity

STABILITY	Under normal conditions, the material is stable.
CONDITIONS TO AVOID could	Contact with incompatible materials or heat (135°C / 275ºF) result in violent exothermic chemical reaction.
INCOMPATIBLE MATERIALS	Acids, peroxides, formaldehyde, antifreeze, hydraulic fluids, and all combustible organic or readily oxidizable materials, including metal powders. With hydrochloric acid, toxic chlorine gas is liberated.
HAZARDOUS DECOMPOSITION PRODUCTS	When involved in a fire, liquid permanganate may form corrosive fumes.
CONDITIONS CONTRIBUTING TO HAZARDOUS POLYMERIZATION	Material is not known to polymerize.

Section 11 Toxicological Information

SODIUM PERMANGANATE: Acute oral LD_{50} not known.

1. Acute toxicity

Irritating to body tissue with which it comes into contact. No acute toxicity data is available for sodium permanganate. Toxicity is expected to be similar to that of potassium permanganate. The toxicity data for potassium permanganate is given below:

Ingestion:
LD 50 oral rat: 780 mg/kg male (14 days); 525 mg/kg female (14 days).
Harmful if swallowed. ALD: 10g. Ingestion may cause nausea, vomiting, sore throat, stomach-ache and eventually lead to a perforation of the intestine. Liver and kidney injuries may occur.

Skin contact:
LD 50 dermal no data available.
The product may be absorbed into the body through the skin. Major effects of exposure: severe irritation, brown staining of skin.

Inhalation:
LC 50 inhal. no data available.
The product may be absorbed into the body by inhalation. Major effects of exposure: respiratory disorder, cough.

2. Chronic toxicity

No known cases of chronic poisoning due to permanganates have been reported. Prolonged exposure, usually

over many years, to heavy concentrations of manganese oxides in the form of dust and fumes may lead to chronic manganese poisoning, chiefly involving the central nervous system.

3. Carcinogenicity
Sodium permanganate has not been classified as a carcinogen by ACGIH, NIOSH, OSHA, NTP, or IARC.

4. Medical Conditions Generally Aggravated by Exposure
Sodium permanganate solution will cause further irritation of tissue, open wounds, burns or mucous membranes.

Section 12 Ecological Information

Entry to the Environment
Permanganate has a low estimated lifetime in the environment, being readily converted by oxidizable materials to insoluble MnO_2.

Bioconcentration Potential
In non-reducing and non-acidic environments MnO_2 is insoluble and has a very low bioaccumulative potential.

Aquatic Toxicity
No data.

Section 13 Disposal Considerations

Waste Disposal

RemOx® L ISCO Reagent, once it becomes a waste, is considered a D001 hazardous (ignitable) waste. For disposal of RemOx® L ISCO Reagent solutions, follow procedures in Section 6 and deactivate the permanganate to insoluble manganese dioxide. Dispose of it in a permitted landfill. Contact Carus Chemical Company for additional recommendations.

Section 14 Transport Information

USA (land, D.O.T.)	**Proper Shipping Name:** 49 CFR172.101 Permanganates, inorganic, aqueous solution, n.o.s .(contains sodium permanganate **Hazard Class:** 49 CFR172.101….Oxidizer **ID Number:** 49 CFR172.101….UN 3214 **Packing Group:** 49 CFR172.101….II **Division:** 49 CFR172.101….5.1
European Labeling in accordance Road/Rail Transport (ADR/RID)	**ID Number:** UN 3214 **ADR/RID Class** 5.1 **Description of Goods:** Permanganates, inorganic, aqueous solution, n.o.s (contains sodium permanganate) **Hazard Identification No.** 50
European Labeling in accordance with EC directive (Water, I.M.O.)	**Proper Shipping Name:** Permanganates, inorganic, aqueous solution, n.o.s (contains sodium permanganate) **Hazard Class:** Oxidizer **ID Number:** UN 3214

	Packing Group:	II
	Division:	5.1
	Marine Pollutant:	No
European Labeling in accordance with EC directive (Air, I.C.A.O.)	**Proper Shipping Name:**	Permanganates, inorganic, aqueous solution, n.o.s (contains sodium permanganate)
	Hazard Class:	Oxidizer
	ID Number:	UN 3214
	Packing Group:	II
	Division:	5.1

Section 15 Regulatory Information (Sodium Permanganate)

TSCA	Listed in the Toxic Substances Control Act (TSCA) Chemical Substance Inventory.	
CERCLA	Not listed.	
RCRA	Oxidizers such as RemOx® L ISCO Reagent solution meet the criteria of ignitable waste. 40 CFR 261.21.	
SARA TITLE III Information		
	Section 302/303	Extremely hazardous substance: Not listed
	Section 311/312	Hazard categories: Fire, acute and chronic toxicity.
	Section 313	RemOx® L ISCO Reagent contains 40% manganese compounds as part of the chemical and is subject to the reporting requirements of Section 313 of Title III, Superfund Amendments and Reauthorization Act of 1986 and 40 CFR 372.
FOREIGN LIST	Canadian Non-Domestic Substance List , EINECS	

Section 16 Other Information

NIOSH	National Institute for Occupational Safety and Health
MSHA	Mine Safety and Health Administration
OSHA	Occupational Safety and Health Administration
NTP	National Toxicology Program
IARC	International Agency for Research on Cancer
PEL	Permissible Exposure Limit
C	Ceiling Exposure Limit
TLV-TWA	Threshold Limit Value-Time Weighted Average
CAS	Chemical Abstract Service
EINECS	Inventory of Existing Chemical Substances (European)

Chithambarathanu Pillai (S.O.F.)
April 2008

RemOx®S
ISCO Reagent

EC- SAFETY DATA SHEET according to EC directive 2001/58/EC
MATERIAL SAFETY DATA SHEET

Section 1 Chemical Product and Company Identification

PRODUCT NAME: RemOx® S ISCO Reagent **TRADE NAME:** RemOx® S ISCO Reagent	**Revised Date: January 2006**
USES OF SUBSTANCE: RemOx® S ISCO Reagent is an oxidant recommended for applications that require a strong oxidant.	

COMPANY NAME (Europe): CARUS NALON S.L.	**COMPANY ADDRESS:** Carus Nalon S.L. Barrio Nalon, s/n 33100 Trubia-Oviedo Espana, Spain **INFORMATION:** (34) 985-785-513 (34) 985-785-513 www.caruseurope.com (Web) carus@carusnalon.com (Email) **EMERGENCY TELEPHONE:** (34) 985-785-513
COMPANY NAME (US): CARUS CHEMICAL COMPANY	**COMPANY ADDRESS:** 315 Fifth Street Peru, IL 61354, USA **INFORMATION:** (815)-223-1500 www.caruschem.com (Web) salesmkt@caruschem.com (Email) **EMERGENCY TELEPHONE:** (800) 435 –6856 (USA) (800) 424-9300 (CHEMTREC, USA) (815-223-1500 (Other countries)

Section 2 Hazardous Ingredients

MATERIAL OR COMPONENT	CAS NO.	EINECS	HAZARD DATA
Potassium Permanganate	7722-64-7	231-760-3	**PEL/C** 5 mg Mn per cubic meter of air **TLV-TWA** 0.2 mg Mn per cubic meter of air

HAZARD SYMBOLS:


O


Xn


N

RISK PHRASES:

8 Contact with combustibles may case fire.
22 Harmful if swallowed.
50/53 Very toxic to aquatic organisms, may cause long-term effects in the aquatic environment.

SAFETY PHRASES:

60 This material and its container must be disposed of as hazardous waste.
61 Avoid releases to the environment. Refer to special instructions / Safety data sheet.

Section 3 Hazards Identification

1. **EYE CONTACT**
   RemOx® S ISCO Reagent is damaging to eye tissue on contact. It may cause severe burns that result in damage to the eye.

2. **SKIN CONTACT**
   Contact of solutions at room temperature may be irritating to the skin, leaving brown stains. Concentrated solutions at elevated temperature and crystals are damaging to the skin.

3. **INHALATION**
   Acute inhalation toxicity data are not available. However, airborne concentrations of RemOx® S ISCO Reagent the form of dust or mist may cause damage to the respiratory tract.

4. **INGESTION**
   RemOx® S ISCO Reagent , if swallowed, may cause severe burns to mucous membranes of the mouth, throat, esophagus, and stomach.

Section 4 First Aid Measures

1. **EYES**
   Immediately flush eyes with large amounts of water for at least 15 minutes holding lids apart to ensure flushing of the entire surface. Do not attempt to neutralize chemically. Seek medical attention immediately.
   Note to physician: Soluble decomposition products are alkaline. Insoluble decomposition product is brown manganese dioxide.

2. **SKIN**
   Immediately wash contaminated areas with water. Remove contaminated clothing and footwear. Wash clothing and decontaminate footwear before reuse. Seek medical attention immediately if irritation is severe or persistent.

3. **INHALATION**
   Remove person from contaminated area to fresh air. If breathing has stopped, resuscitate and administer oxygen if readily available. Seek medical attention immediately.

4. **INGESTION**
   Never give anything by mouth to an unconscious or convulsing person. If person is conscious, give large quantities of water. Seek medical attention immediately.

Section 5 Fire Fighting Measures

NFPA* HAZARD SIGNS		
Health Hazard	1 =	Materials which under fire conditions would give off irritating combustion products. (less than 1 hour exposure) Materials that on the skin could cause irritation.
Flammability Hazard	0 =	Materials that will not burn.
Reactivity Hazard	0 =	Materials which in themselves are normally stable, even under fire exposure conditions, and which are not reactive with water.
Special Hazard	OX =	Oxidizer

***National Fire Protection Association 704 (USA)**

FIRST RESPONDERS:	Wear protective gloves, boots, goggles, and respirator. In case of fire, wear positive pressure breathing apparatus. Approach incident with caution.
FLASHPOINT	None
FLAMMABLE OR EXPLOSIVE LIMITS	Lower: Nonflammable Upper: Nonflammable
EXTINGUISHING MEDIA	Use large quantities of water. Water will turn pink to purple if in contact with RemOx® S ISCO Reagent. Dike to contain. Do not use dry chemicals, CO_2 Halon® or foams.
SPECIAL FIREFIGHTING PROCEDURES	If material is involved in fire, flood with water. Cool all affected containers with large quantities of water. Apply water from as far a distance as possible. Wear self-contained breathing apparatus and full protective clothing.
UNUSUAL FIRE AND EXPLOSION	Powerful oxidizing material. May decompose spontaneously if exposed to heat (150°C / 302°F). May be explosive in contact with certain other chemicals (Section 10). May react violently with finely divided and readily oxidizable substances. Increases burning rate of combustible material.

Section 6 Accidental Release Measures

PERSONAL PRECAUTIONS:

Ensure adequate ventilation. Avoid dust formation. Avoid inhalation and contact with eyes and skin. Personnel should wear protective clothing suitable for the task. Remove all ignition sources and incompatible materials before attempting clean up.

ENVIRONMENTAL PRECAUTIONS:
Do not flush into sanitary sewer system or surface water. If accidental release into the environment occurs, inform the responsible authorities. Keep the product away from drains, sewers, surface and ground water and soil.

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:
Clean up spills immediately by sweeping or shoveling up the material. Do not return spilled material to the original container – transfer to a clean metal drum. To clean contaminated surfaces or floors, flush with abundant quantities of water into sewer, if permitted by federal, state, and local regulations - if not, collect water and treat chemically (Section 13).

Section 7 Handling and Storage

WORK/HYGIENIC PRACTICES
Wash hands thoroughly with soap and water after handling RemOx® S ISCO Reagent. Do not eat, drink or smoke when working with RemOx® S ISCO Reagent. Wear proper protective equipment. Remove clothing, if it becomes contaminated.

VENTILATION REQUIREMETNS
Provide sufficient mechanical and/or local exhaust to maintain exposure below the TLV/TWA.

CONDITIONS FOR SAFE STORAGE
Store in accordance with NFPA 430 requirements for Class II oxidizers. Protect containers from physical damage. Store in a cool, dry area in closed containers. Segregate from acids, peroxides, formaldehyde, and all combustible, organic, or easily oxidizable materials including antifreeze and hydraulic fluid.

Section 8 Exposure Controls and Personal Protection

RESPIRATORY PROTECTION
In cases where overexposure to dust may occur, the use of an approved NIOSH-MSHA dust respirator or an air supplied respirator is advised. Engineering or administrative controls should be implemented to control dust

EYE
Faceshield, goggles, or safety glasses with side shields should be worn. Provide eyewash in working area.

GLOVES
Rubber or plastic gloves should be worn.

OTHER PROTECTIVE EQUIPMENT
Normal work clothing covering arms and legs, and rubber, or plastic apron should be worn.

Section 9 Physical and Chemical Properties

APPEARANCE AND ODOR	Dark purple solid with metallic luster, odorless
BOILING POINT, 760 mm Hg	Not applicable
VAPOR PRESSURE (mm Hg)	Not applicable
SOLUBILITY IN WATER % BY SOLUTION	6% at 20°C (68°F) and 20% at 65°C (149°F)
PERCENT VOLATILE BY VOLUME	Not volatile
EVAPORATION RATE	Not applicable
MELTING POINT	Starts to decompose with evolution of oxygen (O_2) at temperatures above 150°C (302°F). Once initiated, the decomposition is exothermic and self-sustaining.
SPECIFIC GRAVITY	2.7 at 20°C (68°F)
BULK DENSITY	Approximately 1.45 - 1.6 kg / l
VAPOR DENSITY (AIR=1)	Not applicable
OXIDIZING PROPERTIES	Strong oxidizer

Section 10 Stability and Reactivity

STABILITY	Under normal conditions, the material is stable.
CONDITIONS TO AVOID	Contact with incompatible materials or heat (150°C / 302ºF) could result in violent exothermic chemical reaction.
INCOMPATIBLE MATERIALS	Acids, peroxides, formaldehyde, anti-freeze, hydraulic fluids and all combustible organic or readily oxidizable inorganic materials including metal powders. With hydrochloric acid, chlorine gas is liberated.
HAZARDOUS DECOMPOSITION PRODUCTS	When involved in a fire, RemOx® S ISCO Reagent may liberate corrosive fumes.
CONDITIONS CONTRIBUTING TO HAZARDOUS POLYMERIZATION	Material is not known to polymerize.

Section 11 Toxicological Information

POTASSIUM PERMANGANATE:

1. ACUTE TOXICITY

INGESTION:
LD 50 oral rat: 780 mg/kg male (14 days); 525 mg/kg female (14 days).
Harmful if swallowed. ALD: 10g. Ingestion may cause nausea, vomiting, sore throat, stomach-ache and eventually lead to a perforation of the intestine. Liver and kidney injuries may occur.

SKIN CONTACT:
LD 5O dermal no data available.
The product may be absorbed into the body through the skin. Major effects of exposure: severe irritation, brown staining of skin.

INHALATION:
LC 5O inhalation: No data available.
The product may be absorbed into the body by inhalation. Major effects of exposure: respiratory disorder, cough.

2. CHRONIC TOXICITY
No known cases of chronic poisoning due to permanganates have been reported. Prolonged exposure, usually over many years, to heavy concentrations of manganese oxides in the form of dust and fumes may lead to chronic manganese poisoning, chiefly involving the central nervous system.

3. CARCINOGENICITY
Potassium permanganate has not been classified as a carcinogen by ACGIH, NIOSH, OSHA, NTP, or IARC.

4. MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE
Potassium permanganate solution will cause further irritation of tissue, open wounds, burns or mucous membranes.

Section 12 Ecological Information

ENTRY TO THE ENVIRONMENT

Potassium permanganate has a low estimated lifetime in the environment, being readily converted by oxidizable materials to insoluble MnO_2.

BIOCONCENTRATION POTENTIAL

In non-reducing and non-acidic environments, MnO_2 is insoluble and has a very low bioaccumulative potential.

AQUATIC TOXICITY

The toxicity data for Potassium permanganate is given below:

Rainbow trout, 96 hour LC_{50}:	1.8 mg/L
Bluegill sunfish, 96 hour LC_{50}:	2.3 mg/L
Milk fish (Chanos Chanos)/ 96 hour LC_{50}:	>1.4mgl

Section 13 Disposal Considerations

Offer surplus and non-recyclable product or solutions to a licensed disposal company.

Reduce RemOx® S ISCO Reagent in aqueous solutions with sodium thiosulfate, a bisulfite or ferrous salt solution. The bisulfite or ferrous salt may require some dilute sulfuric acid (10% w/w) to promote reduction. Neutralize with sodium carbonate to neutral pH, if acid was used. Decant or filter and deposit sludge in approved landfill. Where permitted, the sludge may be drained into sewer with large quantities of water. Contact Carus Chemical Company for additional recommendations.

Packaging materials must be triple rinsed to remove all RemOx® S ISCO Reagent prior to re-cycling or disposal.

Section 14 Transport Information

USA (land, D.O.T.)	**Proper Shipping Name:**	49 CFR172.101….Potassium Permanganate
	Hazard Class:	49 CFR172.101….Oxidizer
	ID Number:	49 CFR172.101….UN 1490
	Packing Group:	49 CFR172.101….II
	Division:	49 CFR172.101….5.1
European Labeling in accordance Road/Rail Transport (ADR/RID)	**ID Number:**	UN 1490
	ADR/RID Class	5.1
	Description of Goods:	Potassium Permanganate
	Hazard Identification No.	50
European Labeling in accordance with EC directive (Water, I.M.O.)	**Proper Shipping Name:**	Potassium Permanganate
	Hazard Class:	Oxidizer
	ID Number:	UN 1490
	Packing Group:	II
	Division:	5.1
	Marine Pollutant:	No

Section 14 Transport Information (contd.)

European Labeling in accordance with EC directive (Air, I.C.A.O.)	**Proper Shipping Name:** Potassium Permanganate **Hazard Class:** Oxidizer **ID Number:** UN 1490 **Packing Group:** II **Division:** 5.1

Section 15 Regulatory Information

EUROPEAN AND INTERNATIONAL REGULATIONS:

MARKINGS ACCORDING TO EU GUIDELINES:

The product has been classified and marked in accordance with EU directives/ordinances on hazardous materials.

CHEMICAL NAME	CAS NO.	EINECS	UN NUMBER
Potassium Permanganate	7722-64-7	231-760-3	UN 1490

CODE LETTER AND HAZARD DESIGNATION OF THE PRODUCT:

Oxidizer

Harmful

Dangerous to the Environment

RISK PHRASES:

8 Contact with combustibles may case fire.
22 Harmful if swallowed.
50/53 Very toxic to aquatic organisms, may cause long-term effects in the aquatic environment.

SAFETY PHRASES:

60 This material and its container must be disposed of as hazardous waste.
61 Avoid releases to the environment. Refer to special instructions / Safety data sheet.

Section 15 Regulatory Information (contd.)

US FEDERAL REGULATIONS:

CHEMICAL INVENTORY STATUS – PART 1

Ingredient	CAS. NO.	TSCA	EC	Japan	Australia
Potassium Permanganate	7722-64-7	Yes	Yes		

CHEMICAL INVENTORY STATUS – PART 2 --- CANADA---

Ingredient	CAS. NO.	Korea	DSL	NDSL	PHIL
Potassium Permanganate	7722-64-7	No	Yes		

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulation (CPR, Canada) and the MSDS contains all of the information required by the CPR.

FEDERAL, STATE & INTERNATIONAL REGULATIONS – PART 1

		SARA 302		SARA 313	
Ingredient	CAS. NO.	RQ	TPQ	List	Chemical Catg.
Potassium Permanganate	7722-64-7	N/A	N/A	Yes (Manganese compounds)	Yes

FEDERAL, STATE & INTERNATIONAL REGULATIONS – PART 2

Ingredient	CAS. NO.	CERCLA	RCRA	TSCA 8(d)
Potassium Permanganate	7722-64-7	Yes (RQ =100 lbs)	D001	No

Ingredient	CAS. NO.	CWC	TSCA 12(b)	CDTA	SARA 311/312
Potassium Permanganate	7722-64-7	No	No		4545 Kg

Ingredient	CAS. NO.	Acute	Chronic	Fire	Pressure	Reactivity	Pure/Liquid
Potassium Permanganate	7722-64-7	Yes	Yes	Yes	No	No	Pure

Ingredient	CAS. NO.	Australian Hazchem Code	Poison Schedule	WHMIS
Potassium Permanganate				C, D2B

Section 16 Other Information

NIOSH	National Institute for Occupational Safety and Health
MSHA	Mine Safety and Health Administration
OSHA	Occupational Safety and Health Administration
NTP	National Toxicology Program
IARC	International Agency for Research on Cancer
PEL	Permissible Exposure Limit
C	Ceiling Exposure Limit
TLV-TWA	Threshold Limit Value-Time Weighted Average
CAS	Chemical Abstract Service
EINECS	Inventory of Existing Chemical Substances (European)

Chithambarathanu Pillai (S.O.F.)
January 2006

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Good Chemistry at Work