FIRST QUARTER 2008
WASTE DISCHARGE REQUIREMENTS
MONITORING REPORT
BIORECIRCULATION PILOT TEST,
FORMER BUILDING 1/36

Compliance File CI-9310
Order No. R4-2007-0040

Boeing Former C-6 Facility
19503 South Normandie Avenue
Los Angeles, California

April 29, 2008

AVOCET
ENVIRONMENTAL, INC.

538

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19503 South Normandie Avenue
Los Angeles, California

April 29, 2008

PREPARED FOR

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Building 851, M/C D851-0097
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Project No. 1155.006

AVOCET
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April 29, 2008 Project No. 1155.006

Information Technology Unit
CALIFORNIA REGIONAL WATER QUALITY
CONTROL BOARD, LOS ANGELES REGION
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First Quarter 2008
Waste Discharge Requirements (WDR) Monitoring Report
Biorecirculation Pilot Test, Former Building 1/36
Compliance File CI-9310, Order No. R4-2007-0040
Boeing Former C-6 Facility, Building 1/36
19503 South Normandie Avenue
Los Angeles, California

Dear Sir / Madam:

Enclosed is the First Quarter 2008 Waste Discharge Requirements Monitoring Report for the Biorecirculation Pilot Test at the subject site. If you have any questions or require additional information, please do not hesitate to call.

Respectfully submitted,

AVOCET ENVIRONMENTAL, INC.

Michael Rendina, P.G., C.Hg.
Principal

MAR:sh
Enclosure
cc: Ms. Ana Townsend – LARWQCB (transmittal only)
Mr. Mario Stavale – Boeing Corporate Real Estate
Ms. Jennifer Wiley – The Boeing Company (PDF)
Mr. Robert Scott – The Boeing Company (PDF)
Mr. Joe Weidmann – Haley & Aldrich (PDF)
Mr. Ravi Subramanian – CDM (PDF)

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LIST OF ABBREVIATIONS AND ACRONYMS

APT	aquifer performance test
CRE	Boeing Corporate Real Estate
CDM	Camp Dresser McKee, Inc.
DHC	Dehalococcoides bacteria
DHG	dissolved hydrocarbon gas
DO	dissolved oxygen
gpm	gallon per minute
IDW	investigation-derived waste
ml	milliliter
MRP	Monitoring and Reporting Program
LARWQCB	California Regional Water Quality Control Board, Los Angeles Region
ORP	oxidation reduction potential
ppm	part per million
qPCR	Quantitative Polymerase Chain Reaction test
TDS	total dissolved solids
TOC	total organic carbon
VFA	volatile fatty acid
VOC	volatile organic compound
WDR	Waste Discharge Requirements

1.0 INTRODUCTION

On behalf of Boeing Corporate Real Estate (CRE), Avocet Environmental, Inc. (Avocet) is submitting this Waste Discharge Requirements (WDR) monitoring report to the California Regional Water Quality Control Board, Los Angeles Region (LARWQCB) for the first quarter of 2008 pursuant to WDR Order Number R4-2007-0040 (the WDR Order), Compliance File CI-9310 (LARWQCB, February 15, 2008). This is a revised WDR Order prepared in response to the submission of the following documents to the LARWQCB:

> *Camp Dresser McKee, Inc., January 11, 2008, Addendum No. 2 to Building 1/36 (Parcel C) Source-Area Groundwater In-Situ Reactive Zone Pilot Study Workplan (Work Plan), Request to Include Well WCC_06S as a Contingency Extraction Well.*
>
> *Camp Dresser McKee, Inc., January 25, 2008, Addendum No. 2 to the Building 2 In-Situ Reactive Zone Pilot Test Workplan, C-Sand Bioremediation Amendment Injections.*

The revised WDR Order includes the following significant changes to the Monitoring and Reporting Program (MRP):

- Allows monitoring well WCC_06S to be used as a contingency extraction well for the Building 1/36 biorecirculation pilot study.
- Subdivided the Building 1/36 Group A (Amendment Points) and Group B (Monitoring Wells) wells into Groups A1 and A2 and B1 and B2. The Group A1 wells are the primary amendment wells and the Group A2 wells are backup amendment points. The revised WDR Order requires monitoring of only the B1 wells when donor is introduced to the A1 points.
- Included MRP requirements for periodic slug injections of electron donor and bioaugmentation into C-Sand amendment wells in the Building 2 area, including a baseline monitoring requirement performed in March 2008. WDR activities in the Building 2 area will be addressed at the end of the second quarter of 2008.

The purpose of this report is to provide a summary of bioremediation and groundwater monitoring activities performed at the Former Building 1/36 area of the Former C-6 Facility located at 19503 South Normandie Avenue in Los Angeles, California (the site). The location of the site is shown in Figure 1. The site layout and the monitoring wells of interest are shown in Figure 2. It should be noted that although quarterly reporting under the WDR Order was initiated in July 2007, startup of the biorecirculation system using whey amendment was postponed to late December 2007, after well redevelopment and aquifer performance testing (APT) demonstrated that groundwater production rates were sufficient to begin Biorecirculation

Pilot Test activities (Avocet, January 29, 2008). Post-injection WDR monitoring was thereby initiated in January 2008.

During the first quarter of 2008, the following activities were performed:

- Continuation of the Biorecirculation Pilot Test using whey as the amendment. Testing included extraction, injection, and recirculation using water from extraction well EWB001 and water generated during the fourth quarter of 2007 from the APTs conducted at extraction well EWB001 and Well WCC_06S.

- Implementation of biofouling mitigation measures including flushing/cleaning of Biorecirculation Pilot Test injection wells and amendment conveyance piping, and modifications to the injection well wellheads.

- Monthly WDR monitoring conducted in January and February 2008. These events constitute Months 1 and 2 of six overall consecutive monthly monitoring events.

- Quarterly WDR sampling event conducted in March 2008. This event constitutes Month 3 of the six consecutive monthly monitoring events.

Overall, 14 groundwater wells are monitored based on the WDR Order. These wells are grouped into six categories as follows:

- Group A1 Wells: AW0066UB and AW0067UB
- Group A2 Wells: AW0064UB and AW0065UB
- Group B1 Wells: AW0075UB, AW0076UB, AW0077UB, EWB002, & AW0073C
- Group B2 Wells: WCC_06S and AW0074UB
- Group C Wells: TMW_07 and WCC_12S
- Group D Well: AW0055UB

Although not included as part of the monitoring program, Well EWB001 is currently being used for extraction as part of the Biorecirculation Pilot Test program.

The specifics regarding monthly and quarterly WDR sampling are addressed in Section 2.0, and a brief evaluation of the WDR monitoring data is presented in Section 3.0. Amendment and related activities associated with the Biorecirculation Pilot Test are presented in Section 4.0. Implementation of biofouling control measures and injection wellhead modifications are discussed in Section 5.0. Anticipated future activities are outlined in Section 6.0. All of the information presented in this WDR monitoring report regarding amendment and related activities and biofouling control methods was obtained from Camp Dresser McKee, Inc. (CDM).

2.0 FIRST QUARTER 2008 WDR GROUNDWATER MONITORING

During the first quarter of 2008, two monthly monitoring events, in January and February 2008, and one quarterly monitoring event, in March 2008, were conducted. Groundwater monitoring included depth to water and total well depth gauging, low-flow well purging, groundwater sampling, and chemical analysis of multiple parameters. Each of these activities is described below.

2.1 WATER LEVEL MEASUREMENTS

Prior to groundwater sampling, each WDR well scheduled for groundwater level measurements was gauged for depth to water and total depth on January 29, February 26, and March 24, 2008. Well completion details for all WDR wells are provided in Table 1 and the depth to water measurements are summarized in Table 2. Wells AW0066UB and AW0067UB were not gauged in January and February 2008 due to amendment injection occurring at the time of monitoring.

During the quarterly WDR monitoring event in March 2008 water levels were gauged for all site wells, including the WDR wells, in conjunction with the annual 2008 site-wide monitoring program. The groundwater elevation contours for all site wells screened in the B-Sand are shown in Figure 3. The average hydraulic gradient in the B-Sand across the site is approximately 0.0008 ft/ft. As shown in Figure 3, groundwater flow direction in the B-Sand is generally to the south. The groundwater contours depict a localized groundwater mound surrounding the amendment injection wells, as is expected for recirculation activities.

2.2 WELL PURGING AND GROUNDWATER SAMPLING

All monitoring wells were purged for sampling using the low-flow (minimal drawdown) method. A QED low-flow bladder pump was used to purge each well prior to collecting the samples. A QED Water Quality Monitoring System with a flow-through cell was used to record field water quality parameters (i.e., temperature, pH, specific conductance, oxidation reduction potential [ORP], and dissolved oxygen [DO]) during the purging process. A Lamotte 2020 turbidimeter was used to record turbidity during the purging process for the February and March monitoring events. Stabilized field water quality indicator parameters are summarized in Table 3 and the Groundwater Sampling Data Sheets are included in Appendix A.

After stabilization of the indicator parameters, and on completion of purging, ferrous iron testing was performed at each well using a HACH DR/890 Colorimeter. The results of the ferrous iron testing are included in Table 3. The stabilized QED measurement of DO was confirmed for approximately 10 percent of the wells using a CHEMetrics, Inc. test kit. Groundwater samples were then collected in laboratory-supplied containers that were properly labeled and immediately placed on ice in a cooler. The samples were submitted to appropriately certified environmental testing laboratories following chain-of-custody procedures.

2.3 GROUNDWATER SAMPLE ANALYSES

The laboratories were requested to analyze the samples for:

- Volatile organic compounds (VOCs) using EPA Method 8260B. In addition to the WDR wells sampled as part of the WDR monitoring program, in March 2008, WDR well WCC_06S and extraction well EWB001 were sampled and tested for VOCs as part of the site-wide monitoring program.
- Total organic carbon (TOC) using EPA Method 9060.
- Volatile fatty acids (VFAs) using IC Method 8M23G (Microseeps, Inc., Pittsburg, Pennsylvania).
- Dissolved hydrocarbon gases (DHGs: ethane, ethane, and methane) using RSK 175.
- Dissolved minerals (sulfate, nitrate, nitrite, and chloride) using EPA Method 300 Series.
- Total alkalinity using EPA Method 310.
- Total dissolved solids (TDS) using EPA Method 160.1. This test was conducted for the Group B1 and B2 wells during the first monthly monitoring event in January 2008 and for the Group C and D wells during the quarterly monitoring event in March 2008.
- Quantitative Polymerase Chain Reaction (qPCR) assay for the Dehalococcoides (DHC) 16S rRNA gene and functional genes tceA, bvcA, and vcrA (North Wind, Inc., Pocatello, Idaho). This assay was conducted for the Group B1 and B2 wells during the first monthly monitoring event in January 2008 and for the Group B1 wells during the quarterly monitoring event in March 2008.

The laboratory analytical results for the first quarter 2008 sampling events are summarized in Tables 4 through 9. Table 4 summarizes the prevalent VOC analytical results (compounds without reported or estimated concentrations are not included in the table for simplicity). The DHG results are presented in Table 5, Table 6 lists the TOC results, VFA results are summarized in Table 7, Table 8 lists the inorganic anion results, and the results of DHC bacteria and functional genes analyses are summarized in Table 9. Each of these tables also includes baseline sampling results from monitoring conducted in 2007. Laboratory analytical reports for the first quarter 2008 WDR monitoring events, with associated chain-of-custody documentation, are provided in Appendix B.

3.0 DATA EVALUATION

The results of the WDR sampling data to date indicate that the pilot test has significantly stimulated degradation of the key VOCs at the site. In the three months since the start of amendment injections, evidence of significant degradation of key VOCs is apparent in Well EWB002, located approximately 20 feet downgradient of the amendment wells, and, to a lesser degree, in Well AW0076UB, situated about 75 feet downgradient of the amendment wells.

A comparison of the pre-injection (baseline) and post-injection data for the WDR monitoring wells also indicates that, with the exception of desired increases in total organic carbon (TOC) and Dehalococcoides bacteria, the amendment injections have not significantly impacted water quality beneath the pilot test area. The impacts that are documented are localized, expected to be of short-term duration, and will not impact any existing or prospective future uses of groundwater. Comparison of pre-injection (baseline) and post-injection groundwater quality data from wells located downgradient (TWM_07 and WCC_12S) and upgradient (AW0055UB) of the pilot test area indicate that no contaminants associated with amendment activities are migrating away from the test area.

4.0 AMENDMENT ACTIVITIES

During the first quarter of 2008, the Biorecirculation Pilot Test was conducted using extracted water from the following two sources:

- Extraction well EWB001
- Purge water from extraction well EWB001 and monitoring well (proposed extraction well) WCC_06S generated during the fourth quarter of 2007 from APTs that has been temporarily stored in Baker tanks.

During January and until February 25, 2008, the pilot test was operated with extracted water from Well EWB001. Following extraction, the water was appropriately mixed with whey (electron donor) prior to injection during approximately 10 percent of the time the system was operational. The amendment solution (average concentration of 3 percent) was then injected into amendment wells AW0066UB and AW0067UB with flow rates ranging from 2 to 6 gallons per minute (gpm), with an average flow rate of approximately 3 to 3.5 gpm. During the periods of non-whey injection, the system was operated on a continuous recirculation basis with only the extracted water from EWB001 (average of 3 gpm) reinjected into amendment wells AW0066UB and AW0067UB.

From February 26 through 28, 2008, the system was operated with the APT water treated with approximately 3 percent whey solution and injected into Wells AW0066UB and AW0067UB at total flow rates of approximately 5 gpm for approximately 22 percent of the time the system was operational (approximately 16 hours over these three days).

The system was then shut down on February 29, 2008 to evaluate and implement options to address biofouling observed in the injection wells and the amendment conveyance piping. Biofouling mitigation measures are discussed in Section 5.0.

The system was restarted on March 26, 2008 and was operational through the end of the quarter. During this period, APT water was treated through the pilot system with approximately 2.7 percent whey solution and injected into Wells AW0066UB and AW0067UB at total flow rates of approximately 6.5 gpm for approximately 25 percent of the time the system was operational (22 hours over four days). During the remaining time period between March 26 and 31, 2008, the system was operated on a continuous recirculation basis with only the extracted water from extraction well EWB001 (average of 3 gpm) reinjected into Wells AW0066UB and AW0067UB. One shutdown of the system occurred for approximately 16 hours on March 30, 2008, which was caused by an electrical fault.

During the first quarter of 2008, a total of 7,547 pounds (dry weight) of electron donor (28,952 gallons as solution) was injected into Wells AW0066UB and AW0067UB. From December 2007 through the end of the first quarter of 2008, the total amount of electron donor

injected was 7,778 pounds (40,486 gallons as solution). The dates and quantities of electron donor injection are summarized in Table 10.

5.0 BIOFOULING MITIGATION MEASURES

During system operation in February 2008, biofouling was observed in the system piping and injection wells downstream of the whey mixer. High injection pressures were observed at the wellheads for Amendment Wells AW0066UB and AW0067UB, and the presence of biofilm was observed in the injection wells, wellheads, and conveyance piping. As an initial remedy to reduce the biofouling, high-flow flushing of the system was performed using extracted water from Well EWB001 and city potable water, with the resultant rinse water stored in the onsite Baker tank. Following shutdown of the system on February 28, 2008, CDM took additional steps to mitigate and control the biofouling. These steps are summarized below:

- For Wells AW0066UB and AW0067UB, the conveyance piping between the whey mixer and the wells was dosed with approximately 1.5 gallons of commercial bleach and allowed to sit for approximately 24 hours and then flushed with over 240 gallons of city potable water. The resultant rinsate water was initially turbid and yellow. By the end of the flushing process, however, the water appeared clear. All rinsate water was collected in a vacuum truck and appropriately disposed of as described below.

- Wells AW0066UB and AW0067UB were both dosed with approximately 0.25 gallon of LBA® (glycolic acid) and agitated for approximately 20 minutes with a surge block. After allowing the LBA® to sit for approximately 48 hours, each well was equipped with a stinger and approximately 150 gallons of water (total) were removed from Wells AW0066UB and AW0067UB using a vacuum truck. Following this procedure, the pH in both wells rebounded to within 0.5 standard units of the pre-LBA® measured pH.

- After treatment with LBA®, Wells AW0066UB and AW0067UB were both dosed with 500 milliliters (ml) of commercial bleach. After allowing the bleach to sit for approximately 24 hours, the wells were fitted with stingers and approximately 150 gallons were purged from each of the wells using a vacuum truck. Following this procedure, the chlorine content in Well AW0067UB was measured to be less than 1 part per million (ppm). LBA® residuals were considered effectively removed from Well AW0066UB as the well was purged dry.

- System control components, such as control valves, were disassembled, inspected, and cleaned as needed. Functional testing was performed on the system to verify proper control and hydraulic capacities.

- The wellheads for injection wells AW0064UB through AW0067UB were modified to improve injection efficiency and reduce the potential for biofouling. Specifically, the well boxes for each of these four injection wells were removed and replaced with larger well boxes in order to accommodate piping

modifications. Additional conveyance piping, consisting of 3/4-inch-diameter PVC, was installed inside the 2-inch-diameter well casing of each injection well. The piping was adapted to the existing conveyance piping and extended from the top of the casings to approximately 5 feet below the static water table in each well. This configuration is intended to increase the injection efficiency of the electron donor solution into the wells by minimizing dissolved oxygen that could be introduced into the process stream and, consequently, the potential for biofouling. Additionally, air release valves were installed at the wellheads to allow air and any potential gas from the bioremediation process to escape, but not process water.

6.0 INVESTIGATIVE DERIVED WASTE

Investigation-derived waste (IDW) generated during the pilot test activities includes purge and decontamination water created by WDR sampling and water produced during biofouling mitigation measures. The purge water generated during groundwater monitoring activities was placed within an onsite aboveground poly tank with secondary containment located in the treatment compound pending profiling and final disposition. Approximately 210 gallons of purge and decontamination water were generated during the January, February, and March monitoring events.

A total of 1,061 gallons of water was generated from the well refurbishment and pipe and component cleaning activities. From March 18 to March 20, 2008, the water was removed from the site and transported to Crosby & Overton, in Long Beach, California, for disposal as non-RCRA hazardous waste. Copies of the waste manifests are provided in Appendix C.

7.0 FUTURE ACTIVITIES

Activities planned or anticipated for the second quarter of 2008 include:

- Continued operation of the biorecirculation system using water extracted from Well EWB001 and stored APT water (from EWB001 and WCC_06S), amendment with donor followed by injection into Wells AW0066UB and AW0067UB. The APT water treatment and injection will be completed in April.

- As additional groundwater production is needed, Well WCC_06S, functioning as an extraction well, will be incorporated into the recirculation system on a temporary basis (in the beginning), per the revised WDR Order, to augment the flow from extraction well EWB001.

- Bioaugmentation, as appropriate.

- Perform evaluation of the monitoring data on a continual basis during system operation to determine if the objectives of the pilot test (i.e., establishing proof-of-concept) are being met.

- Commence C-Sand bioremediation amendment slug injections in April 2008 at the Former Building 2 area of the site per the revised WDR Order, which was approved by the LARWQCB on February 15, 2008.

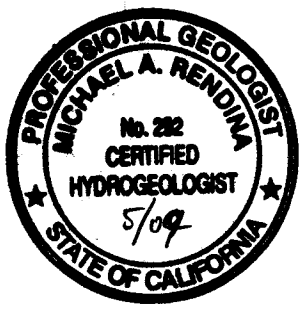
- Per the WDR Permit, the fourth of six monthly post-injection WDR groundwater monitoring events will be conducted in April 2008, with the fifth monthly event conducted in May 2008 and the final monthly event conducted during the quarterly monitoring event in June 2008, followed by quarterly and semiannual events.

- The next quarterly WDR report will be submitted on or before July 31, 2008 and will report the results of the second quarter 2008 pilot test activities and the results of the C-Sand bioremediation amendment slug injections at the Former Building 2.

Beyond the second quarter of 2008, quarterly WDR monitoring will continue in the third and fourth quarters of 2008 (semiannual report in January 2009) followed by semiannual monitoring and reporting thereafter.

Respectfully submitted,

AVOCET ENVIRONMENTAL, INC.



Michael Rendina, P.G., C.Hg.
Principal

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Avocet Environmental, Inc., January 29, 2008, *Fourth Quarter 2008 Waste Discharge Requirements (WDR) Monitoring Report, Biorecirculation Pilot Test, Former Building 1/36, Compliance File CI-9310, Order No. R4-2007-0040, Boeing Former C-6 Facility, Building 1/36, 19503 Normandie Avenue, Los Angeles, California.*

California Regional Water Quality Control Board, Los Angeles Region (LARWQCB) , February 15, 2008, *Approval of Revised Monitoring and Reporting Program CI9310, Individual Waste Discharge Requirements Order No. R4-2007-0040, Boeing Corporate Real Estate, Former C-6 Facility, 19503 South Normandie, Los Angeles, California (File No. 95-036; SLIC No. 0410; Site ID No. 1846000)*, letter to Boeing Realty Corporation.

Camp Dresser McKee, Inc., 2008a, *Addendum No. 2 to Building 1/36 (Parcel C) Source-Area Groundwater In-Situ Reactive Zone Pilot Study Workplan (Work Plan), Request to Include Well WCC_06S as a Contingency Extraction Well, Former C-6 Facility, 19503 South Normandie Avenue, Los Angeles, California, File No. 95-036; SLIC No. 410; Site ID No. 1846000*, dated January 11, 2008.

Camp Dresser McKee, Inc., 2008b, *Transmittal – Revised Monitoring and Reporting Program No. CI-9310, Order No. R4-2007-0040, Boeing Corporate Real Estate, Former C-6 Facility, 19503 South Normandie Avenue, Los Angeles, California, File No. 95-036; SLIC No. 410; Site ID No. 1846000*, dated January 25, 2008.

Camp Dresser McKee, Inc., 2008c, *Addendum No. 2 to the Building 2 In-Situ Reactive Zone Pilot Test Workplan, C-Sand Bioremediation Amendment Injections, Former C-6 Facility, 19503 South Normandie Avenue, Los Angeles, California, Compliance File CI-9310, Order No. R4-2007-0040*, dated January 25, 2008.

TABLES

Tables

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Table 1
WDR Groundwater Monitoring Well Completion Details
Boeing Former C-6 Facility, Building 1/36
Los Angeles, California

Well I.D.	Water Bearing Unit	Easting[1,3]	Northing[1,3]	Reference Elevation (feet amsl)[2]	Boring Total Depth (feet)	Screen Depth Interval (feet)	Depth to Top of Filter Pack (feet)	Casing Diameter (inches)	Casing Type	Slot Size (inches)	Drilled Date
Extraction Well											
EWB001[4]	B-Sand	6,470,381	1,769,604	49.01	90	59.2 - 89.2	56	6	Sch 80 PVC	0.02	11/09/06
Injection Wells (Group A)											
AW0064UB	B-Sand	6,470,346	1,769,801	53.28	92	68.5 - 88.5	66	2	Sch 40 PVC	0.02	06/21/05
AW0065UB	B-Sand	6,470,316	1,769,802	53.64	92	68.5 - 88.5	66	2	Sch 40 PVC	0.02	06/16/05
AW0066UB	B-Sand	6,470,286	1,769,802	53.98	91	69.5 - 89.5	67	2	Sch 40 PVC	0.02	06/14/05
AW0067UB	B-Sand	6,470,261	1,769,810	54.01	91	70 - 90	67	2	Sch 40 PVC	0.02	06/08/05
Performance Monitoring Wells (Group B)											
EWB002	B-Sand	6,470,279	1,769,773	53.74	90	60 - 90	56	6	Sch 80 PVC	0.02	06/13/07
AW0074UB	B-Sand	6,470,365	1,769,759	52.73	91	70 - 90	67	2	Sch 40 PVC	0.02	06/09/05
AW0075UB	B-Sand	6,470,332	1,769,740	53.23	93	69 - 89	66	2	Sch 40 PVC	0.02	06/08/05
AW0076UB	B-Sand	6,470,302	1,769,740	53.69	92	69 - 89	66	2	Sch 40 PVC	0.02	06/08/05
AW0077UB	B-Sand	6,470,254	1,769,763	53.96	86	70.5 - 85.5	69	2	Sch 40 PVC	0.02	08/19/04
WCC_06S	B-Sand	6,470,336	1,769,734	51.32	91	60 - 90	54	4	Sch 40 PVC	0.01	09/22/89
AW0073C	C-Sand	6,470,329	1,769,765	53.42	117	96 - 116	93	2	Sch 40 PVC	0.02	06/09/05
Downgradient Wells (Group C)											
WCC_12S	B-Sand	6,470,506	1,769,496	51.32	92	60 - 90	55	4	Sch 40 PVC	0.01	09/17/90
TMW_7	B-Sand	6,470,318	1,769,483	52.52	91	65 - 85	63	2	Sch 40 PVC	0.01	06/29/98
Upgradient Wells (Group D)											
AW0055UB	B-Sand	6,470,304	1,769,863	53.54	92	69 - 89	65	2	Sch 40 PVC	0.02	06/21/05

Notes:

(1) California State Plane North American Datum of 83 (NAD 83), Zone 5, Feet

(2) feet amsl = feet above mean sea level. Elevations based on North American Vertical Datum of 1988 (NAVD 88)

(3) Coordinates were slightly revised based on additional survey done in November 2006

(4) Well EWB001 contains a permanent pump. The top of casing was modified when a vault was installed. Total depth (BTC) prior to modification was 88.7 feet. Total depth after modification is 84.7 feet (i.e., approximately 4' of casing was removed - new TOC elevation approximately 49.01 feet amsl). The well is equipped with a transducer. The transducer was installed approximately 78.15 feet BTC. On December 12, 21.6' of water covered the transducer - a water level of 56.55 feet BTC. This equates to a water table elevation on 12/12 of -7.54 feet

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BOE-C6-0188142

Table 2
Groundwater Elevations
Boeing Former C-6 Facility, Building 1/36
Los Angeles, California

Well I.D.	Date Measured	Reference Elevation[1] (feet amsl)	Depth to Water (feet)[2]	Groundwater Elevation[1] (feet amsl)	Total Depth of Casing (feet)[2]	PID Measurement (ppmv)
AW0064UB	05/07/07	53.28	60.48	-7.20	87.7	NM
	06/13/07		60.40	-7.12	87.55	5.3
	01/29/08		60.22	-6.94	87.50	7.8
	02/26/08		60.15	-6.87	87.50	1.0
	03/24/08		58.96	-5.68	86.29	0.0
AW0065UB	05/07/07	53.64	60.85	-7.21	89.44	NM
	06/13/07		60.77	-7.13	89.40	0.0
	01/29/08		60.51	-6.87	89.10	5.2
	02/26/08		60.39	-6.75	89.10	1.4
	03/24/08		59.39	-5.75	88.27	21.7
AW0066UB	05/07/07	53.98	61.20	-7.22	90.15	NM
	06/13/07		61.12	-7.14	89.80	40.0
	NM[3]		NM	- -	NM	NM
	NM[3]		NM	- -	NM	NM
	03/24/08		59.79	-5.81	89.37	28.2
AW0067UB	05/07/07	54.01	61.24	-7.23	88.59	NM
	06/13/07		61.14	-7.13	87.40	18.8
	NM[3]		NM	- -	NM	NM
	NM[3]		NM	- -	NM	NM
	03/24/08		59.81	-5.80	89.52	0.0
EWB002	05/07/07	53.74	NM	- -	NM	NM
	06/13/07		60.52	-6.78	94.30	6.7
	01/29/08		60.71	-6.97	94.34	18.7
	02/26/08		60.53	-6.79	89.56	6.2
	03/24/08		60.40	-6.66	89.80	1.7
AW0074UB	05/07/07	52.73	59.95	-7.22	88.55	NM
	06/13/07		59.87	-7.14	88.05	8.1
	01/29/08		59.89	-7.16	88.55	9.2
	02/26/08		59.65	-6.92	88.55	3.8
	03/24/08		59.44	-6.71	87.80	3.0
AW0075UB	05/07/07	53.23	60.49	-7.26	89.08	NM
	06/13/07		60.40	-7.17	88.40	0.0
	01/29/08		60.30	-7.07	88.72	12.7
	02/26/08		60.16	-6.93	85.70	8.9
	03/24/08		59.99	-6.76	85.34	8.0
AW0076UB	05/07/07	53.69	61.00	-7.31	88.57	NM
	06/13/07		60.85	-7.16	88.45	1.9
	01/29/08		60.71	-7.02	88.57	25.5
	02/26/08		60.60	-6.91	88.55	8.7
	03/24/08		61.54	-7.85	87.35	0.0
AW0077UB	05/07/07	53.96	61.23	-7.27	83.45	NM
	06/13/07		61.13	-7.17	82.70	0.0
	01/29/08		61.21	-7.25	83.45	27.0
	02/26/08		60.75	-6.79	88.15	19.8
	03/24/08		60.61	-6.65	74.86	2.7

AVOCET ENVIRONMENTAL, INC.

Table 2
Groundwater Elevations
Boeing Former C-6 Facility, Building 1/36
Los Angeles, California

Well I.D.	Date Measured	Reference Elevation[1] (feet amsl)	Depth to Water (feet)[2]	Groundwater Elevation[1] (feet amsl)	Total Depth of Casing (feet)[2]	PID Measurement (ppmv)
WCC_06S	05/07/07	52.7	59.97	-7.27	84.83	NM
	06/13/07		59.85	-7.15	84.90	2.3
	01/29/08		59.79	-7.09	85.05	0.0
	02/26/08		59.62	-6.92	85.05	0.0
	03/24/08		59.46	-6.76	88.25	0.4
AW0073C	05/07/07	53.42	60.57	-7.15	117.50	NM
	06/13/07		60.56	-7.14	117.47	3.5
	01/29/08		60.55	-7.13	117.50	9.5
	02/26/08		60.32	-6.90	117.60	2.8
	03/24/08		60.12	-6.70	117.01	1.2
WCC_12S	05/07/07	51.32	58.69	-7.37	91.77	NM
	06/13/07		58.57	-7.25	91.30	0.0
	03/24/08		58.18	-6.86	91.80	0.0
TMW_07	05/07/07	53.96	61.43	-7.47	82.60	NM
	06/13/07		61.30	-7.34	82.55	3.4
	03/24/08		60.88	-6.92	82.61	0.0
AW0055UB	05/07/07	53.54	60.70	-7.16	89.30	NM
	06/13/07		60.65	-7.11	89.30	2.6
	03/24/08		60.18	-6.64	88.45	5.9

Notes:
feet amsl = feet above mean sea level (negative value indicates feet below mean sea level)
PID = photoionization detector
ppmv = part per million by volume
NM = not measured (well being used for amendment injection)
(1) Elevations based on North American Vertical Datum of 1988 (NAVD 88)
(2) Feet below top of casing
(3) Not measured;well being used for amendment injection

AVOCET ENVIRONMENTAL, INC.

Table 3
Summary of Field Parameters
Boeing Former C-6 Facility, Building 1/36
Los Angeles, California

Well I.D.	Unit	Monitoring Date	pH	Temperature (°C)	Turbidity (NTU)	Electrical Conductivity (mS/cm)	Dissolved Oxygen (mg/l)	Oxidation Reduction Potential (mV)	Ferrous Iron (mg/l)
WCC_12S	B-Sand	09/21/07	6.9	24.4	24.4	2170	4.43	48	0.00
AW0055UB	B-Sand	05/10/07	6.6	24.8	5.9	2.78	3.5	-134	0.00
	B-Sand	06/20/07	6.49	23	10.9	2.96	1	123	2.00
	B-Sand	03/25/08	6.73	22.25	1.11	2.92	0.22	-143	0.91
AW0064UB	B-Sand	05/09/07	5.3	23.8	98	2.9	5.9	-117	0.05
	B-Sand	06/20/07	6.62	23.9	32.7	2.27	2.56	128	0.09
AW0065UB	B-Sand	05/10/07	6.32	22.1	160.8	3.55	2.68	-119	0.08
	B-Sand	06/21/07	6.51	24.3	50.5	3.67	2.19	105	3.3
AW0066UB	B-Sand	05/10/07	5.1	21.4	350	5.8	3.8	-99	0.00
	B-Sand	06/20/07	6.41	24.8	851	3.87	1.76	110	3.24
	B-Sand	03/25/08	6.24	21.61	692	6.24	0.82	29	0.97
AW0067UB	B-Sand	05/10/07	5.5	22.9	990	1.5	3.9	97	0.00
	B-Sand	06/19/07	7	22.8	197	3.34	1	96	0.12
	B-Sand	03/25/08	6.09	21.32	>2,000	5.16	0.29	9	1.49
AW0073C	C-Sand	05/10/07	5.4	24.1	75	1.1	3.2	-140	0.00
	C-Sand	06/20/07	6.96	23.4	124	0.539	0	275	0.21
	C-Sand	01/29/08	7.10	21.59	- -	0.999	0.25	-293	2.70
	C-Sand	02/26/08	7.06	21.52	85.7	0.886	0.23	-285	0.96
	C-Sand	03/25/08	7.14	22.91	328	0.898	0.52	30	1.03
AW0074UB	B-Sand	05/09/07	5.3	23.3	120	1.9	4.3	35	0.00
	B-Sand	06/19/07	6.67	25.3	232	2.61	1.57	11.7	0.08
	B-Sand	01/29/08	6.86	21.90	- -	1.75	0.80	-18	1.10
AW0075UB	B-Sand	05/09/07	5.3	25	990	2.5	6.2	-115	0.00
	B-Sand	06/21/07	6.58	22.4	132	2.52	0.73	131	3.05
	B-Sand	01/30/08	6.74	21.71	- -	2.41	0.13	-244	3.30
	B-Sand	02/26/08	6.64	22.32	21.9	2.47	0.10	-265	1.65
	B-Sand	03/25/08	6.69	22.01	1.9	2.61	0.69	15	1.44
AW0076UB	B-Sand	05/09/07	5.3	23.7	48	5.4	6	-119	0.01
	B-Sand	06/21/07	6.54	22.6	106	4.1	1.45	116	3.3
	B-Sand	01/30/08	6.52	21.70	- -	3.96	0.12	-195	3.30
	B-Sand	02/26/08	6.61	22.33	169	3.13	0.16	-194	1.36
	B-Sand	03/25/08	6.41	20.21	9.4	3.42	0.52	28	1.42
AW0077UB	B-Sand	05/10/07	5.2	25.3	990	3.6	5.2	-144	0.00
	B-Sand	06/20/07	6.14	25.5	999	4	1.25	157	0.26
	B-Sand	01/30/08	6.53	21.33	- -	2.92	0.19	-217	1.66
	B-Sand	02/26/08	6.52	22.24	56.4	2.58	0.25	-229	0.95
	B-Sand	03/25/08	6.82	22.28	85	2.82	0.38	56	0.86
EWB001	B-Sand	05/08/07	7.4	23.9	54	1.9	2.6	-211	0.37
	B-Sand	06/18/07	7.21	23.7	23.5	1.7	0.03	20	0.03
	B-Sand	12/12/07	7.14	22.4	186	0.185	0.8	5	0.02
EWB002	B-Sand	06/21/07	6.61	23.3	0.5	2.56	0.92	101	3.3
	B-Sand	12/12/07	6.53	21.88	2	0.335	0.45	-120	1.58
	B-Sand	01/29/08	6.65	21.67	- -	2.94	0.30	-252	3.30
	B-Sand	02/26/08	6.59	22.13	1.07	2.44	2.37	-190	1.48
	B-Sand	03/25/08	6.45	21.02	0.2	2.69	0.37	23	1.50
TMW_07	B-Sand	05/08/07	7.4	26.2	130	1.8	7.4	42	0.53
	B-Sand	06/18/07	7.23	24.7	350	1.46	11.37	85	0.45
	B-Sand	03/25/08	7.14	21.74	2.71	1.55	5.07	115	0.00

AVOCET ENVIRONMENTAL, INC.

Table 3
Summary of Field Parameters
Boeing Former C-6 Facility, Building 1/36
Los Angeles, California

Well I.D.	Unit	Monitoring Date	pH	Temperature (°C)	Turbidity (NTU)	Electrical Conductivity (mS/cm)	Dissolved Oxygen (mg/l)	Oxidation Reduction Potential (mV)	Ferrous Iron (mg/l)
WCC_06S	B-Sand	05/08/07	7	25	48	2.9	2.5	-138	3.3
	B-Sand	06/19/07	6.99	23.9	5.1	5.96	1.07	27	0.54
	B-Sand	01/29/08	7.83	20.75	- -	0.138	5.31	79	3.16
	B-Sand	03/26/08	7.30	22.40	9.5	3.31	6.42	76	- -
WCC_12S	B-Sand	05/09/07	5.6	24.5	2	2.2	5.2	-30	0.00
	B-Sand	06/18/07	7.22	23.6	-10	2.05	9.95	63	0.12
	B-Sand	09/21/07	6.9	24.4	70	2.17	4.43	48	0.00
	B-Sand	03/25/08	7.25	21.42	1.41	1.71	4.99	51	0.04

Notes:
°C = degrees Celsius
NTU = nephelometric turbidity unit
mS/cm = milliSiemen per centimeter
mg/l = milligram per liter
mV = millivolt
"- -" = not analyzed

AVOCET ENVIRONMENTAL, INC.

Table 4
Summary of Prevalent Volatile Organic Compounds Analytical Results
(Units are µg/l)
Boeing Former C-6 Facility, Building 1/36
Los Angeles, California

Well I.D.	Category	Sample Date	Sample Type	1,1,1-Trichloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,2-Dichloroethane	2-Butanone (MEK)	4-Methyl-2-pentanone (MIBK)	Acetone	Benzene	Bromodichloromethane	Carbon Disulfide	Chloroethane	Chloroform	Chloromethane
AW0055UB	B-Sand	05/10/07	Primary	60	44	440	8,800	140	6,900	3,000	1,200	47	<25	<25	<50	51	<50
	B-Sand	06/20/07	Primary	96	63	510	9,500	130	38,000	9,300	3,800	62	<20	<20	<40	51	<40
	B-Sand	03/25/08	Primary	14 J	48	550	19,000	99	<200	<200	<400	67	<40	<40	<80	52	<80
AW0065UB	B-Sand	05/10/07	Primary	1,500	110 J	690	6,300	290	80,000	51,000	9,900	76 J	<200	<200	<400	<200	<400
	B-Sand	05/10/07	Duplicate	1,600	120 J	770	7,300	320	100,000	61,000	12,000	82 J	<250	<250	<500	<250	<500
	B-Sand	06/21/07	Primary	850	100 J	690	8,200	200	66,000	35,000	9,400	92 J	<200	<200	<400	<200	<400
AW0066UB	B-Sand	05/10/07	Primary	<250	110 J	1,100	7,300	340	120,000	16,000	18,000	<250	<250	<250	<500	<250	<500
	B-Sand	06/20/07	Primary	<1,000	<1,000	1,200	11,000	<500	190,000	20,000	26,000	<1,000	<1,000	<1,000	<2,000	<1,000	<2,000
	B-Sand	03/25/08	Primary	<1	<1	6.9	140 A-01,P6	1.1	140	12	210	1.3	<1	3.8	<2	36	6.3
AW0067UB	B-Sand	05/10/07	Primary	26	<20	220	3,200	27	1,700	<100	1,200	8.2 J	<20	<20	<40	22	<40
	B-Sand	06/19/07	Primary	20	19	400	7,200	44	<120	17	<250	25	<1	<1	0.57 J	42	<2
	B-Sand	03/25/08	Primary	<4	<4	9.3	440	<2	270	<20	110	1.6 J	<4	4.2	4.9 J	17	14
AW0073C	C-Sand	05/10/07	Primary	730	38 J	120	4,200	96	5,700	12,000	480	33 J	<40	<40	<80	<40	<80
	C-Sand	06/20/07	Primary	600	42 J	120	4,600	64	9,700	25,000	720	34 J	<50	<50	<100	<50	<100
	C-Sand	01/29/08	Primary	180	16 J	96	2,800	33	<100	2,900	110 J	23	<20	<20	<40	6.6 J	<40
	C-Sand	02/26/08	Primary	110	11	84	2,000	32	<50	1,300	140	16	<10	<10	<20	3.9 J	<20
	C-Sand	03/25/08	Primary	53	7 J	73	520	22	720	300	490	13	<20	<20	<40	<20	<40
AW0074UB	B-Sand	05/09/07	Primary	1.5	0.66 J	75	2,900	2.3	140	<5	53	20	<1	<1	<2	3	1.1 J
	B-Sand	06/19/07	Primary	4.5	2	81	3,400	3.8	<200	14	<400	24	<1	0.99 J	<2	3.6	<2
	B-Sand	01/29/08	Primary	3.1 J	3.4 J	72	4,300	7.3	<50	<50	45 J	22	<10	<10	<20	4 J	<20
AW0075UB	B-Sand	05/09/07	Primary	79	72	450	10,000	110	<5	7,000	2,000	100	<1	0.99 J	<2	27	<2
	B-Sand	06/21/07	Primary	99	50	410	10,000	87	600	5,100	1,300 J	110	<20	<20	<40	<20	<40
	B-Sand	01/30/08	Primary	350	82	560	14,000	140	11,000	26,000	5,100	95	<40	<40	<80	40	<80
	B-Sand	02/26/08	Primary	250	78 J	560	13,000	180	19,000	26,000	10,000	73	<100	<100	<200	<100	<200
	B-Sand	03/25/08	Primary	230	76	490	4,200	140	34,000	15,000	5,600	64	<50	<50	<100	28 J	<100
AW0076UB	B-Sand	05/09/07	Primary	88	180	990	9,800	260	75,000	31,000	18,000	100	<1	<1	<2	53	<2
	B-Sand	06/21/07	Primary	140	180	960	9,600	280	57,000	29,000	17,000	82 J	<100	<100	<200	39 J	<200
	B-Sand	01/30/08	Primary	22 J	170	1,300	11,000	320	140,000	24,000	39,000	90	<50	<50	<100	59	<100
	B-Sand	02/26/08	Primary	<400	<400	920	6,600	220	110,000	17,000	31,000	<200	<400	<400	<800	<400	<800
	B-Sand	03/25/08	Primary	<50	72	510	1,300	130	64,000	7,700	9,200	42	<50	<50	<100	<50	<100
AW0077UB	B-Sand	05/10/07	Primary	<100	71 J	780	5,600	230	61,000	10,000	17,000	37 J	<100	<100	<200	<100	<200
	B-Sand	06/20/07	Primary	<100	61 J	740	6,700	160	56,000	7,000	12,000	49 J	<100	<100	<200	<100	<200
	B-Sand	01/30/08	Primary	<40	38 J	310	3,100	110	1,300	450	1,000	43	<40	<40	<80	<40	<80
	B-Sand	02/26/08	Primary	<40	44	250	990	89	<200	<200	300 J	48	<40	<40	<80	<40	<80
	B-Sand	02/26/08	Duplicate	<20	46	240	950	93	190	140	370	44	<20	<20	<40	<20	<40
	B-Sand	03/25/08	Primary	<20	19 J	340	32	110	770	500	560	48	<20	<20	20 J	<20	<40

AVOCET ENVIRONMENTAL, INC.

Table 4
Summary of Prevalent Volatile Organic Compounds Analytical Results
(Units are µg/l)
Boeing Former C-6 Facility, Building 1/36
Los Angeles, California

Well I.D.	Category	Sample Date	Sample Type	1,1,1-Trichloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,2-Dichloroethane	2-Butanone (MEK)	4-Methyl-2-pentanone (MIBK)	Acetone	Benzene	Bromodichloromethane	Carbon Disulfide	Chloroethane	Chloroform	Chloromethane
EWB001	B-Sand	05/08/07	Primary	<10	<10	**3.6 J**	**460**	<5	<50	<50	<100	<10	<10	<10	<20	<10	<20
	B-Sand	06/18/07	Primary	<2	<2	**3.5**	**660**	<1	<10	<10	<20 C	<2	<2	<2	<4	**1.5 J**	<4
EWB002	B-Sand	06/21/07	Primary	**71**	**100**	**530**	**7,400**	**150**	**58,000**	**13,000**	**7,600**	**58**	<10	<10	<20	**33**	<20
	B-Sand	06/21/07	Duplicate	**73**	**100**	**550**	**7,500**	**150**	**62,000**	**14,000**	**8,700 J**	**59**	<10	<10	<20	**34**	<20
	B-Sand	12/12/07	Primary	**22 J**	**76**	**540**	**3,400**	**140**	**16,000**	**11,000**	**8,000**	**58**	<50	<50	<100	**26 J**	<100
	B-Sand	01/29/08	Primary	<40	**37 J**	**390**	**3,200**	**85**	**370**	**1,400**	**420**	**35 J**	<40	<40	<80	**14 J**	<80 **L**
	B-Sand	01/29/08	Duplicate	<40	**39 J**	**420**	**3,700**	**94**	**310**	**1,600**	**490**	**38 J**	<40	<40	<80	**14 J**	<80 **L**
	B-Sand	02/26/08	Primary	<20	**33**	**300**	**170**	**53**	**140**	**330**	**190 J**	**33**	<20	<20	<40	**7.4 J**	<40
	B-Sand	03/25/08	Primary	<20	**17 J**	**180**	**18 J**	**31**	**960**	**420**	**320**	**20**	<20	<20	<40	<20	<40
TMW_07	B-Sand	05/08/07	Primary	<1	**7.8**	**0.75 J**	**19**	<0.5	<5	<5	<10	<1	<1	<1	<2	**4.2**	<2
	B-Sand	06/18/07	Primary	<1	**10**	**0.96 J**	**18**	<0.5	<5	<5	<10	<1	<1	<1	<2	**5.3**	<2
	B-Sand	03/25/08	Primary	<5	**7.2**	<5	**12**	<2.5	<25	<25	<50	<2.5	<5	<5	<10	**4.4 J**	<10
WCC_06S	B-Sand	05/08/07	Primary	<20	**15 J**	**170**	**6,100**	**29**	<100	<100	<200	**46**	<20	<20	<40	**11 J**	<40
	B-Sand	06/19/07	Primary	<1	**5.1**	**56**	**1,900**	**8.6**	<5 C	<5	<10 C	**14**	<1	<1	<2	**4**	<2
	B-Sand	01/29/08	Primary	<1	<1	<1	**21**	<0.5	<5	<5	<10	<1	<1	<1	<2	<1	<2 **L, M7**
	B-Sand	03/26/08	Primary	<1	<1	**1.8**	**290**	<0.5	<5	<5	<10	<0.5	<1	<1	<2	**1.1**	<2
WCC_12S	B-Sand	05/09/07	Primary	<1	**0.33 J**	**12**	**13**	<0.5	<5	<5	<10	<1	<1	<1	<2	**2.7**	<2
	B-Sand	06/18/07	Primary	<1	<1	**17**	**17**	<0.5	<5	<5	<10	<1	<1	<1	<2	**4**	<2
	B-Sand	09/21/07	Primary	<1	**0.37 J**	**18**	**15**	<0.5	<5 C	<5	<10 C	<1	**0.64 J**	<1	<2	**4.2**	<2
	B-Sand	03/25/08	Primary	<1	<1	**4**	**2.3**	<0.5	<5	<5	**18**	<0.5	**0.47 J**	<1	<2	**2.5**	<2
	B-Sand	03/25/08	Duplicate	<1	<1	**4.2**	**2.6**	<0.5	<5	<5	**12**	<0.5	**0.43 J**	<1	<2	**2.4**	<2

Notes:
Bold indicates detected concentration
< = not detected at a concentration greater than the laboratory reporting limit (RL) indicated
- - = not analyzed
J = estimated value; result below RL and above or equal to MDL (method detection limit)
A-01 = used unpreserved VOA because all preserved VOAs had headspace
P6 = sample received unpreserved; however, the sample was analyzed within 7 days per EPA recommendation
P-HS = sample container contained headspace
L = Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was above the acceptance limits
B = analyte was detected in the associated Method Blank
M2 = the MS and/or MSD were below the acceptance limits due to sample matrix interference
M7 = the MS and/or MSD were above the acceptance limits
C = Calibration Verification recovery was above the method control limit for analyte; analyte not detected, data not impacted

AVOCET ENVIRONMENTAL, INC.

Table 4
Summary of Prevalent Volatile Organic Compounds Analytical Results
(Units are µg/l)
Boeing Former C-6 Facility, Building 1/36
Los Angeles, California

Well I.D.	Category	Sample Date	Sample Type	cis-1,2-Dichloroethene	Di-isopropyl Ether (DIPE)	Ethylbenzene	m,p-Xylenes	Methylene chloride	o-Xylene	Tetrachloroethene	Tetrahydrofuran (THF)	Toluene	trans-1,2-Dichloroethene	Trichloroethene	Trichlorofluoromethane	Vinyl chloride
AW0055UB	B-Sand	05/10/07	Primary	10,000	--	<25	--	<25	--	<25	1,200	1,400	270	1,600	<50	40
	B-Sand	06/20/07	Primary	12,000	--	<20	--	<20	--	<20	3,400	3,000	360	1,500	<40	67
	B-Sand	03/25/08	Primary	9,100	14 J	<40	<40	<40	<20	<40	<400	120	480	11,000	<80	160
AW0065UB	B-Sand	05/10/07	Primary	6,200	--	<200	--	<200	--	<200	2,300	14,000	310	<200	<400	<100
	B-Sand	05/10/07	Duplicate	7,000	--	<250	--	<250	--	<250	2,400 J	15,000	350	<250	<500	<120
	B-Sand	06/21/07	Primary	8,700	--	<200	--	<200	--	<200	5500 B	15,000	360	86 J	<400	<100
AW0066UB	B-Sand	05/10/07	Primary	8,400	--	<250	--	<250	--	<250	1,800 J	8,700	360	100 J	<500	220
	B-Sand	06/20/07	Primary	11,000	--	<1,000	--	<1,000	--	<1,000	<10,000	11,000	410 J	<1,000	<2,000	340 J
	B-Sand	03/25/08	Primary	180	<2	0.32 J	<1	1.2	<0.5	<1	82	5.7	8.1	72	<2	100
AW0067UB	B-Sand	05/10/07	Primary	1,000	--	<20	--	<100	--	<20	8,900	79	73	3,700	<40	<10
	B-Sand	06/19/07	Primary	6,100	--	1.1	--	1.7	--	0.36 J	480	390	220	3,100	<2	10
	B-Sand	03/25/08	Primary	500	<8	<4	<4	<4	<2	<4	240	5.5	13	160	<8	6.4
AW0073C	C-Sand	05/10/07	Primary	1,200	--	11 J	--	<100	--	<40	4,900	12,000	75	210	<80	<20
	C-Sand	06/20/07	Primary	1,400	--	<50	--	<50	--	<50	5,400	14,000	84	140	<100	<25
	C-Sand	01/29/08	Primary	770	--	6 J	--	<20	--	<20	470	6,900	54	53	<40	94
	C-Sand	02/26/08	Primary	500	3.1 P-HS,J	3.6 J	14	<10	4.1 J	<10	2,200	4,400	42	30	<20 L	260
	C-Sand	03/25/08	Primary	290	<40	<20	14 J	<20	<10	<20	9,800	3,200	35	14 J	<40	810
AW0074UB	B-Sand	05/09/07	Primary	120	--	<1	--	54	--	0.55 J	880	0.79 J	79	2,300	<2	0.52
	B-Sand	06/19/07	Primary	1,100	--	1.1	--	<1	--	0.35 J	1,000	290	120	1,400	<2	5
	B-Sand	01/29/08	Primary	730	--	<10	--	<10	--	<10	52 J	220	77	2,000	<20	3.9 J
AW0075UB	B-Sand	05/09/07	Primary	6,800	--	24	--	160	--	<1	3,700	12,000	340	560	<2	32
	B-Sand	06/21/07	Primary	6,700	--	24	--	94	--	<20	880	15,000	330	410	<40	62
	B-Sand	01/30/08	Primary	8,000	--	17 J	--	<40	--	<40	270 J	18,000	390	460	<80	1,000
	B-Sand	02/26/08	Primary	7,400	<200 L	<100	<100	<100	<50	<100	<1,000	12,000	340	460	<200 L	800
	B-Sand	03/25/08	Primary	4,300	<100	<50	60	<50	24 J	<50	<500	6,900	310	370	<100	3,300
AW0076UB	B-Sand	05/09/07	Primary	12,000	--	18	--	300	--	<1	1,500 J	16,000	500	53	<2	25
	B-Sand	06/21/07	Primary	11,000	--	<100	--	<100	--	<100	5,800	15,000	400	48 J	<200	<50
	B-Sand	01/30/08	Primary	11,000	--	14 J	--	<50	--	<50	270 J	15,000	570	28 J	<100	4,000
	B-Sand	02/26/08	Primary	6,000	<800 L	<400	<400	<400	<200	<400	<4,000	8,700	330 J	<400	<800 L	5,500
	B-Sand	03/25/08	Primary	2,000	<100	<50	46 J	<50	24 J	<50	<500	4,400	220	<50	<100	11,000
AW0077UB	B-Sand	05/10/07	Primary	6,400	--	<100	--	<100	--	<100	32,000	4,500	220	230	<200	120
	B-Sand	06/20/07	Primary	8,600	--	<100	--	<100	--	<100	2,300 B	4,800	280	41 J	<200	320
	B-Sand	01/30/08	Primary	5,300	--	<40	--	<40	--	<40	470	590	260	50	<80	8,600
	B-Sand	02/26/08	Primary	3,300	10 J	<40	<40	<40	<20	<40	<400	190	260	<40	<80	13,000
	B-Sand	02/26/08	Duplicate	3,000	11 J	<20	<20	<20	<10	<20	79 J	190	230	<20	<40	11,000
	B-Sand	03/25/08	Primary	99	14 J	<20	<20	<20	<10	<20	210	530	190	<20	<40	15,000

AVOCET ENVIRONMENTAL, INC.

Table 4
Summary of Prevalent Volatile Organic Compounds Analytical Results
(Units are µg/l)
Boeing Former C-6 Facility, Building 1/36
Los Angeles, California

Well I.D.	Category	Sample Date	Sample Type	cis-1,2-Dichloroethene	Di-isopropyl Ether (DIPE)	Ethylbenzene	m,p-Xylenes	Methylene chloride	o-Xylene	Tetrachloroethene	Tetrahydrofuran (THF)	Toluene	trans-1,2-Dichloroethene	Trichloroethene	Trichlorofluoromethane	Vinyl chloride
EWB001	B-Sand	05/08/07	Primary	**56**	--	<10	--	**11**	--	<10	<100	**3.9 J**	**4.1 J**	**560**	<20	<5
	B-Sand	06/18/07	Primary	**49**	--	<2	--	**2.8**	--	<2	<20	<2	**4.2**	**680**	<4	<1
EWB002	B-Sand	06/21/07	Primary	**5,800**	--	**8.6 J**	--	<10	--	<10	**54 B,J**	**7,300**	**300**	**650 M2**	<20	**16**
	B-Sand	06/21/07	Duplicate	**6,200**	--	**8.9 J**	--	<10	--	<10	**66 B,J**	**7,800**	**300**	**620**	<20	**19**
	B-Sand	12/12/07	Primary	**6,100**	--	<50	--	<50	--	<50	<500	**6,800**	**300**	**14 J**	<100	**5,600**
	B-Sand	01/29/08	Primary	**2,400**	--	<40	--	**68**	--	<40	**140 J**	**2,600**	**220**	<40	<80	**6,800**
	B-Sand	01/29/08	Duplicate	**2,800**	--	<40	--	**70**	--	<40	**160 J**	**2,700**	**240**	**12 J**	<80	**7,500**
	B-Sand	02/26/08	Primary	**160**	**9 J**	<20	<20	<20	<10	<20	<200	**1,200**	**200**	<20	<40	**9,900**
	B-Sand	03/25/08	Primary	**12 J**	<40	<20	<20	<20	<10	<20	<200	**810**	**120**	<20	<40	**6,800**
TMW_07	B-Sand	05/08/07	Primary	**1.6**	--	<1	--	<1	--	**1.3**	<10	<1	<1	**1,700**	<2	<0.5
	B-Sand	06/18/07	Primary	**2.6**	--	<1	--	<1	--	**0.85 J**	<10	<1	<1	**1,600**	<2	<0.5
	B-Sand	03/25/08	Primary	**1.6 J**	<10	<5	<5	<5	<2.5	<5	<50	<5	<5	**1,300**	<10	<2.5
WCC_06S	B-Sand	05/08/07	Primary	**2,400**	--	**5.6 J**	--	<20 **P-HS**	--	<20	<200	**1,500**	**150**	**1,000**	<40	**550**
	B-Sand	06/19/07	Primary	**630**	--	**1.5**	--	<1	--	**1.6**	<10 C	**390**	**58**	**590**	<2	**210**
	B-Sand	01/29/08	Primary	**1.2**	--	<1	--	<1	--	<1	<10	<1	<1	**22**	<2	**0.46 J**
	B-Sand	03/26/08	Primary	**4.5**	<2	<1	<1	<1	<0.5	**2.3**	<10	<1	**2.9**	**400**	<2	**0.8**
WCC_12S	B-Sand	05/09/07	Primary	**0.97 J**	--	<1	--	**1.6**	--	**0.93 J**	<10	<1	<1	**110**	<2	<0.5
	B-Sand	06/18/07	Primary	**1.7**	--	<1	--	<1	--	<1	<10	<1	<1	**140**	<2	<0.5
	B-Sand	09/21/07	Primary	**1.8**	--	<1	--	<1	--	**1.1**	<10	<1	<1	**120**	<2	<0.5
	B-Sand	03/25/08	Primary	<1	<2	<1	<1	<1	<0.5	<1	<10	<1	<1	**35**	<2	<0.5
	B-Sand	03/25/08	Duplicate	<1	<2	<1	<1	<1	<0.5	**0.32 J**	<10	<1	<1	**35**	<2	<0.5

Notes:
Bold indicates detected concentration
< = not detected at a concentration greater than the laboratory reporting limit (RL) indicated
- - = not analyzed
J = estimated value; result below RL and above or equal to MDL (method detection limit)
A-01 = used unpreserved VOA because all preserved VOAs had headspace
P6 = sample received unpreserved; however, the sample was analyzed within 7 days per EPA recommendation
P-HS = sample container contained headspace
L = Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was above the acceptance limits
B = analyte was detected in the associated Method Blank
M2 = the MS and/or MSD were below the acceptance limits due to sample matrix interference
M7 = the MS and/or MSD were above the acceptance limits
C = Calibration Verification recovery was above the method control limit for analyte; analyte not detected, data not impacted

AVOCET ENVIRONMENTAL, INC.

Table 5
Summary of Dissolved Hydrocarbon Gases Analytical Results
(Units are µg/l)
Boeing Former C-6 Facility, Building 1/36
Los Angeles, California

Well I.D.	Category	Sample Date	Sample Type	Ethane	Ethylene	Methane
AW0055UB	B-Sand	05/10/07	Primary	<2	<3	**1.2**
	B-Sand	06/20/07	Primary	<2	<3	**1.3**
	B-Sand	03/25/08	Primary	<1	**1.8**	**2.8**
AW0065UB	B-Sand	05/10/07	Primary	<2	<3	**1.4**
	B-Sand	05/10/07	Duplicate	<2	<3	**1.3**
	B-Sand	06/21/07	Primary	<2	<3	**1.2**
AW0066UB	B-Sand	05/10/07	Primary	<2	<3	**3.3**
	B-Sand	06/20/07	Primary	<2	<3	<1
	B-Sand	03/25/08	Primary	**0.73 J**	**0.53 J**	**5,700**
AW0067UB	B-Sand	05/10/07	Primary	<2	<3	**1.2**
	B-Sand	06/19/07	Primary	<2	<3	**1.4**
	B-Sand	03/25/08	Primary	<1	**0.45 J**	**3,600**
AW0073C	C-Sand	05/10/07	Primary	<2	<3	**1.3**
	C-Sand	06/20/07	Primary	<2	<3	**1.6**
	C-Sand	01/29/08	Primary	<2	<3	**140**
	C-Sand	02/26/08	Primary	<2	**1.3 Jb**	**250**
	B-Sand	03/25/08	Primary	<1	**2.7**	**630**
AW0074UB	B-Sand	05/09/07	Primary	<2	<3	**1.2**
	B-Sand	06/19/07	Primary	<2	<3	**1.3**
	B-Sand	01/29/08	Primary	<2	<3	**12**
AW0075UB	B-Sand	05/09/07	Primary	<2	<3	**1.1**
	B-Sand	06/21/07	Primary	<2	<3	**1.1**
	B-Sand	01/30/08	Primary	<2	<3	**33**
	B-Sand	02/26/08	Primary	<2	<3 **Jb**	**4.1**
	B-Sand	03/25/08	Primary	<1	**5.3**	**3.9**
AW0076UB	B-Sand	05/09/07	Primary	<2	<3	**1.4**
	B-Sand	06/21/07	Primary	<2	<3	**1.2**
	B-Sand	01/30/08	Primary	<2	**30**	**2.8**
	B-Sand	02/26/08	Primary	**0.51 Jb**	**57**	**120**
	B-Sand	03/25/08	Primary	<1	**85**	**550**
AW0077UB	B-Sand	05/10/07	Primary	<2	<3	**850**
	B-Sand	06/20/07	Primary	<2	<3	**1,200**
	B-Sand	01/30/08	Primary	<2	**61**	**1,600**
	B-Sand	02/26/08	Primary	<2	**87**	**1,100**
	B-Sand	03/25/08	Primary	<1	**270**	**5,000**
EWB001	B-Sand	05/08/07	Primary	<2	<3	**12**
	B-Sand	06/18/07	Primary	<2	<3	**9.4**
EWB002	B-Sand	06/21/07	Primary	<2	<3	**2.3**
	B-Sand	06/21/07	Duplicate	<2	<3	**2.3**
	B-Sand	12/12/07	Primary	<2	**10**	**540**
	B-Sand	01/29/08	Primary	<2	**7.5**	**570**
	B-Sand	02/26/08	Primary	<2	**28**	**1,400**
	B-Sand	03/25/08	Primary	<1	**39**	**3,500**
TMW_07	B-Sand	05/08/07	Primary	<2	<3	<1
	B-Sand	06/18/07	Primary	<2	<3	<1
	B-Sand	03/25/08	Primary	<1	**0.41 J**	**0.47 J**
WCC_06S	B-Sand	05/08/07	Primary	<2	<3	**2.7**
	B-Sand	06/19/07	Primary	<2	<3	**1.5**
	B-Sand	01/29/08	Primary	<2	<3	<1
WCC_12S	B-Sand	05/09/07	Primary	<2	<3	**1.4**
	B-Sand	06/18/07	Primary	<2	<3	<1
	B-Sand	09/21/07	Primary	<0.002	<0.003	<0.001
	B-Sand	03/25/08	Primary	<1	<1	**1.2**

Notes:
< = Not detected at a concentration greater than the laboratory reporting limit indicated
Bold indicates detected concentration
J = estimated value; analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL)
Jb = estimated value; analyte detected at a level less than the RL and greater than or equal to the MDL

AVOCET ENVIRONMENTAL, INC.

Table 6
Summary of Total Organic Carbon Analytical Results
(Units are mg/l)
Boeing Former C-6 Facility
Los Angeles, California

Well I.D.	Category	Sample Date	Sample Type	Total Organic Carbon
AW0055UB	B-Sand	05/10/07	Primary	**76**
	B-Sand	06/20/07	Primary	**170**
	B-Sand	03/25/08	Primary	**3.6**
AW0065UB	B-Sand	05/10/07	Primary	**480**
	B-Sand	05/10/07	Duplicate	**470**
	B-Sand	06/21/07	Primary	**430**
AW0066UB	B-Sand	05/10/07	Primary	**530**
	B-Sand	06/20/07	Primary	**710**
	B-Sand	03/25/08	Primary	**3,300**
AW0067UB	B-Sand	05/10/07	Primary	**11**
	B-Sand	06/19/07	Primary	**5.8**
	B-Sand	03/25/08	Primary	**2,200**
AW0073C	C-Sand	05/10/07	Primary	**59**
	C-Sand	06/20/07	Primary	**150**
	C-Sand	01/29/08	Primary	**16**
	C-Sand	02/26/08	Primary	**11**
	C-Sand	03/25/08	Primary	**29**
AW0074UB	B-Sand	05/09/07	Primary	**1.9** B
	B-Sand	06/19/07	Primary	**3.8**
	B-Sand	01/29/08	Primary	**1.6**
AW0075UB	B-Sand	05/09/07	Primary	**84**
	B-Sand	06/21/07	Primary	**87**
	B-Sand	01/30/08	Primary	**120**
	B-Sand	02/26/08	Primary	**150**
	B-Sand	02/26/08	Primary	**150**
	B-Sand	03/25/08	Primary	**210**
AW0076UB	B-Sand	05/09/07	Primary	**540**
	B-Sand	06/21/07	Primary	**630**
	B-Sand	01/30/08	Primary	**550**
	B-Sand	02/26/08	Primary	**380**
	B-Sand	02/26/08	Primary	**380**
	B-Sand	03/25/08	Primary	**480**
AW0077UB	B-Sand	05/10/07	Primary	**660**
	B-Sand	06/20/07	Primary	**670**
	B-Sand	01/30/08	Primary	**150**
	B-Sand	02/26/08	Primary	**71**
	B-Sand	03/25/08	Primary	**150**
EWB001	B-Sand	05/08/07	Primary	**1.2**
	B-Sand	06/18/07	Primary	<1
EWB002	B-Sand	06/21/07	Primary	**230**
	B-Sand	06/21/07	Duplicate	**250**
	B-Sand	12/12/07	Primary	**20**
	B-Sand	01/29/08	Primary	**150**
	B-Sand	02/26/08	Primary	**130**
	B-Sand	03/25/08	Primary	**200**
TMW_07	B-Sand	05/08/07	Primary	**1.5**
	B-Sand	06/18/07	Primary	<1
	B-Sand	03/25/08	Primary	<1
WCC_06S	B-Sand	05/08/07	Primary	**5.5**
	B-Sand	06/19/07	Primary	**2.5**
	B-Sand	01/29/08	Primary	**1.4**
WCC_12S	B-Sand	05/09/07	Primary	**2** B
	B-Sand	06/18/07	Primary	**1.9**
	B-Sand	09/21/07	Primary	**1.8**
	B-Sand	03/25/08	Primary	**1.4**

Notes:
< = not detected at a concentration greater than the laboratory reporting limit indicated
Bold indicates detected concentration
B = analyte detected in Method Blank

AVOCET ENVIRONMENTAL, INC.

Table 7
Summary of Volatile Fatty Acids Analytical Results
(Units are mg/l)
Boeing Former C-6 Facility
Los Angeles, California

Well I.D.	Category	Sample Date	Sample Type	Acetic Acid	Butyric Acid	Hexanoic Acid	i-Hexanoic Acid	i-Pentanoic Acid	Lactic Acid	Pentanoic Acid	Propionic Acid	Pyruvic Acid
AW0055UB	B-Sand	05/10/07	Primary	84.1	0.975	NR	NR	NR	1.0	NR	17.2	NR
	B-Sand	06/20/07	Primary	140.0	2.8	0.68	<0.1	0.85	9.8	0.68	36.0	0.82
	B-Sand	03/25/08	Primary	1.5 M	<0.07 M	<0.1 M	<0.1	<0.07 M	<0.1 M	<0.07	0.24 M	<0.07 M
AW0065UB	B-Sand	05/10/07	Primary	426.0	8.4	NR	NR	NR	1.0	NR	67.6	NR
	B-Sand	05/10/07	Duplicate	460.0	8.63	NR	NR	NR	1.0	NR	68.1	NR
	B-Sand	06/21/07	Primary	340.0	5.8	0.21	<0.1	2.3	71.0	0.38	54.0	1.4
AW0066UB	B-Sand	05/10/07	Primary	483.0	13.6	NR	NR	NR	1.0	NR	72.9	NR
	B-Sand	06/20/07	Primary	480.0	22.0	0.44	<0.1	1.2	15.0	1.2	61.0	2.0
	B-Sand	03/25/08	Primary	440	1900	680	1.5	270	<10.0	240	78	190
AW0067UB	B-Sand	05/10/07	Primary	0.19	0.1	NR	NR	NR	0.1	NR	0.016 J	NR
	B-Sand	06/19/07	Primary	5.8	<0.07	<0.1	<0.1	<0.07	<0.1	<0.07	<0.07	<0.07
	B-Sand	03/25/08	Primary	1200	740	72	2.3	230	70 J	78	420	130
AW0073C	C-Sand	05/10/07	Primary	58.8	3.28	NR	NR	NR	0.1	NR	10.6	NR
	C-Sand	06/20/07	Primary	58.0	2.0	0.45	<0.1	1.2	2.0	0.15	9.9	0.33
	C-Sand	02/26/08	Primary	9.7 M	0.09	<0.1	<0.1	0.19	<0.1 M	<0.07	0.61	0.15
	C-Sand	03/25/08	Primary	35	<0.07 M	0.12 M	<0.1	<0.07 M	<1.0	<0.07	1.6	<0.07 M
AW0074UB	B-Sand	05/09/07	Primary	<0.1	<0.1	NR	NR	NR	<0.1	NR	<0.1	NR
	B-Sand	06/19/07	Primary	1.5	<0.07	<0.1	<0.1	<0.07	<0.1	<0.07	<0.07	<0.07
AW0075UB	B-Sand	05/09/07	Primary	154.0	0.2	NR	NR	NR	<2.0	NR	1.12 J	NR
	B-Sand	06/21/07	Primary	140.0	1.8	0.42	<0.1	1.7	1.6	0.14	1.4	0.54
	B-Sand	02/26/08	Primary	160	2.5	<0.1	<0.1	1.4	11	0.16	23	1.1
	B-Sand	03/25/08	Primary	180	4.9	<0.1 UM	<0.1	1.8 M	<10.0	0.45	38	1.7 M
AW0076UB	B-Sand	05/09/07	Primary	576.0	6.97	NR	NR	NR	<1.0	NR	101.0	NR
	B-Sand	06/21/07	Primary	450.0	9.1	0.25	<0.1	2.1	11.0	0.86	90.0	2.0
	B-Sand	02/26/08	Primary	270	25	0.13	<0.1	3.2	8.4 J	1.5	52	3.8
	B-Sand	03/25/08	Primary	360	58	0.34 M	0.33	4.8	<10.0	2.8	90	5.4
AW0077UB	B-Sand	05/10/07	Primary	333.0	36.1	NR	NR	NR	1.0	NR	74.6	NR
	B-Sand	06/20/07	Primary	770.0	66.0	7.0	0.3	6.5	14.0	6.9	97.0	9.7
	B-Sand	02/26/08	Primary	82	1.5	<0.1	<0.1	0.38	<1.0	0.28	2	0.32
	B-Sand	03/25/08	Primary	190	4.3	0.87 M	<0.1	1.3 M	<10.0	0.38	21	1.6 M
EWB001	B-Sand	05/08/07	Primary	0.1	0.1	NR	NR	NR	0.1	NR	0.1	NR
	B-Sand	06/18/07	Primary	0.13	<0.07	<0.1	<0.1	<0.07	0.26	<0.07	<0.07	<0.07

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BOE-C6-0188153

Table 7
Summary of Volatile Fatty Acids Analytical Results
(Units are mg/l)
Boeing Former C-6 Facility
Los Angeles, California

Well I.D.	Category	Sample Date	Sample Type	Acetic Acid	Butyric Acid	Hexanoic Acid	i-Hexanoic Acid	i-Pentanoic Acid	Lactic Acid	Pentanoic Acid	Propionic Acid	Pyruvic Acid
EWB002	B-Sand	06/21/07	Primary	**210.0**	**5.2**	**0.25**	<0.1	**0.9**	**23.0**	**0.51**	**13.0**	**0.97**
	B-Sand	06/21/07	Duplicate	**220.0**	**4.8**	**0.19**	<0.1	**0.83**	**18.0**	**0.5**	**13.0**	**0.9**
	B-Sand	02/26/08	Primary	**120**	**14**	**0.47**	**0.28**	**4.3**	**12**	**1.8**	**34**	**3**
	B-Sand	03/25/08	Primary	**200**	**6.8**	**0.27 M**	<0.1	**5.4**	<10.0	**2.5**	**64**	**4.2**
TMW_07	B-Sand	05/08/07	Primary	**0.1**	**0.1**	**NR**	**NR**	**NR**	**0.1**	**NR**	**0.1**	**NR**
	B-Sand	06/18/07	Primary	**0.18**	<0.07	<0.1	<0.1	<0.07	**0.23**	<0.07	<0.07	**0.19**
	B-Sand	03/25/08	Primary	**0.64 M**	<0.07 M	<0.1 M	<0.1	<0.07 M	<0.1 M	<0.07	<0.07 M	**0.25 M**
WCC_06S	B-Sand	05/08/07	Primary	**7.7**	**0.1**	**NR**	**NR**	**NR**	**0.1**	**NR**	**0.1**	**NR**
	B-Sand	06/19/07	Primary	**2.2**	<0.07	**0.2**	<0.1	<0.07	**0.11**	<0.07	<0.07	<0.07
WCC_12S	B-Sand	05/09/07	Primary	**0.142**	<0.1	**NR**	**NR**	**NR**	<0.1	**NR**	**0.014 J**	**NR**
	B-Sand	06/18/07	Primary	<0.07	<0.07	<0.1	<0.1	<0.07	**0.18**	<0.07	<0.07	**0.12**
	B-Sand	03/25/08	Primary	**0.1 M**	<0.07 M	<0.1 M	<0.1	<0.07 M	<0.1 M	<0.07	<0.07 M	**0.11 M**

Notes:
Bold indicates detected concentration
M = recovery/RPD poor for MS/MSD, SAMP/DUP
< = not detected at a concentration greater than the laboratory reporting limit indicated
J = Estimated concentration detected below the laboratory reporting limit
NR = not reported. The samples from both the May and June 2007 events were analyzed for the VFAs by Ion Chromatography. However, the analysis for the first round samples, analyzed by Applied Sciences report only the four main VFAs. Subsequent rounds of VFA analyses were performed by Microseeps, which reports additional 5- and 6-carbon acids that are used for sites using vegetable substrates and organic substrates other than lactic acid.

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BOE-C6-0188154

Table 8
Summary of Inorganic Analytical Results
(Units are mg/l)
Boeing Former C-6 Facility, Building 1/36
Los Angeles, California

Well I.D.	Category	Sample Date	Sample Type	Alkalinity	Chloride	Nitrate-NO3	Nitrite-NO2	Sulfate
AW0055UB	B-Sand	5/10/2007	Primary	**650**	**580**	<0.5	<10 RL1	**1.8 B**
	B-Sand	6/20/2007	Primary	**560**	**670**	<2.5 RL1	<2.5 RL1	**2.5 B, RL1, J**
	B-Sand	3/25/2008	Primary	**570**	**670**	<0.5	<0.5	**28**
AW0065UB	B-Sand	5/10/2007	Primary	**480**	**720**	<0.5	<10 RL1	<0.5
	B-Sand	6/21/2007	Primary	**650**	**760**	<0.5	<0.5	**4.1**
AW0066UB	B-Sand	5/10/2007	Primary	**500**	**820**	<0.5	<10 RL1	<0.5
	B-Sand	6/20/2007	Primary	**560**	**890**	<2.5 RL1	<2.5 RL1	<2.5 RL1
	B-Sand	3/25/2008	Primary	**1,600**	**600**	<2.5 RL1	<2.5 RL1	**37**
AW0067UB	B-Sand	5/10/2007	Primary	**270**	**290**	**4.4**	<10 RL1	**28**
	B-Sand	6/19/2007	Primary	**370**	**420**	**1.3**	<0.5	**40**
	B-Sand	3/25/2008	Primary	**1,400**	**500**	<2.5 RL1	<2.5 RL1	**29**
AW0073C	C-Sand	5/10/2007	Primary	**210**	**180**	<0.5	<10 RL1	**24**
	C-Sand	6/20/2007	Primary	**270**	**210 MHA**	<0.5 M2, R	<0.5 M1	**7.4**
	C-Sand	1/29/2008	Primary	**240**	**130**	**0.32 J**	<0.5	**9.1**
	C-Sand	2/26/2008	Primary	**230**	**140 M-3**	**0.39 J**	<0.5 M1	**9.5**
	C-Sand	3/25/2008	Primary	**250**	**130**	<0.5	<0.5	**7.4**
AW0074UB	B-Sand	5/9/2007	Primary	**270**	**340**	<0.5	<10 RL1	**21**
	B-Sand	6/19/2007	Primary	**270**	**350**	<0.5	<0.5	**23**
	B-Sand	1/29/2008	Primary	**250**	**380**	**1.4**	<0.5	**19**
	B-Sand	1/29/2008	Primary	**250**	**380**	**1.4**	<0.5	**19**
AW0075UB	B-Sand	5/9/2007	Primary	**460**	**520**	<0.5	<10 RL1	**11**
	B-Sand	6/21/2007	Primary	**510**	**540**	<0.5	<0.5	**10**
AW0065UB	B-Sand	5/10/2007	Duplicate	**460**	**730**	<0.5	<10 RL1	<0.5
AW0075UB	B-Sand	1/30/2008	Primary	**450**	**510**	<1 RL1	**1.4**	**4**
	B-Sand	2/26/2008	Primary	**510**	**530**	<1 RL1	<1 RL1	**2.4**
	B-Sand	3/25/2008	Primary	**480**	**560**	<0.5	<0.5	**3.3**
AW0076UB	B-Sand	5/9/2007	Primary	**620**	**760**	<0.5	<10 RL1	<0.5
	B-Sand	6/21/2007	Primary	**760**	**810**	<0.5	<0.5	<0.5
	B-Sand	1/30/2008	Primary	**710**	**820**	<1 RL1	**3.2**	<1 RL1
	B-Sand	2/26/2008	Primary	**700**	**650**	<2.5 RL1	<2.5 RL1	<2.5 RL1
	B-Sand	3/25/2008	Primary	**800**	**640**	<1 RL1	<1 RL1	**0.52 RL1, J**
AW0077UB	B-Sand	5/10/2007	Primary	**650**	**640**	<2.5 RL1	<2.5 RL1	**2.7**
	B-Sand	6/20/2007	Primary	**870**	**610**	<2.5 RL1	<2.5 RL1	<2.5 RL1
	B-Sand	1/30/2008	Primary	**610**	**500**	<1 RL1	<1 RL1	**3.2**
	B-Sand	2/26/2008	Primary	**610**	**480**	<1 RL1	<1 RL1	**0.8 RL1, J**
	B-Sand	3/25/2008	Primary	**620**	**500**	<0.5	<0.5	<0.5
EWB001	B-Sand	5/8/2007	Primary	**210**	**370**	**7.8**	<10 RL1	**21**
	B-Sand	6/18/2007	Primary	**190**	**420**	**1.2**	<0.5	**27**
EWB002	B-Sand	6/21/2007	Primary	**450**	**530**	**3.4**	<0.5	**18**
	B-Sand	6/21/2007	Duplicate	**460**	**530**	**3.4**	<0.5	**18**
	B-Sand	12/12/2007	Primary	**550**	**650**	<0.5	**1.4**	**0.35 J**
	B-Sand	1/29/2008	Primary	**550**	**490**	<1 RL-1	<1 RL1	**0.48 RL1, J**
	B-Sand	2/26/2008	Primary	**540**	**500**	<1 RL1	<1 RL1	<1 RL1
	B-Sand	3/25/2008	Primary	**600**	**490**	<0.5	<0.5	**0.58**
TMW_07	B-Sand	5/8/2007	Primary	**310**	**230**	**34**	<10 RL1	**81**
	B-Sand	6/18/2007	Primary	**330**	**250**	**40**	<0.5	**110**
	B-Sand	3/25/2008	Primary	**350**	**240 MHA**	**42**	<0.5	**100**
WCC_06S	B-Sand	5/8/2007	Primary	**340**	**590**	**9.7**	<10 RL1	**21**
	B-Sand	6/19/2007	Primary	**140**	**920**	**7.1**	<0.5	**43**
	B-Sand	1/29/2008	Primary	**40**	**8.3**	**0.59**	<0.5	**4.4**
WCC_12S	B-Sand	5/9/2007	Primary	**180**	**180**	**22**	<10 RL1	**480**
	B-Sand	6/18/2007	Primary	**180**	**380**	**28**	<0.5	**440**
	B-Sand	9/21/2007	Primary	**170**	**340**	**22**	<0.5	**310**
	B-Sand	3/25/2008	Primary	**180**	**220**	**19**	<0.5	**410**

Notes:
Bold indicates detected concentration
< = Not detected at a concentration greater than the laboratory reporting limit (RL) indicated
B = analyte was detected in the associated Method Blank
J = estimated value; result below RL and above or equal to MDL (method detection limit)
M1 = the MS and/or MSD were above the acceptance limits due to sample matrix interference
M-3 = results exceeded the linear range in the MS/MSD and, therefore, are not available for reporting
MHA = due to high levels of analyte in the sample, the MS/MSD calculation does not provide useful spike recovery information
RL1 = reporting limit raised due to sample matrix effects

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Table 9
Summary of Dehalococcoides Bacteria and Functional Gene Analytical Results
Boeing Former C-6 Facility, Building 1/36
Los Angeles, California

Well I.D.	Category	Sample Date	Sample Type	Dehalococcoides 16S rDNA	Dehalococcoides tceA	Dehalococcoides bvcA	Dehalococcoides vcrA
AW0055UB	B-Sand	05/10/07	Primary	ND	ND	ND	ND
	B-Sand	06/20/07	Primary	ND	ND	**8.6E+02 ± 6.76E+02 J**	ND
AW0064UB	B-Sand	05/09/07	Primary	ND	ND	ND	ND
	B-Sand	06/20/07	Primary	ND	ND	ND	ND
AW0065UB	B-Sand	05/10/07	Primary	ND	ND	ND	ND
	B-Sand	05/10/07	Duplicate	ND	ND	ND	ND
	B-Sand	06/21/07	Primary	ND	ND	ND	ND
AW0066UB	B-Sand	05/10/07	Primary	ND	ND	**1.8E+05 ± 3.69E+04**	ND
	B-Sand	06/20/07	Primary	ND	ND	ND	ND
AW0067UB	B-Sand	05/10/07	Primary	ND	ND	ND	ND
	B-Sand	06/19/07	Primary	ND	ND	ND	ND
AW0073C	C-Sand	05/10/07	Primary	ND	ND	ND	ND
	C-Sand	06/20/07	Primary	ND	ND	ND	ND
	C-Sand	01/29/08	Primary	**5.58E+07 ± 1.11E+07**	ND	**5.2E+07 ± 2.92E+06**	ND
	C-Sand	03/25/08	Primary	**1.26E+08 ± 1.86E+07**	**2.83E+04 ± 1.24E+04 J**	**1.69E+07 ± 1.69E+06**	ND
AW0074UB	B-Sand	05/09/07	Primary	ND	ND	ND	**2.4E+02 ± 1.64E+02 J**
	B-Sand	06/19/07	Primary	**3.56E+03 ± 4.61E+03 J**	ND	**2.50E+02 ± 9.40E+01 J**	ND
	B-Sand	01/29/08	Primary	**9.46E+02 ± 4.53E+02 J**	ND	**1.7E+03 ± 4.31E+02 J**	ND
AW0075UB	B-Sand	05/09/07	Primary	ND	ND	ND	**5.6E+02 ± 2.47E+02 J**
	B-Sand	06/21/07	Primary	ND	ND	ND	ND
	B-Sand	01/30/08	Primary	**1.11E+08 ± 8.41E+07**	ND	**1.2E+08 ± 4.10E+06**	ND
	B-Sand	03/25/08	Primary	**2.95E+08 ± 1.94E+07**	**3.37E+06 ± 6.45E+05**	**4.23E+07 ± 1.42E+06**	ND
AW0076UB	B-Sand	05/09/07	Primary	ND	ND	ND	ND
	B-Sand	06/21/07	Primary	ND	ND	**2.7E+02 ± 1.53E+02 J**	ND
	B-Sand	01/30/08	Primary	**4.31E+08 ± 1.20E+07**	ND	**4.4E+08 ± 8.08E+07**	ND
	B-Sand	03/25/08	Primary	**4.30E+08 ± 2.77E+07**	**3.46E+07 ± 3.58E+06**	**8.45E+07 ± 1.21E+07**	ND
AW0077UB	B-Sand	05/10/07	Primary	ND	ND	ND	**3.9E+02 ± 1.76E+02 J**
	B-Sand	06/20/07	Primary	ND	ND	ND	ND
	B-Sand	01/30/08	Primary	**8.22E+08 ± 1.65E+08**	ND	**7.2E+09 ± 7.25E+08**	ND
	B-Sand	03/25/08	Primary	**1.74E+09 ± 2.94E+08**	**7.25E+03 ± 6.24E+03 J**	**1.83E+08 ± 2.93E+07**	ND
EWB001	B-Sand	05/09/07	Primary	**6.05E+01 ± 4.36E+01 J**	ND	ND	ND
	B-Sand	06/19/07	Primary	ND	ND	**3.10E+04 ± 1.46E+04 J**	ND
EWB002	B-Sand	06/21/07	Primary	ND	ND	**1.2E+03 ± 8.04E+02 J**	ND
	B-Sand	06/21/07	Duplicate	ND	ND	ND	ND
	B-Sand	01/29/08	Primary	**4.14E+09 ± 2.43E+08**	**5.14E+09 ± 6.85E+08**	**2.5E+08 ± 1.51E+07**	ND
	B-Sand	03/25/08	Primary	**1.13E+09 ± 1.58E+08**	**1.18E+09 ± 1.47E+08**	**4.70E+06 ± 1.36E+05**	ND
EWC001	B-Sand	06/19/07	Primary	ND	ND	**7.00E+03 ± 7.53E+03 J**	ND
TMW_07	B-Sand	05/09/07	Primary	ND	ND	ND	ND
	B-Sand	06/19/07	Primary	ND	ND	ND	ND
WCC_06S	B-Sand	05/09/07	Primary	ND	ND	ND	ND
	B-Sand	06/19/07	Primary	**6.48E+06 ± 1.84E+06**	ND	**1.1E+06 ± 8.52E+04**	ND
	B-Sand	01/29/08	Primary	**9.27E+04 ± 1.67E+04**	ND	**5.6E+04 ± 4.84E+03**	ND
WCC_12S	B-Sand	05/09/07	Primary	ND	ND	ND	ND
	B-Sand	06/19/07	Primary	**7.78E+03 ± 4.86E+03 J**	ND	**1.10E+03 ± 5.76E+02 J**	ND
	B-Sand	09/21/07	Primary	**1.90E+04 ± 1.37E+03**	ND	**1.8E+04 ± 2.95E+03**	ND

Notes:
All results are reported in gene copies/liter groundwater
ND = not detected at a concentration greater than the laboratory reporting limit of 50 gene copies/microliter (µl) of DNA extraction
J = value presented is below the reporting limit (50 gene copies/µl of DNA extraction).

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Table 10
Amendment Injection Summary
Boeing Former C-6 Facility, Building 1/36
Los Angeles, California

Date	Total Amendment Quantity (Injections performed only in Wells AW0066UB and AW0067UB)[1]		
	Electron Donor (Whey) (dry quantity - lb)	**Electron Donor Solution** (gallons)	**Bioaugmentation Culture** (liters)
12/20/07	85	5,600	0
12/21/07[2]	146	5,934	0
01/07/08	176	761	0
01/08/08	468	1,579	0
01/10/08	614	1,982	0
01/15/08	644	1,995	0
01/16/08	644	1,896	0
01/22/08	293	1,339	0
01/23/08	322	1,185	0
01/29/08	205	711	0
01/30/08	322	1,352	0
01/31/08	322	1,012	0
02/01/08	205	1,290	0
02/06/08	88	429	0
02/07/08	263	1,628	0
02/26/08	380	1,391	0
02/27/08	293	1,022	0
02/28/08	322	1,078	0
03/26/08	59	326	0
03/27/08	585	2,921	0
03/28/08	643.5	2,378	0
03/31/08	702	2,677	0
Totals	**7,778**	**40,486**	**0**

Notes:
lb = pounds
(1) Well AW0066UB is screened from 69.5 feet bgs to 89.5 feet below ground surface (bgs), while Well AW0067UB is screened from 70 feet bgs to 90 feet bgs.
(2) The electron donor quantity was incorrectly reported in the Fourth Quarter 2007 WDR Report as 215 lb.

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FIGURES

BOE-C6-0188158

Figures

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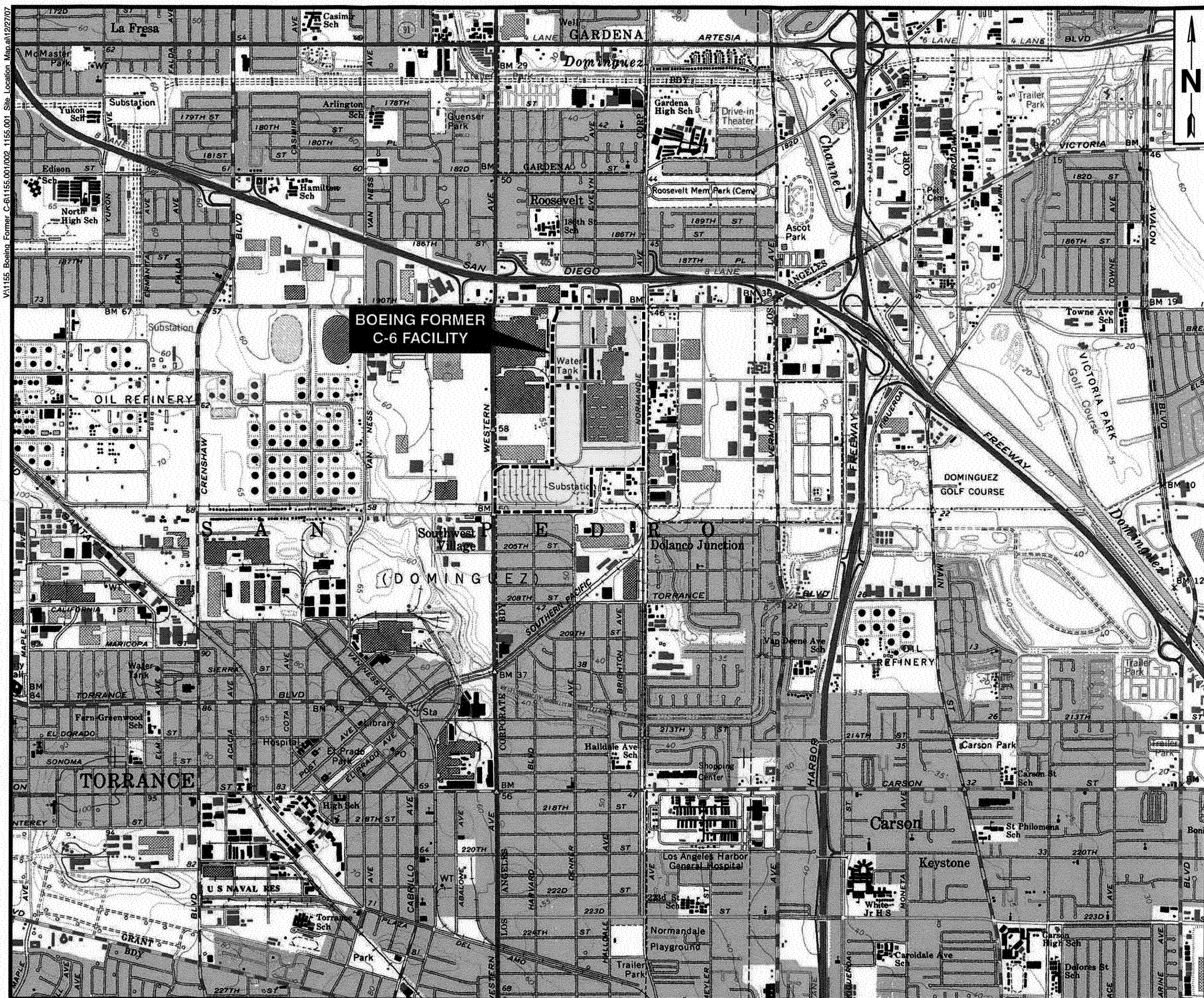

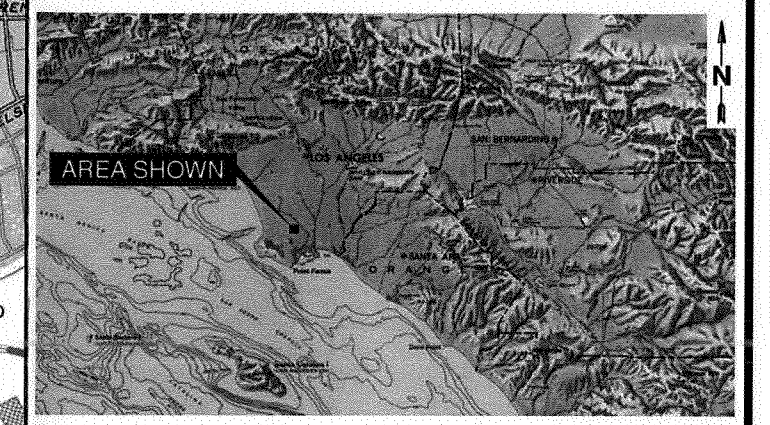

SITE VICINITY MAP

NOT TO SCALE

REFERENCE:
7.5 MINUTE U.S.G.S. TOPOGRAPHIC
MAP OF TORRANCE, CALIFORNIA
DATED: 1964
PHOTOREVISED: 1981

0 2000 4000 FEET

APPROXIMATE
SCALE

FIGURE 1

SITE LOCATION MAP

BOEING CORPORATE REAL ESTATE
FORMER C-6 FACILITY
LOS ANGELES, CALIFORNIA

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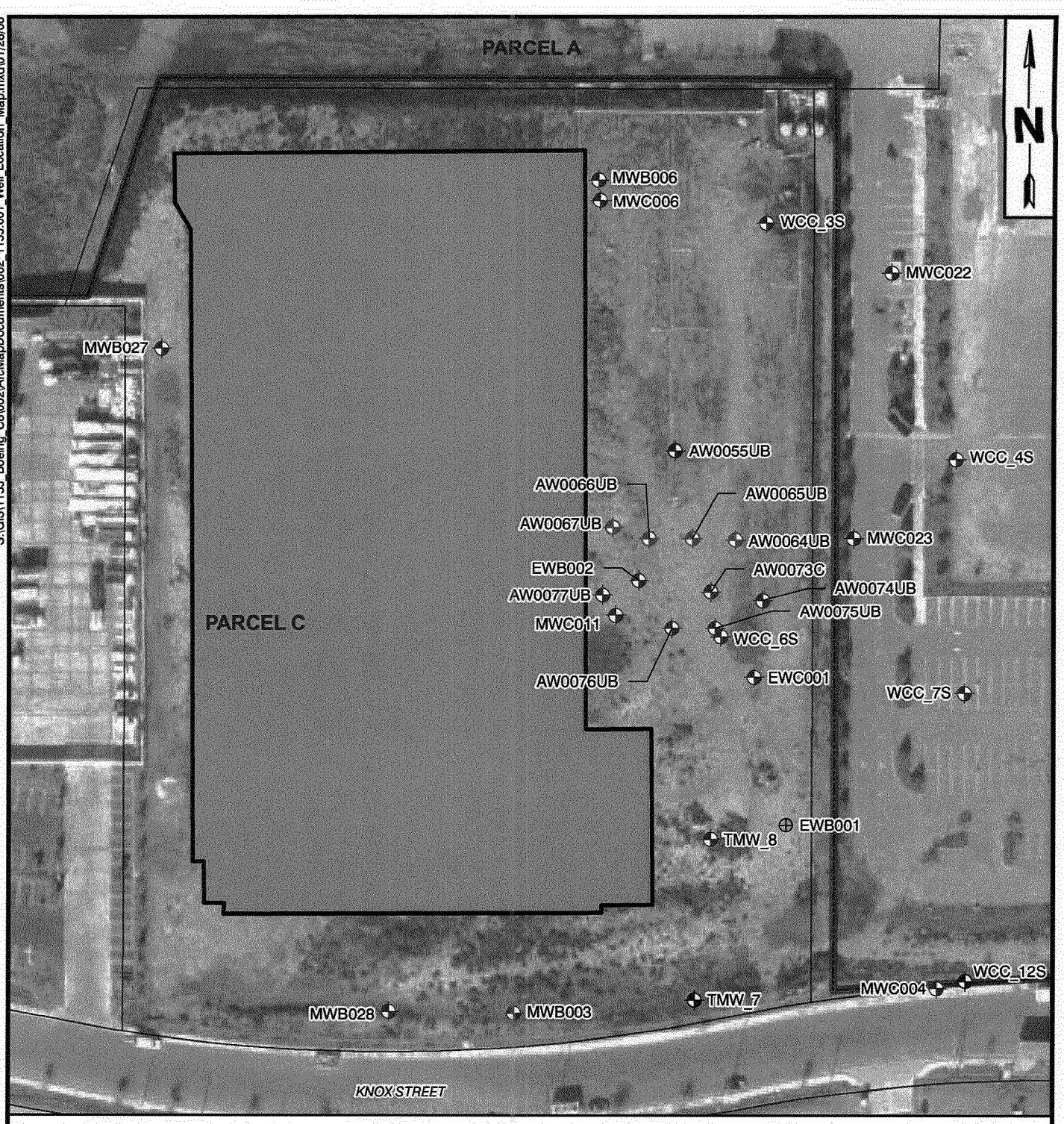
V:\1155 Boeing Former C-6\1155.001/002 1155.001 Site Location Map.ai\12/27/07

BOE-C6-0188160

S:\GIS\1155_Boeing_C6\002\ArcMapDocuments\002_1155.001_Well_Location_Map.mxd\01/28/08



LEGEND

- Group A WDR Monitoring Well
- Group B WDR Monitoring Well
- Group C WDR Monitoring Well
- Group D WDR Monitoring Well
- Pilot Test Groundwater Extraction Well
- Non-WDR Groundwater Monitoring Well
- 1451 Knox St.
- Parcel Boundary

0 100 200

SCALE

FIGURE 2

WDR WELL LOCATION MAP

BOEING CORPORATE REAL ESTATE
FORMER C-6 FACILITY
LOS ANGELES, CALIFORNIA

AVOCET ENVIRONMENTAL, INC.

S:\GIS\1155_Boeing_C6\1155.006_Groundwater_Monitoring_2008\ArcMapDocuments\001_1155.006_B-sand_GW_Elevevations_032408.mxd\04/25/08

LEGEND

- B-Sand IRZ Bioremediation Monitoring Well
- B-Sand Montrose Monitoring Well
- B-Sand Monitoring Well
- B-Sand Observation Well
- -7.3 — Approximate Water Level Elevation, Feet Mean Sea Level, * Indicates Not Used in Contouring
- -7 — Approximate Water Level Elevation, Feet Mean Sea Level, Dashed where Inferred
- 1451 Knox St.
- Parcel Boundary

0 300 600
SCALE

FIGURE 3

B-SAND GROUNDWATER ELEVATIONS MARCH 24, 2008

BOEING CORPORATE REAL ESTATE
FORMER C-6 FACILITY
LOS ANGELES, CALIFORNIA

AVOCET ENVIRONMENTAL, INC.

APPENDIX A

BOE-C6-0188163

Appendix A

Groundwater Sampling Data Sheets

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GROUNDWATER SAMPLING DATA SHEET

Project Name: Boeing Former C-6 - January 2008 WDR		**Date:** Jan 29, 2008	
Project No.: 1155.003		**Prepared by:** Brian Barsumian	
Well Identification EWB002		**Weather:** Overcast	
Measurement Point Description TOC-N		**Pump Intake:** 75'	**Screen:** 60-90'

A	B	C	D	E	G				
Depth to LNAPL (ft-bmp)	**Depth to Static Water Level** (ft-bmp)	**Well Total Depth** (ft-bmp)	**Water Column Height** (ft) (C-B=D)	**LNAPL Thickness** (ft) (B-A=E)	**One Casing Volume** (gallons) (DxF=G)	**Three Casing Volumes** (gallons) (Gx3)	**One-Half Casing Volume** (G/2)	**Above Screen Volume** (top screen - DTW) x F	**Screen Volume** (screen length x F)
—	60.71	94.34	33.63	—	NA	NA	NA	NA	NA

	Gallons/Foot			
Well Diameter (inches)	0.75	2	4	6
(F) - **Gallons per foot of casing**	0.02	0.16	0.65	1.47

Field Equipment: QED multi-parameter meter,

Purge Method: Low Flow - dedicated tubing - Bladder Pump

Well Condition: Well cover not bolted down

	Time	Casing/ Screen	Volume Purged ~~(gallons)~~ L	Flow Rate ~~(gpm)~~ (ml/min)	Water Level (ft-bmp)	pH	Temperature (°C)	Turbidity (NTU)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Observations
	1245		0	340 ml/min	< 60.75	6.63	21.66	—	2.88	1.44	-234	moderate sewage odor, m. gray
	1250		1.7 L			6.64	21.67	-	2.89	0.33	-243	
	1255		3.4			6.62	21.65	-	2.90	0.52	-246	
	1300		5.1			6.65	21.68	-	2.93	0.37	-251	
*	1257		4.4			6.63	21.68	-	2.91	0.45	-248	
*	1300		5.1			6.65	21.68	-	2.93	0.37	-251	
*	1303		6.1			6.65	21.67	-	2.94	0.30	-252	

Purge Start Time	Purge End Time	Average Flow ~~(gpm)~~ (ml/min)	Total ~~Gallons~~ L Purged	Total Casing Volumes Purged	80% Recovery Water Level Depth (Dx0.20) + B	Water Level at Sampling Time (ft bmp)	Sample Collection Time	Sample Identification
1245	1303	340 ml/m	6.1 L	NA	NA	< 60.75	1307	EWB002-WG20080129-0001

Notes: Ferrous Iron = 3.30 mg/L

PID = 18.7 ppm

* Achieved stability

Duplicate samples collected (as above) -0002

12:25 - moved transducer in EWB002

BOE-C6-0188165

AVOCET ENVIRONMENTAL, INC.

GROUNDWATER SAMPLING DATA SHEET

Project Name: BOEING FORMER C-6 - JANUARY 2008 WDR	**Date:** JANUARY 29, 2008
Project No.: 1155.003	**Prepared by:** DAB + CBJ
Well Identification ~~[illegible]~~ WCC_06S	**Weather:** ~~Sunny/Cool~~ OVERCAST
Measurement Point Description TOC-N	**Pump Intake:** 75' **Screen:** 60'-90'

A	B	C	D	E	G				
Depth to LNAPL (ft-bmp)	**Depth to Static Water Level** (ft-bmp)	**Well Total Depth** (ft-bmp)	**Water Column Height** (ft) (C-B=D)	**LNAPL Thickness** (ft) (B-A=E)	**One Casing Volume** (gallons) (DxF=G)	**Three Casing Volumes** (gallons) (Gx3)	**One-Half Casing Volume** (G/2)	**Above Screen Volume** (top screen - DTW) x F	**Screen Volume** (screen length x F)
—	59.79	85.05	25.26	—	N/A	N/A	N/A	N/A	N/A

	Gallons/Foot			
Well Diameter (inches)	0.75	2	(4)	6
(F) - **Gallons per foot of casing**	0.02	0.16	0.65	1.47

Field Equipment: QED MULTIPARAMETER METER
Purge Method: QED SAMPLE PRO PNEUMATIC BLADDER PUMP
Well Condition: GOOD - NO BOLTS

Time	Casing/ Screen	Volume Purged ~~(gallons)~~ L	Flow Rate ~~(gpm)~~ (ml/min)	Water Level (ft-bmp)	pH	Temperature (°C)	Turbidity (NTU)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Observations
8:33		0	280	59.79	7.16	20.19	—	0.139	6.71	59	Clear
8:36		0.84	280	<60.10	7.60	20.77	—	0.136	5.91	70	Clear
8:39		1.7	280	<60.10	7.79	20.75	—	0.136	5.49	77	Clear
8:42		2.5	280	<60.10	7.72	20.75	—	0.136	5.41	79	
8:45		3.4	280	<60.10	7.78	20.68	—	0.138	5.41	81	Clear
8:48		4.2	280	<60.10	7.83	20.83	—	0.138	5.36	80	
8:51		5.0	280	<60.10	7.83	20.75	—	0.138	5.31	79	Clear

Purge Start Time	Purge End Time	Average Flow ~~(gpm)~~ (ml/min)	Total ~~Gallons~~ L Purged	Total Casing Volumes Purged	80% Recovery Water Level Depth (Dx0.20) + B	Water Level at Sampling Time (ft bmp)	Sample Collection Time	Sample Identification
8:33	8:51	280	5.0	N/A	N/A	<60.10	8:51	WCC_06S_WG20080129_0001

Notes: FERROUS IRON = 3.16 mg/L
PID = 0.0 ppm
CHEMETRICS D.O. NM mg/L at NM (TIME)

BOE-C6-0188166

AVOCET ENVIRONMENTAL, INC.

GROUNDWATER SAMPLING DATA SHEET

Project Name: BOEING FORMER C-6 - JANUARY 2008 WDR	**Date:** JANUARY 29, 2008
Project No.: 1155.003	**Prepared by:** DAB + CBJ
Well Identification AW0073C	**Weather:** ~~Sunny/Cool~~ OVERCAST
Measurement Point Description TOC-N	**Pump Intake:** 106' **Screen:** 96'-116'

A	B	C	D	E	G				
Depth to LNAPL (ft-bmp)	Depth to Static Water Level (ft-bmp)	Well Total Depth (ft-bmp)	Water Column Height (ft) (C-B=D)	LNAPL Thickness (ft) (B-A=E)	One Casing Volume (gallons) (DxF=G)	Three Casing Volumes (gallons) (Gx3)	One-Half Casing Volume (G/2)	Above Screen Volume (top screen - DTW) x F	Screen Volume (screen length x F)
—	60.55	117.50	56.95	—	N/A	N/A	N/A	N/A	N/A

	Gallons/Foot			
Well Diameter (inches)	0.75	(2)	4	6
(F) - Gallons per foot of casing	0.02	0.16	0.65	1.47

Field Equipment: QED MULTIPARAMETER METER
Purge Method: QED SAMPLE PRO PNEUMATIC BLADDER PUMP
Well Condition: GOOD - NOT BOLTED

Time	Casing/ Screen	Volume Purged ~~(gallons)~~ L	Flow Rate ~~(gpm)~~ (ml/min)	Water Level (ft-bmp)	pH	Temperature (°C)	Turbidity (NTU)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Observations
11:15		0	220	60.55	6.83	20.29	-	1.072	3.75	-251	GRAY, mod H_2S odor
11:24		2.25	250	<60.75	7.04	21.26	-	1.099	1.81	-255	Gray
11:29		3.50	250	<60.75	7.06	21.79	-	1.128	1.14	-269	mod. H_2S odor
11:34		4.75	250	<60.75	7.06	21.69	-	1.093	0.75	-271	Gray
11:39		6.0	250	<60.75	7.06	21.58	-	1.057	0.52	-282	H_2S Odor
11:44		7.25	250	<60.75	7.10	21.57	-	1.007	0.33	-294	↓
11:48		8.5	250	<60.75	7.10	21.59	-	0.999	0.25	-293	↓

Purge Start Time	Purge End Time	Average Flow ~~(gpm)~~ (ml/min)	Total ~~Gallons~~ L Purged	Total Casing Volumes Purged	80% Recovery Water Level Depth (Dx0.20) + B	Water Level at Sampling Time (ft bmp)	Sample Collection Time	Sample Identification
11:15	11:48	250	8.5	N/A	N/A	<60.75	11:53	AW0073C_WG20080129_0001

Notes: FERROUS IRON = 2.70 mg/L
PID = 9.5 ppm
CHEMETRICS D.O. 0.4 mg/L at 11:51 (TIME)

BOE-C6-0188167

AVOCET ENVIRONMENTAL, INC.

GROUNDWATER SAMPLING DATA SHEET

Project Name: BOEING FORMER C-6 - JANUARY 2008 WDR	Date: JANUARY 29, 2008
Project No.: 1155.003	Prepared by: DAB + CBJ
Well Identification AW0074UB	Weather: ~~SUNNY/COOL~~ OVERCAST
Measurement Point Description TOC-N	Pump Intake: 80' / Screen: 70' - 90'

A	B	C	D	E	G				
Depth to LNAPL (ft-bmp)	Depth to Static Water Level (ft-bmp)	Well Total Depth (ft-bmp)	Water Column Height (ft) (C-B=D)	LNAPL Thickness (ft) (B-A=E)	One Casing Volume (gallons) (DxF=G)	Three Casing Volumes (gallons) (Gx3)	One-Half Casing Volume (G/2)	Above Screen Volume (top screen - DTW) x F	Screen Volume (screen length x F)
—	59.89	88.55	28.66	—	N/A	N/A	N/A	N/A	N/A

	Gallons/Foot			
Well Diameter (inches)	0.75	(2)	4	6
(F) - Gallons per foot of casing	0.02	0.16	0.65	1.47

Field Equipment: QED MULTIPARAMETER METER
Purge Method: QED SAMPLE PRO PNEUMATIC BLADDER PUMP
Well Condition: GOOD - NOT BOLTED - SOME STANDING WATER

Time	Casing/ Screen	Volume Purged ~~(gallons)~~ L	Flow Rate ~~(gpm)~~ (ml/min)	Water Level (ft-bmp)	pH	Temperature (°C)	Turbidity (NTU)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Observations
09:51		0.0	240	59.89	6.91	21.42	—	1.73	1.48	49	lt yellow
09:54		0.72	250	<60.14	6.92	21.64	—	1.73	1.05	39	
09:57		1.5	250	<60.14	6.92	21.74	—	1.73	0.86	26	lt. yellow translucent.
10:03		3.0	250	<60.14	6.87	21.85	—	1.73	1.08*	2	
10:07		4.0	250	59.76	6.86	21.90	—	1.73	1.00	-4	lt. yellow translucent
10:10		4.7	250	59.77	6.88	22.04	—	1.74	0.9	-9	
10:17		6.5	250	59.77	6.86	21.9	—	1.75	0.8	-18	v. lt. yellow translucent

Purge Start Time	Purge End Time	Average Flow ~~(gpm)~~ ml/min	Total ~~Gallons~~ L Purged	Total Casing Volumes Purged	80% Recovery Water Level Depth (Dx0.20) + B	Water Level at Sampling Time (ft bmp)	Sample Collection Time	Sample Identification
9:51	10:17	250	6.5	N/A	N/A	59.77	10:17	AW0074UB_WG20080129_01

Notes: FERROUS IRON = 1.10 mg/L
PID = 9.2 ppm
CHEMETRICS D.O. 1.0 mg/L at 10:03 (TIME)

BOE-C6-0188168

AVOCET ENVIRONMENTAL, INC.

GROUNDWATER SAMPLING DATA SHEET

Project Name: BOEING FORMER C-6 - JANUARY 2008 WDR	**Date:** JANUARY 30, 2008
Project No.: 1155.003	**Prepared by:** DAB + CBJ
Well Identification AW0075UB	**Weather:** SUNNY / COOL
Measurement Point Description TOC-N	**Pump Intake:** 79' **Screen:** 69'-89'

A	B	C	D	E	G				
Depth to LNAPL (ft-bmp)	Depth to Static Water Level (ft-bmp)	Well Total Depth (ft-bmp)	Water Column Height (ft) (C-B=D)	LNAPL Thickness (ft) (B-A=E)	One Casing Volume (gallons) (DxF=G)	Three Casing Volumes (gallons) (Gx3)	One-Half Casing Volume (G/2)	Above Screen Volume (top screen - DTW) x F	Screen Volume (screen length x F)
—	60.30	88.72	28.42	—	N/A	N/A	N/A	N/A	N/A

	Gallons/Foot			
Well Diameter (inches)	0.75	(2)	4	6
(F) - Gallons per foot of casing	0.02	0.16	0.65	1.47

Field Equipment: QED MULTIPARAMETER METER
Purge Method: QED SAMPLE PRO PNEUMATIC BLADDER PUMP
Well Condition: GOOD - NOT BOLTED

Time	Casing/ Screen	Volume Purged ~~(gallons)~~ liters	Flow Rate ~~(gpm)~~ (ml/min)	Water Level (ft-bmp)	pH	Temperature (°C)	Turbidity (NTU)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Observations
8:06		0	330	60.3	6.87	21.05	—	1.95	3.08	-178	turbid
8:11		1.69	330	<60.55	6.87	21.41	—	2.08	0.94	-213	turbid
8:16		3.3	330	<60.55	6.89	21.55	—	2.09	0.44	-227	turbid
8:26		~~4.95~~ 6.6	330	<60.55	6.77	21.68	—	2.32	0.16	-242	Clearing
8:31		8.25	330	<60.55	6.74	21.67	—	2.41	0.14	-241	Clearing
8:36		9.9	330	<60.55	6.75	21.69	—	2.44	0.14	-243	Clearing
8:39		10.9	330	<60.55	6.74	21.71	—	2.44	0.13	-244	Clearing

Purge Start Time	Purge End Time	Average Flow (gpm) ml/min	Total ~~Gallons~~ liters Purged	Total Casing Volumes Purged	80% Recovery Water Level Depth (Dx0.20) + B	Water Level at Sampling Time (ft bmp)	Sample Collection Time	Sample Identification
8:06	8:39	330	10.9	N/A	—	<60.55	8:44	AW0075UB_WG20080130_0001

Notes: FERROUS IRON = 3.30 mg/L
PID = 12.7 ppm
CHEMETRICS D.O. N/A mg/L at N/A (TIME)
DECON. BLANK AFTER THIN SAMPLE: EB_AV20080130_01

BOE-C6-0188169

AVOCET ENVIRONMENTAL, INC.

GROUNDWATER SAMPLING DATA SHEET

Project Name: BOEING FORMER C-6 - JANUARY 2008 WDR		Date: JANUARY 30, 2008	
Project No.: 1155.003		Prepared by: DAB + CBJ	
Well Identification AW0076UB		Weather: SUNNY/COOL 65°F	
Measurement Point Description TOC-N		Pump Intake: 79'	Screen: 69'-89'

A	B	C	D	E	G				
Depth to LNAPL (ft-bmp)	Depth to Static Water Level (ft-bmp)	Well Total Depth (ft-bmp)	Water Column Height (ft) (C-B=D)	LNAPL Thickness (ft) (B-A=E)	One Casing Volume (gallons) (DxF=G)	Three Casing Volumes (gallons) (Gx3)	One-Half Casing Volume (G/2)	Above Screen Volume (top screen - DTW) x F	Screen Volume (screen length x F)
—	60.71	88.57	27.86	—	N/A	N/A	N/A	N/A	N/A

	Gallons/Foot			
Well Diameter (inches)	0.75	(2)	4	6
(F) - Gallons per foot of casing	0.02	0.16	0.65	1.47

Field Equipment: QED MULTIPARAMETER METER

Purge Method: QED SAMPLE PRO PNEUMATIC BLADDER PUMP

Well Condition: GOOD - NOT BOLTED

Time	Casing/ Screen	Volume Purged ~~(gallons)~~ L	Flow Rate ~~(gpm)~~ (ml/min)	Water Level (ft-bmp)	pH	Temperature (°C)	Turbidity (NTU)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Observations
11:44		0.0	240	60.71	6.56	21.67	—	3.61	1.89	-153	
11:49		1.2	240	<61.01	6.54	21.57	—	3.85	0.28	-194	
11:54		2.4	240	<61.01	6.52	21.59	—	3.90	0.17	-201	
12:04		4.8	240	<61.01	6.53	21.63	—	4.01	0.12	-203	
12:09		6.0	240	<61.01	6.53	21.63	—	3.91	0.11	-197	
12:11		6.48	240	<61.01	6.50	21.63	—	3.94	0.12	-195	
12:14		7.2	240	<61.01	6.52	21.70	—	3.96	0.12	-195	

Purge Start Time	Purge End Time	Average Flow ~~(gpm)~~ ml/min	Total ~~Gallons~~ L Purged	Total Casing Volumes Purged	80% Recovery Water Level Depth (Dx0.20) + B	Water Level at Sampling Time (ft bmp)	Sample Collection Time	Sample Identification
11:44	12:14	240	7.2	—	—	<61.01	12:17	AW0076UB_WG20080130_01

Notes: FERROUS IRON = 3.30 mg/L

PID = 25.5 ppm

CHEMETRICS D.O. NM mg/L at NM (TIME)

BOE-C6-0188170

AVOCET ENVIRONMENTAL, INC.

GROUNDWATER SAMPLING DATA SHEET

Project Name: BOEING FORMER C-6 - JANUARY 2008 WDR	Date: JANUARY 30, 2008
Project No.: 1155.003	Prepared by: DAB + CBJ
Well Identification AW0077UB	Weather: SUNNY/COOL
Measurement Point Description TOC-N	Pump Intake: 78' Screen: 70.5'-85.5'

A	B	C	D	E	G				
Depth to LNAPL (ft-bmp)	Depth to Static Water Level (ft-bmp)	Well Total Depth (ft-bmp)	Water Column Height (ft) (C-B=D)	LNAPL Thickness (ft) (B-A=E)	One Casing Volume (gallons) (DxF=G)	Three Casing Volumes (gallons) (Gx3)	One-Half Casing Volume (G/2)	Above Screen Volume (top screen - DTW) x F	Screen Volume (screen length x F)
—	61.21	83.45	22.24	—	N/A	N/A	N/A	N/A	N/A

	Gallons/Foot			
Well Diameter (inches)	0.75	(2)	4	6
(F) - Gallons per foot of casing	0.02	0.16	0.65	1.47

Field Equipment: QED MULTIPARAMETER METER
Purge Method: QED SAMPLE PRO PNEUMATIC BLADDER PUMP
Well Condition: GOOD - LID NOT BOLTED.

Time	Casing/ Screen	Volume Purged ~~(gallons)~~ (Liters)	Flow Rate ~~(gpm)~~ (ml/min)	Water Level (ft-bmp)	pH	Temperature (°C)	Turbidity (NTU)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Observations
9:54		0	250	<61.51	6.47	23.18	—	2.35	2.22	-170	
9:59		1.25	210	<61.51	6.35	21.35	—	3.27	0.74	-184	
10:04		2.30	210	<61.51	6.49	21.41	—	2.97	0.32	-207	
10:09		3.35	210	<61.51	6.51	21.38	—	2.94	0.20	-215	
10:12		4.0	210	<61.51	6.53	21.33	—	2.92	0.19	-217	

Purge Start Time	Purge End Time	Average Flow ~~(gpm)~~ (lpm)	Total ~~Gallons~~ (liters) Purged	Total Casing Volumes Purged	80% Recovery Water Level Depth (Dx0.20) + B	Water Level at Sampling Time (ft bmp)	Sample Collection Time	Sample Identification
9:54	10:12	220	4	N/A	—	<61.51	10:14	AW0077UB_WG_20080130_01

Notes: FERROUS IRON = 1.66 mg/L
PID = 27.0 ppm
CHEMETRICS D.O. N/A mg/L at N/A (TIME)

BOE-C6-0188171

AVOCET ENVIRONMENTAL, INC.
16 Technology Drive, Suite 154
Irvine, California 92618-2327
TEL (949) 296-0977
FAX (949) 296-0978

Boeing CoC No. AVO20080130A

CHAIN OF CUSTODY RECORD

Project Information:

Site Name	Boeing Former C-6 Facility - Building 1/36
Site Address	Los Angeles, CA
Project No.	1155.002
Project Manager	Michael Rendina
Sampled By	Darren Brandner
Turn-Around-Time	Standart TAT, 48 hr holding time for NO_3

Analyses

Sample Identification	Sample Date	Sample Time	Matrix	No. of Cntnrs.	Lab I.D. Number	VOCs inc. fuel oxys (EPA 8260B)	TOC (EPA 9060)	VFA by IC Method 8M23G (Microseeps, Ing. Pittsburgh, PA)	Dissolved Gases (Ethane, Ethene, and Methane by RSK 175)	Dissolved Minerals (sulfate, Nitrate, nitrite, and chloride) by EPA Method 300	Total Alkalinity by EPA Method 310	Quantitative Polymerase Chain Reaction (qPCR) analysis for DHC 16S rRNA gene and functional genes tceA, bvcA, and vcrA (North Wind, Inc., Pocatello, ID)	Total Dissolved Solids (TDS) EPA160.1	Comments
TB_AV20080130_0001	-	-	Water	3		X								
EB_AV20080130_0001	01/30/08	930	Water	3		X								
AW0075UB_WG20080130_01	01/30/08	844	Water	12		X	X	X	X	X	X	X	X	
AW0076UB_WG20080130_01	01/30/08	1217	Water	12		X	X	X	X	X	X	X	X	
AW0077UB_WG20080130_01	01/30/08	1014	Water	12		X	X	X	X	X	X	X	X	

48HR HT for NO_3

Please forward VFA & qPCR analyses to identified laboratories ASAP.

Relinquished by		Company	Received by		Company
Printed Name: Darren Brandner	Date: 1/30/8	Avocet Environmental, Inc.	Printed Name: Hanatea El	Date: 1-30-08	5.5/4°C
Signature: [signature]	Time: 14:20		Signature: [signature]	Time: 1470	
Printed Name:	Date:		Printed Name:	Date:	
Signature:	Time:		Signature:	Time:	
Printed Name:	Date:		Printed Name:	Date:	
Signature:	Time:		Signature:	Time:	

Sample Receipt	Billing Information	Special Instructions
Total Containers		
Temperature °C °F	Bill To:	
COC Seal (Y/N/NA)		

S:\Projects\1155 Boeing Former C-6 Facility\Groundwater Monitoring\pre sampling info Jan 08 monitoring\COC_013008.xls

BOE-C6-0188172

AVOCET ENVIRONMENTAL, INC.
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Sheet 1 of 1

Boeing CoC No. AVO20080129A

CHAIN OF CUSTODY RECORD

Project Information:

Site Name	Boeing Former C-6 Facility - Building 1/36
Site Address	Los Angeles, CA
Project No.	1155.002
Project Manager	Michael Rendina
Sampled By	Brian Barsumian
Turn-Around-Time	Standart TAT, 48 hr holding time for NO_3

Analyses

Sample Identification	Sample Date	Sample Time	Matrix	No. of Cntnrs.	Lab I.D. Number	VOCs inc. fuel oxys (EPA 8260B)	TOC (EPA 9060)	VFA by IC Method 8M23G (Microseeps, Ing. Pittsburgh, PA)	Dissolved Gases (Ethane, Ethene, and Methane by RSK 175)	Dissolved Minerals (sulfate, Nitrate, nitrite, and chloride) by EPA Method 300	Total Alkalinity by EPA Method 310	Quantitative Polymerase Chain Reaction (qPCR) analysis for DHC 16S rRNA gene and functional genes tceA, bvcA, and vcrA (North Wind, Inc., Pocatello, ID)	Total Dissolved Solids (TDS) EPA160.1									48HR HT for NO_3 Please forward VFA & qPCR analyses to identified laboratories ASAP. Comments
TB_AV20080129_0001	-	-	Water	3		X																
EB_AV20080129_0001	01/29/08	1441	Water	3		X																
AW0074UB_WG20080129_01	01/29/08	1017	Water	12		X	X	X	X	X	X	X	X									
~~AW0075UB_WG20080129_01~~	~~01/29/08~~		~~Water~~	~~12~~		~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	BB								
~~AW0076UB_WG20080129_01~~	~~01/29/08~~		~~Water~~	~~12~~		~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	BB								
~~AW0077UB_WG20080129_01~~	~~01/29/08~~		~~Water~~	~~12~~		~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	BB								
WCC_06S_WG20080129_01	01/29/08	0851	Water	12		X	X	X	X	X	X	X	X									
EWB002_WG20080129_01	01/29/08	1307	Water	12		X	X	X	X	X	X	X	X									
EWB002_WG20080129_02	01/29/08	1307	Water	3		X																
AW0073C_WG20080129_01	01/29/08	1153	Water	12		X	X	X	X	X	X	X	X									

Relinquished by		Company	Received by		Company
Printed Name: Brian Barsumian	Date: 1/28/08	Avocet Environmental, Inc.	Printed Name: Darren Brandner	Date: 1/29/8	
Signature: Brian Barsumian	Time: 1457		Signature:	Time: 14:47	
Printed Name: Darren Brandner	Date: 1/29/8		Printed Name: Guillermo Rodriguez	Date: 1/29/08	
Signature:	Time: 1542		Signature:	Time: 1542	
Printed Name:	Date:		Printed Name:	Date:	
Signature:	Time:		Signature:	Time:	

Sample Receipt	Billing Information	Special Instructions
Total Containers		
Temperature °C ____ °F	Bill To:	
COC Seal (Y/N/NA)		

S:\Projects\1155 Boeing Former C-6 Facility\Groundwater Monitoring\pre sampling info Jan 08 monitoring\COC_012908.xls

BOE-C6-0188173

AVOCET ENVIRONMENTAL, INC.

INSTRUMENT CALIBRATION SHEET

Project Name: Boeing Former C-6 January 2008 WDR	Project #: 1155.003

Date	Time	Instrument Type	Instrument Serial No.	Calibration Method	Calibrated by	Remarks
1/29/08	7:00	SOLINST	SOLINST #1	STEEL TAPE	BB	25.0 = 25.01
1/29/08	7:00	QED MP20D	MP20D-1	FACTORY	FACTORY	N/A
1/30/08	6:30	SOLINST	SOLINST #1	STEEL TAPE	DAB	25.0 = 25.02
1/30/08	6:40	QED MP20D	MP20D-1	FACTORY	FACTORY	N/A
1/30/08	7:00	MiniRAE PID	PID #1	100 ppm Isobutylene	DAB	100 ppm

S:\Projects\1146 Boeing C-1\005_Ground Water Monitoring\Field Forms\[Instrument Calibration Sheet.xls]Sheet1

AVOCET ENVIRONMENTAL, INC.

QA/QC SAMPLE IDENTIFICATION FORM

Project Name: Boeing Former C-6 - January 2008 WDR

Project No.: 1155.003

Date	Time	QA/QC Sample Type (Duplicate, Field Blank, Equipment Blank, Split)	Sample ID	Sample Location	Primary Sample Reference	Analytical Methods	Organic-Free Water Source	Field Personnel	Comments
1/29/08	—	Trip Blank	TB_AV20080129_0001	C-6	N/A	8260	TestAmerica	BB	—
1/29/08	14:41	Equip. Blank	EB_AV20080129_0001	C-6	N/A	8260	TestAmerica	BB	Collected after EWB002 after decon.
1/29/08	13:07	Duplicate	EWB002_WG20080129_02	C-6	EWB002_WG20080129_01	8260	N/A	BB	—
1/30/08	—	Trip Blank	TB_AV20080130_0001	C-6	N/A	8260	TestAmerica	DAB	—
1/30/08	9:30	Equip. Blank	EB_AV20080130_0001	C-6	N/A	8260	TestAmerica	DAB	Collected after AW0075UB before AW0077UB

AVOCET ENVIRONMENTAL, INC.

GROUNDWATER SAMPLING DATA SHEET

Project Name:	Boeing C-6 Bldg. 1/36 WDR	**Date:** 02.26.08	
Project No.:	1155.003	**Prepared by:** DAB	
Well Identification:	AW0073C	**Weather:** Sunny	
Measurement Point Description:	TOC-N	**Pump Intake:** 106'	**Screen:** 96 - 116

A	B	C	D = C - B	E = B - A	G = D x F	H = 20 x F	I = -B x F	
Depth to LNAPL (ft-bmp)	**Depth to Static Water Level** (ft-bmp)	**Well Total Depth** (ft-bmp)	**Water Column Height** (ft)	**LNAPL Thickness** (ft)	**One Casing Volume** (gallons)	**Screen Volume** (gallons)	**Above Screen Volume** (gal.)	**Total Purge Volume** (gal.)
—	60.32	117.6'	57.3	—	N/A	N/A	N/A	N/A

	Gallons/Foot			
Well Diameter (inches) = 2	0.75	(2)	4	6
F - **Gallons per foot of casing**	0.02	0.16	0.65	1.47

Field Equipment: QED

Purge Method: Micropurge

Well Condition: Good - not bolted

Time	Flow Controller Settings	Volume Purged (Liters)	Flow Rate (mL/min)	Water Level (ft-bmp)	pH [+/- 0.1 pH]	Temperature (°C) [+/- 10%]	Turbidity (NTU) [+/- 10%]	Conductivity (mS/cm) [+/- 10%]	Dissolved Oxygen (mg/L) [+/- 10%]	ORP (mV) [+/- 10%]	Observations
8:08	10/5/135	0	100	60.32	6.37	18.21	—	0.823	7.25	-227	clear
8:13	9.5/5.5/150	0.500	180	<60.62	6.85	20.98	—	0.922	1.86	-265	cloudy
8:18	↓	1.400	↓	<60.62	7.05	21.23	771	0.936	0.51	-289	cloudy
8:23		2.300		<60.62	7.04	21.26	143	0.913	0.36	-287	cloudy
8:28		3.200		<60.62	7.04	21.43	105	0.900	0.31	-288	ptly clear
8:32		3.920		<60.62	7.05	21.48	87.1	0.896	0.26	-285	ptly clear
8:35	↓	4.460	↓	<60.62	7.06	21.52	85.7	0.886	0.23	-285	ptly clear

Purge Start Time	Purge End Time	Average Flow (mL/min)	Total Volume Purged (Liters)	Total Casing Volumes Purged	80% Recovery Water Level Depth (Dx0.20) + B	Water Level at Sampling Time (ft bmp)	Sample Collection Time	Sample Identification
8:08	8:35	180	4.46	N/A	—	60.4	8:38	AW0073C_WG200802 26 _01

Notes: (units) [stabilization criteria]

Field Parameters		
Ferrous Iron (mg/L)	PID (ppm):	Chemetrics D.O.(mg/L)
~~0.80~~ 0.96	2.8	0.6

DUP: No

DRUM NO: —

BOE-C6-0188176

AVOCET ENVIRONMENTAL, INC.

GROUNDWATER SAMPLING DATA SHEET

Project Name:	Boeing C-6 Bldg. 1/36 WDR	**Date:** 02.26.08	
Project No.:	1155.003	**Prepared by:** DAB	
Well Identification:	AW0075UB	**Weather:** Sunny	
Measurement Point Description:	TOC-N	**Pump Intake:** 79'	**Screen:** 69 - 89

A	B	C	D = C - B	E = B - A	G = D x F	H = 20 x F	I = - B x F	
Depth to LNAPL (ft-bmp)	**Depth to Static Water Level** (ft-bmp)	**Well Total Depth** (ft-bmp)	**Water Column Height** (ft)	**LNAPL Thickness** (ft)	**One Casing Volume** (gallons)	**Screen Volume** (gallons)	**Above Screen Volume** (gal.)	**Total Purge Volume** (gal.)
--	60.16	85.70		--	N/A	N/A	N/A	N/A

	Gallons/Foot			
Well Diameter (inches) = 2	0.75	2	4	6
F - **Gallons per foot of casing**	0.02	0.16	0.65	1.47

Field Equipment: QED
Purge Method: Micropurge
Well Condition: Good - not bolted

Time	Flow Controller Settings	Volume Purged (Liters)	Flow Rate (mL/min)	Water Level (ft-bmp)	pH [+/- 0.1 pH]	Temperature (°C) [+/- 10%]	Turbidity (NTU) [+/- 10%]	Conductivity (mS/cm) [+/- 10%]	Dissolved Oxygen (mg/L) [+/- 10%]	ORP (mV) [+/- 10%]	Observations
9:35	10/5/150'	0	300	60.16	6.91	22.32	135	1.65	9.78	-226	cloudy
9:40	↓	1.5	↓	<60.46	6.83	22.26	102	1.89	1.25	-258	cloudy
9:45	↓	3.0	↓	↓	6.81	22.26	67.3	1.99	0.51	-271	clearer
9:50	↓	4.5	↓	↓	6.76	22.26	56.9	2.07	0.19	-275	clear
9:55	↓	6.0	↓	↓	6.72	22.28	40.2	2.18	0.12	-274	clear
10:00	↓	7.5	↓	↓	6.67	22.28	30.9	2.29	0.11	-271	clear
10:05	↓	9.0	↓	↓	6.65	22.30	24.8	2.34	0.11	-268	clear
10:08	↓	9.9	↓	↓	6.65	22.30	26.7	2.42	0.09	-267	clear
10:11	↓	10.8	↓	↓	6.65	22.31	23.9	2.44	0.12	-267	clear
10:14	↓	11.7	↓	↓	6.64	22.32	21.9	2.47	0.10	-265	clear

Purge Start Time	Purge End Time	Average Flow (mL/min)	Total Volume Purged (Liters)	Total Casing Volumes Purged	80% Recovery Water Level Depth (Dx0.20) + B	Water Level at Sampling Time (ft bmp)	Sample Collection Time	Sample Identification
9:35	10:14	300	11.7	N/A	--	60.3	10:20	AW0075UB_WG200802 26 _01

Notes: (units) [stabilization criteria]

Field Parameters		
Ferrous Iron (mg/L)	PID (ppm):	Chemetrics D.O.(mg/L)
1.65	8.9	NA

DUP: --
DRUM NO: --

BOE-C6-0188177

AVOCET ENVIRONMENTAL, INC.

GROUNDWATER SAMPLING DATA SHEET

Project Name:	Boeing C-6 Bldg. 1/36 WDR	**Date:** 02.26.08	
Project No.:	1155.003	**Prepared by:** DAB	
Well Identification:	AW0076UB	**Weather:** Sunny, warm	
Measurement Point Description:	TOC-N	**Pump Intake:** 79'	**Screen:** 69 - 89

A	B	C	D = C - B	E = B - A	G = D x F	H = 20 x F	I = -B x F	
Depth to LNAPL (ft-bmp)	**Depth to Static Water Level** (ft-bmp)	**Well Total Depth** (ft-bmp)	**Water Column Height** (ft)	**LNAPL Thickness** (ft)	**One Casing Volume** (gallons)	**Screen Volume** (gallons)	**Above Screen Volume** (gal.)	**Total Purge Volume** (gal.)
—	60.60	88.55	27.95	—	N/A	N/A	N/A	N/A

	Gallons/Foot			
Well Diameter (inches) = 2	0.75	2	4	6
F - **Gallons per foot of casing**	0.02	0.16	0.65	1.47

Field Equipment: QED
Purge Method: Micropurge
Well Condition: Good, not bolted

Time	Flow Controller Settings	Volume Purged (Liters)	Flow Rate (mL/min)	Water Level (ft-bmp)	pH [+/- 0.1 pH]	Temperature (°C) [+/- 10%]	Turbidity (NTU) [+/- 10%]	Conductivity (mS/cm) [+/- 10%]	Dissolved Oxygen (mg/L) [+/- 10%]	ORP (mV) [+/- 10%]	Observations
14:13	10/5/120'	0	175	60.60	6.83	24.61	151	2.97	6.33	-132	
14:18	↓	0.875	↓	<60.90	6.69	22.52	258	3.05	0.45	-185	
14:23		1.75		<60.90	6.64	22.41	257	3.05	0.21	-194	
14:26		2.275		<60.90	6.63	22.40	227	3.05	0.19	-195	
14:29		2.80		<60.90	6.62	22.38	199	3.07	0.18	-196	mostly clear
14:32		3.325		<60.90	6.62	22.33	179	3.09	0.16	-195	mostly clear
14:35	↓	3.85	↓	<60.90	6.61	22.33	169	3.13	0.16	-194	mostly clear

Purge Start Time	Purge End Time	Average Flow (mL/min)	Total Volume Purged (Liters)	Total Casing Volumes Purged	80% Recovery Water Level Depth (Dx0.20) + B	Water Level at Sampling Time (ft bmp)	Sample Collection Time	Sample Identification
14:13	14:35	175	3.85	N/A	—	60.7	14:38	AW0076UB_WG200802 26 _01

Notes: (units) [stabilization criteria]

Field Parameters		
Ferrous Iron (mg/L)	PID (ppm):	Chemetrics D.O.(mg/L)
1.36	8.7	—

DUP: —
DRUM NO: —

AVOCET ENVIRONMENTAL, INC.

GROUNDWATER SAMPLING DATA SHEET

Project Name:	Boeing C-6 Bldg. 1/36 WDR	**Date:** 2-26-08	
Project No.:	1155.003	**Prepared by:** DAB	
Well Identification:	AW0077UB	**Weather:** Warm, Sunny	
Measurement Point Description:	TOC-N	**Pump Intake:** 78'	**Screen:** 70.5 - 85.5

A	B	C	D = C - B	E = B - A	G = D x F	H = 15 x F	I = -B x F	
Depth to LNAPL (ft-bmp)	**Depth to Static Water Level** (ft-bmp)	**Well Total Depth** (ft-bmp)	**Water Column Height** (ft)	**LNAPL Thickness** (ft)	**One Casing Volume** (gallons)	**Screen Volume** (gallons)	**Above Screen Volume** (gal.)	**Total Purge Volume** (gal.)
—	60.75	88.15	27.40	—	N/A	N/A	N/A	N/A

	Gallons/Foot			
Well Diameter (inches) = 2	0.75	2	4	6
F - **Gallons per foot of casing**	0.02	0.16	0.65	1.47

Field Equipment: QED
Purge Method: Micropurge
Well Condition: Good, not bolted

Time	Flow Controller Settings	Volume Purged (Liters)	Flow Rate (mL/min)	Water Level (ft-bmp)	pH [+/- 0.1 pH]	Temperature (°C) [+/- 10%]	Turbidity (NTU) [+/- 10%]	Conductivity (mS/cm) [+/- 10%]	Dissolved Oxygen (mg/L) [+/- 10%]	ORP (mV) [+/- 10%]	Observations
~~10~~ 12:41	10/5/150	0	300	60.75	6.6	23.81	34.6	1.93	5.75	-204	
12:48	11/4/130	0.75	150	<61.05	6.49	22.38	41.6	2.62	0.49	-228	
12:50	↓	1.35	150	<61.05	6.49	22.28	54.6	2.60	0.32	-229	
12:53	↓	1.80	150	<61.05	6.52	22.29	56.4	2.58	0.25	-229	

Purge Start Time	Purge End Time	Average Flow (mL/min)	Total Volume Purged (Liters)	Total Casing Volumes Purged	80% Recovery Water Level Depth (Dx0.20) + B	Water Level at Sampling Time (ft bmp)	Sample Collection Time	Sample Identification
12:41	12:53	150	1.8	N/A	NA	<61.05	13:00	AW0077UB_WG200802 26 _01

Notes: (units) [stabilization criteria]

Field Parameters		
Ferrous Iron (mg/L)	PID (ppm):	Chemetrics D.O.(mg/L)
0.95	19.8	—

DUP: AW0077UB_WG20080226-02
DRUM NO: —

BOE-C6-0188179

AVOCET ENVIRONMENTAL, INC.

GROUNDWATER SAMPLING DATA SHEET

Project Name:	Boeing C-6 Bldg. 1/36 WDR	**Date:** 02.26.08	
Project No.:	1155.003	**Prepared by:** DAB	
Well Identification:	EWB002	**Weather:** Sunny	
Measurement Point Description:	TOC-N	**Pump Intake:** 75'	**Screen:** 60 - 90

A	B	C	D = C - B	E = B - A	G = D x F	H = 30 x F	I = -B x F	
Depth to LNAPL (ft-bmp)	**Depth to Static Water Level** (ft-bmp)	**Well Total Depth** (ft-bmp)	**Water Column Height** (ft)	**LNAPL Thickness** (ft)	**One Casing Volume** (gallons)	**Screen Volume** (gallons)	**Above Screen Volume** (gal.)	**Total Purge Volume** (gal.)
–	60.53	89.56	29.03	–	N/A	N/A	N/A	N/A

	Gallons/Foot			
Well Diameter (inches) = 6	0.75	2	4	(6)
F - **Gallons per foot of casing**	0.02	0.16	0.65	1.47

Field Equipment: QED

Purge Method: Micropurge

Well Condition: Good - no bolts

Time	Flow Controller Settings	Volume Purged (Liters)	Flow Rate (mL/min)	Water Level (ft-bmp)	pH [+/- 0.1 pH]	Temperature (°C) [+/- 10%]	Turbidity (NTU) [+/- 10%]	Conductivity (mS/cm) [+/- 10%]	Dissolved Oxygen (mg/L) [+/- 10%]	ORP (mV) [+/- 10%]	Observations
11:12	10/5/150	0.00	300	60.53	6.99	24.82	8.93	2.34	8.72	-165	clear
11:17	↓	1.5	↓	<60.83	6.68	22.15	2.21	2.56	2.97	-188	clear
11:22		3.0			6.67	22.09	1.37	2.54	2.66	-181	clear
11:27		4.5			6.64	22.26	1.24	2.54	2.73	-187	clear
11:32		6.0			6.61	22.12	1.46	2.55	2.09	-183	clear
11:37		7.5			6.62	22.09	10.48?	2.49	2.25	-191	clear
11:42		9.0			6.62	22.09	10.13?	2.47	2.52	-189	clear
11:47		10.5			6.59	22.14	1.13	2.45	2.34	-189	clear
11:50	↓	11.4	↓		6.59	22.13	1.07	2.44	2.37	-190	clear

Purge Start Time	Purge End Time	Average Flow (mL/min)	Total Volume Purged (Liters)	Total Casing Volumes Purged	80% Recovery Water Level Depth (Dx0.20) + B	Water Level at Sampling Time (ft bmp)	Sample Collection Time	Sample Identification
11:12	11:50	300	12.0	N/A	–	60.6	11:52	EWB002_WG200802 26 _01

Notes: (units) [stabilization criteria]

Field Parameters		
Ferrous Iron (mg/L)	PID (ppm):	Chemetrics D.O.(mg/L)
1.48	6.2	–

DUP: –

DRUM NO: –

BOE-C6-0188180

CHAIN OF CUSTODY RECORD

COC #: AV20080226A

Page: 1 of 1

Customer Information		Project Information		Project Information			
Site:	C6	Client Name:	Avocet Environmental, Inc.	Collector:	DAB	Boeing PM:	
Company:	Avocet Environmental, Inc.	Sampling Event:	Feb-2008 B1/36 WDR	Contact #:			
Report to:	Michael A. Rendina, P.G.	Project Number:	1155.003				
Address:	16 Technology Dr. Suite 154	Project Manager:	Michael Rendina				
		PM Phone #:	(949) 296-0977				
	Irvine	Field Contact:	Darren Brandner				
	CA	Field Contact #:	(949) 870-2655				
	92618	Lab Name:	Test America				
Email:	mrendina@avocetenv.com	Lab Contact:	Trupti Mistry				
		Lab Address:	17461 Derian Ave. #100				
			Irvine, CA 92614				
		Lab Phone:	(949) 261-1022				

Requested Analyses

Sample Name	Matrix	Date	Time	No. of Containers	Anions 300.0 NO2/NO3/Cl/SO4 Water	DHGs RSK175 Ethene/Ethane/Methane Water	TOC 9060 Water	Total Alkalinity 310.1 Water	VFA 8M23G Water	VOCs 8260B C1 Water	Comments
AW0073C_WG20080226_01	Water	2/26/2008	8:38	13	10	10	10	10	10	10	
AW0075UB_WG20080226_01	Water	2/26/2008	10:20	13	10	10	10	10	10	10	
AW0076UB_WG20080226_01	Water	2/26/2008	14:38	13	10	10	10	10	10	10	
AW0077UB_WG20080226_01	Water	2/26/2008	13:00	13	10	10	10	10	10	10	
AW0077UB_WG20080226_02	Water	2/26/2008	13:00	6						10	
EB_~~WG~~AV20080226_01	Water	2/26/2008	10:55	6						10	
EWB002_WG20080226_01	Water	2/26/2008	11:52	13	10	10	10	10	10	10	
TB_~~WG~~AV20080226_01	Water	2/26/2008	—	6						10	

Instructions/TAT

Legend:
Numerical values for analyses equate to turn around time in days

H - Hold
EH - Extract/Extrude & Hold

Note: Values in the cells bellow are Turn Around Times.

1. Relinquished by:	Date:	2. Received by:	Date:	3. Relinquished by:	Date:	4. Received by:	Date:
David Lieberman	2/26/2008						2/26/08
Company: Avocet Environmental, Inc.	Time: 17:26	Company: —	Time:	Company:	Time:	Company: TAI	Time: 17:26

Comments: Note:1) VFA sample to be delivered to Microseeps Inc., Pittsburgh, PA for analysis by IC Method 8M23G, 2) Include A+A+2CVE for 8260B

Geotracker EDF ☐

Data Validation Package ☐

4.2/2.8

BOE-C6-0188181

Certificate of Calibration

Equipment/Model	Serial Number Probe	Serial Number Readout	FlowCell
MiroPurge/MP20	QT03391	QD03342	

This instrument has been calibrated using calibration SOLUTIONS and PROCEDURES which are traceable to N.I.S.T.
Test and calibration data is on file with the EnviroSupply & Services

Calibration Date	Calibration Procedure	Repair & Service DEPT
02/25/2008	Ph 7, 4 @10	ABDULR ITANI
15:10 PM	DO 8.56 mg/l	
	SPCon 0.45mS/cm	
	ORP 289 mV	

Enviro Supply & Service, Inc.
(800) 201-8150
Ext 109

AVOCET ENVIRONMENTAL, INC.

GROUNDWATER SAMPLING DATA SHEET

Project Name:	Boeing C-6 GWM - B1/36 WDR	**Date:**	3/25/08
Project No.:	1155.003	**Prepared by:**	BCB
Well Identification:	AW0055UB	**Weather:**	Clear / Warm
Measurement Point Description:	TOC - N	**Pump Intake:**	COS
		Screen:	69 - 89

A	B	C	D = C - B	E = B - A	G = D x F	H = 20 x F	I = - B x F	
Depth to LNAPL (ft-bmp)	**Depth to Static Water Level** (ft-bmp)	**Well Total Depth** (ft-bmp)	**Water Column Height** (ft)	**LNAPL Thickness** (ft)	**One Casing Volume** (gallons)	**Screen Volume** (gallons)	**Above Screen Volume** (gal.)	**Total Purge Volume** (gal.)
—	60.33	89.30	28.97	—	N/A	N/A	N/A	N/A

	Gallons/Foot			
Well Diameter (inches) = 2	0.75	2	4	6
F - **Gallons per foot of casing**	0.02	0.16	0.65	1.47

Field Equipment: QED
Purge Method: Micropurge
Well Condition: good

Time	Flow Controller Settings	Volume Purged (Liters)	Flow Rate (mL/min)	Water Level (ft-bmp)	Temperature (°C) [+/- 10%]	Conductivity (mS/cm) [+/- 10%]	Dissolved Oxygen (mg/L) [+/- 10%]	pH [+/- 0.1 pH]	ORP (mV) [+/- 10%]	Turbidity (NTU) [+/- 10%]	Observations
1055	10/5 @ 50psi		250	60.33	21.56	0.795	4.27	7.34	68	45	compressor off
1058	↓		↓	—	23.74	2.91	3.15	6.77	-55	10.9	colorless
1101				—	22.36	2.85	2.60	6.69	-107	5.21	"
1103				—	22.27	2.89	1.11	6.70	-124	3.09	"
1106				—	22.26	2.91	0.45	6.72	-131	3.03	"
1109				—	22.25	2.92	0.36	6.73	-135	2.32	"
1112				—	22.25	2.92	0.26	6.73	-140	1.49	"
1115				—	22.27	2.92	0.25	6.72	-141	1.21	"
1118				—	22.26	2.92	0.23	6.73	-142	1.17	"
1121	↓		↓	60.37	22.25	2.92	0.22	6.73	-143	1.11	"

Purge Start Time	Purge End Time	Average Flow (mL/min)	Total Volume Purged (Liters)	Total Casing Volumes Purged	80% Recovery Water Level Depth (Dx0.20) + B	Water Level at Sampling Time (ft bmp)	Sample Collection Time	Sample Identification
1055	1121	250	6.75	N/A	NA	60.37	1121	AW0055UB_WG20080325_01

Notes: (units) [stabilization criteria]

Field Parameters		
Ferrous Iron (mg/L)	PID (ppm):	Chemetrics D.O.(mg/L)
0.91		

DUP:
DRUM NO:

BOE-C6-0188183

AVOCET ENVIRONMENTAL, INC.

Page _____ of _____

GROUNDWATER SAMPLING DATA SHEET

Project Name:	Boeing C-6 GWM - B1/36 WDR	**Date:**	3/25/08
Project No.:	1155.003	**Prepared by:**	JMC
Well Identification:	AW0066UB	**Weather:**	Sunny 70's
Measurement Point Description:	TOC	**Pump Intake:** 79.5	**Screen:** 69.5 - 89.5

A	B	C	D = C - B	E = B - A	G = D x F	H = 20 x F	I = – B x F	
Depth to LNAPL (ft-bmp)	**Depth to Static Water Level** (ft-bmp)	**Well Total Depth** (ft-bmp)	**Water Column Height** (ft)	**LNAPL Thickness** (ft)	**One Casing Volume** (gallons)	**Screen Volume** (gallons)	**Above Screen Volume** (gal.)	**Total Purge Volume** (gal.)
NA	59.70	90	30.30	NA	N/A	N/A	N/A	N/A

	Gallons/Foot			
Well Diameter (inches) = 2	0.75	2	4	6
F - **Gallons per foot of casing**	0.02	0.16	0.65	1.47

Field Equipment: QED
Purge Method: Micropurge
Well Condition: OK

Time	Flow Controller Settings	Volume Purged (Liters)	Flow Rate (mL/min)	Water Level (ft-bmp)	Temperature (°C) [+/- 10%]	Conductivity (mS/cm) [+/- 10%]	Dissolved Oxygen (mg/L) [+/- 10%]	pH [+/- 0.1 pH]	ORP (mV) [+/- 10%]	Turbidity (NTU) [+/- 10%]	Observations
1055	CPM-4	0	200mL	60.14	23.66	6.16	4.60	6.41	49	882	Cloudy
1058		600		60.02	22.04	6.31	1.26	6.42	43	889	Cloudy
1101		1200		60.05	21.78	6.28	0.96	6.40	39	1470	Cloudy
1104		1800		60.04	21.55	6.28	0.63	6.33	34	869	Cloudy
1107		2400		60.05	21.62	6.25	0.90	6.24	32	670	Cloudy
1110		3000		60.04	21.60	6.25	0.89	6.23	30	695	cloudy
1113		3600		60.05	21.61	6.24	0.88	6.24	29	692	Cloudy

Purge Start Time	Purge End Time	Average Flow (mL/min)	Total Volume Purged (Liters)	Total Casing Volumes Purged	80% Recovery Water Level Depth (Dx0.20) + B	Water Level at Sampling Time (ft bmp)	Sample Collection Time	Sample Identification
1055	1113	200	3600	N/A	NA	60.05	1120	AW0066UB_WG2008 0325_01

Notes: (units) [stabilization criteria]

Field Parameters		
Ferrous Iron (mg/L)	PID (ppm):	Chemetrics D.O.(mg/L)
0.97	8.0 ppm	

DUP:
DRUM NO: Bio slime in well cant get turb down

BOE-C6-0188184

AVOCET ENVIRONMENTAL, INC.

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GROUNDWATER SAMPLING DATA SHEET

Project Name:	Boeing C-6 GWM - B1/36 WDR	**Date:**	3/25/08
Project No.:	1155.003	**Prepared by:**	Gmc
Well Identification:	AW0067UB	**Weather:**	Sunny 70's
Measurement Point Description:	TOC	**Pump Intake:**	80
		Screen:	70 - 90

A	B	C	D = C - B	E = B - A	G = D x F	H = 20 x F	I = -B x F	
Depth to LNAPL (ft-bmp)	**Depth to Static Water Level** (ft-bmp)	**Well Total Depth** (ft-bmp)	**Water Column Height** (ft)	**LNAPL Thickness** (ft)	**One Casing Volume** (gallons)	**Screen Volume** (gallons)	**Above Screen Volume** (gal.)	**Total Purge Volume** (gal.)
NA	59.87	90	30.13	NA	N/A	N/A	N/A	N/A

	Gallons/Foot			
Well Diameter (inches) = 2	0.75	2	4	6
F - **Gallons per foot of casing**	0.02	0.16	0.65	1.47

Field Equipment: QED

Purge Method: Micropurge

Well Condition: OK

Time	Flow Controller Settings	Volume Purged (Liters)	Flow Rate (mL/min)	Water Level (ft-bmp)	Temperature (°C) [+/- 10%]	Conductivity (mS/cm) [+/- 10%]	Dissolved Oxygen (mg/L) [+/- 10%]	pH [+/- 0.1 pH]	ORP (mV) [+/- 10%]	Turbidity (NTU) [+/- 10%]	Observations
1000	CPM-4	200	200mL/m	59.92	23.42	4.78	6.54	6.22	52	1359	Cloudy
1003		800		59.99	21.62	5.14	0.43	6.09	35	2000	Cloudy
1006		1400		60.01	21.44	5.14	0.46	6.07	25	2000	Cloudy
1009		2000		60.01	21.34	5.14	0.38	6.07	26	2000	Cloudy
1012		2600		60.01	21.32	5.15	0.30	6.10	9	2000	Cloudy
1015		3200		60.02	21.33	5.15	0.30	6.10	8	2000	Cloudy
1018		3800		60.01	21.32	5.16	0.29	6.09	9	2000	Cloudy

Purge Start Time	Purge End Time	Average Flow (mL/min)	Total Volume Purged (Liters)	Total Casing Volumes Purged	80% Recovery Water Level Depth (Dx0.20) + B	Water Level at Sampling Time (ft bmp)	Sample Collection Time	Sample Identification
1000	1018	200mL	3800	N/A	NA	60.01	1024	AW0067UB_WG20080325_01

Notes: (units) [stabilization criteria]

Field Parameters		
Ferrous Iron (mg/L)	PID (ppm):	Chemetrics D.O.(mg/L)
1.49	3.9	

DUP:

DRUM NO: MP30-1

TURBIDITY wouldn't come down. Bio slime in well.

BOE-C6-0188185

AVOCET ENVIRONMENTAL, INC.

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GROUNDWATER SAMPLING DATA SHEET

Project Name:	Boeing C-6 GWM - B1/36 WDR	**Date:**	3/25/08
Project No.:	1155.003	**Prepared by:**	SMC
Well Identification:	AW0073C	**Weather:**	Sunny 70's
Measurement Point Description:	TOC	**Pump Intake:**	106
		Screen:	96 - 116

A	B	C	D = C - B	E = B - A	G = D x F	H = 20 x F	I = – B x F	
Depth to LNAPL (ft-bmp)	**Depth to Static Water Level** (ft-bmp)	**Well Total Depth** (ft-bmp)	**Water Column Height** (ft)	**LNAPL Thickness** (ft)	**One Casing Volume** (gallons)	**Screen Volume** (gallons)	**Above Screen Volume** (gal.)	**Total Purge Volume** (gal.)
NA	60.02	117	56.98	NA	N/A	N/A	N/A	N/A

	Gallons/Foot			
Well Diameter (inches) = 2	0.75	2	4	6
F - **Gallons per foot of casing**	0.02	0.16	0.65	1.47

Field Equipment: QED

Purge Method: Micropurge

Well Condition: OK

Time	Flow Controller Settings	Volume Purged (Liters)	Flow Rate (mL/min)	Water Level (ft-bmp)	Temperature (°C) [+/- 10%]	Conductivity (mS/cm) [+/- 10%]	Dissolved Oxygen (mg/L) [+/- 10%]	pH [+/- 0.1 pH]	ORP (mV) [+/- 10%]	Turbidity (NTU) [+/- 10%]	Observations
1205	CPM-4	0	200mL/m	60.02	24.61	1.128	1.52	6.29	27	125	cloudy
1208		600		60.62	23.77	1.035	1.16	7.02	29	228	cloudy
1211		1200		60.64	23.08	1.064	0.72	7.07	37	370	cloudy
1214		1800		60.62	22.95	0.906	0.54	7.12	34	337	cloudy
1217		2400		60.63	22.92	0.904	0.54	7.12	34	330	cloudy
1220		3000		60.62	22.90	0.899	0.50	7.14	32	329	cloudy
1223		3600		60.63	22.91	0.898	0.52	7.14	30	328	cloudy

Purge Start Time	Purge End Time	Average Flow (mL/min)	Total Volume Purged (Liters)	Total Casing Volumes Purged	80% Recovery Water Level Depth (Dx0.20) + B	Water Level at Sampling Time (ft bmp)	Sample Collection Time	Sample Identification
1205	1223	200mL	3600	N/A	NA	60.63	1230	AW0073C_WG20080325_01

Notes: (units) [stabilization criteria]

turb won't come down due to injections

Field Parameters		
Ferrous Iron (mg/L)	PID (ppm):	Chemetrics D.O.(mg/L)
1.03	1.7	

DUP:

DRUM NO:

BOE-C6-0188186

AVOCET ENVIRONMENTAL, INC.

GROUNDWATER SAMPLING DATA SHEET

Project Name:	Boeing C-6 GWM - B1/36 WDR	**Date:**	3/25/08
Project No.:	1155.003	**Prepared by:**	ZMC
Well Identification:	AW0075UB	**Weather:**	Cloudy 60s
Measurement Point Description:		**Pump Intake:**	79
		Screen:	69 - 89

A	B	C	D = C - B	E = B - A	G = D x F	H = 20 x F	I = - B x F	
Depth to LNAPL (ft-bmp)	**Depth to Static Water Level** (ft-bmp)	**Well Total Depth** (ft-bmp)	**Water Column Height** (ft)	**LNAPL Thickness** (ft)	**One Casing Volume** (gallons)	**Screen Volume** (gallons)	**Above Screen Volume** (gal.)	**Total Purge Volume** (gal.)
NA	60.02	93.00	32.98	NA	N/A	N/A	N/A	N/A

	Gallons/Foot			
Well Diameter (inches) = 2	0.75	2	4	6
F - **Gallons per foot of casing**	0.02	0.16	0.65	1.47

Field Equipment: QED
Purge Method: Micropurge
Well Condition: OK

Time	Flow Controller Settings	Volume Purged (Liters)	Flow Rate (mL/min)	Water Level (ft-bmp)	Temperature (°C) [+/- 10%]	Conductivity (mS/cm) [+/- 10%]	Dissolved Oxygen (mg/L) [+/- 10%]	pH [+/- 0.1 pH]	ORP (mV) [+/- 10%]	Turbidity (NTU) [+/- 10%]	Observations
0856	CPM-4	000	200/min	60.02	19.94	2.32	2.67	6.73	27	40.9	Cloudy
0859		600		60.02	21.37	2.77	1.27	6.46	31	3.2	clear
0902		1200		60.02	21.53	2.79	0.83	6.46	25	2.9	clear
0905		1800		60.02	22.01	2.62	0.79	6.46	19	1.6	clear
0908		2400		60.02	22.02	2.61	0.69	6.45	14	1.4	clear
0911		3000		60.02	22.01	2.60	0.68	6.46	13	1.5	clear
0914		3600		60.01	22.01	2.61	0.69	6.45	15	1.9	clear
	ZMC										

Purge Start Time	Purge End Time	Average Flow (mL/min)	Total Volume Purged (Liters)	Total Casing Volumes Purged	80% Recovery Water Level Depth (Dx0.20) + B	Water Level at Sampling Time (ft bmp)	Sample Collection Time	Sample Identification
0856	0914	200ml/m	3600	N/A	NA	60.02	0923	AW0075UB_WG2008 0325 _01

Notes: (units) [stabilization criteria]

Field Parameters		
Ferrous Iron (mg/L)	PID (ppm):	Chemetrics D.O.(mg/L)
1.44	3.2	—

DUP:
DRUM NO:

BOE-C6-0188187

AVOCET ENVIRONMENTAL, INC.

GROUNDWATER SAMPLING DATA SHEET

Project Name:	Boeing C-6 GWM - B1/36 WDR	Date:	3/25/08
Project No.:	1155.003	Prepared by:	Smc
Well Identification:	AW0076UB	Weather:	Cloudy 60's
Measurement Point Description:	TOC	Pump Intake:	60s
		Screen:	69 - 89

A	B	C	D = C - B	E = B - A	G = D x F	H = 20 x F	I = – B x F	
Depth to LNAPL (ft-bmp)	Depth to Static Water Level (ft-bmp)	Well Total Depth (ft-bmp)	Water Column Height (ft)	LNAPL Thickness (ft)	One Casing Volume (gallons)	Screen Volume (gallons)	Above Screen Volume (gal.)	Total Purge Volume (gal.)
NA	60.43	92 –	31.57	NA	N/A	N/A	N/A	N/A

	Gallons/Foot			
Well Diameter (inches) = 2	0.75	2	4	6
F - Gallons per foot of casing	0.02	0.16	0.65	1.47

Field Equipment: QED
Purge Method: Micropurge
Well Condition: OK

Time	Flow Controller Settings	Volume Purged (Liters)	Flow Rate (mL/min)	Water Level (ft-bmp)	Temperature (°C) [+/- 10%]	Conductivity (mS/cm) [+/- 10%]	Dissolved Oxygen (mg/L) [+/- 10%]	pH [+/- 0.1 pH]	ORP (mV) [+/- 10%]	Turbidity (NTU) [+/- 10%]	Observations
0716	250mL/min	200mL/min	200mL/min	60.43	19.52	3.05	3.26	6.44	128	73.2	cloudy
0713	↓	↓	↓	60.43	20.59	3.29	1.33	6.37	107	80.2	cloudy
0716				60.43	20.92	3.27	1.19	6.39	91	84.2	cloudy
0719				60.43	21.10	3.27	1.21	6.41	74	84.7	cloudy
0722				60.43	21.16	3.33	0.79	6.41	60	64.4	cloudy
0725				60.43	21.18	3.37	0.70	6.41	53	57.1	cloudy
0728				60.43	21.20	3.39	0.67	6.41	45	46	cloudy
0731				60.43	21.18	3.39	0.63	6.42	41	46	cloudy
0734				60.43	21.17	3.43	0.59	6.42	32	40.4	cloudy
0737				60.43	21.19	3.42	0.53	6.42	29	18.2	cloudy

Purge Start Time	Purge End Time	Average Flow (mL/min)	Total Volume Purged (Liters)	Total Casing Volumes Purged	80% Recovery Water Level Depth (Dx0.20) + B	Water Level at Sampling Time (ft bmp)	Sample Collection Time	Sample Identification (cont.)
0710	0746	250mL	2400	N/A	NA	60.43	0750	AW0076UB_WG20080325_01

Notes: (units) [stabilization criteria]

Field Parameters		
Ferrous Iron (mg/L)	PID (ppm):	Chemetrics D.O.(mg/L)
1.42	7.2	

DUP:
DRUM NO:

BOE-C6-0188188

AW0076UB (cont.)

0740	60.43	20.19	3.41	0.52	6.42	30	9.6
0743	60.43	20.20	3.42	0.53	6.42	29	9.5
0746	60.43	20.21	3.42	0.52	6.41	28	9.4

Done

BOE-C6-0188189

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GROUNDWATER SAMPLING DATA SHEET

Project Name:	Boeing C-6 GWM - B1/36 WDR	Date:	3/25/08
Project No.:	1155.003	Prepared by:	GMC
Well Identification:	AW0077UB	Weather:	Sunny 70s
Measurement Point Description:	TOC	Pump Intake:	77.5
		Screen:	70.5 - 85.5

A	B	C	D = C - B	E = B - A	G = D x F	H = 15 x F	I = – B x F	
Depth to LNAPL (ft-bmp)	Depth to Static Water Level (ft-bmp)	Well Total Depth (ft-bmp)	Water Column Height (ft)	LNAPL Thickness (ft)	One Casing Volume (gallons)	Screen Volume (gallons)	Above Screen Volume (gal.)	Total Purge Volume (gal.)
NL	60.64	86.00	25.36	NA	N/A	N/A	N/A	N/A

	Gallons/Foot			
Well Diameter (inches) = 2	0.75	2	4	6
F - Gallons per foot of casing	0.02	0.16	0.65	1.47

Field Equipment: QED

Purge Method: Micropurge

Well Condition: OK

Time	Flow Controller Settings	Volume Purged (Liters)	Flow Rate (mL/min)	Water Level (ft-bmp)	Temperature (°C) [+/- 10%]	Conductivity (mS/cm) [+/- 10%]	Dissolved Oxygen (mg/L) [+/- 10%]	pH [+/- 0.1 pH]	ORP (mV) [+/- 10%]	Turbidity (NTU) [+/- 10%]	Observations
1130	CPM-4	0	200mL/m	60.64	22.82	2.68	3.45	6.79	70	351	Cloudy
1133		600		61.09	22.90	3.02	0.92	6.79	66	128.1	Cloudy
1136		1200		61.12	22.95	2.91	0.53	6.81	61	81.2	Cloudy
1139		1800		61.13	22.35	2.84	0.43	6.82	57	89.7	Cloudy
1142		2400		61.14	22.26	2.82	0.38	6.83	56	85.3	Cloudy
1145		3000		61.13	22.27	2.81	0.37	6.83	55	84.9	Cloudy
1148		3600		61.12	22.29	2.82	0.38	6.82	56	85.0	Cloudy
	GMC										

Purge Start Time	Purge End Time	Average Flow (mL/min)	Total Volume Purged (Liters)	Total Casing Volumes Purged	80% Recovery Water Level Depth (Dx0.20) + B	Water Level at Sampling Time (ft bmp)	Sample Collection Time	Sample Identification
1130	1148	200mL	3600	N/A	NA	61.12	1156	AW0077UB_WG2008 0325_01

(units) [stabilization criteria]

Field Parameters		
Ferrous Iron (mg/L)	PID (ppm):	Chemetrics D.O.(mg/L)
0.86	21.4	

DUP:

DRUM NO: well wont clean up turb high due to injections

Make 1 Rubber Septa VOA (only 2 now)

BOE-C6-0188190

AVOCET ENVIRONMENTAL, INC.

GROUNDWATER SAMPLING DATA SHEET

Project Name:	Boeing C-6 GWM - B1/36 WDR	**Date:**	3/25/08
Project No.:	1155.003	**Prepared by:**	YMC
Well Identification:	EWB002	**Weather:**	Cloudy 60's
Measurement Point Description:	TOC	**Pump Intake:**	80
		Screen:	60 - 90

A	B	C	D = C - B	E = B - A	G = D x F	H = 30 x F	I = -B x F	
Depth to LNAPL (ft-bmp)	**Depth to Static Water Level** (ft-bmp)	**Well Total Depth** (ft-bmp)	**Water Column Height** (ft)	**LNAPL Thickness** (ft)	**One Casing Volume** (gallons)	**Screen Volume** (gallons)	**Above Screen Volume** (gal.)	**Total Purge Volume** (gal.)
NA	60.50	90	29.50	NA	N/A	N/A	N/A	N/A

	Gallons/Foot			
Well Diameter (inches) = 6	0.75	2	4	6
F - **Gallons per foot of casing**	0.02	0.16	0.65	1.47

Field Equipment: QED
Purge Method: Micropurge
Well Condition: OK

Time	Flow Controller Settings	Volume Purged (Liters)	Flow Rate (mL/min)	Water Level (ft-bmp)	Temperature (°C) [+/- 10%]	Conductivity (mS/cm) [+/- 10%]	Dissolved Oxygen (mg/L) [+/- 10%]	pH [+/- 0.1 pH]	ORP (mV) [+/- 10%]	Turbidity (NTU) [+/- 10%]	Observations
0808	CPM-4	0	200mL/min	60.50	20.62	2.63	3.57	6.53	54	40.7	cloudy
0811		600		60.52	20.83	2.66	0.98	6.45	45	12.6	clear
0814		1200		60.51	20.91	2.66	0.73	6.45	38	4.0	clear
0817		1800		60.50	20.95	2.67	0.51	6.45	32	1.3	clear
0820		2400		60.61	21.02	2.68	0.39	6.45	25	0.5	clear
0823		3000		60.61	21.01	2.69	0.37	6.45	23	0.3	clear
0826		3600		60.61	21.01	2.69	0.38	6.45	22	0.2	clear
0829		4200		60.61	21.02	2.69	0.37	6.45	23	0.2	clear

Purge Start Time	Purge End Time	Average Flow (mL/min)	Total Volume Purged (Liters)	Total Casing Volumes Purged	80% Recovery Water Level Depth (Dx0.20) + B	Water Level at Sampling Time (ft bmp)	Sample Collection Time	Sample Identification
0808	0829	200mL	4200	N/A	NA	61.61	0840	EWB002_WG20080325_01

Notes: (units) [stabilization criteria]

Field Parameters		
Ferrous Iron (mg/L)	PID (ppm):	Chemetrics D.O.(mg/L)
1.50	3.7	

DUP:
DRUM NO:

BOE-C6-0188191

AVOCET ENVIRONMENTAL, INC.

GROUNDWATER SAMPLING DATA SHEET

Project Name:	Boeing C-6 GWM - B1/36 WDR	**Date:**	3/25/08
Project No.:	1155.003	**Prepared by:**	BCB
Well Identification:	TMW_07	**Weather:**	Foggy / Cold
Measurement Point Description:	TOC-N	**Pump Intake:**	COS
		Screen:	65 - 85

A	B	C	D = C - B	E = B - A	G = D x F	H = 20 x F	I = -B x F	
Depth to LNAPL (ft-bmp)	**Depth to Static Water Level** (ft-bmp)	**Well Total Depth** (ft-bmp)	**Water Column Height** (ft)	**LNAPL Thickness** (ft)	**One Casing Volume** (gallons)	**Screen Volume** (gallons)	**Above Screen Volume** (gal.)	**Total Purge Volume** (gal.)
—	61.02	82.60	21.58	—	N/A	N/A	N/A	N/A

	Gallons/Foot			
Well Diameter (inches) = 2	0.75	(2)	4	6
F - Gallons per foot of casing	0.02	0.16	0.65	1.47

Field Equipment: QED

Purge Method: Micropurge

Well Condition: top of casing 1" x 1" chipped out

Time	Flow Controller Settings	Volume Purged (Liters)	Flow Rate (mL/min)	Water Level (ft-bmp)	Temperature (°C) [+/- 10%]	Conductivity (mS/cm) [+/- 10%]	Dissolved Oxygen (mg/L) [+/- 10%]	pH [+/- 0.1 pH]	ORP (mV) [+/- 10%]	Turbidity (NTU) [+/- 10%]	Observations
0857	10/5 @ 50psi	250 ml/m	250 ml/m	61.02	21.47	1.55	5.56	7.07	112	34.8	colorless
0900				—	21.64	1.55	5.64	7.11	114	6.75	colorless
0903				—	21.62	1.55	5.47	7.11	118	4.65	"
0906				—	21.63	1.55	5.42	7.12	120	4.00	"
0909				—	21.64	1.55	5.39	7.10	119	3.10	"
0912				—	21.63	1.56	5.37	7.10	119	2.98	"
0915				—	21.63	1.54	5.21	7.10	118	2.91	"
0918				—	21.77	1.55	5.23	7.10	117	2.87	"
0921				—	21.69	1.55	5.11	7.11	118	2.79	"
0924				61.07	21.74	1.55	5.07	7.14	115	2.71	

Purge Start Time	Purge End Time	Average Flow (mL/min)	Total Volume Purged (Liters)	Total Casing Volumes Purged	80% Recovery Water Level Depth (Dx0.20) + B	Water Level at Sampling Time (ft bmp)	Sample Collection Time	Sample Identification
0857	0924	250 ml/m	6.75	N/A	NA	61.07	0924	TMW_07_WG20080325_01

Notes: (units) [stabilization criteria]

Field Parameters		
Ferrous Iron (mg/L)	PID (ppm):	Chemetrics D.O.(mg/L)
0.0		

DUP:

DRUM NO:

BOE-C6-0188192

AVOCET ENVIRONMENTAL, INC.

GROUNDWATER SAMPLING DATA SHEET

Project Name:	Boeing C-6 GWM - B1/36 WDR	**Date:** 3/25/08	
Project No.:	1155.003	**Prepared by:** BCB	
Well Identification:	WCC_12S	**Weather:** Clear/Warm	
Measurement Point Description:	TOC - N	**Pump Intake:** 60S	**Screen:** 60 - 90

A	B	C	D = C - B	E = B - A	G = D x F	H = 30 x F	I = – B x F	
Depth to LNAPL (ft-bmp)	**Depth to Static Water Level** (ft-bmp)	**Well Total Depth** (ft-bmp)	**Water Column Height** (ft)	**LNAPL Thickness** (ft)	**One Casing Volume** (gallons)	**Screen Volume** (gallons)	**Above Screen Volume** (gal.)	**Total Purge Volume** (gal.)
—	58.67	92.0	33.43	—	N/A	N/A	N/A	N/A

	Gallons/Foot			
Well Diameter (inches) = 4	0.75	2	4	6
F - **Gallons per foot of casing**	0.02	0.16	0.65	1.47

Field Equipment: QED
Purge Method: Micropurge
Well Condition: OK

Time	Flow Controller Settings	Volume Purged (Liters)	Flow Rate (mL/min)	Water Level (ft-bmp)	Temperature (°C) [+/- 10%]	Conductivity (mS/cm) [+/- 10%]	Dissolved Oxygen (mg/L) [+/- 10%]	pH [+/- 0.1 pH]	ORP (mV) [+/- 10%]	Turbidity (NTU) [+/- 10%]	Observations
1237	10/5 @ 50psi		250	58.67	22.33	1.71	5.11	7.27	29	35.1	colorless
1240	↓		↓	—	21.55	1.70	5.10	7.25	31	10.2	"
1243				—	21.48	1.70	5.10	7.24	33	2.79	"
1247				—	22.01	1.71	5.05	7.25	37	2.02	"
1251				—	21.44	1.71	5.02	7.25	41	1.79	"
1254				—	21.41	1.71	5.02	7.25	46	1.69	"
1257				—	21.43	1.71	5.01	7.25	48	1.47	"
1300				—	21.42	1.71	5.01	7.25	49	1.42	"
1303					21.42	1.71	5.00	7.24	50	1.40	"
1306				58.71	21.42	1.71	4.99	7.25	51	1.41	"

Purge Start Time	Purge End Time	Average Flow (mL/min)	Total Volume Purged (Liters)	Total Casing Volumes Purged	80% Recovery Water Level Depth (Dx0.20) + B	Water Level at Sampling Time (ft bmp)	Sample Collection Time	Sample Identification
1237	1306	250	6.75	N/A	NA	58.71	1306	WCC_12S_WG2008 032501

Notes: (units) [stabilization criteria]

Field Parameters		
Ferrous Iron (mg/L)	PID (ppm):	Chemetrics D.O.(mg/L)
0.04		

DUP:
DRUM NO:

BOE-C6-0188193

BOEING

CHAIN OF CUSTODY RECORD

COC #: AVO20080325B

Customer Information

Site: C6
Company: Avocet Environmental, Inc.
Report to: Michael Rendina
Address: 16 Technology Drive, Ste. 154
Irvine
CA
92618
Email: mrendina@avocetenv.com

Project Information

Client Name: Boeing
Sampling Event: Mar-08 Bldg. 1/36 Groundwater
Project Number: 1155.006
Project Manager: Michael Rendina
PM Phone #: (949) 296-0977
Field Contact: David Lieberman
Field Contact #: (949) 274-3449
Lab Name: Test America
Lab Contact: Trupti Mistry
Lab Address: 17461 Derian Ave
Irvine, CA 92614
Lab Phone: (040) 261-1022

Project Information

Collector: Eric Costales/Brian Barsumian
Contact #:
Boeing PM:

Requested Analyses

Instructions/TAT

Legend:
Numerical values for analyses equate to turn around time in days

H - Hold
EH - Extract/Extrude & Hold

Note: Values in the cells bellow are Turn Around Times.

Sample Name	Matrix	Date	Time	No. of Containers	Anions 300.0 NO2/NO3/Cl/SO4 Water	DHC PCR Water	DHGs RSK175 Ethene/Ethane/Methane Water	TDS 160.1 Water	TOC 9060 Water	Total Alkalinity 310.1 Water	VFA 8M23G Water	VOCs 8260B C1 Water				Comments
TB_AVO20080325_01	Water	3/25/2008	0:00	6								X				
AW0076UB_WG20080325_01	Water	3/25/2008	7:50	15	10	10	10		10	10	10	10				
EWB002_WG20080325_01	Water	3/25/2008	8:40	15	10	10	10		10	10	10	10				
AW0075UB_WG20080325_01	Water	3/25/2008	9:23	15	10	10	10		10	10	10	10				
TMW_07_WG20080325_01	Water	3/25/2008	9:24	13	10		10	10	10	10	10	10				
AW0067UB_WG20080325_01	Water	3/25/2008	10:24	13	10		10		10	10	10	10				
AW0066UB_WG20080325_01	Water	3/25/2008	11:20	13	10		10		10	10	10	10				
AW0055UB_WG20080325_01	Water	3/25/2008	11:21	13	10		10	10	10	10	10	10				
AW0077UB_WG20080325_01	Water	3/25/2008	11:56	14	10	10	10		10	10	10	10				one DHG vial broken, 2 remaining.
AW0073C_WG20080325_01	Water	3/25/2008	12:30	15	10	10	10		10	10	10	10				

1. Relinquished by:	Date:	2. Received by:	Date:	3. Relinquished by:	Date:	4. Received by:	Date:
David Lieberman	3/25/2008	TAI	3/25/08	TAI	3/25/08		3/25/08
Company: Avocet Environmental, Inc.	Time: 14:06	Company: TESTAMERICA	Time: 1406	Company: TESTAMERICA	Time: 1515	Company: TAI	Time: 1515

Comments:

Geotracker EDF

Data Validation Package

TN 3/25/08 1920

A

6.1 94.1°C

BOE-C6-0188194

BOEING

CHAIN OF CUSTODY RECORD

COC #: AVO20080325B

Customer Information

Site: C6
Company: Avocet Environmental, Inc.
Report to: Michael Rendina
Address: 16 Technology Drive, Ste. 154
Irvine
CA
92618
Email: mrendina@avocetenv.com

Project Information

Client Name: Boeing
Sampling Event: Mar-08 Bldg. 1/36 Groundwater
Project Number: 1155.006
Project Manager: Michael Rendina
PM Phone #: (949) 296-0977
Field Contact: David Lieberman
Field Contact #: (949) 274-3449
Lab Name: Test America
Lab Contact: Trupti Mistry
Lab Address: 17461 Derian Ave
Irvine, CA 92614
Lab Phone: (040) 261-1022

Project Information

Collector: Eric Costales/Brian Barsumian
Boeing PM:
Contact #:

Requested Analyses

Instructions/TAT

Legend:
Numerical values for analyses equate to turn around time in days

H - Hold
EH - Extract/Extrude & Hold

Note: Values in the cells bellow are Turn Around Times.

Sample Name	Matrix	Date	Time	No. of Containers	Anions 300.0 NO2/NO3/Cl/SO4 Water	DHC PCR Water	DHGs RSK175 Ethene/Ethane/Methane Water	TDS 160.1 Water	TOC 9060 Water	Total Alkalinity 310.1 Water	VFA 8M23G Water	VOCs 8260B C1 Water				Comments
WCC_12S_WG20080325_01	Water	3/25/2008	13:06	13	10		10	10	10	10	10	10				
WCC_12S_WG20080325_02	Water	3/25/2008	13:06	6								10				
EB_AVO20080325_01	Water	3-25-08	13:00	3								X				

1. Relinquished by:	Date:	2. Received by:	Date:	3. Relinquished by:	Date:	4. Received by:	Date:
David Lieberman	3/25/2008	TAI	3/25/08		3/25/08		3/25/08
Company: Avocet Environmental, Inc.	Time: 14:06	Company: TESTAMERICA	Time: 1406	Company: TESTAMERICA	Time: 1515	Company: TAI	Time: 1515

Comments:

Geotracker EDF
Data Validation Package

6.194.1C

BOE-C6-0188195

EQUIPCO RENTALS

QED MP-20D RENTAL
CALIBRATION CERTIFICATE

SERVICE TECHNICIAN: T, H

DATE: 3/24/08

INSTRUMENT INFORMATION

RENTAL I.D. NUMBER: MP-20D T 01
SERIAL#:

CALIBRATION INFORMATION

PARAMETERS:	STANDARDS:	PASS ( )	LOT#
1. CONDUCTIVITY	1,000 µMhos	✓	5522
2. pH ZERO	pH 7	✓	5713
3. pH SLOPE	pH 4	✓	5714
pH SLOPE	pH 10	✓	1709849
4. DISSOLVED OXYGEN	Air Calibration Barometric pressure = 760mmHg	✓	N/A
5. REDOX (ORP)	231 mV (YSI Zobell solution)	✓	11502

17935 Sky Park Circle, Suite H, Irvine, CA 92614 Phone (949)263-0236 Fax (949)263-1306

EQUIPCO RENTALS

QED MP-20DT RENTAL
CALIBRATION CERTIFICATE

SERVICE TECHNICIAN: T.H DATE: 3/24/08

INSTRUMENT INFORMATION

RENTAL I.D. NUMBER: MP-20DT. 01
SERIALNUMBER:

CALIBRATION INFORMATION

PARAMETERS:	STANDARDS:	PASS ( )	LOT#
1. CONDUCTIVITY	1000 µMhos	✓	5522
2. pH ZERO	pH 7	✓	5713
3. pH SLOPE	pH 4	✓	5714
ph SLOPE	pH 10	✓	1709849
4. DISSOLVED OXYGEN	Air Calibration Barometric pressure = 760mmHg	✓	n/a
5. DISSOLVED OXYGEN ZERO TEST	(sodium sulfite)	✓	
6. TURBIDITY ZERO	0.0 NTU's	✓	100A
7. TURBIDITY SPAN	20 NTU's	✓	5070A
8. REDOX (ORP)	231 mV (YSI Zobell solution)	✓	11502

17935 Sky Park Circle, Suite H, Irvine, CA 92614 Phone (949)263-0236 Fax (949)263-1306

APPENDIX B

BOE-C6-0188198

Appendix B

Laboratory Analytical Reports

AVOCET
ENVIRONMENTAL, INC.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
17461 Derian Avenue. Suite 100, Irvine, CA 92614 (949) 261-1022 Fax:(949) 260-3297

LABORATORY REPORT

Prepared For: Avocet Environmental Inc.
16 Technology Drive, Suite 154
Irvine, CA 92618
Attention: Michael Rendina

Project: Boeing C-6 Torrance
1155.002

Sampled: 01/29/08
Received: 01/29/08
Issued: 02/26/08 17:22

NELAP #01108CA California ELAP#1197 CSDLAC #10256

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, 1 page, is included and is an integral part of this report.
This entire report was reviewed and approved for release.

CASE NARRATIVE

SAMPLE RECEIPT: Samples were received intact, at 11°C, on ice and with chain of custody documentation.

HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report.

PRESERVATION: Samples requiring preservation were verified prior to sample analysis.

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.

COMMENTS: Results that fall between the MDL and RL are 'J' flagged.

Please note the sample IDs for sample -01 (Trip Blank) and -02 (Equipment Blank) have been corrected to be consistent with the other sample IDs in this work order.

SUBCONTRACTED: Refer to the last page for specific subcontract laboratory information included in this report.

ADDITIONAL INFORMATION: Please note the sub lab data/reports from the three subcontract laboratories have been merged into our TestAmerica report.

LABORATORY ID	CLIENT ID	MATRIX
IRA2754-01	TB_AV20080129_01	Water
IRA2754-02	EB_AV20080129_01	Water
IRA2754-03	AW0074UB_WG20080129_01	Water
IRA2754-04	WCC_06S_WG20080129_01	Water
IRA2754-05	EWB002_WG20080129_01	Water
IRA2754-06	EWB002_WG20080129_02	Water

TestAmerica Irvine

Trupti Mistry
Project Manager

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
17461 Derian Avenue. Suite 100, Irvine, CA 92614 (949) 261-1022 Fax:(949) 260-3297

Avocet Environmental Inc.
16 Technology Drive, Suite 154
Irvine, CA 92618
Attention: Michael Rendina

Project ID: Boeing C-6 Torrance
1155.002
Report Number: IRA2754

Sampled: 01/29/08
Received: 01/29/08

LABORATORY ID	CLIENT ID	MATRIX
IRA2754-07	AW0073C_WG20080129_01	Water

Reviewed By:

TestAmerica Irvine

Trupti Mistry
Project Manager

The results pertain only to the samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from TestAmerica.

BOE-C6-0188200

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
17461 Derian Avenue. Suite 100, Irvine, CA 92614 (949) 261-1022 Fax:(949) 260-3297

Avocet Environmental Inc.
16 Technology Drive, Suite 154
Irvine, CA 92618
Attention: Michael Rendina

Project ID: Boeing C-6 Torrance
1155.002
Report Number: IRA2754

Sampled: 01/29/08
Received: 01/29/08

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRA2754-01 (TB_AV20080129_01 - Water)									
Reporting Units: ug/l									
Acetone	EPA 8260B	8A31018	4.5	10	ND	1	01/31/08	01/31/08	
Benzene	EPA 8260B	8A31018	0.28	1.0	ND	1	01/31/08	01/31/08	
Bromobenzene	EPA 8260B	8A31018	0.27	1.0	ND	1	01/31/08	01/31/08	
Bromochloromethane	EPA 8260B	8A31018	0.32	1.0	ND	1	01/31/08	01/31/08	
Bromodichloromethane	EPA 8260B	8A31018	0.30	1.0	ND	1	01/31/08	01/31/08	
Bromoform	EPA 8260B	8A31018	0.40	1.0	ND	1	01/31/08	01/31/08	
Bromomethane	EPA 8260B	8A31018	0.42	1.0	ND	1	01/31/08	01/31/08	
2-Butanone (MEK)	EPA 8260B	8A31018	4.7	5.0	ND	1	01/31/08	01/31/08	
tert-Butylbenzene	EPA 8260B	8A31018	0.22	1.0	ND	1	01/31/08	01/31/08	
n-Butylbenzene	EPA 8260B	8A31018	0.37	1.0	ND	1	01/31/08	01/31/08	
sec-Butylbenzene	EPA 8260B	8A31018	0.25	1.0	ND	1	01/31/08	01/31/08	
Carbon Disulfide	EPA 8260B	8A31018	0.48	1.0	ND	1	01/31/08	01/31/08	
Carbon tetrachloride	EPA 8260B	8A31018	0.28	0.50	ND	1	01/31/08	01/31/08	
Chlorobenzene	EPA 8260B	8A31018	0.36	1.0	ND	1	01/31/08	01/31/08	
Chloroethane	EPA 8260B	8A31018	0.40	2.0	ND	1	01/31/08	01/31/08	
Chloroform	EPA 8260B	8A31018	0.33	1.0	ND	1	01/31/08	01/31/08	
Chloromethane	EPA 8260B	8A31018	0.40	2.0	ND	1	01/31/08	01/31/08	L
2-Chlorotoluene	EPA 8260B	8A31018	0.28	1.0	ND	1	01/31/08	01/31/08	
4-Chlorotoluene	EPA 8260B	8A31018	0.29	1.0	ND	1	01/31/08	01/31/08	
1,2-Dibromo-3-chloropropane	EPA 8260B	8A31018	0.97	2.0	ND	1	01/31/08	01/31/08	
Dibromochloromethane	EPA 8260B	8A31018	0.28	1.0	ND	1	01/31/08	01/31/08	
1,2-Dibromoethane (EDB)	EPA 8260B	8A31018	0.40	1.0	ND	1	01/31/08	01/31/08	
1,3-Dichlorobenzene	EPA 8260B	8A31018	0.35	1.0	ND	1	01/31/08	01/31/08	
1,4-Dichlorobenzene	EPA 8260B	8A31018	0.37	1.0	ND	1	01/31/08	01/31/08	
1,2-Dichlorobenzene	EPA 8260B	8A31018	0.32	1.0	ND	1	01/31/08	01/31/08	
Dichlorodifluoromethane	EPA 8260B	8A31018	0.26	1.0	ND	1	01/31/08	01/31/08	C, L
1,1-Dichloroethane	EPA 8260B	8A31018	0.27	1.0	ND	1	01/31/08	01/31/08	
1,2-Dichloroethane	EPA 8260B	8A31018	0.28	0.50	ND	1	01/31/08	01/31/08	
cis-1,2-Dichloroethene	EPA 8260B	8A31018	0.32	1.0	ND	1	01/31/08	01/31/08	
1,1-Dichloroethene	EPA 8260B	8A31018	0.42	1.0	ND	1	01/31/08	01/31/08	
trans-1,2-Dichloroethene	EPA 8260B	8A31018	0.27	1.0	ND	1	01/31/08	01/31/08	
2,2-Dichloropropane	EPA 8260B	8A31018	0.34	1.0	ND	1	01/31/08	01/31/08	
1,2-Dichloropropane	EPA 8260B	8A31018	0.35	1.0	ND	1	01/31/08	01/31/08	
cis-1,3-Dichloropropene	EPA 8260B	8A31018	0.22	0.50	ND	1	01/31/08	01/31/08	
1,1-Dichloropropene	EPA 8260B	8A31018	0.28	1.0	ND	1	01/31/08	01/31/08	
trans-1,3-Dichloropropene	EPA 8260B	8A31018	0.32	0.50	ND	1	01/31/08	01/31/08	
Ethylbenzene	EPA 8260B	8A31018	0.25	1.0	ND	1	01/31/08	01/31/08	
Hexachlorobutadiene	EPA 8260B	8A31018	0.38	1.0	ND	1	01/31/08	01/31/08	
2-Hexanone	EPA 8260B	8A31018	2.6	6.0	ND	1	01/31/08	01/31/08	
Iodomethane	EPA 8260B	8A31018	1.0	2.0	ND	1	01/31/08	01/31/08	
Isopropylbenzene	EPA 8260B	8A31018	0.25	1.0	ND	1	01/31/08	01/31/08	

TestAmerica Irvine

Trupti Mistry
Project Manager

The results pertain only to the samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from TestAmerica.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
17461 Derian Avenue. Suite 100, Irvine, CA 92614 (949) 261-1022 Fax:(949) 260-3297

Avocet Environmental Inc.
16 Technology Drive, Suite 154
Irvine, CA 92618
Attention: Michael Rendina

Project ID: Boeing C-6 Torrance
1155.002
Report Number: IRA2754

Sampled: 01/29/08
Received: 01/29/08

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRA2754-01 (TB_AV20080129_01 - Water) - cont.									
Reporting Units: ug/l									
p-Isopropyltoluene	EPA 8260B	8A31018	0.28	1.0	ND	1	01/31/08	01/31/08	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	8A31018	0.32	1.0	ND	1	01/31/08	01/31/08	
Methylene chloride	EPA 8260B	8A31018	0.95	1.0	ND	1	01/31/08	01/31/08	
4-Methyl-2-pentanone (MIBK)	EPA 8260B	8A31018	3.5	5.0	ND	1	01/31/08	01/31/08	
n-Propylbenzene	EPA 8260B	8A31018	0.27	1.0	ND	1	01/31/08	01/31/08	
Styrene	EPA 8260B	8A31018	0.16	1.0	ND	1	01/31/08	01/31/08	
1,1,1,2-Tetrachloroethane	EPA 8260B	8A31018	0.27	1.0	ND	1	01/31/08	01/31/08	
1,1,2,2-Tetrachloroethane	EPA 8260B	8A31018	0.24	1.0	ND	1	01/31/08	01/31/08	
Tetrachloroethene	EPA 8260B	8A31018	0.32	1.0	ND	1	01/31/08	01/31/08	
Tetrahydrofuran (THF)	EPA 8260B	8A31018	3.5	10	**5.2**	1	01/31/08	01/31/08	B, Ja
Toluene	EPA 8260B	8A31018	0.36	1.0	ND	1	01/31/08	01/31/08	
1,2,3-Trichlorobenzene	EPA 8260B	8A31018	0.30	1.0	ND	1	01/31/08	01/31/08	
1,2,4-Trichlorobenzene	EPA 8260B	8A31018	0.48	1.0	ND	1	01/31/08	01/31/08	
1,1,1-Trichloroethane	EPA 8260B	8A31018	0.30	1.0	ND	1	01/31/08	01/31/08	
1,1,2-Trichloroethane	EPA 8260B	8A31018	0.30	1.0	ND	1	01/31/08	01/31/08	
Trichloroethene	EPA 8260B	8A31018	0.26	1.0	ND	1	01/31/08	01/31/08	
Trichlorofluoromethane	EPA 8260B	8A31018	0.34	2.0	ND	1	01/31/08	01/31/08	
1,2,3-Trichloropropane	EPA 8260B	8A31018	0.40	1.0	ND	1	01/31/08	01/31/08	
1,3,5-Trimethylbenzene	EPA 8260B	8A31018	0.26	1.0	ND	1	01/31/08	01/31/08	
1,2,4-Trimethylbenzene	EPA 8260B	8A31018	0.23	1.0	ND	1	01/31/08	01/31/08	
Vinyl acetate	EPA 8260B	8A31018	1.0	6.0	ND	1	01/31/08	01/31/08	
Vinyl chloride	EPA 8260B	8A31018	0.30	0.50	ND	1	01/31/08	01/31/08	L
Xylenes, Total	EPA 8260B	8A31018	0.90	1.0	ND	1	01/31/08	01/31/08	
Surrogate: Dibromofluoromethane (80-120%)					*97 %*				
Surrogate: Toluene-d8 (80-120%)					*100 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)					*93 %*				

TestAmerica Irvine

Trupti Mistry
Project Manager

The results pertain only to the samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from TestAmerica.

BOE-C6-0188201

Avocet Environmental Inc.
16 Technology Drive, Suite 154
Irvine, CA 92618
Attention: Michael Rendina

Project ID: Boeing C-6 Torrance
1155.002
Report Number: IRA2754

Sampled: 01/29/08
Received: 01/29/08

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRA2754-02 (EB_AV20080129_01 - Water)									
Reporting Units: ug/l									
Acetone	EPA 8260B	8A31018	4.5	10	**9.3**	1	01/31/08	01/31/08	Ja
Benzene	EPA 8260B	8A31018	0.28	1.0	ND	1	01/31/08	01/31/08	
Bromobenzene	EPA 8260B	8A31018	0.27	1.0	ND	1	01/31/08	01/31/08	
Bromochloromethane	EPA 8260B	8A31018	0.32	1.0	ND	1	01/31/08	01/31/08	
Bromodichloromethane	EPA 8260B	8A31018	0.30	1.0	ND	1	01/31/08	01/31/08	
Bromoform	EPA 8260B	8A31018	0.40	1.0	ND	1	01/31/08	01/31/08	
Bromomethane	EPA 8260B	8A31018	0.42	1.0	ND	1	01/31/08	01/31/08	
2-Butanone (MEK)	EPA 8260B	8A31018	4.7	5.0	ND	1	01/31/08	01/31/08	
tert-Butylbenzene	EPA 8260B	8A31018	0.22	1.0	ND	1	01/31/08	01/31/08	
n-Butylbenzene	EPA 8260B	8A31018	0.37	1.0	ND	1	01/31/08	01/31/08	
sec-Butylbenzene	EPA 8260B	8A31018	0.25	1.0	ND	1	01/31/08	01/31/08	
Carbon Disulfide	EPA 8260B	8A31018	0.48	1.0	ND	1	01/31/08	01/31/08	
Carbon tetrachloride	EPA 8260B	8A31018	0.28	0.50	ND	1	01/31/08	01/31/08	
Chlorobenzene	EPA 8260B	8A31018	0.36	1.0	ND	1	01/31/08	01/31/08	
Chloroethane	EPA 8260B	8A31018	0.40	2.0	ND	1	01/31/08	01/31/08	
Chloroform	EPA 8260B	8A31018	0.33	1.0	**0.53**	1	01/31/08	01/31/08	Ja
Chloromethane	EPA 8260B	8A31018	0.40	2.0	ND	1	01/31/08	01/31/08	L
2-Chlorotoluene	EPA 8260B	8A31018	0.28	1.0	ND	1	01/31/08	01/31/08	
4-Chlorotoluene	EPA 8260B	8A31018	0.29	1.0	ND	1	01/31/08	01/31/08	
1,2-Dibromo-3-chloropropane	EPA 8260B	8A31018	0.97	2.0	ND	1	01/31/08	01/31/08	
Dibromochloromethane	EPA 8260B	8A31018	0.28	1.0	ND	1	01/31/08	01/31/08	
1,2-Dibromoethane (EDB)	EPA 8260B	8A31018	0.40	1.0	ND	1	01/31/08	01/31/08	
1,3-Dichlorobenzene	EPA 8260B	8A31018	0.35	1.0	ND	1	01/31/08	01/31/08	
1,4-Dichlorobenzene	EPA 8260B	8A31018	0.37	1.0	ND	1	01/31/08	01/31/08	
1,2-Dichlorobenzene	EPA 8260B	8A31018	0.32	1.0	ND	1	01/31/08	01/31/08	
Dichlorodifluoromethane	EPA 8260B	8A31018	0.26	1.0	ND	1	01/31/08	01/31/08	C, L
1,1-Dichloroethane	EPA 8260B	8A31018	0.27	1.0	ND	1	01/31/08	01/31/08	
1,2-Dichloroethane	EPA 8260B	8A31018	0.28	0.50	ND	1	01/31/08	01/31/08	
cis-1,2-Dichloroethene	EPA 8260B	8A31018	0.32	1.0	ND	1	01/31/08	01/31/08	
1,1-Dichloroethene	EPA 8260B	8A31018	0.42	1.0	ND	1	01/31/08	01/31/08	
trans-1,2-Dichloroethene	EPA 8260B	8A31018	0.27	1.0	ND	1	01/31/08	01/31/08	
2,2-Dichloropropane	EPA 8260B	8A31018	0.34	1.0	ND	1	01/31/08	01/31/08	
1,2-Dichloropropane	EPA 8260B	8A31018	0.35	1.0	ND	1	01/31/08	01/31/08	
cis-1,3-Dichloropropene	EPA 8260B	8A31018	0.22	0.50	ND	1	01/31/08	01/31/08	
1,1-Dichloropropene	EPA 8260B	8A31018	0.28	1.0	ND	1	01/31/08	01/31/08	
trans-1,3-Dichloropropene	EPA 8260B	8A31018	0.32	0.50	ND	1	01/31/08	01/31/08	
Ethylbenzene	EPA 8260B	8A31018	0.25	1.0	ND	1	01/31/08	01/31/08	
Hexachlorobutadiene	EPA 8260B	8A31018	0.38	1.0	ND	1	01/31/08	01/31/08	
2-Hexanone	EPA 8260B	8A31018	2.6	6.0	ND	1	01/31/08	01/31/08	
Iodomethane	EPA 8260B	8A31018	1.0	2.0	ND	1	01/31/08	01/31/08	
Isopropylbenzene	EPA 8260B	8A31018	0.25	1.0	ND	1	01/31/08	01/31/08	

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Project Manager

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
17461 Derian Avenue. Suite 100, Irvine, CA 92614 (949) 261-1022 Fax:(949) 260-3297

Avocet Environmental Inc.
16 Technology Drive, Suite 154
Irvine, CA 92618
Attention: Michael Rendina

Project ID: Boeing C-6 Torrance
1155.002
Report Number: IRA2754

Sampled: 01/29/08
Received: 01/29/08

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRA2754-02 (EB_AV20080129_01 - Water) - cont.									
Reporting Units: ug/l									
p-Isopropyltoluene	EPA 8260B	8A31018	0.28	1.0	ND	1	01/31/08	01/31/08	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	8A31018	0.32	1.0	ND	1	01/31/08	01/31/08	
Methylene chloride	EPA 8260B	8A31018	0.95	1.0	ND	1	01/31/08	01/31/08	
4-Methyl-2-pentanone (MIBK)	EPA 8260B	8A31018	3.5	5.0	ND	1	01/31/08	01/31/08	
n-Propylbenzene	EPA 8260B	8A31018	0.27	1.0	ND	1	01/31/08	01/31/08	
Styrene	EPA 8260B	8A31018	0.16	1.0	ND	1	01/31/08	01/31/08	
1,1,1,2-Tetrachloroethane	EPA 8260B	8A31018	0.27	1.0	ND	1	01/31/08	01/31/08	
1,1,2,2-Tetrachloroethane	EPA 8260B	8A31018	0.24	1.0	ND	1	01/31/08	01/31/08	
Tetrachloroethene	EPA 8260B	8A31018	0.32	1.0	ND	1	01/31/08	01/31/08	
Tetrahydrofuran (THF)	EPA 8260B	8A31018	3.5	10	ND	1	01/31/08	01/31/08	
Toluene	EPA 8260B	8A31018	0.36	1.0	ND	1	01/31/08	01/31/08	
1,2,3-Trichlorobenzene	EPA 8260B	8A31018	0.30	1.0	ND	1	01/31/08	01/31/08	
1,2,4-Trichlorobenzene	EPA 8260B	8A31018	0.48	1.0	ND	1	01/31/08	01/31/08	
1,1,1-Trichloroethane	EPA 8260B	8A31018	0.30	1.0	ND	1	01/31/08	01/31/08	
1,1,2-Trichloroethane	EPA 8260B	8A31018	0.30	1.0	ND	1	01/31/08	01/31/08	
Trichloroethene	EPA 8260B	8A31018	0.26	1.0	ND	1	01/31/08	01/31/08	
Trichlorofluoromethane	EPA 8260B	8A31018	0.34	2.0	ND	1	01/31/08	01/31/08	
1,2,3-Trichloropropane	EPA 8260B	8A31018	0.40	1.0	ND	1	01/31/08	01/31/08	
1,3,5-Trimethylbenzene	EPA 8260B	8A31018	0.26	1.0	ND	1	01/31/08	01/31/08	
1,2,4-Trimethylbenzene	EPA 8260B	8A31018	0.23	1.0	ND	1	01/31/08	01/31/08	
Vinyl acetate	EPA 8260B	8A31018	1.0	6.0	ND	1	01/31/08	01/31/08	
Vinyl chloride	EPA 8260B	8A31018	0.30	0.50	ND	1	01/31/08	01/31/08	L
Xylenes, Total	EPA 8260B	8A31018	0.90	1.0	ND	1	01/31/08	01/31/08	
Surrogate: Dibromofluoromethane (80-120%)					*97 %*				
Surrogate: Toluene-d8 (80-120%)					*100 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)					*93 %*				

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BOE-C6-0188202

Avocet Environmental Inc.
16 Technology Drive, Suite 154
Irvine, CA 92618
Attention: Michael Rendina

Project ID: Boeing C-6 Torrance
1155.002
Report Number: IRA2754

Sampled: 01/29/08
Received: 01/29/08

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRA2754-03 (AW0074UB_WG20080129_01 - Water)									
Reporting Units: ug/l									
1,1-Dichloroethene	EPA 8260B	8A31018	21	50	**4300**	50	01/31/08	01/31/08	
Trichloroethene	EPA 8260B	8A31018	13	50	**2000**	50	01/31/08	01/31/08	
Surrogate: Dibromofluoromethane (80-120%)					*97 %*				
Surrogate: Toluene-d8 (80-120%)					*101 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)					*89 %*				
Sample ID: IRA2754-03RE1 (AW0074UB_WG20080129_01 - Water)									
Reporting Units: ug/l									
Acetone	EPA 8260B	8B01005	45	100	**45**	10	02/01/08	02/01/08	Ja
Benzene	EPA 8260B	8B01005	2.8	10	**22**	10	02/01/08	02/01/08	
Bromobenzene	EPA 8260B	8B01005	2.7	10	ND	10	02/01/08	02/01/08	
Bromochloromethane	EPA 8260B	8B01005	3.2	10	ND	10	02/01/08	02/01/08	
Bromodichloromethane	EPA 8260B	8B01005	3.0	10	ND	10	02/01/08	02/01/08	
Bromoform	EPA 8260B	8B01005	4.0	10	ND	10	02/01/08	02/01/08	
Bromomethane	EPA 8260B	8B01005	4.2	10	ND	10	02/01/08	02/01/08	
2-Butanone (MEK)	EPA 8260B	8B01005	47	50	ND	10	02/01/08	02/01/08	
tert-Butylbenzene	EPA 8260B	8B01005	2.2	10	ND	10	02/01/08	02/01/08	
n-Butylbenzene	EPA 8260B	8B01005	3.7	10	ND	10	02/01/08	02/01/08	
sec-Butylbenzene	EPA 8260B	8B01005	2.5	10	ND	10	02/01/08	02/01/08	
Carbon Disulfide	EPA 8260B	8B01005	4.8	10	ND	10	02/01/08	02/01/08	
Carbon tetrachloride	EPA 8260B	8B01005	2.8	5.0	ND	10	02/01/08	02/01/08	
Chlorobenzene	EPA 8260B	8B01005	3.6	10	ND	10	02/01/08	02/01/08	
Chloroethane	EPA 8260B	8B01005	4.0	20	ND	10	02/01/08	02/01/08	
Chloroform	EPA 8260B	8B01005	3.3	10	**4.0**	10	02/01/08	02/01/08	Ja
Chloromethane	EPA 8260B	8B01005	4.0	20	ND	10	02/01/08	02/01/08	
2-Chlorotoluene	EPA 8260B	8B01005	2.8	10	ND	10	02/01/08	02/01/08	
4-Chlorotoluene	EPA 8260B	8B01005	2.9	10	ND	10	02/01/08	02/01/08	
1,2-Dibromo-3-chloropropane	EPA 8260B	8B01005	9.7	20	ND	10	02/01/08	02/01/08	
Dibromochloromethane	EPA 8260B	8B01005	2.8	10	ND	10	02/01/08	02/01/08	
1,2-Dibromoethane (EDB)	EPA 8260B	8B01005	4.0	10	ND	10	02/01/08	02/01/08	
1,3-Dichlorobenzene	EPA 8260B	8B01005	3.5	10	ND	10	02/01/08	02/01/08	
1,4-Dichlorobenzene	EPA 8260B	8B01005	3.7	10	ND	10	02/01/08	02/01/08	
1,2-Dichlorobenzene	EPA 8260B	8B01005	3.2	10	ND	10	02/01/08	02/01/08	
Dichlorodifluoromethane	EPA 8260B	8B01005	2.6	10	ND	10	02/01/08	02/01/08	
1,1-Dichloroethane	EPA 8260B	8B01005	2.7	10	**72**	10	02/01/08	02/01/08	
1,2-Dichloroethane	EPA 8260B	8B01005	2.8	5.0	**7.3**	10	02/01/08	02/01/08	
cis-1,2-Dichloroethene	EPA 8260B	8B01005	3.2	10	**730**	10	02/01/08	02/01/08	
trans-1,2-Dichloroethene	EPA 8260B	8B01005	2.7	10	**77**	10	02/01/08	02/01/08	
2,2-Dichloropropane	EPA 8260B	8B01005	3.4	10	ND	10	02/01/08	02/01/08	
1,2-Dichloropropane	EPA 8260B	8B01005	3.5	10	ND	10	02/01/08	02/01/08	
cis-1,3-Dichloropropene	EPA 8260B	8B01005	2.2	5.0	ND	10	02/01/08	02/01/08	

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Avocet Environmental Inc.
16 Technology Drive, Suite 154
Irvine, CA 92618
Attention: Michael Rendina

Project ID: Boeing C-6 Torrance
1155.002
Report Number: IRA2754

Sampled: 01/29/08
Received: 01/29/08

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRA2754-03RE1 (AW0074UB_WG20080129_01 - Water) - cont.									
Reporting Units: ug/l									
1,1-Dichloropropene	EPA 8260B	8B01005	2.8	10	ND	10	02/01/08	02/01/08	
trans-1,3-Dichloropropene	EPA 8260B	8B01005	3.2	5.0	ND	10	02/01/08	02/01/08	
Ethylbenzene	EPA 8260B	8B01005	2.5	10	ND	10	02/01/08	02/01/08	
Hexachlorobutadiene	EPA 8260B	8B01005	3.8	10	ND	10	02/01/08	02/01/08	
2-Hexanone	EPA 8260B	8B01005	26	60	ND	10	02/01/08	02/01/08	
Iodomethane	EPA 8260B	8B01005	10	20	ND	10	02/01/08	02/01/08	
Isopropylbenzene	EPA 8260B	8B01005	2.5	10	ND	10	02/01/08	02/01/08	
p-Isopropyltoluene	EPA 8260B	8B01005	2.8	10	ND	10	02/01/08	02/01/08	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	8B01005	3.2	10	ND	10	02/01/08	02/01/08	
Methylene chloride	EPA 8260B	8B01005	9.5	10	ND	10	02/01/08	02/01/08	
4-Methyl-2-pentanone (MIBK)	EPA 8260B	8B01005	35	50	ND	10	02/01/08	02/01/08	
n-Propylbenzene	EPA 8260B	8B01005	2.7	10	ND	10	02/01/08	02/01/08	
Styrene	EPA 8260B	8B01005	1.6	10	ND	10	02/01/08	02/01/08	
1,1,1,2-Tetrachloroethane	EPA 8260B	8B01005	2.7	10	ND	10	02/01/08	02/01/08	
1,1,2,2-Tetrachloroethane	EPA 8260B	8B01005	2.4	10	ND	10	02/01/08	02/01/08	
Tetrachloroethene	EPA 8260B	8B01005	3.2	10	ND	10	02/01/08	02/01/08	
Tetrahydrofuran (THF)	EPA 8260B	8B01005	35	100	**52**	10	02/01/08	02/01/08	Ja
Toluene	EPA 8260B	8B01005	3.6	10	**220**	10	02/01/08	02/01/08	
1,2,3-Trichlorobenzene	EPA 8260B	8B01005	3.0	10	ND	10	02/01/08	02/01/08	
1,2,4-Trichlorobenzene	EPA 8260B	8B01005	4.8	10	ND	10	02/01/08	02/01/08	
1,1,1-Trichloroethane	EPA 8260B	8B01005	3.0	10	**3.1**	10	02/01/08	02/01/08	Ja
1,1,2-Trichloroethane	EPA 8260B	8B01005	3.0	10	**3.4**	10	02/01/08	02/01/08	Ja
Trichlorofluoromethane	EPA 8260B	8B01005	3.4	20	ND	10	02/01/08	02/01/08	
1,2,3-Trichloropropane	EPA 8260B	8B01005	4.0	10	ND	10	02/01/08	02/01/08	
1,3,5-Trimethylbenzene	EPA 8260B	8B01005	2.6	10	ND	10	02/01/08	02/01/08	
1,2,4-Trimethylbenzene	EPA 8260B	8B01005	2.3	10	ND	10	02/01/08	02/01/08	
Vinyl acetate	EPA 8260B	8B01005	10	60	ND	10	02/01/08	02/01/08	
Vinyl chloride	EPA 8260B	8B01005	3.0	5.0	**3.9**	10	02/01/08	02/01/08	Ja
Xylenes, Total	EPA 8260B	8B01005	9.0	10	ND	10	02/01/08	02/01/08	
Surrogate: Dibromofluoromethane (80-120%)					*109 %*				
Surrogate: Toluene-d8 (80-120%)					*102 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)					*91 %*				

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BOE-C6-0188203

Avocet Environmental Inc.
16 Technology Drive, Suite 154
Irvine, CA 92618
Attention: Michael Rendina

Project ID: Boeing C-6 Torrance
1155.002
Report Number: IRA2754

Sampled: 01/29/08
Received: 01/29/08

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRA2754-04 (WCC_06S_WG20080129_01 - Water)									
Reporting Units: ug/l									
Acetone	EPA 8260B	8A31018	4.5	10	ND	1	01/31/08	01/31/08	
Benzene	EPA 8260B	8A31018	0.28	1.0	ND	1	01/31/08	01/31/08	
Bromobenzene	EPA 8260B	8A31018	0.27	1.0	ND	1	01/31/08	01/31/08	
Bromochloromethane	EPA 8260B	8A31018	0.32	1.0	ND	1	01/31/08	01/31/08	
Bromodichloromethane	EPA 8260B	8A31018	0.30	1.0	ND	1	01/31/08	01/31/08	
Bromoform	EPA 8260B	8A31018	0.40	1.0	ND	1	01/31/08	01/31/08	
Bromomethane	EPA 8260B	8A31018	0.42	1.0	ND	1	01/31/08	01/31/08	
2-Butanone (MEK)	EPA 8260B	8A31018	4.7	5.0	ND	1	01/31/08	01/31/08	
tert-Butylbenzene	EPA 8260B	8A31018	0.22	1.0	ND	1	01/31/08	01/31/08	
n-Butylbenzene	EPA 8260B	8A31018	0.37	1.0	ND	1	01/31/08	01/31/08	
sec-Butylbenzene	EPA 8260B	8A31018	0.25	1.0	ND	1	01/31/08	01/31/08	
Carbon Disulfide	EPA 8260B	8A31018	0.48	1.0	ND	1	01/31/08	01/31/08	
Carbon tetrachloride	EPA 8260B	8A31018	0.28	0.50	ND	1	01/31/08	01/31/08	
Chlorobenzene	EPA 8260B	8A31018	0.36	1.0	ND	1	01/31/08	01/31/08	
Chloroethane	EPA 8260B	8A31018	0.40	2.0	ND	1	01/31/08	01/31/08	
Chloroform	EPA 8260B	8A31018	0.33	1.0	ND	1	01/31/08	01/31/08	
Chloromethane	EPA 8260B	8A31018	0.40	2.0	ND	1	01/31/08	01/31/08	L, M7
2-Chlorotoluene	EPA 8260B	8A31018	0.28	1.0	ND	1	01/31/08	01/31/08	
4-Chlorotoluene	EPA 8260B	8A31018	0.29	1.0	ND	1	01/31/08	01/31/08	
1,2-Dibromo-3-chloropropane	EPA 8260B	8A31018	0.97	2.0	ND	1	01/31/08	01/31/08	
Dibromochloromethane	EPA 8260B	8A31018	0.28	1.0	ND	1	01/31/08	01/31/08	
1,2-Dibromoethane (EDB)	EPA 8260B	8A31018	0.40	1.0	ND	1	01/31/08	01/31/08	
1,3-Dichlorobenzene	EPA 8260B	8A31018	0.35	1.0	ND	1	01/31/08	01/31/08	
1,4-Dichlorobenzene	EPA 8260B	8A31018	0.37	1.0	ND	1	01/31/08	01/31/08	
1,2-Dichlorobenzene	EPA 8260B	8A31018	0.32	1.0	ND	1	01/31/08	01/31/08	
Dichlorodifluoromethane	EPA 8260B	8A31018	0.26	1.0	ND	1	01/31/08	01/31/08	C, L, M7
1,1-Dichloroethane	EPA 8260B	8A31018	0.27	1.0	ND	1	01/31/08	01/31/08	
1,2-Dichloroethane	EPA 8260B	8A31018	0.28	0.50	ND	1	01/31/08	01/31/08	
cis-1,2-Dichloroethene	EPA 8260B	8A31018	0.32	1.0	**1.2**	1	01/31/08	01/31/08	
1,1-Dichloroethene	EPA 8260B	8A31018	0.42	1.0	**21**	1	01/31/08	01/31/08	
trans-1,2-Dichloroethene	EPA 8260B	8A31018	0.27	1.0	ND	1	01/31/08	01/31/08	
2,2-Dichloropropane	EPA 8260B	8A31018	0.34	1.0	ND	1	01/31/08	01/31/08	
1,2-Dichloropropane	EPA 8260B	8A31018	0.35	1.0	ND	1	01/31/08	01/31/08	
cis-1,3-Dichloropropene	EPA 8260B	8A31018	0.22	0.50	ND	1	01/31/08	01/31/08	
1,1-Dichloropropene	EPA 8260B	8A31018	0.28	1.0	ND	1	01/31/08	01/31/08	
trans-1,3-Dichloropropene	EPA 8260B	8A31018	0.32	0.50	ND	1	01/31/08	01/31/08	
Ethylbenzene	EPA 8260B	8A31018	0.25	1.0	ND	1	01/31/08	01/31/08	
Hexachlorobutadiene	EPA 8260B	8A31018	0.38	1.0	ND	1	01/31/08	01/31/08	
2-Hexanone	EPA 8260B	8A31018	2.6	6.0	ND	1	01/31/08	01/31/08	
Iodomethane	EPA 8260B	8A31018	1.0	2.0	ND	1	01/31/08	01/31/08	
Isopropylbenzene	EPA 8260B	8A31018	0.25	1.0	ND	1	01/31/08	01/31/08	

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Project Manager

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Irvine, CA 92618
Attention: Michael Rendina

Project ID: Boeing C-6 Torrance
1155.002
Report Number: IRA2754

Sampled: 01/29/08
Received: 01/29/08

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRA2754-04 (WCC_06S_WG20080129_01 - Water) - cont.									
Reporting Units: ug/l									
p-Isopropyltoluene	EPA 8260B	8A31018	0.28	1.0	ND	1	01/31/08	01/31/08	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	8A31018	0.32	1.0	ND	1	01/31/08	01/31/08	
Methylene chloride	EPA 8260B	8A31018	0.95	1.0	ND	1	01/31/08	01/31/08	
4-Methyl-2-pentanone (MIBK)	EPA 8260B	8A31018	3.5	5.0	ND	1	01/31/08	01/31/08	
n-Propylbenzene	EPA 8260B	8A31018	0.27	1.0	ND	1	01/31/08	01/31/08	
Styrene	EPA 8260B	8A31018	0.16	1.0	ND	1	01/31/08	01/31/08	
1,1,1,2-Tetrachloroethane	EPA 8260B	8A31018	0.27	1.0	ND	1	01/31/08	01/31/08	
1,1,2,2-Tetrachloroethane	EPA 8260B	8A31018	0.24	1.0	ND	1	01/31/08	01/31/08	
Tetrachloroethene	EPA 8260B	8A31018	0.32	1.0	ND	1	01/31/08	01/31/08	
Tetrahydrofuran (THF)	EPA 8260B	8A31018	3.5	10	ND	1	01/31/08	01/31/08	
Toluene	EPA 8260B	8A31018	0.36	1.0	ND	1	01/31/08	01/31/08	
1,2,3-Trichlorobenzene	EPA 8260B	8A31018	0.30	1.0	ND	1	01/31/08	01/31/08	
1,2,4-Trichlorobenzene	EPA 8260B	8A31018	0.48	1.0	ND	1	01/31/08	01/31/08	
1,1,1-Trichloroethane	EPA 8260B	8A31018	0.30	1.0	ND	1	01/31/08	01/31/08	
1,1,2-Trichloroethane	EPA 8260B	8A31018	0.30	1.0	ND	1	01/31/08	01/31/08	
Trichloroethene	EPA 8260B	8A31018	0.26	1.0	**22**	1	01/31/08	01/31/08	
Trichlorofluoromethane	EPA 8260B	8A31018	0.34	2.0	ND	1	01/31/08	01/31/08	
1,2,3-Trichloropropane	EPA 8260B	8A31018	0.40	1.0	ND	1	01/31/08	01/31/08	
1,3,5-Trimethylbenzene	EPA 8260B	8A31018	0.26	1.0	ND	1	01/31/08	01/31/08	
1,2,4-Trimethylbenzene	EPA 8260B	8A31018	0.23	1.0	ND	1	01/31/08	01/31/08	
Vinyl acetate	EPA 8260B	8A31018	1.0	6.0	ND	1	01/31/08	01/31/08	
Xylenes, Total	EPA 8260B	8A31018	0.90	1.0	ND	1	01/31/08	01/31/08	
Surrogate: Dibromofluoromethane (80-120%)					*98 %*				
Surrogate: Toluene-d8 (80-120%)					*100 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)					*90 %*				

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BOE-C6-0188204

Avocet Environmental Inc.
16 Technology Drive, Suite 154
Irvine, CA 92618
Attention: Michael Rendina

Project ID: Boeing C-6 Torrance
1155.002
Report Number: IRA2754

Sampled: 01/29/08
Received: 01/29/08

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRA2754-04RE1 (WCC_06S_WG20080129_01 - Water) - cont.									
Reporting Units: ug/l									
Vinyl chloride	EPA 8260B	8B01005	0.30	0.50	**0.46**	1	02/01/08	02/01/08	Ja
Surrogate: Dibromofluoromethane (80-120%)					*108 %*				
Surrogate: Toluene-d8 (80-120%)					*102 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)					*90 %*				

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Project Manager

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
17461 Derian Avenue, Suite 100, Irvine, CA 92614 (949) 261-1022 Fax:(949) 260-3297

Avocet Environmental Inc.
16 Technology Drive, Suite 154
Irvine, CA 92618
Attention: Michael Rendina

Project ID: Boeing C-6 Torrance
1155.002
Report Number: IRA2754

Sampled: 01/29/08
Received: 01/29/08

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRA2754-05 (EWB002_WG20080129_01 - Water)									
Reporting Units: ug/l									
Vinyl chloride	EPA 8260B	8A31024	60	100	**6800**	200	01/31/08	01/31/08	
Surrogate: Dibromofluoromethane (80-120%)					*108 %*				
Surrogate: Toluene-d8 (80-120%)					*101 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)					*91 %*				
Sample ID: IRA2754-05RE1 (EWB002_WG20080129_01 - Water)									
Reporting Units: ug/l									
Acetone	EPA 8260B	8A31018	180	400	**420**	40	01/31/08	01/31/08	
Benzene	EPA 8260B	8A31018	11	40	**35**	40	01/31/08	01/31/08	Ja
Bromobenzene	EPA 8260B	8A31018	11	40	ND	40	01/31/08	01/31/08	
Bromochloromethane	EPA 8260B	8A31018	13	40	ND	40	01/31/08	01/31/08	
Bromodichloromethane	EPA 8260B	8A31018	12	40	ND	40	01/31/08	01/31/08	
Bromoform	EPA 8260B	8A31018	16	40	ND	40	01/31/08	01/31/08	
Bromomethane	EPA 8260B	8A31018	17	40	ND	40	01/31/08	01/31/08	
2-Butanone (MEK)	EPA 8260B	8A31018	190	200	**370**	40	01/31/08	01/31/08	
tert-Butylbenzene	EPA 8260B	8A31018	8.8	40	ND	40	01/31/08	01/31/08	
n-Butylbenzene	EPA 8260B	8A31018	15	40	ND	40	01/31/08	01/31/08	
sec-Butylbenzene	EPA 8260B	8A31018	10	40	ND	40	01/31/08	01/31/08	
Carbon Disulfide	EPA 8260B	8A31018	19	40	ND	40	01/31/08	01/31/08	
Carbon tetrachloride	EPA 8260B	8A31018	11	20	ND	40	01/31/08	01/31/08	
Chlorobenzene	EPA 8260B	8A31018	14	40	ND	40	01/31/08	01/31/08	
Chloroethane	EPA 8260B	8A31018	16	80	ND	40	01/31/08	01/31/08	
Chloroform	EPA 8260B	8A31018	13	40	**14**	40	01/31/08	01/31/08	Ja
Chloromethane	EPA 8260B	8A31018	16	80	ND	40	01/31/08	01/31/08	L
2-Chlorotoluene	EPA 8260B	8A31018	11	40	ND	40	01/31/08	01/31/08	
4-Chlorotoluene	EPA 8260B	8A31018	12	40	ND	40	01/31/08	01/31/08	
1,2-Dibromo-3-chloropropane	EPA 8260B	8A31018	39	80	ND	40	01/31/08	01/31/08	
Dibromochloromethane	EPA 8260B	8A31018	11	40	ND	40	01/31/08	01/31/08	
1,2-Dibromoethane (EDB)	EPA 8260B	8A31018	16	40	ND	40	01/31/08	01/31/08	
1,3-Dichlorobenzene	EPA 8260B	8A31018	14	40	ND	40	01/31/08	01/31/08	
1,4-Dichlorobenzene	EPA 8260B	8A31018	15	40	ND	40	01/31/08	01/31/08	
1,2-Dichlorobenzene	EPA 8260B	8A31018	13	40	ND	40	01/31/08	01/31/08	
Dichlorodifluoromethane	EPA 8260B	8A31018	10	40	ND	40	01/31/08	01/31/08	C, L
1,1-Dichloroethane	EPA 8260B	8A31018	11	40	**390**	40	01/31/08	01/31/08	
1,2-Dichloroethane	EPA 8260B	8A31018	11	20	**85**	40	01/31/08	01/31/08	
cis-1,2-Dichloroethene	EPA 8260B	8A31018	13	40	**2400**	40	01/31/08	01/31/08	
1,1-Dichloroethene	EPA 8260B	8A31018	17	40	**3200**	40	01/31/08	01/31/08	
trans-1,2-Dichloroethene	EPA 8260B	8A31018	11	40	**220**	40	01/31/08	01/31/08	
2,2-Dichloropropane	EPA 8260B	8A31018	14	40	ND	40	01/31/08	01/31/08	
1,2-Dichloropropane	EPA 8260B	8A31018	14	40	ND	40	01/31/08	01/31/08	
cis-1,3-Dichloropropene	EPA 8260B	8A31018	8.8	20	ND	40	01/31/08	01/31/08	

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BOE-C6-0188205

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
17461 Derian Avenue. Suite 100, Irvine, CA 92614 (949) 261-1022 Fax:(949) 260-3297

Avocet Environmental Inc.
16 Technology Drive, Suite 154
Irvine, CA 92618
Attention: Michael Rendina

Project ID: Boeing C-6 Torrance
1155.002
Report Number: IRA2754

Sampled: 01/29/08
Received: 01/29/08

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRA2754-05RE1 (EWB002_WG20080129_01 - Water) - cont.									
Reporting Units: ug/l									
1,1-Dichloropropene	EPA 8260B	8A31018	11	40	ND	40	01/31/08	01/31/08	
trans-1,3-Dichloropropene	EPA 8260B	8A31018	13	20	ND	40	01/31/08	01/31/08	
Ethylbenzene	EPA 8260B	8A31018	10	40	ND	40	01/31/08	01/31/08	
Hexachlorobutadiene	EPA 8260B	8A31018	15	40	ND	40	01/31/08	01/31/08	
2-Hexanone	EPA 8260B	8A31018	100	240	ND	40	01/31/08	01/31/08	
Iodomethane	EPA 8260B	8A31018	40	80	ND	40	01/31/08	01/31/08	
Isopropylbenzene	EPA 8260B	8A31018	10	40	ND	40	01/31/08	01/31/08	
p-Isopropyltoluene	EPA 8260B	8A31018	11	40	ND	40	01/31/08	01/31/08	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	8A31018	13	40	ND	40	01/31/08	01/31/08	
Methylene chloride	EPA 8260B	8A31018	38	40	**68**	40	01/31/08	01/31/08	
4-Methyl-2-pentanone (MIBK)	EPA 8260B	8A31018	140	200	**1400**	40	01/31/08	01/31/08	
n-Propylbenzene	EPA 8260B	8A31018	11	40	ND	40	01/31/08	01/31/08	
Styrene	EPA 8260B	8A31018	6.4	40	ND	40	01/31/08	01/31/08	
1,1,1,2-Tetrachloroethane	EPA 8260B	8A31018	11	40	ND	40	01/31/08	01/31/08	
1,1,2,2-Tetrachloroethane	EPA 8260B	8A31018	9.6	40	ND	40	01/31/08	01/31/08	
Tetrachloroethene	EPA 8260B	8A31018	13	40	ND	40	01/31/08	01/31/08	
Tetrahydrofuran (THF)	EPA 8260B	8A31018	140	400	**140**	40	01/31/08	01/31/08	Ja
Toluene	EPA 8260B	8A31018	14	40	**2600**	40	01/31/08	01/31/08	
1,2,3-Trichlorobenzene	EPA 8260B	8A31018	12	40	ND	40	01/31/08	01/31/08	
1,2,4-Trichlorobenzene	EPA 8260B	8A31018	19	40	ND	40	01/31/08	01/31/08	
1,1,1-Trichloroethane	EPA 8260B	8A31018	12	40	ND	40	01/31/08	01/31/08	
1,1,2-Trichloroethane	EPA 8260B	8A31018	12	40	**37**	40	01/31/08	01/31/08	Ja
Trichloroethene	EPA 8260B	8A31018	10	40	ND	40	01/31/08	01/31/08	
Trichlorofluoromethane	EPA 8260B	8A31018	14	80	ND	40	01/31/08	01/31/08	
1,2,3-Trichloropropane	EPA 8260B	8A31018	16	40	ND	40	01/31/08	01/31/08	
1,3,5-Trimethylbenzene	EPA 8260B	8A31018	10	40	ND	40	01/31/08	01/31/08	
1,2,4-Trimethylbenzene	EPA 8260B	8A31018	9.2	40	ND	40	01/31/08	01/31/08	
Vinyl acetate	EPA 8260B	8A31018	40	240	ND	40	01/31/08	01/31/08	
Xylenes, Total	EPA 8260B	8A31018	36	40	ND	40	01/31/08	01/31/08	
Surrogate: Dibromofluoromethane (80-120%)					*100 %*				
Surrogate: Toluene-d8 (80-120%)					*102 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)					*90 %*				

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Project Manager

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Avocet Environmental Inc.
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Irvine, CA 92618
Attention: Michael Rendina

Project ID: Boeing C-6 Torrance
1155.002
Report Number: IRA2754

Sampled: 01/29/08
Received: 01/29/08

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRA2754-06 (EWB002_WG20080129_02 - Water)									
Reporting Units: ug/l									
Vinyl chloride	EPA 8260B	8A31024	60	100	**7500**	200	01/31/08	01/31/08	
Surrogate: Dibromofluoromethane (80-120%)					*110 %*				
Surrogate: Toluene-d8 (80-120%)					*102 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)					*91 %*				
Sample ID: IRA2754-06RE1 (EWB002_WG20080129_02 - Water)									
Reporting Units: ug/l									
Acetone	EPA 8260B	8A31018	180	400	**490**	40	01/31/08	01/31/08	
Benzene	EPA 8260B	8A31018	11	40	**38**	40	01/31/08	01/31/08	Ja
Bromobenzene	EPA 8260B	8A31018	11	40	ND	40	01/31/08	01/31/08	
Bromochloromethane	EPA 8260B	8A31018	13	40	ND	40	01/31/08	01/31/08	
Bromodichloromethane	EPA 8260B	8A31018	12	40	ND	40	01/31/08	01/31/08	
Bromoform	EPA 8260B	8A31018	16	40	ND	40	01/31/08	01/31/08	
Bromomethane	EPA 8260B	8A31018	17	40	ND	40	01/31/08	01/31/08	
2-Butanone (MEK)	EPA 8260B	8A31018	190	200	**310**	40	01/31/08	01/31/08	
tert-Butylbenzene	EPA 8260B	8A31018	8.8	40	ND	40	01/31/08	01/31/08	
n-Butylbenzene	EPA 8260B	8A31018	15	40	ND	40	01/31/08	01/31/08	
sec-Butylbenzene	EPA 8260B	8A31018	10	40	ND	40	01/31/08	01/31/08	
Carbon Disulfide	EPA 8260B	8A31018	19	40	ND	40	01/31/08	01/31/08	
Carbon tetrachloride	EPA 8260B	8A31018	11	20	ND	40	01/31/08	01/31/08	
Chlorobenzene	EPA 8260B	8A31018	14	40	ND	40	01/31/08	01/31/08	
Chloroethane	EPA 8260B	8A31018	16	80	ND	40	01/31/08	01/31/08	
Chloroform	EPA 8260B	8A31018	13	40	**14**	40	01/31/08	01/31/08	Ja
Chloromethane	EPA 8260B	8A31018	16	80	ND	40	01/31/08	01/31/08	L
2-Chlorotoluene	EPA 8260B	8A31018	11	40	ND	40	01/31/08	01/31/08	
4-Chlorotoluene	EPA 8260B	8A31018	12	40	ND	40	01/31/08	01/31/08	
1,2-Dibromo-3-chloropropane	EPA 8260B	8A31018	39	80	ND	40	01/31/08	01/31/08	
Dibromochloromethane	EPA 8260B	8A31018	11	40	ND	40	01/31/08	01/31/08	
1,2-Dibromoethane (EDB)	EPA 8260B	8A31018	16	40	ND	40	01/31/08	01/31/08	
1,3-Dichlorobenzene	EPA 8260B	8A31018	14	40	ND	40	01/31/08	01/31/08	
1,4-Dichlorobenzene	EPA 8260B	8A31018	15	40	ND	40	01/31/08	01/31/08	
1,2-Dichlorobenzene	EPA 8260B	8A31018	13	40	ND	40	01/31/08	01/31/08	
Dichlorodifluoromethane	EPA 8260B	8A31018	10	40	ND	40	01/31/08	01/31/08	C, L
1,1-Dichloroethane	EPA 8260B	8A31018	11	40	**420**	40	01/31/08	01/31/08	
1,2-Dichloroethane	EPA 8260B	8A31018	11	20	**94**	40	01/31/08	01/31/08	
cis-1,2-Dichloroethene	EPA 8260B	8A31018	13	40	**2800**	40	01/31/08	01/31/08	
1,1-Dichloroethene	EPA 8260B	8A31018	17	40	**3700**	40	01/31/08	01/31/08	
trans-1,2-Dichloroethene	EPA 8260B	8A31018	11	40	**240**	40	01/31/08	01/31/08	
2,2-Dichloropropane	EPA 8260B	8A31018	14	40	ND	40	01/31/08	01/31/08	
1,2-Dichloropropane	EPA 8260B	8A31018	14	40	ND	40	01/31/08	01/31/08	
cis-1,3-Dichloropropene	EPA 8260B	8A31018	8.8	20	ND	40	01/31/08	01/31/08	

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BOE-C6-0188206

Avocet Environmental Inc.
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Attention: Michael Rendina

Project ID: Boeing C-6 Torrance
1155.002
Report Number: IRA2754

Sampled: 01/29/08
Received: 01/29/08

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRA2754-06RE1 (EWB002_WG20080129_02 - Water) - cont.									
Reporting Units: ug/l									
1,1-Dichloropropene	EPA 8260B	8A31018	11	40	ND	40	01/31/08	01/31/08	
trans-1,3-Dichloropropene	EPA 8260B	8A31018	13	20	ND	40	01/31/08	01/31/08	
Ethylbenzene	EPA 8260B	8A31018	10	40	ND	40	01/31/08	01/31/08	
Hexachlorobutadiene	EPA 8260B	8A31018	15	40	ND	40	01/31/08	01/31/08	
2-Hexanone	EPA 8260B	8A31018	100	240	ND	40	01/31/08	01/31/08	
Iodomethane	EPA 8260B	8A31018	40	80	ND	40	01/31/08	01/31/08	
Isopropylbenzene	EPA 8260B	8A31018	10	40	ND	40	01/31/08	01/31/08	
p-Isopropyltoluene	EPA 8260B	8A31018	11	40	ND	40	01/31/08	01/31/08	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	8A31018	13	40	ND	40	01/31/08	01/31/08	
Methylene chloride	EPA 8260B	8A31018	38	40	**70**	40	01/31/08	01/31/08	
4-Methyl-2-pentanone (MIBK)	EPA 8260B	8A31018	140	200	**1600**	40	01/31/08	01/31/08	
n-Propylbenzene	EPA 8260B	8A31018	11	40	ND	40	01/31/08	01/31/08	
Styrene	EPA 8260B	8A31018	6.4	40	ND	40	01/31/08	01/31/08	
1,1,1,2-Tetrachloroethane	EPA 8260B	8A31018	11	40	ND	40	01/31/08	01/31/08	
1,1,2,2-Tetrachloroethane	EPA 8260B	8A31018	9.6	40	ND	40	01/31/08	01/31/08	
Tetrachloroethene	EPA 8260B	8A31018	13	40	ND	40	01/31/08	01/31/08	
Tetrahydrofuran (THF)	EPA 8260B	8A31018	140	400	**160**	40	01/31/08	01/31/08	Ja
Toluene	EPA 8260B	8A31018	14	40	**2700**	40	01/31/08	01/31/08	
1,2,3-Trichlorobenzene	EPA 8260B	8A31018	12	40	ND	40	01/31/08	01/31/08	
1,2,4-Trichlorobenzene	EPA 8260B	8A31018	19	40	ND	40	01/31/08	01/31/08	
1,1,1-Trichloroethane	EPA 8260B	8A31018	12	40	ND	40	01/31/08	01/31/08	
1,1,2-Trichloroethane	EPA 8260B	8A31018	12	40	**39**	40	01/31/08	01/31/08	Ja
Trichloroethene	EPA 8260B	8A31018	10	40	**12**	40	01/31/08	01/31/08	Ja
Trichlorofluoromethane	EPA 8260B	8A31018	14	80	ND	40	01/31/08	01/31/08	
1,2,3-Trichloropropane	EPA 8260B	8A31018	16	40	ND	40	01/31/08	01/31/08	
1,3,5-Trimethylbenzene	EPA 8260B	8A31018	10	40	ND	40	01/31/08	01/31/08	
1,2,4-Trimethylbenzene	EPA 8260B	8A31018	9.2	40	ND	40	01/31/08	01/31/08	
Vinyl acetate	EPA 8260B	8A31018	40	240	ND	40	01/31/08	01/31/08	
Xylenes, Total	EPA 8260B	8A31018	36	40	ND	40	01/31/08	01/31/08	
Surrogate: Dibromofluoromethane (80-120%)					*99 %*				
Surrogate: Toluene-d8 (80-120%)					*103 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)					*91 %*				

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Avocet Environmental Inc.
16 Technology Drive, Suite 154
Irvine, CA 92618
Attention: Michael Rendina

Project ID: Boeing C-6 Torrance
1155.002
Report Number: IRA2754

Sampled: 01/29/08
Received: 01/29/08

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRA2754-07 (AW0073C_WG20080129_01 - Water)									
Reporting Units: ug/l									
4-Methyl-2-pentanone (MIBK)	EPA 8260B	8A31018	350	500	**2900**	100	01/31/08	01/31/08	
Toluene	EPA 8260B	8A31018	36	100	**6900**	100	01/31/08	01/31/08	
Surrogate: Dibromofluoromethane (80-120%)					*99 %*				
Surrogate: Toluene-d8 (80-120%)					*103 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)					*90 %*				
Sample ID: IRA2754-07RE1 (AW0073C_WG20080129_01 - Water)									
Reporting Units: ug/l									
Acetone	EPA 8260B	8B01005	90	200	**110**	20	02/01/08	02/01/08	Ja
Benzene	EPA 8260B	8B01005	5.6	20	**23**	20	02/01/08	02/01/08	
Bromobenzene	EPA 8260B	8B01005	5.4	20	ND	20	02/01/08	02/01/08	
Bromochloromethane	EPA 8260B	8B01005	6.4	20	ND	20	02/01/08	02/01/08	
Bromodichloromethane	EPA 8260B	8B01005	6.0	20	ND	20	02/01/08	02/01/08	
Bromoform	EPA 8260B	8B01005	8.0	20	ND	20	02/01/08	02/01/08	
Bromomethane	EPA 8260B	8B01005	8.4	20	ND	20	02/01/08	02/01/08	
2-Butanone (MEK)	EPA 8260B	8B01005	94	100	ND	20	02/01/08	02/01/08	
tert-Butylbenzene	EPA 8260B	8B01005	4.4	20	ND	20	02/01/08	02/01/08	
n-Butylbenzene	EPA 8260B	8B01005	7.4	20	ND	20	02/01/08	02/01/08	
sec-Butylbenzene	EPA 8260B	8B01005	5.0	20	ND	20	02/01/08	02/01/08	
Carbon Disulfide	EPA 8260B	8B01005	9.6	20	ND	20	02/01/08	02/01/08	
Carbon tetrachloride	EPA 8260B	8B01005	5.6	10	ND	20	02/01/08	02/01/08	
Chlorobenzene	EPA 8260B	8B01005	7.2	20	ND	20	02/01/08	02/01/08	
Chloroethane	EPA 8260B	8B01005	8.0	40	ND	20	02/01/08	02/01/08	
Chloroform	EPA 8260B	8B01005	6.6	20	**6.6**	20	02/01/08	02/01/08	Ja
Chloromethane	EPA 8260B	8B01005	8.0	40	ND	20	02/01/08	02/01/08	
2-Chlorotoluene	EPA 8260B	8B01005	5.6	20	ND	20	02/01/08	02/01/08	
4-Chlorotoluene	EPA 8260B	8B01005	5.8	20	ND	20	02/01/08	02/01/08	
1,2-Dibromo-3-chloropropane	EPA 8260B	8B01005	19	40	ND	20	02/01/08	02/01/08	
Dibromochloromethane	EPA 8260B	8B01005	5.6	20	ND	20	02/01/08	02/01/08	
1,2-Dibromoethane (EDB)	EPA 8260B	8B01005	8.0	20	ND	20	02/01/08	02/01/08	
1,3-Dichlorobenzene	EPA 8260B	8B01005	7.0	20	ND	20	02/01/08	02/01/08	
1,4-Dichlorobenzene	EPA 8260B	8B01005	7.4	20	ND	20	02/01/08	02/01/08	
1,2-Dichlorobenzene	EPA 8260B	8B01005	6.4	20	ND	20	02/01/08	02/01/08	
Dichlorodifluoromethane	EPA 8260B	8B01005	5.2	20	ND	20	02/01/08	02/01/08	
1,1-Dichloroethane	EPA 8260B	8B01005	5.4	20	**96**	20	02/01/08	02/01/08	
1,2-Dichloroethane	EPA 8260B	8B01005	5.6	10	**33**	20	02/01/08	02/01/08	
cis-1,2-Dichloroethene	EPA 8260B	8B01005	6.4	20	**770**	20	02/01/08	02/01/08	
1,1-Dichloroethene	EPA 8260B	8B01005	8.4	20	**2800**	20	02/01/08	02/01/08	
trans-1,2-Dichloroethene	EPA 8260B	8B01005	5.4	20	**54**	20	02/01/08	02/01/08	
2,2-Dichloropropane	EPA 8260B	8B01005	6.8	20	ND	20	02/01/08	02/01/08	
1,2-Dichloropropane	EPA 8260B	8B01005	7.0	20	ND	20	02/01/08	02/01/08	

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BOE-C6-0188207

Avocet Environmental Inc.
16 Technology Drive, Suite 154
Irvine, CA 92618
Attention: Michael Rendina

Project ID: Boeing C-6 Torrance
1155.002
Report Number: IRA2754

Sampled: 01/29/08
Received: 01/29/08

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRA2754-07RE1 (AW0073C_WG20080129_01 - Water) - cont.									
Reporting Units: ug/l									
cis-1,3-Dichloropropene	EPA 8260B	8B01005	4.4	10	ND	20	02/01/08	02/01/08	
1,1-Dichloropropene	EPA 8260B	8B01005	5.6	20	ND	20	02/01/08	02/01/08	
trans-1,3-Dichloropropene	EPA 8260B	8B01005	6.4	10	ND	20	02/01/08	02/01/08	
Ethylbenzene	EPA 8260B	8B01005	5.0	20	**6.0**	20	02/01/08	02/01/08	Ja
Hexachlorobutadiene	EPA 8260B	8B01005	7.6	20	ND	20	02/01/08	02/01/08	
2-Hexanone	EPA 8260B	8B01005	52	120	ND	20	02/01/08	02/01/08	
Iodomethane	EPA 8260B	8B01005	20	40	ND	20	02/01/08	02/01/08	
Isopropylbenzene	EPA 8260B	8B01005	5.0	20	ND	20	02/01/08	02/01/08	
p-Isopropyltoluene	EPA 8260B	8B01005	5.6	20	ND	20	02/01/08	02/01/08	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	8B01005	6.4	20	ND	20	02/01/08	02/01/08	
Methylene chloride	EPA 8260B	8B01005	19	20	ND	20	02/01/08	02/01/08	
n-Propylbenzene	EPA 8260B	8B01005	5.4	20	ND	20	02/01/08	02/01/08	
Styrene	EPA 8260B	8B01005	3.2	20	ND	20	02/01/08	02/01/08	
1,1,1,2-Tetrachloroethane	EPA 8260B	8B01005	5.4	20	ND	20	02/01/08	02/01/08	
1,1,2,2-Tetrachloroethane	EPA 8260B	8B01005	4.8	20	ND	20	02/01/08	02/01/08	
Tetrachloroethene	EPA 8260B	8B01005	6.4	20	ND	20	02/01/08	02/01/08	
Tetrahydrofuran (THF)	EPA 8260B	8B01005	70	200	**470**	20	02/01/08	02/01/08	
1,2,3-Trichlorobenzene	EPA 8260B	8B01005	6.0	20	ND	20	02/01/08	02/01/08	
1,2,4-Trichlorobenzene	EPA 8260B	8B01005	9.6	20	ND	20	02/01/08	02/01/08	
1,1,1-Trichloroethane	EPA 8260B	8B01005	6.0	20	**180**	20	02/01/08	02/01/08	
1,1,2-Trichloroethane	EPA 8260B	8B01005	6.0	20	**16**	20	02/01/08	02/01/08	Ja
Trichloroethene	EPA 8260B	8B01005	5.2	20	**53**	20	02/01/08	02/01/08	
Trichlorofluoromethane	EPA 8260B	8B01005	6.8	40	ND	20	02/01/08	02/01/08	
1,2,3-Trichloropropane	EPA 8260B	8B01005	8.0	20	ND	20	02/01/08	02/01/08	
1,3,5-Trimethylbenzene	EPA 8260B	8B01005	5.2	20	ND	20	02/01/08	02/01/08	
1,2,4-Trimethylbenzene	EPA 8260B	8B01005	4.6	20	ND	20	02/01/08	02/01/08	
Vinyl acetate	EPA 8260B	8B01005	20	120	ND	20	02/01/08	02/01/08	
Vinyl chloride	EPA 8260B	8B01005	6.0	10	**94**	20	02/01/08	02/01/08	
Xylenes, Total	EPA 8260B	8B01005	18	20	**30**	20	02/01/08	02/01/08	
Surrogate: Dibromofluoromethane (80-120%)					*109 %*				
Surrogate: Toluene-d8 (80-120%)					*106 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)					*91 %*				

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Avocet Environmental Inc.
16 Technology Drive, Suite 154
Irvine, CA 92618
Attention: Michael Rendina

Project ID: Boeing C-6 Torrance
1155.002
Report Number: IRA2754

Sampled: 01/29/08
Received: 01/29/08

INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRA2754-03 (AW0074UB_WG20080129_01 - Water)									
Reporting Units: mg/l									
Alkalinity as CaCO3	EPA 310.1	8B05073	2.0	2.0	**250**	1	02/05/08	02/05/08	
Chloride	EPA 300.0	8A29048	12	25	**380**	50	01/29/08	01/29/08	
Nitrate-NO3	EPA 300.0	8A29048	0.25	0.50	**1.4**	1	01/29/08	01/29/08	
Nitrite-NO2	EPA 300.0	8A29048	0.30	0.50	ND	1	01/29/08	01/29/08	
Sulfate	EPA 300.0	8A29048	0.20	0.50	**19**	1	01/29/08	01/29/08	
Total Dissolved Solids	EPA 160.1	8B04088	10	10	**970**	1	02/04/08	02/04/08	
Sample ID: IRA2754-04 (WCC_06S_WG20080129_01 - Water)									
Reporting Units: mg/l									
Alkalinity as CaCO3	EPA 310.1	8B05073	2.0	2.0	**40**	1	02/05/08	02/05/08	
Chloride	EPA 300.0	8A29048	0.25	0.50	**8.3**	1	01/29/08	01/29/08	
Nitrate-NO3	EPA 300.0	8A29048	0.25	0.50	**0.59**	1	01/29/08	01/29/08	
Nitrite-NO2	EPA 300.0	8A29048	0.30	0.50	ND	1	01/29/08	01/29/08	
Sulfate	EPA 300.0	8A29048	0.20	0.50	**4.4**	1	01/29/08	01/29/08	
Total Dissolved Solids	EPA 160.1	8B04088	10	10	**130**	1	02/04/08	02/04/08	
Sample ID: IRA2754-05 (EWB002_WG20080129_01 - Water)									
Reporting Units: mg/l									
Alkalinity as CaCO3	EPA 310.1	8B05073	2.0	2.0	**550**	1	02/05/08	02/05/08	
Chloride	EPA 300.0	8A29048	25	50	**490**	100	01/29/08	01/29/08	
Nitrate-NO3	EPA 300.0	8A29048	0.50	1.0	ND	2	01/29/08	01/29/08	RL1
Nitrite-NO2	EPA 300.0	8A29048	0.60	1.0	ND	2	01/29/08	01/29/08	RL1
Sulfate	EPA 300.0	8A29048	0.40	1.0	**0.48**	2	01/29/08	01/29/08	RL1, Ja
Total Dissolved Solids	EPA 160.1	8B04088	10	10	**1700**	1	02/04/08	02/04/08	
Sample ID: IRA2754-07 (AW0073C_WG20080129_01 - Water)									
Reporting Units: mg/l									
Alkalinity as CaCO3	EPA 310.1	8B05073	2.0	2.0	**240**	1	02/05/08	02/05/08	
Chloride	EPA 300.0	8A29048	12	25	**130**	50	01/29/08	01/29/08	
Nitrate-NO3	EPA 300.0	8A29048	0.25	0.50	**0.32**	1	01/29/08	01/29/08	Ja
Nitrite-NO2	EPA 300.0	8A29048	0.30	0.50	ND	1	01/29/08	01/29/08	
Sulfate	EPA 300.0	8A29048	0.20	0.50	**9.1**	1	01/29/08	01/29/08	
Total Dissolved Solids	EPA 160.1	8B04088	10	10	**500**	1	02/04/08	02/04/08	

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BOE-C6-0188208

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Avocet Environmental Inc.
16 Technology Drive, Suite 154
Irvine, CA 92618
Attention: Michael Rendina

Project ID: Boeing C-6 Torrance
1155.002
Report Number: IRA2754

Sampled: 01/29/08
Received: 01/29/08

TOTAL ORGANIC CARBON (EPA 9060A MOD.)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRA2754-03 (AW0074UB_WG20080129_01 - Water)									
Reporting Units: mg/l									
Total Organic Carbon	EPA 9060A MOD.	8B08076	0.50	1.0	**1.6**	1	02/08/08	02/08/08	
Sample ID: IRA2754-04 (WCC_06S_WG20080129_01 - Water)									
Reporting Units: mg/l									
Total Organic Carbon	EPA 9060A MOD.	8B08076	0.50	1.0	**1.4**	1	02/08/08	02/08/08	
Sample ID: IRA2754-05 (EWB002_WG20080129_01 - Water)									
Reporting Units: mg/l									
Total Organic Carbon	EPA 9060A MOD.	8B08076	5.0	10	**150**	10	02/08/08	02/08/08	
Sample ID: IRA2754-07 (AW0073C_WG20080129_01 - Water)									
Reporting Units: mg/l									
Total Organic Carbon	EPA 9060A MOD.	8B08076	0.50	1.0	**16**	1	02/08/08	02/08/08	

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Avocet Environmental Inc.
16 Technology Drive, Suite 154
Irvine, CA 92618
Attention: Michael Rendina

Project ID: Boeing C-6 Torrance
1155.002
Report Number: IRA2754

Sampled: 01/29/08
Received: 01/29/08

Volatile Fatty Acids

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRA2754-03 (AW0074UB_WG20080129_01 - Water)									
Reporting Units: mg/L									
Acetic Acid	AM23G	M080212014	N/A	0.07	**0.06**	1	02/11/08	02/11/08	J
Butyric Acid	AM23G	M080212014	N/A	0.07	**0.07**	1	02/11/08	02/11/08	U
Pentanoic Acid	AM23G	M080212014	N/A	0.07	**0.07**	1	02/11/08	02/11/08	U
Hexanoic Acid	AM23G	M080212014	N/A	0.1	**0.1**	1	02/11/08	02/11/08	U
Propionic Acid	AM23G	M080212014	N/A	0.07	**0.07**	1	02/11/08	02/11/08	U
i-Hexanoic Acid	AM23G	M080212014	N/A	0.1	**0.1**	1	02/11/08	02/11/08	U
Pyruvic Acid	AM23G	M080212014	N/A	0.07	**0.07**	1	02/11/08	02/11/08	UM
i-Pentanoic Acid	AM23G	M080212014	N/A	0.07	**0.07**	1	02/11/08	02/11/08	U
Lactic Acid and HIBA	AM23G	M080212014	N/A	0.1	**0.22**	1	02/11/08	02/11/08	M
Sample ID: IRA2754-04 (WCC_06S_WG20080129_01 - Water)									
Reporting Units: mg/L									
Acetic Acid	AM23G	M080212014	N/A	0.07	**0.07**	1	02/08/08	02/08/08	U
Butyric Acid	AM23G	M080212014	N/A	0.07	**0.07**	1	02/08/08	02/08/08	U
Pentanoic Acid	AM23G	M080212014	N/A	0.07	**0.07**	1	02/08/08	02/08/08	U
Hexanoic Acid	AM23G	M080212014	N/A	0.1	**0.1**	1	02/08/08	02/08/08	U
Propionic Acid	AM23G	M080212014	N/A	0.07	**0.07**	1	02/08/08	02/08/08	U
i-Hexanoic Acid	AM23G	M080212014	N/A	0.1	**0.1**	1	02/08/08	02/08/08	U
Pyruvic Acid	AM23G	M080212014	N/A	0.07	**0.07**	1	02/08/08	02/08/08	UM
i-Pentanoic Acid	AM23G	M080212014	N/A	0.07	**0.07**	1	02/08/08	02/08/08	U
Lactic Acid and HIBA	AM23G	M080212014	N/A	0.1	**0.1**	1	02/08/08	02/08/08	UM
Sample ID: IRA2754-05 (EWB002_WG20080129_01 - Water)									
Reporting Units: mg/L									
Acetic Acid	AM23G	M080212015	N/A	0.7	**93**	10	02/12/08	02/12/08	
i-Pentanoic Acid	AM23G	M080212015	N/A	0.7	**1.6**	10	02/12/08	02/12/08	
Lactic Acid and HIBA	AM23G	M080212015	N/A	1	**1**	10	02/12/08	02/12/08	U
Pentanoic Acid	AM23G	M080212014	N/A	0.07	**0.79**	1	02/08/08	02/08/08	
Propionic Acid	AM23G	M080212015	N/A	0.7	**23**	10	02/12/08	02/12/08	
Butyric Acid	AM23G	M080212015	N/A	0.7	**31**	10	02/12/08	02/12/08	
Hexanoic Acid	AM23G	M080212014	N/A	0.1	**0.38**	1	02/08/08	02/08/08	
i-Hexanoic Acid	AM23G	M080212014	N/A	0.1	**0.1**	1	02/08/08	02/08/08	U
Pyruvic Acid	AM23G	M080212014	N/A	0.07	**1.9**	1	02/08/08	02/08/08	M

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BOE-C6-0188209

Avocet Environmental Inc.
16 Technology Drive, Suite 154
Irvine, CA 92618
Attention: Michael Rendina

Project ID: Boeing C-6 Torrance
1155.002
Report Number: IRA2754

Sampled: 01/29/08
Received: 01/29/08

Volatile Fatty Acids

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRA2754-07 (AW0073C_WG20080129_01 - Water)									
Reporting Units: mg/L									
Acetic Acid	AM23G	M080212015	N/A	0.7	**15**	10	02/12/08	02/12/08	
Butyric Acid	AM23G	M080212014	N/A	0.07	**0.16**	1	02/08/08	02/08/08	
Lactic Acid and HIBA	AM23G	M080212015	N/A	1	**1**	10	02/12/08	02/12/08	U
Pentanoic Acid	AM23G	M080212014	N/A	0.07	**0.07**	1	02/08/08	02/08/08	U
Hexanoic Acid	AM23G	M080212014	N/A	0.1	**0.1**	1	02/08/08	02/08/08	U
Propionic Acid	AM23G	M080212014	N/A	0.07	**1.5**	1	02/08/08	02/08/08	
i-Hexanoic Acid	AM23G	M080212014	N/A	0.1	**0.1**	1	02/08/08	02/08/08	U
Pyruvic Acid	AM23G	M080212014	N/A	0.07	**0.58**	1	02/08/08	02/08/08	M
i-Pentanoic Acid	AM23G	M080212014	N/A	0.07	**0.07**	1	02/08/08	02/08/08	U

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THE LEADER IN ENVIRONMENTAL TESTING
17461 Derian Avenue. Suite 100, Irvine, CA 92614 (949) 261-1022 Fax:(949) 260-3297

Avocet Environmental Inc.
16 Technology Drive, Suite 154
Irvine, CA 92618
Attention: Michael Rendina

Project ID: Boeing C-6 Torrance
1155.002
Report Number: IRA2754

Sampled: 01/29/08
Received: 01/29/08

PCR

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRA2754-03 (AW0074UB_WG20080129_01 - Water)									
Reporting Units: NONE									
16s rRNA	PCR	1	N/A	NA	+	1	01/30/08	02/04/08	
Sample ID: IRA2754-04 (WCC_06S_WG20080129_01 - Water)									
Reporting Units: NONE									
16s rRNA	PCR	1	N/A	NA	+	1	01/30/08	02/04/08	
Sample ID: IRA2754-05 (EWB002_WG20080129_01 - Water)									
Reporting Units: NONE									
16s rRNA	PCR	1	N/A	NA	+	1	01/30/08	02/04/08	
Sample ID: IRA2754-07 (AW0073C_WG20080129_01 - Water)									
Reporting Units: NONE									
16s rRNA	PCR	1	N/A	NA	+	1	01/30/08	02/04/08	

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BOE-C6-0188210

Avocet Environmental Inc.
16 Technology Drive, Suite 154
Irvine, CA 92618
Attention: Michael Rendina

Project ID: Boeing C-6 Torrance
1155.002
Report Number: IRA2754

Sampled: 01/29/08
Received: 01/29/08

qPCR TaqMan assay

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRA2754-03 (AW0074UB_WG20080129_01 - Water)									
Reporting Units: gene copies/L ground									
16s rRNA DHC sp.	qPCR TaqMan assay	1	N/A	50	**9.46E+02**	1	01/30/08	02/08/08	
bvcA	qPCR TaqMan assay	1	N/A	50	**1.7E+03**	1	01/30/08	02/13/08	
tceA	qPCR TaqMan assay	1	N/A	50	ND	1	01/30/08	02/04/08	
vcrA	qPCR TaqMan assay	1	N/A	50	ND	1	01/30/08	02/04/08	
Sample ID: IRA2754-04 (WCC_06S_WG20080129_01 - Water)									
Reporting Units: gene copies/L ground									
16s rRNA DHC sp.	qPCR TaqMan assay	1	N/A	50	**9.27E+04**	1	01/30/08	02/08/08	
bvcA	qPCR TaqMan assay	1	N/A	50	**5.6E+04**	1	01/30/08	02/13/08	
tceA	qPCR TaqMan assay	1	N/A	50	ND	1	01/30/08	02/04/08	
vcrA	qPCR TaqMan assay	1	N/A	50	ND	1	01/30/08	02/04/08	
Sample ID: IRA2754-05 (EWB002_WG20080129_01 - Water)									
Reporting Units: gene copies/L ground									
16s rRNA DHC sp.	qPCR TaqMan assay	1	N/A	50	**4.14E+09**	1	01/30/08	02/08/08	
bvcA	qPCR TaqMan assay	1	N/A	50	**2.5E+08**	1	01/30/08	02/13/08	
tceA	qPCR TaqMan assay	1	N/A	50	**5.14E+09**	1	01/30/08	02/04/08	
vcrA	qPCR TaqMan assay	1	N/A	50	ND	1	01/30/08	02/04/08	
Sample ID: IRA2754-07 (AW0073C_WG20080129_01 - Water)									
Reporting Units: gene copies/L ground									
16s rRNA DHC sp.	qPCR TaqMan assay	1	N/A	50	**5.58E+07**	1	01/30/08	02/08/08	
bvcA	qPCR TaqMan assay	1	N/A	50	**5.2E+07**	1	01/30/08	02/13/08	
tceA	qPCR TaqMan assay	1	N/A	50	ND	1	01/30/08	02/04/08	
vcrA	qPCR TaqMan assay	1	N/A	50	ND	1	01/30/08	02/04/08	

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Avocet Environmental Inc.
16 Technology Drive, Suite 154
Irvine, CA 92618
Attention: Michael Rendina

Project ID: Boeing C-6 Torrance
1155.002
Report Number: IRA2754

Sampled: 01/29/08
Received: 01/29/08

RSK175 Dissolved Gases in Water

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRA2754-03 (AW0074UB_WG20080129_01 - Water)									
Reporting Units: ug/L									
Methane	RSK-175	080131GC8A	0.39	1.0	**12**	1	01/31/08	01/31/08	
Ethane	RSK-175	080131GC8A	0.50	2.0	ND	1	01/31/08	01/31/08	
Ethylene	RSK-175	080131GC8A	0.33	3.0	ND	1	01/31/08	01/31/08	
Sample ID: IRA2754-04 (WCC_06S_WG20080129_01 - Water)									
Reporting Units: ug/L									
Methane	RSK-175	080131GC8A	0.39	1.0	ND	1	01/31/08	01/31/08	
Ethane	RSK-175	080131GC8A	0.50	2.0	ND	1	01/31/08	01/31/08	
Ethylene	RSK-175	080131GC8A	0.33	3.0	ND	1	01/31/08	01/31/08	
Sample ID: IRA2754-05 (EWB002_WG20080129_01 - Water)									
Reporting Units: ug/L									
Methane	RSK-175	080131GC8A	0.39	1.0	**570**	1	01/31/08	01/31/08	
Ethane	RSK-175	080131GC8A	0.50	2.0	ND	1	01/31/08	01/31/08	
Ethylene	RSK-175	080131GC8A	0.33	3.0	**7.5**	1	01/31/08	01/31/08	
Sample ID: IRA2754-07 (AW0073C_WG20080129_01 - Water)									
Reporting Units: ug/L									
Methane	RSK-175	080131GC8A	0.39	1.0	**140**	1	01/31/08	01/31/08	
Ethane	RSK-175	080131GC8A	0.50	2.0	ND	1	01/31/08	01/31/08	
Ethylene	RSK-175	080131GC8A	0.33	3.0	ND	1	01/31/08	01/31/08	

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BOE-C6-0188211

Avocet Environmental Inc.
16 Technology Drive, Suite 154
Irvine, CA 92618
Attention: Michael Rendina

Project ID: Boeing C-6 Torrance
1155.002
Report Number: IRA2754

Sampled: 01/29/08
Received: 01/29/08

SHORT HOLD TIME DETAIL REPORT

	Hold Time (in days)	Date/Time Sampled	Date/Time Received	Date/Time Extracted	Date/Time Analyzed
Sample ID: AW0074UB_WG20080129_01 (IRA2754-03) - Water					
EPA 300.0	2	01/29/2008 10:17	01/29/2008 15:42	01/29/2008 16:00	01/29/2008 17:17
Sample ID: WCC_06S_WG20080129_01 (IRA2754-04) - Water					
EPA 300.0	2	01/29/2008 08:51	01/29/2008 15:42	01/29/2008 16:00	01/29/2008 17:31
Sample ID: EWB002_WG20080129_01 (IRA2754-05) - Water					
EPA 300.0	2	01/29/2008 13:07	01/29/2008 15:42	01/29/2008 16:00	01/29/2008 17:44
Sample ID: AW0073C_WG20080129_01 (IRA2754-07) - Water					
EPA 300.0	2	01/29/2008 11:53	01/29/2008 15:42	01/29/2008 16:00	01/29/2008 17:58

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Avocet Environmental Inc.
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Project ID: Boeing C-6 Torrance
1155.002
Report Number: IRA2754

Sampled: 01/29/08
Received: 01/29/08

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8A31018 Extracted: 01/31/08											
Blank Analyzed: 01/31/2008 (8A31018-BLK1)											
Acetone	ND	10	4.5	ug/l							
Benzene	ND	1.0	0.28	ug/l							
Bromobenzene	ND	1.0	0.27	ug/l							
Bromochloromethane	ND	1.0	0.32	ug/l							
Bromodichloromethane	ND	1.0	0.30	ug/l							
Bromoform	ND	1.0	0.40	ug/l							
Bromomethane	ND	1.0	0.42	ug/l							
2-Butanone (MEK)	ND	5.0	4.7	ug/l							
tert-Butylbenzene	ND	1.0	0.22	ug/l							
n-Butylbenzene	ND	1.0	0.37	ug/l							
sec-Butylbenzene	ND	1.0	0.25	ug/l							
Carbon Disulfide	ND	1.0	0.48	ug/l							
Carbon tetrachloride	ND	0.50	0.28	ug/l							
Chlorobenzene	ND	1.0	0.36	ug/l							
Chloroethane	ND	2.0	0.40	ug/l							
Chloroform	ND	1.0	0.33	ug/l							
Chloromethane	ND	2.0	0.40	ug/l							
2-Chlorotoluene	ND	1.0	0.28	ug/l							
4-Chlorotoluene	ND	1.0	0.29	ug/l							
1,2-Dibromo-3-chloropropane	ND	2.0	0.97	ug/l							
Dibromochloromethane	ND	1.0	0.28	ug/l							
1,2-Dibromoethane (EDB)	ND	1.0	0.40	ug/l							
1,3-Dichlorobenzene	ND	1.0	0.35	ug/l							
1,4-Dichlorobenzene	ND	1.0	0.37	ug/l							
1,2-Dichlorobenzene	ND	1.0	0.32	ug/l							
Dichlorodifluoromethane	ND	1.0	0.26	ug/l							
1,1-Dichloroethane	ND	1.0	0.27	ug/l							
1,2-Dichloroethane	ND	0.50	0.28	ug/l							
cis-1,2-Dichloroethene	ND	1.0	0.32	ug/l							
1,1-Dichloroethene	ND	1.0	0.42	ug/l							
trans-1,2-Dichloroethene	ND	1.0	0.27	ug/l							
2,2-Dichloropropane	ND	1.0	0.34	ug/l							
1,2-Dichloropropane	ND	1.0	0.35	ug/l							
cis-1,3-Dichloropropene	ND	0.50	0.22	ug/l							
1,1-Dichloropropene	ND	1.0	0.28	ug/l							

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BOE-C6-0188212

Avocet Environmental Inc.
16 Technology Drive, Suite 154
Irvine, CA 92618
Attention: Michael Rendina

Project ID: Boeing C-6 Torrance
1155.002
Report Number: IRA2754

Sampled: 01/29/08
Received: 01/29/08

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8A31018 Extracted: 01/31/08											
Blank Analyzed: 01/31/2008 (8A31018-BLK1)											
trans-1,3-Dichloropropene	ND	0.50	0.32	ug/l							
Ethylbenzene	ND	1.0	0.25	ug/l							
Hexachlorobutadiene	ND	1.0	0.38	ug/l							
2-Hexanone	ND	6.0	2.6	ug/l							
Iodomethane	ND	2.0	1.0	ug/l							
Isopropylbenzene	ND	1.0	0.25	ug/l							
p-Isopropyltoluene	ND	1.0	0.28	ug/l							
Methyl-tert-butyl Ether (MTBE)	ND	1.0	0.32	ug/l							
Methylene chloride	ND	1.0	0.95	ug/l							
4-Methyl-2-pentanone (MIBK)	ND	5.0	3.5	ug/l							
n-Propylbenzene	ND	1.0	0.27	ug/l							
Styrene	ND	1.0	0.16	ug/l							
1,1,1,2-Tetrachloroethane	ND	1.0	0.27	ug/l							
1,1,2,2-Tetrachloroethane	ND	1.0	0.24	ug/l							
Tetrachloroethene	ND	1.0	0.32	ug/l							
Tetrahydrofuran (THF)	3.84	10	3.5	ug/l							*Ja*
Toluene	ND	1.0	0.36	ug/l							
1,2,3-Trichlorobenzene	ND	1.0	0.30	ug/l							
1,2,4-Trichlorobenzene	ND	1.0	0.48	ug/l							
1,1,1-Trichloroethane	ND	1.0	0.30	ug/l							
1,1,2-Trichloroethane	ND	1.0	0.30	ug/l							
Trichloroethene	ND	1.0	0.26	ug/l							
Trichlorofluoromethane	ND	2.0	0.34	ug/l							
1,2,3-Trichloropropane	ND	1.0	0.40	ug/l							
1,3,5-Trimethylbenzene	ND	1.0	0.26	ug/l							
1,2,4-Trimethylbenzene	ND	1.0	0.23	ug/l							
Vinyl acetate	ND	6.0	1.0	ug/l							
Vinyl chloride	ND	0.50	0.30	ug/l							
Xylenes, Total	ND	1.0	0.90	ug/l							
Surrogate: Dibromofluoromethane	*24.9*			*ug/l*	*25.0*		*100*	*80-120*			
Surrogate: Toluene-d8	*25.1*			*ug/l*	*25.0*		*100*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*22.8*			*ug/l*	*25.0*		*91*	*80-120*			

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Avocet Environmental Inc.
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Attention: Michael Rendina

Project ID: Boeing C-6 Torrance
1155.002
Report Number: IRA2754

Sampled: 01/29/08
Received: 01/29/08

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8A31018 Extracted: 01/31/08											
LCS Analyzed: 01/31/2008 (8A31018-BS1)											
Acetone	17.1	10	4.5	ug/l	25.0		69	30-140			
Benzene	24.5	1.0	0.28	ug/l	25.0		98	70-120			
Bromobenzene	23.8	1.0	0.27	ug/l	25.0		95	75-120			
Bromochloromethane	24.9	1.0	0.32	ug/l	25.0		99	70-130			
Bromodichloromethane	26.6	1.0	0.30	ug/l	25.0		106	70-135			
Bromoform	22.0	1.0	0.40	ug/l	25.0		88	55-130			
Bromomethane	29.1	1.0	0.42	ug/l	25.0		116	65-140			
2-Butanone (MEK)	19.9	5.0	4.7	ug/l	25.0		80	40-140			
tert-Butylbenzene	24.1	1.0	0.22	ug/l	25.0		96	70-125			
n-Butylbenzene	25.9	1.0	0.37	ug/l	25.0		103	70-130			
sec-Butylbenzene	25.1	1.0	0.25	ug/l	25.0		100	70-125			
Carbon Disulfide	26.6	1.0	0.48	ug/l	25.0		106	50-130			
Carbon tetrachloride	25.1	0.50	0.28	ug/l	25.0		100	65-140			
Chlorobenzene	24.9	1.0	0.36	ug/l	25.0		100	75-120			
Chloroethane	29.7	2.0	0.40	ug/l	25.0		119	60-140			
Chloroform	26.2	1.0	0.33	ug/l	25.0		105	70-130			
Chloromethane	45.8	2.0	0.40	ug/l	25.0		183	50-140			*L*
2-Chlorotoluene	24.6	1.0	0.28	ug/l	25.0		98	70-125			
4-Chlorotoluene	24.9	1.0	0.29	ug/l	25.0		100	75-125			
1,2-Dibromo-3-chloropropane	24.3	2.0	0.97	ug/l	25.0		97	50-135			
Dibromochloromethane	28.5	1.0	0.28	ug/l	25.0		114	70-140			
1,2-Dibromoethane (EDB)	25.8	1.0	0.40	ug/l	25.0		103	75-125			
1,3-Dichlorobenzene	24.7	1.0	0.35	ug/l	25.0		99	75-120			
1,4-Dichlorobenzene	23.6	1.0	0.37	ug/l	25.0		94	75-120			
1,2-Dichlorobenzene	24.4	1.0	0.32	ug/l	25.0		98	75-120			
Dichlorodifluoromethane	70.8	1.0	0.26	ug/l	25.0		283	35-155			*L*
1,1-Dichloroethane	25.7	1.0	0.27	ug/l	25.0		103	70-125			
1,2-Dichloroethane	26.6	0.50	0.28	ug/l	25.0		106	60-140			
cis-1,2-Dichloroethene	25.7	1.0	0.32	ug/l	25.0		103	70-125			
1,1-Dichloroethene	22.8	1.0	0.42	ug/l	25.0		91	70-125			
trans-1,2-Dichloroethene	26.3	1.0	0.27	ug/l	25.0		105	70-125			
2,2-Dichloropropane	27.9	1.0	0.34	ug/l	25.0		112	65-140			
1,2-Dichloropropane	26.0	1.0	0.35	ug/l	25.0		104	70-125			
cis-1,3-Dichloropropene	23.1	0.50	0.22	ug/l	25.0		92	75-125			
1,1-Dichloropropene	26.1	1.0	0.28	ug/l	25.0		105	75-130			

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BOE-C6-0188213

Avocet Environmental Inc.
16 Technology Drive, Suite 154
Irvine, CA 92618
Attention: Michael Rendina

Project ID: Boeing C-6 Torrance
1155.002
Report Number: IRA2754

Sampled: 01/29/08
Received: 01/29/08

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8A31018 Extracted: 01/31/08											
LCS Analyzed: 01/31/2008 (8A31018-BS1)											
trans-1,3-Dichloropropene	23.7	0.50	0.32	ug/l	25.0		95	70-125			
Ethylbenzene	26.9	1.0	0.25	ug/l	25.0		108	75-125			
Hexachlorobutadiene	21.9	1.0	0.38	ug/l	25.0		88	65-135			
2-Hexanone	21.0	6.0	2.6	ug/l	25.0		84	45-140			
Isopropylbenzene	27.6	1.0	0.25	ug/l	25.0		110	75-130			
p-Isopropyltoluene	25.0	1.0	0.28	ug/l	25.0		100	75-125			
Methyl-tert-butyl Ether (MTBE)	25.8	1.0	0.32	ug/l	25.0		103	60-135			
Methylene chloride	24.9	1.0	0.95	ug/l	25.0		100	55-130			
4-Methyl-2-pentanone (MIBK)	22.1	5.0	3.5	ug/l	25.0		89	45-140			
n-Propylbenzene	26.0	1.0	0.27	ug/l	25.0		104	75-130			
Styrene	26.6	1.0	0.16	ug/l	25.0		107	75-130			
1,1,1,2-Tetrachloroethane	25.7	1.0	0.27	ug/l	25.0		103	70-130			
1,1,2,2-Tetrachloroethane	26.4	1.0	0.24	ug/l	25.0		106	55-130			
Tetrachloroethene	24.1	1.0	0.32	ug/l	25.0		96	70-125			
Toluene	25.5	1.0	0.36	ug/l	25.0		102	70-120			
1,2,3-Trichlorobenzene	21.6	1.0	0.30	ug/l	25.0		86	65-125			
1,2,4-Trichlorobenzene	24.3	1.0	0.48	ug/l	25.0		97	70-135			
1,1,1-Trichloroethane	25.4	1.0	0.30	ug/l	25.0		102	65-135			
1,1,2-Trichloroethane	25.7	1.0	0.30	ug/l	25.0		103	70-125			
Trichloroethene	24.5	1.0	0.26	ug/l	25.0		98	70-125			
Trichlorofluoromethane	30.3	2.0	0.34	ug/l	25.0		121	65-145			
1,2,3-Trichloropropane	25.2	1.0	0.40	ug/l	25.0		101	60-130			
1,3,5-Trimethylbenzene	25.0	1.0	0.26	ug/l	25.0		100	75-125			
1,2,4-Trimethylbenzene	24.9	1.0	0.23	ug/l	25.0		100	75-125			
Vinyl acetate	28.9	6.0	1.0	ug/l	25.0		116	45-145			
Vinyl chloride	35.5	0.50	0.30	ug/l	25.0		142	55-135			*L*
Surrogate: Dibromofluoromethane	*25.0*			*ug/l*	*25.0*		*100*	*80-120*			
Surrogate: Toluene-d8	*25.3*			*ug/l*	*25.0*		*101*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*25.2*			*ug/l*	*25.0*		*101*	*80-120*			

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17461 Derian Avenue. Suite 100, Irvine, CA 92614 (949) 261-1022 Fax:(949) 260-3297

Avocet Environmental Inc.
16 Technology Drive, Suite 154
Irvine, CA 92618
Attention: Michael Rendina

Project ID: Boeing C-6 Torrance
1155.002
Report Number: IRA2754

Sampled: 01/29/08
Received: 01/29/08

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8A31018 Extracted: 01/31/08											
Matrix Spike Analyzed: 01/31/2008 (8A31018-MS1)						**Source: IRA2754-04**					
Acetone	19.4	10	4.5	ug/l	25.0	ND	78	20-150			
Benzene	26.0	1.0	0.28	ug/l	25.0	ND	104	65-125			
Bromobenzene	25.4	1.0	0.27	ug/l	25.0	ND	102	70-125			
Bromochloromethane	26.1	1.0	0.32	ug/l	25.0	ND	104	65-135			
Bromodichloromethane	28.5	1.0	0.30	ug/l	25.0	ND	114	70-135			
Bromoform	23.3	1.0	0.40	ug/l	25.0	ND	93	55-135			
Bromomethane	31.5	1.0	0.42	ug/l	25.0	ND	126	55-145			
2-Butanone (MEK)	20.4	5.0	4.7	ug/l	25.0	ND	82	30-145			
tert-Butylbenzene	25.6	1.0	0.22	ug/l	25.0	ND	102	65-130			
n-Butylbenzene	26.8	1.0	0.37	ug/l	25.0	ND	107	65-135			
sec-Butylbenzene	26.4	1.0	0.25	ug/l	25.0	ND	106	70-125			
Carbon Disulfide	28.4	1.0	0.48	ug/l	25.0	ND	114	40-140			
Carbon tetrachloride	26.2	0.50	0.28	ug/l	25.0	ND	105	65-140			
Chlorobenzene	26.1	1.0	0.36	ug/l	25.0	ND	104	75-125			
Chloroethane	31.9	2.0	0.40	ug/l	25.0	ND	128	55-140			
Chloroform	28.0	1.0	0.33	ug/l	25.0	ND	112	65-135			
Chloromethane	49.8	2.0	0.40	ug/l	25.0	ND	199	45-145			*M7*
2-Chlorotoluene	26.2	1.0	0.28	ug/l	25.0	ND	105	65-135			
4-Chlorotoluene	26.4	1.0	0.29	ug/l	25.0	ND	105	70-135			
1,2-Dibromo-3-chloropropane	27.2	2.0	0.97	ug/l	25.0	ND	109	45-145			
Dibromochloromethane	30.0	1.0	0.28	ug/l	25.0	ND	120	65-140			
1,2-Dibromoethane (EDB)	27.4	1.0	0.40	ug/l	25.0	ND	109	70-130			
1,3-Dichlorobenzene	26.3	1.0	0.35	ug/l	25.0	ND	105	75-125			
1,4-Dichlorobenzene	24.8	1.0	0.37	ug/l	25.0	ND	99	75-125			
1,2-Dichlorobenzene	25.8	1.0	0.32	ug/l	25.0	ND	103	75-125			
Dichlorodifluoromethane	74.7	1.0	0.26	ug/l	25.0	ND	299	25-155			*M7*
1,1-Dichloroethane	27.9	1.0	0.27	ug/l	25.0	ND	111	65-130			
1,2-Dichloroethane	28.4	0.50	0.28	ug/l	25.0	ND	114	60-140			
cis-1,2-Dichloroethene	28.4	1.0	0.32	ug/l	25.0	1.20	109	65-130			
1,1-Dichloroethene	45.3	1.0	0.42	ug/l	25.0	20.6	99	60-130			
trans-1,2-Dichloroethene	28.8	1.0	0.27	ug/l	25.0	ND	115	65-130			
2,2-Dichloropropane	28.6	1.0	0.34	ug/l	25.0	ND	115	60-145			
1,2-Dichloropropane	27.3	1.0	0.35	ug/l	25.0	ND	109	65-130			
cis-1,3-Dichloropropene	24.1	0.50	0.22	ug/l	25.0	ND	96	70-130			
1,1-Dichloropropene	27.1	1.0	0.28	ug/l	25.0	ND	108	70-135			

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Trupti Mistry
Project Manager

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BOE-C6-0188214

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Project ID: Boeing C-6 Torrance
1155.002
Report Number: IRA2754

Sampled: 01/29/08
Received: 01/29/08

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8A31018 Extracted: 01/31/08											
Matrix Spike Analyzed: 01/31/2008 (8A31018-MS1)						**Source: IRA2754-04**					
trans-1,3-Dichloropropene	24.6	0.50	0.32	ug/l	25.0	ND	98	65-135			
Ethylbenzene	27.9	1.0	0.25	ug/l	25.0	ND	112	65-130			
Hexachlorobutadiene	22.0	1.0	0.38	ug/l	25.0	ND	88	60-135			
2-Hexanone	22.0	6.0	2.6	ug/l	25.0	ND	88	25-140			
Isopropylbenzene	29.4	1.0	0.25	ug/l	25.0	ND	118	70-135			
p-Isopropyltoluene	26.2	1.0	0.28	ug/l	25.0	ND	105	65-130			
Methyl-tert-butyl Ether (MTBE)	27.8	1.0	0.32	ug/l	25.0	ND	111	55-145			
Methylene chloride	26.7	1.0	0.95	ug/l	25.0	ND	107	50-135			
4-Methyl-2-pentanone (MIBK)	24.1	5.0	3.5	ug/l	25.0	ND	96	*40-140			
n-Propylbenzene	27.7	1.0	0.27	ug/l	25.0	ND	111	70-135			
Styrene	25.7	1.0	0.16	ug/l	25.0	ND	103	50-145			
1,1,1,2-Tetrachloroethane	26.4	1.0	0.27	ug/l	25.0	ND	106	65-140			
1,1,2,2-Tetrachloroethane	28.6	1.0	0.24	ug/l	25.0	ND	115	55-135			
Tetrachloroethene	24.9	1.0	0.32	ug/l	25.0	ND	100	65-130			
Toluene	27.0	1.0	0.36	ug/l	25.0	ND	108	70-125			
1,2,3-Trichlorobenzene	22.2	1.0	0.30	ug/l	25.0	ND	89	60-135			
1,2,4-Trichlorobenzene	24.2	1.0	0.48	ug/l	25.0	ND	97	65-135			
1,1,1-Trichloroethane	27.1	1.0	0.30	ug/l	25.0	ND	108	65-140			
1,1,2-Trichloroethane	26.8	1.0	0.30	ug/l	25.0	ND	107	65-130			
Trichloroethene	48.3	1.0	0.26	ug/l	25.0	21.7	106	65-125			
Trichlorofluoromethane	32.2	2.0	0.34	ug/l	25.0	ND	129	60-145			
1,2,3-Trichloropropane	27.9	1.0	0.40	ug/l	25.0	ND	112	55-135			
1,3,5-Trimethylbenzene	25.3	1.0	0.26	ug/l	25.0	ND	101	70-130			
1,2,4-Trimethylbenzene	24.8	1.0	0.23	ug/l	25.0	ND	99	55-135			
Vinyl acetate	28.6	6.0	1.0	ug/l	25.0	ND	115	40-150			
Vinyl chloride	38.3	0.50	0.30	ug/l	25.0	0.510	151	45-140			*M7*
Surrogate: Dibromofluoromethane	*25.3*			*ug/l*	*25.0*		*101*	*80-120*			
Surrogate: Toluene-d8	*25.5*			*ug/l*	*25.0*		*102*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*25.2*			*ug/l*	*25.0*		*101*	*80-120*			

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Project ID: Boeing C-6 Torrance
1155.002
Report Number: IRA2754

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Received: 01/29/08

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8A31018 Extracted: 01/31/08											
Matrix Spike Dup Analyzed: 01/31/2008 (8A31018-MSD1)						**Source: IRA2754-04**					
Acetone	21.3	10	4.5	ug/l	25.0	ND	85	20-150	9	35	
Benzene	25.8	1.0	0.28	ug/l	25.0	ND	103	65-125	1	20	
Bromobenzene	25.7	1.0	0.27	ug/l	25.0	ND	103	70-125	1	20	
Bromochloromethane	26.4	1.0	0.32	ug/l	25.0	ND	106	65-135	1	25	
Bromodichloromethane	28.4	1.0	0.30	ug/l	25.0	ND	114	70-135	0	20	
Bromoform	23.4	1.0	0.40	ug/l	25.0	ND	94	55-135	1	25	
Bromomethane	31.9	1.0	0.42	ug/l	25.0	ND	128	55-145	1	25	
2-Butanone (MEK)	22.7	5.0	4.7	ug/l	25.0	ND	91	30-145	10	40	
tert-Butylbenzene	25.5	1.0	0.22	ug/l	25.0	ND	102	65-130	1	20	
n-Butylbenzene	26.8	1.0	0.37	ug/l	25.0	ND	107	65-135	0	20	
sec-Butylbenzene	26.3	1.0	0.25	ug/l	25.0	ND	105	70-125	1	20	
Carbon Disulfide	28.4	1.0	0.48	ug/l	25.0	ND	114	40-140	0	20	
Carbon tetrachloride	26.2	0.50	0.28	ug/l	25.0	ND	105	65-140	0	25	
Chlorobenzene	25.8	1.0	0.36	ug/l	25.0	ND	103	75-125	1	20	
Chloroethane	31.9	2.0	0.40	ug/l	25.0	ND	128	55-140	0	25	
Chloroform	27.6	1.0	0.33	ug/l	25.0	ND	110	65-135	2	20	
Chloromethane	46.5	2.0	0.40	ug/l	25.0	ND	186	45-145	7	25	*M7*
2-Chlorotoluene	26.4	1.0	0.28	ug/l	25.0	ND	106	65-135	1	20	
4-Chlorotoluene	26.5	1.0	0.29	ug/l	25.0	ND	106	70-135	0	20	
1,2-Dibromo-3-chloropropane	29.0	2.0	0.97	ug/l	25.0	ND	116	45-145	6	30	
Dibromochloromethane	30.1	1.0	0.28	ug/l	25.0	ND	120	65-140	0	25	
1,2-Dibromoethane (EDB)	27.7	1.0	0.40	ug/l	25.0	ND	111	70-130	1	25	
1,3-Dichlorobenzene	26.0	1.0	0.35	ug/l	25.0	ND	104	75-125	1	20	
1,4-Dichlorobenzene	24.8	1.0	0.37	ug/l	25.0	ND	99	75-125	0	20	
1,2-Dichlorobenzene	25.8	1.0	0.32	ug/l	25.0	ND	103	75-125	0	20	
Dichlorodifluoromethane	72.1	1.0	0.26	ug/l	25.0	ND	289	25-155	3	30	*M7*
1,1-Dichloroethane	27.2	1.0	0.27	ug/l	25.0	ND	109	65-130	3	20	
1,2-Dichloroethane	28.3	0.50	0.28	ug/l	25.0	ND	113	60-140	0	20	
cis-1,2-Dichloroethene	28.4	1.0	0.32	ug/l	25.0	1.20	109	65-130	0	20	
1,1-Dichloroethene	44.3	1.0	0.42	ug/l	25.0	20.6	95	60-130	2	20	
trans-1,2-Dichloroethene	28.4	1.0	0.27	ug/l	25.0	ND	114	65-130	1	20	
2,2-Dichloropropane	28.8	1.0	0.34	ug/l	25.0	ND	115	60-145	1	25	
1,2-Dichloropropane	26.9	1.0	0.35	ug/l	25.0	ND	108	65-130	1	20	
cis-1,3-Dichloropropene	24.0	0.50	0.22	ug/l	25.0	ND	96	70-130	1	20	
1,1-Dichloropropene	27.0	1.0	0.28	ug/l	25.0	ND	108	70-135	0	20	

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Project Manager

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Attention: Michael Rendina

Project ID: Boeing C-6 Torrance
1155.002
Report Number: IRA2754

Sampled: 01/29/08
Received: 01/29/08

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8A31018 Extracted: 01/31/08											
Matrix Spike Dup Analyzed: 01/31/2008 (8A31018-MSD1)						**Source: IRA2754-04**					
trans-1,3-Dichloropropene	24.7	0.50	0.32	ug/l	25.0	ND	99	65-135	1	25	
Ethylbenzene	27.8	1.0	0.25	ug/l	25.0	ND	111	65-130	0	20	
Hexachlorobutadiene	21.9	1.0	0.38	ug/l	25.0	ND	87	60-135	1	20	
2-Hexanone	23.9	6.0	2.6	ug/l	25.0	ND	96	25-140	8	35	
Isopropylbenzene	29.7	1.0	0.25	ug/l	25.0	ND	119	70-135	1	20	
p-Isopropyltoluene	25.6	1.0	0.28	ug/l	25.0	ND	102	65-130	2	20	
Methyl-tert-butyl Ether (MTBE)	28.5	1.0	0.32	ug/l	25.0	ND	114	55-145	3	25	
Methylene chloride	26.8	1.0	0.95	ug/l	25.0	ND	107	50-135	0	20	
4-Methyl-2-pentanone (MIBK)	25.2	5.0	3.5	ug/l	25.0	ND	101	40-140	4	35	
n-Propylbenzene	27.9	1.0	0.27	ug/l	25.0	ND	111	70-135	1	20	
Styrene	23.6	1.0	0.16	ug/l	25.0	ND	94	50-145	9	30	
1,1,1,2-Tetrachloroethane	26.4	1.0	0.27	ug/l	25.0	ND	106	65-140	0	20	
1,1,2,2-Tetrachloroethane	29.9	1.0	0.24	ug/l	25.0	ND	120	55-135	4	30	
Tetrachloroethene	25.0	1.0	0.32	ug/l	25.0	ND	100	65-130	0	20	
Toluene	25.9	1.0	0.36	ug/l	25.0	ND	104	70-125	4	20	
1,2,3-Trichlorobenzene	22.7	1.0	0.30	ug/l	25.0	ND	91	60-135	2	20	
1,2,4-Trichlorobenzene	24.2	1.0	0.48	ug/l	25.0	ND	97	65-135	0	20	
1,1,1-Trichloroethane	26.9	1.0	0.30	ug/l	25.0	ND	107	65-140	1	20	
1,1,2-Trichloroethane	26.9	1.0	0.30	ug/l	25.0	ND	107	65-130	0	25	
Trichloroethene	46.8	1.0	0.26	ug/l	25.0	21.7	100	65-125	3	20	
Trichlorofluoromethane	32.6	2.0	0.34	ug/l	25.0	ND	130	60-145	1	25	
1,2,3-Trichloropropane	28.9	1.0	0.40	ug/l	25.0	ND	115	55-135	3	30	
1,3,5-Trimethylbenzene	24.3	1.0	0.26	ug/l	25.0	ND	97	70-130	4	20	
1,2,4-Trimethylbenzene	23.9	1.0	0.23	ug/l	25.0	ND	96	55-135	4	25	
Vinyl acetate	28.5	6.0	1.0	ug/l	25.0	ND	114	40-150	1	30	
Vinyl chloride	35.0	0.50	0.30	ug/l	25.0	0.510	138	45-140	9	30	
Surrogate: Dibromofluoromethane	*25.2*			*ug/l*	*25.0*		*101*	*80-120*			
Surrogate: Toluene-d8	*24.9*			*ug/l*	*25.0*		*99*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*24.8*			*ug/l*	*25.0*		*99*	*80-120*			

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Project Manager

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Attention: Michael Rendina

Project ID: Boeing C-6 Torrance
1155.002
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Sampled: 01/29/08
Received: 01/29/08

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8A31024 Extracted: 01/31/08											
Blank Analyzed: 01/31/2008 (8A31024-BLK1)											
Acetone	ND	10	4.5	ug/l							
Benzene	ND	1.0	0.28	ug/l							
Bromobenzene	ND	1.0	0.27	ug/l							
Bromochloromethane	ND	1.0	0.32	ug/l							
Bromodichloromethane	ND	1.0	0.30	ug/l							
Bromoform	ND	1.0	0.40	ug/l							
Bromomethane	ND	1.0	0.42	ug/l							
2-Butanone (MEK)	ND	5.0	4.7	ug/l							
tert-Butylbenzene	ND	1.0	0.22	ug/l							
n-Butylbenzene	ND	1.0	0.37	ug/l							
sec-Butylbenzene	ND	1.0	0.25	ug/l							
Carbon Disulfide	ND	1.0	0.48	ug/l							
Carbon tetrachloride	ND	0.50	0.28	ug/l							
Chlorobenzene	ND	1.0	0.36	ug/l							
Chloroethane	ND	2.0	0.40	ug/l							
Chloroform	ND	1.0	0.33	ug/l							
Chloromethane	ND	2.0	0.40	ug/l							
2-Chlorotoluene	ND	1.0	0.28	ug/l							
4-Chlorotoluene	ND	1.0	0.29	ug/l							
1,2-Dibromo-3-chloropropane	ND	2.0	0.97	ug/l							
Dibromochloromethane	ND	1.0	0.28	ug/l							
1,2-Dibromoethane (EDB)	ND	1.0	0.40	ug/l							
1,3-Dichlorobenzene	ND	1.0	0.35	ug/l							
1,4-Dichlorobenzene	ND	1.0	0.37	ug/l							
1,2-Dichlorobenzene	ND	1.0	0.32	ug/l							
Dichlorodifluoromethane	ND	1.0	0.26	ug/l							
1,1-Dichloroethane	ND	1.0	0.27	ug/l							
1,2-Dichloroethane	ND	0.50	0.28	ug/l							
cis-1,2-Dichloroethene	ND	1.0	0.32	ug/l							
1,1-Dichloroethene	ND	1.0	0.42	ug/l							
trans-1,2-Dichloroethene	ND	1.0	0.27	ug/l							
2,2-Dichloropropane	ND	1.0	0.34	ug/l							
1,2-Dichloropropane	ND	1.0	0.35	ug/l							
cis-1,3-Dichloropropene	ND	0.50	0.22	ug/l							
1,1-Dichloropropene	ND	1.0	0.28	ug/l							

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METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8A31024 Extracted: 01/31/08											
Blank Analyzed: 01/31/2008 (8A31024-BLK1)											
trans-1,3-Dichloropropene	ND	0.50	0.32	ug/l							
Ethylbenzene	ND	1.0	0.25	ug/l							
Hexachlorobutadiene	ND	1.0	0.38	ug/l							
2-Hexanone	ND	6.0	2.6	ug/l							
Iodomethane	ND	2.0	1.0	ug/l							
Isopropylbenzene	ND	1.0	0.25	ug/l							
p-Isopropyltoluene	ND	1.0	0.28	ug/l							
Methyl-tert-butyl Ether (MTBE)	ND	1.0	0.32	ug/l							
Methylene chloride	ND	1.0	0.95	ug/l							
4-Methyl-2-pentanone (MIBK)	ND	5.0	3.5	ug/l							
n-Propylbenzene	ND	1.0	0.27	ug/l							
Styrene	ND	1.0	0.16	ug/l							
1,1,1,2-Tetrachloroethane	ND	1.0	0.27	ug/l							
1,1,2,2-Tetrachloroethane	ND	1.0	0.24	ug/l							
Tetrachloroethene	ND	1.0	0.32	ug/l							
Tetrahydrofuran (THF)	ND	10	3.5	ug/l							
Toluene	ND	1.0	0.36	ug/l							
1,2,3-Trichlorobenzene	ND	1.0	0.30	ug/l							
1,2,4-Trichlorobenzene	ND	1.0	0.48	ug/l							
1,1,1-Trichloroethane	ND	1.0	0.30	ug/l							
1,1,2-Trichloroethane	ND	1.0	0.30	ug/l							
Trichloroethene	ND	1.0	0.26	ug/l							
Trichlorofluoromethane	ND	2.0	0.34	ug/l							
1,2,3-Trichloropropane	ND	1.0	0.40	ug/l							
1,3,5-Trimethylbenzene	ND	1.0	0.26	ug/l							
1,2,4-Trimethylbenzene	ND	1.0	0.23	ug/l							
Vinyl acetate	ND	6.0	1.0	ug/l							
Vinyl chloride	ND	0.50	0.30	ug/l							
Xylenes, Total	ND	1.0	0.90	ug/l							
Surrogate: Dibromofluoromethane	*27.3*			*ug/l*	*25.0*		*109*	*80-120*			
Surrogate: Toluene-d8	*25.2*			*ug/l*	*25.0*		*101*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*22.5*			*ug/l*	*25.0*		*90*	*80-120*			

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
17461 Derian Avenue. Suite 100, Irvine, CA 92614 (949) 261-1022 Fax:(949) 260-3297

Avocet Environmental Inc.
16 Technology Drive, Suite 154
Irvine, CA 92618
Attention: Michael Rendina

Project ID: Boeing C-6 Torrance
1155.002
Report Number: IRA2754

Sampled: 01/29/08
Received: 01/29/08

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8A31024 Extracted: 01/31/08											
LCS Analyzed: 01/31/2008 (8A31024-BS1)											
Acetone	34.4	10	4.5	ug/l	25.0		138	30-140			
Benzene	25.5	1.0	0.28	ug/l	25.0		102	70-120			
Bromobenzene	23.9	1.0	0.27	ug/l	25.0		96	75-120			
Bromochloromethane	25.7	1.0	0.32	ug/l	25.0		103	70-130			
Bromodichloromethane	28.8	1.0	0.30	ug/l	25.0		115	70-135			
Bromoform	21.3	1.0	0.40	ug/l	25.0		85	55-130			
Bromomethane	27.0	1.0	0.42	ug/l	25.0		108	65-140			
2-Butanone (MEK)	28.7	5.0	4.7	ug/l	25.0		115	40-140			
tert-Butylbenzene	23.4	1.0	0.22	ug/l	25.0		94	70-125			
n-Butylbenzene	26.5	1.0	0.37	ug/l	25.0		106	70-130			
sec-Butylbenzene	25.3	1.0	0.25	ug/l	25.0		101	70-125			
Carbon Disulfide	27.8	1.0	0.48	ug/l	25.0		111	50-130			
Carbon tetrachloride	26.6	0.50	0.28	ug/l	25.0		106	65-140			
Chlorobenzene	24.3	1.0	0.36	ug/l	25.0		97	75-120			
Chloroethane	27.6	2.0	0.40	ug/l	25.0		110	60-140			
Chloroform	28.2	1.0	0.33	ug/l	25.0		113	70-130			
Chloromethane	26.4	2.0	0.40	ug/l	25.0		105	50-140			
2-Chlorotoluene	25.0	1.0	0.28	ug/l	25.0		100	70-125			
4-Chlorotoluene	26.2	1.0	0.29	ug/l	25.0		105	75-125			
1,2-Dibromo-3-chloropropane	28.5	2.0	0.97	ug/l	25.0		114	50-135			
Dibromochloromethane	24.4	1.0	0.28	ug/l	25.0		98	70-140			
1,2-Dibromoethane (EDB)	25.0	1.0	0.40	ug/l	25.0		100	75-125			
1,3-Dichlorobenzene	25.5	1.0	0.35	ug/l	25.0		102	75-120			
1,4-Dichlorobenzene	23.8	1.0	0.37	ug/l	25.0		95	75-120			
1,2-Dichlorobenzene	25.7	1.0	0.32	ug/l	25.0		103	75-120			
Dichlorodifluoromethane	31.5	1.0	0.26	ug/l	25.0		126	35-155			
1,1-Dichloroethane	27.5	1.0	0.27	ug/l	25.0		110	70-125			
1,2-Dichloroethane	25.4	0.50	0.28	ug/l	25.0		102	60-140			
cis-1,2-Dichloroethene	28.4	1.0	0.32	ug/l	25.0		114	70-125			
1,1-Dichloroethene	31.1	1.0	0.42	ug/l	25.0		124	70-125			
trans-1,2-Dichloroethene	27.9	1.0	0.27	ug/l	25.0		112	70-125			
2,2-Dichloropropane	27.9	1.0	0.34	ug/l	25.0		111	65-140			
1,2-Dichloropropane	26.1	1.0	0.35	ug/l	25.0		104	70-125			
cis-1,3-Dichloropropene	23.2	0.50	0.22	ug/l	25.0		93	75-125			
1,1-Dichloropropene	25.8	1.0	0.28	ug/l	25.0		103	75-130			

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BOE-C6-0188217

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Irvine, CA 92618
Attention: Michael Rendina

Project ID: Boeing C-6 Torrance
1155.002
Report Number: IRA2754

Sampled: 01/29/08
Received: 01/29/08

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8A31024 Extracted: 01/31/08											
LCS Analyzed: 01/31/2008 (8A31024-BS1)											
trans-1,3-Dichloropropene	23.0	0.50	0.32	ug/l	25.0		92	70-125			
Ethylbenzene	26.4	1.0	0.25	ug/l	25.0		105	75-125			
Hexachlorobutadiene	24.2	1.0	0.38	ug/l	25.0		97	65-135			
2-Hexanone	25.4	6.0	2.6	ug/l	25.0		102	45-140			
Isopropylbenzene	27.3	1.0	0.25	ug/l	25.0		109	75-130			
p-Isopropyltoluene	24.4	1.0	0.28	ug/l	25.0		98	75-125			
Methyl-tert-butyl Ether (MTBE)	25.8	1.0	0.32	ug/l	25.0		103	60-135			
Methylene chloride	28.0	1.0	0.95	ug/l	25.0		112	55-130			
4-Methyl-2-pentanone (MIBK)	25.6	5.0	3.5	ug/l	25.0		102	45-140			
n-Propylbenzene	26.6	1.0	0.27	ug/l	25.0		106	75-130			
Styrene	25.7	1.0	0.16	ug/l	25.0		103	75-130			
1,1,1,2-Tetrachloroethane	25.5	1.0	0.27	ug/l	25.0		102	70-130			
1,1,2,2-Tetrachloroethane	27.2	1.0	0.24	ug/l	25.0		109	55-130			
Tetrachloroethene	22.6	1.0	0.32	ug/l	25.0		90	70-125			
Toluene	25.6	1.0	0.36	ug/l	25.0		103	70-120			
1,2,3-Trichlorobenzene	25.2	1.0	0.30	ug/l	25.0		101	65-125			
1,2,4-Trichlorobenzene	25.6	1.0	0.48	ug/l	25.0		102	70-135			
1,1,1-Trichloroethane	28.0	1.0	0.30	ug/l	25.0		112	65-135			
1,1,2-Trichloroethane	25.6	1.0	0.30	ug/l	25.0		103	70-125			
Trichloroethene	24.6	1.0	0.26	ug/l	25.0		98	70-125			
Trichlorofluoromethane	32.0	2.0	0.34	ug/l	25.0		128	65-145			
1,2,3-Trichloropropane	34.0	1.0	0.40	ug/l	25.0		136	60-130			*L*
1,3,5-Trimethylbenzene	24.6	1.0	0.26	ug/l	25.0		99	75-125			
1,2,4-Trimethylbenzene	24.5	1.0	0.23	ug/l	25.0		98	75-125			
Vinyl acetate	32.1	6.0	1.0	ug/l	25.0		128	45-145			
Vinyl chloride	25.8	0.50	0.30	ug/l	25.0		103	55-135			
Surrogate: Dibromofluoromethane	*26.8*			*ug/l*	*25.0*		*107*	*80-120*			
Surrogate: Toluene-d8	*25.5*			*ug/l*	*25.0*		*102*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*25.2*			*ug/l*	*25.0*		*101*	*80-120*			

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Avocet Environmental Inc.
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Attention: Michael Rendina

Project ID: Boeing C-6 Torrance
1155.002
Report Number: IRA2754

Sampled: 01/29/08
Received: 01/29/08

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8A31024 Extracted: 01/31/08											
Matrix Spike Analyzed: 01/31/2008 (8A31024-MS1)						**Source: IRA2310-01RE1**					
Acetone	29.9	10	4.5	ug/l	25.0	ND	120	20-150			
Benzene	22.3	1.0	0.28	ug/l	25.0	ND	89	65-125			
Bromobenzene	20.9	1.0	0.27	ug/l	25.0	ND	83	70-125			
Bromochloromethane	22.2	1.0	0.32	ug/l	25.0	ND	89	65-135			
Bromodichloromethane	24.2	1.0	0.30	ug/l	25.0	ND	97	70-135			
Bromoform	18.5	1.0	0.40	ug/l	25.0	ND	74	55-135			
Bromomethane	22.0	1.0	0.42	ug/l	25.0	ND	88	55-145			
2-Butanone (MEK)	26.7	5.0	4.7	ug/l	25.0	ND	107	30-145			
tert-Butylbenzene	20.9	1.0	0.22	ug/l	25.0	ND	83	65-130			
n-Butylbenzene	23.7	1.0	0.37	ug/l	25.0	ND	95	65-135			
sec-Butylbenzene	22.6	1.0	0.25	ug/l	25.0	ND	90	70-125			
Carbon Disulfide	24.1	1.0	0.48	ug/l	25.0	ND	97	40-140			
Carbon tetrachloride	22.1	0.50	0.28	ug/l	25.0	ND	89	65-140			
Chlorobenzene	21.2	1.0	0.36	ug/l	25.0	ND	85	75-125			
Chloroethane	23.0	2.0	0.40	ug/l	25.0	ND	92	55-140			
Chloroform	24.2	1.0	0.33	ug/l	25.0	ND	97	65-135			
Chloromethane	22.3	2.0	0.40	ug/l	25.0	ND	89	45-145			
2-Chlorotoluene	22.1	1.0	0.28	ug/l	25.0	ND	88	65-135			
4-Chlorotoluene	23.2	1.0	0.29	ug/l	25.0	ND	93	70-135			
1,2-Dibromo-3-chloropropane	25.0	2.0	0.97	ug/l	25.0	ND	100	45-145			
Dibromochloromethane	20.7	1.0	0.28	ug/l	25.0	ND	83	65-140			
1,2-Dibromoethane (EDB)	21.6	1.0	0.40	ug/l	25.0	ND	86	70-130			
1,3-Dichlorobenzene	22.8	1.0	0.35	ug/l	25.0	ND	91	75-125			
1,4-Dichlorobenzene	21.4	1.0	0.37	ug/l	25.0	ND	86	75-125			
1,2-Dichlorobenzene	23.0	1.0	0.32	ug/l	25.0	ND	92	75-125			
Dichlorodifluoromethane	23.6	1.0	0.26	ug/l	25.0	ND	94	25-155			
1,1-Dichloroethane	23.7	1.0	0.27	ug/l	25.0	ND	95	65-130			
1,2-Dichloroethane	21.6	0.50	0.28	ug/l	25.0	ND	86	60-140			
cis-1,2-Dichloroethene	25.1	1.0	0.32	ug/l	25.0	ND	100	65-130			
1,1-Dichloroethene	27.4	1.0	0.42	ug/l	25.0	ND	110	60-130			
trans-1,2-Dichloroethene	24.5	1.0	0.27	ug/l	25.0	ND	98	65-130			
2,2-Dichloropropane	25.1	1.0	0.34	ug/l	25.0	ND	100	60-145			
1,2-Dichloropropane	22.7	1.0	0.35	ug/l	25.0	ND	91	65-130			
cis-1,3-Dichloropropene	20.1	0.50	0.22	ug/l	25.0	ND	80	70-130			
1,1-Dichloropropene	21.9	1.0	0.28	ug/l	25.0	ND	88	70-135			

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BOE-C6-0188218

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Avocet Environmental Inc.
16 Technology Drive, Suite 154
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Attention: Michael Rendina

Project ID: Boeing C-6 Torrance
1155.002
Report Number: IRA2754

Sampled: 01/29/08
Received: 01/29/08

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8A31024 Extracted: 01/31/08											
Matrix Spike Analyzed: 01/31/2008 (8A31024-MS1)						**Source: IRA2310-01RE1**					
trans-1,3-Dichloropropene	19.6	0.50	0.32	ug/l	25.0	ND	78	65-135			
Ethylbenzene	22.8	1.0	0.25	ug/l	25.0	ND	91	65-130			
Hexachlorobutadiene	21.3	1.0	0.38	ug/l	25.0	ND	85	60-135			
2-Hexanone	22.8	6.0	2.6	ug/l	25.0	ND	91	25-140			
Isopropylbenzene	24.5	1.0	0.25	ug/l	25.0	ND	98	70-135			
p-Isopropyltoluene	21.7	1.0	0.28	ug/l	25.0	ND	87	65-130			
Methyl-tert-butyl Ether (MTBE)	25.2	1.0	0.32	ug/l	25.0	2.27	92	55-145			
Methylene chloride	25.0	1.0	0.95	ug/l	25.0	ND	100	50-135			
4-Methyl-2-pentanone (MIBK)	22.2	5.0	3.5	ug/l	25.0	ND	89	40-140			
n-Propylbenzene	23.6	1.0	0.27	ug/l	25.0	ND	94	70-135			
Styrene	22.2	1.0	0.16	ug/l	25.0	ND	89	50-145			
1,1,1,2-Tetrachloroethane	21.9	1.0	0.27	ug/l	25.0	ND	88	65-140			
1,1,2,2-Tetrachloroethane	24.8	1.0	0.24	ug/l	25.0	ND	99	55-135			
Tetrachloroethene	19.5	1.0	0.32	ug/l	25.0	ND	78	65-130			
Toluene	22.0	1.0	0.36	ug/l	25.0	ND	88	70-125			
1,2,3-Trichlorobenzene	22.7	1.0	0.30	ug/l	25.0	ND	91	60-135			
1,2,4-Trichlorobenzene	23.3	1.0	0.48	ug/l	25.0	ND	93	65-135			
1,1,1-Trichloroethane	23.8	1.0	0.30	ug/l	25.0	ND	95	65-140			
1,1,2-Trichloroethane	22.6	1.0	0.30	ug/l	25.0	ND	91	65-130			
Trichloroethene	20.8	1.0	0.26	ug/l	25.0	ND	83	65-125			
Trichlorofluoromethane	23.6	2.0	0.34	ug/l	25.0	ND	94	60-145			
1,2,3-Trichloropropane	31.4	1.0	0.40	ug/l	25.0	ND	126	55-135			
1,3,5-Trimethylbenzene	21.9	1.0	0.26	ug/l	25.0	ND	88	70-130			
1,2,4-Trimethylbenzene	21.4	1.0	0.23	ug/l	25.0	ND	86	55-135			
Vinyl acetate	27.1	6.0	1.0	ug/l	25.0	ND	109	40-150			
Vinyl chloride	21.2	0.50	0.30	ug/l	25.0	ND	85	45-140			
Surrogate: Dibromofluoromethane	*26.4*			*ug/l*	*25.0*		*106*	*80-120*			
Surrogate: Toluene-d8	*25.2*			*ug/l*	*25.0*		*101*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*24.7*			*ug/l*	*25.0*		*99*	*80-120*			

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Project Manager

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Project ID: Boeing C-6 Torrance
1155.002
Report Number: IRA2754

Sampled: 01/29/08
Received: 01/29/08

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8A31024 Extracted: 01/31/08											
Matrix Spike Dup Analyzed: 01/31/2008 (8A31024-MSD1)						**Source: IRA2310-01RE1**					
Acetone	45.1	10	4.5	ug/l	25.0	ND	180	20-150	40	35	*M1, R-3*
Benzene	24.5	1.0	0.28	ug/l	25.0	ND	98	65-125	9	20	
Bromobenzene	23.8	1.0	0.27	ug/l	25.0	ND	95	70-125	13	20	
Bromochloromethane	28.2	1.0	0.32	ug/l	25.0	ND	113	65-135	24	25	
Bromodichloromethane	29.5	1.0	0.30	ug/l	25.0	ND	118	70-135	20	20	
Bromoform	23.8	1.0	0.40	ug/l	25.0	ND	95	55-135	25	25	
Bromomethane	23.1	1.0	0.42	ug/l	25.0	ND	93	55-145	5	25	
2-Butanone (MEK)	40.0	5.0	4.7	ug/l	25.0	ND	160	30-145	40	40	*M1*
tert-Butylbenzene	22.0	1.0	0.22	ug/l	25.0	ND	88	65-130	5	20	
n-Butylbenzene	25.1	1.0	0.37	ug/l	25.0	ND	100	65-135	5	20	
sec-Butylbenzene	23.9	1.0	0.25	ug/l	25.0	ND	96	70-125	6	20	
Carbon Disulfide	24.8	1.0	0.48	ug/l	25.0	ND	99	40-140	3	20	
Carbon tetrachloride	23.5	0.50	0.28	ug/l	25.0	ND	94	65-140	6	25	
Chlorobenzene	23.4	1.0	0.36	ug/l	25.0	ND	93	75-125	10	20	
Chloroethane	23.8	2.0	0.40	ug/l	25.0	ND	95	55-140	4	25	
Chloroform	29.0	1.0	0.33	ug/l	25.0	ND	116	65-135	18	20	
Chloromethane	21.5	2.0	0.40	ug/l	25.0	ND	86	45-145	4	25	
2-Chlorotoluene	23.6	1.0	0.28	ug/l	25.0	ND	94	65-135	7	20	
4-Chlorotoluene	25.0	1.0	0.29	ug/l	25.0	ND	100	70-135	8	20	
1,2-Dibromo-3-chloropropane	34.9	2.0	0.97	ug/l	25.0	ND	139	45-145	33	30	*R*
Dibromochloromethane	26.0	1.0	0.28	ug/l	25.0	ND	104	65-140	23	25	
1,2-Dibromoethane (EDB)	27.8	1.0	0.40	ug/l	25.0	ND	111	70-130	25	25	
1,3-Dichlorobenzene	25.2	1.0	0.35	ug/l	25.0	ND	101	75-125	10	20	
1,4-Dichlorobenzene	23.6	1.0	0.37	ug/l	25.0	ND	95	75-125	10	20	
1,2-Dichlorobenzene	26.5	1.0	0.32	ug/l	25.0	ND	106	75-125	14	20	
Dichlorodifluoromethane	15.8	1.0	0.26	ug/l	25.0	ND	63	25-155	39	30	*R*
1,1-Dichloroethane	27.1	1.0	0.27	ug/l	25.0	ND	108	65-130	13	20	
1,2-Dichloroethane	27.4	0.50	0.28	ug/l	25.0	ND	109	60-140	24	20	*R*
cis-1,2-Dichloroethene	29.2	1.0	0.32	ug/l	25.0	ND	117	65-130	15	20	
1,1-Dichloroethene	30.2	1.0	0.42	ug/l	25.0	ND	121	60-130	10	20	
trans-1,2-Dichloroethene	27.0	1.0	0.27	ug/l	25.0	ND	108	65-130	10	20	
2,2-Dichloropropane	27.2	1.0	0.34	ug/l	25.0	ND	109	60-145	8	25	
1,2-Dichloropropane	26.9	1.0	0.35	ug/l	25.0	ND	107	65-130	17	20	
cis-1,3-Dichloropropene	24.4	0.50	0.22	ug/l	25.0	ND	98	70-130	19	20	
1,1-Dichloropropene	22.8	1.0	0.28	ug/l	25.0	ND	91	70-135	4	20	

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BOE-C6-0188219

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THE LEADER IN ENVIRONMENTAL TESTING
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Avocet Environmental Inc.
16 Technology Drive, Suite 154
Irvine, CA 92618
Attention: Michael Rendina

Project ID: Boeing C-6 Torrance
1155.002
Report Number: IRA2754

Sampled: 01/29/08
Received: 01/29/08

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8A31024 Extracted: 01/31/08											
Matrix Spike Dup Analyzed: 01/31/2008 (8A31024-MSD1)						**Source: IRA2310-01RE1**					
trans-1,3-Dichloropropene	25.5	0.50	0.32	ug/l	25.0	ND	102	65-135	27	25	*R*
Ethylbenzene	24.4	1.0	0.25	ug/l	25.0	ND	98	65-130	7	20	
Hexachlorobutadiene	24.4	1.0	0.38	ug/l	25.0	ND	97	60-135	14	20	
2-Hexanone	32.8	6.0	2.6	ug/l	25.0	ND	131	25-140	36	35	*R*
Isopropylbenzene	25.6	1.0	0.25	ug/l	25.0	ND	102	70-135	4	20	
p-Isopropyltoluene	23.0	1.0	0.28	ug/l	25.0	ND	92	65-130	6	20	
Methyl-tert-butyl Ether (MTBE)	33.9	1.0	0.32	ug/l	25.0	2.27	127	55-145	30	25	*R*
Methylene chloride	30.0	1.0	0.95	ug/l	25.0	ND	120	50-135	18	20	
4-Methyl-2-pentanone (MIBK)	34.5	5.0	3.5	ug/l	25.0	ND	138	40-140	44	35	*R*
n-Propylbenzene	25.0	1.0	0.27	ug/l	25.0	ND	100	70-135	6	20	
Styrene	23.0	1.0	0.16	ug/l	25.0	ND	92	50-145	3	30	
1,1,1,2-Tetrachloroethane	25.2	1.0	0.27	ug/l	25.0	ND	101	65-140	14	20	
1,1,2,2-Tetrachloroethane	33.0	1.0	0.24	ug/l	25.0	ND	132	55-135	29	30	
Tetrachloroethene	19.7	1.0	0.32	ug/l	25.0	ND	79	65-130	1	20	
Toluene	25.0	1.0	0.36	ug/l	25.0	ND	100	70-125	12	20	
1,2,3-Trichlorobenzene	27.1	1.0	0.30	ug/l	25.0	ND	109	60-135	18	20	
1,2,4-Trichlorobenzene	27.0	1.0	0.48	ug/l	25.0	ND	108	65-135	15	20	
1,1,1-Trichloroethane	26.4	1.0	0.30	ug/l	25.0	ND	106	65-140	11	20	
1,1,2-Trichloroethane	29.8	1.0	0.30	ug/l	25.0	ND	119	65-130	27	25	*R*
Trichloroethene	23.0	1.0	0.26	ug/l	25.0	ND	92	65-125	10	20	
Trichlorofluoromethane	23.8	2.0	0.34	ug/l	25.0	ND	95	60-145	1	25	
1,2,3-Trichloropropane	41.5	1.0	0.40	ug/l	25.0	ND	166	55-135	28	30	*M7*
1,3,5-Trimethylbenzene	22.4	1.0	0.26	ug/l	25.0	ND	90	70-130	2	20	
1,2,4-Trimethylbenzene	22.6	1.0	0.23	ug/l	25.0	ND	91	55-135	5	25	
Vinyl acetate	37.7	6.0	1.0	ug/l	25.0	ND	151	40-150	33	30	*M1, R-3*
Vinyl chloride	18.9	0.50	0.30	ug/l	25.0	ND	76	45-140	11	30	
Surrogate: Dibromofluoromethane	*29.4*			*ug/l*	*25.0*		*118*	*80-120*			
Surrogate: Toluene-d8	*25.7*			*ug/l*	*25.0*		*103*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*24.9*			*ug/l*	*25.0*		*100*	*80-120*			

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THE LEADER IN ENVIRONMENTAL TESTING
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Avocet Environmental Inc.
16 Technology Drive, Suite 154
Irvine, CA 92618
Attention: Michael Rendina

Project ID: Boeing C-6 Torrance
1155.002
Report Number: IRA2754

Sampled: 01/29/08
Received: 01/29/08

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8B01005 Extracted: 02/01/08											
Blank Analyzed: 02/01/2008 (8B01005-BLK1)											
Acetone	ND	10	4.5	ug/l							
Benzene	ND	1.0	0.28	ug/l							
Bromobenzene	ND	1.0	0.27	ug/l							
Bromochloromethane	ND	1.0	0.32	ug/l							
Bromodichloromethane	ND	1.0	0.30	ug/l							
Bromoform	ND	1.0	0.40	ug/l							
Bromomethane	ND	1.0	0.42	ug/l							
2-Butanone (MEK)	ND	5.0	4.7	ug/l							
tert-Butylbenzene	ND	1.0	0.22	ug/l							
n-Butylbenzene	ND	1.0	0.37	ug/l							
sec-Butylbenzene	ND	1.0	0.25	ug/l							
Carbon Disulfide	ND	1.0	0.48	ug/l							
Carbon tetrachloride	ND	0.50	0.28	ug/l							
Chlorobenzene	ND	1.0	0.36	ug/l							
Chloroethane	ND	2.0	0.40	ug/l							
Chloroform	ND	1.0	0.33	ug/l							
Chloromethane	ND	2.0	0.40	ug/l							
2-Chlorotoluene	ND	1.0	0.28	ug/l							
4-Chlorotoluene	ND	1.0	0.29	ug/l							
1,2-Dibromo-3-chloropropane	ND	2.0	0.97	ug/l							
Dibromochloromethane	ND	1.0	0.28	ug/l							
1,2-Dibromoethane (EDB)	ND	1.0	0.40	ug/l							
1,3-Dichlorobenzene	ND	1.0	0.35	ug/l							
1,4-Dichlorobenzene	ND	1.0	0.37	ug/l							
1,2-Dichlorobenzene	ND	1.0	0.32	ug/l							
Dichlorodifluoromethane	ND	1.0	0.26	ug/l							
1,1-Dichloroethane	ND	1.0	0.27	ug/l							
1,2-Dichloroethane	ND	0.50	0.28	ug/l							
cis-1,2-Dichloroethene	ND	1.0	0.32	ug/l							
1,1-Dichloroethene	ND	1.0	0.42	ug/l							
trans-1,2-Dichloroethene	ND	1.0	0.27	ug/l							
2,2-Dichloropropane	ND	1.0	0.34	ug/l							
1,2-Dichloropropane	ND	1.0	0.35	ug/l							
cis-1,3-Dichloropropene	ND	0.50	0.22	ug/l							
1,1-Dichloropropene	ND	1.0	0.28	ug/l							

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Avocet Environmental Inc.
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Project ID: Boeing C-6 Torrance
1155.002
Report Number: IRA2754

Sampled: 01/29/08
Received: 01/29/08

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Batch: 8B01005 Extracted: 02/01/08

Blank Analyzed: 02/01/2008 (8B01005-BLK1)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
trans-1,3-Dichloropropene	ND	0.50	0.32	ug/l							
Ethylbenzene	ND	1.0	0.25	ug/l							
Hexachlorobutadiene	ND	1.0	0.38	ug/l							
2-Hexanone	ND	6.0	2.6	ug/l							
Iodomethane	ND	2.0	1.0	ug/l							
Isopropylbenzene	ND	1.0	0.25	ug/l							
p-Isopropyltoluene	ND	1.0	0.28	ug/l							
Methyl-tert-butyl Ether (MTBE)	ND	1.0	0.32	ug/l							
Methylene chloride	ND	1.0	0.95	ug/l							
4-Methyl-2-pentanone (MIBK)	ND	5.0	3.5	ug/l							
n-Propylbenzene	ND	1.0	0.27	ug/l							
Styrene	ND	1.0	0.16	ug/l							
1,1,1,2-Tetrachloroethane	ND	1.0	0.27	ug/l							
1,1,2,2-Tetrachloroethane	ND	1.0	0.24	ug/l							
Tetrachloroethene	ND	1.0	0.32	ug/l							
Tetrahydrofuran (THF)	ND	10	3.5	ug/l							
Toluene	ND	1.0	0.36	ug/l							
1,2,3-Trichlorobenzene	ND	1.0	0.30	ug/l							
1,2,4-Trichlorobenzene	ND	1.0	0.48	ug/l							
1,1,1-Trichloroethane	ND	1.0	0.30	ug/l							
1,1,2-Trichloroethane	ND	1.0	0.30	ug/l							
Trichloroethene	ND	1.0	0.26	ug/l							
Trichlorofluoromethane	ND	2.0	0.34	ug/l							
1,2,3-Trichloropropane	ND	1.0	0.40	ug/l							
1,3,5-Trimethylbenzene	ND	1.0	0.26	ug/l							
1,2,4-Trimethylbenzene	ND	1.0	0.23	ug/l							
Vinyl acetate	ND	6.0	1.0	ug/l							
Vinyl chloride	ND	0.50	0.30	ug/l							
Xylenes, Total	ND	1.0	0.90	ug/l							
Surrogate: Dibromofluoromethane	*27.6*			*ug/l*	*25.0*		*110*	*80-120*			
Surrogate: Toluene-d8	*25.4*			*ug/l*	*25.0*		*102*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*22.7*			*ug/l*	*25.0*		*91*	*80-120*			

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Project ID: Boeing C-6 Torrance
1155.002
Report Number: IRA2754

Sampled: 01/29/08
Received: 01/29/08

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Batch: 8B01005 Extracted: 02/01/08

LCS Analyzed: 02/01/2008 (8B01005-BS1)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Acetone	29.2	10	4.5	ug/l	25.0		117	30-140			
Benzene	25.0	1.0	0.28	ug/l	25.0		100	70-120			
Bromobenzene	23.6	1.0	0.27	ug/l	25.0		95	75-120			
Bromochloromethane	25.6	1.0	0.32	ug/l	25.0		102	70-130			
Bromodichloromethane	28.4	1.0	0.30	ug/l	25.0		114	70-135			
Bromoform	22.0	1.0	0.40	ug/l	25.0		88	55-130			
Bromomethane	29.3	1.0	0.42	ug/l	25.0		117	65-140			
2-Butanone (MEK)	28.9	5.0	4.7	ug/l	25.0		115	40-140			
tert-Butylbenzene	23.1	1.0	0.22	ug/l	25.0		92	70-125			
n-Butylbenzene	26.0	1.0	0.37	ug/l	25.0		104	70-130			
sec-Butylbenzene	24.8	1.0	0.25	ug/l	25.0		99	70-125			
Carbon Disulfide	28.2	1.0	0.48	ug/l	25.0		113	50-130			
Carbon tetrachloride	27.1	0.50	0.28	ug/l	25.0		108	65-140			
Chlorobenzene	23.6	1.0	0.36	ug/l	25.0		94	75-120			
Chloroethane	29.8	2.0	0.40	ug/l	25.0		119	60-140			
Chloroform	28.3	1.0	0.33	ug/l	25.0		113	70-130			
Chloromethane	31.2	2.0	0.40	ug/l	25.0		125	50-140			
2-Chlorotoluene	24.5	1.0	0.28	ug/l	25.0		98	70-125			
4-Chlorotoluene	25.9	1.0	0.29	ug/l	25.0		104	75-125			
1,2-Dibromo-3-chloropropane	28.9	2.0	0.97	ug/l	25.0		116	50-135			
Dibromochloromethane	24.8	1.0	0.28	ug/l	25.0		99	70-140			
1,2-Dibromoethane (EDB)	24.9	1.0	0.40	ug/l	25.0		100	75-125			
1,3-Dichlorobenzene	25.1	1.0	0.35	ug/l	25.0		101	75-120			
1,4-Dichlorobenzene	23.4	1.0	0.37	ug/l	25.0		94	75-120			
1,2-Dichlorobenzene	25.3	1.0	0.32	ug/l	25.0		101	75-120			
Dichlorodifluoromethane	37.3	1.0	0.26	ug/l	25.0		149	35-155			
1,1-Dichloroethane	27.5	1.0	0.27	ug/l	25.0		110	70-125			
1,2-Dichloroethane	25.4	0.50	0.28	ug/l	25.0		102	60-140			
cis-1,2-Dichloroethene	28.2	1.0	0.32	ug/l	25.0		113	70-125			
1,1-Dichloroethene	25.2	1.0	0.42	ug/l	25.0		101	70-125			
trans-1,2-Dichloroethene	28.5	1.0	0.27	ug/l	25.0		114	70-125			
2,2-Dichloropropane	28.8	1.0	0.34	ug/l	25.0		115	65-140			
1,2-Dichloropropane	26.0	1.0	0.35	ug/l	25.0		104	70-125			
cis-1,3-Dichloropropene	23.1	0.50	0.22	ug/l	25.0		92	75-125			
1,1-Dichloropropene	25.3	1.0	0.28	ug/l	25.0		101	75-130			

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Project Manager

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BOE-C6-0188221

Avocet Environmental Inc.
16 Technology Drive, Suite 154
Irvine, CA 92618
Attention: Michael Rendina

Project ID: Boeing C-6 Torrance
1155.002
Report Number: IRA2754

Sampled: 01/29/08
Received: 01/29/08

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8B01005 Extracted: 02/01/08											
LCS Analyzed: 02/01/2008 (8B01005-BS1)											
trans-1,3-Dichloropropene	23.5	0.50	0.32	ug/l	25.0		94	70-125			
Ethylbenzene	25.5	1.0	0.25	ug/l	25.0		102	75-125			
Hexachlorobutadiene	23.0	1.0	0.38	ug/l	25.0		92	65-135			
2-Hexanone	26.0	6.0	2.6	ug/l	25.0		104	45-140			
Isopropylbenzene	26.8	1.0	0.25	ug/l	25.0		107	75-130			
p-Isopropyltoluene	24.1	1.0	0.28	ug/l	25.0		96	75-125			
Methyl-tert-butyl Ether (MTBE)	27.1	1.0	0.32	ug/l	25.0		108	60-135			
Methylene chloride	27.1	1.0	0.95	ug/l	25.0		109	55-130			
4-Methyl-2-pentanone (MIBK)	26.1	5.0	3.5	ug/l	25.0		104	45-140			
n-Propylbenzene	26.0	1.0	0.27	ug/l	25.0		104	75-130			
Styrene	25.1	1.0	0.16	ug/l	25.0		100	75-130			
1,1,1,2-Tetrachloroethane	25.5	1.0	0.27	ug/l	25.0		102	70-130			
1,1,2,2-Tetrachloroethane	28.0	1.0	0.24	ug/l	25.0		112	55-130			
Tetrachloroethene	21.4	1.0	0.32	ug/l	25.0		85	70-125			
Toluene	24.8	1.0	0.36	ug/l	25.0		99	70-120			
1,2,3-Trichlorobenzene	24.3	1.0	0.30	ug/l	25.0		97	65-125			
1,2,4-Trichlorobenzene	25.6	1.0	0.48	ug/l	25.0		102	70-135			
1,1,1-Trichloroethane	27.8	1.0	0.30	ug/l	25.0		111	65-135			
1,1,2-Trichloroethane	25.9	1.0	0.30	ug/l	25.0		104	70-125			
Trichloroethene	23.9	1.0	0.26	ug/l	25.0		96	70-125			
Trichlorofluoromethane	31.4	2.0	0.34	ug/l	25.0		126	65-145			
1,2,3-Trichloropropane	26.6	1.0	0.40	ug/l	25.0		106	60-130			
1,3,5-Trimethylbenzene	24.1	1.0	0.26	ug/l	25.0		96	75-125			
1,2,4-Trimethylbenzene	24.1	1.0	0.23	ug/l	25.0		96	75-125			
Vinyl acetate	34.3	6.0	1.0	ug/l	25.0		137	45-145			
Vinyl chloride	29.6	0.50	0.30	ug/l	25.0		119	55-135			
Surrogate: Dibromofluoromethane	*27.6*			*ug/l*	*25.0*		*111*	*80-120*			
Surrogate: Toluene-d8	*25.6*			*ug/l*	*25.0*		*102*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*25.3*			*ug/l*	*25.0*		*101*	*80-120*			

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Project Manager

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Project ID: Boeing C-6 Torrance
1155.002
Report Number: IRA2754

Sampled: 01/29/08
Received: 01/29/08

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8B01005 Extracted: 02/01/08											
Matrix Spike Analyzed: 02/01/2008 (8B01005-MS1)						**Source: IRA2759-16**					
Acetone	34.1	10	4.5	ug/l	25.0	ND	136	20-150			
Benzene	27.4	1.0	0.28	ug/l	25.0	0.910	106	65-125			
Bromobenzene	24.1	1.0	0.27	ug/l	25.0	ND	96	70-125			
Bromochloromethane	26.3	1.0	0.32	ug/l	25.0	ND	105	65-135			
Bromodichloromethane	29.7	1.0	0.30	ug/l	25.0	ND	119	70-135			
Bromoform	20.7	1.0	0.40	ug/l	25.0	ND	83	55-135			
Bromomethane	29.8	1.0	0.42	ug/l	25.0	ND	119	55-145			
2-Butanone (MEK)	26.8	5.0	4.7	ug/l	25.0	ND	107	30-145			
tert-Butylbenzene	24.7	1.0	0.22	ug/l	25.0	ND	99	65-130			
n-Butylbenzene	27.8	1.0	0.37	ug/l	25.0	ND	111	65-135			
sec-Butylbenzene	26.6	1.0	0.25	ug/l	25.0	ND	106	70-125			
Carbon Disulfide	29.0	1.0	0.48	ug/l	25.0	ND	116	40-140			
Carbon tetrachloride	28.4	0.50	0.28	ug/l	25.0	ND	114	65-140			
Chlorobenzene	24.8	1.0	0.36	ug/l	25.0	ND	99	75-125			
Chloroethane	29.4	2.0	0.40	ug/l	25.0	ND	118	55-140			
Chloroform	30.2	1.0	0.33	ug/l	25.0	ND	121	65-135			
Chloromethane	31.8	2.0	0.40	ug/l	25.0	ND	127	45-145			
2-Chlorotoluene	26.1	1.0	0.28	ug/l	25.0	ND	104	65-135			
4-Chlorotoluene	27.2	1.0	0.29	ug/l	25.0	ND	109	70-135			
1,2-Dibromo-3-chloropropane	25.5	2.0	0.97	ug/l	25.0	ND	102	45-145			
Dibromochloromethane	24.5	1.0	0.28	ug/l	25.0	ND	98	65-140			
1,2-Dibromoethane (EDB)	23.8	1.0	0.40	ug/l	25.0	ND	95	70-130			
1,3-Dichlorobenzene	26.6	1.0	0.35	ug/l	25.0	ND	106	75-125			
1,4-Dichlorobenzene	24.6	1.0	0.37	ug/l	25.0	ND	98	75-125			
1,2-Dichlorobenzene	26.6	1.0	0.32	ug/l	25.0	ND	106	75-125			
Dichlorodifluoromethane	38.3	1.0	0.26	ug/l	25.0	ND	153	25-155			
1,1-Dichloroethane	29.5	1.0	0.27	ug/l	25.0	ND	118	65-130			
1,2-Dichloroethane	47.0	0.50	0.28	ug/l	25.0	21.6	101	60-140			
cis-1,2-Dichloroethene	29.8	1.0	0.32	ug/l	25.0	ND	119	65-130			
1,1-Dichloroethene	25.9	1.0	0.42	ug/l	25.0	ND	104	60-130			
trans-1,2-Dichloroethene	30.0	1.0	0.27	ug/l	25.0	ND	120	65-130			
2,2-Dichloropropane	29.3	1.0	0.34	ug/l	25.0	ND	117	60-145			
1,2-Dichloropropane	28.2	1.0	0.35	ug/l	25.0	1.30	108	65-130			
cis-1,3-Dichloropropene	23.3	0.50	0.22	ug/l	25.0	ND	93	70-130			
1,1-Dichloropropene	26.5	1.0	0.28	ug/l	25.0	ND	106	70-135			

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Project Manager

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BOE-C6-0188222

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Avocet Environmental Inc.
16 Technology Drive, Suite 154
Irvine, CA 92618
Attention: Michael Rendina

Project ID: Boeing C-6 Torrance
1155.002
Report Number: IRA2754

Sampled: 01/29/08
Received: 01/29/08

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Batch: 8B01005 Extracted: 02/01/08

Matrix Spike Analyzed: 02/01/2008 (8B01005-MS1) — **Source: IRA2759-16**

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
trans-1,3-Dichloropropene	22.8	0.50	0.32	ug/l	25.0	ND	91	65-135			
Ethylbenzene	27.3	1.0	0.25	ug/l	25.0	ND	109	65-130			
Hexachlorobutadiene	25.6	1.0	0.38	ug/l	25.0	ND	102	60-135			
2-Hexanone	21.0	6.0	2.6	ug/l	25.0	ND	84	25-140			
Isopropylbenzene	28.4	1.0	0.25	ug/l	25.0	ND	114	70-135			
p-Isopropyltoluene	25.5	1.0	0.28	ug/l	25.0	ND	102	65-130			
Methyl-tert-butyl Ether (MTBE)	26.2	1.0	0.32	ug/l	25.0	ND	105	55-145			
Methylene chloride	28.1	1.0	0.95	ug/l	25.0	ND	112	50-135			
4-Methyl-2-pentanone (MIBK)	22.1	5.0	3.5	ug/l	25.0	ND	88	40-140			
n-Propylbenzene	27.8	1.0	0.27	ug/l	25.0	ND	111	70-135			
Styrene	11.1	1.0	0.16	ug/l	25.0	ND	44	50-145			*M2*
1,1,1,2-Tetrachloroethane	26.1	1.0	0.27	ug/l	25.0	ND	104	65-140			
1,1,2,2-Tetrachloroethane	26.3	1.0	0.24	ug/l	25.0	ND	105	55-135			
Tetrachloroethene	27.4	1.0	0.32	ug/l	25.0	4.71	91	65-130			
Toluene	26.7	1.0	0.36	ug/l	25.0	ND	107	70-125			
1,2,3-Trichlorobenzene	25.9	1.0	0.30	ug/l	25.0	ND	104	60-135			
1,2,4-Trichlorobenzene	26.5	1.0	0.48	ug/l	25.0	ND	106	65-135			
1,1,1-Trichloroethane	29.9	1.0	0.30	ug/l	25.0	ND	120	65-140			
1,1,2-Trichloroethane	25.7	1.0	0.30	ug/l	25.0	ND	103	65-130			
Trichloroethene	27.0	1.0	0.26	ug/l	25.0	2.11	99	65-125			
Trichlorofluoromethane	34.1	2.0	0.34	ug/l	25.0	ND	136	60-145			
1,2,3-Trichloropropane	24.6	1.0	0.40	ug/l	25.0	ND	99	55-135			
1,3,5-Trimethylbenzene	25.8	1.0	0.26	ug/l	25.0	ND	103	70-130			
1,2,4-Trimethylbenzene	25.8	1.0	0.23	ug/l	25.0	ND	103	55-135			
Vinyl acetate	16.7	6.0	1.0	ug/l	25.0	ND	67	40-150			
Vinyl chloride	30.2	0.50	0.30	ug/l	25.0	ND	121	45-140			
Surrogate: Dibromofluoromethane	*27.9*			*ug/l*	*25.0*		*111*	*80-120*			
Surrogate: Toluene-d8	*25.9*			*ug/l*	*25.0*		*103*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*25.3*			*ug/l*	*25.0*		*101*	*80-120*			

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Avocet Environmental Inc.
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Attention: Michael Rendina

Project ID: Boeing C-6 Torrance
1155.002
Report Number: IRA2754

Sampled: 01/29/08
Received: 01/29/08

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Batch: 8B01005 Extracted: 02/01/08

Matrix Spike Dup Analyzed: 02/01/2008 (8B01005-MSD1) — **Source: IRA2759-16**

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Acetone	33.8	10	4.5	ug/l	25.0	ND	135	20-150	1	35	
Benzene	26.2	1.0	0.28	ug/l	25.0	0.910	101	65-125	4	20	
Bromobenzene	23.2	1.0	0.27	ug/l	25.0	ND	93	70-125	4	20	
Bromochloromethane	25.2	1.0	0.32	ug/l	25.0	ND	101	65-135	4	25	
Bromodichloromethane	28.1	1.0	0.30	ug/l	25.0	ND	112	70-135	6	20	
Bromoform	21.1	1.0	0.40	ug/l	25.0	ND	84	55-135	2	25	
Bromomethane	28.2	1.0	0.42	ug/l	25.0	ND	113	55-145	5	25	
2-Butanone (MEK)	28.3	5.0	4.7	ug/l	25.0	ND	113	30-145	5	40	
tert-Butylbenzene	23.0	1.0	0.22	ug/l	25.0	ND	92	65-130	7	20	
n-Butylbenzene	26.3	1.0	0.37	ug/l	25.0	ND	105	65-135	6	20	
sec-Butylbenzene	25.0	1.0	0.25	ug/l	25.0	ND	100	70-125	6	20	
Carbon Disulfide	27.7	1.0	0.48	ug/l	25.0	ND	111	40-140	4	20	
Carbon tetrachloride	26.7	0.50	0.28	ug/l	25.0	ND	107	65-140	6	25	
Chlorobenzene	23.1	1.0	0.36	ug/l	25.0	ND	92	75-125	7	20	
Chloroethane	29.1	2.0	0.40	ug/l	25.0	ND	116	55-140	1	25	
Chloroform	28.1	1.0	0.33	ug/l	25.0	ND	112	65-135	7	20	
Chloromethane	31.6	2.0	0.40	ug/l	25.0	ND	127	45-145	0	25	
2-Chlorotoluene	24.1	1.0	0.28	ug/l	25.0	ND	96	65-135	8	20	
4-Chlorotoluene	25.6	1.0	0.29	ug/l	25.0	ND	102	70-135	6	20	
1,2-Dibromo-3-chloropropane	29.4	2.0	0.97	ug/l	25.0	ND	118	45-145	14	30	
Dibromochloromethane	23.5	1.0	0.28	ug/l	25.0	ND	94	65-140	4	25	
1,2-Dibromoethane (EDB)	24.4	1.0	0.40	ug/l	25.0	ND	98	70-130	3	25	
1,3-Dichlorobenzene	25.1	1.0	0.35	ug/l	25.0	ND	100	75-125	6	20	
1,4-Dichlorobenzene	23.3	1.0	0.37	ug/l	25.0	ND	93	75-125	5	20	
1,2-Dichlorobenzene	25.9	1.0	0.32	ug/l	25.0	ND	104	75-125	2	20	
Dichlorodifluoromethane	36.1	1.0	0.26	ug/l	25.0	ND	144	25-155	6	30	
1,1-Dichloroethane	27.5	1.0	0.27	ug/l	25.0	ND	110	65-130	7	20	
1,2-Dichloroethane	45.2	0.50	0.28	ug/l	25.0	21.6	94	60-140	4	20	
cis-1,2-Dichloroethene	28.4	1.0	0.32	ug/l	25.0	ND	114	65-130	5	20	
1,1-Dichloroethene	24.9	1.0	0.42	ug/l	25.0	ND	100	60-130	4	20	
trans-1,2-Dichloroethene	28.5	1.0	0.27	ug/l	25.0	ND	114	65-130	5	20	
2,2-Dichloropropane	26.2	1.0	0.34	ug/l	25.0	ND	105	60-145	11	25	
1,2-Dichloropropane	27.5	1.0	0.35	ug/l	25.0	1.30	105	65-130	3	20	
cis-1,3-Dichloropropene	22.5	0.50	0.22	ug/l	25.0	ND	90	70-130	4	20	
1,1-Dichloropropene	24.7	1.0	0.28	ug/l	25.0	ND	99	70-135	7	20	

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Avocet Environmental Inc.
16 Technology Drive, Suite 154
Irvine, CA 92618
Attention: Michael Rendina

Project ID: Boeing C-6 Torrance
1155.002
Report Number: IRA2754

Sampled: 01/29/08
Received: 01/29/08

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8B01005 Extracted: 02/01/08											
Matrix Spike Dup Analyzed: 02/01/2008 (8B01005-MSD1)						**Source: IRA2759-16**					
trans-1,3-Dichloropropene	22.6	0.50	0.32	ug/l	25.0	ND	91	65-135	1	25	
Ethylbenzene	25.3	1.0	0.25	ug/l	25.0	ND	101	65-130	8	20	
Hexachlorobutadiene	24.4	1.0	0.38	ug/l	25.0	ND	98	60-135	5	20	
2-Hexanone	24.1	6.0	2.6	ug/l	25.0	ND	97	25-140	14	35	
Isopropylbenzene	26.5	1.0	0.25	ug/l	25.0	ND	106	70-135	7	20	
p-Isopropyltoluene	23.8	1.0	0.28	ug/l	25.0	ND	95	65-130	7	20	
Methyl-tert-butyl Ether (MTBE)	26.5	1.0	0.32	ug/l	25.0	ND	106	55-145	1	25	
Methylene chloride	27.1	1.0	0.95	ug/l	25.0	ND	108	50-135	4	20	
4-Methyl-2-pentanone (MIBK)	24.1	5.0	3.5	ug/l	25.0	ND	97	40-140	9	35	
n-Propylbenzene	25.9	1.0	0.27	ug/l	25.0	ND	103	70-135	7	20	
Styrene	9.92	1.0	0.16	ug/l	25.0	ND	40	50-145	11	30	*M2*
1,1,1,2-Tetrachloroethane	24.7	1.0	0.27	ug/l	25.0	ND	99	65-140	6	20	
1,1,2,2-Tetrachloroethane	27.4	1.0	0.24	ug/l	25.0	ND	110	55-135	4	30	
Tetrachloroethene	25.2	1.0	0.32	ug/l	25.0	4.71	82	65-130	8	20	
Toluene	25.2	1.0	0.36	ug/l	25.0	ND	101	70-125	6	20	
1,2,3-Trichlorobenzene	25.8	1.0	0.30	ug/l	25.0	ND	103	60-135	1	20	
1,2,4-Trichlorobenzene	26.2	1.0	0.48	ug/l	25.0	ND	105	65-135	1	20	
1,1,1-Trichloroethane	27.6	1.0	0.30	ug/l	25.0	ND	110	65-140	8	20	
1,1,2-Trichloroethane	25.6	1.0	0.30	ug/l	25.0	ND	102	65-130	0	25	
Trichloroethene	25.5	1.0	0.26	ug/l	25.0	2.11	94	65-125	6	20	
Trichlorofluoromethane	31.0	2.0	0.34	ug/l	25.0	ND	124	60-145	9	25	
1,2,3-Trichloropropane	25.3	1.0	0.40	ug/l	25.0	ND	101	55-135	3	30	
1,3,5-Trimethylbenzene	23.9	1.0	0.26	ug/l	25.0	ND	96	70-130	8	20	
1,2,4-Trimethylbenzene	23.8	1.0	0.23	ug/l	25.0	ND	95	55-135	8	25	
Vinyl acetate	17.3	6.0	1.0	ug/l	25.0	ND	69	40-150	3	30	
Vinyl chloride	28.9	0.50	0.30	ug/l	25.0	ND	115	45-140	4	30	
Surrogate: Dibromofluoromethane	*27.5*			*ug/l*	*25.0*		*110*	*80-120*			
Surrogate: Toluene-d8	*25.4*			*ug/l*	*25.0*		*102*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*24.8*			*ug/l*	*25.0*		*99*	*80-120*			

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Project Manager

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Avocet Environmental Inc.
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Attention: Michael Rendina

Project ID: Boeing C-6 Torrance
1155.002
Report Number: IRA2754

Sampled: 01/29/08
Received: 01/29/08

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8A29048 Extracted: 01/29/08											
Blank Analyzed: 01/29/2008 (8A29048-BLK1)											
Chloride	ND	0.50	0.25	mg/l							
Nitrate-NO3	ND	0.50	0.25	mg/l							
Nitrite-NO2	ND	0.50	0.30	mg/l							
Sulfate	ND	0.50	0.20	mg/l							
LCS Analyzed: 01/29/2008 (8A29048-BS1)											
Chloride	4.96	0.50	0.25	mg/l	5.00		99	90-110			
Nitrate-NO3	4.67	0.50	0.25	mg/l	5.00		93	90-110			
Nitrite-NO2	4.73	0.50	0.30	mg/l	5.00		95	90-110			
Sulfate	9.89	0.50	0.20	mg/l	10.0		99	90-110			
Matrix Spike Analyzed: 01/29/2008 (8A29048-MS1)						**Source: IRA2619-01**					
Chloride	10.9	0.50	0.25	mg/l	5.00	14.8	-79	80-120			*M2*
Nitrate-NO3	5.42	0.50	0.25	mg/l	5.00	ND	108	80-120			
Nitrite-NO2	5.62	0.50	0.30	mg/l	5.00	ND	112	80-120			
Sulfate	9.94	0.50	0.20	mg/l	10.0	0.263	97	80-120			
Matrix Spike Analyzed: 01/29/2008 (8A29048-MS2)						**Source: IRA2754-04**					
Chloride	13.6	0.50	0.25	mg/l	5.00	8.34	106	80-120			
Nitrate-NO3	6.32	0.50	0.25	mg/l	5.00	0.587	115	80-120			
Nitrite-NO2	5.92	0.50	0.30	mg/l	5.00	ND	118	80-120			
Sulfate	15.2	0.50	0.20	mg/l	10.0	4.41	108	80-120			
Matrix Spike Dup Analyzed: 01/29/2008 (8A29048-MSD1)						**Source: IRA2619-01**					
Chloride	11.6	0.50	0.25	mg/l	5.00	14.8	-65	80-120	6	20	*M2*
Nitrate-NO3	5.21	0.50	0.25	mg/l	5.00	ND	104	80-120	4	20	
Nitrite-NO2	5.02	0.50	0.30	mg/l	5.00	ND	100	80-120	11	20	
Sulfate	10.0	0.50	0.20	mg/l	10.0	0.263	97	80-120	1	20	

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Avocet Environmental Inc.
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Project ID: Boeing C-6 Torrance
1155.002
Report Number: IRA2754

Sampled: 01/29/08
Received: 01/29/08

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8B04088 Extracted: 02/04/08											
Blank Analyzed: 02/04/2008 (8B04088-BLK1)											
Total Dissolved Solids	ND	10	10	mg/l							
LCS Analyzed: 02/04/2008 (8B04088-BS1)											
Total Dissolved Solids	990	10	10	mg/l	1000		99	90-110			
Duplicate Analyzed: 02/04/2008 (8B04088-DUP1)						Source: IRA2758-16					
Total Dissolved Solids	1300	10	10	mg/l		1280			2	10	
Batch: 8B05073 Extracted: 02/05/08											
Blank Analyzed: 02/05/2008 (8B05073-BLK1)											
Alkalinity as CaCO3	ND	2.0	2.0	mg/l							
Duplicate Analyzed: 02/05/2008 (8B05073-DUP1)						Source: IRA2637-03					
Alkalinity as CaCO3	220	2.0	2.0	mg/l		216			2	20	
Reference Analyzed: 02/05/2008 (8B05073-SRM1)											
Alkalinity as CaCO3	268	2.0	2.0	mg/l	283		95	90-110			

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Project ID: Boeing C-6 Torrance
1155.002
Report Number: IRA2754

Sampled: 01/29/08
Received: 01/29/08

METHOD BLANK/QC DATA

TOTAL ORGANIC CARBON (EPA 9060A MOD.)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8B08076 Extracted: 02/08/08											
Blank Analyzed: 02/08/2008 (8B08076-BLK1)											
Total Organic Carbon	ND	1.0	0.50	mg/l							
LCS Analyzed: 02/08/2008 (8B08076-BS1)											
Total Organic Carbon	10.6	1.0	0.50	mg/l	10.0		106	90-110			
Matrix Spike Analyzed: 02/08/2008 (8B08076-MS1)						Source: IRA2455-02					
Total Organic Carbon	11.2	1.0	0.50	mg/l	5.00	6.56	93	80-120			
Matrix Spike Dup Analyzed: 02/08/2008 (8B08076-MSD1)						Source: IRA2455-02					
Total Organic Carbon	10.8	1.0	0.50	mg/l	5.00	6.56	85	80-120	3	20	

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Project ID: Boeing C-6 Torrance
1155.002
Report Number: IRA2754

Sampled: 01/29/08
Received: 01/29/08

METHOD BLANK/QC DATA

Volatile Fatty Acids

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: M080212014 Extracted: 02/05/08											
LCS Analyzed: 02/08/2008 (M080212014-LCS)					Source:						
Acetic Acid	1.7	0.07	N/A	mg/L	2		85	70-130			
Butyric Acid	1.7	0.07	N/A	mg/L	2		85	70-130			
Pentanoic Acid	1.5	0.07	N/A	mg/L	2		75	70-130			
Hexanoic Acid	1.6	0.1	N/A	mg/L	2		80	70-130			
Propionic Acid	1.7	0.07	N/A	mg/L	2		85	70-130			
i-Hexanoic Acid	1.5	0.1	N/A	mg/L	2		75	70-130			
Pyruvic Acid	1.7	0.07	N/A	mg/L	2		85	70-130			
i-Pentanoic Acid	1.6	0.07	N/A	mg/L	2		80	70-130			
Lactic Acid and HIBA	2	0.1	N/A	mg/L	2		100	70-130			
Blank Analyzed: 02/08/2008 (M080212014-MB)					Source:						
Acetic Acid	ND	0.07	N/A	mg/L				-			U
Butyric Acid	ND	0.07	N/A	mg/L				-			U
Pentanoic Acid	ND	0.07	N/A	mg/L				-			U
Hexanoic Acid	ND	0.1	N/A	mg/L				-			U
Propionic Acid	ND	0.07	N/A	mg/L				-			U
i-Hexanoic Acid	ND	0.1	N/A	mg/L				-			U
Pyruvic Acid	ND	0.07	N/A	mg/L				-			U
i-Pentanoic Acid	ND	0.07	N/A	mg/L				-			U
Lactic Acid and HIBA	ND	0.1	N/A	mg/L				-			U
Matrix Spike Analyzed: 02/08/2008 (M080212014-MS)					Source:						
Acetic Acid	1.6	0.07	N/A	mg/L	2		85	70-130			
Butyric Acid	1.6	0.07	N/A	mg/L	2		85	70-130			
Pentanoic Acid	1.5	0.07	N/A	mg/L	2		75	70-130			
Hexanoic Acid	1.4	0.1	N/A	mg/L	2		80	70-130			
Propionic Acid	1.6	0.07	N/A	mg/L	2		85	70-130			
i-Hexanoic Acid	1.4	0.1	N/A	mg/L	2		75	70-130			
Pyruvic Acid	1.3	0.07	N/A	mg/L	2		85	70-130			
i-Pentanoic Acid	1.6	0.07	N/A	mg/L	2		80	70-130			
Lactic Acid and HIBA	1.6	0.1	N/A	mg/L	2		100	70-130			

TestAmerica Irvine

Trupti Mistry
Project Manager

The results pertain only to the samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from TestAmerica.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
17461 Derian Avenue. Suite 100, Irvine, CA 92614 (949) 261-1022 Fax:(949) 260-3297

Avocet Environmental Inc.
16 Technology Drive, Suite 154
Irvine, CA 92618
Attention: Michael Rendina

Project ID: Boeing C-6 Torrance
1155.002
Report Number: IRA2754

Sampled: 01/29/08
Received: 01/29/08

METHOD BLANK/QC DATA

Volatile Fatty Acids

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: M080212014 Extracted: 02/05/08											
Matrix Spike Dup Analyzed: 02/08/2008 (M080212014-MSD)					Source:						
Acetic Acid	1.6	0.07	N/A	mg/L	2		85	70-130	0	30	
Butyric Acid	1.6	0.07	N/A	mg/L	2		85	70-130	0	30	
Pentanoic Acid	1.5	0.07	N/A	mg/L	2		75	70-130	0	30	
Hexanoic Acid	1.4	0.1	N/A	mg/L	2		80	70-130	0	30	
Propionic Acid	1.6	0.07	N/A	mg/L	2		85	70-130	0	30	
i-Hexanoic Acid	1.4	0.1	N/A	mg/L	2		75	70-130	0	30	
Pyruvic Acid	1.2	0.07	N/A	mg/L	2		85	70-130	8	30	
i-Pentanoic Acid	1.5	0.07	N/A	mg/L	2		80	70-130	6	30	
Lactic Acid and HIBA	1.6	0.1	N/A	mg/L	2		100	70-130	0	30	
Batch: M080212015 Extracted: 02/11/08											
LCS Analyzed: 02/11/2008 (M080212015-LCS1)					Source:						
Pyruvic Acid	1.5	0.07	N/A	mg/L	2		75	70-130			
Acetic Acid	1.6	0.07	N/A	mg/L	2		80	70-130			
i-Pentanoic Acid	1.5	0.07	N/A	mg/L	2		75	70-130			
Lactic Acid and HIBA	1.8	0.1	N/A	mg/L	2		90	70-130			
Propionic Acid	1.6	0.07	N/A	mg/L	2		80	70-130			
Butyric Acid	1.6	0.07	N/A	mg/L	2		80	70-130			
Blank Analyzed: 02/11/2008 (M080212015-MB1)					Source:						
Pyruvic Acid	ND	0.07	N/A	mg/L				-			U
Acetic Acid	ND	0.07	N/A	mg/L				-			U
i-Pentanoic Acid	ND	0.07	N/A	mg/L				-			U
Lactic Acid and HIBA	ND	0.1	N/A	mg/L				-			U
Propionic Acid	ND	0.07	N/A	mg/L				-			U
Butyric Acid	ND	0.07	N/A	mg/L				-			U

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Trupti Mistry
Project Manager

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BOE-C6-0188226

Avocet Environmental Inc.
16 Technology Drive, Suite 154
Irvine, CA 92618
Attention: Michael Rendina

Project ID: Boeing C-6 Torrance
1155.002
Report Number: IRA2754

Sampled: 01/29/08
Received: 01/29/08

METHOD BLANK/QC DATA

qPCR TaqMan assay

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 1 Extracted: 02/04/08											
Blank Analyzed: 02/13/2008 (bvcA negative)						**Source:**					
vcrA	ND	50	N/A	ene copies/L grounc				-			
Matrix spike Analyzed: 02/13/2008 (bvcA positive)						**Source: vcrA positive**					
vcrA	Positive	50	N/A	ene copies/L grounc				-			
Blank Analyzed: 02/04/2008 (tceA negative)						**Source:**					
tceA	ND	50	N/A	ene copies/L grounc				-			
Matrix spike Analyzed: 02/04/2008 (tceA positive)						**Source: tceA positive**					
tceA	Positive	50	N/A	ene copies/L grounc				-			
Blank Analyzed: 02/04/2008 (vcrA negative)						**Source:**					
vcrA	ND	50	N/A	ene copies/L grounc				-			
Matrix spike Analyzed: 02/04/2008 (vcrA positive)						**Source: vcrA positive**					
vcrA	Positive	50	N/A	ene copies/L grounc				-			

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Trupti Mistry
Project Manager

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
17461 Derian Avenue. Suite 100, Irvine, CA 92614 (949) 261-1022 Fax:(949) 260-3297

Avocet Environmental Inc.
16 Technology Drive, Suite 154
Irvine, CA 92618
Attention: Michael Rendina

Project ID: Boeing C-6 Torrance
1155.002
Report Number: IRA2754

Sampled: 01/29/08
Received: 01/29/08

METHOD BLANK/QC DATA

RSK175 Dissolved Gases in Water

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 080131GC8A Extracted: 01/31/08											
LCS Dup Analyzed: 01/31/2008 (080131GC8ABD)						**Source: 080131GC8ABS**					
Methane	629	1.0	0.39	ug/L	654	0	96	70-130	2	30	
Ethane	1159	2.0	0.50	ug/L	1227	0	94	70-130	2	30	
Ethylene	1020	3.0	0.33	ug/L	1145	0	89	70-130	4	30	
LCS Analyzed: 01/31/2008 (080131GC8ABS)						**Source:**					
Methane	619	1.0	0.39	ug/L	654	0	95	70-130			
Ethane	1140	2.0	0.50	ug/L	1227	0	93	70-130			
Ethylene	984	3.0	0.33	ug/L	1145	0	86	70-130			
Blank Analyzed: 01/31/2008 (080131GC8ALB)						**Source:**					
Methane	ND	1.0	0.39	ug/L				-			
Ethane	ND	2.0	0.50	ug/L				-			
Ethylene	ND	3.0	0.33	ug/L				-			

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Trupti Mistry
Project Manager

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BOE-C6-0188227

Avocet Environmental Inc.
16 Technology Drive, Suite 154
Irvine, CA 92618
Attention: Michael Rendina

Project ID: Boeing C-6 Torrance
1155.002
Report Number: IRA2754

Sampled: 01/29/08
Received: 01/29/08

DATA QUALIFIERS AND DEFINITIONS

B	Analyte was detected in the associated Method Blank.
C	Calibration Verification recovery was above the method control limit for this analyte. Analyte not detected, data not impacted.
J	estimated value
Ja	Estimated value. Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). The user of this data should be aware that this data is of limited reliability.
L	Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was above the acceptance limits. Analyte not detected, data not impacted.
M	Recovery/RPD poor for MS/MSD, SAMP/DUP
M1	The MS and/or MSD were above the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
M2	The MS and/or MSD were below the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
M7	The MS and/or MSD were above the acceptance limits. See Blank Spike (LCS).
R	The RPD exceeded the method control limit due to sample matrix effects. The individual analyte QA/QC recoveries, however, were within acceptance limits.
R-3	The RPD exceeded the acceptance limit due to sample matrix effects.
RL1	Reporting limit raised due to sample matrix effects.
U	Non detect
UM	[Undefined]
ND	Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
RPD	Relative Percent Difference

ADDITIONAL COMMENTS

For 8260 analyses:

Due to the high water solubility of alcohols and ketones, the calibration criteria for these compounds is <30% RSD. The average % RSD of all compounds in the calibration is 15%, in accordance with EPA methods.

TestAmerica Irvine

Trupti Mistry
Project Manager

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
17461 Derian Avenue. Suite 100, Irvine, CA 92614 (949) 261-1022 Fax:(949) 260-3297

Avocet Environmental Inc.
16 Technology Drive, Suite 154
Irvine, CA 92618
Attention: Michael Rendina

Project ID: Boeing C-6 Torrance
1155.002
Report Number: IRA2754

Sampled: 01/29/08
Received: 01/29/08

Certification Summary

TestAmerica Irvine

Method	Matrix	Nelac	California
EPA 160.1	Water	X	X
EPA 300.0	Water	X	X
EPA 310.1	Water	X	X
EPA 8260B	Water	X	X
EPA 9060A MOD.	Water		X

Nevada and NELAP provide analyte specific accreditations. Analyte specific information for TestAmerica may be obtained by contacting the laboratory or visiting our website at www.testamericainc.com

Subcontracted Laboratories

Air Technology Laboratories, Inc.
Method Performed: RSK-175
Samples: IRA2754-03, IRA2754-04, IRA2754-05, IRA2754-07

Idaho State University - Dept. of Bio Sci - MRCF
650 Memorial Drive - Pocatello, ID 83209
Analysis Performed: Outside Analysis
Samples: IRA2754-03, IRA2754-04, IRA2754-05, IRA2754-07

ISU Molecular
Method Performed: PCR
Samples: IRA2754-03, IRA2754-04, IRA2754-05, IRA2754-07

Method Performed: qPCR TaqMan assay
Samples: IRA2754-03, IRA2754-04, IRA2754-05, IRA2754-07

Microseeps-SUB
220 William Pitt Way - Pittsburgh, PA 15238
Method Performed: AM23G
Samples: IRA2754-03, IRA2754-04, IRA2754-05, IRA2754-07

TestAmerica Irvine

Trupti Mistry
Project Manager

The results pertain only to the samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from TestAmerica.

BOE-C6-0188228

IRA2754

AVOCET ENVIRONMENTAL, INC.

11 Technology Drive, Suite 1?? Irvine, California 92618-2327 TEL (949) 296-0977 FAX (949) 296-0978

Sheet 1 of 1

Boeing CoC No. AVC20080129A

CHAIN OF CUSTODY RECORD

Project Information:

Site Name	Boeing Former C-6 Facility - Building 1/36
Site Address	Los Angeles, CA
Project No.	1155.002
Project Manager	Michael Rendina
Sampled By	Brian Barsumian
Turn-Around-Time	Standart TAT, 48 hr holding time for NO_3

Analyses

48HR HT for NO_3

Please forward VFA & qPCR analyses to identified laboratories ASAP.

Sample Identification	Sample Date	Sample Time	Matrix	No. of Cntnrs.	Lab I.D. Number	VOCs inc. fuel oxys (EPA 8260B)	TOC (EPA 9060)	VFA by IC Method 8M23G (Microseeps, Inc. Pittsburgh, PA)	Dissolved Gases (Ethane, Ethene, and Methane by RSK 175)	Dissolved Minerals (sulfate, Nitrate, nitrite, and chloride) by EPA Method 300	Total Alkalinity by EPA Method 310	Quantitative Polymerase Chain Reaction (qPCR) analysis for DHC 16S rRNA gene and functional genes tceA, bvcA, and vcrA (North Wind, Inc. Pocatello, ID)	Total Dissolved Solids (TDS) EPA160.1	Comments
TB_AV20080129_0001	-	-	Water	3		X								
EB_AV20080129_0001	01/29/08	1441	Water	3		X								
AW0074UB_WG20080129_01	01/29/08	1017	Water	12		X	X	X	X	X	X	X	X	
~~AW0075UB_WG20080129_01~~	~~01/29/08~~		~~Water~~	~~12~~		~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~ 33
~~AW0076UB_WG20080129_01~~	~~01/29/08~~		~~Water~~	~~12~~		~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~ 33
~~AW0077UB_WG20080129_01~~	~~01/29/08~~		~~Water~~	~~12~~		~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~ 33
WCC_06S_WG20080129_01	01/29/08	0851	Water	12		X	X	X	X	X	X	X	X	
EWB002_WG20080129_01	01/29/08	1307	Water	12		X	X	X	X	X	X	X	X	
EWB002_WG20080129_02	01/29/08	1307	Water	3		X								
AW0073C_WG20080129_01	01/29/08	1153	Water	12		X	X	X	X	X	X	X	X	

Relinquished by		Company	Received by		Company
Printed Name: Brian Barsumian	Date: 1/29/08	Avocet Environmental, Inc.	Printed Name: Darren Brandner	Date: 1/29/08	
Signature: Brian Barsumian	Time: 1457		Signature: [signature]	Time: 1457	
Printed Name: Darren Brandner	Date: 1/29/08	C1	Printed Name: [signature]	Date: 1/29/08	
Signature: [signature]	Time: 1542		Signature: [signature]	Time: 1542	
Printed Name:	Date:		Printed Name:	Date:	
Signature:	Time:		Signature:	Time:	

Sample Receipt

Total Containers

Temperature °C 13.1/11.1 °F

COC Seal (Y/N/N/A)

Billing Information

Bill To:

Special Instructions

A278

AC 1625 1/30/08

S:\Projects\1155 Boeing Former C-6 Facility\Groundwater Monitoring\gis sampling into 2nd 08 monitoring\COC_012908.xls

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Page 1 of 3
A8013002

AirTECHNOLOGY Laboratories, Inc.

February 6, 2008

nelac
FL Cert #E87847/LA Cert #04140
EPA Method TO14A/TO15
EPA Method TO3
RSK-175
EPA Method 25C/3C

TestAmerica
ATTN: Trupti Mistry
17461 Derian Ave., Suite 100
Irvine, CA 92614

LABORATORY TEST RESULTS

Project Reference: IRA2754
Lab Number: A8013002-01/04

Enclosed are results for sample(s) received 1/30/08 by Air Technology Laboratories. Analyses were performed according to specifications on the chain of custody provided with the sample(s).

Report Narrative:

- Sample analyses were performed within method performance criteria and meet all requirements of the NELAC Standards.
- All results are reported without qualifications.

ATL appreciates the opportunity to provide testing services to your company. If you have any questions regarding these results, please call me at (626) 964-4032.

Sincerely,

Mark Johnson
Operations Manager
MJohnson@AirTechLabs.com

Enclosures

Note: The cover letter is an integral part of this analytical report.

18501 E. Gale Avenue, Suite 130 ♦ City of Industry, CA 91748 ♦ Ph: (626) 964-4032 ♦ Fx: (626) 964-5832

SUBCONTRACT ORDER

TestAmerica Irvine

IRA2754

A8013002-01/04

SENDING LABORATORY:

TestAmerica Irvine
17461 Derian Avenue. Suite 100
Irvine, CA 92614
Phone: (949) 261-1022
Fax: (949) 260-3297
Project Manager: Trupti Mistry

RECEIVING LABORATORY:

Air Technology Lab - SUB
18501 E. Gale Avenue, Suite #130
City of Industry, CA 91748
Phone :(626) 964-4032
Fax: (626) 964-5832
Project Location: California
Receipt Temperature: 3 °C Ice: (Y) N

Analysis	Units	Due	Expires	Comments
Sample ID: IRA2754-03	**Water**		Sampled: 01/29/08 10:17	-01
Diss. Gasses-OUT	mg/l	02/12/08	02/12/08 10:17	RSK175,sub=ATL,C2H4,C2H6,CH4,El mnt EDD,BOE 9/05
Containers Supplied:				
40 mL VOA w/HCL + rubber septa (D)	40 mL VOA w/HCL + rubber septa (E)	40 mL VOA w/HCL + rubber septa (F)		
Sample ID: IRA2754-04	**Water**		Sampled: 01/29/08 08:51	-02
Diss. Gasses-OUT	mg/l	02/12/08	02/12/08 08:51	RSK175,sub=ATL,C2H4,C2H6,CH4,El mnt EDD,BOE 9/05
Containers Supplied:				
40 mL VOA w/HCL + rubber septa (D)	40 mL VOA w/HCL + rubber septa (E)	40 mL VOA w/HCL + rubber septa (F)		
Sample ID: IRA2754-05	**Water**		Sampled: 01/29/08 13:07	-03
Diss. Gasses-OUT	mg/l	02/12/08	02/12/08 13:07	RSK175,sub=ATL,C2H4,C2H6,CH4,El mnt EDD,BOE 9/05
Containers Supplied:				
40 mL VOA w/HCL + rubber septa (D)	40 mL VOA w/HCL + rubber septa (E)	40 mL VOA w/HCL + rubber septa (F)		
Sample ID: IRA2754-07	**Water**		Sampled: 01/29/08 11:53	-04
Diss. Gasses-OUT	mg/l	02/12/08	02/12/08 11:53	RSK175,sub=ATL,C2H4,C2H6,CH4,El mnt EDD,BOE 9/05
Containers Supplied:				
40 mL VOA w/HCL + rubber septa (D)	40 mL VOA w/HCL + rubber septa (E)	40 mL VOA w/HCL + rubber septa (F)		

Released By	Date/Time	Received By	Date/Time
	1/30/8 905		1/30/8 905
	1/30/8 1005		1/30/08 1005

Client: TestAmerica
Attn: Trupti Mistry

Client's Project: IRA2754
Date Received: 1/30/2008
Matrix: Water
Units: ug/L

Dissolved Gases by EPA Procedure RSKSOP-175

Lab No.:		A8013002-01		A8013002-02		A8013002-03		A8013002-04			
Client Sample I.D.:		IRA2754-03		IRA2754-04		IRA2754-05		IRA2754-07			
Date Sampled:		1/29/2008		1/29/2008		1/29/2008		1/29/2008			
Date Analyzed:		1/31/2008		1/31/2008		1/31/2008		1/31/2008			
Analyst Initials:		DT		DT		DT		DT			
Data File:		31jan011		31jan012		31jan013		31jan014			
QC Batch:		080131GC8A1		080131GC8A1		080131GC8A1		080131GC8A1			
Dilution Factor:		1.0		1.0		1.0		1.0			
ANALYTE	POQ	RL	Results	RL	Results	RL	Results	RL	Results		
Methane	1.0	1.0	12	1.0	ND	1.0	570	1.0	140		
Ethane	2.0	2.0	ND	2.0	ND	2.0	ND	2.0	ND		
Ethylene	3.0	3.0	ND	3.0	ND	3.0	7.5	3.0	ND		

PQL = Practical Quantitation Limit
ND = Not Detected (Below RL)
RL = PQL X Dilution Factor

Reviewed/Approved By: Mark J. Johnson, Operations Manager Date: 2-6-08

The cover letter is an integral part of this analytical report.

BOE-C6-0188230

QC Batch No.: 080131GC8A1
Matrix: Water
Units: ug/L

QC for Dissolved Gases by EPA Procedure RSKSOP-175

Lab No.:		Method Blank		LCS		LCSD			
Date Analyzed:		01/31/08		01/31/08		01/31/08			
Analyst Initials:		DT		DT		DT			
Datafile:		31jan003		31jan001		31jan002			
Dilution Factor:		1.0		1.0		1.0			
ANALYTE	PQL	RL	Results	% Rec.	Criteria	% Rec.	Criteria	%RPD	Criteria
Methane	1.0	1.0	ND	95	70-130%	96	70-130%	1.6	<30
Ethane	2.0	2.0	ND	93	70-130%	94	70-130%	1.6	<30
Ethylene	3.0	3.0	ND	86	70-130%	89	70-130%	3.7	<30

PQL = Practical Quantitation Limit
ND = Not Detected (Below RL).
RL = PQL X Dilution Factor

Reviewed/Approved By: Mark J. Johnson
Operations Manager

Date: 2-6-08

The cover letter is an integral part of this analytical report.

AIrTECHNOLOGY Laboratories, Inc.
18501 E. Gale Avenue, Suite 130 ♦ City of Industry, CA 91748 ♦ Ph: (626) 964-4032 ♦ Fx: (626) 964-5832

microseeps
from insight comes solutions

Client Name: Test America
Contact: Trupti Mistry
Address: 17461 Derian Ave
Suite 100
Irvine, CA 92614

Page: Page 1 of 9
Lab Proj #: P0802014
Report Date: 02/13/08
Client Proj Name: IRA2754
Client Proj #: IRA2754

Laboratory Results

Total pages in data package: 48

Lab Sample #	Client Sample ID
P0802014-01	IRA2754-03
P0802014-02	IRA2754-04
P0802014-03	IRA2754-05
P0802014-04	IRA2754-07

Microseeps test results meet all the requirements of the NELAC standards

Approved By: Debbie Hallo Date: 2-13-08

Project Manager: Debbie Hallo

The analytical results reported here are reliable and usable to the precision expressed in this report. As required by some regulating authorities, a full discussion of the uncertainty in our analytical results can be obtained at our web site or through customer service. Unless otherwise specified, all results are reported on a wet weight basis.

As a valued client we would appreciate your comments on our service
Please call customer service at (412)826-5245 or email customerservice@microseeps.com

220 William Pitt Way • Pittsburgh, PA 15238 • Tel 412-826-5245 • Fax 412-826-3433
website www.microseeps.com email info@microseeps.com

BOE-C6-0188231

Client Name: Test America
Contact: Trupti Mistry
Address: 17461 Derian Ave
Suite 100
Irvine, CA 92614

Page: Page 2 of 9
Lab Proj #: P0802014
Report Date: 02/13/08
Client Proj Name: IRA2754
Client Proj #: IRA2754

Case Narrative: The percent recoveries for the MS/MSD analyses for lactic and pyruvic acids were outside of control limits. The RPD and all other QC analyses were acceptable.

Data Qualifiers: J - estimated value, U - Non detect, R - Poor surrogate recovery, M - Recovery/RPD poor for MS/MSD, SAMP/DUP, B - detected in blank, S - field sample as received did not meet NELAC sample acceptance criteria, L - Subcontracted Lab used, N - NELAC certified analysis

Client Name: Test America
Contact: Trupti Mistry
Address: 17461 Derian Ave
Suite 100
Irvine, CA 92614

Page: Page 3 of 9
Lab Proj #: P0802014
Report Date: 02/13/08
Client Proj Name: IRA2754
Client Proj #: IRA2754

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
IRA2754-03	Water	P0802014-01	29 Jan. 07 10:17	01 Feb. 08 11:53

Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	By
SemiVolatiles							
N Acetic Acid	J	0.06	0.07	mg/L	AM23G	2/11/08	jb
N Butyric Acid	U	< 0.07	0.07	mg/L	AM23G	2/11/08	jb
N Hexanoic Acid	U	< 0.10	0.1	mg/L	AM23G	2/11/08	jb
N i-Hexanoic Acid	U	< 0.10	0.1	mg/L	AM23G	2/11/08	jb
N i-Pentanoic Acid	U	< 0.07	0.07	mg/L	AM23G	2/11/08	jb
N Lactic Acid and HIBA	M	0.22	0.1	mg/L	AM23G	2/11/08	jb
N Pentanoic Acid	U	< 0.07	0.07	mg/L	AM23G	2/11/08	jb
N Propionic Acid	U	< 0.07	0.07	mg/L	AM23G	2/11/08	jb
N Pyruvic Acid	UM	< 0.07	0.07	mg/L	AM23G	2/11/08	jb

Data Qualifiers: J - estimated value, U - Non detect, R - Poor surrogate recovery, M - Recovery/RPD poor for MS/MSD, SAMP/DUP, B - detected in blank, S - field sample as received did not meet NELAC sample acceptance criteria, L - Subcontracted Lab used, N - NELAC certified analysis

BOE-C6-0188232

Client Name: Test America
Contact: Trupti Mistry
Address: 17461 Derian Ave
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Irvine, CA 92614

Page: Page 4 of 9
Lab Proj #: P0802014
Report Date: 02/13/08
Client Proj Name: IRA2754
Client Proj #: IRA2754

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
IRA2754-04	Water	P0802014-02	29 Jan. 07 8:51	01 Feb. 08 11:53

Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	By
SemiVolatiles							
N Acetic Acid	U	< 0.07	0.07	mg/L	AM23G	2/8/08	jb
N Butyric Acid	U	< 0.07	0.07	mg/L	AM23G	2/8/08	jb
N Hexanoic Acid	U	< 0.10	0.1	mg/L	AM23G	2/8/08	jb
N i-Hexanoic Acid	U	< 0.10	0.1	mg/L	AM23G	2/8/08	jb
N i-Pentanoic Acid	U	< 0.07	0.07	mg/L	AM23G	2/8/08	jb
N Lactic Acid and HIBA	UM	< 0.10	0.1	mg/L	AM23G	2/8/08	jb
N Pentanoic Acid	U	< 0.07	0.07	mg/L	AM23G	2/8/08	jb
N Propionic Acid	U	< 0.07	0.07	mg/L	AM23G	2/8/08	jb
N Pyruvic Acid	UM	< 0.07	0.07	mg/L	AM23G	2/8/08	jb

Data Qualifiers: J - estimated value, U - Non detect, R - Poor surrogate recovery, M - Recovery/RPD poor for MS/MSD, SAMP/DUP, B - detected in blank, S - field sample as received did not meet NELAC sample acceptance criteria, L - Subcontracted Lab used, N - NELAC certified analysis

Client Name: Test America
Contact: Trupti Mistry
Address: 17461 Derian Ave
Suite 100
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Page: Page 5 of 9
Lab Proj #: P0802014
Report Date: 02/13/08
Client Proj Name: IRA2754
Client Proj #: IRA2754

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
IRA2754-05	Water	P0802014-03	29 Jan. 07 13:07	01 Feb. 08 11:53

Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	By
SemiVolatiles							
N Acetic Acid		93.00	0.70	mg/L	AM23G	2/12/08	jb
N Butyric Acid		31.00	0.70	mg/L	AM23G	2/12/08	jb
N Hexanoic Acid		0.38	0.1	mg/L	AM23G	2/8/08	jb
N i-Hexanoic Acid	U	< 0.10	0.1	mg/L	AM23G	2/8/08	jb
N i-Pentanoic Acid		1.60	0.70	mg/L	AM23G	2/12/08	jb
N Lactic Acid and HIBA	U	< 1.00	1.00	mg/L	AM23G	2/12/08	jb
N Pentanoic Acid		0.79	0.07	mg/L	AM23G	2/8/08	jb
N Propionic Acid		23.00	0.70	mg/L	AM23G	2/12/08	jb
N Pyruvic Acid	M	1.90	0.07	mg/L	AM23G	2/8/08	jb

Data Qualifiers: J - estimated value, U - Non detect, R - Poor surrogate recovery, M - Recovery/RPD poor for MS/MSD, SAMP/DUP, B - detected in blank, S - field sample as received did not meet NELAC sample acceptance criteria, L - Subcontracted Lab used, N - NELAC certified analysis

BOE-C6-0188233

Client Name: Test America
Contact: Trupti Mistry
Address: 17461 Derian Ave
Suite 100
Irvine, CA 92614

Page: Page 6 of 9
Lab Proj #: P0802014
Report Date: 02/13/08
Client Proj Name: IRA2754
Client Proj #: IRA2754

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
IRA2754-07	Water	P0802014-04	29 Jan 07 11:53	01 Feb. 08 11:53

Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	By
SemiVolatiles							
N Acetic Acid		15.00	0.70	mg/L	AM23G	2/12/08	jb
N Butyric Acid		0.16	0.07	mg/L	AM23G	2/8/08	jb
N Hexanoic Acid	U	< 0.10	0.1	mg/L	AM23G	2/8/08	jb
N i-Hexanoic Acid	U	< 0.10	0.1	mg/L	AM23G	2/8/08	jb
N i-Pentanoic Acid	U	< 0.07	0.07	mg/L	AM23G	2/8/08	jb
N Lactic Acid and HIBA	U	< 1.00	1.00	mg/L	AM23G	2/12/08	jb
N Pentanoic Acid	U	< 0.07	0.07	mg/L	AM23G	2/8/08	jb
N Propionic Acid		1.50	0.07	mg/L	AM23G	2/8/08	jb
N Pyruvic Acid	M	0.58	0.07	mg/L	AM23G	2/8/08	jb

Data Qualifiers: J - estimated value. U - Non detect, R - Poor surrogate recovery, M - Recovery/RPD poor for MS/MSD, SAMP/DUP, B - detected in blank, S - field sample as received did not meet NELAC sample acceptance criteria, L - Subcontracted Lab used, N - NELAC certified analysis

Client Name: Test America
Contact: Trupti Mistry
Address: 17461 Derian Ave
Suite 100
Irvine, CA 92614

Page: Page 7 of 9
Lab Proj #: P0802014
Report Date: 02/13/08
Client Proj Name: IRA2754
Client Proj #: IRA2754

Prep Method: Volatile Fatty Acids by Ion Chromatography
Analysis Method: Volatile Fatty Acids by Ion Chromatography

M080212014-MB

	Result		TrueSpikeConc.	RDL	%Recovery	Ctl Limits
Acetic Acid	< 0.07	mg/L		0.07		- NA
Propionic Acid	< 0.07	mg/L		0.07		- NA
Butyric Acid	< 0.07	mg/L		0.07		- NA
Lactic Acid and HIBA	< 0.10	mg/L		0.10		- NA
Pyruvic Acid	< 0.07	mg/L		0.07		- NA
i-Pentanoic Acid	< 0.07	mg/L		0.07		- NA
Pentanoic Acid	< 0.07	mg/L		0.07		- NA
i-Hexanoic Acid	< 0.10	mg/L		0.10		- NA
Hexanoic Acid	< 0.10	mg/L		0.10		- NA

M080212014-LCS

	Result		TrueSpikeConc.	%Recovery	Ctl Limits
Acetic Acid	1.70	mg/L	2.00	85.00	70 - 130
Propionic Acid	1.70	mg/L	2.00	85.00	70 - 130
Butyric Acid	1.70	mg/L	2.00	85.00	70 - 130
Lactic Acid and HIBA	2.00	mg/L	2.00	100.00	70 - 130
Pyruvic Acid	1.70	mg/L	2.00	85.00	70 - 130
i-Pentanoic Acid	1.60	mg/L	2.00	80.00	70 - 130
Pentanoic Acid	1.50	mg/L	2.00	75.00	70 - 130
i-Hexanoic Acid	1.50	mg/L	2.00	75.00	70 - 130
Hexanoic Acid	1.60	mg/L	2.00	80.00	70 - 130

P0802014-01A-MS

	Result		TrueSpikeConc.	%Recovery	Ctl Limits
Acetic Acid	1.60	mg/L	2.00	77.00	70 - 130
Propionic Acid	1.60	mg/L	2.00	80.00	70 - 130
Butyric Acid	1.60	mg/L	2.00	80.00	70 - 130
Lactic Acid and HIBA	1.60	mg/L	2.00	69.00	70 - 130
Pyruvic Acid	1.30	mg/L	2.00	65.00	70 - 130
i-Pentanoic Acid	1.60	mg/L	2.00	80.00	70 - 130
Pentanoic Acid	1.50	mg/L	2.00	75.00	70 - 130
i-Hexanoic Acid	1.40	mg/L	2.00	70.00	70 - 130

Data Qualifiers: J - estimated value, U - Non detect, R - Poor surrogate recovery, M - Recovery/RPD poor for MS/MSD, SAMP/DUP, B - detected in blank, S - field sample as received did not meet NELAC sample acceptance criteria, L - Subcontracted Lab used, N - NELAC certified analysis

BOE-C6-0188234

Client Name: Test America
Contact: Trupti Mistry
Address: 17461 Derian Ave
Suite 100
Irvine, CA 92614

Page: Page 8 of 9
Lab Proj #: P0802014
Report Date: 02/13/08
Client Proj Name: IRA2754
Client Proj #: IRA2754

P0802014-01A-MS

	Result		TrueSpikeConc.	%Recovery	Ctl Limits
Hexanoic Acid	1.40	mg/L	2.00	70.00	70 - 130

P0802014-01A-MSD

	Result		TrueSpikeConc.	%Recovery	Ctl Limits	RPD	RPD Ctl Limits
Acetic Acid	1.60	mg/L	2.00	77.00	70 - 130	0.00	0 - 30
Propionic Acid	1.60	mg/L	2.00	80.00	70 - 130	0.00	0 - 30
Butyric Acid	1.60	mg/L	2.00	80.00	70 - 130	0.00	0 - 30
Lactic Acid and HIBA	1.60	mg/L	2.00	69.00	70 - 130	0.00	0 - 30
Pyruvic Acid	1.20	mg/L	2.00	60.00	70 - 130	8.00	0 - 30
i-Pentanoic Acid	1.50	mg/L	2.00	75.00	70 - 130	6.45	0 - 30
Pentanoic Acid	1.50	mg/L	2.00	75.00	70 - 130	0.00	0 - 30
i-Hexanoic Acid	1.40	mg/L	2.00	70.00	70 - 130	0.00	0 - 30
Hexanoic Acid	1.40	mg/L	2.00	70.00	70 - 130	0.00	0 - 30

Outlined Results indicate results outside of Control limits

Data Qualifiers: J - estimated value, U - Non detect, R - Poor surrogate recovery, M - Recovery/RPD poor for MS/MSD, SAMP/DUP, B - detected in blank, S - field sample as received did not meet NELAC sample acceptance criteria, L - Subcontracted Lab used, N - NELAC certified analysis

Client Name: Test America
Contact: Trupti Mistry
Address: 17461 Derian Ave
Suite 100
Irvine, CA 92614

Page: Page 9 of 9
Lab Proj #: P0802014
Report Date: 02/13/08
Client Proj Name: IRA2754
Client Proj #: IRA2754

Prep Method: Volatile Fatty Acids by Ion Chromatography
Analysis Method: Volatile Fatty Acids by Ion Chromatography

M080212015-MB

	Result		TrueSpikeConc.	RDL	%Recovery	Ctl Limits
Acetic Acid	< 0.07	mg/L		0.07		- NA
Propionic Acid	< 0.07	mg/L		0.07		- NA
Butyric Acid	< 0.07	mg/L		0.07		- NA
Lactic Acid and HIBA	< 0.10	mg/L		0.10		- NA
Pyruvic Acid	< 0.07	mg/L		0.07		- NA
i-Pentanoic Acid	< 0.07	mg/L		0.07		- NA

M080212015-LCS

	Result		TrueSpikeConc.	%Recovery	Ctl Limits
Acetic Acid	1.60	mg/L	2.00	80.00	70 - 130
Propionic Acid	1.60	mg/L	2.00	80.00	70 - 130
Butyric Acid	1.60	mg/L	2.00	80.00	70 - 130
Lactic Acid and HIBA	1.80	mg/L	2.00	90.00	70 - 130
Pyruvic Acid	1.50	mg/L	2.00	75.00	70 - 130
i-Pentanoic Acid	1.50	mg/L	2.00	75.00	70 - 130

Outlined Results indicate results outside of Control limits

Data Qualifiers: J - estimated value, U - Non detect, R - Poor surrogate recovery, M - Recovery/RPD poor for MS/MSD, SAMP/DUP, B - detected in blank, S - field sample as received did not meet NELAC sample acceptance criteria, L - Subcontracted Lab used, N - NELAC certified analysis

BOE-C6-0188235

Chain of Custody Documents

SUBCONTRACT ORDER

TestAmerica Irvine

IRA2754 P0802014

SENDING LABORATORY:

TestAmerica Irvine
17461 Derian Avenue. Suite 100
Irvine, CA 92614
Phone: (949) 261-1022
Fax: (949) 260-3297
Project Manager: Trupti Mistry

RECEIVING LABORATORY:

Microseeps-SUB
220 William Pitt Way
Pittsburgh, PA 15238
Phone :412/826-5245
Fax: 412/826-3433
Project Location: California
Receipt Temperature: ____ °C Ice: Y / N

Analysis	Units	Due	Expires	Comments
Sample ID: IRA2754-03	**Water**		Sampled: 01/29/08 10:17	
Organic Acids-Out	mg/l	02/12/08	02/26/08 10:17	sub to Microseeps; IC method
Containers Supplied:				
40 mL Amber Voa Vial (G)	40 mL Amber Voa Vial (H)			
Sample ID: IRA2754-04	**Water**		Sampled: 01/29/08 08:51	
Organic Acids-Out	mg/l	02/12/08	02/26/08 08:51	sub to Microseeps; IC method
Containers Supplied:				
40 mL Amber Voa Vial (G)	40 mL Amber Voa Vial (H)			
Sample ID: IRA2754-05	**Water**		Sampled: 01/29/08 13:07	
Organic Acids-Out	mg/l	02/12/08	02/26/08 13:07	sub to Microseeps; IC method
Containers Supplied:				
40 mL Amber Voa Vial (G)	40 mL Amber Voa Vial (H)			
Sample ID: IRA2754-07	**Water**		Sampled: 01/29/08 11:53	
Organic Acids-Out	mg/l	02/12/08	02/26/08 11:53	sub to Microseeps; IC method
Containers Supplied:				
40 mL Amber Voa Vial (G)	40 mL Amber Voa Vial (H)			

Released By	1/30/08 1700 Date/Time	FedEx Received By	1/30/08 1700 Date/Time
Released By	Date/Time	Received By	Date/Time

Page 1 of 1

BOE-C6-0188236

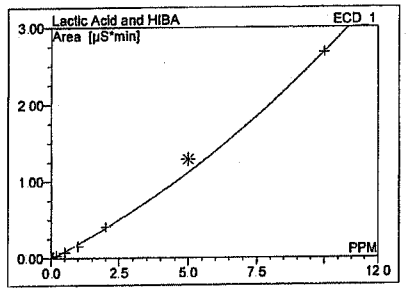
Volatile Fatty Acid Data

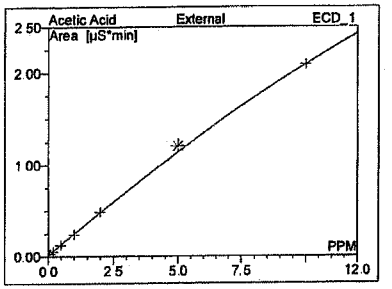
Operator:jblack Timebase:DX-500 Sequence:LLVFA 120507

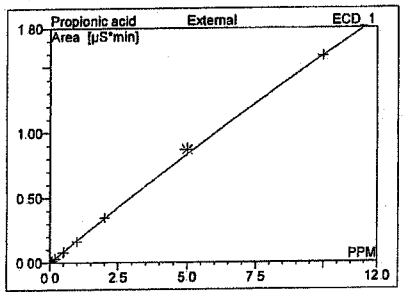
2/12/2008 3:11 PM

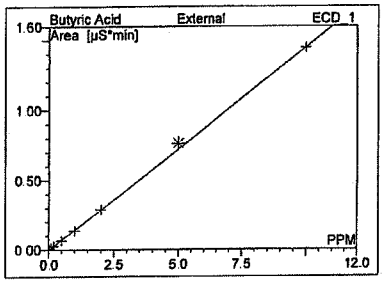
Calibration Batch Report

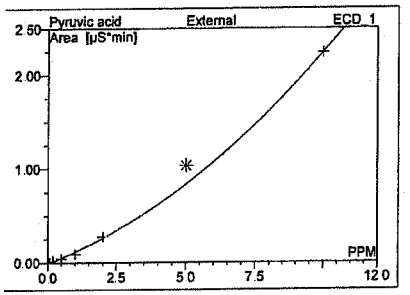
Sequence:	LLVFA 120507	Inj. Vol.:	1.0
Program:	PWM070716AA	Operator:	SEMIVOL13
Inj. Date/Time:	12/05/07	Run Time:	30.00

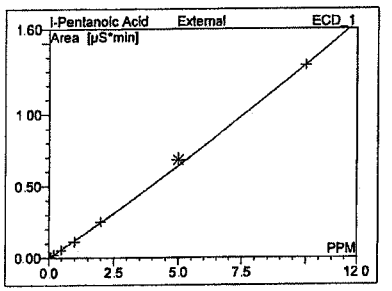










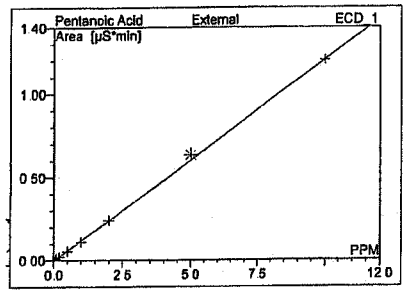


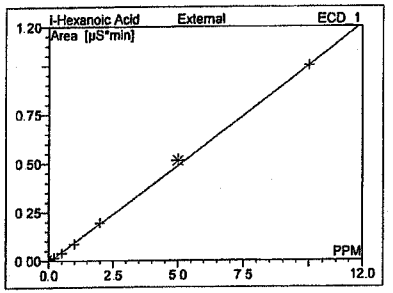
CATION_report/Calibration(Batch)

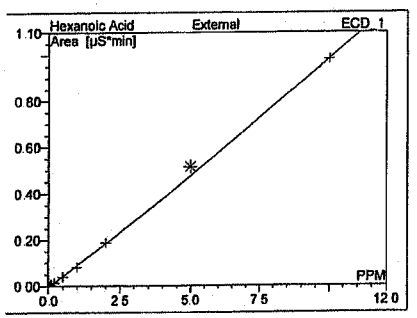
PeakNet 6 (r) Dionex 2001
Version 6.60 Build 1428

BOE-C6-0188237

Sequence:	LLVFA 120507	Inj. Vol.:	1.0
Program:	PWM070716AA	Operator:	n.a.
Inj. Date/Time:	12/05/07	Run Time:	30.00







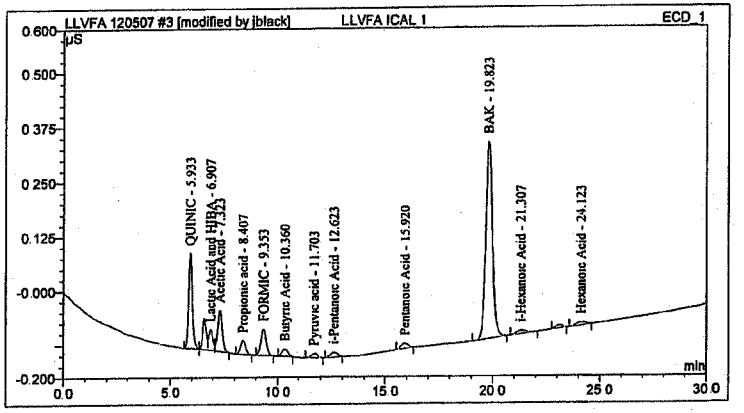
Peak Name	Cal.Mode	Cal.Type	Slope	#Points	Rel.Std.Dev. %	R-Square %
QUINIC	Total	QOff	0.000	7	n.a.	n.a.
Lactic Acid and HIBA	Total	QOff	0.181	7	4.070	99.973
Acetic Acid	Total	QOff	0.244	7	1.339	99.996
Propionic acid	Total	QOff	0.176	7	1.877	99.993
FORMIC	Total	QOff	0.000	7	n.a.	n.a.
Butyric Acid	Total	QOff	0.144	7	1.472	99.996
Pyruvic acid	Total	QOff	0.112	7	3.903	99.978
i-Pentanoic Acid	Total	QOff	0.122	7	2.083	99.992
Pentanoic Acid	Total	QOff	0.121	7	1.948	99.993
BAK	Total	QOff	0.000	7	n.a.	n.a.
i-Hexanoic Acid	Total	QOff	0.096	7	2.508	99.988
Hexanoic Acid	Total	QOff	0.093	7	2.625	99.987

MICROSEEPS

Sample Analysis Report

Sample Name:	LLVFA ICAL 1	**Sequence No:**	3
Sequence Name:	LLVFA 120507	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	12/5/2007 1:34 PM	**Analytical Method:**	AM23G
System Operator:	jblack	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	5.933	0.045	0.220	BMB	n.a.
3	Lactic Acid and HIBA	6.907	0.010	0.047	M	0.1048
4	Acetic Acid	7.323	0.023	0.095	MB	0.0756
5	Propionic acid	8.407	0.009	0.032	BMB	0.0757
6	FORMIC	9.353	0.017	0.061	BMB	n.a.
7	Butyric Acid	10.360	0.005	0.017	BMB	0.0695
8	Pyruvic acid	11.703	0.003	0.009	BMB*	0.1170
9	i-Pentanoic Acid	12.623	0.004	0.011	BMB	0.0805
10	Pentanoic Acid	15.920	0.004	0.011	BMB	0.0732
11	BAK	19.823	0.162	0.451	BMB*	n.a.
12	i-Hexanoic Acid	21.307	0.004	0.008	BMB*	0.0887
14	Hexanoic Acid	24.123	0.004	0.007	BMB*	0.0948



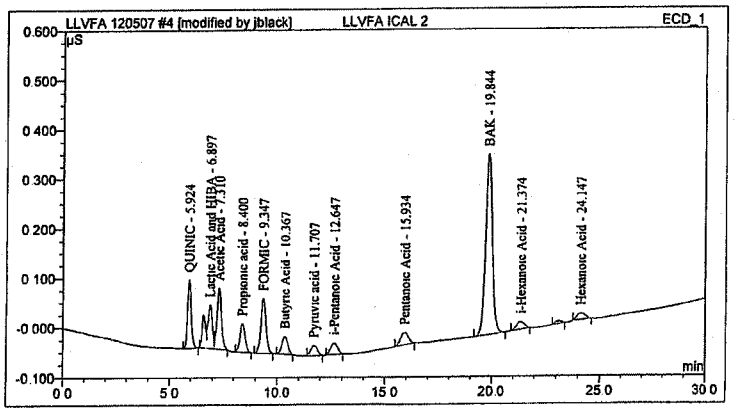
BOE-C6-0188238

MICROSEEPS

Sample Analysis Report

Sample Name:	LLVFA ICAL 2	**Sequence No:**	4
Sequence Name:	LLVFA 120507	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	12/5/2007 2:15 PM	**Analytical Method:**	AM23G
System Operator:	jblack	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	5.924	0.028	0.138	BMB	n.a.
3	Lactic Acid and HIBA	6.897	0.020	0.087	M *	0.1557
4	Acetic Acid	7.310	0.029	0.122	MB*	0.1024
5	Propionic acid	8.400	0.015	0.056	BMB	0.1136
6	FORMIC	9.347	0.030	0.110	BMB	n.a.
7	Butyric Acid	10.367	0.012	0.035	BMB	0.1125
8	Pyruvic acid	11.707	0.007	0.020	BMB	0.1498
9	i-Pentanoic Acid	12.647	0.008	0.023	BMB	0.1145
10	Pentanoic Acid	15.934	0.010	0.024	BMB	0.1184
11	BAK	19.844	0.129	0.364	BMB*	n.a.
12	i-Hexanoic Acid	21.374	0.007	0.015	BMB	0.1165
14	Hexanoic Acid	24.147	0.006	0.013	BMB	0.1169



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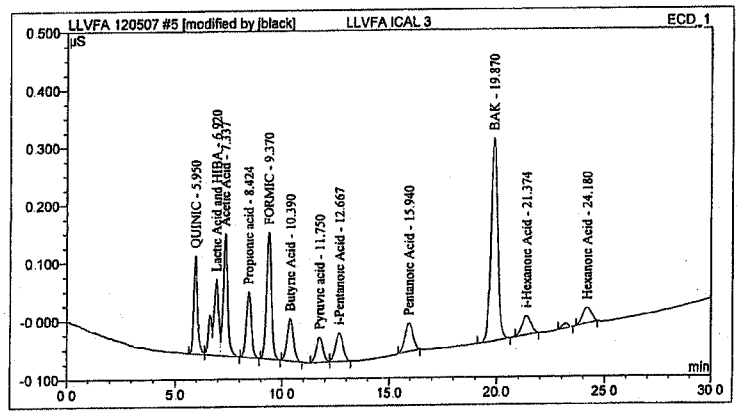
Sample Analysis Report

Sample Name:	LLVFA ICAL 3	**Sequence No:**	5
Sequence Name:	LLVFA 120507	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	12/5/2007 2:56 PM	**Analytical Method:**	AM23G
System Operator:	jblack	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	5.950	0.035	0.169	BM	n.a.
3	Lactic Acid and HIBA	6.920	0.030	0.131	M	0.2121
4	Acetic Acid	7.337	0.053	0.210	MB	0.1984
5	Propionic acid	8.424	0.031	0.112	BMB	0.2041
6	FORMIC	9.370	0.060	0.218	BMB	n.a.
7	Butyric Acid	10.390	0.025	0.072	BMB	0.2059
8	Pyruvic acid	11.750	0.016	0.043	BM	0.2241
9	i-Pentanoic Acid	12.667	0.020	0.048	MB	0.2064
10	Pentanoic Acid	15.940	0.020	0.048	BMB	0.2005
11	BAK	19.870	0.124	0.350	BMB*	n.a.
12	i-Hexanoic Acid	21.374	0.015	0.032	BMB	0.2074
14	Hexanoic Acid	24.180	0.013	0.026	BMB	0.1924



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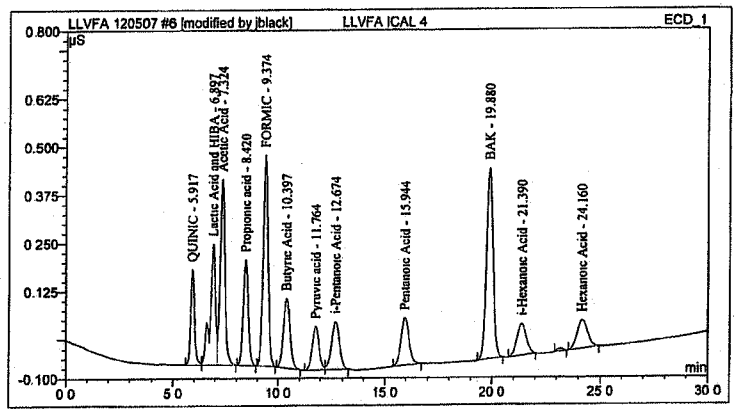
Sample Analysis Report

Sample Name:	LLVFA ICAL 4	**Sequence No:**	6
Sequence Name:	LLVFA 120507	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1 0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	12/5/2007 3:37 PM	**Analytical Method:**	AM23G
System Operator:	jblack	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	5.917	0.052	0.247	BM	n.a.
3	Lactic Acid and HIBA	6.897	0.073	0.313	M *	0.4396
4	Acetic Acid	7.324	0.121	0.481	MB	0.4822
5	Propionic acid	8.420	0.077	0.274	BMB	0.4687
6	FORMIC	9.374	0.150	0.547	BMB	n.a.
7	Butyric Acid	10.397	0.064	0.179	BMB	0.4723
8	Pyruvic acid	11.764	0.042	0.112	BM	0.4455
9	i-Pentanoic Acid	12.674	0.052	0.123	MB	0.4706
10	Pentanoic Acid	15.944	0.054	0.121	BMB	0.4784
11	BAK	19.880	0.173	0.495	BMB*	n.a.
12	i-Hexanoic Acid	21.390	0.039	0.080	BMB	0.4581
14	Hexanoic Acid	24.160	0.039	0.072	BMB	0.4742



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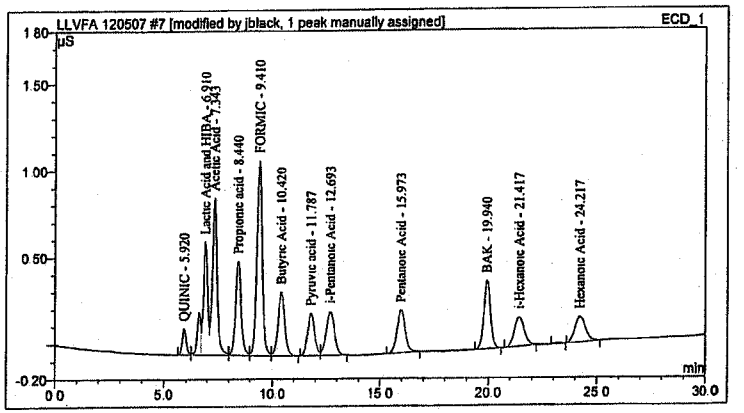
Sample Analysis Report

Sample Name:	LLVFA ICAL 5	**Sequence No:**	7
Sequence Name:	LLVFA 120507	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	12/5/2007 4:18 PM	**Analytical Method:**	AM23G
System Operator:	jblack	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	5.920	0.031	0.148	BM ^	n.a.
3	Lactic Acid and HIBA	6.910	0.152	0.649	M	0.8523
4	Acetic Acid	7.343	0.238	0.902	M	0.9700
5	Propionic acid	8.440	0.162	0.539	M	0.9565
6	FORMIC	9.410	0.318	1.121	M	n.a.
7	Butyric Acid	10.420	0.135	0.364	MB	0.9642
8	Pyruvic acid	11.787	0.090	0.240	BM	0.8242
9	i-Pentanoic Acid	12.693	0.111	0.250	MB	0.9395
10	Pentanoic Acid	15.973	0.110	0.244	BMB	0.9446
11	BAK	19.940	0.137	0.390	BMB*	n.a.
12	i-Hexanoic Acid	21.417	0.085	0.167	BMB	0.9348
14	Hexanoic Acid	24.217	0.081	0.146	BMB	0.9248



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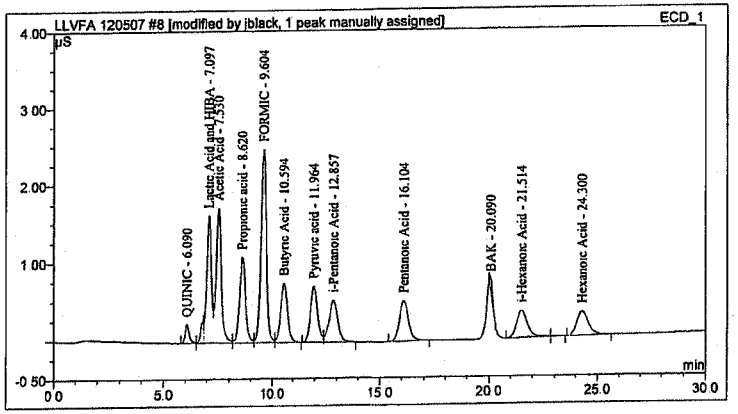
Sample Analysis Report

Sample Name:	LLVFA ICAL 6	**Sequence No:**	8
Sequence Name:	LLVFA 120507	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1 0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	12/5/2007 4:59 PM	**Analytical Method:**	AM23G
System Operator:	jblack	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	6.090	0.053	0.236	BM *^	n.a.
3	Lactic Acid and HIBA	7.097	0.407	1.634	M *	2.0856
4	Acetic Acid	7.530	0.484	1.731	M *	2.0222
5	Propionic acid	8.620	0.346	1.096	M *	2.0323
6	FORMIC	9.604	0.729	2.490	M *	n.a.
7	Butyric Acid	10.594	0.288	0.757	MB	2.0262
8	Pyruvic acid	11.964	0.273	0.715	BM	2.0895
9	i-Pentanoic Acid	12.857	0.249	0.534	MB	2.0393
10	Pentanoic Acid	16.104	0.242	0.513	BMB	2.0357
11	BAK	20.090	0.028	0.186	BMB	n.a.
12	i-Hexanoic Acid	21.514	0.194	0.347	BM	2.0455
14	Hexanoic Acid	24.300	0.188	0.309	BMB	2.0478



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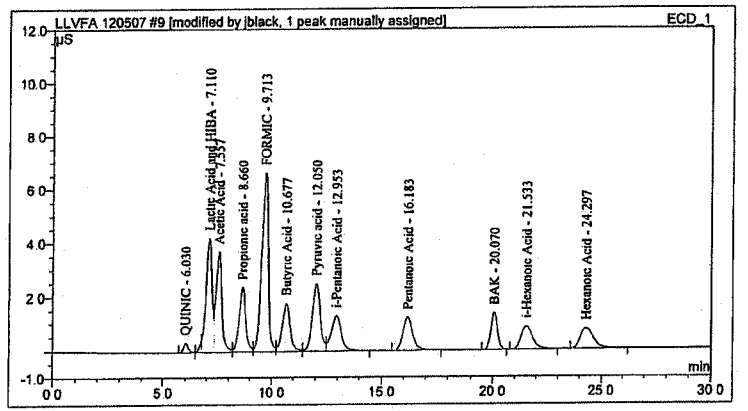
Sample Analysis Report

Sample Name:	LLVFA ICAL 7	**Sequence No:**	9
Sequence Name:	LLVFA 120507	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	12/5/2007 5:40 PM	**Analytical Method:**	AM23G
System Operator:	jblack	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	6.030	0.088	0.340	BM ^	n.a.
3	Lactic Acid and HIBA	7.110	1.288	4.234	M *	5.6328
4	Acetic Acid	7.557	1.205	3.716	M *	5.3269
5	Propionic acid	8.660	0.869	2.394	M *	5.2306
6	FORMIC	9.713	2.290	6.631	M	n.a.
7	Butyric Acid	10.677	0.764	1.773	M	5.3103
8	Pyruvic acid	12.050	1.032	2.504	M	5.8565
9	i-Pentanoic Acid	12.953	0.682	1.299	MB*	5.3241
10	Pentanoic Acid	16.183	0.634	1.225	BMB	5.2784
11	BAK	20.070	0.476	1.367	BMB*	n.a.
12	i-Hexanoic Acid	21.533	0.515	0.838	BMB	5.2784
13	Hexanoic Acid	24.297	0.515	0.747	BMB	5.4137



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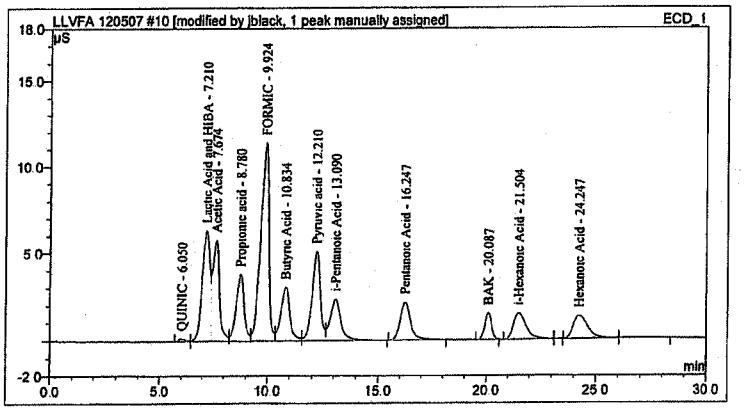
Sample Analysis Report

Sample Name:	LLVFA ICAL 8	**Sequence No:**	10
Sequence Name:	LLVFA 120507	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1 0000
Date Time Collected:	12/5/2007 6:21 PM	**Analytical Method:**	AM23G
System Operator:	jblack	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	6.050	0.048	0.147	BM ^	n.a.
2	Lactic Acid and HIBA	7.210	2.674	6.325	M	9.9988
3	Acetic Acid	7.674	2.089	5.772	M	9.9993
4	Propionic acid	8.780	1.585	3.803	M	9.9991
5	FORMIC	9.924	4.905	11.410	M	n.a.
6	Butyric Acid	10.834	1.446	3.056	M	9.9994
7	Pyruvic acid	12.210	2.238	5.097	M	9.9991
8	i-Pentanoic Acid	13.090	1.344	2.358	MB	9.9992
9	Pentanoic Acid	16.247	1.202	2.160	BMB	9.9992
10	BAK	20.087	0.520	1.505	BMB*	n.a.
11	I-Hexanoic Acid	21.504	1.001	1.478	BMb*	9.9990
13	Hexanoic Acid	24.247	0.983	1.300	BMB	9.9990



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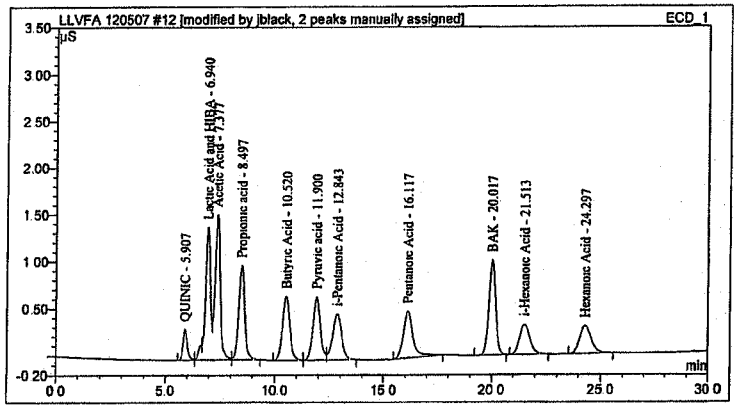
Sample Analysis Report

Sample Name:	ICV	**Sequence No:**	12
Sequence Name:	LLVFA 120507	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	12/5/2007 7:43 PM	**Analytical Method:**	AM23G
System Operator:	jblack	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	5.907	0.073	0.323	BM	n.a.
3	Lactic Acid and HIBA	6.940	0.351	1.406	M *^	1.8248
4	Acetic Acid	7.377	0.428	1.541	M *	1.7774
5	Propionic acid	8.497	0.312	0.997	MB*	1.8313
6	Butyric Acid	10.520	0.260	0.674	BM ^	1.8294
7	Pyruvic acid	11.900	0.263	0.669	M	2.0246
8	i-Pentanoic Acid	12.843	0.225	0.481	MB	1.8472
9	Pentanoic Acid	16.117	0.253	0.494	BMB	2.1283
10	BAK	20.017	0.353	1.006	BMB*	n.a.
11	i-Hexanoic Acid	21.513	0.171	0.316	BMB	1.8110
12	Hexanoic Acid	24.297	0.175	0.292	BMB	1.9173



BOE-C6-0188242

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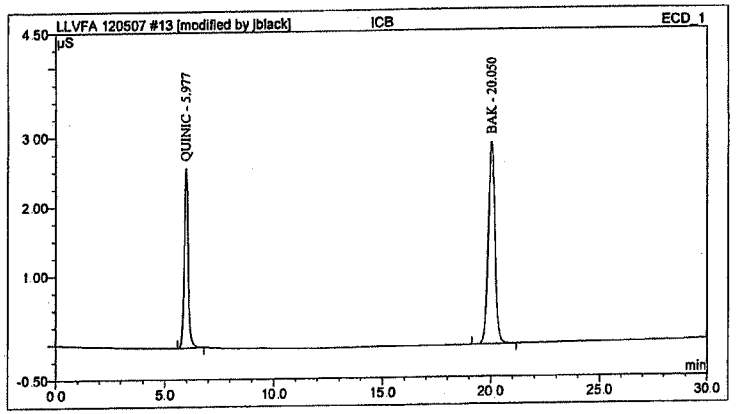
Sample Analysis Report

Sample Name:	ICB	**Sequence No:**	13
Sequence Name:	LLVFA 120507	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	12/5/2007 8:25 PM	**Analytical Method:**	AM23G
System Operator:	jblack	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	5.977	0.560	2.591	BMB	n.a.
2	BAK	20.050	1.021	2.912	BMB*	n.a.



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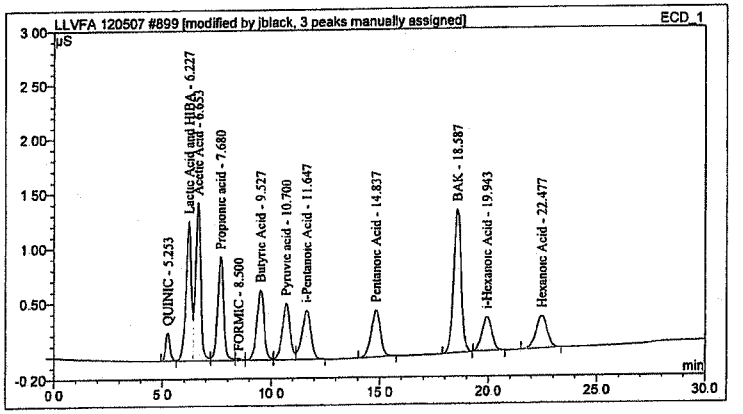
Sample Analysis Report

Sample Name:	CCV	**Sequence No:**	899
Sequence Name:	LLVFA 120507	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	2/7/2008 12:07 PM	**Analytical Method:**	AM23G
System Operator:	jblack	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	5.253	0.056	0.253	Ru	n.a.
2	Lactic Acid and HIBA	6.227	0.367	1.276	BM	1.8985
3	Acetic Acid	6.653	0.409	1.447	M	1.6975
4	Propionic acid	7.680	0.310	0.948	M	1.8203
5	FORMIC	8.500	0.005	0.015	M	n.a.
6	Butyric Acid	9.527	0.253	0.641	M	1.7841
7	Pyruvic acid	10.700	0.215	0.516	M ^	1.7163
8	i-Pentanoic Acid	11.647	0.219	0.446	MB	1.7971
9	Pentanoic Acid	14.837	0.213	0.430	BMB	1.7989
10	BAK	18.587	0.528	1.312	BMB	n.a.
11	i-Hexanoic Acid	19.943	0.161	0.309	BMB*^	1.7174
12	Hexanoic Acid	22.477	0.175	0.297	BMB^	1.9140



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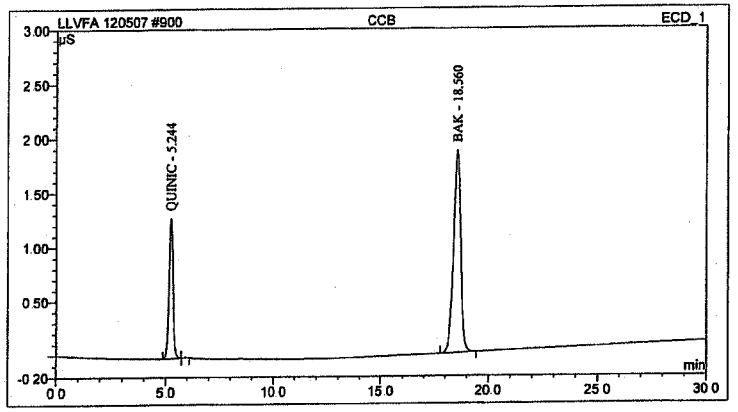
Sample Analysis Report

Sample Name:	CCB	**Sequence No:**	900
Sequence Name:	LLVFA 120507	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	2/7/2008 12:48 PM	**Analytical Method:**	AM23G
System Operator:	jblack	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	5.244	0.273	1.296	BM	n.a.
3	BAK	18.560	0.746	1.865	BMB	n.a.



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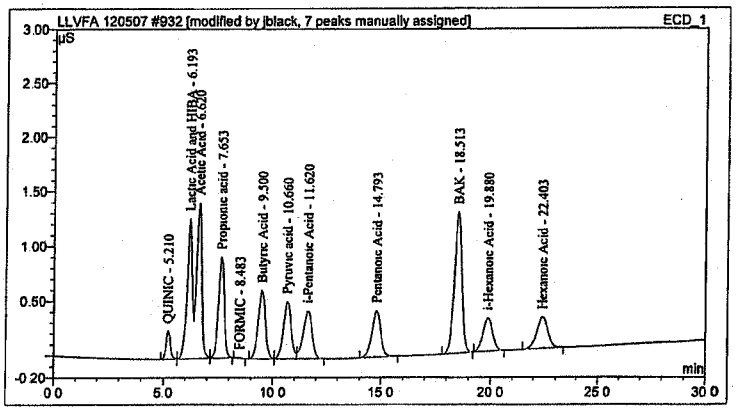
Sample Analysis Report

Sample Name:	CCV	**Sequence No:**	932
Sequence Name:	LLVFA 120507	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	2/8/2008 11:37 AM	**Analytical Method:**	AM23G
System Operator:	jblack	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	5.210	0.058	0.256	BM *^	n.a.
2	Lactic Acid and HIBA	6.193	0.358	1.279	M *^	1.8565
3	Acetic Acid	6.620	0.387	1.421	M *^	1.6031
4	Propionic acid	7.653	0.285	0.920	MB*^	1.6728
5	FORMIC	8.483	0.002	0.007	BMB^	n.a.
6	Butyric Acid	9.500	0.238	0.624	BM ^	1.6832
7	Pyruvic acid	10.660	0.213	0.524	M ^	1.6990
8	i-Pentanoic Acid	11.620	0.208	0.436	MB	1.7110
9	Pentanoic Acid	14.793	0.205	0.423	BMB	1.7332
10	BAK	18.513	0.498	1.285	BMB	n.a.
11	i-Hexanoic Acid	19.880	0.154	0.300	BMB*	1.6398
12	Hexanoic Acid	22.403	0.164	0.285	BMB	1.7982



BOE-C6-0188244

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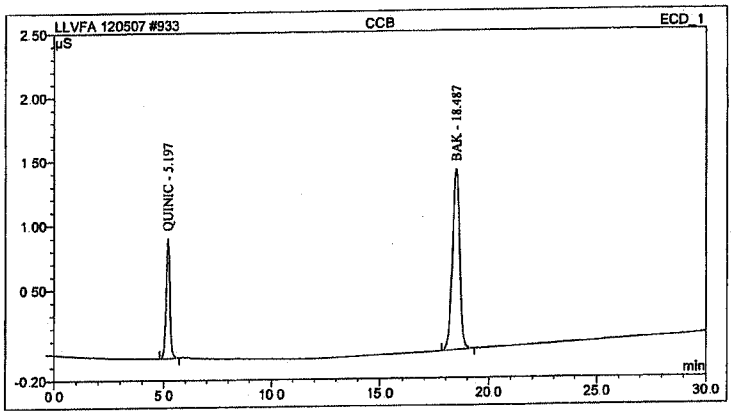
Sample Analysis Report

Sample Name:	CCB	**Sequence No:**	933
Sequence Name:	LLVFA 120507	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	2/8/2008 12:18 PM	**Analytical Method:**	AM23G
System Operator:	jblack	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	5.197	0.193	0.929	BMB	n.a.
2	BAK	18.487	0.542	1.397	BMB	n.a.



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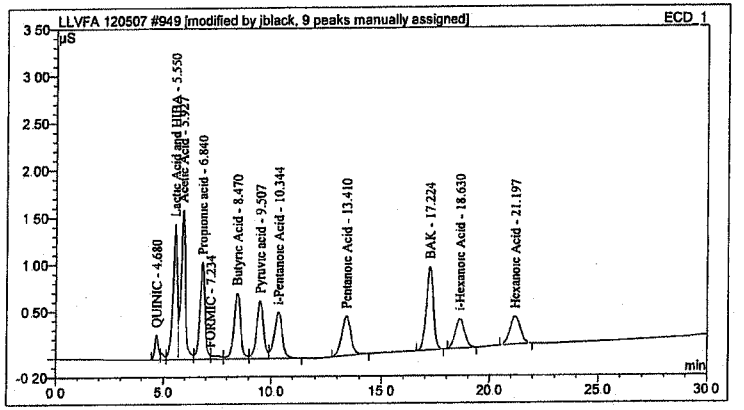
Sample Analysis Report

Sample Name:	CCV	**Sequence No:**	949
Sequence Name:	LLVFA 120507	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1 0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1 0000
Date Time Collected:	2/11/2008 1:47 PM	**Analytical Method:**	AM23G
System Operator:	jblack	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	4.680	0.050	0.257	BM *	n.a.
3	Lactic Acid and HIBA	5.550	0.340	1.436	M *^	1.7735
4	Acetic Acid	5.927	0.404	1.585	M *	1.6762
5	Propionic acid	6.840	0.290	1.033	M *	1.7065
6	FORMIC	7.234	0.017	0.038	M *^	n.a.
7	Butyric Acid	8.470	0.245	0.699	M *^	1.7307
8	Pyruvic acid	9.507	0.223	0.612	M *^	1.7677
9	i-Pentanoic Acid	10.344	0.207	0.486	MB*^	1.7098
10	Pentanoic Acid	13.410	0.197	0.417	BMB*^	1.6668
11	BAK	17.224	0.326	0.887	BMB^	n.a.
12	i-Hexanoic Acid	18.630	0.155	0.309	BMB*^	1.6520
13	Hexanoic Acid	21.197	0.164	0.297	BMB^	1.8035



BOE-C6-0188245

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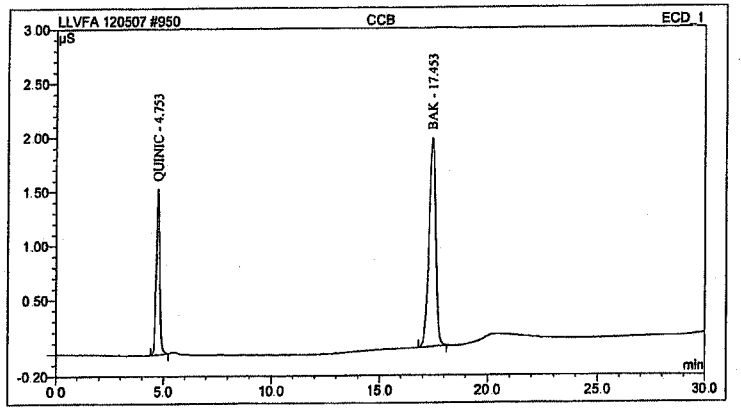
Sample Analysis Report

Sample Name:	CCB	**Sequence No:**	950
Sequence Name:	LLVFA 120507	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	2/11/2008 2:28 PM	**Analytical Method:**	AM23G
System Operator:	jblack	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	4.753	0.284	1.530	BMB	n.a.
2	BAK	17.453	0.701	1.925	BMB	n.a.

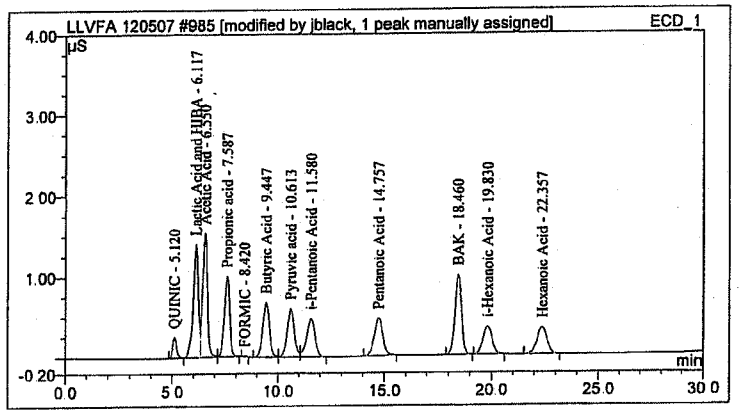


MICROSEEPS

Sample Analysis Report

Sample Name:	CCV	**Sequence No:**	985
Sequence Name:	LLVFA 120507	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	2/12/2008 3:08 PM	**Analytical Method:**	AM23G
System Operator:	jblack	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	5.120	0.056	0.256	Ru	n.a.
2	Lactic Acid and HIBA	6.117	0.379	1.405	BM	1.9587
3	Acetic Acid	6.550	0.403	1.540	M	1.6723
4	Propionic acid	7.587	0.295	0.998	MB	1.7315
5	FORMIC	8.420	0.001	0.007	BMB	n.a.
6	Butyric Acid	9.447	0.250	0.680	BM	1.7636
7	Pyruvic acid	10.613	0.236	0.601	M ^	1.8549
8	i-Pentanoic Acid	11.580	0.217	0.475	MB	1.7848
9	Pentanoic Acid	14.757	0.212	0.464	BMB	1.7911
10	BAK	18.460	0.355	0.995	BMB	n.a.
11	i-Hexanoic Acid	19.830	0.170	0.346	BMB*	1.8010
12	Hexanoic Acid	22.357	0.182	0.335	BMB	1.9876



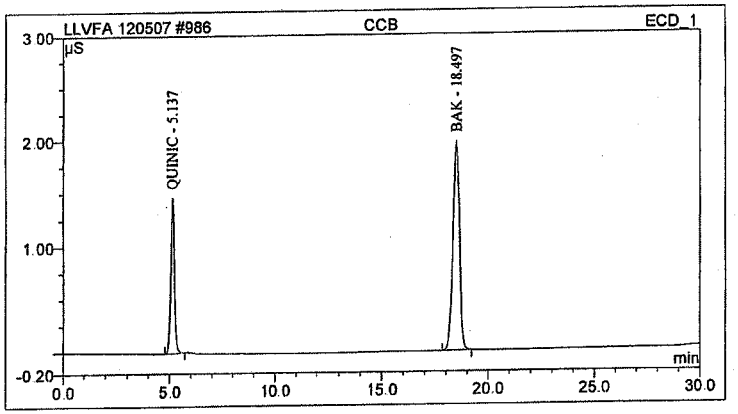
BOE-C6-0188246

MICROSEEPS

Sample Analysis Report

Sample Name:	CCB	**Sequence No:**	986
Sequence Name:	LLVFA 120507	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	2/12/2008 3:49 PM	**Analytical Method:**	AM23G
System Operator:	jblack	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	5.137	0.298	1.469	BMB	n.a.
2	BAK	18.497	0.707	1.975	BMB	n.a.

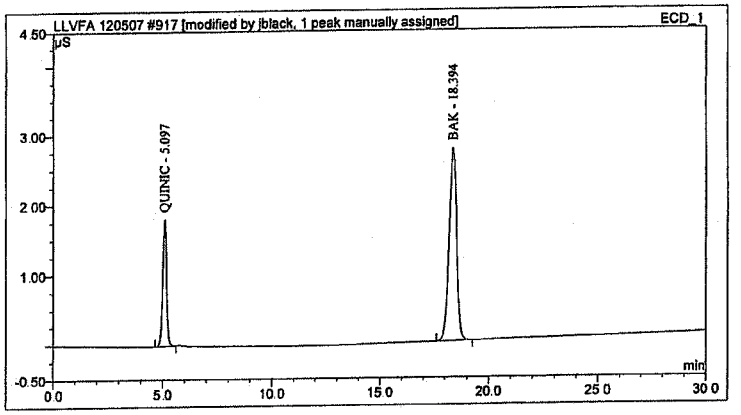


MICROSEEPS

Sample Analysis Report

Sample Name:	M080205015-MB	**Sequence No:**	917
Sequence Name:	LLVFA 120507	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	2/8/2008 1:08 AM	**Analytical Method:**	AM23G
System Operator:	jblack	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	5.097	0.386	1.810	BMB*^	n.a.
2	BAK	18.394	1.102	2.754	BMB	n.a.



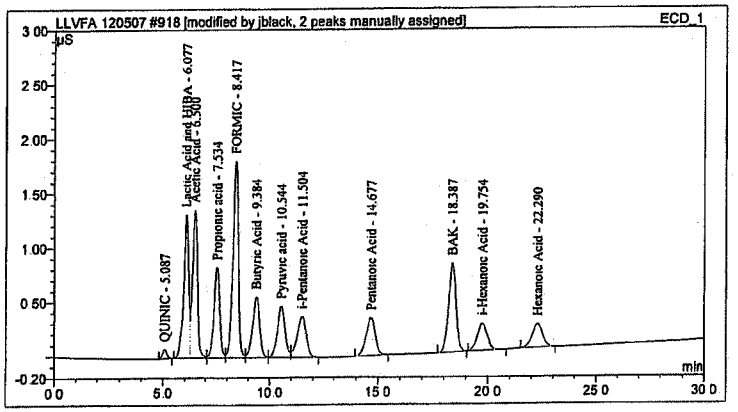
BOE-C6-0188247

MICROSEEPS

Sample Analysis Report

Sample Name:	M080205015-LCS	**Sequence No:**	918
Sequence Name:	LLVFA 120507	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	2/8/2008 1:49 AM	**Analytical Method:**	AM23G
System Operator:	jblack	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	5.087	0.018	0.083	BMB^	n.a.
2	Lactic Acid and HIBA	6.077	0.376	1.321	BM	1.9423
3	Acetic Acid	6.500	0.371	1.362	M	1.5356
4	Propionic acid	7.534	0.262	0.832	M	1.5390
5	FORMIC	8.417	0.556	1.810	M	n.a.
6	Butyric Acid	9.384	0.215	0.569	M	1.5225
7	Pyruvic acid	10.544	0.196	0.472	M ^	1.5876
8	i-Pentanoic Acid	11.504	0.181	0.375	MB	1.4971
9	Pentanoic Acid	14.677	0.166	0.347	BMB	1.4115
10	BAK	18.387	0.323	0.819	BMB	n.a.
11	i-Hexanoic Acid	19.754	0.126	0.244	BMB*	1.3500
12	Hexanoic Acid	22.290	0.119	0.213	BMB	1.3277

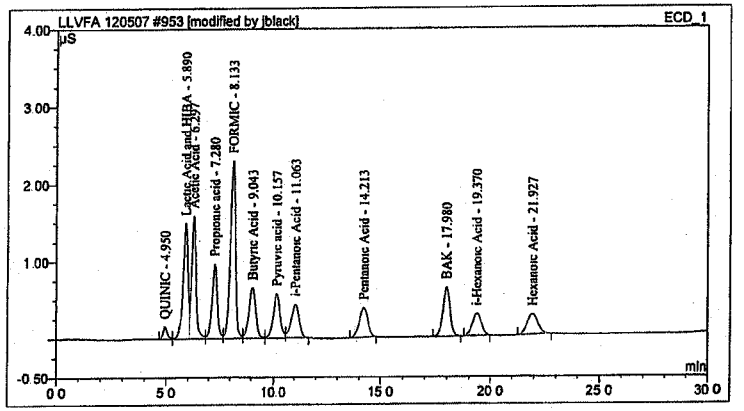


MICROSEEPS

Sample Analysis Report

Sample Name:	M080205015-LCS RERUN	**Sequence No:**	953
Sequence Name:	LLVFA 120507	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	2/11/2008 5:12 PM	**Analytical Method:**	AM23G
System Operator:	jblack	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	4.950	0.036	0.161	BM *	n.a.
2	Lactic Acid and HIBA	5.890	0.397	1.499	M *	2.0409
3	Acetic Acid	6.297	0.411	1.589	M	1.7057
4	Propionic acid	7.280	0.286	0.966	M	1.6781
5	FORMIC	8.133	0.643	2.296	M	n.a.
6	Butyric Acid	9.043	0.235	0.657	M	1.6572
7	Pyruvic acid	10.157	0.218	0.576	M	1.7366
8	i-Pentanoic Acid	11.063	0.191	0.437	MB	1.5809
9	Pentanoic Acid	14.213	0.172	0.384	BMB	1.4590
10	BAK	17.980	0.231	0.642	BMB	n.a.
11	i-Hexanoic Acid	19.370	0.136	0.282	BMB	1.4568
12	Hexanoic Acid	21.927	0.146	0.265	BMB	1.6147



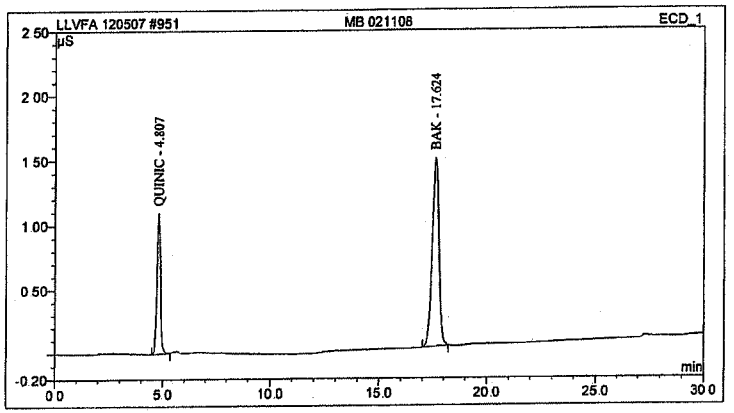
BOE-C6-0188248

MICROSEEPS

Sample Analysis Report

Sample Name:	MB 021108	**Sequence No:**	951
Sequence Name:	LLVFA 120507	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	2/11/2008 3:09 PM	**Analytical Method:**	AM23G
System Operator:	jblack	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	4.807	0.203	1.093	BMB	n.a.
2	BAK	17.624	0.524	1.459	BMB	n.a.

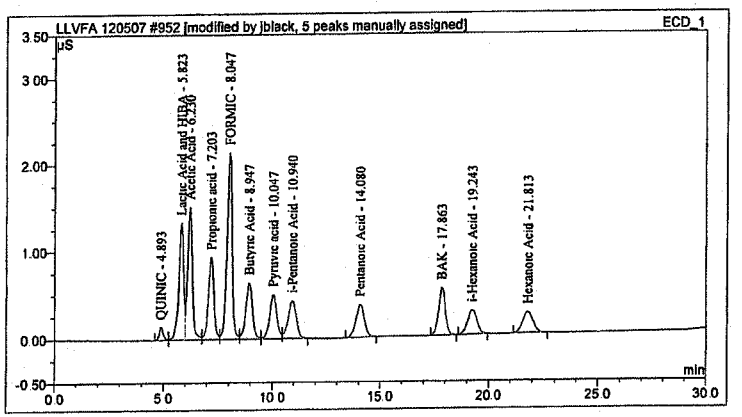


MICROSEEPS

Sample Analysis Report

Sample Name:	LCS 021108	**Sequence No:**	952
Sequence Name:	LLVFA 120507	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1 0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	2/11/2008 4:31 PM	**Analytical Method:**	AM23G
System Operator:	jblack	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	4.893	0.032	0.144	BM	n.a.
2	Lactic Acid and HIBA	5.823	0.344	1.338	M ^	1.7938
3	Acetic Acid	6.230	0.387	1.518	M	1.6048
4	Propionic acid	7.203	0.276	0.937	M	1.6229
5	FORMIC	8.047	0.592	2.143	M ^	n.a.
6	Butyric Acid	8.947	0.229	0.642	M	1.6190
7	Pyruvic acid	10.047	0.190	0.504	M	1.5434
8	i-Pentanoic Acid	10.940	0.187	0.428	MB	1.5493
9	Pentanoic Acid	14.080	0.171	0.373	BMB^	1.4523
10	BAK	17.863	0.194	0.539	BMB	n.a.
11	i-Hexanoic Acid	19.243	0.135	0.274	BMB^	1.4491
12	Hexanoic Acid	21.813	0.128	0.238	BMB*^	1.4162



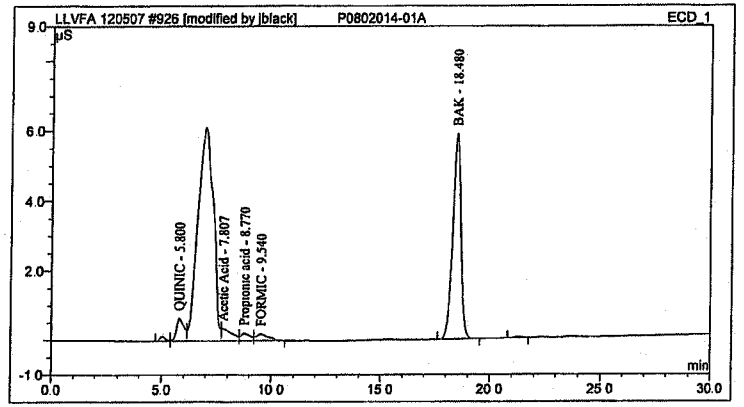
BOE-C6-0188249

MICROSEEPS

Sample Analysis Report

Sample Name:	P0802014-01A	**Sequence No:**	926
Sequence Name:	LLVFA 120507	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	2/8/2008 7:18 AM	**Analytical Method:**	AM23G
System Operator:	jblack	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
2	QUINIC	5.800	0.247	0.650	M *	n.a.
4	Acetic Acid	7.807	0.184	0.339	M	0.7418
5	Propionic acid	8.770	0.103	0.205	M	0.6134
6	FORMIC	9.540	0.119	0.183	MB	n.a.
7	BAK	18.480	2.603	5.881	BMB	n.a.

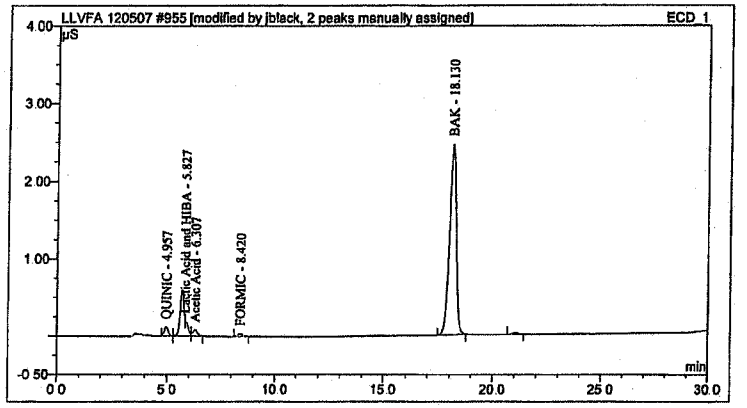


MICROSEEPS

Sample Analysis Report

Sample Name:	P0802014-01A RERUN	**Sequence No:**	955
Sequence Name:	LLVFA 120507	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	2/11/2008 6:34 PM	**Analytical Method:**	AM23G
System Operator:	jblack	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	4.957	0.022	0.114	BMB^	n.a.
3	Lactic Acid and HIBA	5.827	0.032	0.191	M *^	0.2221
4	Acetic Acid	6.307	0.019	0.075	MB*	0.0597
5	FORMIC	8.420	0.009	0.035	BMB	n.a.
6	BAK	18.130	0.883	2.460	BMB	n.a.



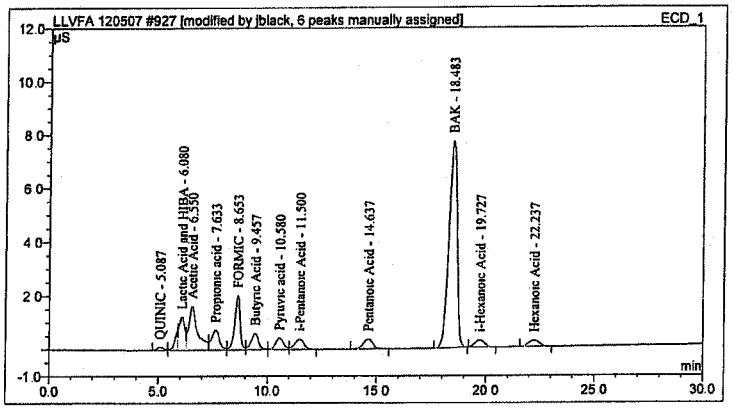
BOE-C6-0188250

MICROSEEPS

Sample Analysis Report

Sample Name:	P0802014-01A-MS	**Sequence No:**	927
Sequence Name:	LLVFA 120507	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	2/8/2008 7:59 AM	**Analytical Method:**	AM23G
System Operator:	jblack	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	5.087	0.034	0.106	BM ^	n.a.
3	Lactic Acid and HIBA	6.080	0.389	1.237	M *	2.0008
4	Acetic Acid	6.550	0.754	1.624	M ^	3.2188
5	Propionic acid	7.633	0.305	0.727	M ^	1.7926
6	FORMIC	8.653	0.598	2.029	M ^	n.a.
7	Butyric Acid	9.457	0.234	0.598	M ^	1.6528
8	Pyruvic acid	10.580	0.180	0.424	M ^	1.4811
9	i-Pentanoic Acid	11.500	0.186	0.379	MB	1.5422
10	Pentanoic Acid	14.637	0.179	0.360	BMB	1.5141
11	BAK	18.483	3.286	7.693	BMB	n.a.
12	i-Hexanoic Acid	19.727	0.120	0.247	BMB*	1.2946
13	Hexanoic Acid	22.237	0.126	0.230	BMB	1.4045

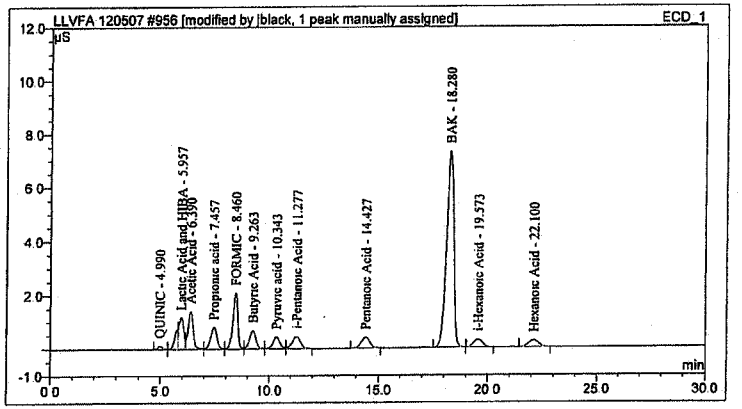


MICROSEEPS

Sample Analysis Report

Sample Name:	P0802014-01A-MS RERUN	**Sequence No:**	956
Sequence Name:	LLVFA 120507	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	2/11/2008 7:15 PM	**Analytical Method:**	AM23G
System Operator:	jblack	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	4.990	0.029	0.128	BM	n.a.
3	Lactic Acid and HIBA	5.957	0.304	1.177	M *	1.6014
4	Acetic Acid	6.390	0.383	1.411	M *	1.5871
5	Propionic acid	7.457	0.274	0.799	M *	1.6105
6	FORMIC	8.460	0.542	2.075	M *	n.a.
7	Butyric Acid	9.263	0.228	0.668	M *	1.6143
8	Pyruvic acid	10.343	0.157	0.422	M ^	1.3201
9	i-Pentanoic Acid	11.277	0.188	0.429	MB	1.5581
10	Pentanoic Acid	14.427	0.174	0.387	BMB	1.4762
11	BAK	18.280	2.760	7.286	BMB	n.a.
12	i-Hexanoic Acid	19.573	0.129	0.272	BMB*	1.3809
13	Hexanoic Acid	22.100	0.129	0.245	BMB	1.4272



BOE-C6-0188251

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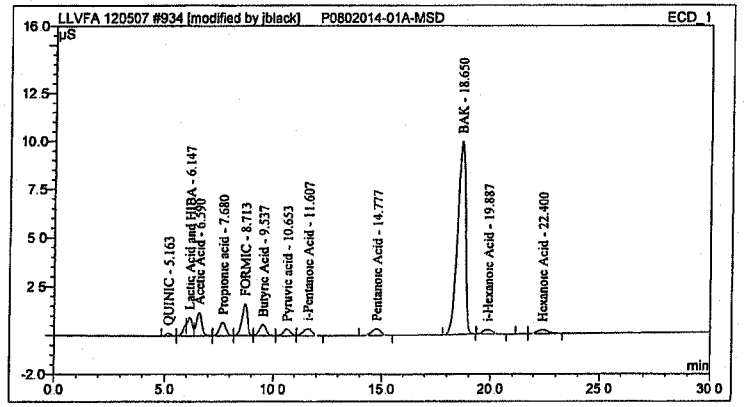
Sample Analysis Report

Sample Name:	P0802014-01A-MSD	**Sequence No:**	934
Sequence Name:	LLVFA 120507	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	2/8/2008 12:59 PM	**Analytical Method:**	AM23G
System Operator:	jblack	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	5.163	0.033	0.144	BM *	n.a.
3	Lactic Acid and HIBA	6.147	0.248	0.933	M *	1.3320
4	Acetic Acid	6.590	0.342	1.200	M	1.4087
5	Propionic acid	7.680	0.241	0.686	M *	1.4177
6	FORMIC	8.713	0.476	1.633	M	n.a.
7	Butyric Acid	9.537	0.199	0.557	Mb	1.4076
8	Pyruvic acid	10.653	0.131	0.338	bM	1.1290
9	i-Pentanoic Acid	11.607	0.167	0.361	MB	1.3892
10	Pentanoic Acid	14.777	0.161	0.337	BMB	1.3701
11	BAK	18.650	4.186	9.942	BMB	n.a.
12	i-Hexanoic Acid	19.887	0.107	0.224	BMB*	1.1577
14	Hexanoic Acid	22.400	0.115	0.208	MB	1.2886

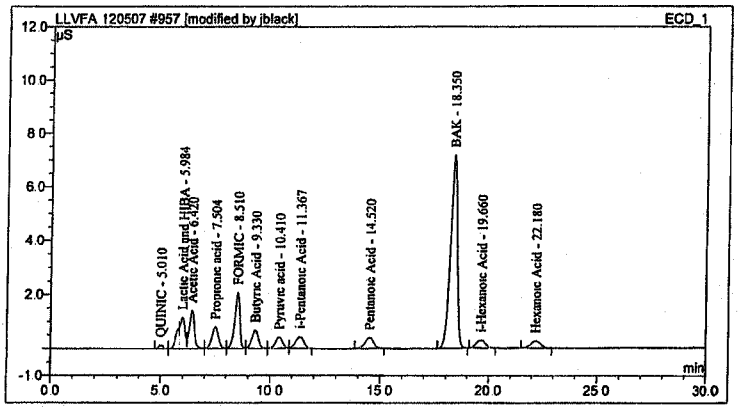


MICROSEEPS

Sample Analysis Report

Sample Name:	P0802014-01A-MSD RERUN	**Sequence No:**	957
Sequence Name:	LLVFA 120507	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	2/11/2008 7:57 PM	**Analytical Method:**	AM23G
System Operator:	jblack	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	5.010	0.028	0.125	BM	n.a.
3	Lactic Acid and HIBA	5.984	0.295	1.136	M *	1.5582
4	Acetic Acid	6.420	0.379	1.393	M	1.5687
5	Propionic acid	7.504	0.273	0.786	M	1.6022
6	FORMIC	8.510	0.538	2.054	M	n.a.
7	Butyric Acid	9.330	0.224	0.658	M	1.5853
8	Pyruvic acid	10.410	0.147	0.403	M	1.2466
9	i-Pentanoic Acid	11.367	0.179	0.418	MB	1.4844
10	Pentanoic Acid	14.520	0.174	0.386	BMB	1.4698
11	BAK	18.350	2.702	7.168	BMB	n.a.
12	i-Hexanoic Acid	19.660	0.127	0.271	BMB*	1.3630
13	Hexanoic Acid	22.180	0.128	0.244	BMB	1.4220



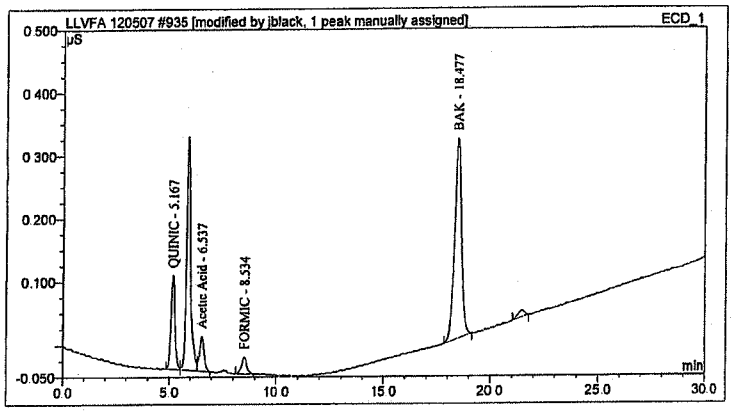
BOE-C6-0188252

MICROSEEPS

Sample Analysis Report

Sample Name:	P0802014-02A	**Sequence No:**	935
Sequence Name:	LLVFA 120507	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	2/8/2008 1:40 PM	**Analytical Method:**	AM23G
System Operator:	jblack	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	5.167	0.031	0.148	BM	n.a.
3	Acetic Acid	6.537	0.014	0.054	MB*^	0.0387
4	FORMIC	8.534	0.008	0.027	BMB	n.a.
5	BAK	18.477	0.123	0.316	BMB	n.a.

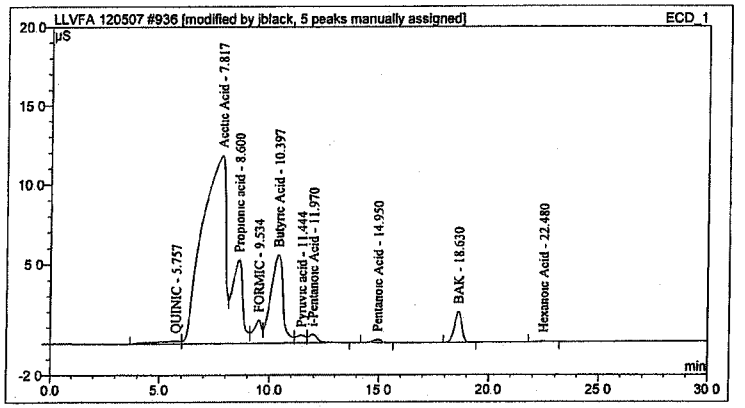


MICROSEEPS

Sample Analysis Report

Sample Name:	P0802014-03A	**Sequence No:**	936
Sequence Name:	LLVFA 120507	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	2/8/2008 2:21 PM	**Analytical Method:**	AM23G
System Operator:	jblack	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	5.757	0.260	0.181	BM	n.a.
2	Acetic Acid	7.817	14.466	11.832	M ^	n.a.
3	Propionic acid	8.600	3.051	5.251	M ^	22.0108
4	FORMIC	9.534	0.618	1.466	M *^	n.a.
5	Butyric Acid	10.397	3.555	5.570	M *^	24.3341
6	Pyruvic acid	11.444	0.248	0.501	M ^	1.9294
7	I-Pentanoic Acid	11.970	0.282	0.537	MB	2.2978
8	Pentanoic Acid	14.950	0.091	0.199	BMB	0.7888
9	BAK	18.630	0.742	1.943	BMB	n.a.
10	Hexanoic Acid	22.480	0.030	0.058	BMB	0.3820



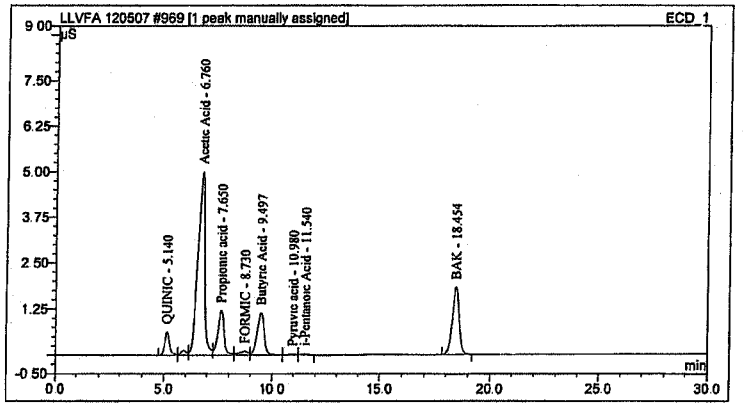
BOE-C6-0188253

MICROSEEPS

Sample Analysis Report

Sample Name:	P0802014-03A 10X	**Sequence No:**	969
Sequence Name:	LLVFA 120507	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	2/12/2008 4:10 AM	**Analytical Method:**	AM23G
System Operator:	jblack	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	5.140	0.162	0.636	BM	n.a.
3	Acetic Acid	6.760	1.958	4.997	M	9.2514
4	Propionic acid	7.650	0.394	1.207	M	2.3172
5	FORMIC	8.730	0.049	0.108	M	n.a.
6	Butyric Acid	9.497	0.443	1.144	M	3.0992
7	Pyruvic acid	10.980	0.012	0.028	M	0.1948
8	i-Pentanoic Acid	11.540	0.014	0.035	MB	0.1613
9	BAK	18.454	0.662	1.820	BMB	n.a.

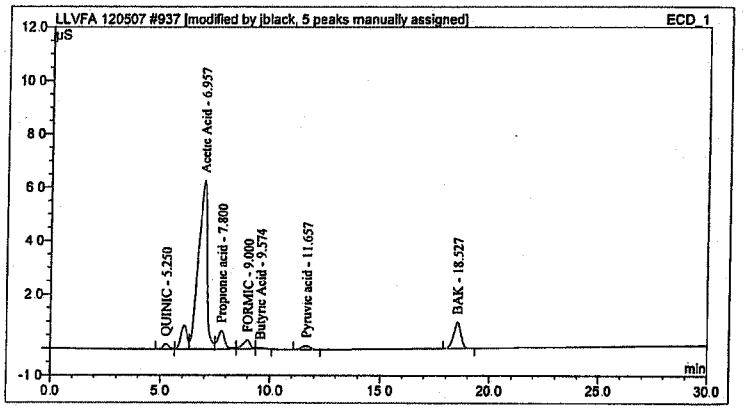


MICROSEEPS

Sample Analysis Report

Sample Name:	P0802014-04A	**Sequence No:**	937
Sequence Name:	LLVFA 120507	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	2/8/2008 3:02 PM	**Analytical Method:**	AM23G
System Operator:	jblack	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	5.250	0.055	0.189	BM ^	n.a.
3	Acetic Acid	6.957	3.016	6.288	M *^	16.1591
4	Propionic acid	7.800	0.258	0.678	M *^	1.5177
5	FORMIC	9.000	0.130	0.331	M *	n.a.
6	Butyric Acid	9.574	0.018	0.050	MB*^	0.1585
7	Pyruvic acid	11.657	0.058	0.134	BMB	0.5772
8	BAK	18.527	0.372	0.962	BMB	n.a.



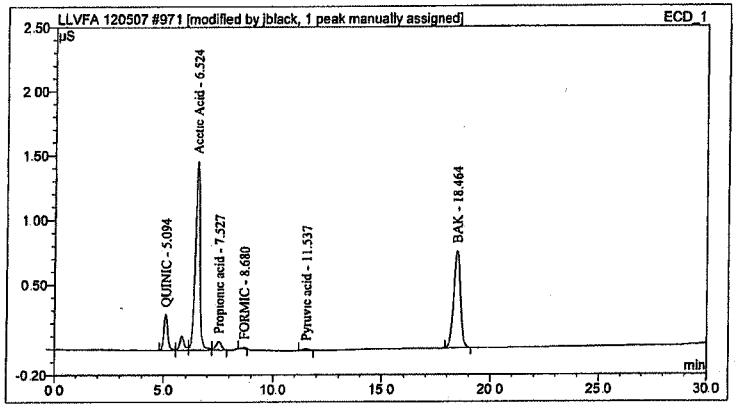
BOE-C6-0188254

MICROSEEPS

Sample Analysis Report

Sample Name:	P0802014-04A 10X	**Sequence No:**	971
Sequence Name:	LLVFA 120507	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	2/12/2008 5:32 AM	**Analytical Method:**	AM23G
System Operator:	jblack	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	5.094	0.056	0.276	BM	n.a.
3	Acetic Acid	6.524	0.372	1.458	M	1.5370
4	Propionic acid	7.527	0.019	0.064	MB	0.1344
5	FORMIC	8.680	0.002	0.010	BMB*	n.a.
6	Pyruvic acid	11.537	0.004	0.012	BMB	0.1249
7	BAK	18.464	0.266	0.748	BMB	n.a.



North Wind

Boeing Site Quantitative PCR Analytical Summary

13 February, 2008

Overview:

The objective of this project was to quantify the number of *Dehalococcoides sp.* (DHC) 16S rRNA gene copies and reductase functional genes (*tceA*, *vcrA*, and *bvcA* copies) contained in groundwater collected from the Boeing Site, Irvine, CA, using quantitative polymerase chain reaction (QPCR). The client is Camp, Dresser and McKee. Table 1 describes the sample matrix and the condition of the samples upon arrival to the analytical laboratory.

Table 1. Description of the Boeing Site samples and volume filtered for DNA extraction.

Well Location	Matrix–Date Sampled	Condition Received/ Observations	Volume Filtered (L)
IRA2754-03	Groundwater–01/29/2008	4°C, 1L bottles	0.75
IRA2754-04	Groundwater–01/29/2008	4°C, 1L bottles	0.75
IRA2754-05	Groundwater–01/29/2008	4°C, 1L bottles	0.80
IRA2754-07	Groundwater–01/29/2008	4°C, 1L bottles	0.95

The samples arrived in good condition at 4°C. All samples were received within 24 hours of sample collection. Upon arrival, the samples in 1-L bottles were filtered and frozen for storage at -80°C until the DNA extraction was performed. Following DNA extraction, the samples were first subjected to polymerase chain reaction (PCR) using universal bacterial probes in order to verify amplifiable DNA was present in the sample. The results of these studies are described here.

BOE-C6-0188255

Methods:

DNA Extraction: For groundwater shipped to the laboratory, between 350 and 1L of groundwater was filtered using sterile 0.2-µm acetate filters. The filters were frozen at -80°C and then shattered. Next, each sample tube was amended with 2 mL of DNA-free water, vortexed vigorously for 5 minutes, and the liquid volume was partitioned into DNA extraction tubes. DNA extractions were performed using the Bio101 DNA Extraction Kit according to the manufacturer's instructions. DNA product was cleaned with ethanol precipitation. Community DNA was eluted in nuclease-free water (100 µL) and stored at -20°C.

Amplification of Bacteria: The PCR was used to amplify nearly full-length 16S rDNA genes from *Bacteria*. Each 25-µL PCR reaction included 0.4 mg mL-1 molecular-grade BSA (Sigma Chemicals), 5X PCR buffer (Promega), 0.5 µM each forward and reverse primer (Invitrogen), 1 U Taq DNA polymerase (Promega), 0.2 mM each dNTP (Invitrogen), 1 µL template DNA, and molecular-grade water (Promega). Amplification was performed on a PerkinElmer Model 9600 thermocycler using the following regime: 94°C (5 min) followed by 40 cycles of 94°C (1 min), 53.5°C (1 min), and 72°C (1 min). The reaction was finished with an additional 7 minutes at 72°C. PCR products were examined in a 1.0% agarose gel stained with ethidium bromide to confirm specificity of the amplification reactions.

Detection of Dehalococcoides: The QPCR methods for assessing the 16S rRNA gene, and the reductase genes *tceA, bvcA,* and *vcrA*, are very sensitive in detecting specific DNA fragments. The detection limit for the methods used is approximately 0.2 gene copies per µL of the DNA extraction. The reporting limit is 50 gene copies per µL of the DNA extraction.

A mixed laboratory culture containing *Dehalococcoides* was used to obtain the quantitative standards used in these analyses. Plasmid DNA containing DNA inserts of targets 16S rRNA gene, *tceA, bvcA*, and *vcrA* from *Dehalococcoides* were purified and quantified fluorometrically. Based on the known size of the plasmid and insert, DNA concentrations were converted to insert copy numbers. A dilution series spanning seven orders of magnitude was generated using known concentrations of each plasmid. Amplification and detection of the DNA was performed using the MJ Chromo4 System. The acceptance criterion for the standard curve is a linear R^2 value of greater than 0.995.

TaqMan Protocol. The 16S rRNA gene, and reductase genes *tceA*, bvcA and *vcrA*, QPCR reactions were performed using TaqMan chemistry. All reagents and materials used in the QPCR amplification are purchased from Applied Biosystems. The Taqman probes were synthesized using the FAM label on the 5-foot end and the TAMARA quencher for the 16S rRNA gene (Applied Biosystems), and the BHQ quencher (Biosearch Technologies) for the *tceA*, bvcA and *vcrA* reactions. Reaction volumes of 25 µL contained forward and reverse primers at a concentration of 700 nM, a probe at a concentrations of 200 nM, 1 x TaqMan Universal PCR Master Mix, and 5 µL of sample DNA. The settings for cycle number and reaction conditions used for all runs were 95°C for 10 minutes, and 45 cycles of 95°C for 15 seconds and 58°C for 1 minute. Standards and unknowns were run in triplicate to ensure reproducibility. Cycle thresholds (C_t) were set to minimize the standard deviation of standard curve triplicate C_t values, and also to obtain a standard curve slope as close to negative 3.5 as possible. The Bio-Rad (formerly MJ Research) PTC-200 Chromo 4 Thermocycler was used for all reactions. Thermocycler settings for all target genes were 95°C for 10 min, 95°C for 15 sec, and 58°C for 1 min, with a total of 45 cycles of the last two temperature steps.

Results:

The groundwater samples arrived at the lab in good condition at 4°C with ice still in the cooler. The groundwater samples were filtered in the lab, and the filters were immediately placed in a -80°C freezer and stored until the DNA extraction was performed. Table 2 summarizes the QPCR analysis of the Boeing Site project samples. The DNA extraction negative control and all PCR negative controls did not amplify any product. In addition, all calibration control checks were within acceptable values.

Table 2. Results of molecular analyses for the Boeing Site.

Well Location	DNA (ng/L groundwater)	Universal PCR	*Dehalococcoides* 16S rDNA (copy/L groundwater)*			*Dehalococcoides* tceA (copy/L groundwater)*			*Dehalococcoides* bvcA (copy/L groundwater)*			*Dehalococcoides* vcrA (copy/L groundwater)*	
IRA2754-03	1276	+	9.46E+02*	±	4.53E+02	0.0			1.7E+03*	±	4.31E+02	0.0	
IRA2754-04	1651	+	9.27E+04	±	1.67E+04	0.0			5.6E+04	±	4.84E+03	0.0	
IRA2754-05	4551	+	4.14E+09	±	2.43E+08	5.14E+09	±	6.85E+08	2.5E+08	±	1.51E+07	0.0	
IRA2754-07	1798	+	5.58E+07	±	1.11E+07	0.0			5.2E+07	±	2.92E+06	0.0	

* : a * indicates that the value presented is below the reporting limit.
\# : a '+' sign indicates that amplification of *Bacteria* and *Dehalococcoides* was successful, and a '-' sign indicates that amplification was not successful.

The DNA concentration of the DNA extraction (in ng/L of groundwater) is reported as an indicator of relative biomass levels for the samples so that relative comparisons can be made. All DNA extractions yielded sufficient DNA to amplify *Bacteria* in a universal PCR reaction, and these products were visualized by gel electrophoresis, confirming that amplifiable DNA was obtained from each sample.

The *Dehalococcoides* (DHC) 16s rRNA gene and reductase gene *bvcA* were detected in all samples; however, they were not detected above reporting limits (50 gene copies/µL of DNA extraction) in sample IRA2754-03. Reductase gene *tceA* was identified in sample IRA2754-05, but not in any other sample above the method detection limit. Reductase gene *vcrA* was not detected in any sample above the method detection limit.

BOE-C6-0188256

TestAmerica Irvine

IRA2754

SENDING LABORATORY:

TestAmerica Irvine
17461 Derian Avenue. Suite 100
Irvine, CA 92614
Phone: (949) 261-1022
Fax: (949) 260-3297
Project Manager: Trupti Mistry

RECEIVING LABORATORY:

Air Technology Lab - SUB
18501 E. Gale Avenue, Suite #130
City of Industry, CA 91748
Phone :(626) 964-4032
Fax: (626) 964-5832
Project Location: California
Receipt Temperature: _____ °C Ice: Y / N

Analysis	Units	Due	Expires	Comments
Sample ID: IRA2754-03	**Water**		**Sampled: 01/29/08 10:17**	
Diss. Gasses-OUT	mg/l	02/12/08	02/12/08 10:17	RSK175,sub=ATL,C2H4,C2H6,CH4,El mnt EDD,BOE 9/05
Containers Supplied:				
40 mL VOA w/HCL + rubber septa (D)	40 mL. VOA w/HCL + rubber septa (E)		40 mL VOA w/HCL + rubber septa (F)	
Sample ID: IRA2754-04	**Water**		**Sampled: 01/29/08 08:51**	
Diss. Gasses-OUT	mg/l	02/12/08	02/12/08 08:51	RSK175,sub=ATL,C2H4,C2H6,CH4,El mnt EDD,BOE 9/05
Containers Supplied:				
40 mL VOA w/HCL + rubber septa (D)	40 mL. VOA w/HCL + rubber septa (E)		40 mL VOA w/HCL + rubber septa (F)	
Sample ID: IRA2754-05	**Water**		**Sampled: 01/29/08 13:07**	
Diss. Gasses-OUT	mg/l	02/12/08	02/12/08 13:07	RSK175,sub=ATL,C2H4,C2H6,CH4,El mnt EDD,BOE 9/05
Containers Supplied:				
40 mL VOA w/HCL + rubber septa (D)	40 mL. VOA w/HCL + rubber septa (E)		40 mL VOA w/HCL + rubber septa (F)	
Sample ID: IRA2754-07	**Water**		**Sampled: 01/29/08 11:53**	
Diss. Gasses-OUT	mg/l	02/12/08	02/12/08 11:53	RSK175,sub=ATL,C2H4,C2H6,CH4,El mnt EDD,BOE 9/05
Containers Supplied:				
40 mL VOA w/HCL + rubber septa (D)	40 mL. VOA w/HCL + rubber septa (E)		40 mL VOA w/HCL + rubber septa (F)	

Released By	Date/Time	Received By	Date/Time
Released By	Date/Time	Received By	Date/Time

North Wind

SUBCONTRACT ORDER

TestAmerica Irvine

IRA2754

SENDING LABORATORY:

TestAmerica Irvine
17461 Derian Avenue. Suite 100
Irvine, CA 92614
Phone: (949) 261-1022
Fax: (949) 260-3297
Project Manager: Trupti Mistry

RECEIVING LABORATORY:

Microseeps-SUB
220 William Pitt Way
Pittsburgh, PA 15238
Phone :412/826-5245
Fax: 412/826-3433
Project Location: California
Receipt Temperature: ____ °C Ice: Y / N

Analysis	Units	Due	Expires	Comments
Sample ID: IRA2754-03	**Water**		Sampled: 01/29/08 10:17	
Organic Acids-Out	mg/l	02/12/08	02/26/08 10:17	sub to Microseeps; IC method
Containers Supplied:				
40 mL Amber Voa Vial (G)	40 mL Amber Voa Vial (H)			
Sample ID: IRA2754-04	**Water**		Sampled: 01/29/08 08:51	
Organic Acids-Out	mg/	02/12/08	02/26/08 08:51	sub to Microseeps; IC method
Containers Supplied:				
40 mL Amber Voa Vial (G)	40 mL Amber Voa Vial (H)			
Sample ID: IRA2754-05	**Water**		Sampled: 01/29/08 13:07	
Organic Acids-Out	mg/l	02/12/08	02/26/08 13:07	sub to Microseeps; IC method
Containers Supplied:				
40 mL Amber Voa Vial (G)	40 mL Amber Voa Vial (H)			
Sample ID: IRA2754-07	**Water**		Sampled: 01/29/08 11:53	
Organic Acids-Out	mg/l	02/12/08	02/26/08 11:53	sub to Microseeps; IC method
Containers Supplied:				
40 mL Amber Voa Vial (G)	40 mL Amber Voa Vial (H)			

Released By	Date/Time	Received By	Date/Time
Released By	Date/Time	Received By	Date/Time

SUBCONTRACT ORDER

TestAmerica Irvine

IRA2754

SENDING LABORATORY:

TestAmerica Irvine
17461 Derian Avenue. Suite 100
Irvine, CA 92614
Phone: (949) 261-1022
Fax: (949) 260-3297
Project Manager: Trupti Mistry

RECEIVING LABORATORY:

Idaho State University - Dept. of Bio Sci - MRCF
650 Memorial Drive
Pocatello, ID 83209
Phone :(208) 282-4890
Fax: zzz
Project Location: California
Receipt Temperature: ____ °C Ice: Y / N

Analysis	Units	Due	Expires	Comments
Sample ID: IRA2754-03	**Water**		Sampled: 01/29/08 10:17	
Outside Analysis	%	02/12/08	07/27/08 10:17	Dehalo by qPCR, sub to Idaho St ; tceA, bvcA, vcrA
Containers Supplied:				
1 Liter Poly (J)	1 Liter Poly (K)			
Sample ID: IRA2754-04	**Water**		Sampled: 01/29/08 08:51	
Outside Analysis	%	02/12/08	07/27/08 08:51	Dehalo by qPCR, sub to Idaho St ; tceA, bvcA, vcrA
Containers Supplied:				
1 Liter Poly (J)	1 Liter Poly (K)			
Sample ID: IRA2754-05	**Water**		Sampled: 01/29/08 13:07	
Outside Analysis	%	02/12/08	07/27/08 13:07	Dehalo by qPCR, sub to Idaho St ; tceA, bvcA, vcrA
Containers Supplied:				
1 Liter Poly (J)	1 Liter Poly (K)			
Sample ID: IRA2754-07	**Water**		Sampled: 01/29/08 11:53	
Outside Analysis	%	02/12/08	07/27/08 11:53	Dehalo by qPCR, sub to Idaho St ; tceA, bvcA, vcrA
Containers Supplied:				
1 Liter Poly (J)	1 Liter Poly (K)			

Released By	Date/Time	Received By	Date/Time
	1/29/08 17:00		
Released By	Date/Time	Received By	Date/Time

BOE-C6-0188258

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
17461 Derian Avenue. Suite 100, Irvine, CA 92614 (949) 261-1022 Fax:(949) 260-3297

LABORATORY REPORT

Prepared For: Avocet Environmental Inc.
16 Technology Drive, Suite 154
Irvine, CA 92618
Attention: Michael Rendina

Project: Boeing C-6 Torrance
1155.002

Sampled: 01/30/08
Received: 01/30/08
Issued: 02/26/08 18:18

NELAP #01108CA California ELAP#1197 CSDLAC #10256

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, 1 page, is included and is an integral part of this report.
This entire report was reviewed and approved for release.

CASE NARRATIVE

SAMPLE RECEIPT: Samples were received intact, at 4°C, on ice and with chain of custody documentation.

HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report.

PRESERVATION: Samples requiring preservation were verified prior to sample analysis.

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.

COMMENTS: Results that fall between the MDL and RL are 'J' flagged.

Please note the sample IDs for sample -01 (Trip Blank) and -02 (Equipment Blank) have been corrected to be consistent with the other sample IDs in this work order.

SUBCONTRACTED: Refer to the last page for specific subcontract laboratory information included in this report.

ADDITIONAL INFORMATION: Please note the sub lab data/reports from the three subcontract laboratories have been merged into our TestAmerica report.

LABORATORY ID	CLIENT ID	MATRIX
IRA2908-01	TB_AV20080130_01	Water
IRA2908-02	EB_AV20080130_01	Water
IRA2908-03	AW0075UB_WG20080130_01	Water

TestAmerica Irvine

Trupti Mistry
Project Manager

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
17461 Derian Avenue. Suite 100, Irvine, CA 92614 (949) 261-1022 Fax:(949) 260-3297

Avocet Environmental Inc.
16 Technology Drive, Suite 154
Irvine, CA 92618
Attention: Michael Rendina

Project ID: Boeing C-6 Torrance
1155.002
Report Number: IRA2908

Sampled: 01/30/08
Received: 01/30/08

LABORATORY ID	CLIENT ID	MATRIX
IRA2908-04	AW0076UB_WG20080130_01	Water
IRA2908-05	AW0077UB_WG20080130_01	Water

Reviewed By:

TestAmerica Irvine

Trupti Mistry
Project Manager

The results pertain only to the samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from TestAmerica.

BOE-C6-0188259

Avocet Environmental Inc.
16 Technology Drive, Suite 154
Irvine, CA 92618
Attention: Michael Rendina

Project ID: Boeing C-6 Torrance
1155.002
Report Number: IRA2908

Sampled: 01/30/08
Received: 01/30/08

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Sample ID: IRA2908-01 (TB_AV20080130_01 - Water)
Reporting Units: ug/l

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Acetone	EPA 8260B	8B03021	4.5	10	**4.7**	1	02/03/08	02/03/08	Ja
Benzene	EPA 8260B	8B03021	0.28	1.0	ND	1	02/03/08	02/03/08	
Bromobenzene	EPA 8260B	8B03021	0.27	1.0	ND	1	02/03/08	02/03/08	
Bromochloromethane	EPA 8260B	8B03021	0.32	1.0	ND	1	02/03/08	02/03/08	
Bromodichloromethane	EPA 8260B	8B03021	0.30	1.0	ND	1	02/03/08	02/03/08	
Bromoform	EPA 8260B	8B03021	0.40	1.0	ND	1	02/03/08	02/03/08	
Bromomethane	EPA 8260B	8B03021	0.42	1.0	ND	1	02/03/08	02/03/08	
2-Butanone (MEK)	EPA 8260B	8B03021	4.7	5.0	ND	1	02/03/08	02/03/08	
tert-Butylbenzene	EPA 8260B	8B03021	0.22	1.0	ND	1	02/03/08	02/03/08	
n-Butylbenzene	EPA 8260B	8B03021	0.37	1.0	ND	1	02/03/08	02/03/08	
sec-Butylbenzene	EPA 8260B	8B03021	0.25	1.0	ND	1	02/03/08	02/03/08	
Carbon Disulfide	EPA 8260B	8B03021	0.48	1.0	ND	1	02/03/08	02/03/08	
Carbon tetrachloride	EPA 8260B	8B03021	0.28	0.50	ND	1	02/03/08	02/03/08	
Chlorobenzene	EPA 8260B	8B03021	0.36	1.0	ND	1	02/03/08	02/03/08	
Chloroethane	EPA 8260B	8B03021	0.40	2.0	ND	1	02/03/08	02/03/08	
Chloroform	EPA 8260B	8B03021	0.33	1.0	ND	1	02/03/08	02/03/08	
Chloromethane	EPA 8260B	8B03021	0.40	2.0	ND	1	02/03/08	02/03/08	
2-Chlorotoluene	EPA 8260B	8B03021	0.28	1.0	ND	1	02/03/08	02/03/08	
4-Chlorotoluene	EPA 8260B	8B03021	0.29	1.0	ND	1	02/03/08	02/03/08	
1,2-Dibromo-3-chloropropane	EPA 8260B	8B03021	0.97	2.0	ND	1	02/03/08	02/03/08	
Dibromochloromethane	EPA 8260B	8B03021	0.28	1.0	ND	1	02/03/08	02/03/08	
1,2-Dibromoethane (EDB)	EPA 8260B	8B03021	0.40	1.0	ND	1	02/03/08	02/03/08	
1,3-Dichlorobenzene	EPA 8260B	8B03021	0.35	1.0	ND	1	02/03/08	02/03/08	
1,4-Dichlorobenzene	EPA 8260B	8B03021	0.37	1.0	ND	1	02/03/08	02/03/08	
1,2-Dichlorobenzene	EPA 8260B	8B03021	0.32	1.0	ND	1	02/03/08	02/03/08	
Dichlorodifluoromethane	EPA 8260B	8B03021	0.26	1.0	ND	1	02/03/08	02/03/08	
1,1-Dichloroethane	EPA 8260B	8B03021	0.27	1.0	ND	1	02/03/08	02/03/08	
1,2-Dichloroethane	EPA 8260B	8B03021	0.28	0.50	ND	1	02/03/08	02/03/08	
cis-1,2-Dichloroethene	EPA 8260B	8B03021	0.32	1.0	ND	1	02/03/08	02/03/08	
1,1-Dichloroethene	EPA 8260B	8B03021	0.42	1.0	ND	1	02/03/08	02/03/08	
trans-1,2-Dichloroethene	EPA 8260B	8B03021	0.27	1.0	ND	1	02/03/08	02/03/08	
2,2-Dichloropropane	EPA 8260B	8B03021	0.34	1.0	ND	1	02/03/08	02/03/08	
1,2-Dichloropropane	EPA 8260B	8B03021	0.35	1.0	ND	1	02/03/08	02/03/08	
cis-1,3-Dichloropropene	EPA 8260B	8B03021	0.22	0.50	ND	1	02/03/08	02/03/08	
1,1-Dichloropropene	EPA 8260B	8B03021	0.28	1.0	ND	1	02/03/08	02/03/08	
trans-1,3-Dichloropropene	EPA 8260B	8B03021	0.32	0.50	ND	1	02/03/08	02/03/08	
Ethylbenzene	EPA 8260B	8B03021	0.25	1.0	ND	1	02/03/08	02/03/08	
Hexachlorobutadiene	EPA 8260B	8B03021	0.38	1.0	ND	1	02/03/08	02/03/08	
2-Hexanone	EPA 8260B	8B03021	2.6	6.0	ND	1	02/03/08	02/03/08	
Iodomethane	EPA 8260B	8B03021	1.0	2.0	ND	1	02/03/08	02/03/08	
Isopropylbenzene	EPA 8260B	8B03021	0.25	1.0	ND	1	02/03/08	02/03/08	

TestAmerica Irvine

Trupti Mistry
Project Manager

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
17461 Derian Avenue. Suite 100, Irvine, CA 92614 (949) 261-1022 Fax:(949) 260-3297

Avocet Environmental Inc.
16 Technology Drive, Suite 154
Irvine, CA 92618
Attention: Michael Rendina

Project ID: Boeing C-6 Torrance
1155.002
Report Number: IRA2908

Sampled: 01/30/08
Received: 01/30/08

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Sample ID: IRA2908-01 (TB_AV20080130_01 - Water) - cont.
Reporting Units: ug/l

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
p-Isopropyltoluene	EPA 8260B	8B03021	0.28	1.0	ND	1	02/03/08	02/03/08	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	8B03021	0.32	1.0	ND	1	02/03/08	02/03/08	
Methylene chloride	EPA 8260B	8B03021	0.95	1.0	ND	1	02/03/08	02/03/08	
4-Methyl-2-pentanone (MIBK)	EPA 8260B	8B03021	3.5	5.0	ND	1	02/03/08	02/03/08	
n-Propylbenzene	EPA 8260B	8B03021	0.27	1.0	ND	1	02/03/08	02/03/08	
Styrene	EPA 8260B	8B03021	0.16	1.0	ND	1	02/03/08	02/03/08	
1,1,1,2-Tetrachloroethane	EPA 8260B	8B03021	0.27	1.0	ND	1	02/03/08	02/03/08	
1,1,2,2-Tetrachloroethane	EPA 8260B	8B03021	0.24	1.0	ND	1	02/03/08	02/03/08	
Tetrachloroethene	EPA 8260B	8B03021	0.32	1.0	ND	1	02/03/08	02/03/08	
Tetrahydrofuran (THF)	EPA 8260B	8B03021	3.5	10	**6.7**	1	02/03/08	02/03/08	B, Ja
Toluene	EPA 8260B	8B03021	0.36	1.0	ND	1	02/03/08	02/03/08	
1,2,3-Trichlorobenzene	EPA 8260B	8B03021	0.30	1.0	ND	1	02/03/08	02/03/08	
1,2,4-Trichlorobenzene	EPA 8260B	8B03021	0.48	1.0	ND	1	02/03/08	02/03/08	
1,1,1-Trichloroethane	EPA 8260B	8B03021	0.30	1.0	ND	1	02/03/08	02/03/08	
1,1,2-Trichloroethane	EPA 8260B	8B03021	0.30	1.0	ND	1	02/03/08	02/03/08	
Trichloroethene	EPA 8260B	8B03021	0.26	1.0	ND	1	02/03/08	02/03/08	
Trichlorofluoromethane	EPA 8260B	8B03021	0.34	2.0	ND	1	02/03/08	02/03/08	
1,2,3-Trichloropropane	EPA 8260B	8B03021	0.40	1.0	ND	1	02/03/08	02/03/08	
1,3,5-Trimethylbenzene	EPA 8260B	8B03021	0.26	1.0	ND	1	02/03/08	02/03/08	
1,2,4-Trimethylbenzene	EPA 8260B	8B03021	0.23	1.0	ND	1	02/03/08	02/03/08	
Vinyl acetate	EPA 8260B	8B03021	1.0	6.0	ND	1	02/03/08	02/03/08	
Vinyl chloride	EPA 8260B	8B03021	0.30	0.50	ND	1	02/03/08	02/03/08	
Xylenes, Total	EPA 8260B	8B03021	0.90	1.0	ND	1	02/03/08	02/03/08	
Surrogate: Dibromofluoromethane (80-120%)					*110 %*				
Surrogate: Toluene-d8 (80-120%)					*102 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)					*91 %*				

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Project Manager

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BOE-C6-0188260

Avocet Environmental Inc.
16 Technology Drive, Suite 154
Irvine, CA 92618
Attention: Michael Rendina

Project ID: Boeing C-6 Torrance
1155.002
Report Number: IRA2908

Sampled: 01/30/08
Received: 01/30/08

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRA2908-02 (EB_AV20080130_01 - Water)									
Reporting Units: ug/l									
Acetone	EPA 8260B	8B03021	4.5	10	**9.4**	1	02/03/08	02/03/08	Ja
Benzene	EPA 8260B	8B03021	0.28	1.0	ND	1	02/03/08	02/03/08	
Bromobenzene	EPA 8260B	8B03021	0.27	1.0	ND	1	02/03/08	02/03/08	
Bromochloromethane	EPA 8260B	8B03021	0.32	1.0	ND	1	02/03/08	02/03/08	
Bromodichloromethane	EPA 8260B	8B03021	0.30	1.0	ND	1	02/03/08	02/03/08	
Bromoform	EPA 8260B	8B03021	0.40	1.0	ND	1	02/03/08	02/03/08	
Bromomethane	EPA 8260B	8B03021	0.42	1.0	ND	1	02/03/08	02/03/08	
2-Butanone (MEK)	EPA 8260B	8B03021	4.7	5.0	ND	1	02/03/08	02/03/08	
tert-Butylbenzene	EPA 8260B	8B03021	0.22	1.0	ND	1	02/03/08	02/03/08	
n-Butylbenzene	EPA 8260B	8B03021	0.37	1.0	ND	1	02/03/08	02/03/08	
sec-Butylbenzene	EPA 8260B	8B03021	0.25	1.0	ND	1	02/03/08	02/03/08	
Carbon Disulfide	EPA 8260B	8B03021	0.48	1.0	ND	1	02/03/08	02/03/08	
Carbon tetrachloride	EPA 8260B	8B03021	0.28	0.50	ND	1	02/03/08	02/03/08	
Chlorobenzene	EPA 8260B	8B03021	0.36	1.0	ND	1	02/03/08	02/03/08	
Chloroethane	EPA 8260B	8B03021	0.40	2.0	ND	1	02/03/08	02/03/08	
Chloroform	EPA 8260B	8B03021	0.33	1.0	**0.59**	1	02/03/08	02/03/08	Ja
Chloromethane	EPA 8260B	8B03021	0.40	2.0	ND	1	02/03/08	02/03/08	
2-Chlorotoluene	EPA 8260B	8B03021	0.28	1.0	ND	1	02/03/08	02/03/08	
4-Chlorotoluene	EPA 8260B	8B03021	0.29	1.0	ND	1	02/03/08	02/03/08	
1,2-Dibromo-3-chloropropane	EPA 8260B	8B03021	0.97	2.0	ND	1	02/03/08	02/03/08	
Dibromochloromethane	EPA 8260B	8B03021	0.28	1.0	ND	1	02/03/08	02/03/08	
1,2-Dibromoethane (EDB)	EPA 8260B	8B03021	0.40	1.0	ND	1	02/03/08	02/03/08	
1,3-Dichlorobenzene	EPA 8260B	8B03021	0.35	1.0	ND	1	02/03/08	02/03/08	
1,4-Dichlorobenzene	EPA 8260B	8B03021	0.37	1.0	ND	1	02/03/08	02/03/08	
1,2-Dichlorobenzene	EPA 8260B	8B03021	0.32	1.0	ND	1	02/03/08	02/03/08	
Dichlorodifluoromethane	EPA 8260B	8B03021	0.26	1.0	ND	1	02/03/08	02/03/08	
1,1-Dichloroethane	EPA 8260B	8B03021	0.27	1.0	ND	1	02/03/08	02/03/08	
1,2-Dichloroethane	EPA 8260B	8B03021	0.28	0.50	ND	1	02/03/08	02/03/08	
cis-1,2-Dichloroethene	EPA 8260B	8B03021	0.32	1.0	ND	1	02/03/08	02/03/08	
1,1-Dichloroethene	EPA 8260B	8B03021	0.42	1.0	ND	1	02/03/08	02/03/08	
trans-1,2-Dichloroethene	EPA 8260B	8B03021	0.27	1.0	ND	1	02/03/08	02/03/08	
2,2-Dichloropropane	EPA 8260B	8B03021	0.34	1.0	ND	1	02/03/08	02/03/08	
1,2-Dichloropropane	EPA 8260B	8B03021	0.35	1.0	ND	1	02/03/08	02/03/08	
cis-1,3-Dichloropropene	EPA 8260B	8B03021	0.22	0.50	ND	1	02/03/08	02/03/08	
1,1-Dichloropropene	EPA 8260B	8B03021	0.28	1.0	ND	1	02/03/08	02/03/08	
trans-1,3-Dichloropropene	EPA 8260B	8B03021	0.32	0.50	ND	1	02/03/08	02/03/08	
Ethylbenzene	EPA 8260B	8B03021	0.25	1.0	ND	1	02/03/08	02/03/08	
Hexachlorobutadiene	EPA 8260B	8B03021	0.38	1.0	ND	1	02/03/08	02/03/08	
2-Hexanone	EPA 8260B	8B03021	2.6	6.0	ND	1	02/03/08	02/03/08	
Iodomethane	EPA 8260B	8B03021	1.0	2.0	ND	1	02/03/08	02/03/08	
Isopropylbenzene	EPA 8260B	8B03021	0.25	1.0	ND	1	02/03/08	02/03/08	

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THE LEADER IN ENVIRONMENTAL TESTING
17461 Derian Avenue. Suite 100, Irvine, CA 92614 (949) 261-1022 Fax:(949) 260-3297

Avocet Environmental Inc.
16 Technology Drive, Suite 154
Irvine, CA 92618
Attention: Michael Rendina

Project ID: Boeing C-6 Torrance
1155.002
Report Number: IRA2908

Sampled: 01/30/08
Received: 01/30/08

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRA2908-02 (EB_AV20080130_01 - Water) - cont.									
Reporting Units: ug/l									
p-Isopropyltoluene	EPA 8260B	8B03021	0.28	1.0	ND	1	02/03/08	02/03/08	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	8B03021	0.32	1.0	ND	1	02/03/08	02/03/08	
Methylene chloride	EPA 8260B	8B03021	0.95	1.0	ND	1	02/03/08	02/03/08	
4-Methyl-2-pentanone (MIBK)	EPA 8260B	8B03021	3.5	5.0	ND	1	02/03/08	02/03/08	
n-Propylbenzene	EPA 8260B	8B03021	0.27	1.0	ND	1	02/03/08	02/03/08	
Styrene	EPA 8260B	8B03021	0.16	1.0	ND	1	02/03/08	02/03/08	
1,1,1,2-Tetrachloroethane	EPA 8260B	8B03021	0.27	1.0	ND	1	02/03/08	02/03/08	
1,1,2,2-Tetrachloroethane	EPA 8260B	8B03021	0.24	1.0	ND	1	02/03/08	02/03/08	
Tetrachloroethene	EPA 8260B	8B03021	0.32	1.0	ND	1	02/03/08	02/03/08	
Tetrahydrofuran (THF)	EPA 8260B	8B03021	3.5	10	**3.7**	1	02/03/08	02/03/08	B, Ja
Toluene	EPA 8260B	8B03021	0.36	1.0	ND	1	02/03/08	02/03/08	
1,2,3-Trichlorobenzene	EPA 8260B	8B03021	0.30	1.0	ND	1	02/03/08	02/03/08	
1,2,4-Trichlorobenzene	EPA 8260B	8B03021	0.48	1.0	ND	1	02/03/08	02/03/08	
1,1,1-Trichloroethane	EPA 8260B	8B03021	0.30	1.0	ND	1	02/03/08	02/03/08	
1,1,2-Trichloroethane	EPA 8260B	8B03021	0.30	1.0	ND	1	02/03/08	02/03/08	
Trichloroethene	EPA 8260B	8B03021	0.26	1.0	ND	1	02/03/08	02/03/08	
Trichlorofluoromethane	EPA 8260B	8B03021	0.34	2.0	ND	1	02/03/08	02/03/08	
1,2,3-Trichloropropane	EPA 8260B	8B03021	0.40	1.0	ND	1	02/03/08	02/03/08	
1,3,5-Trimethylbenzene	EPA 8260B	8B03021	0.26	1.0	ND	1	02/03/08	02/03/08	
1,2,4-Trimethylbenzene	EPA 8260B	8B03021	0.23	1.0	ND	1	02/03/08	02/03/08	
Vinyl acetate	EPA 8260B	8B03021	1.0	6.0	ND	1	02/03/08	02/03/08	
Vinyl chloride	EPA 8260B	8B03021	0.30	0.50	ND	1	02/03/08	02/03/08	
Xylenes, Total	EPA 8260B	8B03021	0.90	1.0	ND	1	02/03/08	02/03/08	
Surrogate: Dibromofluoromethane (80-120%)					*112 %*				
Surrogate: Toluene-d8 (80-120%)					*102 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)					*91 %*				

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Project Manager

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BOE-C6-0188261

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
17461 Derian Avenue. Suite 100, Irvine, CA 92614 (949) 261-1022 Fax:(949) 260-3297

Avocet Environmental Inc.
16 Technology Drive, Suite 154
Irvine, CA 92618
Attention: Michael Rendina

Project ID: Boeing C-6 Torrance
1155.002
Report Number: IRA2908

Sampled: 01/30/08
Received: 01/30/08

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Sample ID: IRA2908-03 (AW0075UB_WG20080130_01 - Water)
Reporting Units: ug/l

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Acetone	EPA 8260B	8B03021	180	400	**5100**	40	02/03/08	02/03/08	
Benzene	EPA 8260B	8B03021	11	40	**95**	40	02/03/08	02/03/08	
Bromobenzene	EPA 8260B	8B03021	11	40	ND	40	02/03/08	02/03/08	
Bromochloromethane	EPA 8260B	8B03021	13	40	ND	40	02/03/08	02/03/08	
Bromodichloromethane	EPA 8260B	8B03021	12	40	ND	40	02/03/08	02/03/08	
Bromoform	EPA 8260B	8B03021	16	40	ND	40	02/03/08	02/03/08	
Bromomethane	EPA 8260B	8B03021	17	40	ND	40	02/03/08	02/03/08	
tert-Butylbenzene	EPA 8260B	8B03021	8.8	40	ND	40	02/03/08	02/03/08	
n-Butylbenzene	EPA 8260B	8B03021	15	40	ND	40	02/03/08	02/03/08	
sec-Butylbenzene	EPA 8260B	8B03021	10	40	ND	40	02/03/08	02/03/08	
Carbon Disulfide	EPA 8260B	8B03021	19	40	ND	40	02/03/08	02/03/08	
Carbon tetrachloride	EPA 8260B	8B03021	11	20	ND	40	02/03/08	02/03/08	
Chlorobenzene	EPA 8260B	8B03021	14	40	ND	40	02/03/08	02/03/08	
Chloroethane	EPA 8260B	8B03021	16	80	ND	40	02/03/08	02/03/08	
Chloroform	EPA 8260B	8B03021	13	40	**40**	40	02/03/08	02/03/08	
Chloromethane	EPA 8260B	8B03021	16	80	ND	40	02/03/08	02/03/08	
2-Chlorotoluene	EPA 8260B	8B03021	11	40	ND	40	02/03/08	02/03/08	
4-Chlorotoluene	EPA 8260B	8B03021	12	40	ND	40	02/03/08	02/03/08	
1,2-Dibromo-3-chloropropane	EPA 8260B	8B03021	39	80	ND	40	02/03/08	02/03/08	
Dibromochloromethane	EPA 8260B	8B03021	11	40	ND	40	02/03/08	02/03/08	
1,2-Dibromoethane (EDB)	EPA 8260B	8B03021	16	40	ND	40	02/03/08	02/03/08	
1,3-Dichlorobenzene	EPA 8260B	8B03021	14	40	ND	40	02/03/08	02/03/08	
1,4-Dichlorobenzene	EPA 8260B	8B03021	15	40	ND	40	02/03/08	02/03/08	
1,2-Dichlorobenzene	EPA 8260B	8B03021	13	40	ND	40	02/03/08	02/03/08	
Dichlorodifluoromethane	EPA 8260B	8B03021	10	40	ND	40	02/03/08	02/03/08	
1,1-Dichloroethane	EPA 8260B	8B03021	11	40	**560**	40	02/03/08	02/03/08	
1,2-Dichloroethane	EPA 8260B	8B03021	11	20	**140**	40	02/03/08	02/03/08	
cis-1,2-Dichloroethene	EPA 8260B	8B03021	13	40	**8000**	40	02/03/08	02/03/08	
trans-1,2-Dichloroethene	EPA 8260B	8B03021	11	40	**390**	40	02/03/08	02/03/08	
2,2-Dichloropropane	EPA 8260B	8B03021	14	40	ND	40	02/03/08	02/03/08	
1,2-Dichloropropane	EPA 8260B	8B03021	14	40	ND	40	02/03/08	02/03/08	
cis-1,3-Dichloropropene	EPA 8260B	8B03021	8.8	20	ND	40	02/03/08	02/03/08	
1,1-Dichloropropene	EPA 8260B	8B03021	11	40	ND	40	02/03/08	02/03/08	
trans-1,3-Dichloropropene	EPA 8260B	8B03021	13	20	ND	40	02/03/08	02/03/08	
Ethylbenzene	EPA 8260B	8B03021	10	40	**17**	40	02/03/08	02/03/08	Ja
Hexachlorobutadiene	EPA 8260B	8B03021	15	40	ND	40	02/03/08	02/03/08	
2-Hexanone	EPA 8260B	8B03021	100	240	ND	40	02/03/08	02/03/08	
Iodomethane	EPA 8260B	8B03021	40	80	ND	40	02/03/08	02/03/08	
Isopropylbenzene	EPA 8260B	8B03021	10	40	ND	40	02/03/08	02/03/08	
p-Isopropyltoluene	EPA 8260B	8B03021	11	40	ND	40	02/03/08	02/03/08	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	8B03021	13	40	ND	40	02/03/08	02/03/08	

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Project Manager

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17461 Derian Avenue. Suite 100, Irvine, CA 92614 (949) 261-1022 Fax:(949) 260-3297

Avocet Environmental Inc.
16 Technology Drive, Suite 154
Irvine, CA 92618
Attention: Michael Rendina

Project ID: Boeing C-6 Torrance
1155.002
Report Number: IRA2908

Sampled: 01/30/08
Received: 01/30/08

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Sample ID: IRA2908-03 (AW0075UB_WG20080130_01 - Water) - cont.
Reporting Units: ug/l

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Methylene chloride	EPA 8260B	8B03021	38	40	ND	40	02/03/08	02/03/08	
n-Propylbenzene	EPA 8260B	8B03021	11	40	ND	40	02/03/08	02/03/08	
Styrene	EPA 8260B	8B03021	6.4	40	ND	40	02/03/08	02/03/08	
1,1,1,2-Tetrachloroethane	EPA 8260B	8B03021	11	40	ND	40	02/03/08	02/03/08	
1,1,2,2-Tetrachloroethane	EPA 8260B	8B03021	9.6	40	ND	40	02/03/08	02/03/08	
Tetrachloroethene	EPA 8260B	8B03021	13	40	ND	40	02/03/08	02/03/08	
Tetrahydrofuran (THF)	EPA 8260B	8B03021	140	400	**270**	40	02/03/08	02/03/08	Ja
1,2,3-Trichlorobenzene	EPA 8260B	8B03021	12	40	ND	40	02/03/08	02/03/08	
1,2,4-Trichlorobenzene	EPA 8260B	8B03021	19	40	ND	40	02/03/08	02/03/08	
1,1,1-Trichloroethane	EPA 8260B	8B03021	12	40	**350**	40	02/03/08	02/03/08	
1,1,2-Trichloroethane	EPA 8260B	8B03021	12	40	**82**	40	02/03/08	02/03/08	
Trichloroethene	EPA 8260B	8B03021	10	40	**460**	40	02/03/08	02/03/08	
Trichlorofluoromethane	EPA 8260B	8B03021	14	80	ND	40	02/03/08	02/03/08	
1,2,3-Trichloropropane	EPA 8260B	8B03021	16	40	ND	40	02/03/08	02/03/08	
1,3,5-Trimethylbenzene	EPA 8260B	8B03021	10	40	ND	40	02/03/08	02/03/08	
1,2,4-Trimethylbenzene	EPA 8260B	8B03021	9.2	40	ND	40	02/03/08	02/03/08	
Vinyl acetate	EPA 8260B	8B03021	40	240	ND	40	02/03/08	02/03/08	
Vinyl chloride	EPA 8260B	8B03021	12	20	**1000**	40	02/03/08	02/03/08	
Xylenes, Total	EPA 8260B	8B03021	36	40	**95**	40	02/03/08	02/03/08	
Surrogate: Dibromofluoromethane (80-120%)					*115 %*				
Surrogate: Toluene-d8 (80-120%)					*110 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)					*92 %*				

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BOE-C6-0188262

Avocet Environmental Inc.
16 Technology Drive, Suite 154
Irvine, CA 92618
Attention: Michael Rendina

Project ID: Boeing C-6 Torrance
1155.002
Report Number: IRA2908

Sampled: 01/30/08
Received: 01/30/08

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRA2908-03RE1 (AW0075UB_WG20080130_01 - Water) - cont.									
Reporting Units: ug/l									
2-Butanone (MEK)	EPA 8260B	8B03021	940	1000	**11000**	200	02/03/08	02/03/08	
1,1-Dichloroethene	EPA 8260B	8B03021	84	200	**14000**	200	02/03/08	02/03/08	
4-Methyl-2-pentanone (MIBK)	EPA 8260B	8B03021	700	1000	**26000**	200	02/03/08	02/03/08	
Toluene	EPA 8260B	8B03021	72	200	**18000**	200	02/03/08	02/03/08	
Surrogate: Dibromofluoromethane (80-120%)					*113 %*				
Surrogate: Toluene-d8 (80-120%)					*104 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)					*91 %*				

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Project Manager

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THE LEADER IN ENVIRONMENTAL TESTING
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Avocet Environmental Inc.
16 Technology Drive, Suite 154
Irvine, CA 92618
Attention: Michael Rendina

Project ID: Boeing C-6 Torrance
1155.002
Report Number: IRA2908

Sampled: 01/30/08
Received: 01/30/08

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRA2908-04 (AW0076UB_WG20080130_01 - Water)									
Reporting Units: ug/l									
Benzene	EPA 8260B	8B03021	14	50	**90**	50	02/03/08	02/03/08	
Bromobenzene	EPA 8260B	8B03021	14	50	ND	50	02/03/08	02/03/08	
Bromochloromethane	EPA 8260B	8B03021	16	50	ND	50	02/03/08	02/03/08	
Bromodichloromethane	EPA 8260B	8B03021	15	50	ND	50	02/03/08	02/03/08	
Bromoform	EPA 8260B	8B03021	20	50	ND	50	02/03/08	02/03/08	
Bromomethane	EPA 8260B	8B03021	21	50	ND	50	02/03/08	02/03/08	
tert-Butylbenzene	EPA 8260B	8B03021	11	50	ND	50	02/03/08	02/03/08	
n-Butylbenzene	EPA 8260B	8B03021	18	50	ND	50	02/03/08	02/03/08	
sec-Butylbenzene	EPA 8260B	8B03021	12	50	ND	50	02/03/08	02/03/08	
Carbon Disulfide	EPA 8260B	8B03021	24	50	ND	50	02/03/08	02/03/08	
Carbon tetrachloride	EPA 8260B	8B03021	14	25	ND	50	02/03/08	02/03/08	
Chlorobenzene	EPA 8260B	8B03021	18	50	ND	50	02/03/08	02/03/08	
Chloroethane	EPA 8260B	8B03021	20	100	ND	50	02/03/08	02/03/08	
Chloroform	EPA 8260B	8B03021	16	50	**59**	50	02/03/08	02/03/08	
Chloromethane	EPA 8260B	8B03021	20	100	ND	50	02/03/08	02/03/08	
2-Chlorotoluene	EPA 8260B	8B03021	14	50	ND	50	02/03/08	02/03/08	
4-Chlorotoluene	EPA 8260B	8B03021	14	50	ND	50	02/03/08	02/03/08	
1,2-Dibromo-3-chloropropane	EPA 8260B	8B03021	48	100	ND	50	02/03/08	02/03/08	
Dibromochloromethane	EPA 8260B	8B03021	14	50	ND	50	02/03/08	02/03/08	
1,2-Dibromoethane (EDB)	EPA 8260B	8B03021	20	50	ND	50	02/03/08	02/03/08	
1,3-Dichlorobenzene	EPA 8260B	8B03021	18	50	ND	50	02/03/08	02/03/08	
1,4-Dichlorobenzene	EPA 8260B	8B03021	18	50	ND	50	02/03/08	02/03/08	
1,2-Dichlorobenzene	EPA 8260B	8B03021	16	50	ND	50	02/03/08	02/03/08	
Dichlorodifluoromethane	EPA 8260B	8B03021	13	50	ND	50	02/03/08	02/03/08	
1,1-Dichloroethane	EPA 8260B	8B03021	14	50	**1300**	50	02/03/08	02/03/08	
1,2-Dichloroethane	EPA 8260B	8B03021	14	25	**320**	50	02/03/08	02/03/08	
cis-1,2-Dichloroethene	EPA 8260B	8B03021	16	50	**11000**	50	02/03/08	02/03/08	
1,1-Dichloroethene	EPA 8260B	8B03021	21	50	**11000**	50	02/03/08	02/03/08	
trans-1,2-Dichloroethene	EPA 8260B	8B03021	14	50	**570**	50	02/03/08	02/03/08	
2,2-Dichloropropane	EPA 8260B	8B03021	17	50	ND	50	02/03/08	02/03/08	
1,2-Dichloropropane	EPA 8260B	8B03021	18	50	ND	50	02/03/08	02/03/08	
cis-1,3-Dichloropropene	EPA 8260B	8B03021	11	25	ND	50	02/03/08	02/03/08	
1,1-Dichloropropene	EPA 8260B	8B03021	14	50	ND	50	02/03/08	02/03/08	
trans-1,3-Dichloropropene	EPA 8260B	8B03021	16	25	ND	50	02/03/08	02/03/08	
Ethylbenzene	EPA 8260B	8B03021	12	50	**14**	50	02/03/08	02/03/08	Ja
Hexachlorobutadiene	EPA 8260B	8B03021	19	50	ND	50	02/03/08	02/03/08	
2-Hexanone	EPA 8260B	8B03021	130	300	ND	50	02/03/08	02/03/08	
Iodomethane	EPA 8260B	8B03021	50	100	ND	50	02/03/08	02/03/08	
Isopropylbenzene	EPA 8260B	8B03021	12	50	ND	50	02/03/08	02/03/08	
p-Isopropyltoluene	EPA 8260B	8B03021	14	50	ND	50	02/03/08	02/03/08	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	8B03021	16	50	ND	50	02/03/08	02/03/08	

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BOE-C6-0188263

Avocet Environmental Inc.
16 Technology Drive, Suite 154
Irvine, CA 92618
Attention: Michael Rendina

Project ID: Boeing C-6 Torrance
1155.002
Report Number: IRA2908

Sampled: 01/30/08
Received: 01/30/08

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRA2908-04 (AW0076UB_WG20080130_01 - Water) - cont.									
Reporting Units: ug/l									
Methylene chloride	EPA 8260B	8B03021	48	50	ND	50	02/03/08	02/03/08	
n-Propylbenzene	EPA 8260B	8B03021	14	50	ND	50	02/03/08	02/03/08	
Styrene	EPA 8260B	8B03021	8.0	50	ND	50	02/03/08	02/03/08	
1,1,1,2-Tetrachloroethane	EPA 8260B	8B03021	14	50	ND	50	02/03/08	02/03/08	
1,1,2,2-Tetrachloroethane	EPA 8260B	8B03021	12	50	ND	50	02/03/08	02/03/08	
Tetrachloroethene	EPA 8260B	8B03021	16	50	ND	50	02/03/08	02/03/08	
Tetrahydrofuran (THF)	EPA 8260B	8B03021	180	500	**270**	50	02/03/08	02/03/08	Ja
1,2,3-Trichlorobenzene	EPA 8260B	8B03021	15	50	ND	50	02/03/08	02/03/08	
1,2,4-Trichlorobenzene	EPA 8260B	8B03021	24	50	ND	50	02/03/08	02/03/08	
1,1,1-Trichloroethane	EPA 8260B	8B03021	15	50	**22**	50	02/03/08	02/03/08	Ja
1,1,2-Trichloroethane	EPA 8260B	8B03021	15	50	**170**	50	02/03/08	02/03/08	
Trichloroethene	EPA 8260B	8B03021	13	50	**28**	50	02/03/08	02/03/08	Ja
Trichlorofluoromethane	EPA 8260B	8B03021	17	100	ND	50	02/03/08	02/03/08	
1,2,3-Trichloropropane	EPA 8260B	8B03021	20	50	ND	50	02/03/08	02/03/08	
1,3,5-Trimethylbenzene	EPA 8260B	8B03021	13	50	ND	50	02/03/08	02/03/08	
1,2,4-Trimethylbenzene	EPA 8260B	8B03021	12	50	ND	50	02/03/08	02/03/08	
Vinyl acetate	EPA 8260B	8B03021	50	300	ND	50	02/03/08	02/03/08	
Vinyl chloride	EPA 8260B	8B03021	15	25	**4000**	50	02/03/08	02/03/08	
Xylenes, Total	EPA 8260B	8B03021	45	50	**130**	50	02/03/08	02/03/08	
Surrogate: Dibromofluoromethane (80-120%)					*113 %*				
Surrogate: Toluene-d8 (80-120%)					*106 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)					*92 %*				

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Avocet Environmental Inc.
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Project ID: Boeing C-6 Torrance
1155.002
Report Number: IRA2908

Sampled: 01/30/08
Received: 01/30/08

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRA2908-04RE1 (AW0076UB_WG20080130_01 - Water) - cont.									
Reporting Units: ug/l									
Acetone	EPA 8260B	8B03021	1100	2500	**39000**	250	02/03/08	02/03/08	
4-Methyl-2-pentanone (MIBK)	EPA 8260B	8B03021	880	1200	**24000**	250	02/03/08	02/03/08	
Toluene	EPA 8260B	8B03021	90	250	**15000**	250	02/03/08	02/03/08	
Surrogate: Dibromofluoromethane (80-120%)					*116 %*				
Surrogate: Toluene-d8 (80-120%)					*105 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)					*90 %*				

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BOE-C6-0188264

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17461 Derian Avenue. Suite 100, Irvine, CA 92614 (949) 261-1022 Fax:(949) 260-3297

Avocet Environmental Inc.
16 Technology Drive, Suite 154
Irvine, CA 92618
Attention: Michael Rendina

Project ID: Boeing C-6 Torrance
1155.002
Report Number: IRA2908

Sampled: 01/30/08
Received: 01/30/08

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRA2908-04RE2 (AW0076UB_WG20080130_01 - Water) - cont.									
Reporting Units: ug/l									
2-Butanone (MEK)	EPA 8260B	8B04007	12000	12000	**140000**	2500	02/04/08	02/04/08	
Surrogate: Dibromofluoromethane (80-120%)					*107 %*				
Surrogate: Toluene-d8 (80-120%)					*102 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)					*91 %*				

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THE LEADER IN ENVIRONMENTAL TESTING
17461 Derian Avenue. Suite 100, Irvine, CA 92614 (949) 261-1022 Fax:(949) 260-3297

Avocet Environmental Inc.
16 Technology Drive, Suite 154
Irvine, CA 92618
Attention: Michael Rendina

Project ID: Boeing C-6 Torrance
1155.002
Report Number: IRA2908

Sampled: 01/30/08
Received: 01/30/08

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRA2908-05 (AW0077UB_WG20080130_01 - Water)									
Reporting Units: ug/l									
Acetone	EPA 8260B	8B03021	180	400	**1000**	40	02/03/08	02/03/08	
Benzene	EPA 8260B	8B03021	11	40	**43**	40	02/03/08	02/03/08	
Bromobenzene	EPA 8260B	8B03021	11	40	ND	40	02/03/08	02/03/08	
Bromochloromethane	EPA 8260B	8B03021	13	40	ND	40	02/03/08	02/03/08	
Bromodichloromethane	EPA 8260B	8B03021	12	40	ND	40	02/03/08	02/03/08	
Bromoform	EPA 8260B	8B03021	16	40	ND	40	02/03/08	02/03/08	
Bromomethane	EPA 8260B	8B03021	17	40	ND	40	02/03/08	02/03/08	
tert-Butylbenzene	EPA 8260B	8B03021	8.8	40	ND	40	02/03/08	02/03/08	
n-Butylbenzene	EPA 8260B	8B03021	15	40	ND	40	02/03/08	02/03/08	
sec-Butylbenzene	EPA 8260B	8B03021	10	40	ND	40	02/03/08	02/03/08	
Carbon Disulfide	EPA 8260B	8B03021	19	40	ND	40	02/03/08	02/03/08	
Carbon tetrachloride	EPA 8260B	8B03021	11	20	ND	40	02/03/08	02/03/08	
Chlorobenzene	EPA 8260B	8B03021	14	40	ND	40	02/03/08	02/03/08	
Chloroethane	EPA 8260B	8B03021	16	80	ND	40	02/03/08	02/03/08	
Chloroform	EPA 8260B	8B03021	13	40	ND	40	02/03/08	02/03/08	
Chloromethane	EPA 8260B	8B03021	16	80	ND	40	02/03/08	02/03/08	
2-Chlorotoluene	EPA 8260B	8B03021	11	40	ND	40	02/03/08	02/03/08	
4-Chlorotoluene	EPA 8260B	8B03021	12	40	ND	40	02/03/08	02/03/08	
1,2-Dibromo-3-chloropropane	EPA 8260B	8B03021	39	80	ND	40	02/03/08	02/03/08	
Dibromochloromethane	EPA 8260B	8B03021	11	40	ND	40	02/03/08	02/03/08	
1,2-Dibromoethane (EDB)	EPA 8260B	8B03021	16	40	ND	40	02/03/08	02/03/08	
1,3-Dichlorobenzene	EPA 8260B	8B03021	14	40	ND	40	02/03/08	02/03/08	
1,4-Dichlorobenzene	EPA 8260B	8B03021	15	40	ND	40	02/03/08	02/03/08	
1,2-Dichlorobenzene	EPA 8260B	8B03021	13	40	ND	40	02/03/08	02/03/08	
Dichlorodifluoromethane	EPA 8260B	8B03021	10	40	ND	40	02/03/08	02/03/08	
1,1-Dichloroethane	EPA 8260B	8B03021	11	40	**310**	40	02/03/08	02/03/08	
1,2-Dichloroethane	EPA 8260B	8B03021	11	20	**110**	40	02/03/08	02/03/08	
cis-1,2-Dichloroethene	EPA 8260B	8B03021	13	40	**5300**	40	02/03/08	02/03/08	
1,1-Dichloroethene	EPA 8260B	8B03021	17	40	**3100**	40	02/03/08	02/03/08	
trans-1,2-Dichloroethene	EPA 8260B	8B03021	11	40	**260**	40	02/03/08	02/03/08	
2,2-Dichloropropane	EPA 8260B	8B03021	14	40	ND	40	02/03/08	02/03/08	
1,2-Dichloropropane	EPA 8260B	8B03021	14	40	ND	40	02/03/08	02/03/08	
cis-1,3-Dichloropropene	EPA 8260B	8B03021	8.8	20	ND	40	02/03/08	02/03/08	
1,1-Dichloropropene	EPA 8260B	8B03021	11	40	ND	40	02/03/08	02/03/08	
trans-1,3-Dichloropropene	EPA 8260B	8B03021	13	20	ND	40	02/03/08	02/03/08	
Ethylbenzene	EPA 8260B	8B03021	10	40	ND	40	02/03/08	02/03/08	
Hexachlorobutadiene	EPA 8260B	8B03021	15	40	ND	40	02/03/08	02/03/08	
2-Hexanone	EPA 8260B	8B03021	100	240	ND	40	02/03/08	02/03/08	
Iodomethane	EPA 8260B	8B03021	40	80	ND	40	02/03/08	02/03/08	
Isopropylbenzene	EPA 8260B	8B03021	10	40	ND	40	02/03/08	02/03/08	
p-Isopropyltoluene	EPA 8260B	8B03021	11	40	ND	40	02/03/08	02/03/08	

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BOE-C6-0188265

Avocet Environmental Inc.
16 Technology Drive, Suite 154
Irvine, CA 92618
Attention: Michael Rendina

Project ID: Boeing C-6 Torrance
1155.002
Report Number: IRA2908

Sampled: 01/30/08
Received: 01/30/08

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRA2908-05 (AW0077UB_WG20080130_01 - Water) - cont.									
Reporting Units: ug/l									
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	8B03021	13	40	ND	40	02/03/08	02/03/08	
Methylene chloride	EPA 8260B	8B03021	38	40	ND	40	02/03/08	02/03/08	
4-Methyl-2-pentanone (MIBK)	EPA 8260B	8B03021	140	200	**450**	40	02/03/08	02/03/08	
n-Propylbenzene	EPA 8260B	8B03021	11	40	ND	40	02/03/08	02/03/08	
Styrene	EPA 8260B	8B03021	6.4	40	ND	40	02/03/08	02/03/08	
1,1,1,2-Tetrachloroethane	EPA 8260B	8B03021	11	40	ND	40	02/03/08	02/03/08	
1,1,2,2-Tetrachloroethane	EPA 8260B	8B03021	9.6	40	ND	40	02/03/08	02/03/08	
Tetrachloroethene	EPA 8260B	8B03021	13	40	ND	40	02/03/08	02/03/08	
Tetrahydrofuran (THF)	EPA 8260B	8B03021	140	400	**470**	40	02/03/08	02/03/08	
Toluene	EPA 8260B	8B03021	14	40	**590**	40	02/03/08	02/03/08	
1,2,3-Trichlorobenzene	EPA 8260B	8B03021	12	40	ND	40	02/03/08	02/03/08	
1,2,4-Trichlorobenzene	EPA 8260B	8B03021	19	40	ND	40	02/03/08	02/03/08	
1,1,1-Trichloroethane	EPA 8260B	8B03021	12	40	ND	40	02/03/08	02/03/08	
1,1,2-Trichloroethane	EPA 8260B	8B03021	12	40	**38**	40	02/03/08	02/03/08	Ja
Trichloroethene	EPA 8260B	8B03021	10	40	**50**	40	02/03/08	02/03/08	
Trichlorofluoromethane	EPA 8260B	8B03021	14	80	ND	40	02/03/08	02/03/08	
1,2,3-Trichloropropane	EPA 8260B	8B03021	16	40	ND	40	02/03/08	02/03/08	
1,3,5-Trimethylbenzene	EPA 8260B	8B03021	10	40	ND	40	02/03/08	02/03/08	
1,2,4-Trimethylbenzene	EPA 8260B	8B03021	9.2	40	ND	40	02/03/08	02/03/08	
Vinyl acetate	EPA 8260B	8B03021	40	240	ND	40	02/03/08	02/03/08	
Xylenes, Total	EPA 8260B	8B03021	36	40	ND	40	02/03/08	02/03/08	
Surrogate: Dibromofluoromethane (80-120%)					*111 %*				
Surrogate: Toluene-d8 (80-120%)					*102 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)					*90 %*				

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Avocet Environmental Inc.
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Attention: Michael Rendina

Project ID: Boeing C-6 Torrance
1155.002
Report Number: IRA2908

Sampled: 01/30/08
Received: 01/30/08

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRA2908-05RE1 (AW0077UB_WG20080130_01 - Water) - cont.									
Reporting Units: ug/l									
2-Butanone (MEK)	EPA 8260B	8B03021	940	1000	**1300**	200	02/03/08	02/03/08	
Vinyl chloride	EPA 8260B	8B03021	60	100	**8600**	200	02/03/08	02/03/08	
Surrogate: Dibromofluoromethane (80-120%)					*115 %*				
Surrogate: Toluene-d8 (80-120%)					*103 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)					*89 %*				

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BOE-C6-0188266

Avocet Environmental Inc.
16 Technology Drive, Suite 154
Irvine, CA 92618
Attention: Michael Rendina

Project ID: Boeing C-6 Torrance
1155.002
Report Number: IRA2908

Sampled: 01/30/08
Received: 01/30/08

INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRA2908-03 (AW0075UB_WG20080130_01 - Water)									
Reporting Units: mg/l									
Alkalinity as CaCO3	EPA 310.1	8B06057	2.0	2.0	**450**	1	02/06/08	02/06/08	
Chloride	EPA 300.0	8A30051	25	50	**510**	100	01/30/08	01/31/08	
Nitrate-NO3	EPA 300.0	8A30051	0.50	1.0	ND	2	01/30/08	01/30/08	RL1
Nitrite-NO2	EPA 300.0	8A30051	0.60	1.0	**1.4**	2	01/30/08	01/30/08	
Sulfate	EPA 300.0	8A30051	0.40	1.0	**4.0**	2	01/30/08	01/30/08	
Total Dissolved Solids	EPA 160.1	8B05104	10	10	**1700**	1	02/05/08	02/05/08	
Sample ID: IRA2908-04 (AW0076UB_WG20080130_01 - Water)									
Reporting Units: mg/l									
Alkalinity as CaCO3	EPA 310.1	8B06057	2.0	2.0	**710**	1	02/06/08	02/06/08	
Chloride	EPA 300.0	8A30051	25	50	**820**	100	01/30/08	01/31/08	
Nitrate-NO3	EPA 300.0	8A30051	0.50	1.0	ND	2	01/30/08	01/30/08	RL1
Nitrite-NO2	EPA 300.0	8A30051	0.60	1.0	**3.2**	2	01/30/08	01/30/08	
Sulfate	EPA 300.0	8A30051	0.40	1.0	ND	2	01/30/08	01/30/08	RL1
Total Dissolved Solids	EPA 160.1	8B05104	10	10	**2700**	1	02/05/08	02/05/08	
Sample ID: IRA2908-05 (AW0077UB_WG20080130_01 - Water)									
Reporting Units: mg/l									
Alkalinity as CaCO3	EPA 310.1	8B06057	2.0	2.0	**610**	1	02/06/08	02/06/08	
Chloride	EPA 300.0	8A30051	25	50	**500**	100	01/30/08	01/31/08	
Nitrate-NO3	EPA 300.0	8A30051	0.50	1.0	ND	2	01/30/08	01/30/08	RL1
Nitrite-NO2	EPA 300.0	8A30051	0.60	1.0	ND	2	01/30/08	01/30/08	RL1
Sulfate	EPA 300.0	8A30051	0.40	1.0	**3.2**	2	01/30/08	01/30/08	
Total Dissolved Solids	EPA 160.1	8B05104	10	10	**1700**	1	02/05/08	02/05/08	

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Avocet Environmental Inc.
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Attention: Michael Rendina

Project ID: Boeing C-6 Torrance
1155.002
Report Number: IRA2908

Sampled: 01/30/08
Received: 01/30/08

TOTAL ORGANIC CARBON (EPA 9060A MOD.)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRA2908-03 (AW0075UB_WG20080130_01 - Water)									
Reporting Units: mg/l									
Total Organic Carbon	EPA 9060A MOD.	8B12155	5.0	10	**120**	10	02/12/08	02/12/08	
Sample ID: IRA2908-04 (AW0076UB_WG20080130_01 - Water)									
Reporting Units: mg/l									
Total Organic Carbon	EPA 9060A MOD.	8B12155	50	100	**550**	100	02/12/08	02/12/08	
Sample ID: IRA2908-05 (AW0077UB_WG20080130_01 - Water)									
Reporting Units: mg/l									
Total Organic Carbon	EPA 9060A MOD.	8B12155	5.0	10	**150**	10	02/12/08	02/12/08	

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BOE-C6-0188267

Avocet Environmental Inc.
16 Technology Drive, Suite 154
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Attention: Michael Rendina

Project ID: Boeing C-6 Torrance
1155.002
Report Number: IRA2908

Sampled: 01/30/08
Received: 01/30/08

Volatile Fatty Acids

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRA2908-03 (AW0075UB_WG20080130_01 - Water)									
Reporting Units: mg/L									
Acetic Acid	AM23G	M080212016	N/A	7	**120**	100	02/11/08	02/12/08	
Hexanoic Acid	AM23G	M080212014	N/A	0.1	**0.1**	1	02/05/08	02/08/08	U
Lactic Acid and HIBA	AM23G	M080212016	N/A	10	**10**	100	02/11/08	02/12/08	J
Pentanoic Acid	AM23G	M080212014	N/A	0.07	**0.07**	1	02/05/08	02/08/08	U
Propionic Acid	AM23G	M080212016	N/A	0.7	**11**	10	02/11/08	02/11/08	
Pyruvic Acid	AM23G	M080212014	N/A	0.07	**0.56**	1	02/05/08	02/08/08	M
Butyric Acid	AM23G	M080212016	N/A	0.7	**1.4**	10	02/11/08	02/11/08	
i-Hexanoic Acid	AM23G	M080212014	N/A	0.1	**0.1**	1	02/05/08	02/08/08	U
i-Pentanoic Acid	AM23G	M080212014	N/A	0.07	**1.1**	1	02/05/08	02/08/08	
Sample ID: IRA2908-04 (AW0076UB_WG20080130_01 - Water)									
Reporting Units: mg/L									
Acetic Acid	AM23G	M080212016	N/A	7	**350**	100	02/11/08	02/12/08	
Hexanoic Acid	AM23G	M080212014	N/A	0.1	**0.16**	1	02/05/08	02/08/08	
i-Pentanoic Acid	AM23G	M080212016	N/A	0.7	**0.7**	10	02/11/08	02/12/08	U
Lactic Acid and HIBA	AM23G	M080212016	N/A	10	**10**	100	02/11/08	02/12/08	U
Pentanoic Acid	AM23G	M080212014	N/A	0.07	**1**	1	02/05/08	02/08/08	
Propionic Acid	AM23G	M080212016	N/A	0.7	**54**	10	02/11/08	02/12/08	
Butyric Acid	AM23G	M080212016	N/A	0.7	**9.5**	10	02/11/08	02/12/08	
i-Hexanoic Acid	AM23G	M080212014	N/A	0.1	**0.1**	1	02/05/08	02/08/08	U
Pyruvic Acid	AM23G	M080212016	N/A	0.7	**1.2**	10	02/11/08	02/12/08	
Sample ID: IRA2908-05 (AW0077UB_WG20080130_01 - Water)									
Reporting Units: mg/L									
Acetic Acid	AM23G	M080212016	N/A	7	**130**	100	02/11/08	02/12/08	
Hexanoic Acid	AM23G	M080212014	N/A	0.1	**0.6**	1	02/05/08	02/08/08	
Lactic Acid and HIBA	AM23G	M080212016	N/A	10	**10**	100	02/11/08	02/12/08	U
Pentanoic Acid	AM23G	M080212014	N/A	0.07	**0.43**	1	02/05/08	02/08/08	
Propionic Acid	AM23G	M080212016	N/A	0.7	**5.9**	10	02/11/08	02/12/08	
Pyruvic Acid	AM23G	M080212014	N/A	0.07	**1.2**	1	02/05/08	02/08/08	M
Butyric Acid	AM23G	M080212016	N/A	0.7	**5.2**	10	02/11/08	02/12/08	
i-Hexanoic Acid	AM23G	M080212014	N/A	0.1	**0.1**	1	02/05/08	02/08/08	U
i-Pentanoic Acid	AM23G	M080212014	N/A	0.07	**1.1**	1	02/05/08	02/08/08	

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Project ID: Boeing C-6 Torrance
1155.002
Report Number: IRA2908

Sampled: 01/30/08
Received: 01/30/08

PCR

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRA2908-03 (AW0075UB_WG20080130_01 - Water)									
Reporting Units: NONE									
16s rRNA	PCR	1	N/A	NA	+	1	01/31/08	02/04/08	
Sample ID: IRA2908-04 (AW0076UB_WG20080130_01 - Water)									
Reporting Units: NONE									
16s rRNA	PCR	1	N/A	NA	+	1	01/31/08	02/04/08	
Sample ID: IRA2908-05 (AW0077UB_WG20080130_01 - Water)									
Reporting Units: NONE									
16s rRNA	PCR	1	N/A	NA	+	1	01/31/08	02/04/08	

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Project ID: Boeing C-6 Torrance
1155.002
Report Number: IRA2908

Sampled: 01/30/08
Received: 01/30/08

qPCR TaqMan assay

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRA2908-03 (AW0075UB_WG20080130_01 - Water)									
Reporting Units: gene copies/L ground									
16s rRNA DHC sp.	qPCR TaqMan assay	1	N/A	50	**1.11E+08**	1	01/31/08	02/08/08	
bvcA	qPCR TaqMan assay	1	N/A	50	**1.2E+08**	1	01/31/08	02/13/08	
tceA	qPCR TaqMan assay	1	N/A	50	ND	1	01/31/08	02/04/08	
vcrA	qPCR TaqMan assay	1	N/A	50	ND	1	01/31/08	02/04/08	
Sample ID: IRA2908-04 (AW0076UB_WG20080130_01 - Water)									
Reporting Units: gene copies/L ground									
16s rRNA DHC sp.	qPCR TaqMan assay	1	N/A	50	**4.31E+08**	1	01/31/08	02/08/08	
bvcA	qPCR TaqMan assay	1	N/A	50	**4.4E+08**	1	01/31/08	02/13/08	
tceA	qPCR TaqMan assay	1	N/A	50	ND	1	01/31/08	02/04/08	
vcrA	qPCR TaqMan assay	1	N/A	50	ND	1	01/31/08	02/04/08	
Sample ID: IRA2908-05 (AW0077UB_WG20080130_01 - Water)									
Reporting Units: gene copies/L ground									
16s rRNA DHC sp.	qPCR TaqMan assay	1	N/A	50	**8.22E+08**	1	01/31/08	02/08/08	
bvcA	qPCR TaqMan assay	1	N/A	50	**7.2E+09**	1	01/31/08	02/13/08	
tceA	qPCR TaqMan assay	1	N/A	50	ND	1	01/31/08	02/04/08	
vcrA	qPCR TaqMan assay	1	N/A	50	ND	1	01/31/08	02/04/08	

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Project ID: Boeing C-6 Torrance
1155.002
Report Number: IRA2908

Sampled: 01/30/08
Received: 01/30/08

RSK175 Dissolved Gases in Water

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRA2908-03 (AW0075UB_WG20080130_01 - Water)									
Reporting Units: ug/L									
Methane	RSK-175	080206GC8A	N/A	1.0	**33**	1	02/06/08	02/06/08	
Ethane	RSK-175	080206GC8A	N/A	2.0	ND	1	02/06/08	02/06/08	
Ethylene	RSK-175	080206GC8A	N/A	3.0	ND	1	02/06/08	02/06/08	
Sample ID: IRA2908-04 (AW0076UB_WG20080130_01 - Water)									
Reporting Units: ug/L									
Methane	RSK-175	080206GC8A	N/A	1.0	**2.8**	1	02/06/08	02/06/08	
Ethane	RSK-175	080206GC8A	N/A	2.0	ND	1	02/06/08	02/06/08	
Ethylene	RSK-175	080206GC8A	N/A	3.0	**30**	1	02/06/08	02/06/08	
Sample ID: IRA2908-05 (AW0077UB_WG20080130_01 - Water)									
Reporting Units: ug/L									
Methane	RSK-175	080206GC8A	N/A	1.0	**1600**	1	02/06/08	02/06/08	
Ethane	RSK-175	080206GC8A	N/A	2.0	ND	1	02/06/08	02/06/08	
Ethylene	RSK-175	080206GC8A	N/A	3.0	**61**	1	02/06/08	02/06/08	

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Project ID: Boeing C-6 Torrance
1155.002
Report Number: IRA2908

Sampled: 01/30/08
Received: 01/30/08

SHORT HOLD TIME DETAIL REPORT

	Hold Time (in days)	Date/Time Sampled	Date/Time Received	Date/Time Extracted	Date/Time Analyzed
Sample ID: AW0075UB_WG20080130_01 (IRA2908-03) - Water					
EPA 300.0	2	01/30/2008 08:44	01/30/2008 14:20	01/30/2008 15:00	01/30/2008 17:56
Sample ID: AW0076UB_WG20080130_01 (IRA2908-04) - Water					
EPA 300.0	2	01/30/2008 12:17	01/30/2008 14:20	01/30/2008 15:00	01/30/2008 18:14
Sample ID: AW0077UB_WG20080130_01 (IRA2908-05) - Water					
EPA 300.0	2	01/30/2008 10:14	01/30/2008 14:20	01/30/2008 15:00	01/30/2008 18:32

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Project ID: Boeing C-6 Torrance
1155.002
Report Number: IRA2908

Sampled: 01/30/08
Received: 01/30/08

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8B03021 Extracted: 02/03/08											
Blank Analyzed: 02/03/2008 (8B03021-BLK1)											
Acetone	ND	10	4.5	ug/l							
Benzene	ND	1.0	0.28	ug/l							
Bromobenzene	ND	1.0	0.27	ug/l							
Bromochloromethane	ND	1.0	0.32	ug/l							
Bromodichloromethane	ND	1.0	0.30	ug/l							
Bromoform	ND	1.0	0.40	ug/l							
Bromomethane	ND	1.0	0.42	ug/l							
2-Butanone (MEK)	ND	5.0	4.7	ug/l							
tert-Butylbenzene	ND	1.0	0.22	ug/l							
n-Butylbenzene	ND	1.0	0.37	ug/l							
sec-Butylbenzene	ND	1.0	0.25	ug/l							
Carbon Disulfide	ND	1.0	0.48	ug/l							
Carbon tetrachloride	ND	0.50	0.28	ug/l							
Chlorobenzene	ND	1.0	0.36	ug/l							
Chloroethane	ND	2.0	0.40	ug/l							
Chloroform	ND	1.0	0.33	ug/l							
Chloromethane	ND	2.0	0.40	ug/l							
2-Chlorotoluene	ND	1.0	0.28	ug/l							
4-Chlorotoluene	ND	1.0	0.29	ug/l							
1,2-Dibromo-3-chloropropane	ND	2.0	0.97	ug/l							
Dibromochloromethane	ND	1.0	0.28	ug/l							
1,2-Dibromoethane (EDB)	ND	1.0	0.40	ug/l							
1,3-Dichlorobenzene	ND	1.0	0.35	ug/l							
1,4-Dichlorobenzene	ND	1.0	0.37	ug/l							
1,2-Dichlorobenzene	ND	1.0	0.32	ug/l							
Dichlorodifluoromethane	ND	1.0	0.26	ug/l							
1,1-Dichloroethane	ND	1.0	0.27	ug/l							
1,2-Dichloroethane	ND	0.50	0.28	ug/l							
cis-1,2-Dichloroethene	ND	1.0	0.32	ug/l							
1,1-Dichloroethene	ND	1.0	0.42	ug/l							
trans-1,2-Dichloroethene	ND	1.0	0.27	ug/l							
2,2-Dichloropropane	ND	1.0	0.34	ug/l							
1,2-Dichloropropane	ND	1.0	0.35	ug/l							
cis-1,3-Dichloropropene	ND	0.50	0.22	ug/l							
1,1-Dichloropropene	ND	1.0	0.28	ug/l							

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Project ID: Boeing C-6 Torrance
1155.002
Report Number: IRA2908

Sampled: 01/30/08
Received: 01/30/08

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8B03021 Extracted: 02/03/08											
Blank Analyzed: 02/03/2008 (8B03021-BLK1)											
trans-1,3-Dichloropropene	ND	0.50	0.32	ug/l							
Ethylbenzene	ND	1.0	0.25	ug/l							
Hexachlorobutadiene	ND	1.0	0.38	ug/l							
2-Hexanone	ND	6.0	2.6	ug/l							
Iodomethane	ND	2.0	1.0	ug/l							
Isopropylbenzene	ND	1.0	0.25	ug/l							
p-Isopropyltoluene	ND	1.0	0.28	ug/l							
Methyl-tert-butyl Ether (MTBE)	ND	1.0	0.32	ug/l							
Methylene chloride	ND	1.0	0.95	ug/l							
4-Methyl-2-pentanone (MIBK)	ND	5.0	3.5	ug/l							
n-Propylbenzene	ND	1.0	0.27	ug/l							
Styrene	ND	1.0	0.16	ug/l							
1,1,1,2-Tetrachloroethane	ND	1.0	0.27	ug/l							
1,1,2,2-Tetrachloroethane	ND	1.0	0.24	ug/l							
Tetrachloroethene	ND	1.0	0.32	ug/l							
Tetrahydrofuran (THF)	5.95	10	3.5	ug/l							*Ja*
Toluene	ND	1.0	0.36	ug/l							
1,2,3-Trichlorobenzene	ND	1.0	0.30	ug/l							
1,2,4-Trichlorobenzene	ND	1.0	0.48	ug/l							
1,1,1-Trichloroethane	ND	1.0	0.30	ug/l							
1,1,2-Trichloroethane	ND	1.0	0.30	ug/l							
Trichloroethene	ND	1.0	0.26	ug/l							
Trichlorofluoromethane	ND	2.0	0.34	ug/l							
1,2,3-Trichloropropane	ND	1.0	0.40	ug/l							
1,3,5-Trimethylbenzene	ND	1.0	0.26	ug/l							
1,2,4-Trimethylbenzene	ND	1.0	0.23	ug/l							
Vinyl acetate	ND	6.0	1.0	ug/l							
Vinyl chloride	ND	0.50	0.30	ug/l							
Xylenes, Total	ND	1.0	0.90	ug/l							
Surrogate: Dibromofluoromethane	*27.6*			*ug/l*	*25.0*		*110*	*80-120*			
Surrogate: Toluene-d8	*25.4*			*ug/l*	*25.0*		*102*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*22.7*			*ug/l*	*25.0*		*91*	*80-120*			

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Attention: Michael Rendina

Project ID: Boeing C-6 Torrance
1155.002
Report Number: IRA2908

Sampled: 01/30/08
Received: 01/30/08

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8B03021 Extracted: 02/03/08											
LCS Analyzed: 02/03/2008 (8B03021-BS1)											
Acetone	26.4	10	4.5	ug/l	25.0		105	30-140			
Benzene	25.1	1.0	0.28	ug/l	25.0		101	70-120			
Bromobenzene	23.3	1.0	0.27	ug/l	25.0		93	75-120			
Bromochloromethane	25.3	1.0	0.32	ug/l	25.0		101	70-130			
Bromodichloromethane	28.8	1.0	0.30	ug/l	25.0		115	70-135			
Bromoform	21.8	1.0	0.40	ug/l	25.0		87	55-130			
Bromomethane	28.8	1.0	0.42	ug/l	25.0		115	65-140			
2-Butanone (MEK)	27.2	5.0	4.7	ug/l	25.0		109	40-140			
tert-Butylbenzene	23.5	1.0	0.22	ug/l	25.0		94	70-125			
n-Butylbenzene	26.7	1.0	0.37	ug/l	25.0		107	70-130			
sec-Butylbenzene	25.3	1.0	0.25	ug/l	25.0		101	70-125			
Carbon Disulfide	27.6	1.0	0.48	ug/l	25.0		110	50-130			
Carbon tetrachloride	27.6	0.50	0.28	ug/l	25.0		111	65-140			
Chlorobenzene	24.0	1.0	0.36	ug/l	25.0		96	75-120			
Chloroethane	28.4	2.0	0.40	ug/l	25.0		114	60-140			
Chloroform	28.6	1.0	0.33	ug/l	25.0		114	70-130			
Chloromethane	28.7	2.0	0.40	ug/l	25.0		115	50-140			
2-Chlorotoluene	24.7	1.0	0.28	ug/l	25.0		99	70-125			
4-Chlorotoluene	26.0	1.0	0.29	ug/l	25.0		104	75-125			
1,2-Dibromo-3-chloropropane	29.2	2.0	0.97	ug/l	25.0		117	50-135			
Dibromochloromethane	24.4	1.0	0.28	ug/l	25.0		98	70-140			
1,2-Dibromoethane (EDB)	24.4	1.0	0.40	ug/l	25.0		98	75-125			
1,3-Dichlorobenzene	25.6	1.0	0.35	ug/l	25.0		102	75-120			
1,4-Dichlorobenzene	23.7	1.0	0.37	ug/l	25.0		95	75-120			
1,2-Dichlorobenzene	25.9	1.0	0.32	ug/l	25.0		104	75-120			
Dichlorodifluoromethane	35.5	1.0	0.26	ug/l	25.0		142	35-155			
1,1-Dichloroethane	27.8	1.0	0.27	ug/l	25.0		111	70-125			
1,2-Dichloroethane	26.3	0.50	0.28	ug/l	25.0		105	60-140			
cis-1,2-Dichloroethene	27.6	1.0	0.32	ug/l	25.0		110	70-125			
1,1-Dichloroethene	24.7	1.0	0.42	ug/l	25.0		99	70-125			
trans-1,2-Dichloroethene	28.0	1.0	0.27	ug/l	25.0		112	70-125			
2,2-Dichloropropane	29.8	1.0	0.34	ug/l	25.0		119	65-140			
1,2-Dichloropropane	25.7	1.0	0.35	ug/l	25.0		103	70-125			
cis-1,3-Dichloropropene	22.8	0.50	0.22	ug/l	25.0		91	75-125			
1,1-Dichloropropene	25.6	1.0	0.28	ug/l	25.0		102	75-130			

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Project Manager

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BOE-C6-0188271

Avocet Environmental Inc.
16 Technology Drive, Suite 154
Irvine, CA 92618
Attention: Michael Rendina

Project ID: Boeing C-6 Torrance
1155.002
Report Number: IRA2908

Sampled: 01/30/08
Received: 01/30/08

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8B03021 Extracted: 02/03/08											
LCS Analyzed: 02/03/2008 (8B03021-BS1)											
trans-1,3-Dichloropropene	23.1	0.50	0.32	ug/l	25.0		92	70-125			
Ethylbenzene	26.0	1.0	0.25	ug/l	25.0		104	75-125			
Hexachlorobutadiene	24.8	1.0	0.38	ug/l	25.0		99	65-135			
2-Hexanone	24.3	6.0	2.6	ug/l	25.0		97	45-140			
Isopropylbenzene	27.0	1.0	0.25	ug/l	25.0		108	75-130			
p-Isopropyltoluene	24.4	1.0	0.28	ug/l	25.0		98	75-125			
Methyl-tert-butyl Ether (MTBE)	26.1	1.0	0.32	ug/l	25.0		104	60-135			
Methylene chloride	27.0	1.0	0.95	ug/l	25.0		108	55-130			
4-Methyl-2-pentanone (MIBK)	24.7	5.0	3.5	ug/l	25.0		99	45-140			
n-Propylbenzene	26.4	1.0	0.27	ug/l	25.0		106	75-130			
Styrene	25.3	1.0	0.16	ug/l	25.0		101	75-130			
1,1,1,2-Tetrachloroethane	25.5	1.0	0.27	ug/l	25.0		102	70-130			
1,1,2,2-Tetrachloroethane	27.0	1.0	0.24	ug/l	25.0		108	55-130			
Tetrachloroethene	21.9	1.0	0.32	ug/l	25.0		88	70-125			
Toluene	25.1	1.0	0.36	ug/l	25.0		100	70-120			
1,2,3-Trichlorobenzene	25.4	1.0	0.30	ug/l	25.0		102	65-125			
1,2,4-Trichlorobenzene	26.0	1.0	0.48	ug/l	25.0		104	70-135			
1,1,1-Trichloroethane	28.7	1.0	0.30	ug/l	25.0		115	65-135			
1,1,2-Trichloroethane	25.2	1.0	0.30	ug/l	25.0		101	70-125			
Trichloroethene	23.8	1.0	0.26	ug/l	25.0		95	70-125			
Trichlorofluoromethane	33.3	2.0	0.34	ug/l	25.0		133	65-145			
1,2,3-Trichloropropane	25.5	1.0	0.40	ug/l	25.0		102	60-130			
1,3,5-Trimethylbenzene	24.5	1.0	0.26	ug/l	25.0		98	75-125			
1,2,4-Trimethylbenzene	24.5	1.0	0.23	ug/l	25.0		98	75-125			
Vinyl acetate	32.2	6.0	1.0	ug/l	25.0		129	45-145			
Vinyl chloride	29.1	0.50	0.30	ug/l	25.0		116	55-135			
Surrogate: Dibromofluoromethane	*27.4*			*ug/l*	*25.0*		*110*	*80-120*			
Surrogate: Toluene-d8	*25.5*			*ug/l*	*25.0*		*102*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*25.6*			*ug/l*	*25.0*		*102*	*80-120*			

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Trupti Mistry
Project Manager

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THE LEADER IN ENVIRONMENTAL TESTING
17461 Derian Avenue. Suite 100, Irvine, CA 92614 (949) 261-1022 Fax:(949) 260-3297

Avocet Environmental Inc.
16 Technology Drive, Suite 154
Irvine, CA 92618
Attention: Michael Rendina

Project ID: Boeing C-6 Torrance
1155.002
Report Number: IRA2908

Sampled: 01/30/08
Received: 01/30/08

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8B03021 Extracted: 02/03/08											
Matrix Spike Analyzed: 02/03/2008 (8B03021-MS1)						**Source: IRA2894-04**					
Acetone	32.3	10	4.5	ug/l	25.0	6.44	103	20-150			
Benzene	25.3	1.0	0.28	ug/l	25.0	ND	101	65-125			
Bromobenzene	23.1	1.0	0.27	ug/l	25.0	ND	92	70-125			
Bromochloromethane	25.4	1.0	0.32	ug/l	25.0	ND	102	65-135			
Bromodichloromethane	28.7	1.0	0.30	ug/l	25.0	ND	115	70-135			
Bromoform	21.6	1.0	0.40	ug/l	25.0	ND	86	55-135			
Bromomethane	26.6	1.0	0.42	ug/l	25.0	ND	106	55-145			
2-Butanone (MEK)	28.3	5.0	4.7	ug/l	25.0	ND	113	30-145			
tert-Butylbenzene	23.5	1.0	0.22	ug/l	25.0	ND	94	65-130			
n-Butylbenzene	26.9	1.0	0.37	ug/l	25.0	ND	108	65-135			
sec-Butylbenzene	25.7	1.0	0.25	ug/l	25.0	ND	103	70-125			
Carbon Disulfide	27.4	1.0	0.48	ug/l	25.0	ND	109	40-140			
Carbon tetrachloride	27.8	0.50	0.28	ug/l	25.0	ND	111	65-140			
Chlorobenzene	23.8	1.0	0.36	ug/l	25.0	ND	95	75-125			
Chloroethane	28.2	2.0	0.40	ug/l	25.0	ND	113	55-140			
Chloroform	29.3	1.0	0.33	ug/l	25.0	ND	117	65-135			
Chloromethane	26.5	2.0	0.40	ug/l	25.0	ND	106	45-145			
2-Chlorotoluene	25.0	1.0	0.28	ug/l	25.0	ND	100	65-135			
4-Chlorotoluene	26.2	1.0	0.29	ug/l	25.0	ND	105	70-135			
1,2-Dibromo-3-chloropropane	29.9	2.0	0.97	ug/l	25.0	ND	120	45-145			
Dibromochloromethane	24.5	1.0	0.28	ug/l	25.0	ND	98	65-140			
1,2-Dibromoethane (EDB)	24.8	1.0	0.40	ug/l	25.0	ND	99	70-130			
1,3-Dichlorobenzene	25.4	1.0	0.35	ug/l	25.0	ND	102	75-125			
1,4-Dichlorobenzene	23.5	1.0	0.37	ug/l	25.0	ND	94	75-125			
1,2-Dichlorobenzene	26.0	1.0	0.32	ug/l	25.0	ND	104	75-125			
Dichlorodifluoromethane	29.8	1.0	0.26	ug/l	25.0	ND	119	25-155			
1,1-Dichloroethane	28.2	1.0	0.27	ug/l	25.0	ND	113	65-130			
1,2-Dichloroethane	26.5	0.50	0.28	ug/l	25.0	ND	106	60-140			
cis-1,2-Dichloroethene	29.8	1.0	0.32	ug/l	25.0	1.96	111	65-130			
1,1-Dichloroethene	23.8	1.0	0.42	ug/l	25.0	ND	95	60-130			
trans-1,2-Dichloroethene	28.7	1.0	0.27	ug/l	25.0	ND	115	65-130			
2,2-Dichloropropane	30.1	1.0	0.34	ug/l	25.0	ND	120	60-145			
1,2-Dichloropropane	25.6	1.0	0.35	ug/l	25.0	ND	103	65-130			
cis-1,3-Dichloropropene	22.5	0.50	0.22	ug/l	25.0	ND	90	70-130			
1,1-Dichloropropene	25.8	1.0	0.28	ug/l	25.0	ND	103	70-135			

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Project Manager

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BOE-C6-0188272

Avocet Environmental Inc.
16 Technology Drive, Suite 154
Irvine, CA 92618
Attention: Michael Rendina

Project ID: Boeing C-6 Torrance
1155.002
Report Number: IRA2908

Sampled: 01/30/08
Received: 01/30/08

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Batch: 8B03021 Extracted: 02/03/08

Matrix Spike Analyzed: 02/03/2008 (8B03021-MS1) — Source: IRA2894-04

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
trans-1,3-Dichloropropene	22.9	0.50	0.32	ug/l	25.0	ND	92	65-135			
Ethylbenzene	26.4	1.0	0.25	ug/l	25.0	ND	106	65-130			
Hexachlorobutadiene	25.1	1.0	0.38	ug/l	25.0	ND	100	60-135			
2-Hexanone	25.6	6.0	2.6	ug/l	25.0	ND	103	25-140			
Isopropylbenzene	27.2	1.0	0.25	ug/l	25.0	ND	109	70-135			
p-Isopropyltoluene	24.7	1.0	0.28	ug/l	25.0	ND	99	65-130			
Methyl-tert-butyl Ether (MTBE)	26.4	1.0	0.32	ug/l	25.0	ND	106	55-145			
Methylene chloride	26.3	1.0	0.95	ug/l	25.0	ND	105	50-135			
4-Methyl-2-pentanone (MIBK)	25.7	5.0	3.5	ug/l	25.0	ND	103	40-140			
n-Propylbenzene	26.7	1.0	0.27	ug/l	25.0	ND	107	70-135			
Styrene	24.6	1.0	0.16	ug/l	25.0	ND	99	50-145			
1,1,1,2-Tetrachloroethane	25.5	1.0	0.27	ug/l	25.0	ND	102	65-140			
1,1,2,2-Tetrachloroethane	28.0	1.0	0.24	ug/l	25.0	ND	112	55-135			
Tetrachloroethene	21.9	1.0	0.32	ug/l	25.0	ND	88	65-130			
Toluene	25.2	1.0	0.36	ug/l	25.0	ND	101	70-125			
1,2,3-Trichlorobenzene	25.2	1.0	0.30	ug/l	25.0	ND	101	60-135			
1,2,4-Trichlorobenzene	25.7	1.0	0.48	ug/l	25.0	ND	103	65-135			
1,1,1-Trichloroethane	28.9	1.0	0.30	ug/l	25.0	ND	116	65-140			
1,1,2-Trichloroethane	25.4	1.0	0.30	ug/l	25.0	ND	102	65-130			
Trichloroethene	37.7	1.0	0.26	ug/l	25.0	14.0	95	65-125			
Trichlorofluoromethane	32.2	2.0	0.34	ug/l	25.0	ND	129	60-145			
1,2,3-Trichloropropane	26.2	1.0	0.40	ug/l	25.0	ND	105	55-135			
1,3,5-Trimethylbenzene	24.6	1.0	0.26	ug/l	25.0	ND	98	70-130			
1,2,4-Trimethylbenzene	24.4	1.0	0.23	ug/l	25.0	ND	98	55-135			
Vinyl acetate	29.4	6.0	1.0	ug/l	25.0	ND	118	40-150			
Vinyl chloride	28.3	0.50	0.30	ug/l	25.0	0.400	112	45-140			
Surrogate: Dibromofluoromethane	*27.7*			*ug/l*	*25.0*		*111*	*80-120*			
Surrogate: Toluene-d8	*25.7*			*ug/l*	*25.0*		*103*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*25.1*			*ug/l*	*25.0*		*101*	*80-120*			

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Trupti Mistry
Project Manager

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Avocet Environmental Inc.
16 Technology Drive, Suite 154
Irvine, CA 92618
Attention: Michael Rendina

Project ID: Boeing C-6 Torrance
1155.002
Report Number: IRA2908

Sampled: 01/30/08
Received: 01/30/08

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Batch: 8B03021 Extracted: 02/03/08

Matrix Spike Dup Analyzed: 02/03/2008 (8B03021-MSD1) — Source: IRA2894-04

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Acetone	31.7	10	4.5	ug/l	25.0	6.44	101	20-150	2	35	
Benzene	26.7	1.0	0.28	ug/l	25.0	ND	107	65-125	5	20	
Bromobenzene	25.5	1.0	0.27	ug/l	25.0	ND	102	70-125	10	20	
Bromochloromethane	26.8	1.0	0.32	ug/l	25.0	ND	107	65-135	5	25	
Bromodichloromethane	30.6	1.0	0.30	ug/l	25.0	ND	122	70-135	6	20	
Bromoform	22.5	1.0	0.40	ug/l	25.0	ND	90	55-135	4	25	
Bromomethane	29.4	1.0	0.42	ug/l	25.0	ND	117	55-145	10	25	
2-Butanone (MEK)	28.9	5.0	4.7	ug/l	25.0	ND	116	30-145	2	40	
tert-Butylbenzene	25.8	1.0	0.22	ug/l	25.0	ND	103	65-130	9	20	
n-Butylbenzene	29.2	1.0	0.37	ug/l	25.0	ND	117	65-135	8	20	
sec-Butylbenzene	27.9	1.0	0.25	ug/l	25.0	ND	112	70-125	8	20	
Carbon Disulfide	29.4	1.0	0.48	ug/l	25.0	ND	118	40-140	7	20	
Carbon tetrachloride	29.2	0.50	0.28	ug/l	25.0	ND	117	65-140	5	25	
Chlorobenzene	25.6	1.0	0.36	ug/l	25.0	ND	102	75-125	7	20	
Chloroethane	30.7	2.0	0.40	ug/l	25.0	ND	123	55-140	9	25	
Chloroform	30.8	1.0	0.33	ug/l	25.0	ND	123	65-135	5	20	
Chloromethane	30.1	2.0	0.40	ug/l	25.0	ND	120	45-145	13	25	
2-Chlorotoluene	27.6	1.0	0.28	ug/l	25.0	ND	110	65-135	10	20	
4-Chlorotoluene	28.7	1.0	0.29	ug/l	25.0	ND	115	70-135	9	20	
1,2-Dibromo-3-chloropropane	30.1	2.0	0.97	ug/l	25.0	ND	120	45-145	1	30	
Dibromochloromethane	25.6	1.0	0.28	ug/l	25.0	ND	102	65-140	4	25	
1,2-Dibromoethane (EDB)	26.0	1.0	0.40	ug/l	25.0	ND	104	70-130	5	25	
1,3-Dichlorobenzene	27.7	1.0	0.35	ug/l	25.0	ND	111	75-125	9	20	
1,4-Dichlorobenzene	25.4	1.0	0.37	ug/l	25.0	ND	102	75-125	8	20	
1,2-Dichlorobenzene	27.8	1.0	0.32	ug/l	25.0	ND	111	75-125	7	20	
Dichlorodifluoromethane	32.2	1.0	0.26	ug/l	25.0	ND	129	25-155	8	30	
1,1-Dichloroethane	29.9	1.0	0.27	ug/l	25.0	ND	120	65-130	6	20	
1,2-Dichloroethane	27.0	0.50	0.28	ug/l	25.0	ND	108	60-140	2	20	
cis-1,2-Dichloroethene	31.8	1.0	0.32	ug/l	25.0	1.96	120	65-130	7	20	
1,1-Dichloroethene	25.8	1.0	0.42	ug/l	25.0	ND	103	60-130	8	20	
trans-1,2-Dichloroethene	30.5	1.0	0.27	ug/l	25.0	ND	122	65-130	6	20	
2,2-Dichloropropane	32.2	1.0	0.34	ug/l	25.0	ND	129	60-145	7	25	
1,2-Dichloropropane	27.5	1.0	0.35	ug/l	25.0	ND	110	65-130	7	20	
cis-1,3-Dichloropropene	23.8	0.50	0.22	ug/l	25.0	ND	95	70-130	5	20	
1,1-Dichloropropene	27.0	1.0	0.28	ug/l	25.0	ND	108	70-135	5	20	

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Trupti Mistry
Project Manager

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BOE-C6-0188273

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Avocet Environmental Inc.
16 Technology Drive, Suite 154
Irvine, CA 92618
Attention: Michael Rendina

Project ID: Boeing C-6 Torrance
1155.002
Report Number: IRA2908

Sampled: 01/30/08
Received: 01/30/08

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8B03021 Extracted: 02/03/08											
Matrix Spike Dup Analyzed: 02/03/2008 (8B03021-MSD1)						**Source: IRA2894-04**					
trans-1,3-Dichloropropene	23.6	0.50	0.32	ug/l	25.0	ND	94	65-135	3	25	
Ethylbenzene	28.1	1.0	0.25	ug/l	25.0	ND	113	65-130	6	20	
Hexachlorobutadiene	26.7	1.0	0.38	ug/l	25.0	ND	107	60-135	6	20	
2-Hexanone	25.4	6.0	2.6	ug/l	25.0	ND	102	25-140	1	35	
Isopropylbenzene	29.9	1.0	0.25	ug/l	25.0	ND	120	70-135	9	20	
p-Isopropyltoluene	26.6	1.0	0.28	ug/l	25.0	ND	106	65-130	7	20	
Methyl-tert-butyl Ether (MTBE)	27.4	1.0	0.32	ug/l	25.0	ND	110	55-145	4	25	
Methylene chloride	28.0	1.0	0.95	ug/l	25.0	ND	112	50-135	6	20	
4-Methyl-2-pentanone (MIBK)	26.0	5.0	3.5	ug/l	25.0	ND	104	40-140	1	35	
n-Propylbenzene	29.4	1.0	0.27	ug/l	25.0	ND	118	70-135	10	20	
Styrene	26.5	1.0	0.16	ug/l	25.0	ND	106	50-145	7	30	
1,1,1,2-Tetrachloroethane	27.4	1.0	0.27	ug/l	25.0	ND	109	65-140	7	20	
1,1,2,2-Tetrachloroethane	29.6	1.0	0.24	ug/l	25.0	ND	118	55-135	6	30	
Tetrachloroethene	23.7	1.0	0.32	ug/l	25.0	ND	95	65-130	8	20	
Toluene	26.9	1.0	0.36	ug/l	25.0	ND	108	70-125	6	20	
1,2,3-Trichlorobenzene	26.2	1.0	0.30	ug/l	25.0	ND	105	60-135	4	20	
1,2,4-Trichlorobenzene	27.1	1.0	0.48	ug/l	25.0	ND	109	65-135	5	20	
1,1,1-Trichloroethane	30.8	1.0	0.30	ug/l	25.0	ND	123	65-140	6	20	
1,1,2-Trichloroethane	26.8	1.0	0.30	ug/l	25.0	ND	107	65-130	5	25	
Trichloroethene	39.6	1.0	0.26	ug/l	25.0	14.0	102	65-125	5	20	
Trichlorofluoromethane	34.2	2.0	0.34	ug/l	25.0	ND	137	60-145	6	25	
1,2,3-Trichloropropane	28.0	1.0	0.40	ug/l	25.0	ND	112	55-135	6	30	
1,3,5-Trimethylbenzene	26.8	1.0	0.26	ug/l	25.0	ND	107	70-130	8	20	
1,2,4-Trimethylbenzene	26.5	1.0	0.23	ug/l	25.0	ND	106	55-135	8	25	
Vinyl acetate	29.7	6.0	1.0	ug/l	25.0	ND	119	40-150	1	30	
Vinyl chloride	30.4	0.50	0.30	ug/l	25.0	0.400	120	45-140	7	30	
Surrogate: Dibromofluoromethane	*27.1*			*ug/l*	*25.0*		*108*	*80-120*			
Surrogate: Toluene-d8	*25.4*			*ug/l*	*25.0*		*102*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*25.1*			*ug/l*	*25.0*		*100*	*80-120*			

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Project Manager

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
17461 Derian Avenue. Suite 100, Irvine, CA 92614 (949) 261-1022 Fax:(949) 260-3297

Avocet Environmental Inc.
16 Technology Drive, Suite 154
Irvine, CA 92618
Attention: Michael Rendina

Project ID: Boeing C-6 Torrance
1155.002
Report Number: IRA2908

Sampled: 01/30/08
Received: 01/30/08

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8B04007 Extracted: 02/04/08											
Blank Analyzed: 02/04/2008 (8B04007-BLK1)											
Acetone	ND	10	4.5	ug/l							
Benzene	ND	1.0	0.28	ug/l							
Bromobenzene	ND	1.0	0.27	ug/l							
Bromochloromethane	ND	1.0	0.32	ug/l							
Bromodichloromethane	ND	1.0	0.30	ug/l							
Bromoform	ND	1.0	0.40	ug/l							
Bromomethane	ND	1.0	0.42	ug/l							
2-Butanone (MEK)	ND	5.0	4.7	ug/l							
tert-Butylbenzene	ND	1.0	0.22	ug/l							
n-Butylbenzene	ND	1.0	0.37	ug/l							
sec-Butylbenzene	ND	1.0	0.25	ug/l							
Carbon Disulfide	ND	1.0	0.48	ug/l							
Carbon tetrachloride	ND	0.50	0.28	ug/l							
Chlorobenzene	ND	1.0	0.36	ug/l							
Chloroethane	ND	2.0	0.40	ug/l							
Chloroform	ND	1.0	0.33	ug/l							
Chloromethane	ND	2.0	0.40	ug/l							
2-Chlorotoluene	ND	1.0	0.28	ug/l							
4-Chlorotoluene	ND	1.0	0.29	ug/l							
1,2-Dibromo-3-chloropropane	ND	2.0	0.97	ug/l							
Dibromochloromethane	ND	1.0	0.28	ug/l							
1,2-Dibromoethane (EDB)	ND	1.0	0.40	ug/l							
1,3-Dichlorobenzene	ND	1.0	0.35	ug/l							
1,4-Dichlorobenzene	ND	1.0	0.37	ug/l							
1,2-Dichlorobenzene	ND	1.0	0.32	ug/l							
Dichlorodifluoromethane	ND	1.0	0.26	ug/l							
1,1-Dichloroethane	ND	1.0	0.27	ug/l							
1,2-Dichloroethane	ND	0.50	0.28	ug/l							
cis-1,2-Dichloroethene	ND	1.0	0.32	ug/l							
1,1-Dichloroethene	ND	1.0	0.42	ug/l							
trans-1,2-Dichloroethene	ND	1.0	0.27	ug/l							
2,2-Dichloropropane	ND	1.0	0.34	ug/l							
1,2-Dichloropropane	ND	1.0	0.35	ug/l							
cis-1,3-Dichloropropene	ND	0.50	0.22	ug/l							
1,1-Dichloropropene	ND	1.0	0.28	ug/l							

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BOE-C6-0188274

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Avocet Environmental Inc.
16 Technology Drive, Suite 154
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Attention: Michael Rendina

Project ID: Boeing C-6 Torrance
1155.002
Report Number: IRA2908

Sampled: 01/30/08
Received: 01/30/08

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8B04007 Extracted: 02/04/08											
Blank Analyzed: 02/04/2008 (8B04007-BLK1)											
trans-1,3-Dichloropropene	ND	0.50	0.32	ug/l							
Ethylbenzene	ND	1.0	0.25	ug/l							
Hexachlorobutadiene	ND	1.0	0.38	ug/l							
2-Hexanone	ND	6.0	2.6	ug/l							
Iodomethane	ND	2.0	1.0	ug/l							
Isopropylbenzene	ND	1.0	0.25	ug/l							
p-Isopropyltoluene	ND	1.0	0.28	ug/l							
Methyl-tert-butyl Ether (MTBE)	ND	1.0	0.32	ug/l							
Methylene chloride	ND	1.0	0.95	ug/l							
4-Methyl-2-pentanone (MIBK)	ND	5.0	3.5	ug/l							
n-Propylbenzene	ND	1.0	0.27	ug/l							
Styrene	ND	1.0	0.16	ug/l							
1,1,1,2-Tetrachloroethane	ND	1.0	0.27	ug/l							
1,1,2,2-Tetrachloroethane	ND	1.0	0.24	ug/l							
Tetrachloroethene	ND	1.0	0.32	ug/l							
Tetrahydrofuran (THF)	3.53	10	3.5	ug/l							*Ja*
Toluene	ND	1.0	0.36	ug/l							
1,2,3-Trichlorobenzene	ND	1.0	0.30	ug/l							
1,2,4-Trichlorobenzene	ND	1.0	0.48	ug/l							
1,1,1-Trichloroethane	ND	1.0	0.30	ug/l							
1,1,2-Trichloroethane	ND	1.0	0.30	ug/l							
Trichloroethene	ND	1.0	0.26	ug/l							
Trichlorofluoromethane	ND	2.0	0.34	ug/l							
1,2,3-Trichloropropane	ND	1.0	0.40	ug/l							
1,3,5-Trimethylbenzene	ND	1.0	0.26	ug/l							
1,2,4-Trimethylbenzene	ND	1.0	0.23	ug/l							
Vinyl acetate	ND	6.0	1.0	ug/l							
Vinyl chloride	ND	0.50	0.30	ug/l							
Xylenes, Total	ND	1.0	0.90	ug/l							
Surrogate: Dibromofluoromethane	*27.7*			*ug/l*	*25.0*		*111*	*80-120*			
Surrogate: Toluene-d8	*25.2*			*ug/l*	*25.0*		*101*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*22.9*			*ug/l*	*25.0*		*91*	*80-120*			

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Attention: Michael Rendina

Project ID: Boeing C-6 Torrance
1155.002
Report Number: IRA2908

Sampled: 01/30/08
Received: 01/30/08

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8B04007 Extracted: 02/04/08											
LCS Analyzed: 02/04/2008 (8B04007-BS1)											
Acetone	28.9	10	4.5	ug/l	25.0		115	30-140			
Benzene	25.9	1.0	0.28	ug/l	25.0		103	70-120			
Bromobenzene	24.3	1.0	0.27	ug/l	25.0		97	75-120			
Bromochloromethane	26.3	1.0	0.32	ug/l	25.0		105	70-130			
Bromodichloromethane	29.9	1.0	0.30	ug/l	25.0		120	70-135			
Bromoform	22.2	1.0	0.40	ug/l	25.0		89	55-130			
Bromomethane	29.3	1.0	0.42	ug/l	25.0		117	65-140			
2-Butanone (MEK)	28.4	5.0	4.7	ug/l	25.0		114	40-140			
tert-Butylbenzene	24.5	1.0	0.22	ug/l	25.0		98	70-125			
n-Butylbenzene	27.3	1.0	0.37	ug/l	25.0		109	70-130			
sec-Butylbenzene	26.6	1.0	0.25	ug/l	25.0		106	70-125			
Carbon Disulfide	28.0	1.0	0.48	ug/l	25.0		112	50-130			
Carbon tetrachloride	29.8	0.50	0.28	ug/l	25.0		119	65-140			
Chlorobenzene	24.8	1.0	0.36	ug/l	25.0		99	75-120			
Chloroethane	30.1	2.0	0.40	ug/l	25.0		120	60-140			
Chloroform	30.2	1.0	0.33	ug/l	25.0		121	70-130			
Chloromethane	28.5	2.0	0.40	ug/l	25.0		114	50-140			
2-Chlorotoluene	26.0	1.0	0.28	ug/l	25.0		104	70-125			
4-Chlorotoluene	27.2	1.0	0.29	ug/l	25.0		109	75-125			
1,2-Dibromo-3-chloropropane	28.5	2.0	0.97	ug/l	25.0		114	50-135			
Dibromochloromethane	25.6	1.0	0.28	ug/l	25.0		103	70-140			
1,2-Dibromoethane (EDB)	25.0	1.0	0.40	ug/l	25.0		100	75-125			
1,3-Dichlorobenzene	26.4	1.0	0.35	ug/l	25.0		106	75-120			
1,4-Dichlorobenzene	24.3	1.0	0.37	ug/l	25.0		97	75-120			
1,2-Dichlorobenzene	26.5	1.0	0.32	ug/l	25.0		106	75-120			
Dichlorodifluoromethane	31.6	1.0	0.26	ug/l	25.0		126	35-155			
1,1-Dichloroethane	29.2	1.0	0.27	ug/l	25.0		117	70-125			
1,2-Dichloroethane	27.2	0.50	0.28	ug/l	25.0		109	60-140			
cis-1,2-Dichloroethene	28.8	1.0	0.32	ug/l	25.0		115	70-125			
1,1-Dichloroethene	25.5	1.0	0.42	ug/l	25.0		102	70-125			
trans-1,2-Dichloroethene	29.8	1.0	0.27	ug/l	25.0		119	70-125			
2,2-Dichloropropane	32.3	1.0	0.34	ug/l	25.0		129	65-140			
1,2-Dichloropropane	26.7	1.0	0.35	ug/l	25.0		107	70-125			
cis-1,3-Dichloropropene	24.0	0.50	0.22	ug/l	25.0		96	75-125			
1,1-Dichloropropene	26.8	1.0	0.28	ug/l	25.0		107	75-130			

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BOE-C6-0188275

Avocet Environmental Inc.
16 Technology Drive, Suite 154
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Attention: Michael Rendina

Project ID: Boeing C-6 Torrance
1155.002
Report Number: IRA2908

Sampled: 01/30/08
Received: 01/30/08

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8B04007 Extracted: 02/04/08											
LCS Analyzed: 02/04/2008 (8B04007-BS1)											
trans-1,3-Dichloropropene	24.1	0.50	0.32	ug/l	25.0		96	70-125			
Ethylbenzene	27.1	1.0	0.25	ug/l	25.0		108	75-125			
Hexachlorobutadiene	24.6	1.0	0.38	ug/l	25.0		98	65-135			
2-Hexanone	24.3	6.0	2.6	ug/l	25.0		97	45-140			
Isopropylbenzene	28.4	1.0	0.25	ug/l	25.0		114	75-130			
p-Isopropyltoluene	25.1	1.0	0.28	ug/l	25.0		100	75-125			
Methyl-tert-butyl Ether (MTBE)	27.1	1.0	0.32	ug/l	25.0		108	60-135			
Methylene chloride	27.1	1.0	0.95	ug/l	25.0		108	55-130			
4-Methyl-2-pentanone (MIBK)	24.4	5.0	3.5	ug/l	25.0		98	45-140			
n-Propylbenzene	27.5	1.0	0.27	ug/l	25.0		110	75-130			
Styrene	26.3	1.0	0.16	ug/l	25.0		105	75-130			
1,1,1,2-Tetrachloroethane	26.9	1.0	0.27	ug/l	25.0		108	70-130			
1,1,2,2-Tetrachloroethane	27.3	1.0	0.24	ug/l	25.0		109	55-130			
Tetrachloroethene	22.8	1.0	0.32	ug/l	25.0		91	70-125			
Toluene	26.1	1.0	0.36	ug/l	25.0		104	70-120			
1,2,3-Trichlorobenzene	25.2	1.0	0.30	ug/l	25.0		101	65-125			
1,2,4-Trichlorobenzene	25.6	1.0	0.48	ug/l	25.0		102	70-135			
1,1,1-Trichloroethane	30.6	1.0	0.30	ug/l	25.0		122	65-135			
1,1,2-Trichloroethane	25.9	1.0	0.30	ug/l	25.0		103	70-125			
Trichloroethene	24.6	1.0	0.26	ug/l	25.0		99	70-125			
Trichlorofluoromethane	34.8	2.0	0.34	ug/l	25.0		139	65-145			
1,2,3-Trichloropropane	26.2	1.0	0.40	ug/l	25.0		105	60-130			
1,3,5-Trimethylbenzene	25.8	1.0	0.26	ug/l	25.0		103	75-125			
1,2,4-Trimethylbenzene	25.6	1.0	0.23	ug/l	25.0		103	75-125			
Vinyl acetate	33.8	6.0	1.0	ug/l	25.0		135	45-145			
Vinyl chloride	29.8	0.50	0.30	ug/l	25.0		119	55-135			
Surrogate: Dibromofluoromethane	*27.9*			*ug/l*	*25.0*		*112*	*80-120*			
Surrogate: Toluene-d8	*25.5*			*ug/l*	*25.0*		*102*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*26.0*			*ug/l*	*25.0*		*104*	*80-120*			

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Avocet Environmental Inc.
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Irvine, CA 92618
Attention: Michael Rendina

Project ID: Boeing C-6 Torrance
1155.002
Report Number: IRA2908

Sampled: 01/30/08
Received: 01/30/08

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8B04007 Extracted: 02/04/08											
Matrix Spike Analyzed: 02/04/2008 (8B04007-MS1)						**Source: IRB0146-01**					
Acetone	29.5	10	4.5	ug/l	25.0	5.03	98	20-150			
Benzene	25.1	1.0	0.28	ug/l	25.0	ND	101	65-125			
Bromobenzene	23.4	1.0	0.27	ug/l	25.0	ND	94	70-125			
Bromochloromethane	24.2	1.0	0.32	ug/l	25.0	ND	97	65-135			
Bromodichloromethane	28.8	1.0	0.30	ug/l	25.0	ND	115	70-135			
Bromoform	21.5	1.0	0.40	ug/l	25.0	ND	86	55-135			
Bromomethane	28.6	1.0	0.42	ug/l	25.0	ND	114	55-145			
2-Butanone (MEK)	26.3	5.0	4.7	ug/l	25.0	ND	105	30-145			
tert-Butylbenzene	24.0	1.0	0.22	ug/l	25.0	ND	96	65-130			
n-Butylbenzene	27.0	1.0	0.37	ug/l	25.0	ND	108	65-135			
sec-Butylbenzene	25.9	1.0	0.25	ug/l	25.0	ND	104	70-125			
Carbon Disulfide	27.3	1.0	0.48	ug/l	25.0	ND	109	40-140			
Carbon tetrachloride	28.4	0.50	0.28	ug/l	25.0	ND	113	65-140			
Chlorobenzene	23.9	1.0	0.36	ug/l	25.0	ND	96	75-125			
Chloroethane	28.9	2.0	0.40	ug/l	25.0	ND	115	55-140			
Chloroform	28.9	1.0	0.33	ug/l	25.0	ND	116	65-135			
Chloromethane	28.8	2.0	0.40	ug/l	25.0	ND	115	45-145			
2-Chlorotoluene	25.5	1.0	0.28	ug/l	25.0	ND	102	65-135			
4-Chlorotoluene	26.5	1.0	0.29	ug/l	25.0	ND	106	70-135			
1,2-Dibromo-3-chloropropane	28.2	2.0	0.97	ug/l	25.0	ND	113	45-145			
Dibromochloromethane	24.4	1.0	0.28	ug/l	25.0	ND	98	65-140			
1,2-Dibromoethane (EDB)	24.2	1.0	0.40	ug/l	25.0	ND	97	70-130			
1,3-Dichlorobenzene	25.8	1.0	0.35	ug/l	25.0	ND	103	75-125			
1,4-Dichlorobenzene	23.6	1.0	0.37	ug/l	25.0	ND	94	75-125			
1,2-Dichlorobenzene	25.7	1.0	0.32	ug/l	25.0	ND	103	75-125			
Dichlorodifluoromethane	35.0	1.0	0.26	ug/l	25.0	ND	140	25-155			
1,1-Dichloroethane	27.8	1.0	0.27	ug/l	25.0	ND	111	65-130			
1,2-Dichloroethane	26.1	0.50	0.28	ug/l	25.0	ND	104	60-140			
cis-1,2-Dichloroethene	27.9	1.0	0.32	ug/l	25.0	ND	112	65-130			
1,1-Dichloroethene	24.9	1.0	0.42	ug/l	25.0	ND	100	60-130			
trans-1,2-Dichloroethene	28.4	1.0	0.27	ug/l	25.0	ND	114	65-130			
2,2-Dichloropropane	31.1	1.0	0.34	ug/l	25.0	ND	124	60-145			
1,2-Dichloropropane	25.3	1.0	0.35	ug/l	25.0	ND	101	65-130			
cis-1,3-Dichloropropene	22.8	0.50	0.22	ug/l	25.0	ND	91	70-130			
1,1-Dichloropropene	25.8	1.0	0.28	ug/l	25.0	ND	103	70-135			

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Avocet Environmental Inc.
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Project ID: Boeing C-6 Torrance
1155.002
Report Number: IRA2908

Sampled: 01/30/08
Received: 01/30/08

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8B04007 Extracted: 02/04/08											
Matrix Spike Analyzed: 02/04/2008 (8B04007-MS1)						**Source: IRB0146-01**					
trans-1,3-Dichloropropene	22.5	0.50	0.32	ug/l	25.0	ND	90	65-135			
Ethylbenzene	26.4	1.0	0.25	ug/l	25.0	ND	106	65-130			
Hexachlorobutadiene	24.7	1.0	0.38	ug/l	25.0	ND	99	60-135			
2-Hexanone	23.4	6.0	2.6	ug/l	25.0	ND	94	25-140			
Isopropylbenzene	27.8	1.0	0.25	ug/l	25.0	ND	111	70-135			
p-Isopropyltoluene	25.0	1.0	0.28	ug/l	25.0	ND	100	65-130			
Methyl-tert-butyl Ether (MTBE)	25.5	1.0	0.32	ug/l	25.0	ND	102	55-145			
Methylene chloride	26.1	1.0	0.95	ug/l	25.0	ND	104	50-135			
4-Methyl-2-pentanone (MIBK)	24.1	5.0	3.5	ug/l	25.0	ND	96	40-140			
n-Propylbenzene	27.1	1.0	0.27	ug/l	25.0	ND	109	70-135			
Styrene	25.1	1.0	0.16	ug/l	25.0	ND	101	50-145			
1,1,1,2-Tetrachloroethane	25.9	1.0	0.27	ug/l	25.0	ND	104	65-140			
1,1,2,2-Tetrachloroethane	27.0	1.0	0.24	ug/l	25.0	ND	108	55-135			
Tetrachloroethene	22.0	1.0	0.32	ug/l	25.0	ND	88	65-130			
Toluene	25.3	1.0	0.36	ug/l	25.0	ND	101	70-125			
1,2,3-Trichlorobenzene	24.2	1.0	0.30	ug/l	25.0	ND	97	60-135			
1,2,4-Trichlorobenzene	24.8	1.0	0.48	ug/l	25.0	ND	99	65-135			
1,1,1-Trichloroethane	29.1	1.0	0.30	ug/l	25.0	ND	117	65-140			
1,1,2-Trichloroethane	24.6	1.0	0.30	ug/l	25.0	ND	98	65-130			
Trichloroethene	23.9	1.0	0.26	ug/l	25.0	ND	96	65-125			
Trichlorofluoromethane	34.2	2.0	0.34	ug/l	25.0	ND	137	60-145			
1,2,3-Trichloropropane	25.2	1.0	0.40	ug/l	25.0	ND	101	55-135			
1,3,5-Trimethylbenzene	25.2	1.0	0.26	ug/l	25.0	ND	101	70-130			
1,2,4-Trimethylbenzene	24.8	1.0	0.23	ug/l	25.0	ND	99	55-135			
Vinyl acetate	30.1	6.0	1.0	ug/l	25.0	ND	120	40-150			
Vinyl chloride	29.4	0.50	0.30	ug/l	25.0	ND	118	45-140			
Surrogate: Dibromofluoromethane	*27.8*			*ug/l*	*25.0*		*111*	*80-120*			
Surrogate: Toluene-d8	*25.7*			*ug/l*	*25.0*		*103*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*25.7*			*ug/l*	*25.0*		*103*	*80-120*			

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Project Manager

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Avocet Environmental Inc.
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Irvine, CA 92618
Attention: Michael Rendina

Project ID: Boeing C-6 Torrance
1155.002
Report Number: IRA2908

Sampled: 01/30/08
Received: 01/30/08

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8B04007 Extracted: 02/04/08											
Matrix Spike Dup Analyzed: 02/04/2008 (8B04007-MSD1)						**Source: IRB0146-01**					
Acetone	34.7	10	4.5	ug/l	25.0	5.03	119	20-150	16	35	
Benzene	25.4	1.0	0.28	ug/l	25.0	ND	102	65-125	1	20	
Bromobenzene	23.6	1.0	0.27	ug/l	25.0	ND	94	70-125	1	20	
Bromochloromethane	25.5	1.0	0.32	ug/l	25.0	ND	102	65-135	5	25	
Bromodichloromethane	29.0	1.0	0.30	ug/l	25.0	ND	116	70-135	1	20	
Bromoform	22.6	1.0	0.40	ug/l	25.0	ND	91	55-135	5	25	
Bromomethane	29.3	1.0	0.42	ug/l	25.0	ND	117	55-145	2	25	
2-Butanone (MEK)	33.0	5.0	4.7	ug/l	25.0	ND	132	30-145	23	40	
tert-Butylbenzene	23.8	1.0	0.22	ug/l	25.0	ND	95	65-130	1	20	
n-Butylbenzene	26.4	1.0	0.37	ug/l	25.0	ND	106	65-135	2	20	
sec-Butylbenzene	25.6	1.0	0.25	ug/l	25.0	ND	102	70-125	1	20	
Carbon Disulfide	27.4	1.0	0.48	ug/l	25.0	ND	110	40-140	0	20	
Carbon tetrachloride	27.6	0.50	0.28	ug/l	25.0	ND	110	65-140	3	25	
Chlorobenzene	23.7	1.0	0.36	ug/l	25.0	ND	95	75-125	1	20	
Chloroethane	30.2	2.0	0.40	ug/l	25.0	ND	121	55-140	4	25	
Chloroform	28.8	1.0	0.33	ug/l	25.0	ND	115	65-135	0	20	
Chloromethane	30.9	2.0	0.40	ug/l	25.0	ND	124	45-145	7	25	
2-Chlorotoluene	24.7	1.0	0.28	ug/l	25.0	ND	99	65-135	3	20	
4-Chlorotoluene	26.1	1.0	0.29	ug/l	25.0	ND	104	70-135	2	20	
1,2-Dibromo-3-chloropropane	32.1	2.0	0.97	ug/l	25.0	ND	129	45-145	13	30	
Dibromochloromethane	24.9	1.0	0.28	ug/l	25.0	ND	100	65-140	2	25	
1,2-Dibromoethane (EDB)	25.3	1.0	0.40	ug/l	25.0	ND	101	70-130	4	25	
1,3-Dichlorobenzene	25.4	1.0	0.35	ug/l	25.0	ND	101	75-125	2	20	
1,4-Dichlorobenzene	23.4	1.0	0.37	ug/l	25.0	ND	94	75-125	1	20	
1,2-Dichlorobenzene	25.8	1.0	0.32	ug/l	25.0	ND	103	75-125	1	20	
Dichlorodifluoromethane	35.2	1.0	0.26	ug/l	25.0	ND	141	25-155	0	30	
1,1-Dichloroethane	28.1	1.0	0.27	ug/l	25.0	ND	112	65-130	1	20	
1,2-Dichloroethane	26.8	0.50	0.28	ug/l	25.0	ND	107	60-140	2	20	
cis-1,2-Dichloroethene	28.2	1.0	0.32	ug/l	25.0	ND	113	65-130	1	20	
1,1-Dichloroethene	25.1	1.0	0.42	ug/l	25.0	ND	100	60-130	1	20	
trans-1,2-Dichloroethene	28.5	1.0	0.27	ug/l	25.0	ND	114	65-130	1	20	
2,2-Dichloropropane	30.3	1.0	0.34	ug/l	25.0	ND	121	60-145	3	25	
1,2-Dichloropropane	25.8	1.0	0.35	ug/l	25.0	ND	103	65-130	2	20	
cis-1,3-Dichloropropene	23.2	0.50	0.22	ug/l	25.0	ND	93	70-130	2	20	
1,1-Dichloropropene	25.8	1.0	0.28	ug/l	25.0	ND	103	70-135	0	20	

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Project Manager

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Project ID: Boeing C-6 Torrance
1155.002
Report Number: IRA2908

Sampled: 01/30/08
Received: 01/30/08

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8B04007 Extracted: 02/04/08											
Matrix Spike Dup Analyzed: 02/04/2008 (8B04007-MSD1)						**Source: IRB0146-01**					
trans-1,3-Dichloropropene	23.4	0.50	0.32	ug/l	25.0	ND	94	65-135	4	25	
Ethylbenzene	26.2	1.0	0.25	ug/l	25.0	ND	105	65-130	1	20	
Hexachlorobutadiene	23.9	1.0	0.38	ug/l	25.0	ND	95	60-135	3	20	
2-Hexanone	28.0	6.0	2.6	ug/l	25.0	ND	112	25-140	18	35	
Isopropylbenzene	27.2	1.0	0.25	ug/l	25.0	ND	109	70-135	2	20	
p-Isopropyltoluene	24.5	1.0	0.28	ug/l	25.0	ND	98	65-130	2	20	
Methyl-tert-butyl Ether (MTBE)	27.4	1.0	0.32	ug/l	25.0	ND	109	55-145	7	25	
Methylene chloride	27.0	1.0	0.95	ug/l	25.0	ND	108	50-135	3	20	
4-Methyl-2-pentanone (MIBK)	28.1	5.0	3.5	ug/l	25.0	ND	113	40-140	15	35	
n-Propylbenzene	26.7	1.0	0.27	ug/l	25.0	ND	107	70-135	2	20	
Styrene	24.8	1.0	0.16	ug/l	25.0	ND	99	50-145	1	30	
1,1,1,2-Tetrachloroethane	25.6	1.0	0.27	ug/l	25.0	ND	102	65-140	1	20	
1,1,2,2-Tetrachloroethane	29.1	1.0	0.24	ug/l	25.0	ND	116	55-135	7	30	
Tetrachloroethene	21.9	1.0	0.32	ug/l	25.0	ND	88	65-130	1	20	
Toluene	25.2	1.0	0.36	ug/l	25.0	ND	101	70-125	0	20	
1,2,3-Trichlorobenzene	24.6	1.0	0.30	ug/l	25.0	ND	99	60-135	2	20	
1,2,4-Trichlorobenzene	24.5	1.0	0.48	ug/l	25.0	ND	98	65-135	1	20	
1,1,1-Trichloroethane	28.6	1.0	0.30	ug/l	25.0	ND	114	65-140	2	20	
1,1,2-Trichloroethane	26.1	1.0	0.30	ug/l	25.0	ND	104	65-130	6	25	
Trichloroethene	24.1	1.0	0.26	ug/l	25.0	ND	96	65-125	1	20	
Trichlorofluoromethane	33.1	2.0	0.34	ug/l	25.0	ND	132	60-145	3	25	
1,2,3-Trichloropropane	28.0	1.0	0.40	ug/l	25.0	ND	112	55-135	11	30	
1,3,5-Trimethylbenzene	24.6	1.0	0.26	ug/l	25.0	ND	98	70-130	3	20	
1,2,4-Trimethylbenzene	24.3	1.0	0.23	ug/l	25.0	ND	97	55-135	2	25	
Vinyl acetate	31.8	6.0	1.0	ug/l	25.0	ND	127	40-150	5	30	
Vinyl chloride	30.5	0.50	0.30	ug/l	25.0	ND	122	45-140	3	30	
Surrogate: Dibromofluoromethane	*27.6*			*ug/l*	*25.0*		*110*	*80-120*			
Surrogate: Toluene-d8	*25.7*			*ug/l*	*25.0*		*103*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*25.5*			*ug/l*	*25.0*		*102*	*80-120*			

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Attention: Michael Rendina

Project ID: Boeing C-6 Torrance
1155.002
Report Number: IRA2908

Sampled: 01/30/08
Received: 01/30/08

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8A30051 Extracted: 01/30/08											
Blank Analyzed: 01/30/2008 (8A30051-BLK1)											
Chloride	ND	0.50	0.25	mg/l							
Nitrate-NO3	ND	0.50	0.25	mg/l							
Nitrite-NO2	ND	0.50	0.30	mg/l							
Sulfate	ND	0.50	0.20	mg/l							
LCS Analyzed: 01/30/2008 (8A30051-BS1)											
Chloride	5.14	0.50	0.25	mg/l	5.00		103	90-110			
Nitrate-NO3	5.36	0.50	0.25	mg/l	5.00		107	90-110			
Nitrite-NO2	5.14	0.50	0.30	mg/l	5.00		103	90-110			
Sulfate	10.6	0.50	0.20	mg/l	10.0		106	90-110			
Matrix Spike Analyzed: 01/30/2008 (8A30051-MS1)						**Source: IRA2685-01**					
Chloride	21.9	0.50	0.25	mg/l	5.00	16.7	104	80-120			
Nitrate-NO3	6.77	0.50	0.25	mg/l	5.00	1.28	110	80-120			
Nitrite-NO2	5.44	0.50	0.30	mg/l	5.00	ND	109	80-120			
Sulfate	13.9	0.50	0.20	mg/l	10.0	3.33	106	80-120			
Matrix Spike Analyzed: 01/30/2008 (8A30051-MS2)						**Source: IRA2804-10**					
Chloride	206	10	5.0	mg/l	50.0	166	81	80-120			
Nitrate-NO3	85.3	10	5.0	mg/l	50.0	34.9	101	80-120			
Nitrite-NO2	51.5	10	6.0	mg/l	50.0	ND	103	80-120			
Sulfate	251	10	4.0	mg/l	100	156	95	80-120			
Matrix Spike Dup Analyzed: 01/30/2008 (8A30051-MSD1)						**Source: IRA2685-01**					
Chloride	21.9	0.50	0.25	mg/l	5.00	16.7	104	80-120	0	20	
Nitrate-NO3	6.85	0.50	0.25	mg/l	5.00	1.28	111	80-120	1	20	
Nitrite-NO2	5.46	0.50	0.30	mg/l	5.00	ND	109	80-120	1	20	
Sulfate	14.4	0.50	0.20	mg/l	10.0	3.33	111	80-120	3	20	

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BOE-C6-0188278

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Project ID: Boeing C-6 Torrance
1155.002
Report Number: IRA2908

Sampled: 01/30/08
Received: 01/30/08

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8B05104 Extracted: 02/05/08											
Blank Analyzed: 02/05/2008 (8B05104-BLK1)											
Total Dissolved Solids	ND	10	10	mg/l							
LCS Analyzed: 02/05/2008 (8B05104-BS1)											
Total Dissolved Solids	994	10	10	mg/l	1000		99	90-110			
Duplicate Analyzed: 02/05/2008 (8B05104-DUP1)						**Source: IRA2905-01**					
Total Dissolved Solids	1200	10	10	mg/l		1200			0	10	
Batch: 8B06057 Extracted: 02/06/08											
Blank Analyzed: 02/06/2008 (8B06057-BLK1)											
Alkalinity as CaCO3	ND	2.0	2.0	mg/l							
Duplicate Analyzed: 02/06/2008 (8B06057-DUP1)						**Source: IRA2678-01**					
Alkalinity as CaCO3	520	2.0	2.0	mg/l		516			1	20	
Reference Analyzed: 02/06/2008 (8B06057-SRM1)											
Alkalinity as CaCO3	264	2.0	2.0	mg/l	283		93	90-110			

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METHOD BLANK/QC DATA

TOTAL ORGANIC CARBON (EPA 9060A MOD.)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8B12155 Extracted: 02/12/08											
Blank Analyzed: 02/12/2008 (8B12155-BLK1)											
Total Organic Carbon	ND	1.0	0.50	mg/l							
LCS Analyzed: 02/12/2008 (8B12155-BS1)											
Total Organic Carbon	9.18	1.0	0.50	mg/l	10.0		92	90-110			
Matrix Spike Analyzed: 02/12/2008 (8B12155-MS1)						**Source: IRB0089-02**					
Total Organic Carbon	11.6	1.0	0.50	mg/l	5.00	6.54	102	80-120			
Matrix Spike Dup Analyzed: 02/12/2008 (8B12155-MSD1)						**Source: IRB0089-02**					
Total Organic Carbon	11.5	1.0	0.50	mg/l	5.00	6.54	99	80-120	1	20	

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Sampled: 01/30/08
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METHOD BLANK/QC DATA

Volatile Fatty Acids

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: M080212014 Extracted: 02/05/08											
LCS Analyzed: 02/08/2008 (M080212014-LCS)						**Source:**					
Acetic Acid	1.7	0.07	N/A	mg/L	2		85	70-130			
Butyric Acid	1.7	0.07	N/A	mg/L	2		85	70-130			
Lactic Acid and HIBA	2	0.1	N/A	mg/L	2		100	70-130			
Propionic Acid	1.7	0.07	N/A	mg/L	2		85	70-130			
Hexanoic Acid	1.6	0.1	N/A	mg/L	2		80	70-130			
Pentanoic Acid	1.5	0.07	N/A	mg/L	2		75	70-130			
Pyruvic Acid	1.7	0.07	N/A	mg/L	2		85	70-130			
i-Hexanoic Acid	1.5	0.1	N/A	mg/L	2		75	70-130			
i-Pentanoic Acid	1.6	0.07	N/A	mg/L	2		80	70-130			
Blank Analyzed: 02/08/2008 (M080212014-MB)						**Source:**					
Acetic Acid	ND	0.07	N/A	mg/L				-			*U*
Butyric Acid	ND	0.07	N/A	mg/L				-			*U*
Lactic Acid and HIBA	ND	0.1	N/A	mg/L				-			*U*
Propionic Acid	ND	0.07	N/A	mg/L				-			*U*
Hexanoic Acid	ND	0.1	N/A	mg/L				-			*U*
Pentanoic Acid	ND	0.07	N/A	mg/L				-			*U*
Pyruvic Acid	ND	0.07	N/A	mg/L				-			*U*
i-Hexanoic Acid	ND	0.1	N/A	mg/L				-			*U*
i-Pentanoic Acid	ND	0.07	N/A	mg/L				-			*U*
Matrix Spike Analyzed: 02/08/2008 (P0802014-01A-MS)						**Source:**					
Acetic Acid	1.6	0.07	N/A	mg/L	2		77	70-130			
Butyric Acid	1.6	0.07	N/A	mg/L	2		80	70-130			
Lactic Acid and HIBA	1.6	0.1	N/A	mg/L	2		69	70-130			*M*
Propionic Acid	1.6	0.07	N/A	mg/L	2		80	70-130			
Hexanoic Acid	1.4	0.1	N/A	mg/L	2		70	70-130			
Pentanoic Acid	1.5	0.07	N/A	mg/L	2		75	70-130			
Pyruvic Acid	1.3	0.07	N/A	mg/L	2		65	70-130			*M*
i-Hexanoic Acid	1.4	0.1	N/A	mg/L	2		70	70-130			
i-Pentanoic Acid	1.6	0.07	N/A	mg/L	2		80	70-130			

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Report Number: IRA2908

Sampled: 01/30/08
Received: 01/30/08

METHOD BLANK/QC DATA

Volatile Fatty Acids

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: M080212014 Extracted: 02/05/08											
Matrix Spike Dup Analyzed: 02/08/2008 (P0802014-01A-SD)						**Source:**					
Acetic Acid	1.6	0.07	N/A	mg/L	2		77	70-130	0		
Butyric Acid	1.6	0.07	N/A	mg/L	2		80	70-130	0		
Lactic Acid and HIBA	1.6	0.1	N/A	mg/L	2		69	70-130	0		*M*
Propionic Acid	1.6	0.07	N/A	mg/L	2		80	70-130	0		
Hexanoic Acid	1.4	0.1	N/A	mg/L	2		70	70-130	0		
Pentanoic Acid	1.5	0.07	N/A	mg/L	2		75	70-130	0		
Pyruvic Acid	1.2	0.07	N/A	mg/L	2		60	70-130	8		*M*
i-Hexanoic Acid	1.4	0.1	N/A	mg/L	2		70	70-130	0		
i-Pentanoic Acid	1.5	0.07	N/A	mg/L	2		75	70-130	6		

TestAmerica Irvine

Trupti Mistry
Project Manager

The results pertain only to the samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from TestAmerica.

BOE-C6-0188280

Avocet Environmental Inc.
16 Technology Drive, Suite 154
Irvine, CA 92618
Attention: Michael Rendina

Project ID: Boeing C-6 Torrance
1155.002
Report Number: IRA2908

Sampled: 01/30/08
Received: 01/30/08

METHOD BLANK/QC DATA

qPCR TaqMan assay

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 1 Extracted: 02/04/08											
Blank Analyzed: 02/13/2008 (bvcA negative)						**Source:**					
vcrA	ND	50	N/A	ne copies/L grounc				-			
Matrix spike Analyzed: 02/13/2008 (bvcA positive)						**Source: vcrA positive**					
vcrA	Positive	50	N/A	ne copies/L grounc				-			
Blank Analyzed: 02/04/2008 (tceA negative)						**Source:**					
tceA	ND	50	N/A	ne copies/L grounc				-			
Matrix spike Analyzed: 02/04/2008 (tceA positive)						**Source: tceA positive**					
tceA	Positive	50	N/A	ne copies/L grounc				-			
Blank Analyzed: 02/04/2008 (vcrA negative)						**Source:**					
vcrA	ND	50	N/A	ne copies/L grounc				-			
Matrix spike Analyzed: 02/04/2008 (vcrA positive)						**Source: vcrA positive**					
vcrA	Positive	50	N/A	ne copies/L grounc				-			

TestAmerica Irvine

Trupti Mistry
Project Manager

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
17461 Derian Avenue. Suite 100, Irvine, CA 92614 (949) 261-1022 Fax:(949) 260-3297

Avocet Environmental Inc.
16 Technology Drive, Suite 154
Irvine, CA 92618
Attention: Michael Rendina

Project ID: Boeing C-6 Torrance
1155.002
Report Number: IRA2908

Sampled: 01/30/08
Received: 01/30/08

METHOD BLANK/QC DATA

RSK175 Dissolved Gases in Water

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 080206GC8A Extracted: 02/06/08											
LCS Dup Analyzed: 02/06/2008 (080206GC8ABD)						**Source: 080206GC8ABS**					
Methane	513	1.0	N/A	ug/L	654	0	78	70-130	9	30	
Ethane	928	2.0	N/A	ug/L	1227	0	76	70-130	7	30	
Ethylene	820	3.0	N/A	ug/L	1145	0	72	70-130	3	30	
LCS Analyzed: 02/06/2008 (080206GC8ABS)						**Source:**					
Methane	561	1.0	N/A	ug/L	654	0	86	70-130			
Ethane	999	2.0	N/A	ug/L	1227	0	81	70-130			
Ethylene	847	3.0	N/A	ug/L	1145	0	74	70-130			
Blank Analyzed: 02/06/2008 (080206GC8ALB)						**Source:**					
Methane	ND	1.0	N/A	ug/L				-			
Ethane	ND	2.0	N/A	ug/L				-			
Ethylene	ND	3.0	N/A	ug/L				-			

TestAmerica Irvine

Trupti Mistry
Project Manager

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BOE-C6-0188281

Avocet Environmental Inc.	Project ID: Boeing C-6 Torrance	
16 Technology Drive, Suite 154	1155.002	Sampled: 01/30/08
Irvine, CA 92618	Report Number: IRA2908	Received: 01/30/08
Attention: Michael Rendina		

DATA QUALIFIERS AND DEFINITIONS

B	Analyte was detected in the associated Method Blank.
J	estimated value
Ja	Estimated value. Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). The user of this data should be aware that this data is of limited reliability.
M	Recovery/RPD poor for MS/MSD, SAMP/DUP
RL1	Reporting limit raised due to sample matrix effects.
U	Non detect
ND	Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
RPD	Relative Percent Difference

ADDITIONAL COMMENTS

For 8260 analyses:

Due to the high water solubility of alcohols and ketones, the calibration criteria for these compounds is <30% RSD. The average % RSD of all compounds in the calibration is 15%, in accordance with EPA methods.

TestAmerica Irvine

Trupti Mistry
Project Manager

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
17461 Derian Avenue. Suite 100, Irvine, CA 92614 (949) 261-1022 Fax:(949) 260-3297

Avocet Environmental Inc. | Project ID: Boeing C-6 Torrance
16 Technology Drive, Suite 154 | 1155.002 | Sampled: 01/30/08
Irvine, CA 92618 | Report Number: IRA2908 | Received: 01/30/08
Attention: Michael Rendina

Certification Summary

TestAmerica Irvine

Method	Matrix	Nelac	California
EPA 160.1	Water	X	X
EPA 300.0	Water	X	X
EPA 310.1	Water	X	X
EPA 8260B	Water	X	X
EPA 9060A MOD.	Water		X

Nevada and NELAP provide analyte specific accreditations. Analyte specific information for TestAmerica may be obtained by contacting the laboratory or visiting our website at www.testamericainc.com

Subcontracted Laboratories

Air Technology Laboratories, Inc.
Method Performed: RSK-175
Samples: IRA2908-03, IRA2908-04, IRA2908-05

Idaho State University - Dept. of Bio Sci - MRCF
650 Memorial Drive - Pocatello, ID 83209
Analysis Performed: Outside Analysis
Samples: IRA2908-03, IRA2908-04, IRA2908-05

ISU Molecular
Method Performed: PCR
Samples: IRA2908-03, IRA2908-04, IRA2908-05

Method Performed: qPCR TaqMan assay
Samples: IRA2908-03, IRA2908-04, IRA2908-05

Microseeps-SUB
220 William Pitt Way - Pittsburgh, PA 15238
Method Performed: AM23G
Samples: IRA2908-03, IRA2908-04, IRA2908-05

TestAmerica Irvine

Trupti Mistry
Project Manager

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BOE-C6-0188282

AIR TECHNOLOGY Laboratories, Inc.

FL Cert #E87647/LA Cert #04140
EPA Method TO14A/TO15
EPA Method TO3
RSK-175
EPA Method 25C/3C

February 12, 2008

TestAmerica
ATTN: Trupti Mistry
17461 Derian Ave., Suite 100
Irvine, CA 92614

LABORATORY TEST RESULTS

Project Reference: IRA2908
Lab Number: A8013109-01/03

Enclosed are results for sample(s) received 1/31/08 by Air Technology Laboratories. Analyses were performed according to specifications on the chain of custody provided with the sample(s).

Report Narrative:

- Sample analyses were performed within method performance criteria and meet all requirements of the NELAC Standards.
- All results are reported without qualifications.

ATL appreciates the opportunity to provide testing services to your company. If you have any questions regarding these results, please call me at (626) 964-4032.

Sincerely,

Mark Johnson
Operations Manager
MJohnson@AirTechLabs.com

Enclosures

Note: The cover letter is an integral part of this analytical report.

18501 E. Gale Avenue, Suite 130 ♦ City of Industry, CA 91748 ♦ Ph: (626) 964-4032 ♦ Fx: (626) 964-5832

AVOCET ENVIRONMENTAL, INC.
18 Technology Drive, Suite 134
Irvine, California 92618-2301
TEL (949) 296-0977
FAX (949) 296-0978

Sheet 1 of 1 — IRA2908 — Boeing COC No. AV020080130A

CHAIN OF CUSTODY RECORD

Project Information:

Site Name	Boeing Former C-6 Facility - Building 1/36
Site Address	Los Angeles, CA
Project No	1155.002
Project Manager	Michael Rendina
Sampled By	Darren Brandner
Turn-Around-Time	Standard TAT, 48 hr holding time for NO_2

Sample Identification	Sample Date	Sample Time	Matrix	No. of Cntnrs.	Lab I.D. Number	VOCs inc. fuel oxys (EPA 8260B)	TOC (EPA 9060)	VFA by IC Method BM23G (Microseeps, Inc. Pittsburgh, PA)	Dissolved Gases (Ethane, Ethene, and Methane by RSK 175)	Dissolved Minerals (sulfate, Nitrate, nitrite, and chloride) by EPA Method 300	Total Alkalinity by EPA Method 310	Quantitative Polymerase Chain Reaction (qPCR) analysis for DHC 16S rRNA gene and functional genes tceA, bvcA, and vcrA (North Wind, Inc. Pocatello, ID)	Total Dissolved Solids (TDS) EPA160.1	Comments
TB_AV20080130_0001	-	-	Water	3		X								
EB_AV20080130_0001	01/30/08	930	Water	3		X								
AW0075UB_WG20080130_01	01/30/08	844	Water	12		X	X	X	X	X	X	X	X	
AW0076UB_WG20080130_01	01/30/08	1217	Water	12		X	X	X	X	X	X	X	X	
AW0077UB_WG20080130_01	01/30/08	1014	Water	12		X	X	X	X	X	X	X	X	

48HR HT for NO2

Please forward VFA & qPCR analyses to identified laboratories ASAP.

Relinquished by	Company	Received by	Company
Printed Name: Dave Brandner		Printed Name: Michael Rendina	
Signature:	Date: 1/30/08	Signature:	Date: 1-30-08
Date:	Time: 1:20	Time: 1420	
Printed Name:		Printed Name:	
Signature:	Date:	Signature:	Date:
Time:		Time:	
Printed Name:		Printed Name:	
Signature:	Date:	Signature:	Date:
Time:		Time:	

Sample Receipt
Total Containers
Temperature °C / °F
COC Seal (Y/N/NA)

Billing Information
Bill To:

Special Instructions

Analyses

5:14
1/30/08

SUBCONTRACT ORDER

TestAmerica Irvine

IRA2908 A8013109-01|02;A-C

SENDING LABORATORY:

TestAmerica Irvine
17461 Derian Avenue. Suite 100
Irvine, CA 92614
Phone: (949) 261-1022
Fax: (949) 260-3297
Project Manager: Trupti Mistry

RECEIVING LABORATORY:

Air Technology Lab - SUB
18501 E. Gale Avenue, Suite #130
City of Industry, CA 91748
Phone :(626) 964-4032
Fax: (626) 964-5832
Project Location: California
Receipt Temperature: -1 °C Ice: (Y) / N

Analysis	Units	Due	Expires	Comments
Sample ID: IRA2908-03	**Water**		Sampled: 01/30/08 08:44	-01
Diss. Gasses-OUT	mg/l	02/13/08	02/13/08 08:44	RSK175,sub=ATL,C2H4,C2H6,CH4,El mnt EDD,BOE 9/05
Containers Supplied:				
40 mL VOA w/HCL + rubber septa (D)	40 mL VOA w/HCL + rubber septa (E)		40 mL VOA w/HCL + rubber septa (F)	
Sample ID: IRA2908-04	**Water**		Sampled: 01/30/08 12:17	-02
Diss. Gasses-OUT	mg/l	02/13/08	02/13/08 12:17	RSK175,sub=ATL,C2H4,C2H6,CH4,El mnt EDD,BOE 9/05
Containers Supplied:				
40 mL VOA w/HCL + rubber septa (D)	40 mL VOA w/HCL + rubber septa (E)		40 mL VOA w/HCL + rubber septa (F)	
Sample ID: IRA2908-05	**Water**		Sampled: 01/30/08 10:14	-03
Diss. Gasses-OUT	mg/l	02/13/08	02/13/08 10:14	RSK175,sub=ATL,C2H4,C2H6,CH4,El mnt EDD,BOE 9/05
Containers Supplied:				
40 mL VOA w/HCL + rubber septa (D)	40 mL VOA w/HCL + rubber septa (E)		40 mL VOA w/HCL + rubber septa (F)	

Released By	Date/Time	Received By	Date/Time
	1/31/08 0955		1/31/08 0955
	1/31/08 1340		1/31/08 1340

Client: TestAmerica
Attn: Trupti Mistry

Client's Project: IRA2908
Date Received: 1/31/2008
Matrix: Water
Units: ug/L

Dissolved Gases by EPA Procedure RSKSOP-175

Lab No.:		A8013109-01		A8013109-02		A8013109-03	
Client Sample I.D.:		IRA2908-03		IRA2908-04		IRA2908-05	
Date Sampled:		1/30/2008		1/30/2008		1/30/2008	
Date Analyzed:		2/6/2008		2/6/2008		2/6/2008	
Analyst Initials:		DT		DT		DT	
Data File:		06feb020		06feb021		06feb022	
QC Batch:		080206GC8A1		080206GC8A1		080206GC8A1	
Dilution Factor:		1.0		1.0		1.0	
ANALYTE	POQ	RL	Results	RL	Results	RL	Results
Methane	1.0	1.0	33	1.0	2.8	1.0	1,600
Ethane	2.0	2.0	ND	2.0	ND	2.0	ND
Ethylene	3.0	3.0	ND	3.0	30	3.0	61

PQL = Practical Quantitation Limit
ND = Not Detected (Below RL)
RL = PQL X Dilution Factor

Reviewed/Approved By: Mark J. Johnson, Operations Manager Date: 2-12-08

The cover letter is an integral part of this analytical report.

BOE-C6-0188284

QC Batch No.: 080206GC8A1
Matrix: Water
Units: ug/L

QC for Dissolved Gases by EPA Procedure RSKSOP-175

Lab No.:		Method Blank		LCS		LCSD			
Date Analyzed:		02/06/08		02/06/08		02/06/08			
Analyst Initials:		DT		DT		DT			
Datafile:		06feb004		06feb002		06feb003			
Dilution Factor:		1.0		1.0		1.0			
ANALYTE	PQL	RL	Results	% Rec.	Criteria	% Rec.	Criteria	%RPD	Criteria
Methane	1.0	1.0	ND	86	70-130%	78	70-130%	8.9	<30
Ethane	2.0	2.0	ND	81	70-130%	76	70-130%	7.4	<30
Ethylene	3.0	3.0	ND	74	70-130%	72	70-130%	3.2	<30

PQL = Practical Quantitation Limit
ND = Not Detected (Below RL).
RL = PQL X Dilution Factor

Reviewed/Approved By: Mark J. Johnson
Operations Manager

Date: 2-12-08

The cover letter is an integral part of this analytical report.

AIrTECHNOLOGY Laboratories, Inc.
18501 E. Gale Avenue, Suite 130 ♦ City of Industry, CA 91748 ♦ Ph: (626) 964-4032 ♦ Fx: (626) 964-5832

microseeps
from insight comes solutions

Client Name: Test America
Contact: Trupti Mistry
Address: 17461 Derian Ave
Suite 100
Irvine, CA 92614

Page: Page 1 of 9
Lab Proj #: P0801377
Report Date: 02/13/08
Client Proj Name: IRA2908
Client Proj #: IRA2908

Laboratory Results

Total pages in data package: 46

Lab Sample #	Client Sample ID
P0801377-01	IRA2908-03
P0801377-02	IRA2908-04
P0801377-03	IRA2908-05

Microseeps test results meet all the requirements of the NELAC standards.

Approved By: Debbie Hallo Date: 2-13-08

Project Manager: Debbie Hallo

The analytical results reported here are reliable and usable to the precision expressed in this report. As required by some regulating authorities, a full discussion of the uncertainty in our analytical results can be obtained at our web site or through customer service. Unless otherwise specified, all results are reported on a wet weight basis.

As a valued client we would appreciate your comments on our service.
Please call customer service at (412)826-5245 or email customerservice@microseeps.com.

220 William Pitt Way • Pittsburgh, PA 15238 • Tel 412-826-5245 • Fax 412-826-3433
website www.microseeps.com email info@microseeps.com

BOE-C6-0188285

Client Name: Test America
Contact: Trupti Mistry
Address: 17461 Derian Ave
Suite 100
Irvine, CA 92614

Page: Page 2 of 9
Lab Proj #: P0801377
Report Date: 02/13/08
Client Proj Name: IRA2908
Client Proj #: IRA2908

Case Narrative: The percent recoveries for the batch MS/MSD analyses for lactic and pyruvic acids were outside of control limits. The RPD and all other QC analyses were acceptable

Client Name: Test America
Contact: Trupti Mistry
Address: 17461 Derian Ave
Suite 100
Irvine, CA 92614

Page: Page 3 of 9
Lab Proj #: P0801377
Report Date: 02/13/08
Client Proj Name: IRA2908
Client Proj #: IRA2908

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
IRA2908-03	Water	P0801377-01	30 Jan. 08 8:44	31 Jan. 08 13:23

Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	By
SemiVolatiles							
N Acetic Acid		120.00	7.00	mg/L	AM23G	2/12/08	jb
N Butyric Acid		1.40	0.7	mg/L	AM23G	2/11/08	jb
N Hexanoic Acid	U	< 0.10	0.1	mg/L	AM23G	2/8/08	jb
N i-Hexanoic Acid	U	< 0.10	0.1	mg/L	AM23G	2/8/08	jb
N i-Pentanoic Acid		1.10	0.07	mg/L	AM23G	2/8/08	jb
N Lactic Acid and HIBA	J	10.00	10.00	mg/L	AM23G	2/12/08	jb
N Pentanoic Acid	U	< 0.07	0.07	mg/L	AM23G	2/8/08	jb
N Propionic Acid		11.00	0.7	mg/L	AM23G	2/11/08	jb
N Pyruvic Acid	M	0.56	0.07	mg/L	AM23G	2/8/08	jb

BOE-C6-0188286

Client Name: Test America
Contact: Trupti Mistry
Address: 17461 Derian Ave
Suite 100
Irvine, CA 92614

Page: Page 4 of 9
Lab Proj #: P0801377
Report Date: 02/13/08
Client Proj Name: IRA2908
Client Proj #: IRA2908

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
IRA2908-04	Water	P0801377-02	30 Jan. 08 12:17	31 Jan. 08 13:23

Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	By
SemiVolatiles							
N Acetic Acid		350.00	7.00	mg/L	AM23G	2/12/08	jb
N Butyric Acid		9.50	0.7	mg/L	AM23G	2/12/08	jb
N Hexanoic Acid		0.16	0.1	mg/L	AM23G	2/8/08	jb
N i-Hexanoic Acid	U	< 0.10	0.1	mg/L	AM23G	2/8/08	jb
N i-Pentanoic Acid	U	< 0.70	0.7	mg/L	AM23G	2/12/08	jb
N Lactic Acid and HIBA	U	< 10.00	10.00	mg/L	AM23G	2/12/08	jb
N Pentanoic Acid		1.00	0.07	mg/L	AM23G	2/8/08	jb
N Propionic Acid		54.00	0.7	mg/L	AM23G	2/12/08	jb
N Pyruvic Acid		1.20	0.7	mg/L	AM23G	2/12/08	jb

Data Qualifiers: J - estimated value, U - Non detect, R - Poor surrogate recovery, M - Recovery/RPD poor for MS/MSD, SAMP/DUP, B - detected in blank, S - field sample as received did not meet NELAC sample acceptance criteria, L - Subcontracted Lab used, N - NELAC certified analysis

Client Name: Test America
Contact: Trupti Mistry
Address: 17461 Derian Ave
Suite 100
Irvine, CA 92614

Page: Page 5 of 9
Lab Proj #: P0801377
Report Date: 02/13/08
Client Proj Name: IRA2908
Client Proj #: IRA2908

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
IRA2908-05	Water	P0801377-03	30 Jan. 08 10:14	31 Jan. 08 13:23

Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	By
SemiVolatiles							
N Acetic Acid		130.00	7.00	mg/L	AM23G	2/12/08	jb
N Butyric Acid		5.20	0.7	mg/L	AM23G	2/12/08	jb
N Hexanoic Acid		0.60	0.1	mg/L	AM23G	2/8/08	jb
N i-Hexanoic Acid	U	< 0.10	0.1	mg/L	AM23G	2/8/08	jb
N i-Pentanoic Acid		1.10	0.07	mg/L	AM23G	2/8/08	jb
N Lactic Acid and HIBA	U	< 10.00	10.00	mg/L	AM23G	2/12/08	jb
N Pentanoic Acid		0.43	0.07	mg/L	AM23G	2/8/08	jb
N Propionic Acid		5.90	0.7	mg/L	AM23G	2/12/08	jb
N Pyruvic Acid	M	1.20	0.07	mg/L	AM23G	2/8/08	jb

Data Qualifiers: J - estimated value, U - Non detect, R - Poor surrogate recovery, M - Recovery/RPD poor for MS/MSD, SAMP/DUP, B - detected in blank, S - field sample as received did not meet NELAC sample acceptance criteria, L - Subcontracted Lab used, N - NELAC certified analysis

BOE-C6-0188287

Client Name: Test America
Contact: Trupti Mistry
Address: 17461 Derian Ave
Suite 100
Irvine, CA 92614

Page: Page 6 of 9
Lab Proj #: P0801377
Report Date: 02/13/08
Client Proj Name: IRA2908
Client Proj #: IRA2908

Prep Method: Volatile Fatty Acids by Ion Chromatography
Analysis Method: Volatile Fatty Acids by Ion Chromatography

M080212014-MB

	Result		TrueSpikeConc.	RDL	%Recovery	Ctl Limits
Acetic Acid	< 0.07	mg/L		0.07		- NA
Propionic Acid	< 0.07	mg/L		0.07		- NA
Butyric Acid	< 0.07	mg/L		0.07		- NA
Lactic Acid and HIBA	< 0.10	mg/L		0.10		- NA
Pyruvic Acid	< 0.07	mg/L		0.07		- NA
i-Pentanoic Acid	< 0.07	mg/L		0.07		- NA
Pentanoic Acid	< 0.07	mg/L		0.07		- NA
i-Hexanoic Acid	< 0.10	mg/L		0.10		- NA
Hexanoic Acid	< 0.10	mg/L		0.10		- NA

M080212014-LCS

	Result		TrueSpikeConc.	%Recovery	Ctl Limits
Acetic Acid	1.70	mg/L	2.00	85.00	70 - 130
Propionic Acid	1.70	mg/L	2.00	85.00	70 - 130
Butyric Acid	1.70	mg/L	2.00	85.00	70 - 130
Lactic Acid and HIBA	2.00	mg/L	2.00	100.00	70 - 130
Pyruvic Acid	1.70	mg/L	2.00	85.00	70 - 130
i-Pentanoic Acid	1.60	mg/L	2.00	80.00	70 - 130
Pentanoic Acid	1.50	mg/L	2.00	75.00	70 - 130
i-Hexanoic Acid	1.50	mg/L	2.00	75.00	70 - 130
Hexanoic Acid	1.60	mg/L	2.00	80.00	70 - 130

P0802014-01A-MS

	Result		TrueSpikeConc.	%Recovery	Ctl Limits
Acetic Acid	1.60	mg/L	2.00	77.00	70 - 130
Propionic Acid	1.60	mg/L	2.00	80.00	70 - 130
Butyric Acid	1.60	mg/L	2.00	80.00	70 - 130
Lactic Acid and HIBA	1.60	mg/L	2.00	69.00	70 - 130
Pyruvic Acid	1.30	mg/L	2.00	65.00	70 - 130
i-Pentanoic Acid	1.60	mg/L	2.00	80.00	70 - 130
Pentanoic Acid	1.50	mg/L	2.00	75.00	70 - 130
i-Hexanoic Acid	1.40	mg/L	2.00	70.00	70 - 130

Data Qualifiers: J - estimated value, U - Non detect, R - Poor surrogate recovery, M - Recovery/RPD poor for MS/MSD, SAMP/DUP, B - detected in blank, S - field sample as received did not meet NELAC sample acceptance criteria, L - Subcontracted Lab used, N - NELAC certified analysis

Client Name: Test America
Contact: Trupti Mistry
Address: 17461 Derian Ave
Suite 100
Irvine, CA 92614

Page: Page 7 of 9
Lab Proj #: P0801377
Report Date: 02/13/08
Client Proj Name: IRA2908
Client Proj #: IRA2908

P0802014-01A-MS

	Result		TrueSpikeConc.	%Recovery	Ctl Limits
Hexanoic Acid	1.40	mg/L	2.00	70.00	70 - 130

P0802014-01A-MSD

	Result		TrueSpikeConc.	%Recovery	Ctl Limits	RPD	RPD Ctl Limits
Acetic Acid	1.60	mg/L	2.00	77.00	70 - 130	0.00	0 - 30
Propionic Acid	1.60	mg/L	2.00	80.00	70 - 130	0.00	0 - 30
Butyric Acid	1.60	mg/L	2.00	80.00	70 - 130	0.00	0 - 30
Lactic Acid and HIBA	1.60	mg/L	2.00	69.00	70 - 130	0.00	0 - 30
Pyruvic Acid	1.20	mg/L	2.00	60.00	70 - 130	8.00	0 - 30
i-Pentanoic Acid	1.50	mg/L	2.00	75.00	70 - 130	6.45	0 - 30
Pentanoic Acid	1.50	mg/L	2.00	75.00	70 - 130	0.00	0 - 30
i-Hexanoic Acid	1.40	mg/L	2.00	70.00	70 - 130	0.00	0 - 30
Hexanoic Acid	1.40	mg/L	2.00	70.00	70 - 130	0.00	0 - 30

Outlined Results indicate results outside of Control limits

Data Qualifiers: J - estimated value, U - Non detect, R - Poor surrogate recovery, M - Recovery/RPD poor for MS/MSD, SAMP/DUP, B - detected in blank, S - field sample as received did not meet NELAC sample acceptance criteria, L - Subcontracted Lab used, N - NELAC certified analysis

BOE-C6-0188288

Client Name: Test America
Contact: Trupti Mistry
Address: 17461 Derian Ave
Suite 100
Irvine, CA 92614

Page: Page 8 of 9
Lab Proj #: P0801377
Report Date: 02/13/08
Client Proj Name: IRA2908
Client Proj #: IRA2908

Prep Method: Volatile Fatty Acids by Ion Chromatography
Analysis Method: Volatile Fatty Acids by Ion Chromatography

M080212015-MB

	Result		TrueSpikeConc.	RDL	%Recovery	Ctl Limits
Acetic Acid	< 0.07	mg/L		0.07		- NA
Propionic Acid	< 0.07	mg/L		0.07		- NA
Butyric Acid	< 0.07	mg/L		0.07		- NA
Lactic Acid and HIBA	< 0.10	mg/L		0.10		- NA
Pyruvic Acid	< 0.07	mg/L		0.07		- NA
i-Pentanoic Acid	< 0.07	mg/L		0.07		- NA

M080212015-LCS

	Result		TrueSpikeConc.	%Recovery	Ctl Limits
Acetic Acid	1.60	mg/L	2.00	80.00	70 - 130
Propionic Acid	1.60	mg/L	2.00	80.00	70 - 130
Butyric Acid	1.60	mg/L	2.00	80.00	70 - 130
Lactic Acid and HIBA	1.80	mg/L	2.00	90.00	70 - 130
Pyruvic Acid	1.50	mg/L	2.00	75.00	70 - 130
i-Pentanoic Acid	1.50	mg/L	2.00	75.00	70 - 130

Outlined Results indicate results outside of Control limits

Data Qualifiers: J - estimated value, U - Non detect, R - Poor surrogate recovery, M - Recovery/RPD poor for MS/MSD, SAMP/DUP, B - detected in blank, S - field sample as received did not meet NELAC sample acceptance criteria, L - Subcontracted Lab used, N - NELAC certified analysis

Client Name: Test America
Contact: Trupti Mistry
Address: 17461 Derian Ave
Suite 100
Irvine, CA 92614

Page: Page 9 of 9
Lab Proj #: P0801377
Report Date: 02/13/08
Client Proj Name: IRA2908
Client Proj #: IRA2908

Prep Method: Volatile Fatty Acids by Ion Chromatography
Analysis Method: Volatile Fatty Acids by Ion Chromatography

M080212016-MB

	Result		TrueSpikeConc.	RDL	%Recovery	Ctl Limits
Acetic Acid	< 0.07	mg/L		0.07		- NA
Propionic Acid	< 0.07	mg/L		0.07		- NA
Lactic Acid and HIBA	< 0.10	mg/L		0.10		- NA

M080212016-LCS

	Result		TrueSpikeConc.	%Recovery	Ctl Limits
Acetic Acid	1.60	mg/L	2.00	80.00	70 - 130
Propionic Acid	1.60	mg/L	2.00	80.00	70 - 130
Lactic Acid and HIBA	1.80	mg/L	2.00	90.00	70 - 130

Outlined Results indicate results outside of Control limits

Data Qualifiers: J - estimated value, U - Non detect, R - Poor surrogate recovery, M - Recovery/RPD poor for MS/MSD, SAMP/DUP, B - detected in blank, S - field sample as received did not meet NELAC sample acceptance criteria, L - Subcontracted Lab used, N - NELAC certified analysis

BOE-C6-0188289

Chain of Custody Documents

SUBCONTRACT ORDER

TestAmerica Irvine
IRA2908 P08013077

SENDING LABORATORY:

TestAmerica Irvine
17461 Derian Avenue. Suite 100
Irvine, CA 92614
Phone: (949) 261-1022
Fax: (949) 260-3297
Project Manager: Trupti Mistry

RECEIVING LABORATORY:

Microseeps-SUB
220 William Pitt Way
Pittsburgh, PA 15238
Phone :412/826-5245
Fax: 412/826-3433
Project Location: California
Receipt Temperature:_____°C Ice: Y / N

Analysis	Units	Due	Expires	Comments
Sample ID: IRA2908-03	**Water**		**Sampled: 01/30/08 08:44**	
Organic Acids-Out	mg/l	02/13/08	02/27/08 08:44	sub to Microseeps; IC method
Containers Supplied:				
40 mL Amber Voa Vial (G)	40 mL Amber Voa Vial (H)			
Sample ID: IRA2908-04	**Water**		**Sampled: 01/30/08 12:17**	
Organic Acids-Out	mg/l	02/13/08	02/27/08 12:17	sub to Microseeps; IC method
Containers Supplied:				
40 mL Amber Voa Vial (G)	40 mL Amber Voa Vial (H)			
Sample ID: IRA2908-05	**Water**		**Sampled: 01/30/08 10:14**	
Organic Acids-Out	mg/l	02/13/08	02/27/08 10:14	sub to Microseeps; IC method
Containers Supplied:				
40 mL Amber Voa Vial (G)	40 mL Amber Voa Vial (H)			

Released By	Date/Time	Received By	Date/Time
Released By	Date/Time	Received By	Date/Time

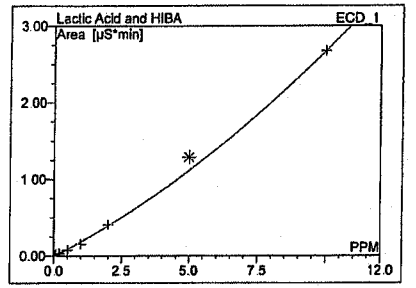
BOE-C6-0188290

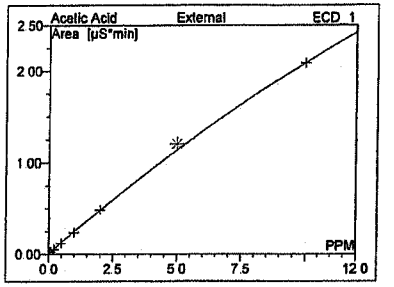
Volatile Fatty Acid Data

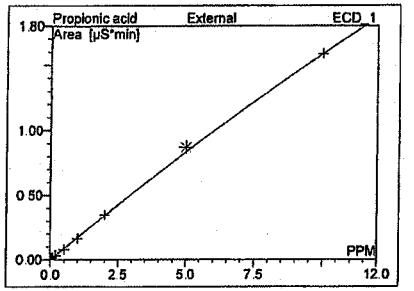
Operator:jblack Timebase:DX-500 Sequence:LLVFA 120507

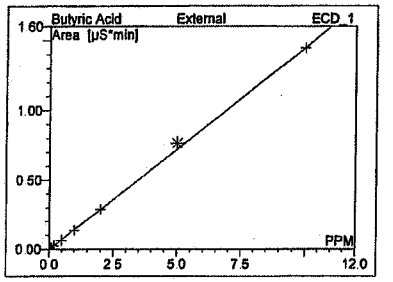
Calibration Batch Report

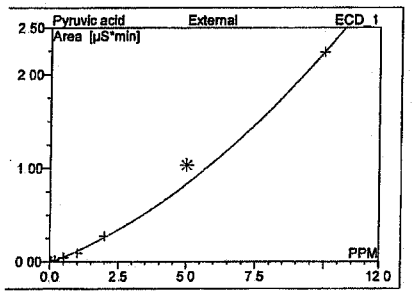
Sequence:	LLVFA 120507	Inj. Vol.:	1.0
Program:	PWM070716AA	Operator:	SEMIVOL13
Inj. Date/Time:	12/05/07	Run Time:	30.00

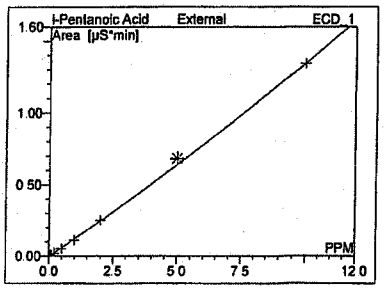










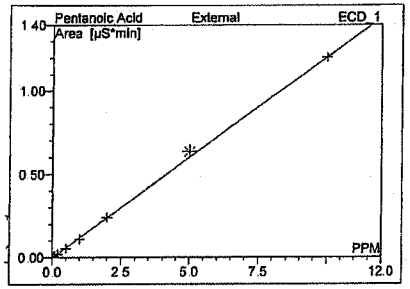


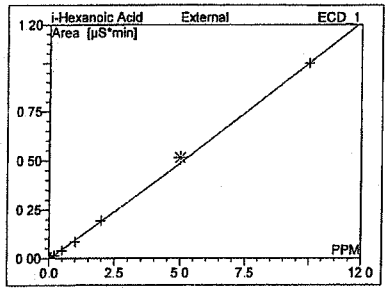
CATION_report/Calibration(Batch)

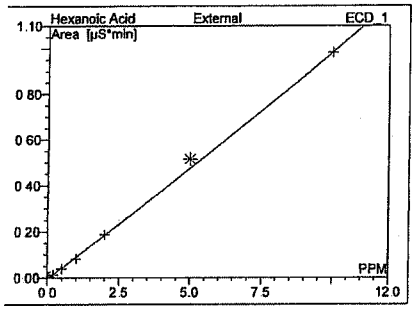
PeakNet 6 (r) Dionex 2001
Version 6.60 Build 1428

BOE-C6-0188291

Sequence:	LLVFA 120507	*Inj. Vol.:*	1.0
Program:	PWM070716AA	*Operator:*	n.a.
Inj. Date/Time:	12/05/07	*Run Time:*	30.00







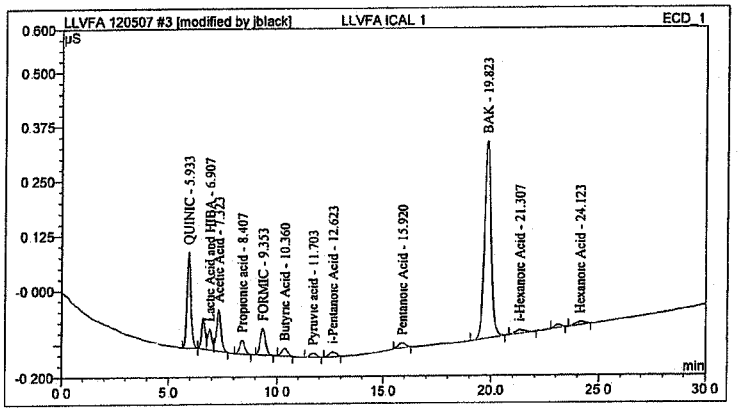
Peak Name	Cal.Mode	Cal.Type	Slope	#Points	Rel.Std.Dev.	R-Square
					%	%
QUINIC	Total	QOff	0.000	7	n.a.	n.a.
Lactic Acid and HIBA	Total	QOff	0.181	7	4.070	99.973
Acetic Acid	Total	QOff	0.244	7	1.339	99.996
Propionic acid	Total	QOff	0.176	7	1.877	99.993
FORMIC	Total	QOff	0.000	7	n.a.	n.a.
Butyric Acid	Total	QOff	0.144	7	1.472	99.996
Pyruvic acid	Total	QOff	0.112	7	3.903	99.978
i-Pentanoic Acid	Total	QOff	0.122	7	2.083	99.992
Pentanoic Acid	Total	QOff	0.121	7	1.948	99.993
BAK	Total	QOff	0.000	7	n.a.	n.a.
i-Hexanoic Acid	Total	QOff	0.096	7	2.508	99.988
Hexanoic Acid	Total	QOff	0.093	7	2.625	99.987

MICROSEEPS

Sample Analysis Report

Sample Name:	LLVFA ICAL 1	**Sequence No:**	3
Sequence Name:	LLVFA 120507	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	12/5/2007 1:34 PM	**Analytical Method:**	AM23G
System Operator:	jblack	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	5.933	0.045	0.220	BMB	n.a.
3	Lactic Acid and HIBA	6.907	0.010	0.047	M	0.1048
4	Acetic Acid	7.323	0.023	0.095	MB	0.0756
5	Propionic acid	8.407	0.009	0.032	BMB	0.0757
6	FORMIC	9.353	0.017	0.061	BMB	n.a.
7	Butyric Acid	10.360	0.005	0.017	BMB	0.0695
8	Pyruvic acid	11.703	0.003	0.009	BMB*	0.1170
9	i-Pentanoic Acid	12.623	0.004	0.011	BMB	0.0805
10	Pentanoic Acid	15.920	0.004	0.011	BMB	0.0732
11	BAK	19.823	0.162	0.451	BMB*	n.a.
12	i-Hexanoic Acid	21.307	0.004	0.008	BMB*	0.0887
14	Hexanoic Acid	24.123	0.004	0.007	BMB*	0.0948



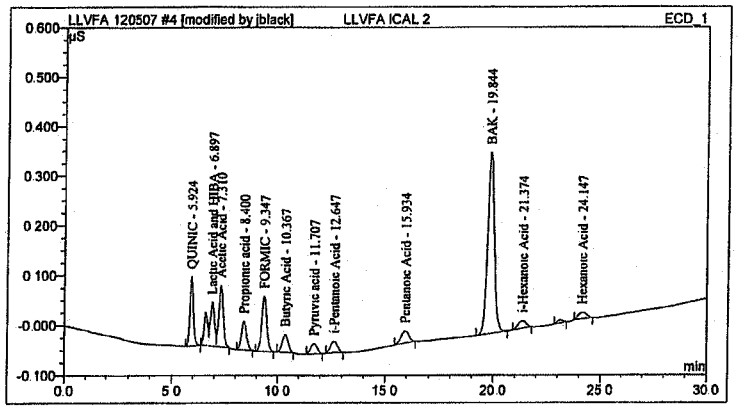
BOE-C6-0188292

MICROSEEPS

Sample Analysis Report

Sample Name:	LLVFA ICAL 2	**Sequence No:**	4
Sequence Name:	LLVFA 120507	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1 0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	12/5/2007 2:15 PM	**Analytical Method:**	AM23G
System Operator:	jblack	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	5.924	0.028	0.138	BMB	n.a.
3	Lactic Acid and HIBA	6.897	0.020	0.087	M *	0.1557
4	Acetic Acid	7.310	0.029	0.122	MB*	0.1024
5	Propionic acid	8.400	0.015	0.056	BMB	0.1136
6	FORMIC	9.347	0.030	0.110	BMB	n.a.
7	Butyric Acid	10.367	0.012	0.035	BMB	0.1125
8	Pyruvic acid	11.707	0.007	0.020	BMB	0.1498
9	i-Pentanoic Acid	12.647	0.008	0.023	BMB	0.1145
10	Pentanoic Acid	15.934	0.010	0.024	BMB	0.1184
11	BAK	19.844	0.129	0.364	BMB*	n.a.
12	i-Hexanoic Acid	21.374	0.007	0.015	BMB	0.1165
14	Hexanoic Acid	24.147	0.006	0.013	BMB	0.1169

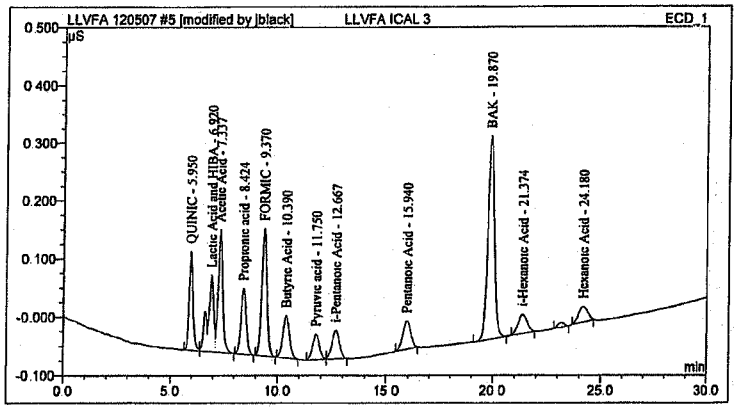


MICROSEEPS

Sample Analysis Report

Sample Name:	LLVFA ICAL 3	**Sequence No:**	5
Sequence Name:	LLVFA 120507	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1 0000
Date Time Collected:	12/5/2007 2:56 PM	**Analytical Method:**	AM23G
System Operator:	jblack	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	5.950	0.035	0.169	BM	n.a.
3	Lactic Acid and HIBA	6.920	0.030	0.131	M	0.2121
4	Acetic Acid	7.337	0.053	0.210	MB	0.1984
5	Propionic acid	8.424	0.031	0.112	BMB	0.2041
6	FORMIC	9.370	0.060	0.218	BMB	n.a.
7	Butyric Acid	10.390	0.025	0.072	BMB	0.2059
8	Pyruvic acid	11.750	0.016	0.043	BM	0.2241
9	i-Pentanoic Acid	12.667	0.020	0.048	MB	0.2064
10	Pentanoic Acid	15.940	0.020	0.048	BMB	0.2005
11	BAK	19.870	0.124	0.350	BMB*	n.a.
12	i-Hexanoic Acid	21.374	0.015	0.032	BMB	0.2074
14	Hexanoic Acid	24.180	0.013	0.026	BMB	0.1924



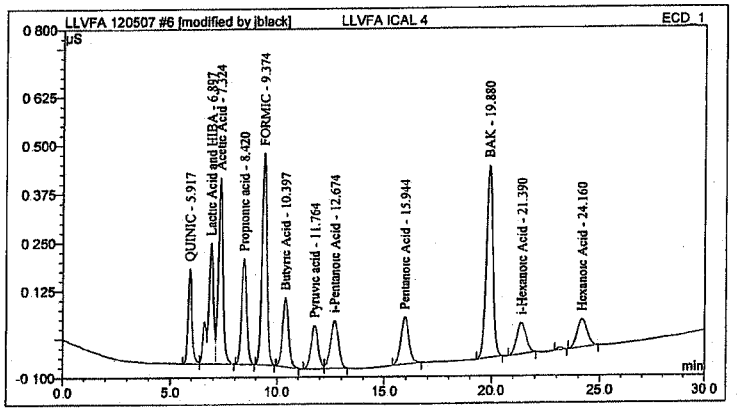
BOE-C6-0188293

MICROSEEPS

Sample Analysis Report

Sample Name:	LLVFA ICAL 4	**Sequence No:**	6
Sequence Name:	LLVFA 120507	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	12/5/2007 3:37 PM	**Analytical Method:**	AM23G
System Operator:	jblack	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	5.917	0.052	0.247	BM	n.a.
3	Lactic Acid and HIBA	6.897	0.073	0.313	M *	0.4396
4	Acetic Acid	7.324	0.121	0.481	MB	0.4822
5	Propionic acid	8.420	0.077	0.274	BMB	0.4687
6	FORMIC	9.374	0.150	0.547	BMB	n.a.
7	Butyric Acid	10.397	0.064	0.179	BMB	0.4723
8	Pyruvic acid	11.764	0.042	0.112	BM	0.4455
9	i-Pentanoic Acid	12.674	0.052	0.123	MB	0.4706
10	Pentanoic Acid	15.944	0.054	0.121	BMB	0.4784
11	BAK	19.880	0.173	0.495	BMB*	n.a.
12	i-Hexanoic Acid	21.390	0.039	0.080	BMB	0.4581
14	Hexanoic Acid	24.160	0.039	0.072	BMB	0.4742

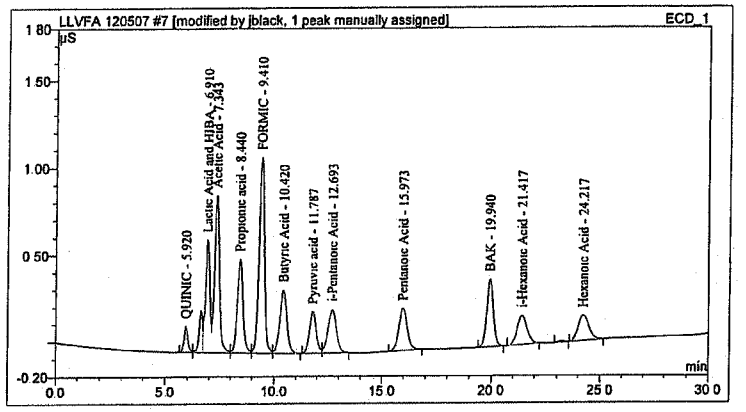


MICROSEEPS

Sample Analysis Report

Sample Name:	LLVFA ICAL 5	**Sequence No:**	7
Sequence Name:	LLVFA 120507	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	12/5/2007 4:18 PM	**Analytical Method:**	AM23G
System Operator:	jblack	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	5.920	0.031	0.148	BM ^	n.a.
3	Lactic Acid and HIBA	6.910	0.152	0.649	M	0.8523
4	Acetic Acid	7.343	0.238	0.902	M	0.9700
5	Propionic acid	8.440	0.162	0.539	M	0.9565
6	FORMIC	9.410	0.318	1.121	M	n.a.
7	Butyric Acid	10.420	0.135	0.364	MB	0.9642
8	Pyruvic acid	11.787	0.090	0.240	BM	0.8242
9	i-Pentanoic Acid	12.693	0.111	0.250	MB	0.9395
10	Pentanoic Acid	15.973	0.110	0.244	BMB	0.9446
11	BAK	19.940	0.137	0.390	BMB*	n.a.
12	i-Hexanoic Acid	21.417	0.085	0.167	BMB	0.9348
14	Hexanoic Acid	24.217	0.081	0.146	BMB	0.9248



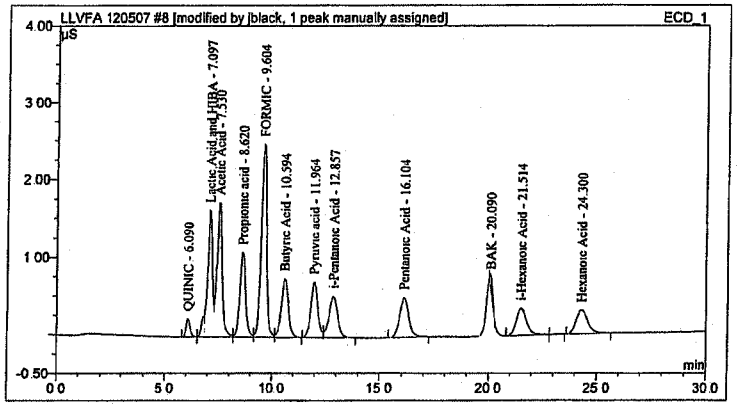
BOE-C6-0188294

MICROSEEPS

Sample Analysis Report

Sample Name:	LLVFA ICAL 6	**Sequence No:**	8
Sequence Name:	LLVFA 120507	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	12/5/2007 4:59 PM	**Analytical Method:**	AM23G
System Operator:	jblack	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	6.090	0.053	0.236	BM *^	n.a.
3	Lactic Acid and HIBA	7.097	0.407	1.634	M *	2.0856
4	Acetic Acid	7.530	0.484	1.731	M *	2.0222
5	Propionic acid	8.620	0.346	1.096	M *	2.0323
6	FORMIC	9.604	0.729	2.490	M *	n.a.
7	Butyric Acid	10.594	0.288	0.757	MB	2.0262
8	Pyruvic acid	11.964	0.273	0.715	BM	2.0895
9	i-Pentanoic Acid	12.857	0.249	0.534	MB	2.0393
10	Pentanoic Acid	16.104	0.242	0.513	BMB	2.0357
11	BAK	20.090	0.028	0.186	BMB	n.a.
12	i-Hexanoic Acid	21.514	0.194	0.347	BM	2.0455
14	Hexanoic Acid	24.300	0.188	0.309	BMB	2.0478

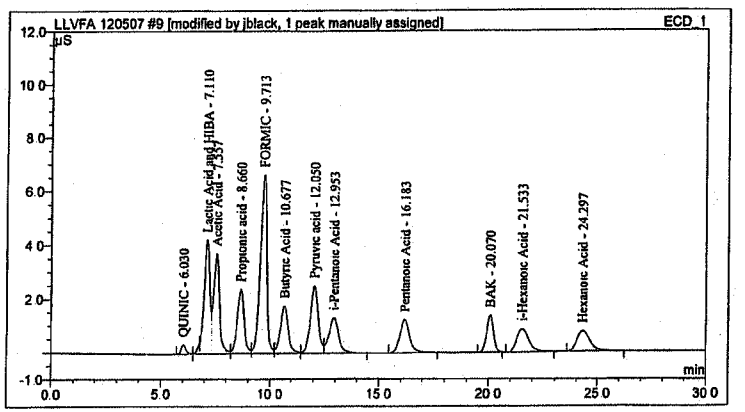


MICROSEEPS

Sample Analysis Report

Sample Name:	LLVFA ICAL 7	**Sequence No:**	9
Sequence Name:	LLVFA 120507	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	12/5/2007 5:40 PM	**Analytical Method:**	AM23G
System Operator:	jblack	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	6.030	0.088	0.340	BM ^	n.a.
3	Lactic Acid and HIBA	7.110	1.288	4.234	M *	5.6328
4	Acetic Acid	7.557	1.205	3.716	M *	5.3269
5	Propionic acid	8.660	0.869	2.394	M *	5.2306
6	FORMIC	9.713	2.290	6.631	M	n.a.
7	Butyric Acid	10.677	0.764	1.773	M	5.3103
8	Pyruvic acid	12.050	1.032	2.504	M	5.8565
9	i-Pentanoic Acid	12.953	0.682	1.299	MB*	5.3241
10	Pentanoic Acid	16.183	0.634	1.225	BMB	5.2784
11	BAK	20.070	0.476	1.367	BMB*	n.a.
12	i-Hexanoic Acid	21.533	0.515	0.838	BMB	5.2784
13	Hexanoic Acid	24.297	0.515	0.747	BMB	5.4137



BOE-C6-0188295

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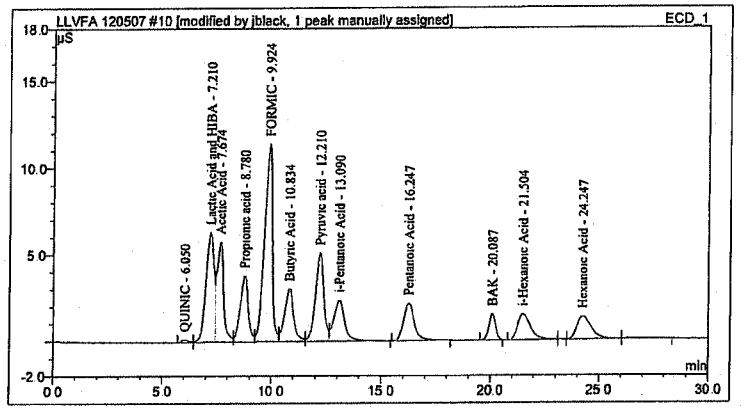
Sample Analysis Report

Sample Name:	LLVFA ICAL 8	**Sequence No:**	10
Sequence Name:	LLVFA 120507	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1 0000
Date Time Collected:	12/5/2007 6:21 PM	**Analytical Method:**	AM23G
System Operator:	jblack	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	6.050	0.048	0.147	BM ^	n.a.
2	Lactic Acid and HIBA	7.210	2.674	6.325	M	9.9988
3	Acetic Acid	7.674	2.089	5.772	M	9.9993
4	Propionic acid	8.780	1.585	3.803	M	9.9991
5	FORMIC	9.924	4.905	11.410	M	n.a.
6	Butyric Acid	10.834	1.446	3.056	M	9.9994
7	Pyruvic acid	12.210	2.238	5.097	M	9.9991
8	i-Pentanoic Acid	13.090	1.344	2.358	MB	9.9992
9	Pentanoic Acid	16.247	1.202	2.160	BMB	9.9992
10	BAK	20.087	0.520	1.505	BMB*	n.a.
11	i-Hexanoic Acid	21.504	1.001	1.478	BMb*	9.9990
13	Hexanoic Acid	24.247	0.983	1.300	BMB	9.9990

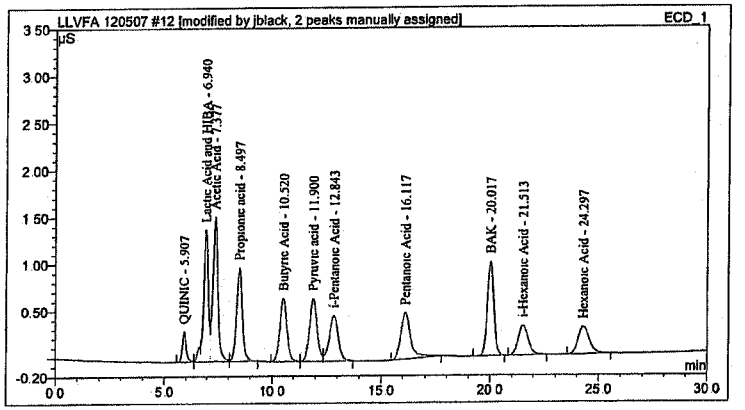


MICROSEEPS

Sample Analysis Report

Sample Name:	ICV	**Sequence No:**	12
Sequence Name:	LLVFA 120507	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	12/5/2007 7:43 PM	**Analytical Method:**	AM23G
System Operator:	jblack	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	5.907	0.073	0.323	BM	n.a.
3	Lactic Acid and HIBA	6.940	0.351	1.406	M *^	1.8248
4	Acetic Acid	7.377	0.428	1.541	M *	1.7774
5	Propionic acid	8.497	0.312	0.997	MB*	1.8313
6	Butyric Acid	10.520	0.260	0.674	BM ^	1.8294
7	Pyruvic acid	11.900	0.263	0.669	M	2.0246
8	i-Pentanoic Acid	12.843	0.225	0.481	MB	1.8472
9	Pentanoic Acid	16.117	0.253	0.494	BMB	2.1283
10	BAK	20.017	0.353	1.006	BMB*	n.a.
11	i-Hexanoic Acid	21.513	0.171	0.316	BMB	1.8110
12	Hexanoic Acid	24.297	0.175	0.292	BMB	1.9173



BOE-C6-0188296

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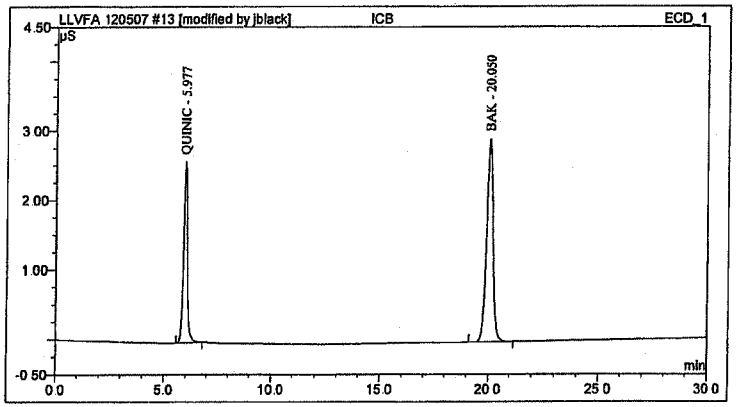
Sample Analysis Report

Sample Name:	ICB	**Sequence No:**	13
Sequence Name:	LLVFA 120507	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	12/5/2007 8:25 PM	**Analytical Method:**	AM23G
System Operator:	jblack	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	5.977	0.560	2.591	BMB	n.a.
2	BAK	20.050	1.021	2.912	BMB*	n.a.



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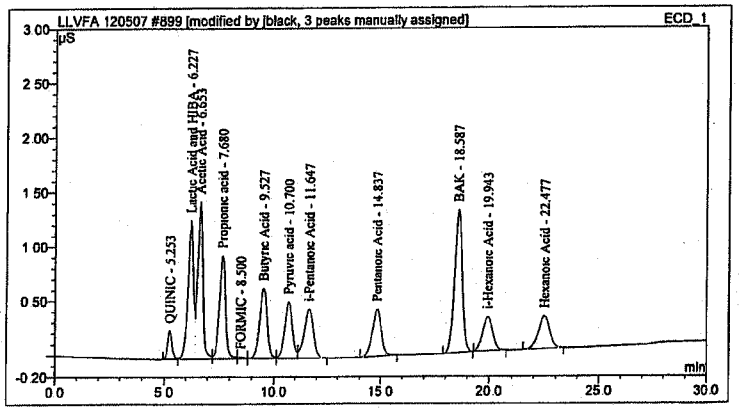
Sample Analysis Report

Sample Name:	CCV	**Sequence No:**	899
Sequence Name:	LLVFA 120507	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	2/7/2008 12:07 PM	**Analytical Method:**	AM23G
System Operator:	jblack	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	5.253	0.056	0.253	Ru	n.a.
2	Lactic Acid and HIBA	6.227	0.367	1.276	BM	1.8985
3	Acetic Acid	6.653	0.409	1.447	M	1.6975
4	Propionic acid	7.680	0.310	0.948	M	1.8203
5	FORMIC	8.500	0.005	0.015	M	n.a.
6	Butyric Acid	9.527	0.253	0.641	M	1.7841
7	Pyruvic acid	10.700	0.215	0.516	M ^	1.7163
8	i-Pentanoic Acid	11.647	0.219	0.446	MB	1.7971
9	Pentanoic Acid	14.837	0.213	0.430	BMB	1.7989
10	BAK	18.587	0.528	1.312	BMB	n.a.
11	i-Hexanoic Acid	19.943	0.161	0.309	BMB*^	1.7174
12	Hexanoic Acid	22.477	0.175	0.297	BMB^	1.9140



BOE-C6-0188297

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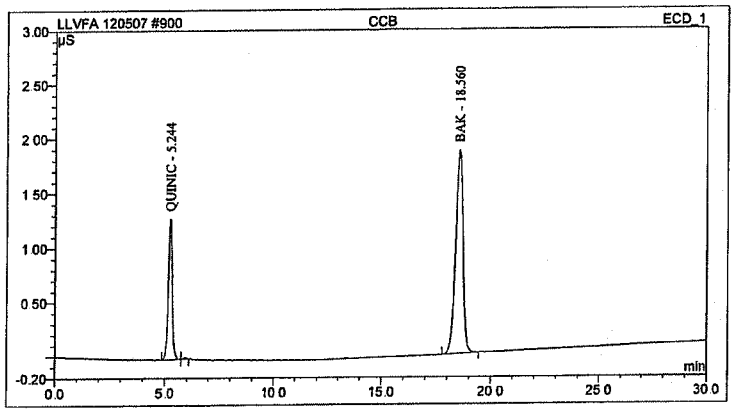
Sample Analysis Report

Sample Name:	CCB	**Sequence No:**	900
Sequence Name:	LLVFA 120507	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	2/7/2008 12:48 PM	**Analytical Method:**	AM23G
System Operator:	jblack	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	5.244	0.273	1.296	BM	n.a.
3	BAK	18.560	0.746	1.865	BMB	n.a.



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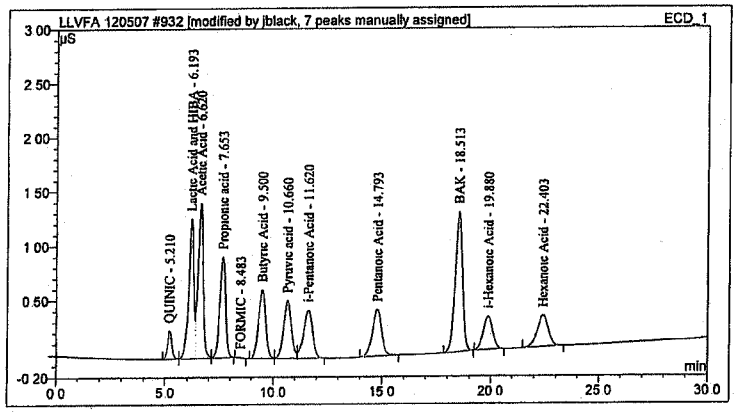
Sample Analysis Report

Sample Name:	CCV	**Sequence No:**	932
Sequence Name:	LLVFA 120507	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	2/8/2008 11:37 AM	**Analytical Method:**	AM23G
System Operator:	jblack	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	5.210	0.058	0.256	BM *^	n.a.
2	Lactic Acid and HIBA	6.193	0.358	1.279	M *^	1.8565
3	Acetic Acid	6.620	0.387	1.421	M *^	1.6031
4	Propionic acid	7.653	0.285	0.920	MB*^	1.6728
5	FORMIC	8.483	0.002	0.007	BMB^	n.a.
6	Butyric Acid	9.500	0.238	0.624	BM ^	1.6832
7	Pyruvic acid	10.660	0.213	0.524	M ^	1.6990
8	i-Pentanoic Acid	11.620	0.208	0.436	MB	1.7110
9	Pentanoic Acid	14.793	0.205	0.423	BMB	1.7332
10	BAK	18.513	0.498	1.285	BMB	n.a.
11	i-Hexanoic Acid	19.880	0.154	0.300	BMB*	1.6398
12	Hexanoic Acid	22.403	0.164	0.285	BMB	1.7982



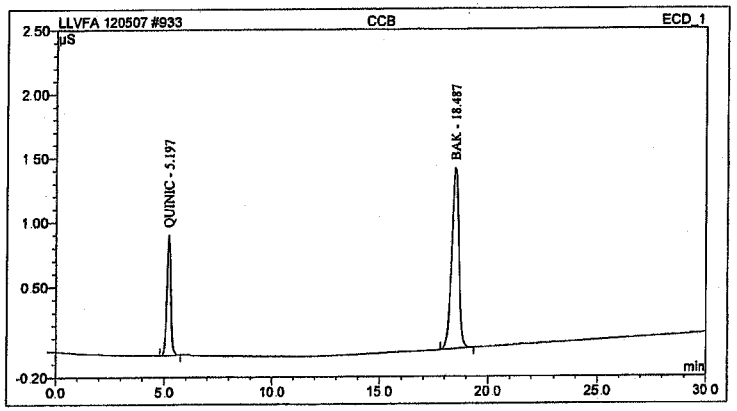
BOE-C6-0188298

MICROSEEPS

Sample Analysis Report

Sample Name:	CCB	**Sequence No:**	933
Sequence Name:	LLVFA 120507	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	2/8/2008 12:18 PM	**Analytical Method:**	AM23G
System Operator:	jblack	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	5.197	0.193	0.929	BMB	n.a.
2	BAK	18.487	0.542	1.397	BMB	n.a.



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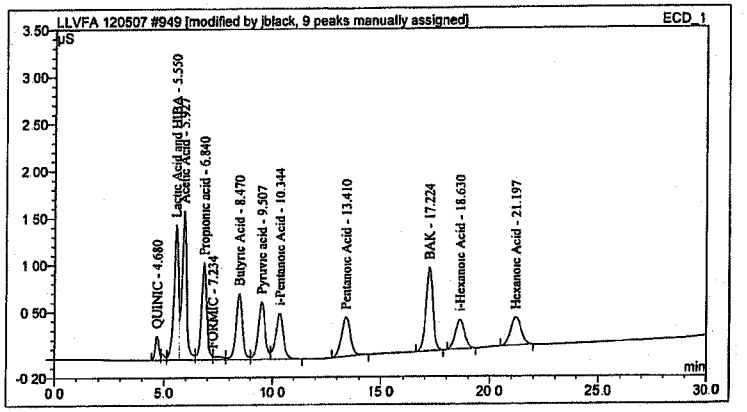
Sample Analysis Report

Sample Name:	CCV	**Sequence No:**	949
Sequence Name:	LLVFA 120507	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	2/11/2008 1:47 PM	**Analytical Method:**	AM23G
System Operator:	jblack	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	4.680	0.050	0.257	BM *	n.a.
3	Lactic Acid and HIBA	5.550	0.340	1.436	M *^	1.7735
4	Acetic Acid	5.927	0.404	1.585	M *	1.6762
5	Propionic acid	6.840	0.290	1.033	M *	1.7065
6	FORMIC	7.234	0.017	0.038	M *^	n.a.
7	Butyric Acid	8.470	0.245	0.699	M *^	1.7307
8	Pyruvic acid	9.507	0.223	0.612	M *^	1.7677
9	i-Pentanoic Acid	10.344	0.207	0.486	MB*^	1.7098
10	Pentanoic Acid	13.410	0.197	0.417	BMB*^	1.6668
11	BAK	17.224	0.326	0.887	BMB^	n.a.
12	i-Hexanoic Acid	18.630	0.155	0.309	BMB*^	1.6520
13	Hexanoic Acid	21.197	0.164	0.297	BMB^	1.8035



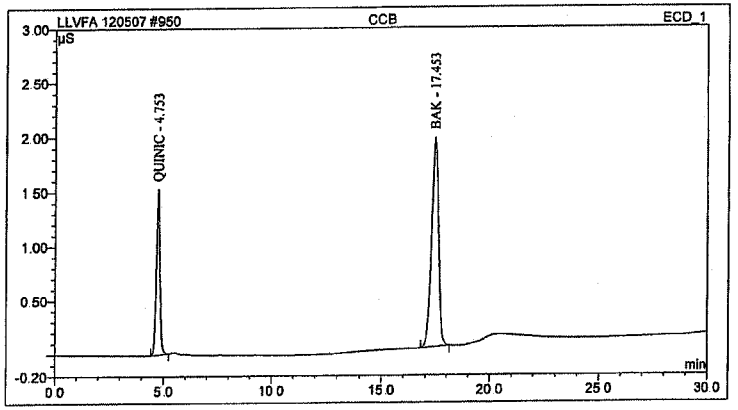
BOE-C6-0188299

MICROSEEPS

Sample Analysis Report

Sample Name:	CCB	**Sequence No:**	950
Sequence Name:	LLVFA 120507	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	2/11/2008 2:28 PM	**Analytical Method:**	AM23G
System Operator:	jblack	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	4.753	0.284	1.530	BMB	n.a.
2	BAK	17.453	0.701	1.925	BMB	n.a.

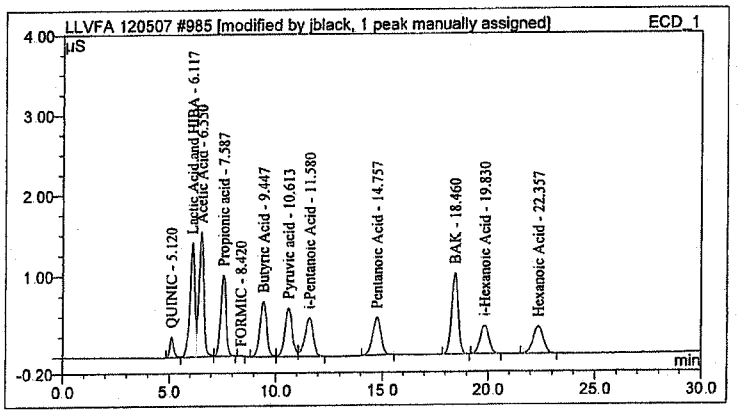


MICROSEEPS

Sample Analysis Report

Sample Name:	CCV	**Sequence No:**	985
Sequence Name:	LLVFA 120507	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	2/12/2008 3:08 PM	**Analytical Method:**	AM23G
System Operator:	jblack	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	5.120	0.056	0.256	Ru	n.a.
2	Lactic Acid and HIBA	6.117	0.379	1.405	BM	1.9587
3	Acetic Acid	6.550	0.403	1.540	M	1.6723
4	Propionic acid	7.587	0.295	0.998	MB	1.7315
5	FORMIC	8.420	0.001	0.007	BMB	n.a.
6	Butyric Acid	9.447	0.250	0.680	BM	1.7636
7	Pyruvic acid	10.613	0.236	0.601	M ^	1.8549
8	i-Pentanoic Acid	11.580	0.217	0.475	MB	1.7848
9	Pentanoic Acid	14.757	0.212	0.464	BMB	1.7911
10	BAK	18.460	0.355	0.995	BMB	n.a.
11	i-Hexanoic Acid	19.830	0.170	0.346	BMB*	1.8010
12	Hexanoic Acid	22.357	0.182	0.335	BMB	1.9876



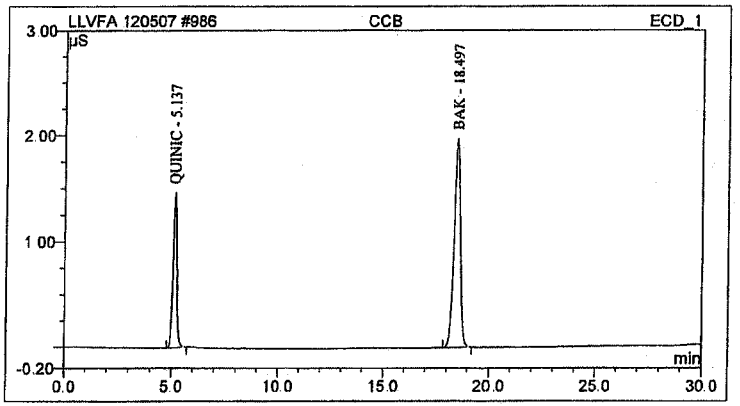
BOE-C6-0188300

MICROSEEPS

Sample Analysis Report

Sample Name:	CCB	**Sequence No:**	986
Sequence Name:	LLVFA 120507	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	2/12/2008 3:49 PM	**Analytical Method:**	AM23G
System Operator:	jblack	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	5.137	0.298	1.469	BMB	n.a.
2	BAK	18.497	0.707	1.975	BMB	n.a.

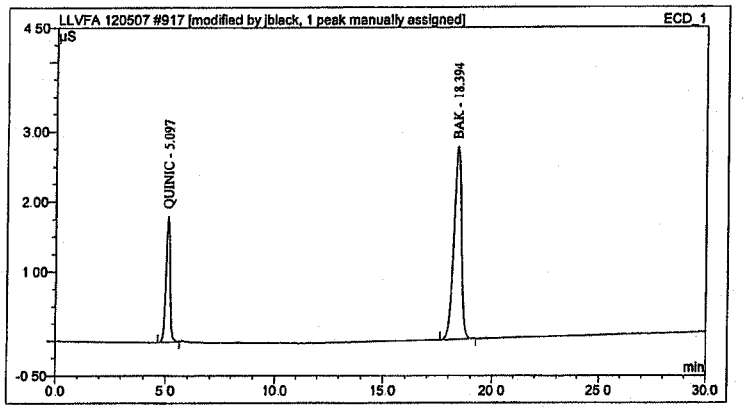


MICROSEEPS

Sample Analysis Report

Sample Name:	M080205015-MB	**Sequence No:**	917
Sequence Name:	LLVFA 120507	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	2/8/2008 1:08 AM	**Analytical Method:**	AM23G
System Operator:	jblack	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	5.097	0.386	1.810	BMB*^	n.a.
2	BAK	18.394	1.102	2.754	BMB	n.a.



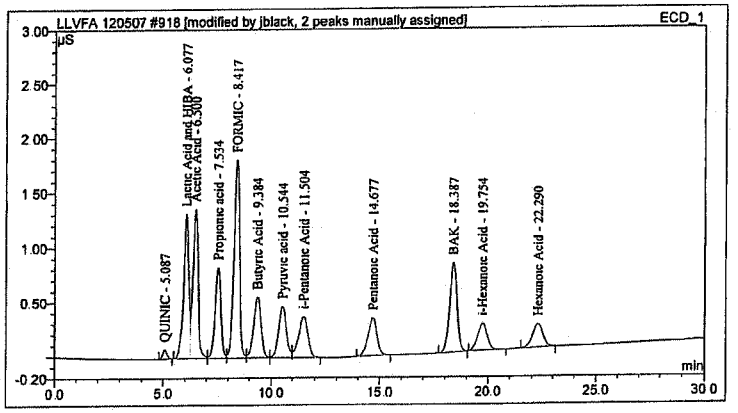
BOE-C6-0188301

MICROSEEPS

Sample Analysis Report

Sample Name:	M080205015-LCS	**Sequence No:**	918
Sequence Name:	LLVFA 120507	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	2/8/2008 1:49 AM	**Analytical Method:**	AM23G
System Operator:	jblack	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	5.087	0.018	0.083	BMB^	n.a.
2	Lactic Acid and HIBA	6.077	0.376	1.321	BM	1.9423
3	Acetic Acid	6.500	0.371	1.362	M	1.5356
4	Propionic acid	7.534	0.262	0.832	M	1.5390
5	FORMIC	8.417	0.556	1.810	M	n.a.
6	Butyric Acid	9.384	0.215	0.559	M	1.5225
7	Pyruvic acid	10.544	0.196	0.472	M ^	1.5876
8	i-Pentanoic Acid	11.504	0.181	0.375	MB	1.4971
9	Pentanoic Acid	14.677	0.166	0.347	BMB	1.4115
10	BAK	18.387	0.323	0.819	BMB	n.a.
11	i-Hexanoic Acid	19.754	0.126	0.244	BMB*	1.3500
12	Hexanoic Acid	22.290	0.119	0.213	BMB	1.3277

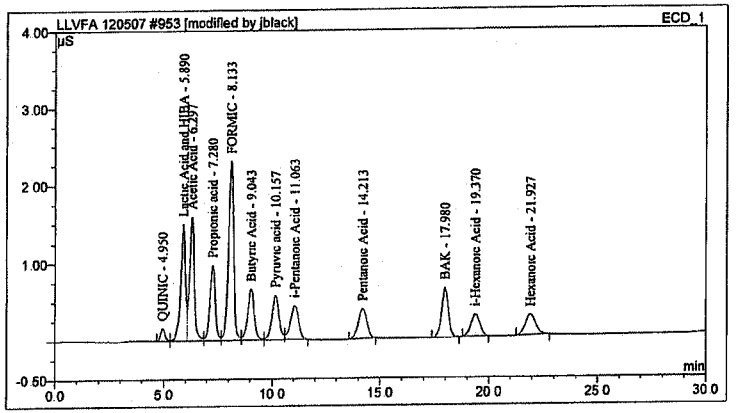


MICROSEEPS

Sample Analysis Report

Sample Name:	M080205015-LCS RERUN	**Sequence No:**	953
Sequence Name:	LLVFA 120507	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	2/11/2008 5:12 PM	**Analytical Method:**	AM23G
System Operator:	jblack	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	4.950	0.036	0.161	BM *	n.a.
2	Lactic Acid and HIBA	5.890	0.397	1.499	M *	2.0409
3	Acetic Acid	6.297	0.411	1.589	M	1.7057
4	Propionic acid	7.280	0.286	0.966	M	1.6781
5	FORMIC	8.133	0.643	2.296	M	n.a.
6	Butyric Acid	9.043	0.235	0.657	M	1.6572
7	Pyruvic acid	10.157	0.218	0.576	M	1.7366
8	i-Pentanoic Acid	11.063	0.191	0.437	MB	1.5809
9	Pentanoic Acid	14.213	0.172	0.384	BMB	1.4590
10	BAK	17.980	0.231	0.642	BMB	n.a.
11	i-Hexanoic Acid	19.370	0.136	0.282	BMB	1.4568
12	Hexanoic Acid	21.927	0.146	0.265	BMB	1.6147



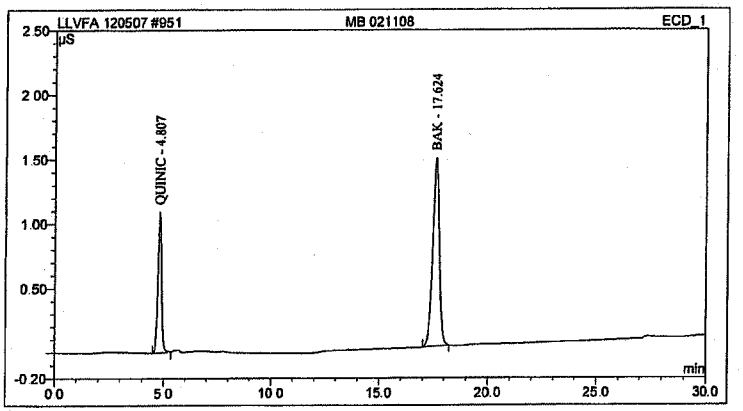
BOE-C6-0188302

MICROSEEPS

Sample Analysis Report

Sample Name:	MB 021108	**Sequence No:**	951
Sequence Name:	LLVFA 120507	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1 0000
Date Time Collected:	2/11/2008 3:09 PM	**Analytical Method:**	AM23G
System Operator:	jblack	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	4.807	0.203	1.093	BMB	n.a.
2	BAK	17.624	0.524	1.459	BMB	n.a.

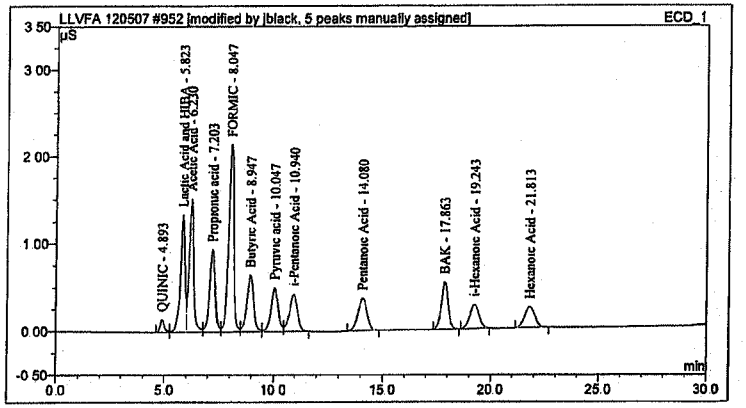


MICROSEEPS

Sample Analysis Report

Sample Name:	LCS 021108	**Sequence No:**	952
Sequence Name:	LLVFA 120507	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1 0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	2/11/2008 4:31 PM	**Analytical Method:**	AM23G
System Operator:	jblack	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	4.893	0.032	0.144	BM	n.a.
2	Lactic Acid and HIBA	5.823	0.344	1.338	M ^	1.7938
3	Acetic Acid	6.230	0.387	1.518	M	1.6048
4	Propionic acid	7.203	0.276	0.937	M	1.6229
5	FORMIC	8.047	0.592	2.143	M ^	n.a.
6	Butyric Acid	8.947	0.229	0.642	M	1.6190
7	Pyruvic acid	10.047	0.190	0.504	M	1.5434
8	i-Pentanoic Acid	10.940	0.187	0.428	MB	1.5493
9	Pentanoic Acid	14.080	0.171	0.373	BMB^	1.4523
10	BAK	17.863	0.194	0.539	BMB	n.a.
11	i-Hexanoic Acid	19.243	0.135	0.274	BMB^	1.4491
12	Hexanoic Acid	21.813	0.128	0.238	BMB*^	1.4162



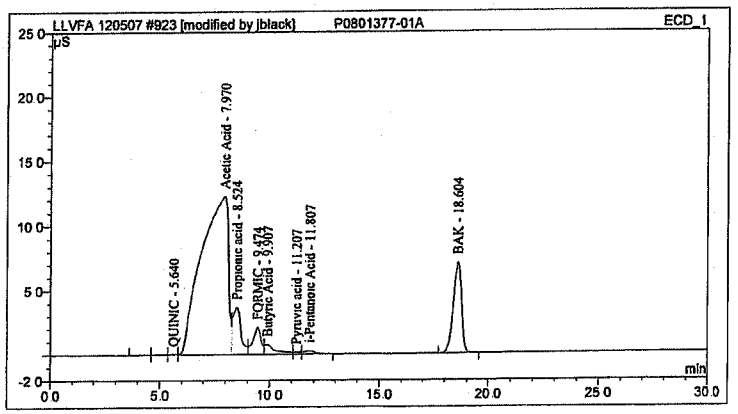
BOE-C6-0188303

MICROSEEPS

Sample Analysis Report

Sample Name:	P0801377-01A	**Sequence No:**	923
Sequence Name:	LLVFA 120507	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	2/8/2008 5:14 AM	**Analytical Method:**	AM23G
System Operator:	jblack	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
3	QUINIC	5.640	0.028	0.068	M	n.a.
4	Acetic Acid	7.970	17.496	12.252	M *	n.a.
5	Propionic acid	8.524	1.593	3.678	M *	10.0540
6	FORMIC	9.474	0.872	2.094	M *	n.a.
7	Butyric Acid	9.907	0.455	0.758	M *	3.1792
8	Pyruvic acid	11.207	0.056	0.146	M	0.5578
9	i-Pentanoic Acid	11.807	0.137	0.252	MB	1.1477
10	BAK	18.604	2.978	7.038	BMB	n.a.

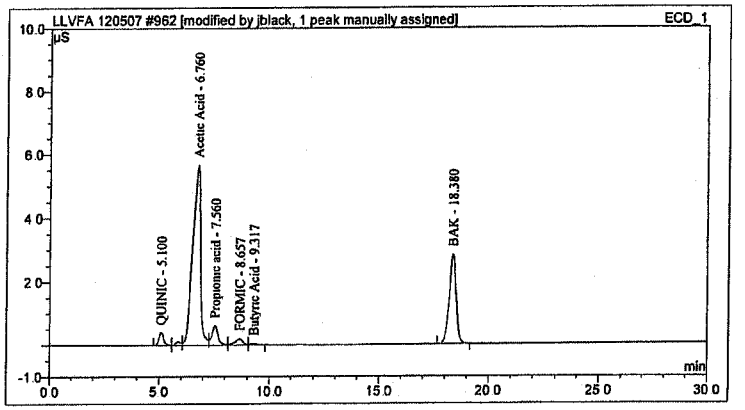


MICROSEEPS

Sample Analysis Report

Sample Name:	P0801377-01A 10X	**Sequence No:**	962
Sequence Name:	LLVFA 120507	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	2/11/2008 11:22 PM	**Analytical Method:**	AM23G
System Operator:	jblack	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	5.100	0.100	0.400	BM	n.a.
3	Acetic Acid	6.760	2.397	5.651	M *	11.8527
4	Propionic acid	7.560	0.195	0.610	M *	1.1471
5	FORMIC	8.657	0.076	0.195	M *	n.a.
6	Butyric Acid	9.317	0.015	0.041	MB*	0.1389
7	BAK	18.380	1.034	2.814	BMB	n.a.



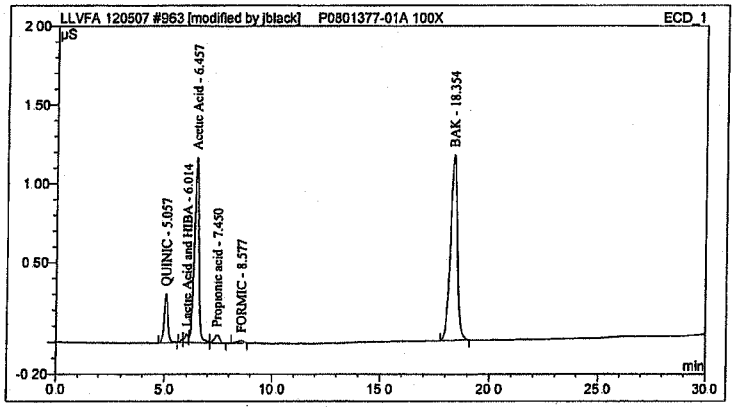
BOE-C6-0188304

MICROSEEPS

Sample Analysis Report

Sample Name:	P0801377-01A 100X	**Sequence No:**	963
Sequence Name:	LLVFA 120507	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	2/12/2008 12:03 AM	**Analytical Method:**	AM23G
System Operator:	jblack	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	5.057	0.060	0.304	BMB*	n.a.
3	Lactic Acid and HIBA	6.014	0.010	0.048	M *	0.1019
4	Acetic Acid	6.457	0.285	1.168	M *	1.1688
5	Propionic acid	7.450	0.013	0.048	MB*	0.1010
6	FORMIC	8.577	0.005	0.014	BMB*	n.a.
7	BAK	18.354	0.427	1.171	BMB	n.a.

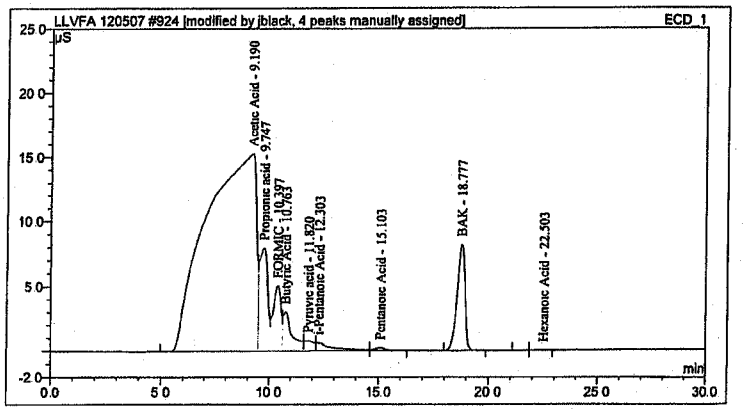


MICROSEEPS

Sample Analysis Report

Sample Name:	P0801377-02A	**Sequence No:**	924
Sequence Name:	LLVFA 120507	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	2/8/2008 5:56 AM	**Analytical Method:**	AM23G
System Operator:	jblack	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	Acetic Acid	9.190	40.212	15.233	BM ^	n.a.
2	Propionic acid	9.747	3.594	7.922	M ^	27.9156
3	FORMIC	10.397	2.107	5.020	M *^	n.a.
4	Butyric Acid	10.763	1.506	2.998	M *^	10.4118
5	Pyruvic acid	11.820	0.403	0.780	M *	2.8650
6	i-Pentanoic Acid	12.303	0.544	0.607	M *	4.3024
7	Pentanoic Acid	15.103	0.122	0.210	MB	1.0422
8	BAK	18.777	3.369	8.130	BMB	n.a.
10	Hexanoic Acid	22.503	0.009	0.016	MB	0.1569



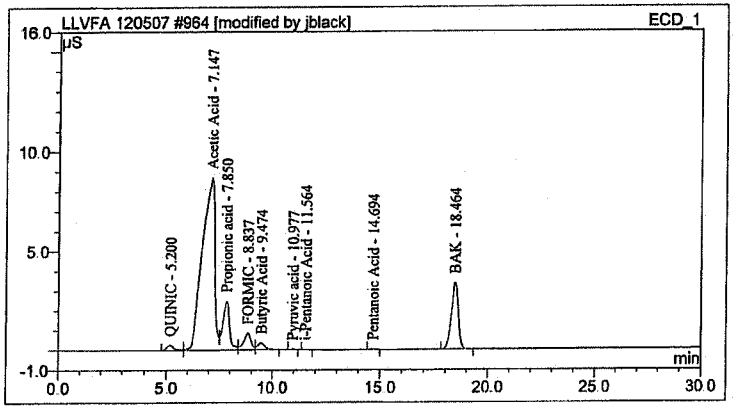
BOE-C6-0188305

MICROSEEPS

Sample Analysis Report

Sample Name:	P0801377-02A 10X	**Sequence No:**	964
Sequence Name:	LLVFA 120507	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	2/12/2008 12:44 AM	**Analytical Method:**	AM23G
System Operator:	jblack	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	5.200	0.098	0.260	BM	n.a.
2	Acetic Acid	7.147	5.962	8.678	M	n.a.
3	Propionic acid	7.850	0.897	2.473	M	5.4107
4	FORMIC	8.837	0.317	0.830	M	n.a.
5	Butyric Acid	9.474	0.132	0.329	MB	0.9481
6	Pyruvic acid	10.977	0.003	0.012	BMB*	0.1162
7	i-Pentanoic Acid	11.564	0.003	0.012	BMB*	0.0689
8	Pentanoic Acid	14.694	0.004	0.013	BMB	0.0726
9	BAK	18.464	1.232	3.353	BMB	n.a.

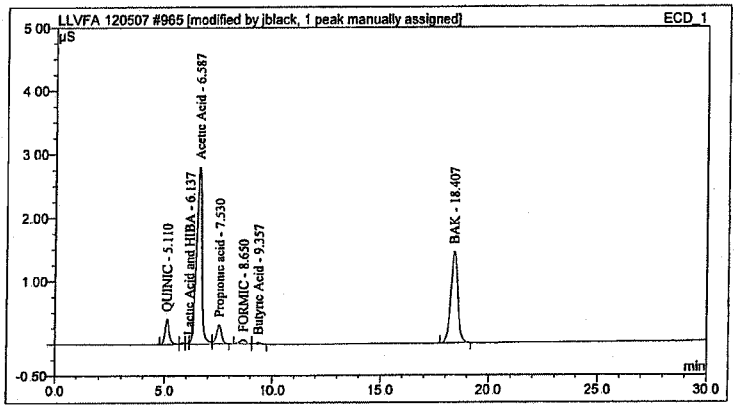


MICROSEEPS

Sample Analysis Report

Sample Name:	P0801377-02A 100X	**Sequence No:**	965
Sequence Name:	LLVFA 120507	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	2/12/2008 1:25 AM	**Analytical Method:**	AM23G
System Operator:	jblack	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	5.110	0.088	0.394	BM *	n.a.
3	Lactic Acid and HIBA	6.137	0.003	0.021	M *^	0.0642
4	Acetic Acid	6.587	0.811	2.796	M *	3.4781
5	Propionic acid	7.530	0.084	0.299	MB*	0.5081
6	FORMIC	8.650	0.020	0.064	BMB	n.a.
7	Butyric Acid	9.357	0.007	0.022	BMB	0.0790
8	BAK	18.407	0.534	1.440	BMB	n.a.



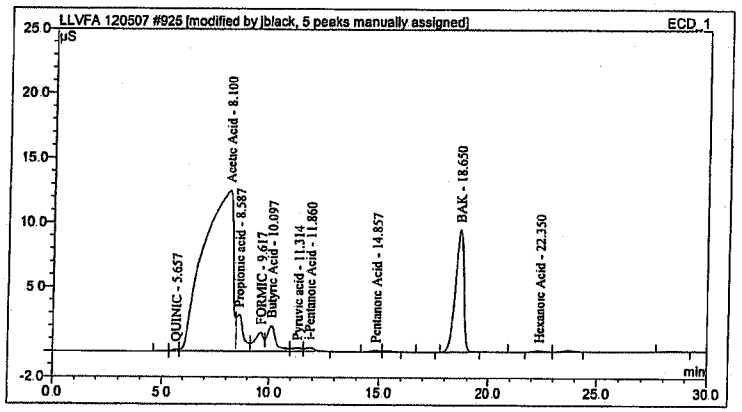
BOE-C6-0188306

MICROSEEPS

Sample Analysis Report

Sample Name:	P0801377-03A	**Sequence No:**	925
Sequence Name:	LLVFA 120507	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	2/8/2008 6:37 AM	**Analytical Method:**	AM23G
System Operator:	jblack	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
2	QUINIC	5.657	0.048	0.133	M	n.a.
3	Acetic Acid	8.100	19.526	12.485	M *^	n.a.
4	Propionic acid	8.587	1.110	2.809	M *^	6.7824
5	FORMIC	9.617	0.687	1.452	M ^	n.a.
6	Butyric Acid	10.097	0.945	1.964	M *^	6.5589
7	Pyruvic acid	11.314	0.136	0.255	M *^	1.1683
8	i-Pentanoic Acid	11.860	0.136	0.273	MB*	1.1459
9	Pentanoic Acid	14.857	0.048	0.102	BM	0.4345
12	BAK	18.650	4.090	9.467	BMB	n.a.
14	Hexanoic Acid	22.350	0.051	0.092	BM	0.6034

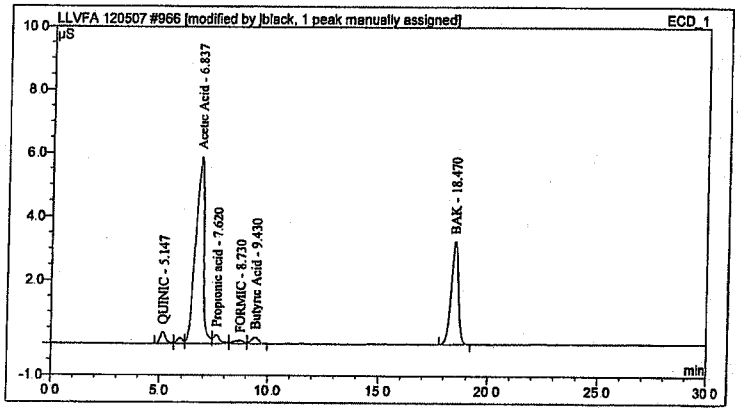


MICROSEEPS

Sample Analysis Report

Sample Name:	P0801377-03A 10X	**Sequence No:**	966
Sequence Name:	LLVFA 120507	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	2/12/2008 2:07 AM	**Analytical Method:**	AM23G
System Operator:	jblack	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	5.147	0.098	0.360	BM	n.a.
3	Acetic Acid	6.837	2.622	5.865	M	13.3169
4	Propionic acid	7.620	0.098	0.272	M	0.5897
5	FORMIC	8.730	0.047	0.088	M	n.a.
6	Butyric Acid	9.430	0.070	0.195	MB	0.5158
7	BAK	18.470	1.194	3.227	BMB	n.a.



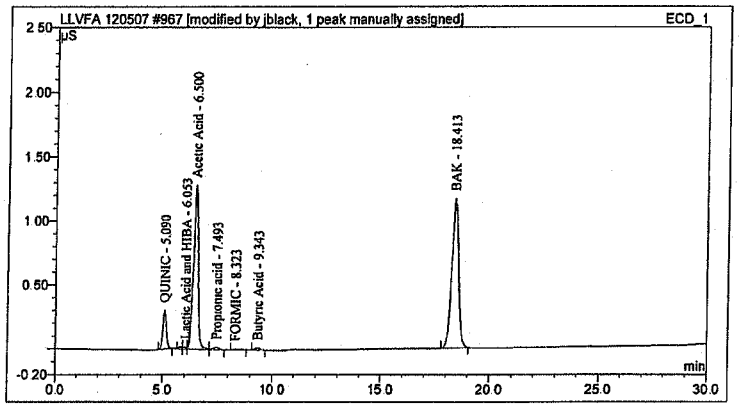
BOE-C6-0188307

MICROSEEPS

Sample Analysis Report

Sample Name:	P0801377-03A 100X	**Sequence No:**	967
Sequence Name:	LLVFA 120507	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	2/12/2008 2:48 AM	**Analytical Method:**	AM23G
System Operator:	jblack	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	5.090	0.059	0.304	BMB	n.a.
3	Lactic Acid and HIBA	6.053	0.003	0.016	M *	0.0644
4	Acetic Acid	6.500	0.317	1.282	M *	1.3024
5	Propionic acid	7.493	0.006	0.018	MB*	0.0582
6	FORMIC	8.323	0.002	0.006	BMB*^	n.a.
7	Butyric Acid	9.343	0.004	0.015	BMB	0.0618
8	BAK	18.413	0.424	1.166	BMB	n.a.



North Wind

Boeing Site Quantitative PCR Analytical Summary

13 February, 2008

Overview:

The objective of this project was to quantify the number of *Dehalococcoides sp.* (DHC) 16S rRNA gene copies and reductase functional genes (*tceA*, *vcrA*, and *bvcA* copies) contained in groundwater collected from the Boeing Site, Irvine, CA, using quantitative polymerase chain reaction (QPCR). The client is Camp, Dresser and McKee. Table 1 describes the sample matrix and the condition of the samples upon arrival to the analytical laboratory.

Table 1. Description of the Boeing Site samples and volume filtered for DNA extraction.

Well Location	Matrix–Date Sampled	Condition Received/ Observations	Volume Filtered (L)
IRA2908-03	Groundwater–01/30/2008	4°C, 1L bottles	0.75
IRA2908-04	Groundwater–01/30/2008	4°C, 1L bottles	0.75
IRA2908-05	Groundwater–01/30/2008	4°C, 1L bottles	0.60

The samples arrived in good condition at 4°C. All samples were received within 24 hours of sample collection. Upon arrival, the samples in 1-L bottles were filtered and frozen for storage at -80°C until the DNA extraction was performed. Following DNA extraction, the samples were first subjected to polymerase chain reaction (PCR) using universal bacterial probes in order to verify amplifiable DNA was present in the sample. The results of these studies are described here.

BOE-C6-0188308

North Wind

Methods:

DNA Extraction: For groundwater shipped to the laboratory, between 350 and 1L of groundwater was filtered using sterile 0.2-µm acetate filters. The filters were frozen at -80°C and then shattered. Next, each sample tube was amended with 2 mL of DNA-free water, vortexed vigorously for 5 minutes, and the liquid volume was partitioned into DNA extraction tubes. DNA extractions were performed using the Bio101 DNA Extraction Kit according to the manufacturer's instructions. DNA product was cleaned with ethanol precipitation. Community DNA was eluted in nuclease-free water (100 µL) and stored at -20°C.

Amplification of Bacteria: The PCR was used to amplify nearly full-length 16S rDNA genes from *Bacteria*. Each 25-µL PCR reaction included 0.4 mg mL-1 molecular-grade BSA (Sigma Chemicals), 5X PCR buffer (Promega), 0.5 µM each forward and reverse primer (Invitrogen), 1 U Taq DNA polymerase (Promega), 0.2 mM each dNTP (Invitrogen), 1 µL template DNA, and molecular-grade water (Promega). Amplification was performed on a PerkinElmer Model 9600 thermocycler using the following regime: 94°C (5 min) followed by 40 cycles of 94°C (1 min), 53.5°C (1 min), and 72°C (1 min). The reaction was finished with an additional 7 minutes at 72°C. PCR products were examined in a 1.0% agarose gel stained with ethidium bromide to confirm specificity of the amplification reactions.

Detection of Dehalococcoides: The QPCR methods for assessing the 16S rRNA gene, and the reductase genes *tceA, bvcA,* and *vcrA*, are very sensitive in detecting specific DNA fragments. The detection limit for the methods used is approximately 0.2 gene copies per µL of the DNA extraction. The reporting limit is 50 gene copies per µL of the DNA extraction.

A mixed laboratory culture containing *Dehalococcoides* was used to obtain the quantitative standards used in these analyses. Plasmid DNA containing DNA inserts of targets 16S rRNA gene, *tceA, bvcA*, and *vcrA* from *Dehalococcoides* were purified and quantified fluorometrically. Based on the known size of the plasmid and insert, DNA concentrations were converted to insert copy numbers. A dilution series spanning seven orders of magnitude was generated using known concentrations of each plasmid. Amplification and detection of the DNA was performed using the MJ Chromo4 System. The acceptance criterion for the standard curve is a linear R^2 value of greater than 0.995.

TaqMan Protocol. The 16S rRNA gene, and reductase genes *tceA*, bvcA and *vcrA*, QPCR reactions were performed using TaqMan chemistry. All reagents and materials used in the QPCR amplification are purchased from Applied Biosystems. The Taqman probes were synthesized using the FAM label on the 5-foot end and the TAMARA quencher for the 16S rRNA gene (Applied Biosystems), and the BHQ quencher (Biosearch Technologies) for the *tceA*, bvcA and *vcrA* reactions. Reaction volumes of 25 µL contained forward and reverse primers at a concentration of 700 nM, a probe at a concentrations of 200 nM, 1 x TaqMan Universal PCR Master Mix, and 5 µL of sample DNA. The settings for cycle number and reaction conditions used for all runs were 95°C for 10 minutes, and 45 cycles of 95°C for 15 seconds and 58°C for 1 minute. Standards and unknowns were run in triplicate to ensure reproducibility. Cycle thresholds (C_t) were set to minimize the standard deviation of standard curve triplicate C_t values, and also to obtain a standard curve slope as close to negative 3.5 as possible. The Bio-Rad (formerly MJ Research) PTC-200 Chromo 4 Thermocycler was used for all reactions. Thermocycler settings for all target genes were 95°C for 10 min, 95°C for 15 sec, and 58°C for 1 min, with a total of 45 cycles of the last two temperature steps.

North Wind

Results:

The groundwater samples arrived at the lab in good condition at 4°C with ice still in the cooler. The groundwater samples were filtered in the lab, and the filters were immediately placed in a -80°C freezer and stored until the DNA extraction was performed. Table 2 summarizes the QPCR analysis of the Boeing Site project samples. The DNA extraction negative control and all PCR negative controls did not amplify any product. In addition, all calibration control checks were within acceptable values.

Table 2. Results of molecular analyses for the Boeing Site.

Well Location	DNA (ng/L groundwater)	Universal PCR	*Dehalococcoides* 16S rDNA (copy/L groundwater)*			*Dehalococcoides* tceA (copy/L groundwater)*	*Dehalococcoides* bvcA (copy/L groundwater)*			*Dehalococcoides* vcrA (copy/L groundwater)*
IRA2908-03	652	+	1.11E+08	±	8.41E+07	0.0		1.2E+08	± 4.10E+06	0.0
IRA2908-04	828	+	4.31E+08	±	1.20E+07	0.0		4.4E+08	± 8.08E+07	0.0
IRA2908-05	9913	+	8.22E+08	±	1.65E+08	0.0		7.2E+09	± 7.25E+08	0.0

* : a * indicates that the value presented is below the reporting limit.
\# : a '+' sign indicates that amplification of *Bacteria* and *Dehalococcoides* was successful, and a '-' sign indicates that amplification was not successful.

The DNA concentration of the DNA extraction (in ng/L of groundwater) is reported as an indicator of relative biomass levels for the samples so that relative comparisons can be made. All DNA extractions yielded sufficient DNA to amplify *Bacteria* in a universal PCR reaction, and these products were visualized by gel electrophoresis, confirming that amplifiable DNA was obtained from each sample.

The *Dehalococcoides* (DHC) 16s rRNA gene and the reductase gene *bvcA* were detected in all samples. Reductase genes *tceA* and *vcrA* were not detected in any sample above the method detection limit.

BOE-C6-0188309

TestAmerica Irvine

IRA2908

SENDING LABORATORY:

TestAmerica Irvine
17461 Derian Avenue, Suite 100
Irvine, CA 92614
Phone: (949) 261-1022
Fax: (949) 260-3297
Project Manager: Trupti Mistry

RECEIVING LABORATORY:

Air Technology Lab - SUB
18501 E. Gale Avenue, Suite #130
City of Industry, CA 91748
Phone :(626) 964-4032
Fax: (626) 964-5832
Project Location: California
Receipt Temperature: _____°C Ice: Y / N

Analysis	Units	Due	Expires	Comments
Sample ID: IRA2908-03	**Water**		**Sampled: 01/30/08 08:44**	
Diss. Gasses-OUT	mg/l	02/13/08	02/13/08 08:44	RSK175,sub=ATL,C2H4,C2H6,CH4,Elmnt EDD,BOE 9/05
Containers Supplied:				
40 mL VOA w/HCL + rubber septa (D)	40 mL VOA w/HCL + rubber septa (E)		40 mL VOA w/HCL + rubber septa (F)	
Sample ID: IRA2908-04	**Water**		**Sampled: 01/30/08 12:17**	
Diss. Gasses-OUT	mg/l	02/13/08	02/13/08 12:17	RSK175,sub=ATL,C2H4,C2H6,CH4,Elmnt EDD,BOE 9/05
Containers Supplied:				
40 mL VOA w/HCL + rubber septa (D)	40 mL VOA w/HCL + rubber septa (E)		40 mL VOA w/HCL + rubber septa (F)	
Sample ID: IRA2908-05	**Water**		**Sampled: 01/30/08 10:14**	
Diss. Gasses-OUT	mg/l	02/13/08	02/13/08 10:14	RSK175,sub=ATL,C2H4,C2H6,CH4,Elmnt EDD,BOE 9/05
Containers Supplied:				
40 mL VOA w/HCL + rubber septa (D)	40 mL VOA w/HCL + rubber septa (E)		40 mL VOA w/HCL + rubber septa (F)	

Released By	Date/Time	Received By	Date/Time
Released By	Date/Time	Received By	Date/Time

North Wind

BOE-C6-0188310

TestAmerica Irvine

IRA2908

SENDING LABORATORY:

TestAmerica Irvine
17461 Derian Avenue. Suite 100
Irvine, CA 92614
Phone: (949) 261-1022
Fax: (949) 260-3297
Project Manager: Trupti Mistry

RECEIVING LABORATORY:

Idaho State University - Dept. of Bio Sci - MRCF
650 Memorial Drive
Pocatello, ID 83209
Phone :(208) 282-4890
Fax: zzz
Project Location: California
Receipt Temperature: ____ °C Ice: Y / N

Analysis	Units	Due	Expires	Comments
Sample ID: IRA2908-03	**Water**		Sampled: 01/30/08 08:44	
Outside Analysis	%	02/13/08	07/28/08 08:44	Dehalo by qPCR, sub to Idaho St ; tceA, bvcA, vcrA
Containers Supplied:				
1 Liter Poly (J)	1 Liter Poly (K)			
Sample ID: IRA2908-04	**Water**		Sampled: 01/30/08 12:17	
Outside Analysis	%	02/13/08	07/28/08 12:17	Dehalo by qPCR, sub to Idaho St ; tceA, bvcA, vcrA
Containers Supplied:				
1 Liter Poly (J)	1 Liter Poly (K)			
Sample ID: IRA2908-05	**Water**		Sampled: 01/30/08 10:14	
Outside Analysis	%	02/13/08	07/28/08 10:14	Dehalo by qPCR, sub to Idaho St ; tceA, bvcA, vcrA
Containers Supplied:				
1 Liter Poly (J)	1 Liter Poly (K)			

Released By	Date/Time	Received By	Date/Time
Released By	Date/Time	Received By	Date/Time

TestAmerica Irvine

IRA2908

SENDING LABORATORY:

TestAmerica Irvine
17461 Derian Avenue. Suite 100
Irvine, CA 92614
Phone: (949) 261-1022
Fax: (949) 260-3297
Project Manager: Trupti Mistry

RECEIVING LABORATORY:

Microseeps-SUB
220 William Pitt Way
Pittsburgh, PA 15238
Phone :412/826-5245
Fax: 412/826-3433
Project Location: California
Receipt Temperature: ____ °C Ice: Y / N

Analysis	Units	Due	Expires	Comments
Sample ID: IRA2908-03	**Water**		Sampled: 01/30/08 08:44	
Organic Acids-Out	mg/l	02/13/08	02/27/08 08:44	sub to Microseeps; IC method
Containers Supplied:				
40 mL Amber Voa Vial (G)	40 mL Amber Voa Vial (H)			
Sample ID: IRA2908-04	**Water**		Sampled: 01/30/08 12:17	
Organic Acids-Out	mg/l	02/13/08	02/27/08 12:17	sub to Microseeps; IC method
Containers Supplied:				
40 mL Amber Voa Vial (G)	40 mL Amber Voa Vial (H)			
Sample ID: IRA2908-05	**Water**		Sampled: 01/30/08 10:14	
Organic Acids-Out	mg/l	02/13/08	02/27/08 10:14	sub to Microseeps; IC method
Containers Supplied:				
40 mL Amber Voa Vial (G)	40 mL Amber Voa Vial (H)			

Released By	Date/Time	Received By	Date/Time
Released By	Date/Time	Received By	Date/Time

BOE-C6-0188311

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
17461 Derian Avenue. Suite 100, Irvine, CA 92614 (949) 261-1022 Fax:(949) 260-3297

LABORATORY REPORT

Prepared For: Avocet Environmental Inc.
16 Technology Drive, Suite 154
Irvine, CA 92618
Attention: Michael Rendina

Project: Boeing C-6 Torrance (02/26/08)
1155.003

Sampled: 02/26/08
Received: 02/26/08
Issued: 03/13/08 12:11

NELAP #01108CA California ELAP#1197 CSDLAC #10256

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica.
This entire report was reviewed and approved for release.

CASE NARRATIVE

SAMPLE RECEIPT: Samples were received intact, at 3°C, on ice and with chain of custody documentation.

HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report.

PRESERVATION: Samples requiring preservation were verified prior to sample analysis. Results were qualified where the sample container did not meet the method preservation requirements.

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.

COMMENTS: Results that fall between the MDL and RL are 'J' flagged.

SUBCONTRACTED: Refer to the last page for specific subcontract laboratory information included in this report.

ADDITIONAL INFORMATION: Please note due to multiple runs analyzed for sample -06, the final analysis was performed from a vial with headspace > 6 mm, the 8260B data has been qualified "P-HS".

LABORATORY ID	CLIENT ID	MATRIX
IRB2567-01	AW0073C_WG20080226_01	Water
IRB2567-02	AW0075UB_WG20080226_01	Water
IRB2567-03	AW0076UB_WG20080226_01	Water
IRB2567-04	AW0077UB_WG20080226_01	Water
IRB2567-05	AW0077UB_WG20080226_02	Water
IRB2567-06	EB_AV20080226_01	Water
IRB2567-07	EWB002_WG20080226_01	Water
IRB2567-08	TB_AV20080226_01	Water

Reviewed By:

TestAmerica Irvine

Trupti Mistry
Project Manager

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17461 Derian Avenue. Suite 100, Irvine, CA 92614 (949) 261-1022 Fax:(949) 260-3297

Avocet Environmental Inc.
16 Technology Drive, Suite 154
Irvine, CA 92618
Attention: Michael Rendina

Project ID: Boeing C-6 Torrance (02/26/08)
1155.003
Report Number: IRB2567

Sampled: 02/26/08
Received: 02/26/08

VOLATILE ORGANICS--GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRB2567-01 (AW0073C_WG20080226_01 - Water)									RL3
Reporting Units: ug/l									
Acrolein	EPA 8260B	8C01018	40	50	ND	10	03/01/08	03/01/08	
Acrylonitrile	EPA 8260B	8C01018	7.0	20	ND	10	03/01/08	03/01/08	
2-Chloroethyl vinyl ether	EPA 8260B	8C01018	18	50	ND	10	03/01/08	03/01/08	
Surrogate: Dibromofluoromethane (80-120%)					*98 %*				
Surrogate: Toluene-d8 (80-120%)					*96 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)					*94 %*				
Sample ID: IRB2567-02 (AW0075UB_WG20080226_01 - Water)									RL3
Reporting Units: ug/l									
Acrolein	EPA 8260B	8C01018	40	50	ND	10	03/01/08	03/01/08	
Acrylonitrile	EPA 8260B	8C01018	7.0	20	ND	10	03/01/08	03/01/08	
2-Chloroethyl vinyl ether	EPA 8260B	8C01018	18	50	ND	10	03/01/08	03/01/08	
Surrogate: Dibromofluoromethane (80-120%)					*99 %*				
Surrogate: Toluene-d8 (80-120%)					*97 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)					*93 %*				
Sample ID: IRB2567-03 (AW0076UB_WG20080226_01 - Water)									RL3
Reporting Units: ug/l									
Acrolein	EPA 8260B	8C01018	40	50	ND	10	03/01/08	03/01/08	
Acrylonitrile	EPA 8260B	8C01018	7.0	20	ND	10	03/01/08	03/01/08	
2-Chloroethyl vinyl ether	EPA 8260B	8C01018	18	50	ND	10	03/01/08	03/01/08	
Surrogate: Dibromofluoromethane (80-120%)					*101 %*				
Surrogate: Toluene-d8 (80-120%)					*96 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)					*94 %*				
Sample ID: IRB2567-04 (AW0077UB_WG20080226_01 - Water)									RL3
Reporting Units: ug/l									
Acrolein	EPA 8260B	8C01018	400	500	ND	100	03/01/08	03/01/08	
Acrylonitrile	EPA 8260B	8C01018	70	200	ND	100	03/01/08	03/01/08	
2-Chloroethyl vinyl ether	EPA 8260B	8C01018	180	500	ND	100	03/01/08	03/01/08	
Surrogate: Dibromofluoromethane (80-120%)					*99 %*				
Surrogate: Toluene-d8 (80-120%)					*95 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)					*93 %*				
Sample ID: IRB2567-05 (AW0077UB_WG20080226_02 - Water)									RL3
Reporting Units: ug/l									
Acrolein	EPA 8260B	8C01018	40	50	ND	10	03/01/08	03/01/08	
Acrylonitrile	EPA 8260B	8C01018	7.0	20	ND	10	03/01/08	03/01/08	
2-Chloroethyl vinyl ether	EPA 8260B	8C01018	18	50	ND	10	03/01/08	03/01/08	
Surrogate: Dibromofluoromethane (80-120%)					*100 %*				
Surrogate: Toluene-d8 (80-120%)					*95 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)					*94 %*				

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Trupti Mistry
Project Manager

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BOE-C6-0188312

Avocet Environmental Inc.
16 Technology Drive, Suite 154
Irvine, CA 92618
Attention: Michael Rendina

Project ID: Boeing C-6 Torrance (02/26/08)
1155.003
Report Number: IRB2567

Sampled: 02/26/08
Received: 02/26/08

VOLATILE ORGANICS--GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRB2567-06 (EB_AV20080226_01 - Water)									
Reporting Units: ug/l									
Acrolein	EPA 8260B	8C02002	4.0	5.0	ND	1	03/02/08	03/02/08	
Acrylonitrile	EPA 8260B	8C02002	0.70	2.0	ND	1	03/02/08	03/02/08	
2-Chloroethyl vinyl ether	EPA 8260B	8C02002	1.8	5.0	ND	1	03/02/08	03/02/08	
Surrogate: Dibromofluoromethane (80-120%)					*98 %*				
Surrogate: Toluene-d8 (80-120%)					*94 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)					*92 %*				
Sample ID: IRB2567-07 (EWB002_WG20080226_01 - Water)									**RL3**
Reporting Units: ug/l									
Acrolein	EPA 8260B	8C01018	400	500	ND	100	03/01/08	03/01/08	
Acrylonitrile	EPA 8260B	8C01018	70	200	ND	100	03/01/08	03/01/08	
2-Chloroethyl vinyl ether	EPA 8260B	8C01018	180	500	ND	100	03/01/08	03/01/08	
Surrogate: Dibromofluoromethane (80-120%)					*104 %*				
Surrogate: Toluene-d8 (80-120%)					*95 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)					*93 %*				
Sample ID: IRB2567-08 (TB_AV20080226_01 - Water)									
Reporting Units: ug/l									
Acrolein	EPA 8260B	8C02002	4.0	5.0	ND	1	03/02/08	03/02/08	
Acrylonitrile	EPA 8260B	8C02002	0.70	2.0	ND	1	03/02/08	03/02/08	
2-Chloroethyl vinyl ether	EPA 8260B	8C02002	1.8	5.0	ND	1	03/02/08	03/02/08	
Surrogate: Dibromofluoromethane (80-120%)					*96 %*				
Surrogate: Toluene-d8 (80-120%)					*95 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)					*92 %*				

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Trupti Mistry
Project Manager

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Avocet Environmental Inc.
16 Technology Drive, Suite 154
Irvine, CA 92618
Attention: Michael Rendina

Project ID: Boeing C-6 Torrance (02/26/08)
1155.003
Report Number: IRB2567

Sampled: 02/26/08
Received: 02/26/08

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRB2567-01 (AW0073C_WG20080226_01 - Water)									
Reporting Units: ug/l									
Toluene	EPA 8260B	8C02005	18	50	**4400**	50	03/02/08	03/02/08	
Surrogate: Dibromofluoromethane (80-120%)					*117 %*				
Surrogate: Toluene-d8 (80-120%)					*103 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)					*101 %*				
Sample ID: IRB2567-01RE1 (AW0073C_WG20080226_01 - Water)									
Reporting Units: ug/l									
Acetone	EPA 8260B	8C02005	45	100	**140**	10	03/02/08	03/02/08	
tert-Amyl Methyl Ether (TAME)	EPA 8260B	8C02005	3.3	20	ND	10	03/02/08	03/02/08	
Benzene	EPA 8260B	8C02005	2.8	5.0	**16**	10	03/02/08	03/02/08	
Bromobenzene	EPA 8260B	8C02005	2.7	10	ND	10	03/02/08	03/02/08	
Bromochloromethane	EPA 8260B	8C02005	3.2	10	ND	10	03/02/08	03/02/08	
Bromodichloromethane	EPA 8260B	8C02005	3.0	10	ND	10	03/02/08	03/02/08	
Bromoform	EPA 8260B	8C02005	4.0	10	ND	10	03/02/08	03/02/08	
Bromomethane	EPA 8260B	8C02005	4.2	10	ND	10	03/02/08	03/02/08	
tert-Butanol (TBA)	EPA 8260B	8C02005	49	250	ND	10	03/02/08	03/02/08	
2-Butanone (MEK)	EPA 8260B	8C02005	47	50	ND	10	03/02/08	03/02/08	
tert-Butylbenzene	EPA 8260B	8C02005	2.2	10	ND	10	03/02/08	03/02/08	
n-Butylbenzene	EPA 8260B	8C02005	3.7	10	ND	10	03/02/08	03/02/08	
sec-Butylbenzene	EPA 8260B	8C02005	2.5	10	ND	10	03/02/08	03/02/08	
Carbon Disulfide	EPA 8260B	8C02005	4.8	10	ND	10	03/02/08	03/02/08	
Carbon tetrachloride	EPA 8260B	8C02005	2.8	5.0	ND	10	03/02/08	03/02/08	
Chlorobenzene	EPA 8260B	8C02005	3.6	10	ND	10	03/02/08	03/02/08	
Chloroethane	EPA 8260B	8C02005	4.0	20	ND	10	03/02/08	03/02/08	
Chloroform	EPA 8260B	8C02005	3.3	10	**3.9**	10	03/02/08	03/02/08	Ja
Chloromethane	EPA 8260B	8C02005	4.0	20	ND	10	03/02/08	03/02/08	
2-Chlorotoluene	EPA 8260B	8C02005	2.8	10	ND	10	03/02/08	03/02/08	
4-Chlorotoluene	EPA 8260B	8C02005	2.9	10	ND	10	03/02/08	03/02/08	
1,2-Dibromo-3-chloropropane	EPA 8260B	8C02005	9.7	20	ND	10	03/02/08	03/02/08	C
Dibromochloromethane	EPA 8260B	8C02005	2.8	10	ND	10	03/02/08	03/02/08	
1,2-Dibromoethane (EDB)	EPA 8260B	8C02005	4.0	10	ND	10	03/02/08	03/02/08	
1,3-Dichlorobenzene	EPA 8260B	8C02005	3.5	10	ND	10	03/02/08	03/02/08	
1,4-Dichlorobenzene	EPA 8260B	8C02005	3.7	10	ND	10	03/02/08	03/02/08	
1,2-Dichlorobenzene	EPA 8260B	8C02005	3.2	10	ND	10	03/02/08	03/02/08	
Dichlorodifluoromethane	EPA 8260B	8C02005	2.6	10	ND	10	03/02/08	03/02/08	
1,1-Dichloroethane	EPA 8260B	8C02005	2.7	10	**84**	10	03/02/08	03/02/08	
1,2-Dichloroethane	EPA 8260B	8C02005	2.8	5.0	**32**	10	03/02/08	03/02/08	
cis-1,2-Dichloroethene	EPA 8260B	8C02005	3.2	10	**500**	10	03/02/08	03/02/08	
1,1-Dichloroethene	EPA 8260B	8C02005	4.2	10	**2000**	10	03/02/08	03/02/08	
trans-1,2-Dichloroethene	EPA 8260B	8C02005	2.7	10	**42**	10	03/02/08	03/02/08	
2,2-Dichloropropane	EPA 8260B	8C02005	3.4	10	ND	10	03/02/08	03/02/08	

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Project Manager

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BOE-C6-0188313

Avocet Environmental Inc.
16 Technology Drive, Suite 154
Irvine, CA 92618
Attention: Michael Rendina

Project ID: Boeing C-6 Torrance (02/26/08)
1155.003
Report Number: IRB2567

Sampled: 02/26/08
Received: 02/26/08

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRB2567-01RE1 (AW0073C_WG20080226_01 - Water) - cont.									
Reporting Units: ug/l									
1,2-Dichloropropane	EPA 8260B	8C02005	3.5	10	ND	10	03/02/08	03/02/08	
cis-1,3-Dichloropropene	EPA 8260B	8C02005	2.2	5.0	ND	10	03/02/08	03/02/08	
1,1-Dichloropropene	EPA 8260B	8C02005	2.8	10	ND	10	03/02/08	03/02/08	
trans-1,3-Dichloropropene	EPA 8260B	8C02005	3.2	5.0	ND	10	03/02/08	03/02/08	
Ethylbenzene	EPA 8260B	8C02005	2.5	10	**3.6**	10	03/02/08	03/02/08	Ja
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	8C02005	2.8	20	ND	10	03/02/08	03/02/08	
Hexachlorobutadiene	EPA 8260B	8C02005	3.8	10	ND	10	03/02/08	03/02/08	
2-Hexanone	EPA 8260B	8C02005	26	60	ND	10	03/02/08	03/02/08	
Iodomethane	EPA 8260B	8C02005	10	20	ND	10	03/02/08	03/02/08	
Isopropylbenzene	EPA 8260B	8C02005	2.5	10	ND	10	03/02/08	03/02/08	
p-Isopropyltoluene	EPA 8260B	8C02005	2.8	10	ND	10	03/02/08	03/02/08	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	8C02005	3.2	10	ND	10	03/02/08	03/02/08	
Methylene chloride	EPA 8260B	8C02005	9.5	10	ND	10	03/02/08	03/02/08	
4-Methyl-2-pentanone (MIBK)	EPA 8260B	8C02005	35	50	**1300**	10	03/02/08	03/02/08	
n-Propylbenzene	EPA 8260B	8C02005	2.7	10	ND	10	03/02/08	03/02/08	
Styrene	EPA 8260B	8C02005	1.6	10	ND	10	03/02/08	03/02/08	
1,1,1,2-Tetrachloroethane	EPA 8260B	8C02005	2.7	10	ND	10	03/02/08	03/02/08	
1,1,2,2-Tetrachloroethane	EPA 8260B	8C02005	2.4	10	ND	10	03/02/08	03/02/08	
Tetrachloroethene	EPA 8260B	8C02005	3.2	10	ND	10	03/02/08	03/02/08	
Tetrahydrofuran (THF)	EPA 8260B	8C02005	35	100	**2200**	10	03/02/08	03/02/08	
1,2,3-Trichlorobenzene	EPA 8260B	8C02005	3.0	10	ND	10	03/02/08	03/02/08	
1,2,4-Trichlorobenzene	EPA 8260B	8C02005	4.8	10	ND	10	03/02/08	03/02/08	
1,1,1-Trichloroethane	EPA 8260B	8C02005	3.0	10	**110**	10	03/02/08	03/02/08	
1,1,2-Trichloroethane	EPA 8260B	8C02005	3.0	10	**11**	10	03/02/08	03/02/08	
Trichloroethene	EPA 8260B	8C02005	2.6	10	**30**	10	03/02/08	03/02/08	
Trichlorofluoromethane	EPA 8260B	8C02005	3.4	20	ND	10	03/02/08	03/02/08	L
1,2,3-Trichloropropane	EPA 8260B	8C02005	4.0	10	ND	10	03/02/08	03/02/08	
1,3,5-Trimethylbenzene	EPA 8260B	8C02005	2.6	10	ND	10	03/02/08	03/02/08	
1,2,4-Trimethylbenzene	EPA 8260B	8C02005	2.3	10	ND	10	03/02/08	03/02/08	
Vinyl acetate	EPA 8260B	8C02005	10	60	ND	10	03/02/08	03/02/08	
o-Xylene	EPA 8260B	8C02005	3.0	5.0	**4.1**	10	03/02/08	03/02/08	Ja
Xylenes, Total	EPA 8260B	8C02005	9.0	10	**18**	10	03/02/08	03/02/08	
m,p-Xylenes	EPA 8260B	8C02005	6.0	10	**14**	10	03/02/08	03/02/08	
Surrogate: Dibromofluoromethane (80-120%)					*113 %*				
Surrogate: Toluene-d8 (80-120%)					*102 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)					*102 %*				

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Trupti Mistry
Project Manager

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Avocet Environmental Inc.
16 Technology Drive, Suite 154
Irvine, CA 92618
Attention: Michael Rendina

Project ID: Boeing C-6 Torrance (02/26/08)
1155.003
Report Number: IRB2567

Sampled: 02/26/08
Received: 02/26/08

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRB2567-01RE2 (AW0073C_WG20080226_01 - Water) - cont.									
Reporting Units: ug/l									
Vinyl chloride	EPA 8260B	8C03005	12	20	**260**	40	03/03/08	03/03/08	
Surrogate: Dibromofluoromethane (80-120%)					*92 %*				
Surrogate: Toluene-d8 (80-120%)					*98 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)					*91 %*				

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Trupti Mistry
Project Manager

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BOE-C6-0188314

Avocet Environmental Inc.
16 Technology Drive, Suite 154
Irvine, CA 92618
Attention: Michael Rendina

Project ID: Boeing C-6 Torrance (02/26/08)
1155.003
Report Number: IRB2567

Sampled: 02/26/08
Received: 02/26/08

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRB2567-01RE3 (AW0073C_WG20080226_01 - Water) - cont.									**P-HS**
Reporting Units: ug/l									
Di-isopropyl Ether (DIPE)	EPA 8260B	8C05011	2.5	20	**3.1**	10	03/05/08	03/05/08	Ja
Surrogate: Dibromofluoromethane (80-120%)					*100 %*				
Surrogate: Toluene-d8 (80-120%)					*96 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)					*94 %*				

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Trupti Mistry
Project Manager

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Attention: Michael Rendina

Project ID: Boeing C-6 Torrance (02/26/08)
1155.003
Report Number: IRB2567

Sampled: 02/26/08
Received: 02/26/08

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRB2567-02 (AW0075UB_WG20080226_01 - Water)									
Reporting Units: ug/l									
Acetone	EPA 8260B	8C02005	2200	5000	**10000**	500	03/02/08	03/02/08	
2-Butanone (MEK)	EPA 8260B	8C02005	2400	2500	**19000**	500	03/02/08	03/02/08	
4-Methyl-2-pentanone (MIBK)	EPA 8260B	8C02005	1800	2500	**26000**	500	03/02/08	03/02/08	
Toluene	EPA 8260B	8C02005	180	500	**12000**	500	03/02/08	03/02/08	
Surrogate: Dibromofluoromethane (80-120%)					*117 %*				
Surrogate: Toluene-d8 (80-120%)					*102 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)					*105 %*				
Sample ID: IRB2567-02RE1 (AW0075UB_WG20080226_01 - Water)									
Reporting Units: ug/l									
tert-Amyl Methyl Ether (TAME)	EPA 8260B	8C02005	33	200	ND	100	03/02/08	03/02/08	
Benzene	EPA 8260B	8C02005	28	50	**73**	100	03/02/08	03/02/08	
Bromobenzene	EPA 8260B	8C02005	27	100	ND	100	03/02/08	03/02/08	
Bromochloromethane	EPA 8260B	8C02005	32	100	ND	100	03/02/08	03/02/08	
Bromodichloromethane	EPA 8260B	8C02005	30	100	ND	100	03/02/08	03/02/08	
Bromoform	EPA 8260B	8C02005	40	100	ND	100	03/02/08	03/02/08	
Bromomethane	EPA 8260B	8C02005	42	100	ND	100	03/02/08	03/02/08	
tert-Butanol (TBA)	EPA 8260B	8C02005	490	2500	ND	100	03/02/08	03/02/08	
tert-Butylbenzene	EPA 8260B	8C02005	22	100	ND	100	03/02/08	03/02/08	
n-Butylbenzene	EPA 8260B	8C02005	37	100	ND	100	03/02/08	03/02/08	
sec-Butylbenzene	EPA 8260B	8C02005	25	100	ND	100	03/02/08	03/02/08	
Carbon Disulfide	EPA 8260B	8C02005	48	100	ND	100	03/02/08	03/02/08	
Carbon tetrachloride	EPA 8260B	8C02005	28	50	ND	100	03/02/08	03/02/08	
Chlorobenzene	EPA 8260B	8C02005	36	100	ND	100	03/02/08	03/02/08	
Chloroethane	EPA 8260B	8C02005	40	200	ND	100	03/02/08	03/02/08	
Chloroform	EPA 8260B	8C02005	33	100	ND	100	03/02/08	03/02/08	
Chloromethane	EPA 8260B	8C02005	40	200	ND	100	03/02/08	03/02/08	
2-Chlorotoluene	EPA 8260B	8C02005	28	100	ND	100	03/02/08	03/02/08	
4-Chlorotoluene	EPA 8260B	8C02005	29	100	ND	100	03/02/08	03/02/08	
1,2-Dibromo-3-chloropropane	EPA 8260B	8C02005	97	200	ND	100	03/02/08	03/02/08	C
Dibromochloromethane	EPA 8260B	8C02005	28	100	ND	100	03/02/08	03/02/08	
1,2-Dibromoethane (EDB)	EPA 8260B	8C02005	40	100	ND	100	03/02/08	03/02/08	
1,3-Dichlorobenzene	EPA 8260B	8C02005	35	100	ND	100	03/02/08	03/02/08	
1,4-Dichlorobenzene	EPA 8260B	8C02005	37	100	ND	100	03/02/08	03/02/08	
1,2-Dichlorobenzene	EPA 8260B	8C02005	32	100	ND	100	03/02/08	03/02/08	
Dichlorodifluoromethane	EPA 8260B	8C02005	26	100	ND	100	03/02/08	03/02/08	
1,1-Dichloroethane	EPA 8260B	8C02005	27	100	**560**	100	03/02/08	03/02/08	
1,2-Dichloroethane	EPA 8260B	8C02005	28	50	**180**	100	03/02/08	03/02/08	
cis-1,2-Dichloroethene	EPA 8260B	8C02005	32	100	**7400**	100	03/02/08	03/02/08	
1,1-Dichloroethene	EPA 8260B	8C02005	42	100	**13000**	100	03/02/08	03/02/08	
trans-1,2-Dichloroethene	EPA 8260B	8C02005	27	100	**340**	100	03/02/08	03/02/08	

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BOE-C6-0188315

Avocet Environmental Inc.
16 Technology Drive, Suite 154
Irvine, CA 92618
Attention: Michael Rendina

Project ID: Boeing C-6 Torrance (02/26/08)
1155.003
Report Number: IRB2567

Sampled: 02/26/08
Received: 02/26/08

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRB2567-02RE1 (AW0075UB_WG20080226_01 - Water) - cont.									
Reporting Units: ug/l									
2,2-Dichloropropane	EPA 8260B	8C02005	34	100	ND	100	03/02/08	03/02/08	
1,2-Dichloropropane	EPA 8260B	8C02005	35	100	ND	100	03/02/08	03/02/08	
cis-1,3-Dichloropropene	EPA 8260B	8C02005	22	50	ND	100	03/02/08	03/02/08	
1,1-Dichloropropene	EPA 8260B	8C02005	28	100	ND	100	03/02/08	03/02/08	
trans-1,3-Dichloropropene	EPA 8260B	8C02005	32	50	ND	100	03/02/08	03/02/08	
Di-isopropyl Ether (DIPE)	EPA 8260B	8C02005	25	200	ND	100	03/02/08	03/02/08	L
Ethylbenzene	EPA 8260B	8C02005	25	100	ND	100	03/02/08	03/02/08	
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	8C02005	28	200	ND	100	03/02/08	03/02/08	
Hexachlorobutadiene	EPA 8260B	8C02005	38	100	ND	100	03/02/08	03/02/08	
2-Hexanone	EPA 8260B	8C02005	260	600	ND	100	03/02/08	03/02/08	
Iodomethane	EPA 8260B	8C02005	100	200	ND	100	03/02/08	03/02/08	
Isopropylbenzene	EPA 8260B	8C02005	25	100	ND	100	03/02/08	03/02/08	
p-Isopropyltoluene	EPA 8260B	8C02005	28	100	ND	100	03/02/08	03/02/08	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	8C02005	32	100	ND	100	03/02/08	03/02/08	
Methylene chloride	EPA 8260B	8C02005	95	100	ND	100	03/02/08	03/02/08	
n-Propylbenzene	EPA 8260B	8C02005	27	100	ND	100	03/02/08	03/02/08	
Styrene	EPA 8260B	8C02005	16	100	ND	100	03/02/08	03/02/08	
1,1,1,2-Tetrachloroethane	EPA 8260B	8C02005	27	100	ND	100	03/02/08	03/02/08	
1,1,2,2-Tetrachloroethane	EPA 8260B	8C02005	24	100	ND	100	03/02/08	03/02/08	
Tetrachloroethene	EPA 8260B	8C02005	32	100	ND	100	03/02/08	03/02/08	
Tetrahydrofuran (THF)	EPA 8260B	8C02005	350	1000	ND	100	03/02/08	03/02/08	
1,2,3-Trichlorobenzene	EPA 8260B	8C02005	30	100	ND	100	03/02/08	03/02/08	
1,2,4-Trichlorobenzene	EPA 8260B	8C02005	48	100	ND	100	03/02/08	03/02/08	
1,1,1-Trichloroethane	EPA 8260B	8C02005	30	100	**250**	100	03/02/08	03/02/08	
1,1,2-Trichloroethane	EPA 8260B	8C02005	30	100	**78**	100	03/02/08	03/02/08	Ja
Trichloroethene	EPA 8260B	8C02005	26	100	**460**	100	03/02/08	03/02/08	
Trichlorofluoromethane	EPA 8260B	8C02005	34	200	ND	100	03/02/08	03/02/08	L
1,2,3-Trichloropropane	EPA 8260B	8C02005	40	100	ND	100	03/02/08	03/02/08	
1,3,5-Trimethylbenzene	EPA 8260B	8C02005	26	100	ND	100	03/02/08	03/02/08	
1,2,4-Trimethylbenzene	EPA 8260B	8C02005	23	100	ND	100	03/02/08	03/02/08	
Vinyl acetate	EPA 8260B	8C02005	100	600	ND	100	03/02/08	03/02/08	
o-Xylene	EPA 8260B	8C02005	30	50	ND	100	03/02/08	03/02/08	
Xylenes, Total	EPA 8260B	8C02005	90	100	ND	100	03/02/08	03/02/08	
m,p-Xylenes	EPA 8260B	8C02005	60	100	ND	100	03/02/08	03/02/08	
Surrogate: Dibromofluoromethane (80-120%)					*119 %*				
Surrogate: Toluene-d8 (80-120%)					*103 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)					*103 %*				

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Project Manager

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THE LEADER IN ENVIRONMENTAL TESTING
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Avocet Environmental Inc.
16 Technology Drive, Suite 154
Irvine, CA 92618
Attention: Michael Rendina

Project ID: Boeing C-6 Torrance (02/26/08)
1155.003
Report Number: IRB2567

Sampled: 02/26/08
Received: 02/26/08

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRB2567-02RE2 (AW0075UB_WG20080226_01 - Water) - cont.									
Reporting Units: ug/l									
Vinyl chloride	EPA 8260B	8C03005	30	50	**800**	100	03/03/08	03/03/08	
Surrogate: Dibromofluoromethane (80-120%)					*93 %*				
Surrogate: Toluene-d8 (80-120%)					*98 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)					*91 %*				

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Project Manager

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BOE-C6-0188316

Avocet Environmental Inc.
16 Technology Drive, Suite 154
Irvine, CA 92618
Attention: Michael Rendina

Project ID: Boeing C-6 Torrance (02/26/08)
1155.003
Report Number: IRB2567

Sampled: 02/26/08
Received: 02/26/08

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRB2567-03 (AW0076UB_WG20080226_01 - Water)									
Reporting Units: ug/l									
2-Butanone (MEK)	EPA 8260B	8C02005	9400	10000	**110000**	2000	03/02/08	03/02/08	
Surrogate: Dibromofluoromethane (80-120%)					*119 %*				
Surrogate: Toluene-d8 (80-120%)					*101 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)					*103 %*				
Sample ID: IRB2567-03RE1 (AW0076UB_WG20080226_01 - Water)									
Reporting Units: ug/l									
Acetone	EPA 8260B	8C02005	1800	4000	**31000**	400	03/02/08	03/02/08	
tert-Amyl Methyl Ether (TAME)	EPA 8260B	8C02005	130	800	ND	400	03/02/08	03/02/08	
Benzene	EPA 8260B	8C02005	110	200	ND	400	03/02/08	03/02/08	
Bromobenzene	EPA 8260B	8C02005	110	400	ND	400	03/02/08	03/02/08	
Bromochloromethane	EPA 8260B	8C02005	130	400	ND	400	03/02/08	03/02/08	
Bromodichloromethane	EPA 8260B	8C02005	120	400	ND	400	03/02/08	03/02/08	
Bromoform	EPA 8260B	8C02005	160	400	ND	400	03/02/08	03/02/08	
Bromomethane	EPA 8260B	8C02005	170	400	ND	400	03/02/08	03/02/08	
tert-Butanol (TBA)	EPA 8260B	8C02005	2000	10000	ND	400	03/02/08	03/02/08	
tert-Butylbenzene	EPA 8260B	8C02005	88	400	ND	400	03/02/08	03/02/08	
n-Butylbenzene	EPA 8260B	8C02005	150	400	ND	400	03/02/08	03/02/08	
sec-Butylbenzene	EPA 8260B	8C02005	100	400	ND	400	03/02/08	03/02/08	
Carbon Disulfide	EPA 8260B	8C02005	190	400	ND	400	03/02/08	03/02/08	
Carbon tetrachloride	EPA 8260B	8C02005	110	200	ND	400	03/02/08	03/02/08	
Chlorobenzene	EPA 8260B	8C02005	140	400	ND	400	03/02/08	03/02/08	
Chloroethane	EPA 8260B	8C02005	160	800	ND	400	03/02/08	03/02/08	
Chloroform	EPA 8260B	8C02005	130	400	ND	400	03/02/08	03/02/08	
Chloromethane	EPA 8260B	8C02005	160	800	ND	400	03/02/08	03/02/08	
2-Chlorotoluene	EPA 8260B	8C02005	110	400	ND	400	03/02/08	03/02/08	
4-Chlorotoluene	EPA 8260B	8C02005	120	400	ND	400	03/02/08	03/02/08	
1,2-Dibromo-3-chloropropane	EPA 8260B	8C02005	390	800	ND	400	03/02/08	03/02/08	C
Dibromochloromethane	EPA 8260B	8C02005	110	400	ND	400	03/02/08	03/02/08	
1,2-Dibromoethane (EDB)	EPA 8260B	8C02005	160	400	ND	400	03/02/08	03/02/08	
1,3-Dichlorobenzene	EPA 8260B	8C02005	140	400	ND	400	03/02/08	03/02/08	
1,4-Dichlorobenzene	EPA 8260B	8C02005	150	400	ND	400	03/02/08	03/02/08	
1,2-Dichlorobenzene	EPA 8260B	8C02005	130	400	ND	400	03/02/08	03/02/08	
Dichlorodifluoromethane	EPA 8260B	8C02005	100	400	ND	400	03/02/08	03/02/08	
1,1-Dichloroethane	EPA 8260B	8C02005	110	400	**920**	400	03/02/08	03/02/08	
1,2-Dichloroethane	EPA 8260B	8C02005	110	200	**220**	400	03/02/08	03/02/08	
cis-1,2-Dichloroethene	EPA 8260B	8C02005	130	400	**6000**	400	03/02/08	03/02/08	
1,1-Dichloroethene	EPA 8260B	8C02005	170	400	**6600**	400	03/02/08	03/02/08	
trans-1,2-Dichloroethene	EPA 8260B	8C02005	110	400	**330**	400	03/02/08	03/02/08	Ja
2,2-Dichloropropane	EPA 8260B	8C02005	140	400	ND	400	03/02/08	03/02/08	
1,2-Dichloropropane	EPA 8260B	8C02005	140	400	ND	400	03/02/08	03/02/08	

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Avocet Environmental Inc.
16 Technology Drive, Suite 154
Irvine, CA 92618
Attention: Michael Rendina

Project ID: Boeing C-6 Torrance (02/26/08)
1155.003
Report Number: IRB2567

Sampled: 02/26/08
Received: 02/26/08

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRB2567-03RE1 (AW0076UB_WG20080226_01 - Water) - cont.									
Reporting Units: ug/l									
cis-1,3-Dichloropropene	EPA 8260B	8C02005	88	200	ND	400	03/02/08	03/02/08	
1,1-Dichloropropene	EPA 8260B	8C02005	110	400	ND	400	03/02/08	03/02/08	
trans-1,3-Dichloropropene	EPA 8260B	8C02005	130	200	ND	400	03/02/08	03/02/08	
Di-isopropyl Ether (DIPE)	EPA 8260B	8C02005	100	800	ND	400	03/02/08	03/02/08	L
Ethylbenzene	EPA 8260B	8C02005	100	400	ND	400	03/02/08	03/02/08	
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	8C02005	110	800	ND	400	03/02/08	03/02/08	
Hexachlorobutadiene	EPA 8260B	8C02005	150	400	ND	400	03/02/08	03/02/08	
2-Hexanone	EPA 8260B	8C02005	1000	2400	ND	400	03/02/08	03/02/08	
Iodomethane	EPA 8260B	8C02005	400	800	ND	400	03/02/08	03/02/08	
Isopropylbenzene	EPA 8260B	8C02005	100	400	ND	400	03/02/08	03/02/08	
p-Isopropyltoluene	EPA 8260B	8C02005	110	400	ND	400	03/02/08	03/02/08	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	8C02005	130	400	ND	400	03/02/08	03/02/08	
Methylene chloride	EPA 8260B	8C02005	380	400	ND	400	03/02/08	03/02/08	
4-Methyl-2-pentanone (MIBK)	EPA 8260B	8C02005	1400	2000	**17000**	400	03/02/08	03/02/08	
n-Propylbenzene	EPA 8260B	8C02005	110	400	ND	400	03/02/08	03/02/08	
Styrene	EPA 8260B	8C02005	64	400	ND	400	03/02/08	03/02/08	
1,1,1,2-Tetrachloroethane	EPA 8260B	8C02005	110	400	ND	400	03/02/08	03/02/08	
1,1,2,2-Tetrachloroethane	EPA 8260B	8C02005	96	400	ND	400	03/02/08	03/02/08	
Tetrachloroethene	EPA 8260B	8C02005	130	400	ND	400	03/02/08	03/02/08	
Tetrahydrofuran (THF)	EPA 8260B	8C02005	1400	4000	ND	400	03/02/08	03/02/08	
Toluene	EPA 8260B	8C02005	140	400	**8700**	400	03/02/08	03/02/08	
1,2,3-Trichlorobenzene	EPA 8260B	8C02005	120	400	ND	400	03/02/08	03/02/08	
1,2,4-Trichlorobenzene	EPA 8260B	8C02005	190	400	ND	400	03/02/08	03/02/08	
1,1,1-Trichloroethane	EPA 8260B	8C02005	120	400	ND	400	03/02/08	03/02/08	
1,1,2-Trichloroethane	EPA 8260B	8C02005	120	400	ND	400	03/02/08	03/02/08	
Trichloroethene	EPA 8260B	8C02005	100	400	ND	400	03/02/08	03/02/08	
Trichlorofluoromethane	EPA 8260B	8C02005	140	800	ND	400	03/02/08	03/02/08	L
1,2,3-Trichloropropane	EPA 8260B	8C02005	160	400	ND	400	03/02/08	03/02/08	
1,3,5-Trimethylbenzene	EPA 8260B	8C02005	100	400	ND	400	03/02/08	03/02/08	
1,2,4-Trimethylbenzene	EPA 8260B	8C02005	92	400	ND	400	03/02/08	03/02/08	
Vinyl acetate	EPA 8260B	8C02005	400	2400	ND	400	03/02/08	03/02/08	
o-Xylene	EPA 8260B	8C02005	120	200	ND	400	03/02/08	03/02/08	
Xylenes, Total	EPA 8260B	8C02005	360	400	ND	400	03/02/08	03/02/08	
m,p-Xylenes	EPA 8260B	8C02005	240	400	ND	400	03/02/08	03/02/08	
Surrogate: Dibromofluoromethane (80-120%)					*119 %*				
Surrogate: Toluene-d8 (80-120%)					*103 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)					*101 %*				

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Project Manager

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BOE-C6-0188317

Avocet Environmental Inc.
16 Technology Drive, Suite 154
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Attention: Michael Rendina

Project ID: Boeing C-6 Torrance (02/26/08)
1155.003
Report Number: IRB2567

Sampled: 02/26/08
Received: 02/26/08

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRB2567-03RE2 (AW0076UB_WG20080226_01 - Water) - cont.									
Reporting Units: ug/l									
Vinyl chloride	EPA 8260B	8C03005	120	200	**5500**	400	03/03/08	03/03/08	
Surrogate: Dibromofluoromethane (80-120%)					*94 %*				
Surrogate: Toluene-d8 (80-120%)					*97 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)					*90 %*				

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Avocet Environmental Inc.
16 Technology Drive, Suite 154
Irvine, CA 92618
Attention: Michael Rendina

Project ID: Boeing C-6 Torrance (02/26/08)
1155.003
Report Number: IRB2567

Sampled: 02/26/08
Received: 02/26/08

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRB2567-04 (AW0077UB_WG20080226_01 - Water)									
Reporting Units: ug/l									
Vinyl chloride	EPA 8260B	8C02011	60	100	**13000**	200	03/02/08	03/02/08	
Surrogate: Dibromofluoromethane (80-120%)					*90 %*				
Surrogate: Toluene-d8 (80-120%)					*95 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)					*84 %*				
Sample ID: IRB2567-04RE1 (AW0077UB_WG20080226_01 - Water)									
Reporting Units: ug/l									
Acetone	EPA 8260B	8C02011	180	400	**300**	40	03/02/08	03/02/08	Ja
tert-Amyl Methyl Ether (TAME)	EPA 8260B	8C02011	13	80	ND	40	03/02/08	03/02/08	
Benzene	EPA 8260B	8C02011	11	20	**48**	40	03/02/08	03/02/08	
Bromobenzene	EPA 8260B	8C02011	11	40	ND	40	03/02/08	03/02/08	
Bromochloromethane	EPA 8260B	8C02011	13	40	ND	40	03/02/08	03/02/08	
Bromodichloromethane	EPA 8260B	8C02011	12	40	ND	40	03/02/08	03/02/08	
Bromoform	EPA 8260B	8C02011	16	40	ND	40	03/02/08	03/02/08	
Bromomethane	EPA 8260B	8C02011	17	40	ND	40	03/02/08	03/02/08	
tert-Butanol (TBA)	EPA 8260B	8C02011	200	1000	ND	40	03/02/08	03/02/08	
2-Butanone (MEK)	EPA 8260B	8C02011	190	200	ND	40	03/02/08	03/02/08	
tert-Butylbenzene	EPA 8260B	8C02011	8.8	40	ND	40	03/02/08	03/02/08	
n-Butylbenzene	EPA 8260B	8C02011	15	40	ND	40	03/02/08	03/02/08	
sec-Butylbenzene	EPA 8260B	8C02011	10	40	ND	40	03/02/08	03/02/08	
Carbon Disulfide	EPA 8260B	8C02011	19	40	ND	40	03/02/08	03/02/08	
Carbon tetrachloride	EPA 8260B	8C02011	11	20	ND	40	03/02/08	03/02/08	
Chlorobenzene	EPA 8260B	8C02011	14	40	ND	40	03/02/08	03/02/08	
Chloroethane	EPA 8260B	8C02011	16	80	ND	40	03/02/08	03/02/08	
Chloroform	EPA 8260B	8C02011	13	40	ND	40	03/02/08	03/02/08	
Chloromethane	EPA 8260B	8C02011	16	80	ND	40	03/02/08	03/02/08	
2-Chlorotoluene	EPA 8260B	8C02011	11	40	ND	40	03/02/08	03/02/08	
4-Chlorotoluene	EPA 8260B	8C02011	12	40	ND	40	03/02/08	03/02/08	
1,2-Dibromo-3-chloropropane	EPA 8260B	8C02011	39	80	ND	40	03/02/08	03/02/08	
Dibromochloromethane	EPA 8260B	8C02011	11	40	ND	40	03/02/08	03/02/08	
1,2-Dibromoethane (EDB)	EPA 8260B	8C02011	16	40	ND	40	03/02/08	03/02/08	
1,3-Dichlorobenzene	EPA 8260B	8C02011	14	40	ND	40	03/02/08	03/02/08	
1,4-Dichlorobenzene	EPA 8260B	8C02011	15	40	ND	40	03/02/08	03/02/08	
1,2-Dichlorobenzene	EPA 8260B	8C02011	13	40	ND	40	03/02/08	03/02/08	
Dichlorodifluoromethane	EPA 8260B	8C02011	10	40	ND	40	03/02/08	03/02/08	
1,1-Dichloroethane	EPA 8260B	8C02011	11	40	**250**	40	03/02/08	03/02/08	
1,2-Dichloroethane	EPA 8260B	8C02011	11	20	**89**	40	03/02/08	03/02/08	
cis-1,2-Dichloroethene	EPA 8260B	8C02011	13	40	**3300**	40	03/02/08	03/02/08	
1,1-Dichloroethene	EPA 8260B	8C02011	17	40	**990**	40	03/02/08	03/02/08	
trans-1,2-Dichloroethene	EPA 8260B	8C02011	11	40	**260**	40	03/02/08	03/02/08	
2,2-Dichloropropane	EPA 8260B	8C02011	14	40	ND	40	03/02/08	03/02/08	

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BOE-C6-0188318

Avocet Environmental Inc.
16 Technology Drive, Suite 154
Irvine, CA 92618
Attention: Michael Rendina

Project ID: Boeing C-6 Torrance (02/26/08)
1155.003
Report Number: IRB2567

Sampled: 02/26/08
Received: 02/26/08

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRB2567-04RE1 (AW0077UB_WG20080226_01 - Water) - cont.									
Reporting Units: ug/l									
1,2-Dichloropropane	EPA 8260B	8C02011	14	40	ND	40	03/02/08	03/02/08	
cis-1,3-Dichloropropene	EPA 8260B	8C02011	8.8	20	ND	40	03/02/08	03/02/08	
1,1-Dichloropropene	EPA 8260B	8C02011	11	40	ND	40	03/02/08	03/02/08	
trans-1,3-Dichloropropene	EPA 8260B	8C02011	13	20	ND	40	03/02/08	03/02/08	
Di-isopropyl Ether (DIPE)	EPA 8260B	8C02011	10	80	**10**	40	03/02/08	03/02/08	Ja
Ethylbenzene	EPA 8260B	8C02011	10	40	ND	40	03/02/08	03/02/08	
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	8C02011	11	80	ND	40	03/02/08	03/02/08	
Hexachlorobutadiene	EPA 8260B	8C02011	15	40	ND	40	03/02/08	03/02/08	
2-Hexanone	EPA 8260B	8C02011	100	240	ND	40	03/02/08	03/02/08	
Iodomethane	EPA 8260B	8C02011	40	80	ND	40	03/02/08	03/02/08	
Isopropylbenzene	EPA 8260B	8C02011	10	40	ND	40	03/02/08	03/02/08	
p-Isopropyltoluene	EPA 8260B	8C02011	11	40	ND	40	03/02/08	03/02/08	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	8C02011	13	40	ND	40	03/02/08	03/02/08	
Methylene chloride	EPA 8260B	8C02011	38	40	ND	40	03/02/08	03/02/08	
4-Methyl-2-pentanone (MIBK)	EPA 8260B	8C02011	140	200	ND	40	03/02/08	03/02/08	
n-Propylbenzene	EPA 8260B	8C02011	11	40	ND	40	03/02/08	03/02/08	
Styrene	EPA 8260B	8C02011	6.4	40	ND	40	03/02/08	03/02/08	
1,1,1,2-Tetrachloroethane	EPA 8260B	8C02011	11	40	ND	40	03/02/08	03/02/08	
1,1,2,2-Tetrachloroethane	EPA 8260B	8C02011	9.6	40	ND	40	03/02/08	03/02/08	
Tetrachloroethene	EPA 8260B	8C02011	13	40	ND	40	03/02/08	03/02/08	
Tetrahydrofuran (THF)	EPA 8260B	8C02011	140	400	ND	40	03/02/08	03/02/08	
Toluene	EPA 8260B	8C02011	14	40	**190**	40	03/02/08	03/02/08	
1,2,3-Trichlorobenzene	EPA 8260B	8C02011	12	40	ND	40	03/02/08	03/02/08	
1,2,4-Trichlorobenzene	EPA 8260B	8C02011	19	40	ND	40	03/02/08	03/02/08	
1,1,1-Trichloroethane	EPA 8260B	8C02011	12	40	ND	40	03/02/08	03/02/08	
1,1,2-Trichloroethane	EPA 8260B	8C02011	12	40	**44**	40	03/02/08	03/02/08	
Trichlorofluoromethane	EPA 8260B	8C02011	14	80	ND	40	03/02/08	03/02/08	
1,2,3-Trichloropropane	EPA 8260B	8C02011	16	40	ND	40	03/02/08	03/02/08	
1,3,5-Trimethylbenzene	EPA 8260B	8C02011	10	40	ND	40	03/02/08	03/02/08	
1,2,4-Trimethylbenzene	EPA 8260B	8C02011	9.2	40	ND	40	03/02/08	03/02/08	
Vinyl acetate	EPA 8260B	8C02011	40	240	ND	40	03/02/08	03/02/08	
o-Xylene	EPA 8260B	8C02011	12	20	ND	40	03/02/08	03/02/08	
Xylenes, Total	EPA 8260B	8C02011	36	40	ND	40	03/02/08	03/02/08	
m,p-Xylenes	EPA 8260B	8C02011	24	40	ND	40	03/02/08	03/02/08	
Surrogate: Dibromofluoromethane (80-120%)					*90 %*				
Surrogate: Toluene-d8 (80-120%)					*92 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)					*83 %*				

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THE LEADER IN ENVIRONMENTAL TESTING
17461 Derian Avenue. Suite 100, Irvine, CA 92614 (949) 261-1022 Fax:(949) 260-3297

Avocet Environmental Inc.
16 Technology Drive, Suite 154
Irvine, CA 92618
Attention: Michael Rendina

Project ID: Boeing C-6 Torrance (02/26/08)
1155.003
Report Number: IRB2567

Sampled: 02/26/08
Received: 02/26/08

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRB2567-04RE2 (AW0077UB_WG20080226_01 - Water) - cont.									
Reporting Units: ug/l									
Trichloroethene	EPA 8260B	8C06006	10	40	ND	40	03/06/08	03/06/08	
Surrogate: Dibromofluoromethane (80-120%)					*88 %*				
Surrogate: Toluene-d8 (80-120%)					*91 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)					*81 %*				

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BOE-C6-0188319

TestAmerica
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17461 Derian Avenue. Suite 100, Irvine, CA 92614 (949) 261-1022 Fax:(949) 260-3297

Avocet Environmental Inc.
16 Technology Drive, Suite 154
Irvine, CA 92618
Attention: Michael Rendina

Project ID: Boeing C-6 Torrance (02/26/08)
1155.003
Report Number: IRB2567

Sampled: 02/26/08
Received: 02/26/08

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRB2567-05 (AW0077UB_WG20080226_02 - Water)									
Reporting Units: ug/l									
Vinyl chloride	EPA 8260B	8C02011	30	50	**11000**	100	03/02/08	03/02/08	
Surrogate: Dibromofluoromethane (80-120%)					*92 %*				
Surrogate: Toluene-d8 (80-120%)					*93 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)					*82 %*				
Sample ID: IRB2567-05RE1 (AW0077UB_WG20080226_02 - Water)									
Reporting Units: ug/l									
Acetone	EPA 8260B	8C02011	90	200	**370**	20	03/02/08	03/02/08	
tert-Amyl Methyl Ether (TAME)	EPA 8260B	8C02011	6.6	40	ND	20	03/02/08	03/02/08	
Benzene	EPA 8260B	8C02011	5.6	10	**44**	20	03/02/08	03/02/08	
Bromobenzene	EPA 8260B	8C02011	5.4	20	ND	20	03/02/08	03/02/08	
Bromochloromethane	EPA 8260B	8C02011	6.4	20	ND	20	03/02/08	03/02/08	
Bromodichloromethane	EPA 8260B	8C02011	6.0	20	ND	20	03/02/08	03/02/08	
Bromoform	EPA 8260B	8C02011	8.0	20	ND	20	03/02/08	03/02/08	
Bromomethane	EPA 8260B	8C02011	8.4	20	ND	20	03/02/08	03/02/08	
tert-Butanol (TBA)	EPA 8260B	8C02011	98	500	ND	20	03/02/08	03/02/08	
2-Butanone (MEK)	EPA 8260B	8C02011	94	100	**190**	20	03/02/08	03/02/08	
tert-Butylbenzene	EPA 8260B	8C02011	4.4	20	ND	20	03/02/08	03/02/08	
n-Butylbenzene	EPA 8260B	8C02011	7.4	20	ND	20	03/02/08	03/02/08	
sec-Butylbenzene	EPA 8260B	8C02011	5.0	20	ND	20	03/02/08	03/02/08	
Carbon Disulfide	EPA 8260B	8C02011	9.6	20	ND	20	03/02/08	03/02/08	
Carbon tetrachloride	EPA 8260B	8C02011	5.6	10	ND	20	03/02/08	03/02/08	
Chlorobenzene	EPA 8260B	8C02011	7.2	20	ND	20	03/02/08	03/02/08	
Chloroethane	EPA 8260B	8C02011	8.0	40	ND	20	03/02/08	03/02/08	
Chloroform	EPA 8260B	8C02011	6.6	20	ND	20	03/02/08	03/02/08	
Chloromethane	EPA 8260B	8C02011	8.0	40	ND	20	03/02/08	03/02/08	
2-Chlorotoluene	EPA 8260B	8C02011	5.6	20	ND	20	03/02/08	03/02/08	
4-Chlorotoluene	EPA 8260B	8C02011	5.8	20	ND	20	03/02/08	03/02/08	
1,2-Dibromo-3-chloropropane	EPA 8260B	8C02011	19	40	ND	20	03/02/08	03/02/08	
Dibromochloromethane	EPA 8260B	8C02011	5.6	20	ND	20	03/02/08	03/02/08	
1,2-Dibromoethane (EDB)	EPA 8260B	8C02011	8.0	20	ND	20	03/02/08	03/02/08	
1,3-Dichlorobenzene	EPA 8260B	8C02011	7.0	20	ND	20	03/02/08	03/02/08	
1,4-Dichlorobenzene	EPA 8260B	8C02011	7.4	20	ND	20	03/02/08	03/02/08	
1,2-Dichlorobenzene	EPA 8260B	8C02011	6.4	20	ND	20	03/02/08	03/02/08	
Dichlorodifluoromethane	EPA 8260B	8C02011	5.2	20	ND	20	03/02/08	03/02/08	
1,1-Dichloroethane	EPA 8260B	8C02011	5.4	20	**240**	20	03/02/08	03/02/08	
1,2-Dichloroethane	EPA 8260B	8C02011	5.6	10	**93**	20	03/02/08	03/02/08	
cis-1,2-Dichloroethene	EPA 8260B	8C02011	6.4	20	**3000**	20	03/02/08	03/02/08	
1,1-Dichloroethene	EPA 8260B	8C02011	8.4	20	**950**	20	03/02/08	03/02/08	
trans-1,2-Dichloroethene	EPA 8260B	8C02011	5.4	20	**230**	20	03/02/08	03/02/08	
2,2-Dichloropropane	EPA 8260B	8C02011	6.8	20	ND	20	03/02/08	03/02/08	

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Avocet Environmental Inc.
16 Technology Drive, Suite 154
Irvine, CA 92618
Attention: Michael Rendina

Project ID: Boeing C-6 Torrance (02/26/08)
1155.003
Report Number: IRB2567

Sampled: 02/26/08
Received: 02/26/08

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRB2567-05RE1 (AW0077UB_WG20080226_02 - Water) - cont.									
Reporting Units: ug/l									
1,2-Dichloropropane	EPA 8260B	8C02011	7.0	20	ND	20	03/02/08	03/02/08	
cis-1,3-Dichloropropene	EPA 8260B	8C02011	4.4	10	ND	20	03/02/08	03/02/08	
1,1-Dichloropropene	EPA 8260B	8C02011	5.6	20	ND	20	03/02/08	03/02/08	
trans-1,3-Dichloropropene	EPA 8260B	8C02011	6.4	10	ND	20	03/02/08	03/02/08	
Di-isopropyl Ether (DIPE)	EPA 8260B	8C02011	5.0	40	**11**	20	03/02/08	03/02/08	Ja
Ethylbenzene	EPA 8260B	8C02011	5.0	20	ND	20	03/02/08	03/02/08	
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	8C02011	5.6	40	ND	20	03/02/08	03/02/08	
Hexachlorobutadiene	EPA 8260B	8C02011	7.6	20	ND	20	03/02/08	03/02/08	
2-Hexanone	EPA 8260B	8C02011	52	120	ND	20	03/02/08	03/02/08	
Iodomethane	EPA 8260B	8C02011	20	40	ND	20	03/02/08	03/02/08	
Isopropylbenzene	EPA 8260B	8C02011	5.0	20	ND	20	03/02/08	03/02/08	
p-Isopropyltoluene	EPA 8260B	8C02011	5.6	20	ND	20	03/02/08	03/02/08	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	8C02011	6.4	20	ND	20	03/02/08	03/02/08	
Methylene chloride	EPA 8260B	8C02011	19	20	ND	20	03/02/08	03/02/08	
4-Methyl-2-pentanone (MIBK)	EPA 8260B	8C02011	70	100	**140**	20	03/02/08	03/02/08	
n-Propylbenzene	EPA 8260B	8C02011	5.4	20	ND	20	03/02/08	03/02/08	
Styrene	EPA 8260B	8C02011	3.2	20	ND	20	03/02/08	03/02/08	
1,1,1,2-Tetrachloroethane	EPA 8260B	8C02011	5.4	20	ND	20	03/02/08	03/02/08	
1,1,2,2-Tetrachloroethane	EPA 8260B	8C02011	4.8	20	ND	20	03/02/08	03/02/08	
Tetrachloroethene	EPA 8260B	8C02011	6.4	20	ND	20	03/02/08	03/02/08	
Tetrahydrofuran (THF)	EPA 8260B	8C02011	70	200	**79**	20	03/02/08	03/02/08	Ja
Toluene	EPA 8260B	8C02011	7.2	20	**190**	20	03/02/08	03/02/08	
1,2,3-Trichlorobenzene	EPA 8260B	8C02011	6.0	20	ND	20	03/02/08	03/02/08	
1,2,4-Trichlorobenzene	EPA 8260B	8C02011	9.6	20	ND	20	03/02/08	03/02/08	
1,1,1-Trichloroethane	EPA 8260B	8C02011	6.0	20	ND	20	03/02/08	03/02/08	
1,1,2-Trichloroethane	EPA 8260B	8C02011	6.0	20	**46**	20	03/02/08	03/02/08	
Trichloroethene	EPA 8260B	8C02011	5.2	20	ND	20	03/02/08	03/02/08	
Trichlorofluoromethane	EPA 8260B	8C02011	6.8	40	ND	20	03/02/08	03/02/08	
1,2,3-Trichloropropane	EPA 8260B	8C02011	8.0	20	ND	20	03/02/08	03/02/08	
1,3,5-Trimethylbenzene	EPA 8260B	8C02011	5.2	20	ND	20	03/02/08	03/02/08	
1,2,4-Trimethylbenzene	EPA 8260B	8C02011	4.6	20	ND	20	03/02/08	03/02/08	
Vinyl acetate	EPA 8260B	8C02011	20	120	ND	20	03/02/08	03/02/08	
o-Xylene	EPA 8260B	8C02011	6.0	10	ND	20	03/02/08	03/02/08	
Xylenes, Total	EPA 8260B	8C02011	18	20	ND	20	03/02/08	03/02/08	
m,p-Xylenes	EPA 8260B	8C02011	12	20	ND	20	03/02/08	03/02/08	
Surrogate: Dibromofluoromethane (80-120%)					*90 %*				
Surrogate: Toluene-d8 (80-120%)					*94 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)					*82 %*				

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BOE-C6-0188320

Avocet Environmental Inc.
16 Technology Drive, Suite 154
Irvine, CA 92618
Attention: Michael Rendina

Project ID: Boeing C-6 Torrance (02/26/08)
1155.003
Report Number: IRB2567

Sampled: 02/26/08
Received: 02/26/08

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRB2567-06 (EB_AV20080226_01 - Water)									**P-HS**
Reporting Units: ug/l									
Acetone	EPA 8260B	8C06006	4.5	10	**7.5**	1	03/06/08	03/06/08	Ja
tert-Amyl Methyl Ether (TAME)	EPA 8260B	8C06006	0.33	2.0	ND	1	03/06/08	03/06/08	
Benzene	EPA 8260B	8C06006	0.28	0.50	ND	1	03/06/08	03/06/08	
Bromobenzene	EPA 8260B	8C06006	0.27	1.0	ND	1	03/06/08	03/06/08	
Bromochloromethane	EPA 8260B	8C06006	0.40	1.0	ND	1	03/06/08	03/06/08	
Bromodichloromethane	EPA 8260B	8C06006	0.30	1.0	**0.59**	1	03/06/08	03/06/08	Ja
Bromoform	EPA 8260B	8C06006	0.40	1.0	ND	1	03/06/08	03/06/08	
Bromomethane	EPA 8260B	8C06006	0.42	1.0	ND	1	03/06/08	03/06/08	
tert-Butanol (TBA)	EPA 8260B	8C06006	6.5	25	ND	1	03/06/08	03/06/08	
2-Butanone (MEK)	EPA 8260B	8C06006	4.7	5.0	ND	1	03/06/08	03/06/08	
tert-Butylbenzene	EPA 8260B	8C06006	0.22	1.0	ND	1	03/06/08	03/06/08	
n-Butylbenzene	EPA 8260B	8C06006	0.37	1.0	ND	1	03/06/08	03/06/08	
sec-Butylbenzene	EPA 8260B	8C06006	0.25	1.0	ND	1	03/06/08	03/06/08	
Carbon Disulfide	EPA 8260B	8C06006	0.48	1.0	ND	1	03/06/08	03/06/08	
Carbon tetrachloride	EPA 8260B	8C06006	0.28	0.50	ND	1	03/06/08	03/06/08	
Chlorobenzene	EPA 8260B	8C06006	0.36	1.0	ND	1	03/06/08	03/06/08	
Chloroethane	EPA 8260B	8C06006	0.40	2.0	ND	1	03/06/08	03/06/08	
Chloroform	EPA 8260B	8C06006	0.33	1.0	**2.6**	1	03/06/08	03/06/08	
Chloromethane	EPA 8260B	8C06006	0.40	2.0	ND	1	03/06/08	03/06/08	
2-Chlorotoluene	EPA 8260B	8C06006	0.28	1.0	ND	1	03/06/08	03/06/08	
4-Chlorotoluene	EPA 8260B	8C06006	0.29	1.0	ND	1	03/06/08	03/06/08	
1,2-Dibromo-3-chloropropane	EPA 8260B	8C06006	0.97	2.0	ND	1	03/06/08	03/06/08	
Dibromochloromethane	EPA 8260B	8C06006	0.40	1.0	ND	1	03/06/08	03/06/08	
1,2-Dibromoethane (EDB)	EPA 8260B	8C06006	0.40	1.0	ND	1	03/06/08	03/06/08	
1,3-Dichlorobenzene	EPA 8260B	8C06006	0.35	1.0	ND	1	03/06/08	03/06/08	
1,4-Dichlorobenzene	EPA 8260B	8C06006	0.37	1.0	ND	1	03/06/08	03/06/08	
1,2-Dichlorobenzene	EPA 8260B	8C06006	0.32	1.0	ND	1	03/06/08	03/06/08	
Dichlorodifluoromethane	EPA 8260B	8C06006	0.26	1.0	ND	1	03/06/08	03/06/08	
1,1-Dichloroethane	EPA 8260B	8C06006	0.40	1.0	ND	1	03/06/08	03/06/08	
1,2-Dichloroethane	EPA 8260B	8C06006	0.28	0.50	ND	1	03/06/08	03/06/08	
cis-1,2-Dichloroethene	EPA 8260B	8C06006	0.32	1.0	ND	1	03/06/08	03/06/08	
1,1-Dichloroethene	EPA 8260B	8C06006	0.42	1.0	ND	1	03/06/08	03/06/08	
trans-1,2-Dichloroethene	EPA 8260B	8C06006	0.30	1.0	ND	1	03/06/08	03/06/08	
2,2-Dichloropropane	EPA 8260B	8C06006	0.34	1.0	ND	1	03/06/08	03/06/08	
1,2-Dichloropropane	EPA 8260B	8C06006	0.35	1.0	ND	1	03/06/08	03/06/08	
cis-1,3-Dichloropropene	EPA 8260B	8C06006	0.22	0.50	ND	1	03/06/08	03/06/08	
1,1-Dichloropropene	EPA 8260B	8C06006	0.28	1.0	ND	1	03/06/08	03/06/08	
trans-1,3-Dichloropropene	EPA 8260B	8C06006	0.32	0.50	ND	1	03/06/08	03/06/08	
Di-isopropyl Ether (DIPE)	EPA 8260B	8C06006	0.25	2.0	ND	1	03/06/08	03/06/08	
Ethylbenzene	EPA 8260B	8C06006	0.25	1.0	ND	1	03/06/08	03/06/08	
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	8C06006	0.28	2.0	ND	1	03/06/08	03/06/08	

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THE LEADER IN ENVIRONMENTAL TESTING
17461 Derian Avenue. Suite 100, Irvine, CA 92614 (949) 261-1022 Fax:(949) 260-3297

Avocet Environmental Inc.
16 Technology Drive, Suite 154
Irvine, CA 92618
Attention: Michael Rendina

Project ID: Boeing C-6 Torrance (02/26/08)
1155.003
Report Number: IRB2567

Sampled: 02/26/08
Received: 02/26/08

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRB2567-06 (EB_AV20080226_01 - Water) - cont.									**P-HS**
Reporting Units: ug/l									
Hexachlorobutadiene	EPA 8260B	8C06006	0.38	1.0	ND	1	03/06/08	03/06/08	
2-Hexanone	EPA 8260B	8C06006	2.6	6.0	ND	1	03/06/08	03/06/08	
Iodomethane	EPA 8260B	8C06006	1.0	2.0	ND	1	03/06/08	03/06/08	
Isopropylbenzene	EPA 8260B	8C06006	0.25	1.0	ND	1	03/06/08	03/06/08	
p-Isopropyltoluene	EPA 8260B	8C06006	0.28	1.0	ND	1	03/06/08	03/06/08	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	8C06006	0.32	1.0	ND	1	03/06/08	03/06/08	
Methylene chloride	EPA 8260B	8C06006	0.95	1.0	ND	1	03/06/08	03/06/08	
4-Methyl-2-pentanone (MIBK)	EPA 8260B	8C06006	3.5	5.0	ND	1	03/06/08	03/06/08	
n-Propylbenzene	EPA 8260B	8C06006	0.27	1.0	ND	1	03/06/08	03/06/08	
Styrene	EPA 8260B	8C06006	0.20	1.0	ND	1	03/06/08	03/06/08	
1,1,1,2-Tetrachloroethane	EPA 8260B	8C06006	0.27	1.0	ND	1	03/06/08	03/06/08	
1,1,2,2-Tetrachloroethane	EPA 8260B	8C06006	0.30	1.0	ND	1	03/06/08	03/06/08	
Tetrachloroethene	EPA 8260B	8C06006	0.32	1.0	ND	1	03/06/08	03/06/08	
Tetrahydrofuran (THF)	EPA 8260B	8C06006	3.5	10	ND	1	03/06/08	03/06/08	
Toluene	EPA 8260B	8C06006	0.36	1.0	ND	1	03/06/08	03/06/08	
1,2,3-Trichlorobenzene	EPA 8260B	8C06006	0.30	1.0	ND	1	03/06/08	03/06/08	
1,2,4-Trichlorobenzene	EPA 8260B	8C06006	0.48	1.0	ND	1	03/06/08	03/06/08	
1,1,1-Trichloroethane	EPA 8260B	8C06006	0.30	1.0	ND	1	03/06/08	03/06/08	
1,1,2-Trichloroethane	EPA 8260B	8C06006	0.30	1.0	ND	1	03/06/08	03/06/08	
Trichloroethene	EPA 8260B	8C06006	0.26	1.0	ND	1	03/06/08	03/06/08	
Trichlorofluoromethane	EPA 8260B	8C06006	0.34	2.0	ND	1	03/06/08	03/06/08	
1,2,3-Trichloropropane	EPA 8260B	8C06006	0.40	1.0	ND	1	03/06/08	03/06/08	
1,3,5-Trimethylbenzene	EPA 8260B	8C06006	0.26	1.0	ND	1	03/06/08	03/06/08	
1,2,4-Trimethylbenzene	EPA 8260B	8C06006	0.23	1.0	ND	1	03/06/08	03/06/08	
Vinyl acetate	EPA 8260B	8C06006	1.0	6.0	ND	1	03/06/08	03/06/08	
Vinyl chloride	EPA 8260B	8C06006	0.40	0.50	ND	1	03/06/08	03/06/08	
o-Xylene	EPA 8260B	8C06006	0.30	0.50	ND	1	03/06/08	03/06/08	
Xylenes, Total	EPA 8260B	8C06006	0.90	1.0	ND	1	03/06/08	03/06/08	
m,p-Xylenes	EPA 8260B	8C06006	0.60	1.0	ND	1	03/06/08	03/06/08	
Surrogate: Dibromofluoromethane (80-120%)					*94 %*				
Surrogate: Toluene-d8 (80-120%)					*97 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)					*87 %*				

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BOE-C6-0188321

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Avocet Environmental Inc.
16 Technology Drive, Suite 154
Irvine, CA 92618
Attention: Michael Rendina

Project ID: Boeing C-6 Torrance (02/26/08)
1155.003
Report Number: IRB2567

Sampled: 02/26/08
Received: 02/26/08

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRB2567-07 (EWB002_WG20080226_01 - Water)									
Reporting Units: ug/l									
Vinyl chloride	EPA 8260B	8C02011	30	50	**9900**	100	03/02/08	03/02/08	
Surrogate: Dibromofluoromethane (80-120%)					*95 %*				
Surrogate: Toluene-d8 (80-120%)					*95 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)					*83 %*				
Sample ID: IRB2567-07RE1 (EWB002_WG20080226_01 - Water)									
Reporting Units: ug/l									
Acetone	EPA 8260B	8C02011	90	200	**190**	20	03/02/08	03/02/08	Ja
tert-Amyl Methyl Ether (TAME)	EPA 8260B	8C02011	6.6	40	ND	20	03/02/08	03/02/08	
Benzene	EPA 8260B	8C02011	5.6	10	**33**	20	03/02/08	03/02/08	
Bromobenzene	EPA 8260B	8C02011	5.4	20	ND	20	03/02/08	03/02/08	
Bromochloromethane	EPA 8260B	8C02011	6.4	20	ND	20	03/02/08	03/02/08	
Bromodichloromethane	EPA 8260B	8C02011	6.0	20	ND	20	03/02/08	03/02/08	
Bromoform	EPA 8260B	8C02011	8.0	20	ND	20	03/02/08	03/02/08	
Bromomethane	EPA 8260B	8C02011	8.4	20	ND	20	03/02/08	03/02/08	
tert-Butanol (TBA)	EPA 8260B	8C02011	98	500	ND	20	03/02/08	03/02/08	
2-Butanone (MEK)	EPA 8260B	8C02011	94	100	**140**	20	03/02/08	03/02/08	
tert-Butylbenzene	EPA 8260B	8C02011	4.4	20	ND	20	03/02/08	03/02/08	
n-Butylbenzene	EPA 8260B	8C02011	7.4	20	ND	20	03/02/08	03/02/08	
sec-Butylbenzene	EPA 8260B	8C02011	5.0	20	ND	20	03/02/08	03/02/08	
Carbon Disulfide	EPA 8260B	8C02011	9.6	20	ND	20	03/02/08	03/02/08	
Carbon tetrachloride	EPA 8260B	8C02011	5.6	10	ND	20	03/02/08	03/02/08	
Chlorobenzene	EPA 8260B	8C02011	7.2	20	ND	20	03/02/08	03/02/08	
Chloroethane	EPA 8260B	8C02011	8.0	40	ND	20	03/02/08	03/02/08	
Chloroform	EPA 8260B	8C02011	6.6	20	**7.4**	20	03/02/08	03/02/08	Ja
Chloromethane	EPA 8260B	8C02011	8.0	40	ND	20	03/02/08	03/02/08	
2-Chlorotoluene	EPA 8260B	8C02011	5.6	20	ND	20	03/02/08	03/02/08	
4-Chlorotoluene	EPA 8260B	8C02011	5.8	20	ND	20	03/02/08	03/02/08	
1,2-Dibromo-3-chloropropane	EPA 8260B	8C02011	19	40	ND	20	03/02/08	03/02/08	
Dibromochloromethane	EPA 8260B	8C02011	5.6	20	ND	20	03/02/08	03/02/08	
1,2-Dibromoethane (EDB)	EPA 8260B	8C02011	8.0	20	ND	20	03/02/08	03/02/08	
1,3-Dichlorobenzene	EPA 8260B	8C02011	7.0	20	ND	20	03/02/08	03/02/08	
1,4-Dichlorobenzene	EPA 8260B	8C02011	7.4	20	ND	20	03/02/08	03/02/08	
1,2-Dichlorobenzene	EPA 8260B	8C02011	6.4	20	ND	20	03/02/08	03/02/08	
Dichlorodifluoromethane	EPA 8260B	8C02011	5.2	20	ND	20	03/02/08	03/02/08	
1,1-Dichloroethane	EPA 8260B	8C02011	5.4	20	**300**	20	03/02/08	03/02/08	
1,2-Dichloroethane	EPA 8260B	8C02011	5.6	10	**53**	20	03/02/08	03/02/08	
cis-1,2-Dichloroethene	EPA 8260B	8C02011	6.4	20	**160**	20	03/02/08	03/02/08	
1,1-Dichloroethene	EPA 8260B	8C02011	8.4	20	**170**	20	03/02/08	03/02/08	
trans-1,2-Dichloroethene	EPA 8260B	8C02011	5.4	20	**200**	20	03/02/08	03/02/08	
2,2-Dichloropropane	EPA 8260B	8C02011	6.8	20	ND	20	03/02/08	03/02/08	

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Avocet Environmental Inc.
16 Technology Drive, Suite 154
Irvine, CA 92618
Attention: Michael Rendina

Project ID: Boeing C-6 Torrance (02/26/08)
1155.003
Report Number: IRB2567

Sampled: 02/26/08
Received: 02/26/08

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRB2567-07RE1 (EWB002_WG20080226_01 - Water) - cont.									
Reporting Units: ug/l									
1,2-Dichloropropane	EPA 8260B	8C02011	7.0	20	ND	20	03/02/08	03/02/08	
cis-1,3-Dichloropropene	EPA 8260B	8C02011	4.4	10	ND	20	03/02/08	03/02/08	
1,1-Dichloropropene	EPA 8260B	8C02011	5.6	20	ND	20	03/02/08	03/02/08	
trans-1,3-Dichloropropene	EPA 8260B	8C02011	6.4	10	ND	20	03/02/08	03/02/08	
Di-isopropyl Ether (DIPE)	EPA 8260B	8C02011	5.0	40	**9.0**	20	03/02/08	03/02/08	Ja
Ethylbenzene	EPA 8260B	8C02011	5.0	20	ND	20	03/02/08	03/02/08	
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	8C02011	5.6	40	ND	20	03/02/08	03/02/08	
Hexachlorobutadiene	EPA 8260B	8C02011	7.6	20	ND	20	03/02/08	03/02/08	
2-Hexanone	EPA 8260B	8C02011	52	120	ND	20	03/02/08	03/02/08	
Iodomethane	EPA 8260B	8C02011	20	40	ND	20	03/02/08	03/02/08	
Isopropylbenzene	EPA 8260B	8C02011	5.0	20	ND	20	03/02/08	03/02/08	
p-Isopropyltoluene	EPA 8260B	8C02011	5.6	20	ND	20	03/02/08	03/02/08	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	8C02011	6.4	20	ND	20	03/02/08	03/02/08	
Methylene chloride	EPA 8260B	8C02011	19	20	ND	20	03/02/08	03/02/08	
4-Methyl-2-pentanone (MIBK)	EPA 8260B	8C02011	70	100	**330**	20	03/02/08	03/02/08	
n-Propylbenzene	EPA 8260B	8C02011	5.4	20	ND	20	03/02/08	03/02/08	
Styrene	EPA 8260B	8C02011	3.2	20	ND	20	03/02/08	03/02/08	
1,1,1,2-Tetrachloroethane	EPA 8260B	8C02011	5.4	20	ND	20	03/02/08	03/02/08	
1,1,2,2-Tetrachloroethane	EPA 8260B	8C02011	4.8	20	ND	20	03/02/08	03/02/08	
Tetrachloroethene	EPA 8260B	8C02011	6.4	20	ND	20	03/02/08	03/02/08	
Tetrahydrofuran (THF)	EPA 8260B	8C02011	70	200	ND	20	03/02/08	03/02/08	
Toluene	EPA 8260B	8C02011	7.2	20	**1200**	20	03/02/08	03/02/08	
1,2,3-Trichlorobenzene	EPA 8260B	8C02011	6.0	20	ND	20	03/02/08	03/02/08	
1,2,4-Trichlorobenzene	EPA 8260B	8C02011	9.6	20	ND	20	03/02/08	03/02/08	
1,1,1-Trichloroethane	EPA 8260B	8C02011	6.0	20	ND	20	03/02/08	03/02/08	
1,1,2-Trichloroethane	EPA 8260B	8C02011	6.0	20	**33**	20	03/02/08	03/02/08	
Trichloroethene	EPA 8260B	8C02011	5.2	20	ND	20	03/02/08	03/02/08	
Trichlorofluoromethane	EPA 8260B	8C02011	6.8	40	ND	20	03/02/08	03/02/08	
1,2,3-Trichloropropane	EPA 8260B	8C02011	8.0	20	ND	20	03/02/08	03/02/08	
1,3,5-Trimethylbenzene	EPA 8260B	8C02011	5.2	20	ND	20	03/02/08	03/02/08	
1,2,4-Trimethylbenzene	EPA 8260B	8C02011	4.6	20	ND	20	03/02/08	03/02/08	
Vinyl acetate	EPA 8260B	8C02011	20	120	ND	20	03/02/08	03/02/08	
o-Xylene	EPA 8260B	8C02011	6.0	10	ND	20	03/02/08	03/02/08	
Xylenes, Total	EPA 8260B	8C02011	18	20	ND	20	03/02/08	03/02/08	
m,p-Xylenes	EPA 8260B	8C02011	12	20	ND	20	03/02/08	03/02/08	
Surrogate: Dibromofluoromethane (80-120%)					*94 %*				
Surrogate: Toluene-d8 (80-120%)					*96 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)					*81 %*				

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BOE-C6-0188322

Avocet Environmental Inc.
16 Technology Drive, Suite 154
Irvine, CA 92618
Attention: Michael Rendina

Project ID: Boeing C-6 Torrance (02/26/08)
1155.003
Report Number: IRB2567

Sampled: 02/26/08
Received: 02/26/08

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Sample ID: IRB2567-08 (TB_AV20080226_01 - Water)

Reporting Units: ug/l

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Acetone	EPA 8260B	8C02011	4.5	10	ND	1	03/02/08	03/02/08	
tert-Amyl Methyl Ether (TAME)	EPA 8260B	8C02011	0.33	2.0	ND	1	03/02/08	03/02/08	
Benzene	EPA 8260B	8C02011	0.28	0.50	ND	1	03/02/08	03/02/08	
Bromobenzene	EPA 8260B	8C02011	0.27	1.0	ND	1	03/02/08	03/02/08	
Bromochloromethane	EPA 8260B	8C02011	0.32	1.0	ND	1	03/02/08	03/02/08	
Bromodichloromethane	EPA 8260B	8C02011	0.30	1.0	ND	1	03/02/08	03/02/08	
Bromoform	EPA 8260B	8C02011	0.40	1.0	ND	1	03/02/08	03/02/08	
Bromomethane	EPA 8260B	8C02011	0.42	1.0	ND	1	03/02/08	03/02/08	
tert-Butanol (TBA)	EPA 8260B	8C02011	4.9	25	ND	1	03/02/08	03/02/08	
2-Butanone (MEK)	EPA 8260B	8C02011	4.7	5.0	ND	1	03/02/08	03/02/08	
tert-Butylbenzene	EPA 8260B	8C02011	0.22	1.0	ND	1	03/02/08	03/02/08	
n-Butylbenzene	EPA 8260B	8C02011	0.37	1.0	ND	1	03/02/08	03/02/08	
sec-Butylbenzene	EPA 8260B	8C02011	0.25	1.0	ND	1	03/02/08	03/02/08	
Carbon Disulfide	EPA 8260B	8C02011	0.48	1.0	ND	1	03/02/08	03/02/08	
Carbon tetrachloride	EPA 8260B	8C02011	0.28	0.50	ND	1	03/02/08	03/02/08	
Chlorobenzene	EPA 8260B	8C02011	0.36	1.0	ND	1	03/02/08	03/02/08	
Chloroethane	EPA 8260B	8C02011	0.40	2.0	ND	1	03/02/08	03/02/08	
Chloroform	EPA 8260B	8C02011	0.33	1.0	ND	1	03/02/08	03/02/08	
Chloromethane	EPA 8260B	8C02011	0.40	2.0	ND	1	03/02/08	03/02/08	
2-Chlorotoluene	EPA 8260B	8C02011	0.28	1.0	ND	1	03/02/08	03/02/08	
4-Chlorotoluene	EPA 8260B	8C02011	0.29	1.0	ND	1	03/02/08	03/02/08	
1,2-Dibromo-3-chloropropane	EPA 8260B	8C02011	0.97	2.0	ND	1	03/02/08	03/02/08	
Dibromochloromethane	EPA 8260B	8C02011	0.28	1.0	ND	1	03/02/08	03/02/08	
1,2-Dibromoethane (EDB)	EPA 8260B	8C02011	0.40	1.0	ND	1	03/02/08	03/02/08	
1,3-Dichlorobenzene	EPA 8260B	8C02011	0.35	1.0	ND	1	03/02/08	03/02/08	
1,4-Dichlorobenzene	EPA 8260B	8C02011	0.37	1.0	ND	1	03/02/08	03/02/08	
1,2-Dichlorobenzene	EPA 8260B	8C02011	0.32	1.0	ND	1	03/02/08	03/02/08	
Dichlorodifluoromethane	EPA 8260B	8C02011	0.26	1.0	ND	1	03/02/08	03/02/08	
1,1-Dichloroethane	EPA 8260B	8C02011	0.27	1.0	ND	1	03/02/08	03/02/08	
1,2-Dichloroethane	EPA 8260B	8C02011	0.28	0.50	ND	1	03/02/08	03/02/08	
cis-1,2-Dichloroethene	EPA 8260B	8C02011	0.32	1.0	ND	1	03/02/08	03/02/08	
1,1-Dichloroethene	EPA 8260B	8C02011	0.42	1.0	ND	1	03/02/08	03/02/08	
trans-1,2-Dichloroethene	EPA 8260B	8C02011	0.27	1.0	ND	1	03/02/08	03/02/08	
2,2-Dichloropropane	EPA 8260B	8C02011	0.34	1.0	ND	1	03/02/08	03/02/08	
1,2-Dichloropropane	EPA 8260B	8C02011	0.35	1.0	ND	1	03/02/08	03/02/08	
cis-1,3-Dichloropropene	EPA 8260B	8C02011	0.22	0.50	ND	1	03/02/08	03/02/08	
1,1-Dichloropropene	EPA 8260B	8C02011	0.28	1.0	ND	1	03/02/08	03/02/08	
trans-1,3-Dichloropropene	EPA 8260B	8C02011	0.32	0.50	ND	1	03/02/08	03/02/08	
Di-isopropyl Ether (DIPE)	EPA 8260B	8C02011	0.25	2.0	ND	1	03/02/08	03/02/08	
Ethylbenzene	EPA 8260B	8C02011	0.25	1.0	ND	1	03/02/08	03/02/08	
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	8C02011	0.28	2.0	ND	1	03/02/08	03/02/08	

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Avocet Environmental Inc.
16 Technology Drive, Suite 154
Irvine, CA 92618
Attention: Michael Rendina

Project ID: Boeing C-6 Torrance (02/26/08)
1155.003
Report Number: IRB2567

Sampled: 02/26/08
Received: 02/26/08

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Sample ID: IRB2567-08 (TB_AV20080226_01 - Water) - cont.

Reporting Units: ug/l

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Hexachlorobutadiene	EPA 8260B	8C02011	0.38	1.0	ND	1	03/02/08	03/02/08	
2-Hexanone	EPA 8260B	8C02011	2.6	6.0	ND	1	03/02/08	03/02/08	
Iodomethane	EPA 8260B	8C02011	1.0	2.0	ND	1	03/02/08	03/02/08	
Isopropylbenzene	EPA 8260B	8C02011	0.25	1.0	ND	1	03/02/08	03/02/08	
p-Isopropyltoluene	EPA 8260B	8C02011	0.28	1.0	ND	1	03/02/08	03/02/08	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	8C02011	0.32	1.0	ND	1	03/02/08	03/02/08	
Methylene chloride	EPA 8260B	8C02011	0.95	1.0	ND	1	03/02/08	03/02/08	
4-Methyl-2-pentanone (MIBK)	EPA 8260B	8C02011	3.5	5.0	ND	1	03/02/08	03/02/08	
n-Propylbenzene	EPA 8260B	8C02011	0.27	1.0	ND	1	03/02/08	03/02/08	
Styrene	EPA 8260B	8C02011	0.16	1.0	ND	1	03/02/08	03/02/08	
1,1,1,2-Tetrachloroethane	EPA 8260B	8C02011	0.27	1.0	ND	1	03/02/08	03/02/08	
1,1,2,2-Tetrachloroethane	EPA 8260B	8C02011	0.24	1.0	ND	1	03/02/08	03/02/08	
Tetrachloroethene	EPA 8260B	8C02011	0.32	1.0	ND	1	03/02/08	03/02/08	
Tetrahydrofuran (THF)	EPA 8260B	8C02011	3.5	10	ND	1	03/02/08	03/02/08	
Toluene	EPA 8260B	8C02011	0.36	1.0	ND	1	03/02/08	03/02/08	
1,2,3-Trichlorobenzene	EPA 8260B	8C02011	0.30	1.0	ND	1	03/02/08	03/02/08	
1,2,4-Trichlorobenzene	EPA 8260B	8C02011	0.48	1.0	ND	1	03/02/08	03/02/08	
1,1,1-Trichloroethane	EPA 8260B	8C02011	0.30	1.0	ND	1	03/02/08	03/02/08	
1,1,2-Trichloroethane	EPA 8260B	8C02011	0.30	1.0	ND	1	03/02/08	03/02/08	
Trichloroethene	EPA 8260B	8C02011	0.26	1.0	ND	1	03/02/08	03/02/08	
Trichlorofluoromethane	EPA 8260B	8C02011	0.34	2.0	ND	1	03/02/08	03/02/08	
1,2,3-Trichloropropane	EPA 8260B	8C02011	0.40	1.0	ND	1	03/02/08	03/02/08	
1,3,5-Trimethylbenzene	EPA 8260B	8C02011	0.26	1.0	ND	1	03/02/08	03/02/08	
1,2,4-Trimethylbenzene	EPA 8260B	8C02011	0.23	1.0	ND	1	03/02/08	03/02/08	
Vinyl acetate	EPA 8260B	8C02011	1.0	6.0	ND	1	03/02/08	03/02/08	
Vinyl chloride	EPA 8260B	8C02011	0.30	0.50	ND	1	03/02/08	03/02/08	
o-Xylene	EPA 8260B	8C02011	0.30	0.50	ND	1	03/02/08	03/02/08	
Xylenes, Total	EPA 8260B	8C02011	0.90	1.0	ND	1	03/02/08	03/02/08	
m,p-Xylenes	EPA 8260B	8C02011	0.60	1.0	ND	1	03/02/08	03/02/08	
Surrogate: Dibromofluoromethane (80-120%)					*82 %*				
Surrogate: Toluene-d8 (80-120%)					*92 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)					*82 %*				

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BOE-C6-0188323

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Avocet Environmental Inc.
16 Technology Drive, Suite 154
Irvine, CA 92618
Attention: Michael Rendina

Project ID: Boeing C-6 Torrance (02/26/08)
1155.003
Report Number: IRB2567

Sampled: 02/26/08
Received: 02/26/08

INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRB2567-01 (AW0073C_WG20080226_01 - Water)									
Reporting Units: mg/l									
Alkalinity as CaCO3	EPA 310.1	8B27065	2.0	2.0	**230**	1	02/27/08	02/27/08	
Chloride	EPA 300.0	8B26038	5.0	10	**140**	20	02/26/08	02/27/08	M-3
Nitrate-NO3	EPA 300.0	8B26038	0.25	0.50	**0.39**	1	02/26/08	02/26/08	Ja
Nitrite-NO2	EPA 300.0	8B26038	0.30	0.50	ND	1	02/26/08	02/26/08	M1
Sulfate	EPA 300.0	8B26038	0.20	0.50	**9.5**	1	02/26/08	02/26/08	
Sample ID: IRB2567-02 (AW0075UB_WG20080226_01 - Water)									
Reporting Units: mg/l									
Alkalinity as CaCO3	EPA 310.1	8B27065	2.0	2.0	**510**	1	02/27/08	02/27/08	
Chloride	EPA 300.0	8B26038	25	50	**530**	100	02/26/08	02/27/08	
Nitrate-NO3	EPA 300.0	8B26038	0.50	1.0	ND	2	02/26/08	02/26/08	RL1
Nitrite-NO2	EPA 300.0	8B26038	0.60	1.0	ND	2	02/26/08	02/26/08	RL1
Sulfate	EPA 300.0	8B26038	0.40	1.0	**2.4**	2	02/26/08	02/26/08	
Sample ID: IRB2567-03 (AW0076UB_WG20080226_01 - Water)									
Reporting Units: mg/l									
Alkalinity as CaCO3	EPA 310.1	8B27065	2.0	2.0	**700**	1	02/27/08	02/27/08	
Chloride	EPA 300.0	8B26038	25	50	**650**	100	02/26/08	02/26/08	
Nitrate-NO3	EPA 300.0	8B26038	1.2	2.5	ND	5	02/26/08	02/26/08	RL1
Nitrite-NO2	EPA 300.0	8B26038	1.5	2.5	ND	5	02/26/08	02/26/08	RL1
Sulfate	EPA 300.0	8B26038	1.0	2.5	ND	5	02/26/08	02/26/08	RL1
Sample ID: IRB2567-04 (AW0077UB_WG20080226_01 - Water)									
Reporting Units: mg/l									
Alkalinity as CaCO3	EPA 310.1	8B27065	2.0	2.0	**610**	1	02/27/08	02/27/08	
Chloride	EPA 300.0	8B26038	25	50	**480**	100	02/26/08	02/26/08	
Nitrate-NO3	EPA 300.0	8B26038	0.50	1.0	ND	2	02/26/08	02/26/08	RL1
Nitrite-NO2	EPA 300.0	8B26038	0.60	1.0	ND	2	02/26/08	02/26/08	RL1
Sulfate	EPA 300.0	8B26038	0.40	1.0	**0.80**	2	02/26/08	02/26/08	RL1, Ja
Sample ID: IRB2567-07 (EWB002_WG20080226_01 - Water)									
Reporting Units: mg/l									
Alkalinity as CaCO3	EPA 310.1	8B27065	2.0	2.0	**540**	1	02/27/08	02/27/08	
Chloride	EPA 300.0	8B26038	25	50	**500**	100	02/26/08	02/26/08	
Nitrate-NO3	EPA 300.0	8B26038	0.50	1.0	ND	2	02/26/08	02/26/08	RL1
Nitrite-NO2	EPA 300.0	8B26038	0.60	1.0	ND	2	02/26/08	02/26/08	RL1
Sulfate	EPA 300.0	8B26038	0.40	1.0	ND	2	02/26/08	02/26/08	RL1

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Avocet Environmental Inc.
16 Technology Drive, Suite 154
Irvine, CA 92618
Attention: Michael Rendina

Project ID: Boeing C-6 Torrance (02/26/08)
1155.003
Report Number: IRB2567

Sampled: 02/26/08
Received: 02/26/08

TOTAL ORGANIC CARBON (EPA 9060A MOD.)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRB2567-01 (AW0073C_WG20080226_01 - Water)									
Reporting Units: mg/l									
Total Organic Carbon	EPA 9060A MOD.	8C10106	0.50	1.0	**11**	1	03/10/08	03/10/08	
Sample ID: IRB2567-02 (AW0075UB_WG20080226_01 - Water)									
Reporting Units: mg/l									
Total Organic Carbon	EPA 9060A MOD.	8C10106	5.0	10	**150**	10	03/10/08	03/10/08	
Sample ID: IRB2567-03 (AW0076UB_WG20080226_01 - Water)									
Reporting Units: mg/l									
Total Organic Carbon	EPA 9060A MOD.	8C10106	5.0	10	**380**	10	03/10/08	03/10/08	
Sample ID: IRB2567-04 (AW0077UB_WG20080226_01 - Water)									
Reporting Units: mg/l									
Total Organic Carbon	EPA 9060A MOD.	8C10106	5.0	10	**71**	10	03/10/08	03/10/08	
Sample ID: IRB2567-07 (EWB002_WG20080226_01 - Water)									
Reporting Units: mg/l									
Total Organic Carbon	EPA 9060A MOD.	8C10106	5.0	10	**130**	10	03/10/08	03/10/08	

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BOE-C6-0188324

Avocet Environmental Inc.
16 Technology Drive, Suite 154
Irvine, CA 92618
Attention: Michael Rendina

Project ID: Boeing C-6 Torrance (02/26/08)
1155.003
Report Number: IRB2567

Sampled: 02/26/08
Received: 02/26/08

Volatile Fatty Acids

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRB2567-01 (AW0073C_WG20080226_01 - Water)									
Reporting Units: MG/L									
ACETIC ACID	AM23G	M080304004	0.04	0.07	**9.7**	1	03/04/08	03/04/08	M
BUTYRIC ACID	AM23G	M080304004	0.06	0.07	**0.09**	1	03/04/08	03/04/08	
HEXANOIC ACID	AM23G	M080304004	0.08	0.1	**0.1**	1	03/04/08	03/04/08	U
PENTANOIC ACID	AM23G	M080304004	0.07	0.07	**0.07**	1	03/04/08	03/04/08	U
PYRUVIC ACID	AM23G	M080304004	0.07	0.07	**0.15**	1	03/04/08	03/04/08	
I-HEXANOIC ACID	AM23G	M080304004	0.08	0.1	**0.1**	1	03/04/08	03/04/08	U
PROPIONIC ACID	AM23G	M080304004	0.05	0.07	**0.61**	1	03/04/08	03/04/08	
I-PENTANOIC ACID	AM23G	M080304004	0.07	0.07	**0.19**	1	03/04/08	03/04/08	
LACTIC ACID AND HIBA	AM23G	M080304004	0.07	0.1	**0.1**	1	03/04/08	03/04/08	UM
Sample ID: IRB2567-02 (AW0075UB_WG20080226_01 - Water)									
Reporting Units: MG/L									
ACETIC ACID	AM23G	M080306014	4.1	7	**160**	100	03/05/08	03/05/08	
BUTYRIC ACID	AM23G	M080306013	0.59	0.7	**2.5**	10	03/05/08	03/05/08	
HEXANOIC ACID	AM23G	M080304004	0.08	0.1	**0.1**	1	03/04/08	03/04/08	U
LACTIC ACID AND HIBA	AM23G	M080306014	6.7	10	**11**	100	03/05/08	03/05/08	
PENTANOIC ACID	AM23G	M080304004	0.07	0.07	**0.16**	1	03/04/08	03/04/08	
PROPIONIC ACID	AM23G	M080306013	0.52	0.7	**23**	10	03/05/08	03/05/08	
PYRUVIC ACID	AM23G	M080304004	0.07	0.07	**1.1**	1	03/04/08	03/04/08	
I-HEXANOIC ACID	AM23G	M080304004	0.08	0.1	**0.1**	1	03/04/08	03/04/08	U
I-PENTANOIC ACID	AM23G	M080304004	0.07	0.07	**1.4**	1	03/04/08	03/04/08	
Sample ID: IRB2567-03 (AW0076UB_WG20080226_01 - Water)									
Reporting Units: MG/L									
ACETIC ACID	AM23G	M080306014	4.1	7	**270**	100	03/05/08	03/05/08	
HEXANOIC ACID	AM23G	M080304004	0.08	0.1	**0.13**	1	03/04/08	03/04/08	
I-PENTANOIC ACID	AM23G	M080306013	0.7	0.7	**3.2**	10	03/05/08	03/05/08	
LACTIC ACID AND HIBA	AM23G	M080306014	6.7	10	**8.4**	100	03/05/08	03/05/08	J
PENTANOIC ACID	AM23G	M080304004	0.07	0.07	**1.5**	1	03/04/08	03/04/08	
PROPIONIC ACID	AM23G	M080306014	5.2	7	**52**	100	03/05/08	03/05/08	
PYRUVIC ACID	AM23G	M080306013	0.67	0.7	**3.8**	10	03/05/08	03/05/08	
BUTYRIC ACID	AM23G	M080306014	5.9	7	**25**	100	03/05/08	03/05/08	
I-HEXANOIC ACID	AM23G	M080304004	0.08	0.1	**0.1**	1	03/04/08	03/04/08	U

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Avocet Environmental Inc.
16 Technology Drive, Suite 154
Irvine, CA 92618
Attention: Michael Rendina

Project ID: Boeing C-6 Torrance (02/26/08)
1155.003
Report Number: IRB2567

Sampled: 02/26/08
Received: 02/26/08

Volatile Fatty Acids

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRB2567-04 (AW0077UB_WG20080226_01 - Water)									
Reporting Units: MG/L									
ACETIC ACID	AM23G	M080306013	0.41	0.7	**82**	10	03/05/08	03/05/08	
BUTYRIC ACID	AM23G	M080304004	0.06	0.07	**1.5**	1	03/04/08	03/05/08	
HEXANOIC ACID	AM23G	M080304004	0.08	0.1	**0.1**	1	03/04/08	03/05/08	U
LACTIC ACID AND HIBA	AM23G	M080306013	0.67	1	**1**	10	03/05/08	03/05/08	U
PENTANOIC ACID	AM23G	M080304004	0.07	0.07	**0.28**	1	03/04/08	03/05/08	
PYRUVIC ACID	AM23G	M080304004	0.07	0.07	**0.32**	1	03/04/08	03/05/08	
I-HEXANOIC ACID	AM23G	M080304004	0.08	0.1	**0.1**	1	03/04/08	03/05/08	U
PROPIONIC ACID	AM23G	M080304004	0.05	0.07	**2**	1	03/04/08	03/05/08	
I-PENTANOIC ACID	AM23G	M080304004	0.07	0.07	**0.38**	1	03/04/08	03/05/08	
Sample ID: IRB2567-07 (EWB002_WG20080226_01 - Water)									
Reporting Units: MG/L									
ACETIC ACID	AM23G	M080306014	4.1	7	**120**	100	03/05/08	03/06/08	
BUTYRIC ACID	AM23G	M080306013	0.59	0.7	**14**	10	03/05/08	03/05/08	
HEXANOIC ACID	AM23G	M080304004	0.08	0.1	**0.47**	1	03/04/08	03/04/08	
LACTIC ACID AND HIBA	AM23G	M080306014	6.7	10	**12**	100	03/05/08	03/06/08	
PENTANOIC ACID	AM23G	M080304004	0.07	0.07	**1.8**	1	03/04/08	03/04/08	
PROPIONIC ACID	AM23G	M080306013	0.52	0.7	**34**	10	03/05/08	03/05/08	
PYRUVIC ACID	AM23G	M080304004	0.07	0.07	**3**	1	03/04/08	03/04/08	
I-HEXANOIC ACID	AM23G	M080304004	0.08	0.1	**0.28**	1	03/04/08	03/04/08	
I-PENTANOIC ACID	AM23G	M080304004	0.07	0.07	**4.3**	1	03/04/08	03/04/08	

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BOE-C6-0188325

Avocet Environmental Inc.
16 Technology Drive, Suite 154
Irvine, CA 92618
Attention: Michael Rendina

Project ID: Boeing C-6 Torrance (02/26/08)
1155.003
Report Number: IRB2567

Sampled: 02/26/08
Received: 02/26/08

RSK175 Dissolved Gases in Water

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRB2567-01 (AW0073C_WG20080226_01 - Water)									
Reporting Units: ug/L									
Methane	RSK-175	080228GC8A	0.39	1.0	**250**	1	02/28/08	02/28/08	
Ethane	RSK-175	080228GC8A	0.50	2.0	ND	1	02/28/08	02/28/08	
Ethylene	RSK-175	080228GC8A	0.33	3.0	**1.3**	1	02/28/08	02/28/08	Jb
Sample ID: IRB2567-02 (AW0075UB_WG20080226_01 - Water)									
Reporting Units: ug/L									
Methane	RSK-175	080228GC8A	0.39	1.0	**4.1**	1	02/28/08	02/28/08	
Ethane	RSK-175	080228GC8A	0.50	2.0	ND	1	02/28/08	02/28/08	
Ethylene	RSK-175	080228GC8A	0.33	3.0	**3.0**	1	02/28/08	02/28/08	Jb
Sample ID: IRB2567-03 (AW0076UB_WG20080226_01 - Water)									
Reporting Units: ug/L									
Methane	RSK-175	080228GC8A	0.39	1.0	**120**	1	02/28/08	02/28/08	
Ethane	RSK-175	080228GC8A	0.50	2.0	**0.51**	1	02/28/08	02/28/08	Jb
Ethylene	RSK-175	080228GC8A	0.33	3.0	**57**	1	02/28/08	02/28/08	
Sample ID: IRB2567-04 (AW0077UB_WG20080226_01 - Water)									
Reporting Units: ug/L									
Methane	RSK-175	080228GC8A	0.39	1.0	**1100**	1	02/28/08	02/28/08	
Ethane	RSK-175	080228GC8A	0.50	2.0	ND	1	02/28/08	02/28/08	
Ethylene	RSK-175	080228GC8A	0.33	3.0	**87**	1	02/28/08	02/28/08	
Sample ID: IRB2567-07 (EWB002_WG20080226_01 - Water)									
Reporting Units: ug/L									
Methane	RSK-175	080228GC8A	0.39	1.0	**1400**	1	02/28/08	02/28/08	
Ethane	RSK-175	080228GC8A	0.50	2.0	ND	1	02/28/08	02/28/08	
Ethylene	RSK-175	080228GC8A	0.33	3.0	**28**	1	02/28/08	02/28/08	

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Attention: Michael Rendina

Project ID: Boeing C-6 Torrance (02/26/08)
1155.003
Report Number: IRB2567

Sampled: 02/26/08
Received: 02/26/08

SHORT HOLD TIME DETAIL REPORT

	Hold Time (in days)	Date/Time Sampled	Date/Time Received	Date/Time Extracted	Date/Time Analyzed
Sample ID: AW0073C_WG20080226_01 (IRB2567-01) - Water					
EPA 300.0	2	02/26/2008 08:38	02/26/2008 17:26	02/26/2008 18:00	02/26/2008 20:15
Sample ID: AW0075UB_WG20080226_01 (IRB2567-02) - Water					
EPA 300.0	2	02/26/2008 10:20	02/26/2008 17:26	02/26/2008 18:00	02/26/2008 20:28
Sample ID: AW0076UB_WG20080226_01 (IRB2567-03) - Water					
EPA 300.0	2	02/26/2008 14:38	02/26/2008 17:26	02/26/2008 18:00	02/26/2008 21:09
Sample ID: AW0077UB_WG20080226_01 (IRB2567-04) - Water					
EPA 300.0	2	02/26/2008 13:00	02/26/2008 17:26	02/26/2008 18:00	02/26/2008 21:35
Sample ID: EWB002_WG20080226_01 (IRB2567-07) - Water					
EPA 300.0	2	02/26/2008 11:52	02/26/2008 17:26	02/26/2008 18:00	02/26/2008 22:01

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Project ID: Boeing C-6 Torrance (02/26/08)
1155.003
Report Number: IRB2567

Sampled: 02/26/08
Received: 02/26/08

METHOD BLANK/QC DATA

VOLATILE ORGANICS--GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8C01018 Extracted: 03/01/08											
Blank Analyzed: 03/01/2008 (8C01018-BLK1)											
Acrolein	ND	5.0	4.0	ug/l							
Acrylonitrile	ND	2.0	0.70	ug/l							
2-Chloroethyl vinyl ether	ND	5.0	1.8	ug/l							
Surrogate: Dibromofluoromethane	*24.2*			*ug/l*	*25.0*		*97*	*80-120*			
Surrogate: Toluene-d8	*23.5*			*ug/l*	*25.0*		*94*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*23.5*			*ug/l*	*25.0*		*94*	*80-120*			
LCS Analyzed: 03/01/2008 (8C01018-BS1)											
2-Chloroethyl vinyl ether	28.6	5.0	1.8	ug/l	25.0		114	25-170			
Surrogate: Dibromofluoromethane	*25.2*			*ug/l*	*25.0*		*101*	*80-120*			
Surrogate: Toluene-d8	*23.9*			*ug/l*	*25.0*		*95*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*25.1*			*ug/l*	*25.0*		*100*	*80-120*			
Matrix Spike Analyzed: 03/01/2008 (8C01018-MS1)						**Source: IRB2751-08**					
2-Chloroethyl vinyl ether	ND	5.0	1.8	ug/l	25.0	ND		25-170			*M13*
Surrogate: Dibromofluoromethane	*25.0*			*ug/l*	*25.0*		*100*	*80-120*			
Surrogate: Toluene-d8	*23.8*			*ug/l*	*25.0*		*95*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*24.8*			*ug/l*	*25.0*		*99*	*80-120*			
Matrix Spike Dup Analyzed: 03/01/2008 (8C01018-MSD1)						**Source: IRB2751-08**					
2-Chloroethyl vinyl ether	ND	5.0	1.8	ug/l	25.0	ND		25-170		25	*M13*
Surrogate: Dibromofluoromethane	*25.0*			*ug/l*	*25.0*		*100*	*80-120*			
Surrogate: Toluene-d8	*23.6*			*ug/l*	*25.0*		*95*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*24.6*			*ug/l*	*25.0*		*98*	*80-120*			
Batch: 8C02002 Extracted: 03/02/08											
Blank Analyzed: 03/02/2008 (8C02002-BLK1)											
Acrolein	ND	5.0	4.0	ug/l							
Acrylonitrile	ND	2.0	0.70	ug/l							
2-Chloroethyl vinyl ether	ND	5.0	1.8	ug/l							
Surrogate: Dibromofluoromethane	*23.9*			*ug/l*	*25.0*		*96*	*80-120*			
Surrogate: Toluene-d8	*23.4*			*ug/l*	*25.0*		*94*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*23.1*			*ug/l*	*25.0*		*93*	*80-120*			

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Project ID: Boeing C-6 Torrance (02/26/08)
1155.003
Report Number: IRB2567

Sampled: 02/26/08
Received: 02/26/08

METHOD BLANK/QC DATA

VOLATILE ORGANICS--GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8C02002 Extracted: 03/02/08											
LCS Analyzed: 03/02/2008 (8C02002-BS1)											
2-Chloroethyl vinyl ether	25.8	5.0	1.8	ug/l	25.0		103	25-170			
Surrogate: Dibromofluoromethane	*24.0*			*ug/l*	*25.0*		*96*	*80-120*			
Surrogate: Toluene-d8	*23.7*			*ug/l*	*25.0*		*95*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*24.0*			*ug/l*	*25.0*		*96*	*80-120*			
Matrix Spike Analyzed: 03/02/2008 (8C02002-MS1)						**Source: IRB2628-11**					
2-Chloroethyl vinyl ether	ND	5.0	1.8	ug/l	25.0	ND		25-170			*M13*
Surrogate: Dibromofluoromethane	*24.3*			*ug/l*	*25.0*		*97*	*80-120*			
Surrogate: Toluene-d8	*23.8*			*ug/l*	*25.0*		*95*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*24.5*			*ug/l*	*25.0*		*98*	*80-120*			
Matrix Spike Dup Analyzed: 03/02/2008 (8C02002-MSD1)						**Source: IRB2628-11**					
2-Chloroethyl vinyl ether	ND	5.0	1.8	ug/l	25.0	ND		25-170		25	*M13*
Surrogate: Dibromofluoromethane	*24.2*			*ug/l*	*25.0*		*97*	*80-120*			
Surrogate: Toluene-d8	*23.8*			*ug/l*	*25.0*		*95*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*24.6*			*ug/l*	*25.0*		*98*	*80-120*			

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Project ID: Boeing C-6 Torrance (02/26/08)
1155.003
Report Number: IRB2567

Sampled: 02/26/08
Received: 02/26/08

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8C02005 Extracted: 03/02/08											
Blank Analyzed: 03/02/2008 (8C02005-BLK1)											
Acetone	ND	10	4.5	ug/l							
tert-Amyl Methyl Ether (TAME)	ND	2.0	0.33	ug/l							
Benzene	ND	0.50	0.28	ug/l							
Bromobenzene	ND	1.0	0.27	ug/l							
Bromochloromethane	ND	1.0	0.32	ug/l							
Bromodichloromethane	ND	1.0	0.30	ug/l							
Bromoform	ND	1.0	0.40	ug/l							
Bromomethane	ND	1.0	0.42	ug/l							
tert-Butanol (TBA)	ND	25	4.9	ug/l							
2-Butanone (MEK)	ND	5.0	4.7	ug/l							
tert-Butylbenzene	ND	1.0	0.22	ug/l							
n-Butylbenzene	ND	1.0	0.37	ug/l							
sec-Butylbenzene	ND	1.0	0.25	ug/l							
Carbon Disulfide	ND	1.0	0.48	ug/l							
Carbon tetrachloride	ND	0.50	0.28	ug/l							
Chlorobenzene	ND	1.0	0.36	ug/l							
Chloroethane	ND	2.0	0.40	ug/l							
Chloroform	ND	1.0	0.33	ug/l							
Chloromethane	ND	2.0	0.40	ug/l							
2-Chlorotoluene	ND	1.0	0.28	ug/l							
4-Chlorotoluene	ND	1.0	0.29	ug/l							
1,2-Dibromo-3-chloropropane	ND	2.0	0.97	ug/l							
Dibromochloromethane	ND	1.0	0.28	ug/l							
1,2-Dibromoethane (EDB)	ND	1.0	0.40	ug/l							
1,3-Dichlorobenzene	ND	1.0	0.35	ug/l							
1,4-Dichlorobenzene	ND	1.0	0.37	ug/l							
1,2-Dichlorobenzene	ND	1.0	0.32	ug/l							
Dichlorodifluoromethane	ND	1.0	0.26	ug/l							
1,1-Dichloroethane	ND	1.0	0.27	ug/l							
1,2-Dichloroethane	ND	0.50	0.28	ug/l							
cis-1,2-Dichloroethene	ND	1.0	0.32	ug/l							
1,1-Dichloroethene	ND	1.0	0.42	ug/l							
trans-1,2-Dichloroethene	ND	1.0	0.27	ug/l							
2,2-Dichloropropane	ND	1.0	0.34	ug/l							
1,2-Dichloropropane	ND	1.0	0.35	ug/l							

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Project ID: Boeing C-6 Torrance (02/26/08)
1155.003
Report Number: IRB2567

Sampled: 02/26/08
Received: 02/26/08

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8C02005 Extracted: 03/02/08											
Blank Analyzed: 03/02/2008 (8C02005-BLK1)											
cis-1,3-Dichloropropene	ND	0.50	0.22	ug/l							
1,1-Dichloropropene	ND	1.0	0.28	ug/l							
trans-1,3-Dichloropropene	ND	0.50	0.32	ug/l							
Di-isopropyl Ether (DIPE)	ND	2.0	0.25	ug/l							
Ethylbenzene	ND	1.0	0.25	ug/l							
Ethyl tert-Butyl Ether (ETBE)	ND	2.0	0.28	ug/l							
Hexachlorobutadiene	ND	1.0	0.38	ug/l							
2-Hexanone	ND	6.0	2.6	ug/l							
Iodomethane	ND	2.0	1.0	ug/l							
Isopropylbenzene	ND	1.0	0.25	ug/l							
p-Isopropyltoluene	ND	1.0	0.28	ug/l							
Methyl-tert-butyl Ether (MTBE)	ND	1.0	0.32	ug/l							
Methylene chloride	ND	1.0	0.95	ug/l							
4-Methyl-2-pentanone (MIBK)	ND	5.0	3.5	ug/l							
n-Propylbenzene	ND	1.0	0.27	ug/l							
Styrene	ND	1.0	0.16	ug/l							
1,1,1,2-Tetrachloroethane	ND	1.0	0.27	ug/l							
1,1,2,2-Tetrachloroethane	ND	1.0	0.24	ug/l							
Tetrachloroethene	ND	1.0	0.32	ug/l							
Tetrahydrofuran (THF)	ND	10	3.5	ug/l							
Toluene	ND	1.0	0.36	ug/l							
1,2,3-Trichlorobenzene	ND	1.0	0.30	ug/l							
1,2,4-Trichlorobenzene	ND	1.0	0.48	ug/l							
1,1,1-Trichloroethane	ND	1.0	0.30	ug/l							
1,1,2-Trichloroethane	ND	1.0	0.30	ug/l							
Trichloroethene	ND	1.0	0.26	ug/l							
Trichlorofluoromethane	ND	2.0	0.34	ug/l							
1,2,3-Trichloropropane	ND	1.0	0.40	ug/l							
1,3,5-Trimethylbenzene	ND	1.0	0.26	ug/l							
1,2,4-Trimethylbenzene	ND	1.0	0.23	ug/l							
Vinyl acetate	ND	6.0	1.0	ug/l							
Vinyl chloride	ND	0.50	0.30	ug/l							
o-Xylene	ND	0.50	0.30	ug/l							
Xylenes, Total	ND	1.0	0.90	ug/l							
m,p-Xylenes	ND	1.0	0.60	ug/l							

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BOE-C6-0188328

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Project ID: Boeing C-6 Torrance (02/26/08)
1155.003
Report Number: IRB2567

Sampled: 02/26/08
Received: 02/26/08

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8C02005 Extracted: 03/02/08											
Blank Analyzed: 03/02/2008 (8C02005-BLK1)											
Surrogate: Dibromofluoromethane	*27.6*			*ug/l*	*25.0*		*111*	*80-120*			
Surrogate: Toluene-d8	*24.8*			*ug/l*	*25.0*		*99*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*25.8*			*ug/l*	*25.0*		*103*	*80-120*			
LCS Analyzed: 03/02/2008 (8C02005-BS1)											
Acetone	34.4	10	4.5	ug/l	25.0		137	30-140			
tert-Amyl Methyl Ether (TAME)	31.7	2.0	0.33	ug/l	25.0		127	60-135			
Benzene	26.7	0.50	0.28	ug/l	25.0		107	70-120			
Bromobenzene	24.8	1.0	0.27	ug/l	25.0		99	75-120			
Bromochloromethane	26.6	1.0	0.32	ug/l	25.0		106	70-130			
Bromodichloromethane	32.0	1.0	0.30	ug/l	25.0		128	70-135			
Bromoform	25.2	1.0	0.40	ug/l	25.0		101	55-130			
Bromomethane	33.4	1.0	0.42	ug/l	25.0		133	65-140			
tert-Butanol (TBA)	134	25	4.9	ug/l	125		107	70-135			
2-Butanone (MEK)	30.4	5.0	4.7	ug/l	25.0		121	40-140			
tert-Butylbenzene	25.2	1.0	0.22	ug/l	25.0		101	70-125			
n-Butylbenzene	26.5	1.0	0.37	ug/l	25.0		106	70-130			
sec-Butylbenzene	25.7	1.0	0.25	ug/l	25.0		103	70-125			
Carbon Disulfide	27.2	1.0	0.48	ug/l	25.0		109	50-130			
Carbon tetrachloride	29.9	0.50	0.28	ug/l	25.0		120	65-140			
Chlorobenzene	25.4	1.0	0.36	ug/l	25.0		102	75-120			
Chloroethane	32.3	2.0	0.40	ug/l	25.0		129	60-140			
Chloroform	32.2	1.0	0.33	ug/l	25.0		129	70-130			
Chloromethane	30.9	2.0	0.40	ug/l	25.0		124	50-140			
2-Chlorotoluene	26.2	1.0	0.28	ug/l	25.0		105	70-125			
4-Chlorotoluene	26.6	1.0	0.29	ug/l	25.0		106	75-125			
1,2-Dibromo-3-chloropropane	30.5	2.0	0.97	ug/l	25.0		122	50-135			
Dibromochloromethane	30.5	1.0	0.28	ug/l	25.0		122	70-140			
1,2-Dibromoethane (EDB)	26.8	1.0	0.40	ug/l	25.0		107	75-125			
1,3-Dichlorobenzene	25.8	1.0	0.35	ug/l	25.0		103	75-120			
1,4-Dichlorobenzene	23.4	1.0	0.37	ug/l	25.0		94	75-120			
1,2-Dichlorobenzene	25.9	1.0	0.32	ug/l	25.0		104	75-120			
Dichlorodifluoromethane	37.6	1.0	0.26	ug/l	25.0		150	35-155			
1,1-Dichloroethane	28.9	1.0	0.27	ug/l	25.0		116	70-125			
1,2-Dichloroethane	32.5	0.50	0.28	ug/l	25.0		130	60-140			
cis-1,2-Dichloroethene	28.0	1.0	0.32	ug/l	25.0		112	70-125			

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Project ID: Boeing C-6 Torrance (02/26/08)
1155.003
Report Number: IRB2567

Sampled: 02/26/08
Received: 02/26/08

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8C02005 Extracted: 03/02/08											
LCS Analyzed: 03/02/2008 (8C02005-BS1)											
1,1-Dichloroethene	26.8	1.0	0.42	ug/l	25.0		107	70-125			
trans-1,2-Dichloroethene	27.9	1.0	0.27	ug/l	25.0		112	70-125			
2,2-Dichloropropane	31.6	1.0	0.34	ug/l	25.0		126	65-140			
1,2-Dichloropropane	26.6	1.0	0.35	ug/l	25.0		107	70-125			
cis-1,3-Dichloropropene	26.1	0.50	0.22	ug/l	25.0		104	75-125			
1,1-Dichloropropene	28.1	1.0	0.28	ug/l	25.0		112	75-130			
trans-1,3-Dichloropropene	27.1	0.50	0.32	ug/l	25.0		109	70-125			
Di-isopropyl Ether (DIPE)	34.4	2.0	0.25	ug/l	25.0		137	60-135			*L*
Ethylbenzene	27.5	1.0	0.25	ug/l	25.0		110	75-125			
Ethyl tert-Butyl Ether (ETBE)	31.9	2.0	0.28	ug/l	25.0		127	65-135			
Hexachlorobutadiene	26.6	1.0	0.38	ug/l	25.0		106	65-135			
2-Hexanone	31.4	6.0	2.6	ug/l	25.0		126	45-140			
Isopropylbenzene	28.7	1.0	0.25	ug/l	25.0		115	75-130			
p-Isopropyltoluene	25.4	1.0	0.28	ug/l	25.0		101	75-125			
Methyl-tert-butyl Ether (MTBE)	31.2	1.0	0.32	ug/l	25.0		125	60-135			
Methylene chloride	29.6	1.0	0.95	ug/l	25.0		118	55-130			
4-Methyl-2-pentanone (MIBK)	32.1	5.0	3.5	ug/l	25.0		128	45-140			
n-Propylbenzene	26.7	1.0	0.27	ug/l	25.0		107	75-130			
Styrene	28.0	1.0	0.16	ug/l	25.0		112	75-130			
1,1,1,2-Tetrachloroethane	27.3	1.0	0.27	ug/l	25.0		109	70-130			
1,1,2,2-Tetrachloroethane	28.4	1.0	0.24	ug/l	25.0		113	55-130			
Tetrachloroethene	24.4	1.0	0.32	ug/l	25.0		98	70-125			
Toluene	26.8	1.0	0.36	ug/l	25.0		107	70-120			
1,2,3-Trichlorobenzene	24.9	1.0	0.30	ug/l	25.0		100	65-125			
1,2,4-Trichlorobenzene	25.0	1.0	0.48	ug/l	25.0		100	70-135			
1,1,1-Trichloroethane	31.9	1.0	0.30	ug/l	25.0		128	65-135			
1,1,2-Trichloroethane	27.7	1.0	0.30	ug/l	25.0		111	70-125			
Trichloroethene	25.2	1.0	0.26	ug/l	25.0		101	70-125			
Trichlorofluoromethane	40.6	2.0	0.34	ug/l	25.0		162	65-145			*L*
1,2,3-Trichloropropane	27.4	1.0	0.40	ug/l	25.0		110	60-130			
1,3,5-Trimethylbenzene	26.3	1.0	0.26	ug/l	25.0		105	75-125			
1,2,4-Trimethylbenzene	26.2	1.0	0.23	ug/l	25.0		105	75-125			
Vinyl acetate	36.2	6.0	1.0	ug/l	25.0		145	45-145			
Vinyl chloride	36.2	0.50	0.30	ug/l	25.0		145	55-135			*L*
o-Xylene	27.3	0.50	0.30	ug/l	25.0		109	75-125			

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Project Manager

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BOE-C6-0188329

Avocet Environmental Inc.
16 Technology Drive, Suite 154
Irvine, CA 92618
Attention: Michael Rendina

Project ID: Boeing C-6 Torrance (02/26/08)
1155.003
Report Number: IRB2567

Sampled: 02/26/08
Received: 02/26/08

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8C02005 Extracted: 03/02/08											
LCS Analyzed: 03/02/2008 (8C02005-BS1)											
m,p-Xylenes	54.4	1.0	0.60	ug/l	50.0		109	75-125			
Surrogate: Dibromofluoromethane	*28.8*			*ug/l*	*25.0*		*115*	*80-120*			
Surrogate: Toluene-d8	*24.9*			*ug/l*	*25.0*		*100*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*28.1*			*ug/l*	*25.0*		*112*	*80-120*			
Matrix Spike Analyzed: 03/02/2008 (8C02005-MS1)						**Source: IRB2464-01**					
Acetone	42.8	10	4.5	ug/l	25.0	13.9	116	20-150			
tert-Amyl Methyl Ether (TAME)	31.2	2.0	0.33	ug/l	25.0	ND	125	60-140			
Benzene	27.0	0.50	0.28	ug/l	25.0	ND	108	65-125			
Bromobenzene	24.4	1.0	0.27	ug/l	25.0	ND	98	70-125			
Bromochloromethane	26.9	1.0	0.32	ug/l	25.0	ND	108	65-135			
Bromodichloromethane	33.3	1.0	0.30	ug/l	25.0	ND	133	70-135			
Bromoform	25.0	1.0	0.40	ug/l	25.0	ND	100	55-135			
Bromomethane	32.5	1.0	0.42	ug/l	25.0	ND	130	55-145			
tert-Butanol (TBA)	136	25	4.9	ug/l	125	ND	109	65-140			
2-Butanone (MEK)	29.4	5.0	4.7	ug/l	25.0	ND	117	30-145			
tert-Butylbenzene	24.8	1.0	0.22	ug/l	25.0	ND	99	65-130			
n-Butylbenzene	26.8	1.0	0.37	ug/l	25.0	ND	107	65-135			
sec-Butylbenzene	25.8	1.0	0.25	ug/l	25.0	ND	103	70-125			
Carbon Disulfide	27.0	1.0	0.48	ug/l	25.0	ND	108	40-140			
Carbon tetrachloride	29.8	0.50	0.28	ug/l	25.0	ND	119	65-140			
Chlorobenzene	25.5	1.0	0.36	ug/l	25.0	ND	102	75-125			
Chloroethane	32.0	2.0	0.40	ug/l	25.0	ND	128	55-140			
Chloroform	33.2	1.0	0.33	ug/l	25.0	0.410	131	65-135			
Chloromethane	29.3	2.0	0.40	ug/l	25.0	ND	117	45-145			
2-Chlorotoluene	25.9	1.0	0.28	ug/l	25.0	ND	104	65-135			
4-Chlorotoluene	26.2	1.0	0.29	ug/l	25.0	ND	105	70-135			
1,2-Dibromo-3-chloropropane	29.5	2.0	0.97	ug/l	25.0	ND	118	45-145			
Dibromochloromethane	30.3	1.0	0.28	ug/l	25.0	ND	121	65-140			
1,2-Dibromoethane (EDB)	27.0	1.0	0.40	ug/l	25.0	ND	108	70-130			
1,3-Dichlorobenzene	25.5	1.0	0.35	ug/l	25.0	ND	102	75-125			
1,4-Dichlorobenzene	23.4	1.0	0.37	ug/l	25.0	ND	94	75-125			
1,2-Dichlorobenzene	25.8	1.0	0.32	ug/l	25.0	ND	103	75-125			
Dichlorodifluoromethane	31.6	1.0	0.26	ug/l	25.0	ND	126	25-155			
1,1-Dichloroethane	29.4	1.0	0.27	ug/l	25.0	ND	118	65-130			
1,2-Dichloroethane	32.9	0.50	0.28	ug/l	25.0	ND	132	60-140			

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Project Manager

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THE LEADER IN ENVIRONMENTAL TESTING
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Avocet Environmental Inc.
16 Technology Drive, Suite 154
Irvine, CA 92618
Attention: Michael Rendina

Project ID: Boeing C-6 Torrance (02/26/08)
1155.003
Report Number: IRB2567

Sampled: 02/26/08
Received: 02/26/08

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8C02005 Extracted: 03/02/08											
Matrix Spike Analyzed: 03/02/2008 (8C02005-MS1)						**Source: IRB2464-01**					
cis-1,2-Dichloroethene	34.4	1.0	0.32	ug/l	25.0	5.41	116	65-130			
1,1-Dichloroethene	26.6	1.0	0.42	ug/l	25.0	ND	106	60-130			
trans-1,2-Dichloroethene	28.3	1.0	0.27	ug/l	25.0	ND	113	65-130			
2,2-Dichloropropane	32.1	1.0	0.34	ug/l	25.0	ND	128	60-145			
1,2-Dichloropropane	27.0	1.0	0.35	ug/l	25.0	ND	108	65-130			
cis-1,3-Dichloropropene	25.9	0.50	0.22	ug/l	25.0	ND	104	70-130			
1,1-Dichloropropene	28.2	1.0	0.28	ug/l	25.0	ND	113	70-135			
trans-1,3-Dichloropropene	27.1	0.50	0.32	ug/l	25.0	ND	108	65-135			
Di-isopropyl Ether (DIPE)	34.5	2.0	0.25	ug/l	25.0	ND	138	60-140			
Ethylbenzene	27.9	1.0	0.25	ug/l	25.0	ND	112	65-130			
Ethyl tert-Butyl Ether (ETBE)	31.5	2.0	0.28	ug/l	25.0	ND	126	60-135			
Hexachlorobutadiene	26.7	1.0	0.38	ug/l	25.0	ND	107	60-135			
2-Hexanone	30.4	6.0	2.6	ug/l	25.0	ND	122	25-140			
Isopropylbenzene	28.1	1.0	0.25	ug/l	25.0	ND	112	70-135			
p-Isopropyltoluene	25.5	1.0	0.28	ug/l	25.0	ND	102	65-130			
Methyl-tert-butyl Ether (MTBE)	31.1	1.0	0.32	ug/l	25.0	ND	124	55-145			
Methylene chloride	28.9	1.0	0.95	ug/l	25.0	ND	116	50-135			
4-Methyl-2-pentanone (MIBK)	31.7	5.0	3.5	ug/l	25.0	ND	127	40-140			
n-Propylbenzene	26.7	1.0	0.27	ug/l	25.0	ND	107	70-135			
Styrene	28.0	1.0	0.16	ug/l	25.0	ND	112	50-145			
1,1,1,2-Tetrachloroethane	27.2	1.0	0.27	ug/l	25.0	ND	109	65-140			
1,1,2,2-Tetrachloroethane	27.8	1.0	0.24	ug/l	25.0	ND	111	55-135			
Tetrachloroethene	24.6	1.0	0.32	ug/l	25.0	ND	98	65-130			
Toluene	26.9	1.0	0.36	ug/l	25.0	ND	107	70-125			
1,2,3-Trichlorobenzene	25.3	1.0	0.30	ug/l	25.0	ND	101	60-135			
1,2,4-Trichlorobenzene	25.3	1.0	0.48	ug/l	25.0	ND	101	65-135			
1,1,1-Trichloroethane	32.2	1.0	0.30	ug/l	25.0	ND	129	65-140			
1,1,2-Trichloroethane	27.7	1.0	0.30	ug/l	25.0	ND	111	65-130			
Trichloroethene	103	1.0	0.26	ug/l	25.0	74.5	116	65-125			
Trichlorofluoromethane	40.6	2.0	0.34	ug/l	25.0	ND	163	60-145			*M7*
1,2,3-Trichloropropane	26.6	1.0	0.40	ug/l	25.0	ND	107	55-135			
1,3,5-Trimethylbenzene	26.1	1.0	0.26	ug/l	25.0	ND	104	70-130			
1,2,4-Trimethylbenzene	26.0	1.0	0.23	ug/l	25.0	ND	104	55-135			
Vinyl acetate	35.2	6.0	1.0	ug/l	25.0	ND	141	40-150			
Vinyl chloride	35.6	0.50	0.30	ug/l	25.0	ND	142	45-140			*M7*

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BOE-C6-0188330

TestAmerica
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Avocet Environmental Inc.
16 Technology Drive, Suite 154
Irvine, CA 92618
Attention: Michael Rendina

Project ID: Boeing C-6 Torrance (02/26/08)
1155.003
Report Number: IRB2567

Sampled: 02/26/08
Received: 02/26/08

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8C02005 Extracted: 03/02/08											
Matrix Spike Analyzed: 03/02/2008 (8C02005-MS1)						**Source: IRB2464-01**					
o-Xylene	27.7	0.50	0.30	ug/l	25.0	ND	111	65-125			
m,p-Xylenes	55.7	1.0	0.60	ug/l	50.0	ND	111	65-130			
Surrogate: Dibromofluoromethane	*29.2*			*ug/l*	*25.0*		*117*	*80-120*			
Surrogate: Toluene-d8	*25.0*			*ug/l*	*25.0*		*100*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*28.6*			*ug/l*	*25.0*		*115*	*80-120*			
Matrix Spike Dup Analyzed: 03/02/2008 (8C02005-MSD1)						**Source: IRB2464-01**					
Acetone	43.7	10	4.5	ug/l	25.0	13.9	119	20-150	2	35	
tert-Amyl Methyl Ether (TAME)	31.7	2.0	0.33	ug/l	25.0	ND	127	60-140	2	30	
Benzene	27.8	0.50	0.28	ug/l	25.0	ND	111	65-125	3	20	
Bromobenzene	25.3	1.0	0.27	ug/l	25.0	ND	101	70-125	4	20	
Bromochloromethane	27.5	1.0	0.32	ug/l	25.0	ND	110	65-135	2	25	
Bromodichloromethane	34.0	1.0	0.30	ug/l	25.0	ND	136	70-135	2	20	*M1*
Bromoform	25.7	1.0	0.40	ug/l	25.0	ND	103	55-135	3	25	
Bromomethane	34.0	1.0	0.42	ug/l	25.0	ND	136	55-145	5	25	
tert-Butanol (TBA)	139	25	4.9	ug/l	125	ND	111	65-140	2	25	
2-Butanone (MEK)	29.1	5.0	4.7	ug/l	25.0	ND	116	30-145	1	40	
tert-Butylbenzene	25.4	1.0	0.22	ug/l	25.0	ND	102	65-130	2	20	
n-Butylbenzene	27.4	1.0	0.37	ug/l	25.0	ND	110	65-135	2	20	
sec-Butylbenzene	26.2	1.0	0.25	ug/l	25.0	ND	105	70-125	2	20	
Carbon Disulfide	27.0	1.0	0.48	ug/l	25.0	ND	108	40-140	0	20	
Carbon tetrachloride	30.9	0.50	0.28	ug/l	25.0	ND	124	65-140	4	25	
Chlorobenzene	26.0	1.0	0.36	ug/l	25.0	ND	104	75-125	2	20	
Chloroethane	34.1	2.0	0.40	ug/l	25.0	ND	137	55-140	7	25	
Chloroform	33.3	1.0	0.33	ug/l	25.0	0.410	132	65-135	1	20	
Chloromethane	31.2	2.0	0.40	ug/l	25.0	ND	125	45-145	6	25	
2-Chlorotoluene	26.5	1.0	0.28	ug/l	25.0	ND	106	65-135	2	20	
4-Chlorotoluene	26.9	1.0	0.29	ug/l	25.0	ND	108	70-135	3	20	
1,2-Dibromo-3-chloropropane	31.4	2.0	0.97	ug/l	25.0	ND	125	45-145	6	30	
Dibromochloromethane	31.3	1.0	0.28	ug/l	25.0	ND	125	65-140	3	25	
1,2-Dibromoethane (EDB)	27.4	1.0	0.40	ug/l	25.0	ND	110	70-130	2	25	
1,3-Dichlorobenzene	26.1	1.0	0.35	ug/l	25.0	ND	104	75-125	2	20	
1,4-Dichlorobenzene	23.8	1.0	0.37	ug/l	25.0	ND	95	75-125	2	20	
1,2-Dichlorobenzene	26.7	1.0	0.32	ug/l	25.0	ND	107	75-125	3	20	
Dichlorodifluoromethane	33.5	1.0	0.26	ug/l	25.0	ND	134	25-155	6	30	
1,1-Dichloroethane	29.9	1.0	0.27	ug/l	25.0	ND	120	65-130	2	20	

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Project Manager

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Avocet Environmental Inc.
16 Technology Drive, Suite 154
Irvine, CA 92618
Attention: Michael Rendina

Project ID: Boeing C-6 Torrance (02/26/08)
1155.003
Report Number: IRB2567

Sampled: 02/26/08
Received: 02/26/08

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8C02005 Extracted: 03/02/08											
Matrix Spike Dup Analyzed: 03/02/2008 (8C02005-MSD1)						**Source: IRB2464-01**					
1,2-Dichloroethane	34.1	0.50	0.28	ug/l	25.0	ND	136	60-140	3	20	
cis-1,2-Dichloroethene	34.8	1.0	0.32	ug/l	25.0	5.41	118	65-130	1	20	
1,1-Dichloroethene	27.1	1.0	0.42	ug/l	25.0	ND	108	60-130	2	20	
trans-1,2-Dichloroethene	29.1	1.0	0.27	ug/l	25.0	ND	116	65-130	3	20	
2,2-Dichloropropane	32.2	1.0	0.34	ug/l	25.0	ND	129	60-145	0	25	
1,2-Dichloropropane	28.0	1.0	0.35	ug/l	25.0	ND	112	65-130	4	20	
cis-1,3-Dichloropropene	26.7	0.50	0.22	ug/l	25.0	ND	107	70-130	3	20	
1,1-Dichloropropene	29.2	1.0	0.28	ug/l	25.0	ND	117	70-135	4	20	
trans-1,3-Dichloropropene	28.2	0.50	0.32	ug/l	25.0	ND	113	65-135	4	25	
Di-isopropyl Ether (DIPE)	35.0	2.0	0.25	ug/l	25.0	ND	140	60-140	1	25	
Ethylbenzene	28.6	1.0	0.25	ug/l	25.0	ND	114	65-130	2	20	
Ethyl tert-Butyl Ether (ETBE)	32.0	2.0	0.28	ug/l	25.0	ND	128	60-135	2	25	
Hexachlorobutadiene	27.3	1.0	0.38	ug/l	25.0	ND	109	60-135	2	20	
2-Hexanone	30.9	6.0	2.6	ug/l	25.0	ND	124	25-140	2	35	
Isopropylbenzene	29.4	1.0	0.25	ug/l	25.0	ND	117	70-135	4	20	
p-Isopropyltoluene	25.8	1.0	0.28	ug/l	25.0	ND	103	65-130	1	20	
Methyl-tert-butyl Ether (MTBE)	31.7	1.0	0.32	ug/l	25.0	ND	127	55-145	2	25	
Methylene chloride	29.2	1.0	0.95	ug/l	25.0	ND	117	50-135	1	20	
4-Methyl-2-pentanone (MIBK)	32.0	5.0	3.5	ug/l	25.0	ND	128	40-140	1	35	
n-Propylbenzene	27.4	1.0	0.27	ug/l	25.0	ND	109	70-135	2	20	
Styrene	28.7	1.0	0.16	ug/l	25.0	ND	115	50-145	2	30	
1,1,1,2-Tetrachloroethane	28.0	1.0	0.27	ug/l	25.0	ND	112	65-140	3	20	
1,1,2,2-Tetrachloroethane	28.1	1.0	0.24	ug/l	25.0	ND	112	55-135	1	30	
Tetrachloroethene	25.2	1.0	0.32	ug/l	25.0	ND	101	65-130	3	20	
Toluene	27.7	1.0	0.36	ug/l	25.0	ND	111	70-125	3	20	
1,2,3-Trichlorobenzene	25.9	1.0	0.30	ug/l	25.0	ND	104	60-135	2	20	
1,2,4-Trichlorobenzene	26.0	1.0	0.48	ug/l	25.0	ND	104	65-135	3	20	
1,1,1-Trichloroethane	32.4	1.0	0.30	ug/l	25.0	ND	130	65-140	1	20	
1,1,2-Trichloroethane	28.5	1.0	0.30	ug/l	25.0	ND	114	65-130	3	25	
Trichloroethene	101	1.0	0.26	ug/l	25.0	74.5	106	65-125	2	20	
Trichlorofluoromethane	39.7	2.0	0.34	ug/l	25.0	ND	159	60-145	2	25	*M7*
1,2,3-Trichloropropane	27.2	1.0	0.40	ug/l	25.0	ND	109	55-135	2	30	
1,3,5-Trimethylbenzene	26.6	1.0	0.26	ug/l	25.0	ND	106	70-130	2	20	
1,2,4-Trimethylbenzene	26.6	1.0	0.23	ug/l	25.0	ND	106	55-135	2	25	
Vinyl acetate	35.4	6.0	1.0	ug/l	25.0	ND	142	40-150	1	30	

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Project Manager

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BOE-C6-0188331

Avocet Environmental Inc.
16 Technology Drive, Suite 154
Irvine, CA 92618
Attention: Michael Rendina

Project ID: Boeing C-6 Torrance (02/26/08)
1155.003
Report Number: IRB2567

Sampled: 02/26/08
Received: 02/26/08

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8C02005 Extracted: 03/02/08											
Matrix Spike Dup Analyzed: 03/02/2008 (8C02005-MSD1)						**Source: IRB2464-01**					
Vinyl chloride	37.0	0.50	0.30	ug/l	25.0	ND	148	45-140	4	30	*M7*
o-Xylene	28.0	0.50	0.30	ug/l	25.0	ND	112	65-125	1	20	
m,p-Xylenes	56.4	1.0	0.60	ug/l	50.0	ND	113	65-130	1	25	
Surrogate: Dibromofluoromethane	*28.6*			*ug/l*	*25.0*		*114*	*80-120*			
Surrogate: Toluene-d8	*25.1*			*ug/l*	*25.0*		*100*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*28.2*			*ug/l*	*25.0*		*113*	*80-120*			
Batch: 8C02011 Extracted: 03/02/08											
Blank Analyzed: 03/02/2008 (8C02011-BLK1)											
Acetone	ND	10	4.5	ug/l							
tert-Amyl Methyl Ether (TAME)	ND	2.0	0.33	ug/l							
Benzene	ND	0.50	0.28	ug/l							
Bromobenzene	ND	1.0	0.27	ug/l							
Bromochloromethane	ND	1.0	0.32	ug/l							
Bromodichloromethane	ND	1.0	0.30	ug/l							
Bromoform	ND	1.0	0.40	ug/l							
Bromomethane	ND	1.0	0.42	ug/l							
tert-Butanol (TBA)	ND	25	4.9	ug/l							
2-Butanone (MEK)	ND	5.0	4.7	ug/l							
tert-Butylbenzene	ND	1.0	0.22	ug/l							
n-Butylbenzene	ND	1.0	0.37	ug/l							
sec-Butylbenzene	ND	1.0	0.25	ug/l							
Carbon Disulfide	ND	1.0	0.48	ug/l							
Carbon tetrachloride	ND	0.50	0.28	ug/l							
Chlorobenzene	ND	1.0	0.36	ug/l							
Chloroethane	ND	2.0	0.40	ug/l							
Chloroform	ND	1.0	0.33	ug/l							
Chloromethane	ND	2.0	0.40	ug/l							
2-Chlorotoluene	ND	1.0	0.28	ug/l							
4-Chlorotoluene	ND	1.0	0.29	ug/l							
1,2-Dibromo-3-chloropropane	ND	2.0	0.97	ug/l							
Dibromochloromethane	ND	1.0	0.28	ug/l							
1,2-Dibromoethane (EDB)	ND	1.0	0.40	ug/l							
1,3-Dichlorobenzene	ND	1.0	0.35	ug/l							
1,4-Dichlorobenzene	ND	1.0	0.37	ug/l							

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Avocet Environmental Inc.
16 Technology Drive, Suite 154
Irvine, CA 92618
Attention: Michael Rendina

Project ID: Boeing C-6 Torrance (02/26/08)
1155.003
Report Number: IRB2567

Sampled: 02/26/08
Received: 02/26/08

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8C02011 Extracted: 03/02/08											
Blank Analyzed: 03/02/2008 (8C02011-BLK1)											
1,2-Dichlorobenzene	ND	1.0	0.32	ug/l							
Dichlorodifluoromethane	ND	1.0	0.26	ug/l							
1,1-Dichloroethane	ND	1.0	0.27	ug/l							
1,2-Dichloroethane	ND	0.50	0.28	ug/l							
cis-1,2-Dichloroethene	ND	1.0	0.32	ug/l							
1,1-Dichloroethene	ND	1.0	0.42	ug/l							
trans-1,2-Dichloroethene	ND	1.0	0.27	ug/l							
2,2-Dichloropropane	ND	1.0	0.34	ug/l							
1,2-Dichloropropane	ND	1.0	0.35	ug/l							
cis-1,3-Dichloropropene	ND	0.50	0.22	ug/l							
1,1-Dichloropropene	ND	1.0	0.28	ug/l							
trans-1,3-Dichloropropene	ND	0.50	0.32	ug/l							
Di-isopropyl Ether (DIPE)	ND	2.0	0.25	ug/l							
Ethylbenzene	ND	1.0	0.25	ug/l							
Ethyl tert-Butyl Ether (ETBE)	ND	2.0	0.28	ug/l							
Hexachlorobutadiene	ND	1.0	0.38	ug/l							
2-Hexanone	ND	6.0	2.6	ug/l							
Iodomethane	ND	2.0	1.0	ug/l							
Isopropylbenzene	ND	1.0	0.25	ug/l							
p-Isopropyltoluene	ND	1.0	0.28	ug/l							
Methyl-tert-butyl Ether (MTBE)	ND	1.0	0.32	ug/l							
Methylene chloride	ND	1.0	0.95	ug/l							
4-Methyl-2-pentanone (MIBK)	ND	5.0	3.5	ug/l							
n-Propylbenzene	ND	1.0	0.27	ug/l							
Styrene	ND	1.0	0.16	ug/l							
1,1,1,2-Tetrachloroethane	ND	1.0	0.27	ug/l							
1,1,2,2-Tetrachloroethane	ND	1.0	0.24	ug/l							
Tetrachloroethene	ND	1.0	0.32	ug/l							
Tetrahydrofuran (THF)	ND	10	3.5	ug/l							
Toluene	ND	1.0	0.36	ug/l							
1,2,3-Trichlorobenzene	ND	1.0	0.30	ug/l							
1,2,4-Trichlorobenzene	ND	1.0	0.48	ug/l							
1,1,1-Trichloroethane	ND	1.0	0.30	ug/l							
1,1,2-Trichloroethane	ND	1.0	0.30	ug/l							
Trichloroethene	ND	1.0	0.26	ug/l							

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BOE-C6-0188332

Avocet Environmental Inc.
16 Technology Drive, Suite 154
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Attention: Michael Rendina

Project ID: Boeing C-6 Torrance (02/26/08)
1155.003
Report Number: IRB2567

Sampled: 02/26/08
Received: 02/26/08

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8C02011 Extracted: 03/02/08											
Blank Analyzed: 03/02/2008 (8C02011-BLK1)											
Trichlorofluoromethane	ND	2.0	0.34	ug/l							
1,2,3-Trichloropropane	ND	1.0	0.40	ug/l							
1,3,5-Trimethylbenzene	ND	1.0	0.26	ug/l							
1,2,4-Trimethylbenzene	ND	1.0	0.23	ug/l							
Vinyl acetate	ND	6.0	1.0	ug/l							
Vinyl chloride	ND	0.50	0.30	ug/l							
o-Xylene	ND	0.50	0.30	ug/l							
Xylenes, Total	ND	1.0	0.90	ug/l							
m,p-Xylenes	ND	1.0	0.60	ug/l							
Surrogate: Dibromofluoromethane	*20.7*			*ug/l*	*25.0*		*83*	*80-120*			
Surrogate: Toluene-d8	*23.0*			*ug/l*	*25.0*		*92*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*20.4*			*ug/l*	*25.0*		*81*	*80-120*			
LCS Analyzed: 03/02/2008 (8C02011-BS1)											
Acetone	24.9	10	4.5	ug/l	25.0		100	30-140			
tert-Amyl Methyl Ether (TAME)	26.1	2.0	0.33	ug/l	25.0		104	60-135			
Benzene	26.8	0.50	0.28	ug/l	25.0		107	70-120			
Bromobenzene	26.6	1.0	0.27	ug/l	25.0		107	75-120			
Bromochloromethane	25.0	1.0	0.32	ug/l	25.0		100	70-130			
Bromodichloromethane	23.8	1.0	0.30	ug/l	25.0		95	70-135			
Bromoform	19.3	1.0	0.40	ug/l	25.0		77	55-130			
Bromomethane	24.9	1.0	0.42	ug/l	25.0		100	65-140			
tert-Butanol (TBA)	136	25	4.9	ug/l	125		109	70-135			
2-Butanone (MEK)	25.8	5.0	4.7	ug/l	25.0		103	40-140			
tert-Butylbenzene	26.7	1.0	0.22	ug/l	25.0		107	70-125			
n-Butylbenzene	26.5	1.0	0.37	ug/l	25.0		106	70-130			
sec-Butylbenzene	26.1	1.0	0.25	ug/l	25.0		104	70-125			
Carbon Disulfide	26.9	1.0	0.48	ug/l	25.0		108	50-130			
Carbon tetrachloride	21.8	0.50	0.28	ug/l	25.0		87	65-140			
Chlorobenzene	24.8	1.0	0.36	ug/l	25.0		99	75-120			
Chloroethane	26.0	2.0	0.40	ug/l	25.0		104	60-140			
Chloroform	23.2	1.0	0.33	ug/l	25.0		93	70-130			
Chloromethane	25.5	2.0	0.40	ug/l	25.0		102	50-140			
2-Chlorotoluene	26.0	1.0	0.28	ug/l	25.0		104	70-125			
4-Chlorotoluene	27.4	1.0	0.29	ug/l	25.0		110	75-125			
1,2-Dibromo-3-chloropropane	23.2	2.0	0.97	ug/l	25.0		93	50-135			

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Avocet Environmental Inc.
16 Technology Drive, Suite 154
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Attention: Michael Rendina

Project ID: Boeing C-6 Torrance (02/26/08)
1155.003
Report Number: IRB2567

Sampled: 02/26/08
Received: 02/26/08

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8C02011 Extracted: 03/02/08											
LCS Analyzed: 03/02/2008 (8C02011-BS1)											
Dibromochloromethane	24.5	1.0	0.28	ug/l	25.0		98	70-140			
1,2-Dibromoethane (EDB)	23.9	1.0	0.40	ug/l	25.0		96	75-125			
1,3-Dichlorobenzene	26.0	1.0	0.35	ug/l	25.0		104	75-120			
1,4-Dichlorobenzene	24.5	1.0	0.37	ug/l	25.0		98	75-120			
1,2-Dichlorobenzene	26.6	1.0	0.32	ug/l	25.0		106	75-120			
Dichlorodifluoromethane	27.1	1.0	0.26	ug/l	25.0		108	35-155			
1,1-Dichloroethane	24.2	1.0	0.27	ug/l	25.0		97	70-125			
1,2-Dichloroethane	21.8	0.50	0.28	ug/l	25.0		87	60-140			
cis-1,2-Dichloroethene	26.6	1.0	0.32	ug/l	25.0		107	70-125			*M-3*
1,1-Dichloroethene	24.4	1.0	0.42	ug/l	25.0		97	70-125			
trans-1,2-Dichloroethene	27.7	1.0	0.27	ug/l	25.0		111	70-125			
2,2-Dichloropropane	23.0	1.0	0.34	ug/l	25.0		92	65-140			
1,2-Dichloropropane	26.4	1.0	0.35	ug/l	25.0		105	70-125			
cis-1,3-Dichloropropene	22.8	0.50	0.22	ug/l	25.0		91	75-125			
1,1-Dichloropropene	25.4	1.0	0.28	ug/l	25.0		102	75-130			
trans-1,3-Dichloropropene	22.7	0.50	0.32	ug/l	25.0		91	70-125			
Di-isopropyl Ether (DIPE)	27.5	2.0	0.25	ug/l	25.0		110	60-135			
Ethylbenzene	25.4	1.0	0.25	ug/l	25.0		102	75-125			
Ethyl tert-Butyl Ether (ETBE)	25.6	2.0	0.28	ug/l	25.0		102	65-135			
Hexachlorobutadiene	24.0	1.0	0.38	ug/l	25.0		96	65-135			
2-Hexanone	22.2	6.0	2.6	ug/l	25.0		89	45-140			
Isopropylbenzene	31.6	1.0	0.25	ug/l	25.0		126	75-130			
p-Isopropyltoluene	25.4	1.0	0.28	ug/l	25.0		101	75-125			
Methyl-tert-butyl Ether (MTBE)	24.7	1.0	0.32	ug/l	25.0		99	60-135			
Methylene chloride	23.6	1.0	0.95	ug/l	25.0		94	55-130			
4-Methyl-2-pentanone (MIBK)	24.0	5.0	3.5	ug/l	25.0		96	45-140			
n-Propylbenzene	28.6	1.0	0.27	ug/l	25.0		114	75-130			
Styrene	23.0	1.0	0.16	ug/l	25.0		92	75-130			
1,1,1,2-Tetrachloroethane	23.8	1.0	0.27	ug/l	25.0		95	70-130			
1,1,2,2-Tetrachloroethane	26.6	1.0	0.24	ug/l	25.0		106	55-130			
Tetrachloroethene	24.5	1.0	0.32	ug/l	25.0		98	70-125			
Toluene	26.9	1.0	0.36	ug/l	25.0		108	70-120			
1,2,3-Trichlorobenzene	26.1	1.0	0.30	ug/l	25.0		104	65-125			
1,2,4-Trichlorobenzene	26.5	1.0	0.48	ug/l	25.0		106	70-135			
1,1,1-Trichloroethane	22.3	1.0	0.30	ug/l	25.0		89	65-135			

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BOE-C6-0188333

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Avocet Environmental Inc.
16 Technology Drive, Suite 154
Irvine, CA 92618
Attention: Michael Rendina

Project ID: Boeing C-6 Torrance (02/26/08)
1155.003
Report Number: IRB2567

Sampled: 02/26/08
Received: 02/26/08

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8C02011 Extracted: 03/02/08											
LCS Analyzed: 03/02/2008 (8C02011-BS1)											
1,1,2-Trichloroethane	26.0	1.0	0.30	ug/l	25.0		104	70-125			
Trichloroethene	25.3	1.0	0.26	ug/l	25.0		101	70-125			*M-3*
Trichlorofluoromethane	22.4	2.0	0.34	ug/l	25.0		90	65-145			
1,2,3-Trichloropropane	25.9	1.0	0.40	ug/l	25.0		104	60-130			
1,3,5-Trimethylbenzene	26.7	1.0	0.26	ug/l	25.0		107	75-125			
1,2,4-Trimethylbenzene	26.4	1.0	0.23	ug/l	25.0		105	75-125			
Vinyl acetate	29.6	6.0	1.0	ug/l	25.0		119	45-145			
Vinyl chloride	24.6	0.50	0.30	ug/l	25.0		98	55-135			
o-Xylene	24.2	0.50	0.30	ug/l	25.0		97	75-125			
m,p-Xylenes	51.1	1.0	0.60	ug/l	50.0		102	75-125			
Surrogate: Dibromofluoromethane	*20.6*			*ug/l*	*25.0*		*82*	*80-120*			
Surrogate: Toluene-d8	*23.4*			*ug/l*	*25.0*		*94*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*21.6*			*ug/l*	*25.0*		*86*	*80-120*			
Matrix Spike Analyzed: 03/02/2008 (8C02011-MS1)						**Source: IRB2643-02**					
Acetone	129	50	22	ug/l	125	ND	103	20-150			
tert-Amyl Methyl Ether (TAME)	146	10	1.6	ug/l	125	ND	117	60-140			
Benzene	141	2.5	1.4	ug/l	125	ND	113	65-125			
Bromobenzene	140	5.0	1.4	ug/l	125	ND	112	70-125			
Bromochloromethane	136	5.0	1.6	ug/l	125	ND	109	65-135			
Bromodichloromethane	152	5.0	1.5	ug/l	125	ND	121	70-135			
Bromoform	108	5.0	2.0	ug/l	125	ND	86	55-135			
Bromomethane	132	5.0	2.1	ug/l	125	ND	106	55-145			
tert-Butanol (TBA)	754	120	24	ug/l	625	ND	121	65-140			
2-Butanone (MEK)	125	25	24	ug/l	125	ND	100	30-145			
tert-Butylbenzene	145	5.0	1.1	ug/l	125	ND	116	65-130			
n-Butylbenzene	140	5.0	1.8	ug/l	125	ND	112	65-135			
sec-Butylbenzene	139	5.0	1.2	ug/l	125	ND	111	70-125			
Carbon Disulfide	151	5.0	2.4	ug/l	125	ND	121	40-140			
Carbon tetrachloride	123	2.5	1.4	ug/l	125	ND	98	65-140			
Chlorobenzene	133	5.0	1.8	ug/l	125	ND	106	75-125			
Chloroethane	130	10	2.0	ug/l	125	ND	104	55-140			
Chloroform	173	5.0	1.6	ug/l	125	40.9	106	65-135			
Chloromethane	137	10	2.0	ug/l	125	ND	110	45-145			
2-Chlorotoluene	138	5.0	1.4	ug/l	125	ND	110	65-135			
4-Chlorotoluene	143	5.0	1.4	ug/l	125	ND	114	70-135			

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Avocet Environmental Inc.
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Attention: Michael Rendina

Project ID: Boeing C-6 Torrance (02/26/08)
1155.003
Report Number: IRB2567

Sampled: 02/26/08
Received: 02/26/08

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8C02011 Extracted: 03/02/08											
Matrix Spike Analyzed: 03/02/2008 (8C02011-MS1)						**Source: IRB2643-02**					
1,2-Dibromo-3-chloropropane	129	10	4.8	ug/l	125	ND	103	45-145			
Dibromochloromethane	134	5.0	1.4	ug/l	125	ND	107	65-140			
1,2-Dibromoethane (EDB)	135	5.0	2.0	ug/l	125	ND	108	70-130			
1,3-Dichlorobenzene	138	5.0	1.8	ug/l	125	ND	111	75-125			
1,4-Dichlorobenzene	130	5.0	1.8	ug/l	125	ND	104	75-125			
1,2-Dichlorobenzene	141	5.0	1.6	ug/l	125	ND	113	75-125			
Dichlorodifluoromethane	161	5.0	1.3	ug/l	125	3.15	126	25-155			
1,1-Dichloroethane	141	5.0	1.4	ug/l	125	5.50	108	65-130			
1,2-Dichloroethane	126	2.5	1.4	ug/l	125	ND	101	60-140			
1,1-Dichloroethene	125	5.0	2.1	ug/l	125	ND	100	60-130			
trans-1,2-Dichloroethene	166	5.0	1.4	ug/l	125	15.3	121	65-130			
2,2-Dichloropropane	133	5.0	1.7	ug/l	125	ND	106	60-145			
1,2-Dichloropropane	145	5.0	1.8	ug/l	125	ND	116	65-130			
cis-1,3-Dichloropropene	117	2.5	1.1	ug/l	125	ND	94	70-130			
1,1-Dichloropropene	136	5.0	1.4	ug/l	125	ND	109	70-135			
trans-1,3-Dichloropropene	121	2.5	1.6	ug/l	125	ND	97	65-135			
Di-isopropyl Ether (DIPE)	157	10	1.2	ug/l	125	ND	126	60-140			
Ethylbenzene	139	5.0	1.2	ug/l	125	ND	112	65-130			
Ethyl tert-Butyl Ether (ETBE)	148	10	1.4	ug/l	125	ND	119	60-135			
Hexachlorobutadiene	125	5.0	1.9	ug/l	125	ND	100	60-135			
2-Hexanone	126	30	13	ug/l	125	ND	101	25-140			
Isopropylbenzene	163	5.0	1.2	ug/l	125	ND	131	70-135			
p-Isopropyltoluene	132	5.0	1.4	ug/l	125	ND	105	65-130			
Methyl-tert-butyl Ether (MTBE)	138	5.0	1.6	ug/l	125	ND	110	55-145			
Methylene chloride	126	5.0	4.8	ug/l	125	ND	101	50-135			
4-Methyl-2-pentanone (MIBK)	142	25	18	ug/l	125	ND	114	40-140			
n-Propylbenzene	149	5.0	1.4	ug/l	125	ND	120	70-135			
Styrene	124	5.0	0.80	ug/l	125	ND	99	50-145			
1,1,1,2-Tetrachloroethane	130	5.0	1.4	ug/l	125	ND	104	65-140			
1,1,2,2-Tetrachloroethane	145	5.0	1.2	ug/l	125	ND	116	55-135			
Tetrachloroethene	141	5.0	1.6	ug/l	125	11.3	104	65-130			
Toluene	142	5.0	1.8	ug/l	125	ND	114	70-125			
1,2,3-Trichlorobenzene	139	5.0	1.5	ug/l	125	ND	111	60-135			
1,2,4-Trichlorobenzene	142	5.0	2.4	ug/l	125	ND	113	65-135			
1,1,1-Trichloroethane	128	5.0	1.5	ug/l	125	ND	102	65-140			

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BOE-C6-0188334

Avocet Environmental Inc.
16 Technology Drive, Suite 154
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Attention: Michael Rendina

Project ID: Boeing C-6 Torrance (02/26/08)
1155.003
Report Number: IRB2567

Sampled: 02/26/08
Received: 02/26/08

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Batch: 8C02011 Extracted: 03/02/08

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Matrix Spike Analyzed: 03/02/2008 (8C02011-MS1)						**Source: IRB2643-02**					
1,1,2-Trichloroethane	142	5.0	1.5	ug/l	125	ND	114	65-130			
Trichlorofluoromethane	132	10	1.7	ug/l	125	3.75	102	60-145			
1,2,3-Trichloropropane	139	5.0	2.0	ug/l	125	ND	111	55-135			
1,3,5-Trimethylbenzene	139	5.0	1.3	ug/l	125	ND	111	70-130			
1,2,4-Trimethylbenzene	140	5.0	1.2	ug/l	125	ND	112	55-135			
Vinyl acetate	170	30	5.0	ug/l	125	ND	136	40-150			
Vinyl chloride	135	2.5	1.5	ug/l	125	ND	108	45-140			
o-Xylene	133	2.5	1.5	ug/l	125	ND	107	65-125			
m,p-Xylenes	271	5.0	3.0	ug/l	250	ND	109	65-130			
Surrogate: Dibromofluoromethane	*112*			*ug/l*	*125*		*90*	*80-120*			
Surrogate: Toluene-d8	*116*			*ug/l*	*125*		*92*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*109*			*ug/l*	*125*		*87*	*80-120*			
Matrix Spike Dup Analyzed: 03/02/2008 (8C02011-MSD1)						**Source: IRB2643-02**					
Acetone	136	50	22	ug/l	125	ND	109	20-150	5	35	
tert-Amyl Methyl Ether (TAME)	149	10	1.6	ug/l	125	ND	119	60-140	2	30	
Benzene	137	2.5	1.4	ug/l	125	ND	109	65-125	3	20	
Bromobenzene	138	5.0	1.4	ug/l	125	ND	110	70-125	2	20	
Bromochloromethane	134	5.0	1.6	ug/l	125	ND	107	65-135	1	25	
Bromodichloromethane	147	5.0	1.5	ug/l	125	ND	117	70-135	3	20	
Bromoform	109	5.0	2.0	ug/l	125	ND	87	55-135	1	25	
Bromomethane	128	5.0	2.1	ug/l	125	ND	102	55-145	4	25	
tert-Butanol (TBA)	726	120	24	ug/l	625	ND	116	65-140	4	25	
2-Butanone (MEK)	147	25	24	ug/l	125	ND	117	30-145	16	40	
tert-Butylbenzene	140	5.0	1.1	ug/l	125	ND	112	65-130	3	20	
n-Butylbenzene	140	5.0	1.8	ug/l	125	ND	112	65-135	0	20	
sec-Butylbenzene	137	5.0	1.2	ug/l	125	ND	109	70-125	2	20	
Carbon Disulfide	144	5.0	2.4	ug/l	125	ND	115	40-140	5	20	
Carbon tetrachloride	116	2.5	1.4	ug/l	125	ND	93	65-140	6	25	
Chlorobenzene	130	5.0	1.8	ug/l	125	ND	104	75-125	2	20	
Chloroethane	127	10	2.0	ug/l	125	ND	102	55-140	2	25	
Chloroform	167	5.0	1.6	ug/l	125	40.9	101	65-135	4	20	
Chloromethane	141	10	2.0	ug/l	125	ND	113	45-145	2	25	
2-Chlorotoluene	135	5.0	1.4	ug/l	125	ND	108	65-135	2	20	
4-Chlorotoluene	143	5.0	1.4	ug/l	125	ND	114	70-135	0	20	
1,2-Dibromo-3-chloropropane	138	10	4.8	ug/l	125	ND	110	45-145	7	30	

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Avocet Environmental Inc.
16 Technology Drive, Suite 154
Irvine, CA 92618
Attention: Michael Rendina

Project ID: Boeing C-6 Torrance (02/26/08)
1155.003
Report Number: IRB2567

Sampled: 02/26/08
Received: 02/26/08

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Batch: 8C02011 Extracted: 03/02/08

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Matrix Spike Dup Analyzed: 03/02/2008 (8C02011-MSD1)						**Source: IRB2643-02**					
Dibromochloromethane	136	5.0	1.4	ug/l	125	ND	109	65-140	2	25	
1,2-Dibromoethane (EDB)	136	5.0	2.0	ug/l	125	ND	109	70-130	1	25	
1,3-Dichlorobenzene	138	5.0	1.8	ug/l	125	ND	110	75-125	1	20	
1,4-Dichlorobenzene	126	5.0	1.8	ug/l	125	ND	101	75-125	3	20	
1,2-Dichlorobenzene	140	5.0	1.6	ug/l	125	ND	112	75-125	1	20	
Dichlorodifluoromethane	159	5.0	1.3	ug/l	125	3.15	125	25-155	1	30	
1,1-Dichloroethane	135	5.0	1.4	ug/l	125	5.50	103	65-130	4	20	
1,2-Dichloroethane	122	2.5	1.4	ug/l	125	ND	97	60-140	4	20	
1,1-Dichloroethene	125	5.0	2.1	ug/l	125	ND	100	60-130	0	20	
trans-1,2-Dichloroethene	163	5.0	1.4	ug/l	125	15.3	118	65-130	2	20	
2,2-Dichloropropane	127	5.0	1.7	ug/l	125	ND	102	60-145	4	25	
1,2-Dichloropropane	144	5.0	1.8	ug/l	125	ND	115	65-130	1	20	
cis-1,3-Dichloropropene	119	2.5	1.1	ug/l	125	ND	96	70-130	2	20	
1,1-Dichloropropene	133	5.0	1.4	ug/l	125	ND	106	70-135	3	20	
trans-1,3-Dichloropropene	121	2.5	1.6	ug/l	125	ND	97	65-135	0	25	
Di-isopropyl Ether (DIPE)	152	10	1.2	ug/l	125	ND	122	60-140	3	25	
Ethylbenzene	136	5.0	1.2	ug/l	125	ND	109	65-130	3	20	
Ethyl tert-Butyl Ether (ETBE)	142	10	1.4	ug/l	125	ND	114	60-135	4	25	
Hexachlorobutadiene	126	5.0	1.9	ug/l	125	ND	101	60-135	1	20	
2-Hexanone	141	30	13	ug/l	125	ND	113	25-140	11	35	
Isopropylbenzene	156	5.0	1.2	ug/l	125	ND	124	70-135	5	20	
p-Isopropyltoluene	128	5.0	1.4	ug/l	125	ND	103	65-130	3	20	
Methyl-tert-butyl Ether (MTBE)	142	5.0	1.6	ug/l	125	ND	113	55-145	3	25	
Methylene chloride	122	5.0	4.8	ug/l	125	ND	98	50-135	3	20	
4-Methyl-2-pentanone (MIBK)	145	25	18	ug/l	125	ND	116	40-140	2	35	
n-Propylbenzene	150	5.0	1.4	ug/l	125	ND	120	70-135	0	20	
Styrene	120	5.0	0.80	ug/l	125	ND	96	50-145	3	30	
1,1,1,2-Tetrachloroethane	127	5.0	1.4	ug/l	125	ND	102	65-140	2	20	
1,1,2,2-Tetrachloroethane	148	5.0	1.2	ug/l	125	ND	119	55-135	2	30	
Tetrachloroethene	138	5.0	1.6	ug/l	125	11.3	101	65-130	2	20	
Toluene	138	5.0	1.8	ug/l	125	ND	110	70-125	3	20	
1,2,3-Trichlorobenzene	141	5.0	1.5	ug/l	125	ND	113	60-135	2	20	
1,2,4-Trichlorobenzene	140	5.0	2.4	ug/l	125	ND	112	65-135	1	20	
1,1,1-Trichloroethane	123	5.0	1.5	ug/l	125	ND	98	65-140	4	20	
1,1,2-Trichloroethane	143	5.0	1.5	ug/l	125	ND	115	65-130	1	25	

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Avocet Environmental Inc.
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Attention: Michael Rendina

Project ID: Boeing C-6 Torrance (02/26/08)
1155.003
Report Number: IRB2567

Sampled: 02/26/08
Received: 02/26/08

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8C02011 Extracted: 03/02/08											
Matrix Spike Dup Analyzed: 03/02/2008 (8C02011-MSD1)						**Source: IRB2643-02**					
Trichlorofluoromethane	140	10	1.7	ug/l	125	3.75	109	60-145	6	25	
1,2,3-Trichloropropane	143	5.0	2.0	ug/l	125	ND	115	55-135	3	30	
1,3,5-Trimethylbenzene	138	5.0	1.3	ug/l	125	ND	111	70-130	1	20	
1,2,4-Trimethylbenzene	137	5.0	1.2	ug/l	125	ND	109	55-135	3	25	
Vinyl acetate	168	30	5.0	ug/l	125	ND	134	40-150	2	30	
Vinyl chloride	133	2.5	1.5	ug/l	125	ND	106	45-140	2	30	
o-Xylene	126	2.5	1.5	ug/l	125	ND	101	65-125	5	20	
m,p-Xylenes	273	5.0	3.0	ug/l	250	ND	109	65-130	1	25	
Surrogate: Dibromofluoromethane	*110*			*ug/l*	*125*		*88*	*80-120*			
Surrogate: Toluene-d8	*115*			*ug/l*	*125*		*92*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*111*			*ug/l*	*125*		*89*	*80-120*			
Batch: 8C03005 Extracted: 03/03/08											
Blank Analyzed: 03/03/2008 (8C03005-BLK1)											
Vinyl chloride	ND	0.50	0.30	ug/l							
Surrogate: Dibromofluoromethane	*23.6*			*ug/l*	*25.0*		*94*	*80-120*			
Surrogate: Toluene-d8	*23.9*			*ug/l*	*25.0*		*96*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*23.2*			*ug/l*	*25.0*		*93*	*80-120*			
LCS Analyzed: 03/03/2008 (8C03005-BS1)											
Vinyl chloride	23.1	0.50	0.30	ug/l	25.0		92	55-135			
Surrogate: Dibromofluoromethane	*24.0*			*ug/l*	*25.0*		*96*	*80-120*			
Surrogate: Toluene-d8	*24.4*			*ug/l*	*25.0*		*98*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*24.8*			*ug/l*	*25.0*		*99*	*80-120*			
Matrix Spike Analyzed: 03/03/2008 (8C03005-MS1)						**Source: IRB2907-05**					
Vinyl chloride	23.9	0.50	0.30	ug/l	25.0	ND	95	45-140			
Surrogate: Dibromofluoromethane	*24.2*			*ug/l*	*25.0*		*97*	*80-120*			
Surrogate: Toluene-d8	*24.5*			*ug/l*	*25.0*		*98*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*24.8*			*ug/l*	*25.0*		*99*	*80-120*			

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Project ID: Boeing C-6 Torrance (02/26/08)
1155.003
Report Number: IRB2567

Sampled: 02/26/08
Received: 02/26/08

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8C03005 Extracted: 03/03/08											
Matrix Spike Dup Analyzed: 03/03/2008 (8C03005-MSD1)						**Source: IRB2907-05**					
Vinyl chloride	24.2	0.50	0.30	ug/l	25.0	ND	97	45-140	1	30	
Surrogate: Dibromofluoromethane	*24.0*			*ug/l*	*25.0*		*96*	*80-120*			
Surrogate: Toluene-d8	*24.3*			*ug/l*	*25.0*		*97*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*24.7*			*ug/l*	*25.0*		*99*	*80-120*			
Batch: 8C05011 Extracted: 03/05/08											
Blank Analyzed: 03/05/2008 (8C05011-BLK1)											
Di-isopropyl Ether (DIPE)	ND	2.0	0.25	ug/l							
Surrogate: Dibromofluoromethane	*24.1*			*ug/l*	*25.0*		*96*	*80-120*			
Surrogate: Toluene-d8	*23.5*			*ug/l*	*25.0*		*94*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*23.6*			*ug/l*	*25.0*		*94*	*80-120*			
LCS Analyzed: 03/05/2008 (8C05011-BS1)											
Di-isopropyl Ether (DIPE)	24.4	2.0	0.25	ug/l	25.0		98	60-135			
Surrogate: Dibromofluoromethane	*24.2*			*ug/l*	*25.0*		*97*	*80-120*			
Surrogate: Toluene-d8	*23.6*			*ug/l*	*25.0*		*94*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*24.2*			*ug/l*	*25.0*		*97*	*80-120*			
Matrix Spike Analyzed: 03/05/2008 (8C05011-MS1)						**Source: IRC0064-03**					
Di-isopropyl Ether (DIPE)	24.5	2.0	0.25	ug/l	25.0	ND	98	60-140			
Surrogate: Dibromofluoromethane	*24.3*			*ug/l*	*25.0*		*97*	*80-120*			
Surrogate: Toluene-d8	*23.8*			*ug/l*	*25.0*		*95*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*24.4*			*ug/l*	*25.0*		*98*	*80-120*			
Matrix Spike Dup Analyzed: 03/05/2008 (8C05011-MSD1)						**Source: IRC0064-03**					
Di-isopropyl Ether (DIPE)	24.7	2.0	0.25	ug/l	25.0	ND	99	60-140	1	25	
Surrogate: Dibromofluoromethane	*24.3*			*ug/l*	*25.0*		*97*	*80-120*			
Surrogate: Toluene-d8	*23.5*			*ug/l*	*25.0*		*94*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*24.2*			*ug/l*	*25.0*		*97*	*80-120*			

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BOE-C6-0188336

Avocet Environmental Inc.
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Attention: Michael Rendina

Project ID: Boeing C-6 Torrance (02/26/08)
1155.003
Report Number: IRB2567

Sampled: 02/26/08
Received: 02/26/08

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8C06006 Extracted: 03/06/08											
Blank Analyzed: 03/06/2008 (8C06006-BLK1)											
Acetone	ND	10	4.5	ug/l							
tert-Amyl Methyl Ether (TAME)	ND	2.0	0.33	ug/l							
Benzene	ND	0.50	0.28	ug/l							
Bromobenzene	ND	1.0	0.27	ug/l							
Bromochloromethane	ND	1.0	0.40	ug/l							
Bromodichloromethane	ND	1.0	0.30	ug/l							
Bromoform	ND	1.0	0.40	ug/l							
Bromomethane	ND	1.0	0.42	ug/l							
tert-Butanol (TBA)	ND	25	6.5	ug/l							
2-Butanone (MEK)	ND	5.0	4.7	ug/l							
tert-Butylbenzene	ND	1.0	0.22	ug/l							
n-Butylbenzene	ND	1.0	0.37	ug/l							
sec-Butylbenzene	ND	1.0	0.25	ug/l							
Carbon Disulfide	ND	1.0	0.48	ug/l							
Carbon tetrachloride	ND	0.50	0.28	ug/l							
Chlorobenzene	ND	1.0	0.36	ug/l							
Chloroethane	ND	2.0	0.40	ug/l							
Chloroform	ND	1.0	0.33	ug/l							
Chloromethane	ND	2.0	0.40	ug/l							
2-Chlorotoluene	ND	1.0	0.28	ug/l							
4-Chlorotoluene	ND	1.0	0.29	ug/l							
1,2-Dibromo-3-chloropropane	ND	2.0	0.97	ug/l							
Dibromochloromethane	ND	1.0	0.40	ug/l							
1,2-Dibromoethane (EDB)	ND	1.0	0.40	ug/l							
1,3-Dichlorobenzene	ND	1.0	0.35	ug/l							
1,4-Dichlorobenzene	ND	1.0	0.37	ug/l							
1,2-Dichlorobenzene	ND	1.0	0.32	ug/l							
Dichlorodifluoromethane	ND	1.0	0.26	ug/l							
1,1-Dichloroethane	ND	1.0	0.40	ug/l							
1,2-Dichloroethane	ND	0.50	0.28	ug/l							
cis-1,2-Dichloroethene	ND	1.0	0.32	ug/l							
1,1-Dichloroethene	ND	1.0	0.42	ug/l							
trans-1,2-Dichloroethene	ND	1.0	0.30	ug/l							
2,2-Dichloropropane	ND	1.0	0.34	ug/l							
1,2-Dichloropropane	ND	1.0	0.35	ug/l							

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1155.003
Report Number: IRB2567

Sampled: 02/26/08
Received: 02/26/08

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8C06006 Extracted: 03/06/08											
Blank Analyzed: 03/06/2008 (8C06006-BLK1)											
cis-1,3-Dichloropropene	ND	0.50	0.22	ug/l							
1,1-Dichloropropene	ND	1.0	0.28	ug/l							
trans-1,3-Dichloropropene	ND	0.50	0.32	ug/l							
Di-isopropyl Ether (DIPE)	ND	2.0	0.25	ug/l							
Ethylbenzene	ND	1.0	0.25	ug/l							
Ethyl tert-Butyl Ether (ETBE)	ND	2.0	0.28	ug/l							
Hexachlorobutadiene	ND	1.0	0.38	ug/l							
2-Hexanone	ND	6.0	2.6	ug/l							
Iodomethane	ND	2.0	1.0	ug/l							
Isopropylbenzene	ND	1.0	0.25	ug/l							
p-Isopropyltoluene	ND	1.0	0.28	ug/l							
Methyl-tert-butyl Ether (MTBE)	ND	1.0	0.32	ug/l							
Methylene chloride	ND	1.0	0.95	ug/l							
4-Methyl-2-pentanone (MIBK)	ND	5.0	3.5	ug/l							
n-Propylbenzene	ND	1.0	0.27	ug/l							
Styrene	ND	1.0	0.20	ug/l							
1,1,1,2-Tetrachloroethane	ND	1.0	0.27	ug/l							
1,1,2,2-Tetrachloroethane	ND	1.0	0.30	ug/l							
Tetrachloroethene	ND	1.0	0.32	ug/l							
Tetrahydrofuran (THF)	ND	10	3.5	ug/l							
Toluene	ND	1.0	0.36	ug/l							
1,2,3-Trichlorobenzene	ND	1.0	0.30	ug/l							
1,2,4-Trichlorobenzene	ND	1.0	0.48	ug/l							
1,1,1-Trichloroethane	ND	1.0	0.30	ug/l							
1,1,2-Trichloroethane	ND	1.0	0.30	ug/l							
Trichloroethene	ND	1.0	0.26	ug/l							
Trichlorofluoromethane	ND	2.0	0.34	ug/l							
1,2,3-Trichloropropane	ND	1.0	0.40	ug/l							
1,3,5-Trimethylbenzene	ND	1.0	0.26	ug/l							
1,2,4-Trimethylbenzene	ND	1.0	0.23	ug/l							
Vinyl acetate	ND	6.0	1.0	ug/l							
Vinyl chloride	ND	0.50	0.40	ug/l							
o-Xylene	ND	0.50	0.30	ug/l							
Xylenes, Total	ND	1.0	0.90	ug/l							
m,p-Xylenes	ND	1.0	0.60	ug/l							

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Project Manager

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BOE-C6-0188337

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
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Avocet Environmental Inc.
16 Technology Drive, Suite 154
Irvine, CA 92618
Attention: Michael Rendina

Project ID: Boeing C-6 Torrance (02/26/08)
1155.003
Report Number: IRB2567

Sampled: 02/26/08
Received: 02/26/08

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8C06006 Extracted: 03/06/08											
Blank Analyzed: 03/06/2008 (8C06006-BLK1)											
Surrogate: Dibromofluoromethane	*23.4*			*ug/l*	*25.0*		*94*	*80-120*			
Surrogate: Toluene-d8	*22.8*			*ug/l*	*25.0*		*91*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*22.0*			*ug/l*	*25.0*		*88*	*80-120*			
LCS Analyzed: 03/06/2008 (8C06006-BS1)											
Acetone	19.7	10	4.5	ug/l	25.0		79	30-140			
tert-Amyl Methyl Ether (TAME)	26.3	2.0	0.33	ug/l	25.0		105	60-135			
Benzene	23.8	0.50	0.28	ug/l	25.0		95	70-120			
Bromobenzene	25.7	1.0	0.27	ug/l	25.0		103	75-120			
Bromochloromethane	23.7	1.0	0.40	ug/l	25.0		95	70-130			
Bromodichloromethane	24.8	1.0	0.30	ug/l	25.0		99	70-135			
Bromoform	23.6	1.0	0.40	ug/l	25.0		95	55-130			
Bromomethane	22.4	1.0	0.42	ug/l	25.0		89	65-140			
tert-Butanol (TBA)	127	25	6.5	ug/l	125		101	70-135			
2-Butanone (MEK)	21.6	5.0	4.7	ug/l	25.0		86	40-140			
tert-Butylbenzene	27.0	1.0	0.22	ug/l	25.0		108	70-125			
n-Butylbenzene	27.1	1.0	0.37	ug/l	25.0		109	70-130			
sec-Butylbenzene	24.8	1.0	0.25	ug/l	25.0		99	70-125			
Carbon Disulfide	21.0	1.0	0.48	ug/l	25.0		84	50-130			
Carbon tetrachloride	23.5	0.50	0.28	ug/l	25.0		94	65-140			
Chlorobenzene	24.1	1.0	0.36	ug/l	25.0		96	75-120			
Chloroethane	22.9	2.0	0.40	ug/l	25.0		91	60-140			
Chloroform	23.2	1.0	0.33	ug/l	25.0		93	70-130			
Chloromethane	21.8	2.0	0.40	ug/l	25.0		87	50-140			
2-Chlorotoluene	26.4	1.0	0.28	ug/l	25.0		106	70-125			
4-Chlorotoluene	27.4	1.0	0.29	ug/l	25.0		110	75-125			
1,2-Dibromo-3-chloropropane	20.5	2.0	0.97	ug/l	25.0		82	50-135			
Dibromochloromethane	23.8	1.0	0.40	ug/l	25.0		95	70-140			
1,2-Dibromoethane (EDB)	23.4	1.0	0.40	ug/l	25.0		93	75-125			
1,3-Dichlorobenzene	24.7	1.0	0.35	ug/l	25.0		99	75-120			
1,4-Dichlorobenzene	22.8	1.0	0.37	ug/l	25.0		91	75-120			
1,2-Dichlorobenzene	25.2	1.0	0.32	ug/l	25.0		101	75-120			
Dichlorodifluoromethane	22.7	1.0	0.26	ug/l	25.0		91	35-155			
1,1-Dichloroethane	21.4	1.0	0.40	ug/l	25.0		86	70-125			
1,2-Dichloroethane	23.3	0.50	0.28	ug/l	25.0		93	60-140			
cis-1,2-Dichloroethene	22.8	1.0	0.32	ug/l	25.0		91	70-125			

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Project Manager

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Avocet Environmental Inc.
16 Technology Drive, Suite 154
Irvine, CA 92618
Attention: Michael Rendina

Project ID: Boeing C-6 Torrance (02/26/08)
1155.003
Report Number: IRB2567

Sampled: 02/26/08
Received: 02/26/08

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8C06006 Extracted: 03/06/08											
LCS Analyzed: 03/06/2008 (8C06006-BS1)											
1,1-Dichloroethene	17.9	1.0	0.42	ug/l	25.0		71	70-125			
trans-1,2-Dichloroethene	22.3	1.0	0.30	ug/l	25.0		89	70-125			
2,2-Dichloropropane	23.8	1.0	0.34	ug/l	25.0		95	65-140			
1,2-Dichloropropane	24.7	1.0	0.35	ug/l	25.0		99	70-125			
cis-1,3-Dichloropropene	23.0	0.50	0.22	ug/l	25.0		92	75-125			
1,1-Dichloropropene	23.9	1.0	0.28	ug/l	25.0		96	75-130			
trans-1,3-Dichloropropene	24.6	0.50	0.32	ug/l	25.0		99	70-125			
Di-isopropyl Ether (DIPE)	25.5	2.0	0.25	ug/l	25.0		102	60-135			
Ethylbenzene	25.5	1.0	0.25	ug/l	25.0		102	75-125			
Ethyl tert-Butyl Ether (ETBE)	24.8	2.0	0.28	ug/l	25.0		99	65-135			
Hexachlorobutadiene	23.6	1.0	0.38	ug/l	25.0		94	65-135			
2-Hexanone	24.2	6.0	2.6	ug/l	25.0		97	45-140			
Isopropylbenzene	29.8	1.0	0.25	ug/l	25.0		119	75-130			
p-Isopropyltoluene	24.4	1.0	0.28	ug/l	25.0		97	75-125			
Methyl-tert-butyl Ether (MTBE)	24.5	1.0	0.32	ug/l	25.0		98	60-135			
Methylene chloride	20.5	1.0	0.95	ug/l	25.0		82	55-130			
4-Methyl-2-pentanone (MIBK)	24.1	5.0	3.5	ug/l	25.0		96	45-140			
n-Propylbenzene	27.7	1.0	0.27	ug/l	25.0		111	75-130			
Styrene	26.6	1.0	0.20	ug/l	25.0		106	75-130			
1,1,1,2-Tetrachloroethane	23.5	1.0	0.27	ug/l	25.0		94	70-130			
1,1,2,2-Tetrachloroethane	23.6	1.0	0.30	ug/l	25.0		94	55-130			
Tetrachloroethene	23.7	1.0	0.32	ug/l	25.0		95	70-125			
Toluene	25.8	1.0	0.36	ug/l	25.0		103	70-120			
1,2,3-Trichlorobenzene	25.3	1.0	0.30	ug/l	25.0		101	65-125			
1,2,4-Trichlorobenzene	25.8	1.0	0.48	ug/l	25.0		103	70-135			
1,1,1-Trichloroethane	22.4	1.0	0.30	ug/l	25.0		90	65-135			
1,1,2-Trichloroethane	24.3	1.0	0.30	ug/l	25.0		97	70-125			
Trichloroethene	24.1	1.0	0.26	ug/l	25.0		96	70-125			
Trichlorofluoromethane	23.5	2.0	0.34	ug/l	25.0		94	65-145			
1,2,3-Trichloropropane	24.7	1.0	0.40	ug/l	25.0		99	60-130			
1,3,5-Trimethylbenzene	25.9	1.0	0.26	ug/l	25.0		104	75-125			
1,2,4-Trimethylbenzene	26.0	1.0	0.23	ug/l	25.0		104	75-125			
Vinyl acetate	25.6	6.0	1.0	ug/l	25.0		103	45-145			
Vinyl chloride	22.7	0.50	0.40	ug/l	25.0		91	55-135			
o-Xylene	25.6	0.50	0.30	ug/l	25.0		102	75-125			

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Project Manager

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BOE-C6-0188338

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Avocet Environmental Inc.
16 Technology Drive, Suite 154
Irvine, CA 92618
Attention: Michael Rendina

Project ID: Boeing C-6 Torrance (02/26/08)
1155.003
Report Number: IRB2567

Sampled: 02/26/08
Received: 02/26/08

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8C06006 Extracted: 03/06/08											
LCS Analyzed: 03/06/2008 (8C06006-BS1)											
m,p-Xylenes	50.9	1.0	0.60	ug/l	50.0		102	75-125			
Surrogate: Dibromofluoromethane	*22.1*			*ug/l*	*25.0*		*88*	*80-120*			
Surrogate: Toluene-d8	*23.2*			*ug/l*	*25.0*		*93*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*23.1*			*ug/l*	*25.0*		*93*	*80-120*			
Matrix Spike Analyzed: 03/06/2008 (8C06006-MS1)						**Source: IRB2807-03**					
Acetone	29.2	10	4.5	ug/l	25.0	6.75	90	20-150			
tert-Amyl Methyl Ether (TAME)	27.8	2.0	0.33	ug/l	25.0	ND	111	60-140			
Benzene	24.8	0.50	0.28	ug/l	25.0	ND	99	65-125			
Bromobenzene	25.1	1.0	0.27	ug/l	25.0	ND	100	70-125			
Bromochloromethane	23.8	1.0	0.40	ug/l	25.0	ND	95	65-135			
Bromodichloromethane	26.4	1.0	0.30	ug/l	25.0	ND	106	70-135			
Bromoform	24.6	1.0	0.40	ug/l	25.0	ND	98	55-135			
Bromomethane	16.2	1.0	0.42	ug/l	25.0	ND	65	55-145			
tert-Butanol (TBA)	130	25	6.5	ug/l	125	ND	104	65-140			
2-Butanone (MEK)	31.8	5.0	4.7	ug/l	25.0	ND	127	30-145			
tert-Butylbenzene	26.3	1.0	0.22	ug/l	25.0	ND	105	65-130			
n-Butylbenzene	26.6	1.0	0.37	ug/l	25.0	ND	106	65-135			
sec-Butylbenzene	26.1	1.0	0.25	ug/l	25.0	ND	104	70-125			
Carbon Disulfide	31.2	1.0	0.48	ug/l	25.0	7.25	96	40-140			
Carbon tetrachloride	23.3	0.50	0.28	ug/l	25.0	ND	93	65-140			
Chlorobenzene	24.4	1.0	0.36	ug/l	25.0	ND	98	75-125			
Chloroethane	25.4	2.0	0.40	ug/l	25.0	ND	101	55-140			
Chloroform	24.5	1.0	0.33	ug/l	25.0	ND	98	65-135			
Chloromethane	22.3	2.0	0.40	ug/l	25.0	ND	89	45-145			
2-Chlorotoluene	25.9	1.0	0.28	ug/l	25.0	ND	104	65-135			
4-Chlorotoluene	26.9	1.0	0.29	ug/l	25.0	ND	108	70-135			
1,2-Dibromo-3-chloropropane	22.1	2.0	0.97	ug/l	25.0	ND	88	45-145			
Dibromochloromethane	24.3	1.0	0.40	ug/l	25.0	ND	97	65-140			
1,2-Dibromoethane (EDB)	24.6	1.0	0.40	ug/l	25.0	ND	99	70-130			
1,3-Dichlorobenzene	25.0	1.0	0.35	ug/l	25.0	ND	100	75-125			
1,4-Dichlorobenzene	22.7	1.0	0.37	ug/l	25.0	ND	91	75-125			
1,2-Dichlorobenzene	24.8	1.0	0.32	ug/l	25.0	ND	99	75-125			
Dichlorodifluoromethane	25.0	1.0	0.26	ug/l	25.0	ND	100	25-155			
1,1-Dichloroethane	23.8	1.0	0.40	ug/l	25.0	ND	95	65-130			
1,2-Dichloroethane	24.0	0.50	0.28	ug/l	25.0	ND	96	60-140			

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Project Manager

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Avocet Environmental Inc.
16 Technology Drive, Suite 154
Irvine, CA 92618
Attention: Michael Rendina

Project ID: Boeing C-6 Torrance (02/26/08)
1155.003
Report Number: IRB2567

Sampled: 02/26/08
Received: 02/26/08

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8C06006 Extracted: 03/06/08											
Matrix Spike Analyzed: 03/06/2008 (8C06006-MS1)						**Source: IRB2807-03**					
cis-1,2-Dichloroethene	38.9	1.0	0.32	ug/l	25.0	12.9	104	65-130			
1,1-Dichloroethene	19.6	1.0	0.42	ug/l	25.0	ND	78	60-130			
trans-1,2-Dichloroethene	24.0	1.0	0.30	ug/l	25.0	ND	96	65-130			
2,2-Dichloropropane	25.8	1.0	0.34	ug/l	25.0	ND	103	60-145			
1,2-Dichloropropane	25.4	1.0	0.35	ug/l	25.0	ND	101	65-130			
cis-1,3-Dichloropropene	22.7	0.50	0.22	ug/l	25.0	ND	91	70-130			
1,1-Dichloropropene	24.3	1.0	0.28	ug/l	25.0	ND	97	70-135			
trans-1,3-Dichloropropene	23.7	0.50	0.32	ug/l	25.0	ND	95	65-135			
Di-isopropyl Ether (DIPE)	26.9	2.0	0.25	ug/l	25.0	ND	108	60-140			
Ethylbenzene	26.4	1.0	0.25	ug/l	25.0	ND	106	65-130			
Ethyl tert-Butyl Ether (ETBE)	26.8	2.0	0.28	ug/l	25.0	ND	107	60-135			
Hexachlorobutadiene	23.6	1.0	0.38	ug/l	25.0	ND	94	60-135			
2-Hexanone	27.7	6.0	2.6	ug/l	25.0	ND	111	25-140			
Isopropylbenzene	29.8	1.0	0.25	ug/l	25.0	ND	119	70-135			
p-Isopropyltoluene	24.3	1.0	0.28	ug/l	25.0	ND	97	65-130			
Methyl-tert-butyl Ether (MTBE)	25.3	1.0	0.32	ug/l	25.0	ND	101	55-145			
Methylene chloride	21.5	1.0	0.95	ug/l	25.0	ND	86	50-135			
4-Methyl-2-pentanone (MIBK)	26.7	5.0	3.5	ug/l	25.0	ND	107	40-140			
n-Propylbenzene	27.5	1.0	0.27	ug/l	25.0	ND	110	70-135			
Styrene	25.0	1.0	0.20	ug/l	25.0	ND	100	50-145			
1,1,1,2-Tetrachloroethane	23.9	1.0	0.27	ug/l	25.0	ND	96	65-140			
1,1,2,2-Tetrachloroethane	24.7	1.0	0.30	ug/l	25.0	ND	99	55-135			
Tetrachloroethene	25.0	1.0	0.32	ug/l	25.0	ND	100	65-130			
Toluene	26.8	1.0	0.36	ug/l	25.0	0.390	106	70-125			
1,2,3-Trichlorobenzene	25.9	1.0	0.30	ug/l	25.0	ND	104	60-135			
1,2,4-Trichlorobenzene	25.3	1.0	0.48	ug/l	25.0	ND	101	65-135			
1,1,1-Trichloroethane	24.0	1.0	0.30	ug/l	25.0	ND	96	65-140			
1,1,2-Trichloroethane	25.8	1.0	0.30	ug/l	25.0	ND	103	65-130			
Trichloroethene	29.3	1.0	0.26	ug/l	25.0	4.22	100	65-125			
Trichlorofluoromethane	24.5	2.0	0.34	ug/l	25.0	ND	98	60-145			
1,2,3-Trichloropropane	23.8	1.0	0.40	ug/l	25.0	ND	95	55-135			
1,3,5-Trimethylbenzene	26.6	1.0	0.26	ug/l	25.0	ND	107	70-130			
1,2,4-Trimethylbenzene	26.3	1.0	0.23	ug/l	25.0	ND	105	55-135			
Vinyl acetate	26.4	6.0	1.0	ug/l	25.0	ND	106	40-150			
Vinyl chloride	24.3	0.50	0.40	ug/l	25.0	ND	97	45-140			

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Project Manager

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BOE-C6-0188339

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Avocet Environmental Inc.
16 Technology Drive, Suite 154
Irvine, CA 92618
Attention: Michael Rendina

Project ID: Boeing C-6 Torrance (02/26/08)
1155.003
Report Number: IRB2567

Sampled: 02/26/08
Received: 02/26/08

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8C06006 Extracted: 03/06/08											
Matrix Spike Analyzed: 03/06/2008 (8C06006-MS1)						**Source: IRB2807-03**					
o-Xylene	26.2	0.50	0.30	ug/l	25.0	ND	105	65-125			
m,p-Xylenes	52.1	1.0	0.60	ug/l	50.0	ND	104	65-130			
Surrogate: Dibromofluoromethane	*22.5*			*ug/l*	*25.0*		*90*	*80-120*			
Surrogate: Toluene-d8	*23.8*			*ug/l*	*25.0*		*95*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*22.5*			*ug/l*	*25.0*		*90*	*80-120*			
Matrix Spike Dup Analyzed: 03/06/2008 (8C06006-MSD1)						**Source: IRB2807-03**					
Acetone	26.5	10	4.5	ug/l	25.0	6.75	79	20-150	10	35	
tert-Amyl Methyl Ether (TAME)	25.4	2.0	0.33	ug/l	25.0	ND	102	60-140	9	30	
Benzene	23.8	0.50	0.28	ug/l	25.0	ND	95	65-125	4	20	
Bromobenzene	25.2	1.0	0.27	ug/l	25.0	ND	101	70-125	0	20	
Bromochloromethane	22.0	1.0	0.40	ug/l	25.0	ND	88	65-135	7	25	
Bromodichloromethane	24.8	1.0	0.30	ug/l	25.0	ND	99	70-135	6	20	
Bromoform	24.8	1.0	0.40	ug/l	25.0	ND	99	55-135	1	25	
Bromomethane	15.4	1.0	0.42	ug/l	25.0	ND	62	55-145	6	25	
tert-Butanol (TBA)	143	25	6.5	ug/l	125	ND	114	65-140	9	25	
2-Butanone (MEK)	28.6	5.0	4.7	ug/l	25.0	ND	115	30-145	10	40	
tert-Butylbenzene	26.8	1.0	0.22	ug/l	25.0	ND	107	65-130	2	20	
n-Butylbenzene	26.7	1.0	0.37	ug/l	25.0	ND	107	65-135	0	20	
sec-Butylbenzene	26.0	1.0	0.25	ug/l	25.0	ND	104	70-125	1	20	
Carbon Disulfide	29.0	1.0	0.48	ug/l	25.0	7.25	87	40-140	7	20	
Carbon tetrachloride	22.4	0.50	0.28	ug/l	25.0	ND	90	65-140	4	25	
Chlorobenzene	25.5	1.0	0.36	ug/l	25.0	ND	102	75-125	4	20	
Chloroethane	23.3	2.0	0.40	ug/l	25.0	ND	93	55-140	9	25	
Chloroform	22.1	1.0	0.33	ug/l	25.0	ND	88	65-135	10	20	
Chloromethane	22.1	2.0	0.40	ug/l	25.0	ND	88	45-145	1	25	
2-Chlorotoluene	26.0	1.0	0.28	ug/l	25.0	ND	104	65-135	1	20	
4-Chlorotoluene	27.1	1.0	0.29	ug/l	25.0	ND	108	70-135	1	20	
1,2-Dibromo-3-chloropropane	21.4	2.0	0.97	ug/l	25.0	ND	85	45-145	3	30	
Dibromochloromethane	24.5	1.0	0.40	ug/l	25.0	ND	98	65-140	1	25	
1,2-Dibromoethane (EDB)	24.6	1.0	0.40	ug/l	25.0	ND	98	70-130	0	25	
1,3-Dichlorobenzene	23.7	1.0	0.35	ug/l	25.0	ND	95	75-125	5	20	
1,4-Dichlorobenzene	22.2	1.0	0.37	ug/l	25.0	ND	89	75-125	2	20	
1,2-Dichlorobenzene	24.8	1.0	0.32	ug/l	25.0	ND	99	75-125	0	20	
Dichlorodifluoromethane	24.3	1.0	0.26	ug/l	25.0	ND	97	25-155	3	30	
1,1-Dichloroethane	21.2	1.0	0.40	ug/l	25.0	ND	85	65-130	12	20	

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Avocet Environmental Inc.
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Project ID: Boeing C-6 Torrance (02/26/08)
1155.003
Report Number: IRB2567

Sampled: 02/26/08
Received: 02/26/08

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8C06006 Extracted: 03/06/08											
Matrix Spike Dup Analyzed: 03/06/2008 (8C06006-MSD1)						**Source: IRB2807-03**					
1,2-Dichloroethane	23.4	0.50	0.28	ug/l	25.0	ND	93	60-140	3	20	
cis-1,2-Dichloroethene	36.1	1.0	0.32	ug/l	25.0	12.9	93	65-130	7	20	
1,1-Dichloroethene	18.4	1.0	0.42	ug/l	25.0	ND	74	60-130	6	20	
trans-1,2-Dichloroethene	23.8	1.0	0.30	ug/l	25.0	ND	95	65-130	1	20	
2,2-Dichloropropane	23.9	1.0	0.34	ug/l	25.0	ND	95	60-145	8	25	
1,2-Dichloropropane	24.0	1.0	0.35	ug/l	25.0	ND	96	65-130	5	20	
cis-1,3-Dichloropropene	21.5	0.50	0.22	ug/l	25.0	ND	86	70-130	5	20	
1,1-Dichloropropene	24.2	1.0	0.28	ug/l	25.0	ND	97	70-135	0	20	
trans-1,3-Dichloropropene	22.0	0.50	0.32	ug/l	25.0	ND	88	65-135	8	25	
Di-isopropyl Ether (DIPE)	24.2	2.0	0.25	ug/l	25.0	ND	97	60-140	11	25	
Ethylbenzene	27.3	1.0	0.25	ug/l	25.0	ND	109	65-130	3	20	
Ethyl tert-Butyl Ether (ETBE)	24.6	2.0	0.28	ug/l	25.0	ND	98	60-135	8	25	
Hexachlorobutadiene	23.8	1.0	0.38	ug/l	25.0	ND	95	60-135	1	20	
2-Hexanone	26.6	6.0	2.6	ug/l	25.0	ND	107	25-140	4	35	
Isopropylbenzene	29.3	1.0	0.25	ug/l	25.0	ND	117	70-135	2	20	
p-Isopropyltoluene	24.2	1.0	0.28	ug/l	25.0	ND	97	65-130	0	20	
Methyl-tert-butyl Ether (MTBE)	23.1	1.0	0.32	ug/l	25.0	ND	92	55-145	9	25	
Methylene chloride	20.5	1.0	0.95	ug/l	25.0	ND	82	50-135	4	20	
4-Methyl-2-pentanone (MIBK)	25.6	5.0	3.5	ug/l	25.0	ND	102	40-140	4	35	
n-Propylbenzene	28.4	1.0	0.27	ug/l	25.0	ND	114	70-135	3	20	
Styrene	26.0	1.0	0.20	ug/l	25.0	ND	104	50-145	4	30	
1,1,1,2-Tetrachloroethane	24.6	1.0	0.27	ug/l	25.0	ND	98	65-140	3	20	
1,1,2,2-Tetrachloroethane	23.8	1.0	0.30	ug/l	25.0	ND	95	55-135	4	30	
Tetrachloroethene	25.6	1.0	0.32	ug/l	25.0	ND	102	65-130	2	20	
Toluene	25.7	1.0	0.36	ug/l	25.0	0.390	101	70-125	4	20	
1,2,3-Trichlorobenzene	25.2	1.0	0.30	ug/l	25.0	ND	101	60-135	3	20	
1,2,4-Trichlorobenzene	26.5	1.0	0.48	ug/l	25.0	ND	106	65-135	5	20	
1,1,1-Trichloroethane	22.1	1.0	0.30	ug/l	25.0	ND	89	65-140	8	20	
1,1,2-Trichloroethane	24.3	1.0	0.30	ug/l	25.0	ND	97	65-130	6	25	
Trichloroethene	28.3	1.0	0.26	ug/l	25.0	4.22	96	65-125	3	20	
Trichlorofluoromethane	22.6	2.0	0.34	ug/l	25.0	ND	90	60-145	8	25	
1,2,3-Trichloropropane	22.3	1.0	0.40	ug/l	25.0	ND	89	55-135	6	30	
1,3,5-Trimethylbenzene	26.8	1.0	0.26	ug/l	25.0	ND	107	70-130	0	20	
1,2,4-Trimethylbenzene	26.1	1.0	0.23	ug/l	25.0	ND	104	55-135	1	25	
Vinyl acetate	24.1	6.0	1.0	ug/l	25.0	ND	97	40-150	9	30	

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BOE-C6-0188340

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Project ID: Boeing C-6 Torrance (02/26/08)
1155.003
Report Number: IRB2567

Sampled: 02/26/08
Received: 02/26/08

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8C06006 Extracted: 03/06/08											
Matrix Spike Dup Analyzed: 03/06/2008 (8C06006-MSD1)						**Source: IRB2807-03**					
Vinyl chloride	23.2	0.50	0.40	ug/l	25.0	ND	93	45-140	5	30	
o-Xylene	26.4	0.50	0.30	ug/l	25.0	ND	105	65-125	1	20	
m,p-Xylenes	56.7	1.0	0.60	ug/l	50.0	ND	113	65-130	8	25	
Surrogate: Dibromofluoromethane	*20.7*			*ug/l*	*25.0*		*83*	*80-120*			
Surrogate: Toluene-d8	*23.6*			*ug/l*	*25.0*		*94*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*24.1*			*ug/l*	*25.0*		*96*	*80-120*			

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Project ID: Boeing C-6 Torrance (02/26/08)
1155.003
Report Number: IRB2567

Sampled: 02/26/08
Received: 02/26/08

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8B26038 Extracted: 02/26/08											
Blank Analyzed: 02/26/2008 (8B26038-BLK1)											
Chloride	ND	0.50	0.25	mg/l							
Nitrate-NO3	ND	0.50	0.25	mg/l							
Nitrite-NO2	ND	0.50	0.30	mg/l							
Sulfate	ND	0.50	0.20	mg/l							
LCS Analyzed: 02/26/2008 (8B26038-BS1)											
Chloride	4.96	0.50	0.25	mg/l	5.00		99	90-110			*M-3*
Nitrate-NO3	4.80	0.50	0.25	mg/l	5.00		96	90-110			
Nitrite-NO2	5.05	0.50	0.30	mg/l	5.00		101	90-110			
Sulfate	9.47	0.50	0.20	mg/l	10.0		95	90-110			
Matrix Spike Analyzed: 02/26/2008 (8B26038-MS1)						**Source: IRB2478-01**					
Chloride	18.6	2.5	1.2	mg/l	5.00	15.4	65	80-120			*M2*
Nitrate-NO3	63.4	2.5	1.2	mg/l	5.00	59.5	78	80-120			*MHA*
Nitrite-NO2	4.76	2.5	1.5	mg/l	5.00	1.00	75	80-120			*M2*
Sulfate	55.5	2.5	1.0	mg/l	10.0	48.6	69	80-120			*MHA*
Matrix Spike Analyzed: 02/27/2008 (8B26038-MS2)						**Source: IRB2567-01**					
Nitrate-NO3	5.35	0.50	0.25	mg/l	5.00	0.394	99	80-120			
Nitrite-NO2	6.73	0.50	0.30	mg/l	5.00	ND	135	80-120			*M1*
Sulfate	19.1	0.50	0.20	mg/l	10.0	9.54	96	80-120			
Matrix Spike Dup Analyzed: 02/26/2008 (8B26038-MSD1)						**Source: IRB2478-01**					
Chloride	19.2	2.5	1.2	mg/l	5.00	15.4	77	80-120	3	20	*M2*
Nitrate-NO3	64.2	2.5	1.2	mg/l	5.00	59.5	95	80-120	1	20	
Nitrite-NO2	5.75	2.5	1.5	mg/l	5.00	1.00	95	80-120	19	20	
Sulfate	55.6	2.5	1.0	mg/l	10.0	48.6	70	80-120	0	20	*MHA*

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Project ID: Boeing C-6 Torrance (02/26/08)
1155.003
Report Number: IRB2567

Sampled: 02/26/08
Received: 02/26/08

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8B27065 Extracted: 02/27/08											
Blank Analyzed: 02/27/2008 (8B27065-BLK1)											
Alkalinity as CaCO3	ND	2.0	2.0	mg/l							
Duplicate Analyzed: 02/27/2008 (8B27065-DUP1)						**Source: IRB2567-01**					
Alkalinity as CaCO3	230	2.0	2.0	mg/l		228			1	20	
Reference Analyzed: 02/27/2008 (8B27065-SRM1)											
Alkalinity as CaCO3	264	2.0	2.0	mg/l	283		93	90-110			

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Received: 02/26/08

METHOD BLANK/QC DATA

TOTAL ORGANIC CARBON (EPA 9060A MOD.)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8C10106 Extracted: 03/10/08											
Blank Analyzed: 03/10/2008 (8C10106-BLK1)											
Total Organic Carbon	ND	1.0	0.50	mg/l							
LCS Analyzed: 03/10/2008 (8C10106-BS1)											
Total Organic Carbon	10.9	1.0	0.50	mg/l	10.0		109	90-110			
Matrix Spike Analyzed: 03/10/2008 (8C10106-MS1)						**Source: IRC0185-01**					
Total Organic Carbon	8.95	1.0	0.50	mg/l	5.00	2.97	120	80-120			
Matrix Spike Dup Analyzed: 03/10/2008 (8C10106-MSD1)						**Source: IRC0185-01**					
Total Organic Carbon	7.75	1.0	0.50	mg/l	5.00	2.97	96	80-120	14	20	

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Project ID: Boeing C-6 Torrance (02/26/08)
1155.003
Report Number: IRB2567

Sampled: 02/26/08
Received: 02/26/08

METHOD BLANK/QC DATA

Volatile Fatty Acids

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: M080304004 Extracted: 03/04/08											
LCS Analyzed: 03/04/2008 (M080304004-LCS)					Source:						
ACETIC ACID	1.7	0.07	0.04	MG/L	2		85	70-130			
BUTYRIC ACID	1.8	0.07	0.06	MG/L	2		90	70-130			
HEXANOIC ACID	1.7	0.1	0.08	MG/L	2		85	70-130			
PENTANOIC ACID	1.6	0.07	0.07	MG/L	2		80	70-130			
PYRUVIC ACID	1.6	0.07	0.07	MG/L	2		80	70-130			
I-HEXANOIC ACID	1.7	0.1	0.08	MG/L	2		85	70-130			
PROPIONIC ACID	1.8	0.07	0.05	MG/L	2		90	70-130			
I-PENTANOIC ACID	1.8	0.07	0.07	MG/L	2		90	70-130			
LACTIC ACID AND HIBA	2.2	0.1	0.07	MG/L	2		110	70-130			
BLANK Analyzed: 03/04/2008 (M080304004-MB)					Source:						
ACETIC ACID	0.07	0.07	0.04	MG/L				-			*U*
BUTYRIC ACID	0.07	0.07	0.06	MG/L				-			*U*
HEXANOIC ACID	0.1	0.1	0.08	MG/L				-			*U*
PENTANOIC ACID	0.07	0.07	0.07	MG/L				-			*U*
PYRUVIC ACID	0.07	0.07	0.07	MG/L				-			*U*
I-HEXANOIC ACID	0.1	0.1	0.08	MG/L				-			*U*
PROPIONIC ACID	0.07	0.07	0.05	MG/L				-			*U*
I-PENTANOIC ACID	0.07	0.07	0.07	MG/L				-			*U*
LACTIC ACID AND HIBA	0.09	0.1	0.07	MG/L				-			*J*
MATRIX SPIKE Analyzed: 03/04/2008 (P0802321-01A-MS)					Source:						
ACETIC ACID	11	0.07	0.04	MG/L	11.7		65	70-130			
BUTYRIC ACID	2	0.07	0.06	MG/L	2.09		96	70-130			
HEXANOIC ACID	1.8	0.1	0.08	MG/L	2		90	70-130			
PENTANOIC ACID	1.7	0.07	0.07	MG/L	2		85	70-130			
PYRUVIC ACID	1.9	0.07	0.07	MG/L	2.15		88	70-130			
I-HEXANOIC ACID	1.9	0.1	0.08	MG/L	2		95	70-130			
PROPIONIC ACID	2.4	0.07	0.05	MG/L	2.61		90	70-130			
I-PENTANOIC ACID	2	0.07	0.07	MG/L	2.19		91	70-130			
LACTIC ACID AND HIBA	0.1	0.1	0.07	MG/L	2		0	70-130			*U*

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Project ID: Boeing C-6 Torrance (02/26/08)
1155.003
Report Number: IRB2567

Sampled: 02/26/08
Received: 02/26/08

METHOD BLANK/QC DATA

Volatile Fatty Acids

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: M080304004 Extracted: 03/04/08											
MATRIX SPIKE DUPLICATE Analyzed: 03/04/2008 (P0802321-01A-SD)					Source:						
ACETIC ACID	10	0.07	0.04	MG/L	11.7		32	70-130	4		
BUTYRIC ACID	1.9	0.07	0.06	MG/L	2.09		91	70-130	5		
HEXANOIC ACID	1.8	0.1	0.08	MG/L	2		90	70-130	0		
PENTANOIC ACID	1.7	0.07	0.07	MG/L	2		85	70-130	0		
PYRUVIC ACID	1.7	0.07	0.07	MG/L	2.15		78	70-130	11		
I-HEXANOIC ACID	1.9	0.1	0.08	MG/L	2		95	70-130	0		
PROPIONIC ACID	2.3	0.07	0.05	MG/L	2.61		85	70-130	4		
I-PENTANOIC ACID	1.8	0.07	0.07	MG/L	2.19		81	70-130	11		
LACTIC ACID AND HIBA	0.1	0.1	0.07	MG/L	2		0	70-130	0		*U*
Batch: M080306013 Extracted: 03/04/08											
LCS Analyzed: 03/04/2008 (M080306013-LCS1)					Source:						
ACETIC ACID	1.7	0.07	0.04	MG/L	2		85	70-130			
BUTYRIC ACID	1.8	0.07	0.06	MG/L	2		90	70-130			
I-PENTANOIC ACID	1.8	0.07	0.07	MG/L	2		90	70-130			
LACTIC ACID AND HIBA	2.2	0.1	0.07	MG/L	2		110	70-130			
PROPIONIC ACID	1.8	0.07	0.05	MG/L	2		90	70-130			
PYRUVIC ACID	1.6	0.07	0.07	MG/L	2		80	70-130			
BLANK Analyzed: 03/04/2008 (M080306013-MB1)					Source:						
ACETIC ACID	0.07	0.07	0.04	MG/L				-			*U*
BUTYRIC ACID	0.07	0.07	0.06	MG/L				-			*U*
I-PENTANOIC ACID	0.07	0.07	0.07	MG/L				-			*U*
LACTIC ACID AND HIBA	0.09	0.1	0.07	MG/L				-			*J*
PROPIONIC ACID	0.07	0.07	0.05	MG/L				-			*U*
PYRUVIC ACID	0.07	0.07	0.07	MG/L				-			*U*

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BOE-C6-0188343

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Report Number: IRB2567

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Received: 02/26/08

METHOD BLANK/QC DATA

Volatile Fatty Acids

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: M080306014 Extracted: 03/04/08											
LCS Analyzed: 03/04/2008 (M080306014-LCS2)						**Source:**					
ACETIC ACID	1.7	0.07	0.04	MG/L	2		85	70-130			
LACTIC ACID AND HIBA	2.2	0.1	0.07	MG/L	2		110	70-130			
PROPIONIC ACID	1.8	0.07	0.05	MG/L	2		90	70-130			
BUTYRIC ACID	1.8	0.07	0.06	MG/L	2		90	70-130			
BLANK Analyzed: 03/04/2008 (M080306014-MB2)						**Source:**					
ACETIC ACID	0.07	0.07	0.04	MG/L				-			*U*
LACTIC ACID AND HIBA	0.09	0.1	0.07	MG/L				-			*J*
PROPIONIC ACID	0.07	0.07	0.05	MG/L				-			*U*
BUTYRIC ACID	0.07	0.07	0.06	MG/L				-			*U*

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Report Number: IRB2567

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METHOD BLANK/QC DATA

RSK175 Dissolved Gases in Water

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 080228GC8A Extracted: 02/28/08											
LCS Dup Analyzed: 02/28/2008 (080228GC8ABD)						**Source: 080228GC8ABS**					
Methane	739	1.0	0.39	ug/L	654	0	113	70-130	5	30	
Ethane	1336	2.0	0.50	ug/L	1227	0	109	70-130	4	30	
Ethylene	1182	3.0	0.33	ug/L	1145	0	103	70-130	3	30	
LCS Analyzed: 02/28/2008 (080228GC8ABS)						**Source:**					
Methane	774	1.0	0.39	ug/L	654	0	118	70-130			
Ethane	1385	2.0	0.50	ug/L	1227	0	113	70-130			
Ethylene	1216	3.0	0.33	ug/L	1145	0	106	70-130			
Blank Analyzed: 02/28/2008 (080228GC8ALB)						**Source:**					
Methane	0.40	1.0	0.39	ug/L				-			*Jb*
Ethane	ND	2.0	0.50	ug/L				-			
Ethylene	ND	3.0	0.33	ug/L				-			

TestAmerica Irvine

Trupti Mistry
Project Manager

The results pertain only to the samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from TestAmerica.

BOE-C6-0188344

Avocet Environmental Inc.	Project ID: Boeing C-6 Torrance (02/26/08)	
16 Technology Drive, Suite 154	1155.003	Sampled: 02/26/08
Irvine, CA 92618	Report Number: IRB2567	Received: 02/26/08
Attention: Michael Rendina		

DATA QUALIFIERS AND DEFINITIONS

C	Calibration Verification recovery was above the method control limit for this analyte. Analyte not detected, data not impacted.
J	estimated value
Ja	Estimated value. Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). The user of this data should be aware that this data is of limited reliability.
Jb	Result below RL and above or equal to MDL
L	Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was above the acceptance limits. Analyte not detected, data not impacted.
M	Recovery/RPD poor for MS/MSD
M1	The MS and/or MSD were above the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
M13	The sample spiked had a pH of less than 2. 2-Chloroethylvinylether degrades under acidic conditions.
M2	The MS and/or MSD were below the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
M-3	Results exceeded the linear range in the MS/MSD and therefore are not available for reporting. The batch was accepted based on acceptable recovery in the Blank Spike (LCS).
M7	The MS and/or MSD were above the acceptance limits. See Blank Spike (LCS).
MHA	Due to high levels of analyte in the sample, the MS/MSD calculation does not provide useful spike recovery information. See Blank Spike (LCS).
P-HS	Sample container contained headspace.
RL1	Reporting limit raised due to sample matrix effects.
RL3	Reporting limit raised due to high concentrations of non-target analytes.
U	non-detect
UM	[Undefined]
ND	Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
RPD	Relative Percent Difference

ADDITIONAL COMMENTS

For 8260 analyses:

Due to the high water solubility of alcohols and ketones, the calibration criteria for these compounds is <30% RSD. The average % RSD of all compounds in the calibration is 15%, in accordance with EPA methods.

TestAmerica Irvine

Trupti Mistry
Project Manager

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
17461 Derian Avenue. Suite 100, Irvine, CA 92614 (949) 261-1022 Fax:(949) 260-3297

Avocet Environmental Inc. | Project ID: Boeing C-6 Torrance (02/26/08)
16 Technology Drive, Suite 154 | 1155.003 | Sampled: 02/26/08
Irvine, CA 92618 | Report Number: IRB2567 | Received: 02/26/08
Attention: Michael Rendina

Certification Summary

TestAmerica Irvine

Method	Matrix	Nelac	California
EPA 300.0	Water	X	X
EPA 310.1	Water	X	X
EPA 8260B	Water	X	X
EPA 9060A MOD.	Water		X

Nevada and NELAP provide analyte specific accreditations. Analyte specific information for TestAmerica may be obtained by contacting the laboratory or visiting our website at www.testamericainc.com

Subcontracted Laboratories

Air Technology Laboratories, Inc.

Method Performed: RSK-175
Samples: IRB2567-01, IRB2567-02, IRB2567-03, IRB2567-04, IRB2567-07

Microseeps-SUB

220 William Pitt Way - Pittsburgh, PA 15238
Method Performed: AM23G
Samples: IRB2567-01, IRB2567-02, IRB2567-03, IRB2567-04, IRB2567-07

TestAmerica Irvine

Trupti Mistry
Project Manager

The results pertain only to the samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from TestAmerica.

BOE-C6-0188345

AirTECHNOLOGY Laboratories, Inc.

March 6, 2008

nelac
FL Cert #E87847/LA Cert #04140
EPA Method TO14A/TO15
EPA Method TO3
RSK-175
EPA Method 25C/3C

TestAmerica
ATTN: Trupti Mistry
17461 Derian Ave., Suite 100
Irvine, CA 92614

LABORATORY TEST RESULTS

Project Reference: IRB2567
Lab Number: A8022704-01/05

Enclosed are results for sample(s) received 2/27/08 by Air Technology Laboratories. Analyses were performed according to specifications on the chain of custody provided with the sample(s).

Report Narrative:

- Sample analyses were performed within method performance criteria and meet all requirements of the NELAC Standards.
- All results are reported without qualifications.

ATL appreciates the opportunity to provide testing services to your company. If you have any questions regarding these results, please call me at (626) 964-4032.

Sincerely,

Mark Johnson
Operations Manager
MJohnson@AirTechLabs.com

Enclosures

Note: The cover letter is an integral part of this analytical report.

TestAmerica
ANALYTICAL TESTING CORPORATION

A8022704-01/05

SUBCONTRACT ORDER - PROJECT # IRB2567

SENDING LABORATORY:	RECEIVING LABORATORY:
TestAmerica Irvine 17461 Derian Avenue. Suite 100 Irvine, CA 92614 Phone: (949) 261-1022 Fax: (949) 260-3297 Project Manager: Trupti Mistry	Air Technology Lab - SUB 18501 E. Gale Avenue, Suite #130 City of Industry, CA 91748 Phone :(626) 964-4032 Fax: (626) 964-5832 Project Location: California

Standard TAT is requested unless specific due date is requested. => Due Date: _____ Initials: _____

Analysis	Expiration	Comments
Sample ID: IRB2567-01 Water Sampled: 02/26/08 08:38		-01
Diss. Gasses-OUT	03/11/08 08:38	RSK175,sub=ATL,C2H4,C2H6,CH4,Elmnt EDD,J&B flags
Containers Supplied:		
40 mL VOA w/HCL + rubber septa (IRB2567-01G)		
40 mL VOA w/HCL + rubber septa (IRB2567-01H)		
40 mL VOA w/HCL + rubber septa (IRB2567-01I)		
Sample ID: IRB2567-02 Water Sampled: 02/26/08 10:20		-02
Diss. Gasses-OUT	03/11/08 10:20	RSK175,sub=ATL,C2H4,C2H6,CH4,Elmnt EDD,J&B flags
Containers Supplied:		
40 mL VOA w/HCL + rubber septa (IRB2567-02G)		
40 mL VOA w/HCL + rubber septa (IRB2567-02H)		
40 mL VOA w/HCL + rubber septa (IRB2567-02I)		
Sample ID: IRB2567-03 Water Sampled: 02/26/08 14:38		-03
Diss. Gasses-OUT	03/11/08 14:38	RSK175,sub=ATL,C2H4,C2H6,CH4,Elmnt EDD,J&B flags
Containers Supplied:		
40 mL VOA w/HCL + rubber septa (IRB2567-03G)		
40 mL VOA w/HCL + rubber septa (IRB2567-03H)		
40 mL VOA w/HCL + rubber septa (IRB2567-03I)		
Sample ID: IRB2567-04 Water Sampled: 02/26/08 13:00		-04
Diss. Gasses-OUT	03/11/08 13:00	RSK175,sub=ATL,C2H4,C2H6,CH4,Elmnt EDD,J&B flags
Containers Supplied:		
40 mL VOA w/HCL + rubber septa (IRB2567-04G)		
40 mL VOA w/HCL + rubber septa (IRB2567-04H)		
40 mL VOA w/HCL + rubber septa (IRB2567-04I)		

Released By	Date	Time	Received By	Date	Time
				2/27/08 ~~2/26/08~~	0810
Released By	Date	Time	Received By	Date	Time
	2/27/08	1035		2/27/08	1035

BOE-C6-0188346

TestAmerica
ANALYTICAL TESTING CORPORATION

A8022704-01/05

SUBCONTRACT ORDER - PROJECT # IRB2567

SENDING LABORATORY:
TestAmerica Irvine
17461 Derian Avenue. Suite 100
Irvine, CA 92614
Phone: (949) 261-1022
Fax: (949) 260-3297
Project Manager: Trupti Mistry

RECEIVING LABORATORY:
Air Technology Lab - SUB
18501 E. Gale Avenue, Suite #130
City of Industry, CA 91748
Phone :(626) 964-4032
Fax: (626) 964-5832

Project Location: California

Standard TAT is requested unless specific due date is requested. => Due Date: _____ Initials: _____

Analysis	Expiration	Comments
Sample ID: IRB2567-07 Water Sampled: 02/26/08 11:52		-05
Diss. Gasses-OUT	03/11/08 11:52	RSK175,sub=ATL,C2H4,C2H6,CH4,Elmnt EDD,J&B flags

Containers Supplied:
40 mL VOA w/HCL + rubber septa (IRB2567-07G)
40 mL VOA w/HCL + rubber septa (IRB2567-07H)
40 mL VOA w/HCL + rubber septa (IRB2567-07I)

SAMPLE INTEGRITY:

All containers intact: ☒ Yes ☐ No — Sample labels/COC agree: ☒ Yes ☐ No — Samples Received On Ice:: ☐ Yes ☒ No
Custody Seals Present: ☐ Yes ☒ No — Samples Preserved Properly: ☒ Yes ☐ No — Samples Received at (temp): 6°C

Released By	Date	Time	Received By	Date	Time
				2/27/08 2/27/08	0810
	2/27/08	1035		2/27/08	1035

Page 2 of 2

Client: TestAmerica
Attn: Trupti Mistry

Page 2 of 3
A8022704

Client's Project: IRB2567
Date Received: 2/27/2008
Matrix: Water
Units: ug/L

Dissolved Gases by EPA Procedure RSKSOP-175

Lab No.:		A8022704-01		A8022704-02		A8022704-03		A8022704-04		A8022704-05	
Client Sample I.D.:		IRB2567-01		IRB2567-02		IRB2567-03		IRB2567-04		IRB2567-07	
Date Sampled:		2/26/2008		2/26/2008		2/26/2008		2/26/2008		2/26/2008	
Date Analyzed:		2/28/2008		2/28/2008		2/28/2008		2/28/2008		2/28/2008	
Analyst Initials:		DT		DT		DT		DT		DT	
Data File:		28feb007		28feb008		28feb009		28feb010		28feb011	
QC Batch:		080228GC8A1		080228GC8A1		080228GC8A1		080228GC8A1		080228GC8A1	
Dilution Factor:		1.0		1.0		1.0		1.0		1.0	
ANALYTE	MDL	RL	Results	RL	Results	RL	Results	RL	Results	RL	Results
Methane	0.39	1.0	250	1.0	4.1	1.0	120	1.0	1,100	1.0	1,400
Ethane	0.50	2.0	ND	2.0	ND	2.0	0.51 J	2.0	ND	2.0	ND
Ethylene	0.33	3.0	1.3 J	3.0	3.0 J	3.0	57	3.0	87	3.0	28

PQL = Practical Quantitation Limit
ND = Not Detected (Below RL)
RL = PQL X Dilution Factor
J = Detected below RL and above MDL.

Reviewed/Approved By: _____ Date: 3-6-08
Mark J. Johnson
Operations Manager

The cover letter is an integral part of this analytical report.

BOE-C6-0188347

QC Batch No.: 080228GC8A1
Matrix: Water
Units: ug/L

QC for Dissolved Gases by EPA Procedure RSKSOP-175

Lab No.:			Method Blank		LCS		LCSD			
Date Analyzed:			02/28/08		02/28/08		02/28/08			
Analyst Initials:			DT		DT		DT			
Datafile:			28feb005		28feb003		28feb004			
Dilution Factor:			1.0		1.0		1.0			
ANALYTE	PQL	MDL	RL	Results	% Rec.	Criteria	% Rec.	Criteria	%RPD	Criteria
Methane	1.0	0.39	1.0	0.40 J	118	70-130%	113	70-130%	4.6	<30
Ethane	2.0	0.50	2.0	ND	113	70-130%	109	70-130%	3.6	<30
Ethylene	3.0	0.33	3.0	ND	106	70-130%	103	70-130%	2.8	<30

PQL = Practical Quantitation Limit
ND = Not Detected (Below RL).
RL = PQL X Dilution Factor
J = Detected below RL and above MDL.

Reviewed/Approved By: Mark J. Johnson
Operations Manager

Date: 3-6-08

The cover letter is an integral part of this analytical report.

AIrTECHNOLOGY Laboratories, Inc.
18501 E. Gale Avenue, Suite 130 ♦ City of Industry, CA 91748 ♦ Ph: (626) 964-4032 ♦ Fx: (626) 964-5832

microseeps
Turn insight into solutions

Client Name: Test America
Contact: Trupti Mistry
Address: 17461 Derian Ave
Suite 100
Irvine, CA 92614

Page: Page 1 of 11
Lab Proj #: P0802321
Report Date: 03/07/08
Client Proj Name: IRB2567
Client Proj #: IRB2567

Laboratory Results

Total pages in data package: 50

Lab Sample #	Client Sample ID
P0802321-01	IRB2567-01
P0802321-02	IRB2567-02
P0802321-03	IRB2567-03
P0802321-04	IRB2567-04
P0802321-05	IRB2567-07

Microseeps test results meet all the requirements of the NELAC standards

Approved By: Debbie Hallo Date: 3-7-08

Project Manager: Debbie Hallo

The analytical results reported here are reliable and usable to the precision expressed in this report. As required by some regulating authorities, a full discussion of the uncertainty in our analytical results can be obtained at our web site or through customer service. Unless otherwise specified, all results are reported on a wet weight basis

As a valued client we would appreciate your comments on our service
Please call customer service at (412)826-5245 or email customerservice@microseeps.com

220 William Pitt Way • Pittsburgh, PA 15238 • Tel 412-826-5245 • Fax 412-826-3433
website www.microseeps.com email info@microseeps.com

BOE-C6-0188348

Client Name: Test America
Contact: Trupti Mistry
Address: 17461 Derian Ave
Suite 100
Irvine, CA 92614

Page: Page 2 of 11
Lab Proj #: P0802321
Report Date: 03/07/08
Client Proj Name: IRB2567
Client Proj #: IRB2567

Case Narrative: The percent recoveries for the MS/MSD analyses for lactic and acetic acids were outside of control limits. The concentration of acetic acid in the unspiked sample interfered with the recoveries for the MS/MSD determinations The LCS and all other QC analyses were acceptable.

Data Qualifiers: J - estimated value, U - Non detect, R - Poor surrogate recovery, M - Recovery/RPD poor for MS/MSD, SAMP/DUP, B - detected in blank, S - field sample as received did not meet NELAC sample acceptance criteria, L - Subcontracted Lab used, N - NELAC certified analysis

Client Name: Test America
Contact: Trupti Mistry
Address: 17461 Derian Ave
Suite 100
Irvine, CA 92614

Page: Page 3 of 11
Lab Proj #: P0802321
Report Date: 03/07/08
Client Proj Name: IRB2567
Client Proj #: IRB2567

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
IRB2567-01	Water	P0802321-01	26 Feb. 08 8:38	28 Feb. 08 10:55

Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	By
SemiVolatiles							
N Acetic Acid	M	9.70	0.07	mg/L	AM23G	3/4/08	jb
N Butyric Acid		0.09	0.07	mg/L	AM23G	3/4/08	jb
N Hexanoic Acid	U	< 0.10	0.10	mg/L	AM23G	3/4/08	jb
N i-Hexanoic Acid	U	< 0.10	0.10	mg/L	AM23G	3/4/08	jb
N i-Pentanoic Acid		0.19	0.07	mg/L	AM23G	3/4/08	jb
N Lactic Acid and HIBA	UM	< 0.10	0.10	mg/L	AM23G	3/4/08	jb
N Pentanoic Acid	U	< 0.07	0.07	mg/L	AM23G	3/4/08	jb
N Propionic Acid		0.61	0.07	mg/L	AM23G	3/4/08	jb
N Pyruvic Acid		0.15	0.07	mg/L	AM23G	3/4/08	jb

Data Qualifiers: J - estimated value, U - Non detect, R - Poor surrogate recovery, M - Recovery/RPD poor for MS/MSD, SAMP/DUP, B - detected in blank, S - field sample as received did not meet NELAC sample acceptance criteria, L - Subcontracted Lab used, N - NELAC certified analysis

BOE-C6-0188349

Client Name: Test America
Contact: Trupti Mistry
Address: 17461 Derian Ave
Suite 100
Irvine, CA 92614

Page: Page 4 of 11
Lab Proj #: P0802321
Report Date: 03/07/08
Client Proj Name: IRB2567
Client Proj #: IRB2567

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
IRB2567-02	Water	P0802321-02	26 Feb. 08 10:20	28 Feb. 08 10:55

Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	By
SemiVolatiles							
N Acetic Acid		160.00	7.00	mg/L	AM23G	3/5/08	jb
N Butyric Acid		2.50	0.7	mg/L	AM23G	3/5/08	jb
N Hexanoic Acid	U	< 0 10	0.1	mg/L	AM23G	3/4/08	jb
N i-Hexanoic Acid	U	< 0.10	0.1	mg/L	AM23G	3/4/08	jb
N i-Pentanoic Acid		1.40	0.07	mg/L	AM23G	3/4/08	jb
N Lactic Acid and HIBA		11.00	10.00	mg/L	AM23G	3/5/08	jb
N Pentanoic Acid		0.16	0.07	mg/L	AM23G	3/4/08	jb
N Propionic Acid		23.00	0.7	mg/L	AM23G	3/5/08	jb
N Pyruvic Acid		1.10	0.07	mg/L	AM23G	3/4/08	jb

Data Qualifiers: J - estimated value, U - Non detect, R - Poor surrogate recovery, M - Recovery/RPD poor for MS/MSD, SAMP/DUP, B - detected in blank, S - field sample as received did not meet NELAC sample acceptance criteria, L - Subcontracted Lab used, N - NELAC certified analysis

Client Name: Test America
Contact: Trupti Mistry
Address: 17461 Derian Ave
Suite 100
Irvine, CA 92614

Page: Page 5 of 11
Lab Proj #: P0802321
Report Date: 03/07/08
Client Proj Name: IRB2567
Client Proj #: IRB2567

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
IRB2567-03	Water	P0802321-03	26 Feb. 08 14:38	28 Feb. 08 10:55

Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	By
SemiVolatiles							
N Acetic Acid		270.00	7.00	mg/L	AM23G	3/5/08	jb
N Butyric Acid		25.00	7.00	mg/L	AM23G	3/5/08	jb
N Hexanoic Acid		0.13	0.1	mg/L	AM23G	3/4/08	jb
N i-Hexanoic Acid	U	< 0.10	0 1	mg/L	AM23G	3/4/08	jb
N i-Pentanoic Acid		3 20	0.7	mg/L	AM23G	3/5/08	jb
N Lactic Acid and HIBA	J	8.40	10.00	mg/L	AM23G	3/5/08	jb
N Pentanoic Acid		1.50	0.07	mg/L	AM23G	3/4/08	jb
N Propionic Acid		52.00	7.00	mg/L	AM23G	3/5/08	jb
N Pyruvic Acid		3 80	0.7	mg/L	AM23G	3/5/08	jb

Data Qualifiers: J - estimated value, U - Non detect, R - Poor surrogate recovery, M - Recovery/RPD poor for MS/MSD, SAMP/DUP, B - detected in blank, S - field sample as received did not meet NELAC sample acceptance criteria, L - Subcontracted Lab used, N - NELAC certified analysis

BOE-C6-0188350

Client Name: Test America
Contact: Trupti Mistry
Address: 17461 Derian Ave
Suite 100
Irvine, CA 92614

Page: Page 6 of 11
Lab Proj #: P0802321
Report Date: 03/07/08
Client Proj Name: IRB2567
Client Proj #: IRB2567

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
IRB2567-04	Water	P0802321-04	26 Feb 08 13:00	28 Feb 08 10:55

Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	By
SemiVolatiles							
N Acetic Acid		82.00	0.70	mg/L	AM23G	3/5/08	jb
N Butyric Acid		1.50	0.07	mg/L	AM23G	3/5/08	jb
N Hexanoic Acid	U	< 0.10	0.1	mg/L	AM23G	3/5/08	jb
N i-Hexanoic Acid	U	< 0.10	0.1	mg/L	AM23G	3/5/08	jb
N i-Pentanoic Acid		0.38	0.07	mg/L	AM23G	3/5/08	jb
N Lactic Acid and HIBA	U	< 1.00	1.00	mg/L	AM23G	3/5/08	jb
N Pentanoic Acid		0.28	0.07	mg/L	AM23G	3/5/08	jb
N Propionic Acid		2.00	0.07	mg/L	AM23G	3/5/08	jb
N Pyruvic Acid		0.32	0.07	mg/L	AM23G	3/5/08	jb

Data Qualifiers: J - estimated value, U - Non detect, R - Poor surrogate recovery, M - Recovery/RPD poor for MS/MSD, SAMP/DUP, B - detected in blank, S - field sample as received did not meet NELAC sample acceptance criteria, L - Subcontracted Lab used, N - NELAC certified analysis

Client Name: Test America
Contact: Trupti Mistry
Address: 17461 Derian Ave
Suite 100
Irvine, CA 92614

Page: Page 7 of 11
Lab Proj #: P0802321
Report Date: 03/07/08
Client Proj Name: IRB2567
Client Proj #: IRB2567

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
IRB2567-07	Water	P0802321-05	26 Feb 08 11:52	28 Feb 08 10:55

Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	By
SemiVolatiles							
N Acetic Acid		120.00	7.00	mg/L	AM23G	3/6/08	jb
N Butyric Acid		14.00	0.7	mg/L	AM23G	3/5/08	jb
N Hexanoic Acid		0.47	0.1	mg/L	AM23G	3/4/08	jb
N i-Hexanoic Acid		0.28	0.1	mg/L	AM23G	3/4/08	jb
N i-Pentanoic Acid		4.30	0.07	mg/L	AM23G	3/4/08	jb
N Lactic Acid and HIBA		12.00	10.00	mg/L	AM23G	3/6/08	jb
N Pentanoic Acid		1.80	0.07	mg/L	AM23G	3/4/08	jb
N Propionic Acid		34.00	0.7	mg/L	AM23G	3/5/08	jb
N Pyruvic Acid		3.00	0.07	mg/L	AM23G	3/4/08	jb

Data Qualifiers: J - estimated value, U - Non detect, R - Poor surrogate recovery, M - Recovery/RPD poor for MS/MSD, SAMP/DUP, B - detected in blank, S - field sample as received did not meet NELAC sample acceptance criteria, L - Subcontracted Lab used, N - NELAC certified analysis

BOE-C6-0188351

Client Name: Test America
Contact: Trupti Mistry
Address: 17461 Derian Ave
Suite 100
Irvine, CA 92614

Page: Page 8 of 11
Lab Proj #: P0802321
Report Date: 03/07/08
Client Proj Name: IRB2567
Client Proj #: IRB2567

Prep Method: Volatile Fatty Acids by Ion Chromatography
Analysis Method: Volatile Fatty Acids by Ion Chromatography

M080304004-MB

	Result		TrueSpikeConc.	RDL	%Recovery	Ctl Limits
Acetic Acid	< 0.07	mg/L		0.07		- NA
Propionic Acid	< 0.07	mg/L		0.07		- NA
Butyric Acid	< 0.07	mg/L		0.07		- NA
Lactic Acid and HIBA	0.09	mg/L		0.10		- NA
Pyruvic Acid	< 0.07	mg/L		0.07		- NA
i-Pentanoic Acid	< 0.07	mg/L		0.07		- NA
Pentanoic Acid	< 0.07	mg/L		0.07		- NA
i-Hexanoic Acid	< 0.10	mg/L		0.10		- NA
Hexanoic Acid	< 0.10	mg/L		0.10		- NA

M080304004-LCS

	Result		TrueSpikeConc.	%Recovery	Ctl Limits
Acetic Acid	1.70	mg/L	2.00	85.00	70 - 130
Propionic Acid	1.80	mg/L	2.00	90.00	70 - 130
Butyric Acid	1.80	mg/L	2.00	90.00	70 - 130
Lactic Acid and HIBA	2.20	mg/L	2.00	110.00	70 - 130
Pyruvic Acid	1.60	mg/L	2.00	80.00	70 - 130
i-Pentanoic Acid	1.80	mg/L	2.00	90.00	70 - 130
Pentanoic Acid	1.60	mg/L	2.00	80.00	70 - 130
i-Hexanoic Acid	1.70	mg/L	2.00	85.00	70 - 130
Hexanoic Acid	1.70	mg/L	2.00	85.00	70 - 130

P0802321-01A-MS

	Result		TrueSpikeConc.	%Recovery	Ctl Limits
Acetic Acid	11.00	mg/L	2.00	65.00	70 - 130
Propionic Acid	2.40	mg/L	2.00	90.00	70 - 130
Butyric Acid	2.00	mg/L	2.00	96.00	70 - 130
Lactic Acid and HIBA	< 0.10	mg/L	2.00	0.00	70 - 130
Pyruvic Acid	1.90	mg/L	2.00	88.00	70 - 130
i-Pentanoic Acid	2.00	mg/L	2.00	91.00	70 - 130
Pentanoic Acid	1.70	mg/L	2.00	85.00	70 - 130
i-Hexanoic Acid	1.90	mg/L	2.00	95.00	70 - 130

Data Qualifiers: J - estimated value, U - Non detect, R - Poor surrogate recovery, M - Recovery/RPD poor for MS/MSD, SAMP/DUP, B - detected in blank, S - field sample as received did not meet NELAC sample acceptance criteria, L - Subcontracted Lab used, N - NELAC certified analysis

Client Name: Test America
Contact: Trupti Mistry
Address: 17461 Derian Ave
Suite 100
Irvine, CA 92614

Page: Page 9 of 11
Lab Proj #: P0802321
Report Date: 03/07/08
Client Proj Name: IRB2567
Client Proj #: IRB2567

P0802321-01A-MS

	Result		TrueSpikeConc.	%Recovery	Ctl Limits
Hexanoic Acid	1.80	mg/L	2.00	90.00	70 - 130

P0802321-01A-MSD

	Result		TrueSpikeConc.	%Recovery	Ctl Limits	RPD	RPD Ctl Limits
Acetic Acid	10.00	mg/L	2.00	32.00	70 - 130	4.41	0 - 30
Propionic Acid	2.30	mg/L	2.00	85.00	70 - 130	4.26	0 - 30
Butyric Acid	1.90	mg/L	2.00	91.00	70 - 130	5.13	0 - 30
Lactic Acid and HIBA	< 0.10	mg/L	2.00	0.00	70 - 130	0.00	0 - 30
Pyruvic Acid	1.70	mg/L	2.00	78.00	70 - 130	11.11	0 - 30
i-Pentanoic Acid	1.80	mg/L	2.00	81.00	70 - 130	10.53	0 - 30
Pentanoic Acid	1.70	mg/L	2.00	85.00	70 - 130	0.00	0 - 30
i-Hexanoic Acid	1.90	mg/L	2.00	95.00	70 - 130	0.00	0 - 30
Hexanoic Acid	1.80	mg/L	2.00	90.00	70 - 130	0.00	0 - 30

Outlined Results Indicate results outside of Control limits

Data Qualifiers: J - estimated value, U - Non detect, R - Poor surrogate recovery, M - Recovery/RPD poor for MS/MSD, SAMP/DUP, B - detected in blank, S - field sample as received did not meet NELAC sample acceptance criteria, L - Subcontracted Lab used, N - NELAC certified analysis

BOE-C6-0188352

Client Name: Test America
Contact: Trupti Mistry
Address: 17461 Derian Ave
Suite 100
Irvine, CA 92614

Page: Page 10 of 11
Lab Proj #: P0802321
Report Date: 03/07/08
Client Proj Name: IRB2567
Client Proj #: IRB2567

Prep Method: Volatile Fatty Acids by Ion Chromatography
Analysis Method: Volatile Fatty Acids by Ion Chromatography

M080306013-MB

	Result		TrueSpikeConc.	RDL	%Recovery	Ctl Limits
Acetic Acid	< 0 07	mg/L		0.07		- NA
Propionic Acid	< 0 07	mg/L		0 07		- NA
Butyric Acid	< 0 07	mg/L		0.07		- NA
Lactic Acid and HIBA	0.09	mg/L		0.10		- NA
Pyruvic Acid	< 0.07	mg/L		0 07		- NA
i-Pentanoic Acid	< 0.07	mg/L		0.07		- NA

M080306013-LCS

	Result		TrueSpikeConc.	%Recovery	Ctl Limits
Acetic Acid	1.70	mg/L	2.00	85 00	70 - 130
Propionic Acid	1.80	mg/L	2.00	90.00	70 - 130
Butyric Acid	1.80	mg/L	2.00	90.00	70 - 130
Lactic Acid and HIBA	2.20	mg/L	2.00	110.00	70 - 130
Pyruvic Acid	1.60	mg/L	2.00	80.00	70 - 130
i-Pentanoic Acid	1.80	mg/L	2.00	90.00	70 - 130

Outlined Results indicate results outside of Control limits

Data Qualifiers: J - estimated value, U - Non detect, R - Poor surrogate recovery, M - Recovery/RPD poor for MS/MSD, SAMP/DUP, B - detected in blank, S - field sample as received did not meet NELAC sample acceptance criteria, L - Subcontracted Lab used. N - NELAC certified analysis

Client Name: Test America
Contact: Trupti Mistry
Address: 17461 Derian Ave
Suite 100
Irvine, CA 92614

Page: Page 11 of 11
Lab Proj #: P0802321
Report Date: 03/07/08
Client Proj Name: IRB2567
Client Proj #: IRB2567

Prep Method: Volatile Fatty Acids by Ion Chromatography
Analysis Method: Volatile Fatty Acids by Ion Chromatography

M080306014-MB

	Result		TrueSpikeConc.	RDL	%Recovery	Ctl Limits
Acetic Acid	< 0.07	mg/L		0 07		- NA
Propionic Acid	< 0.07	mg/L		0.07		- NA
Butyric Acid	< 0.07	mg/L		0.07		- NA
Lactic Acid and HIBA	0 09	mg/L		0.10		- NA

M080306014-LCS

	Result		TrueSpikeConc.	%Recovery	Ctl Limits
Acetic Acid	1.70	mg/L	2.00	85.00	70 - 130
Propionic Acid	1 80	mg/L	2.00	90.00	70 - 130
Butyric Acid	1.80	mg/L	2.00	90.00	70 - 130
Lactic Acid and HIBA	2 20	mg/L	2.00	110 00	70 - 130

Outlined Results indicate results outside of Control limits

Data Qualifiers: J - estimated value, U - Non detect, R - Poor surrogate recovery, M - Recovery/RPD poor for MS/MSD, SAMP/DUP, B - detected in blank, S - field sample as received did not meet NELAC sample acceptance criteria, L - Subcontracted Lab used, N - NELAC certified analysis

BOE-C6-0188353

Chain of Custody Documents

TestAmerica
ANALYTICAL TESTING CORPORATION

P0802321

SUBCONTRACT ORDER - PROJECT # IRB2567

SENDING LABORATORY:
TestAmerica Irvine
17461 Derian Avenue. Suite 100
Irvine, CA 92614
Phone: (949) 261-1022
Fax: (949) 260-3297
Project Manager: Trupti Mistry

RECEIVING LABORATORY:
Microseeps-SUB
220 William Pitt Way
Pittsburgh, PA 15238
Phone :412/826-5245
Fax: 412/826-3433

Project Location: California

Standard TAT is requested unless specific due date is requested. => Due Date: _____ Initials: _____

Analysis	Expiration	Comments
Sample ID: IRB2567-01 Water Sampled: 02/26/08 08:38		
Organic Acids-Out	03/25/08 08:38	sub to Microseeps; IC method
Containers Supplied:		
40 mL Amber Voa Vial (IRB2567-01K)		
40 mL Amber Voa Vial (IRB2567-01L)		
Sample ID: IRB2567-02 Water Sampled: 02/26/08 10:20		
Organic Acids-Out	03/25/08 10:20	sub to Microseeps; IC method
Containers Supplied:		
40 mL Amber Voa Vial (IRB2567-02K)		
40 mL Amber Voa Vial (IRB2567-02L)		
Sample ID: IRB2567-03 Water Sampled: 02/26/08 14:38		
Organic Acids-Out	03/25/08 14:38	sub to Microseeps; IC method
Containers Supplied:		
40 mL Amber Voa Vial (IRB2567-03K)		
40 mL Amber Voa Vial (IRB2567-03L)		
Sample ID: IRB2567-04 Water Sampled: 02/26/08 13:00		
Organic Acids-Out	03/25/08 13:00	sub to Microseeps; IC method
Containers Supplied:		
40 mL Amber Voa Vial (IRB2567-04K)		
40 mL Amber Voa Vial (IRB2567-04L)		
Sample ID: IRB2567-07 Water Sampled: 02/26/08 11:52		
Organic Acids-Out	03/25/08 11:52	sub to Microseeps; IC method
Containers Supplied:		
40 mL Amber Voa Vial (IRB2567-07K)		
40 mL Amber Voa Vial (IRB2567-07L)		

Released By	Date	Time	Received By	Date	Time
[signature]	2/27/08	1700	FedEx	2/27/07	1700
[signature]	2/28/08	1100			

BOE-C6-0188354

TestAmerica
ANALYTICAL TESTING CORPORATION

SUBCONTRACT ORDER - PROJECT # IRB2567

SAMPLE INTEGRITY:

All containers intact: ☐ Yes ☐ No Sample labels/COC agree: ☐ Yes ☐ No Samples Received On Ice:: ☐ Yes ☐ No
Custody Seal Present: ☐ Yes ☐ No Samples Preserved Properly: ☐ Yes ☐ No Samples Received at (temp): _____

Released By	Date	Time	Received By	Date	Time

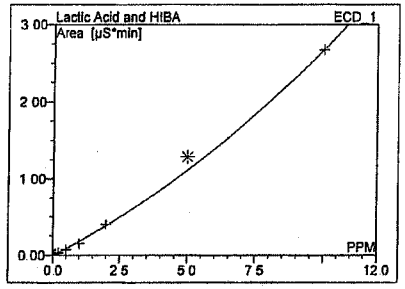
Released By	Date	Time	Received By	Date	Time

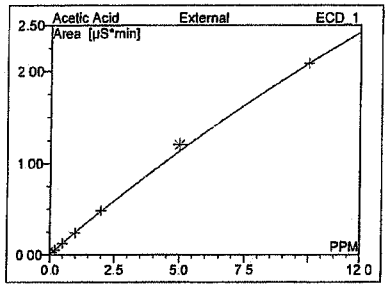
Volatile Fatty Acid Data

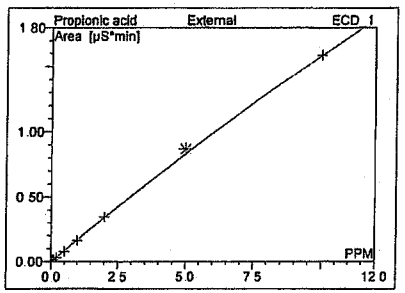
BOE-C6-0188355

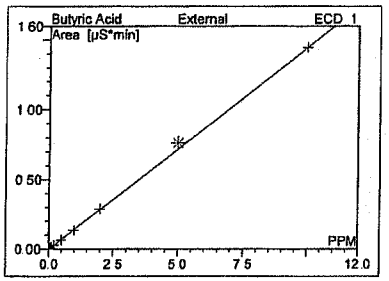
Calibration Batch Report

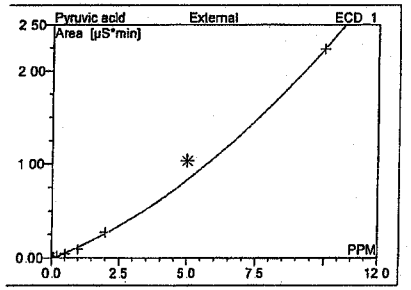
Sequence:	LLVFA 120507	Inj. Vol.:	1.0
Program:	PWM070716AA	Operator:	SEMIVOL13
Inj. Date/Time:	12/05/07	Run Time:	30.00

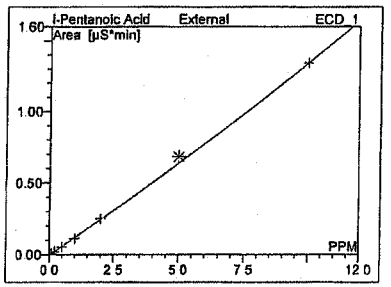




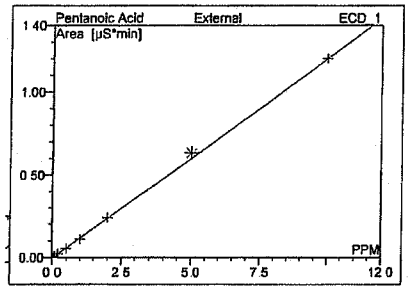


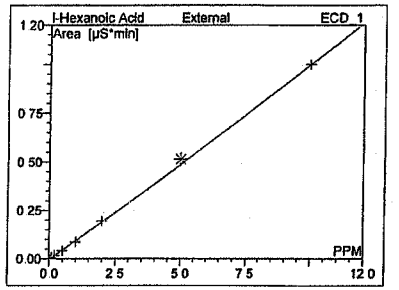


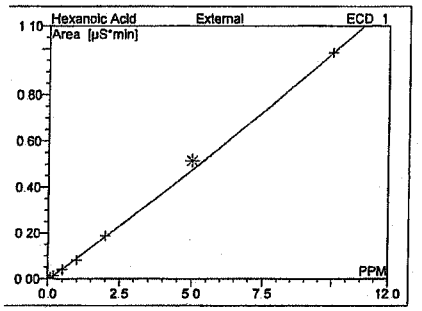




Sequence:	LLVFA 120507	Inj. Vol:	1.0
Program:	PWM070716AA	Operator:	n.a.
Inj. Date/Time:	12/05/07	Run Time:	30.00







Peak Name	Cal.Mode	Cal.Type	Slope	#Points	Rel.Std.Dev.	R-Square
					%	%
QUINIC	Total	QOff	0.000	7	n.a.	n.a.
Lactic Acid and HIBA	Total	QOff	0.181	7	4.070	99.973
Acetic Acid	Total	QOff	0.244	7	1.339	99.996
Propionic acid	Total	QOff	0.176	7	1.877	99.993
FORMIC	Total	QOff	0.000	7	n.a.	n.a.
Butyric Acid	Total	QOff	0.144	7	1.472	99.996
Pyruvic acid	Total	QOff	0.112	7	3.903	99.978
i-Pentanoic Acid	Total	QOff	0.122	7	2.083	99.992
Pentanoic Acid	Total	QOff	0.121	7	1.948	99.993
BAK	Total	QOff	0.000	7	n.a.	n.a.
i-Hexanoic Acid	Total	QOff	0.096	7	2.508	99.988
Hexanoic Acid	Total	QOff	0.093	7	2.625	99.987

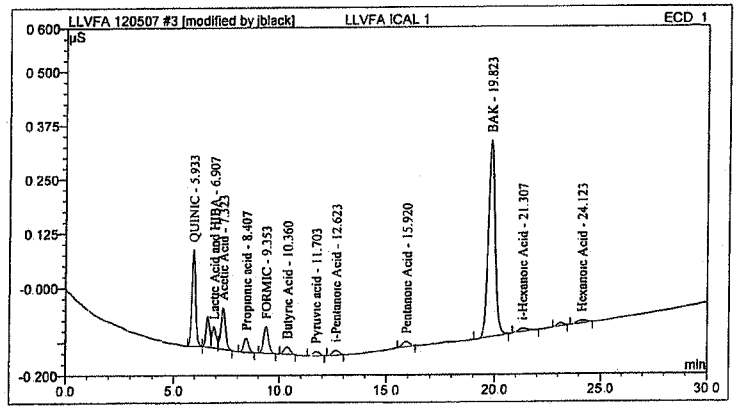
BOE-C6-0188356

MICROSEEPS

Sample Analysis Report

Sample Name:	LLVFA ICAL 1	**Sequence No:**	3
Sequence Name:	LLVFA 120507	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	12/5/2007 1:34 PM	**Analytical Method:**	AM23G
System Operator:	jblack	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	5.933	0.045	0.220	BMB	n.a.
3	Lactic Acid and HIBA	6.907	0.010	0.047	M	0.1048
4	Acetic Acid	7.323	0.023	0.095	MB	0.0756
5	Propionic acid	8.407	0.009	0.032	BMB	0.0757
6	FORMIC	9.353	0.017	0.061	BMB	n.a.
7	Butyric Acid	10.360	0.005	0.017	BMB	0.0695
8	Pyruvic acid	11.703	0.003	0.009	BMB*	0.1170
9	i-Pentanoic Acid	12.623	0.004	0.011	BMB	0.0805
10	Pentanoic Acid	15.920	0.004	0.011	BMB	0.0732
11	BAK	19.823	0.162	0.451	BMB*	n.a.
12	i-Hexanoic Acid	21.307	0.004	0.008	BMB*	0.0887
14	Hexanoic Acid	24.123	0.004	0.007	BMB*	0.0948

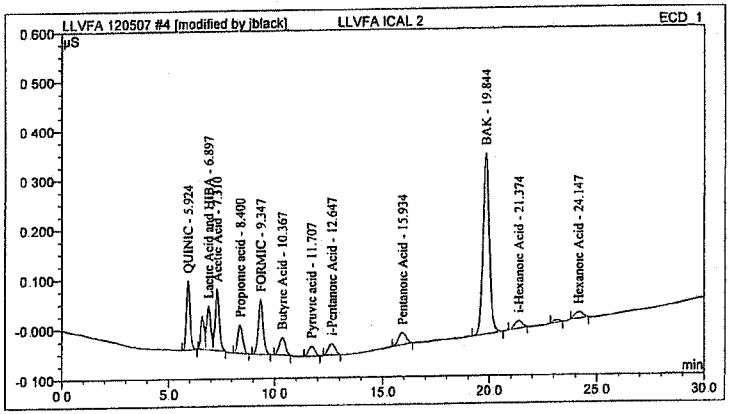


MICROSEEPS

Sample Analysis Report

Sample Name:	LLVFA ICAL 2	**Sequence No:**	4
Sequence Name:	LLVFA 120507	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	12/5/2007 2:15 PM	**Analytical Method:**	AM23G
System Operator:	jblack	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	5.924	0.028	0.138	BMB	n.a.
3	Lactic Acid and HIBA	6.897	0.020	0.087	M *	0.1557
4	Acetic Acid	7.310	0.029	0.122	MB*	0.1024
5	Propionic acid	8.400	0.015	0.056	BMB	0.1136
6	FORMIC	9.347	0.030	0.110	BMB	n.a.
7	Butyric Acid	10.367	0.012	0.035	BMB	0.1125
8	Pyruvic acid	11.707	0.007	0.020	BMB	0.1498
9	i-Pentanoic Acid	12.647	0.008	0.023	BMB	0.1145
10	Pentanoic Acid	15.934	0.010	0.024	BMB	0.1184
11	BAK	19.844	0.129	0.364	BMB*	n.a.
12	i-Hexanoic Acid	21.374	0.007	0.015	BMB	0.1165
14	Hexanoic Acid	24.147	0.006	0.013	BMB	0.1169



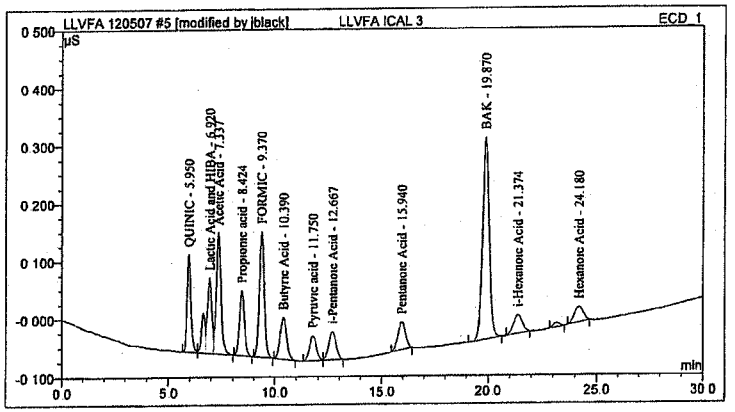
BOE-C6-0188357

MICROSEEPS

Sample Analysis Report

Sample Name:	LLVFA ICAL 3	**Sequence No:**	5
Sequence Name:	LLVFA 120507	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1 0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	12/5/2007 2:56 PM	**Analytical Method:**	AM23G
System Operator:	jblack	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	5.950	0.035	0.169	BM	n.a.
3	Lactic Acid and HIBA	6.920	0.030	0.131	M	0.2121
4	Acetic Acid	7.337	0.053	0.210	MB	0.1984
5	Propionic acid	8.424	0.031	0.112	BMB	0.2041
6	FORMIC	9.370	0.060	0.218	BMB	n.a.
7	Butyric Acid	10.390	0.025	0.072	BMB	0.2059
8	Pyruvic acid	11.750	0.016	0.043	BM	0.2241
9	i-Pentanoic Acid	12.667	0.020	0.048	MB	0.2064
10	Pentanoic Acid	15.940	0.020	0.048	BMB	0.2005
11	BAK	19.870	0.124	0.350	BMB*	n.a.
12	i-Hexanoic Acid	21.374	0.015	0.032	BMB	0.2074
14	Hexanoic Acid	24.180	0.013	0.026	BMB	0.1924

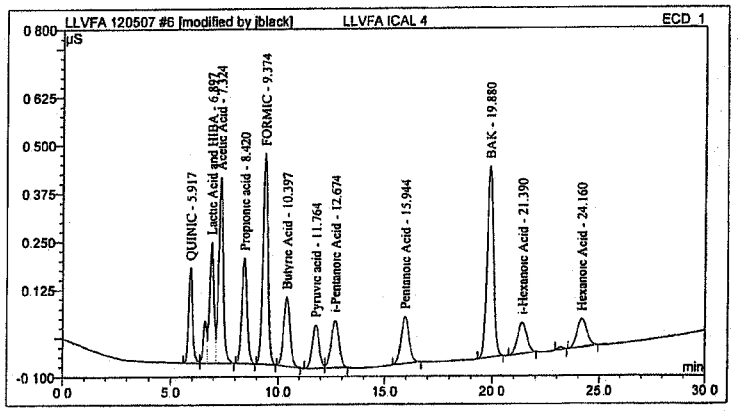


MICROSEEPS

Sample Analysis Report

Sample Name:	LLVFA ICAL 4	**Sequence No:**	6
Sequence Name:	LLVFA 120507	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1 0000
Date Time Collected:	12/5/2007 3:37 PM	**Analytical Method:**	AM23G
System Operator:	jblack	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	5.917	0.052	0.247	BM	n.a.
3	Lactic Acid and HIBA	6.897	0.073	0.313	M *	0.4396
4	Acetic Acid	7.324	0.121	0.481	MB	0.4822
5	Propionic acid	8.420	0.077	0.274	BMB	0.4687
6	FORMIC	9.374	0.150	0.547	BMB	n.a.
7	Butyric Acid	10.397	0.064	0.179	BMB	0.4723
8	Pyruvic acid	11.764	0.042	0.112	BM	0.4455
9	i-Pentanoic Acid	12.674	0.052	0.123	MB	0.4706
10	Pentanoic Acid	15.944	0.054	0.121	BMB	0.4784
11	BAK	19.880	0.173	0.495	BMB*	n.a.
12	i-Hexanoic Acid	21.390	0.039	0.080	BMB	0.4581
14	Hexanoic Acid	24.160	0.039	0.072	BMB	0.4742



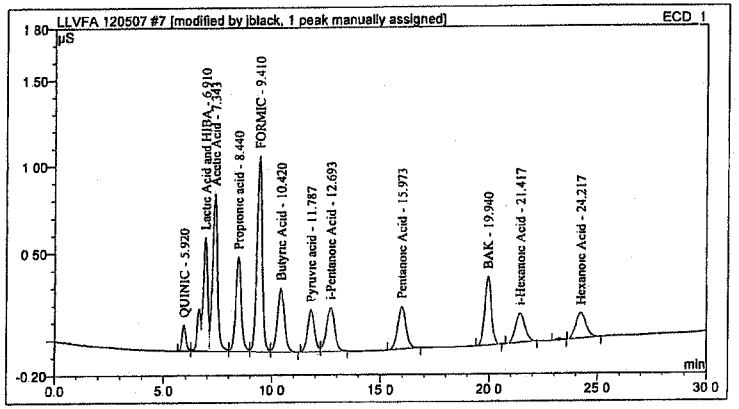
BOE-C6-0188358

MICROSEEPS

Sample Analysis Report

Sample Name:	LLVFA ICAL 5	**Sequence No:**	7
Sequence Name:	LLVFA 120507	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1 0000
Date Time Collected:	12/5/2007 4:18 PM	**Analytical Method:**	AM23G
System Operator:	jblack	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	5.920	0.031	0.148	BM ^	n.a.
3	Lactic Acid and HIBA	6.910	0.152	0.649	M	0.8523
4	Acetic Acid	7.343	0.238	0.902	M	0.9700
5	Propionic acid	8.440	0.162	0.539	M	0.9565
6	FORMIC	9.410	0.318	1.121	M	n.a.
7	Butyric Acid	10.420	0.135	0.364	MB	0.9642
8	Pyruvic acid	11.787	0.090	0.240	BM	0.8242
9	i-Pentanoic Acid	12.693	0.111	0.250	MB	0.9395
10	Pentanoic Acid	15.973	0.110	0.244	BMB	0.9446
11	BAK	19.940	0.137	0.390	BMB*	n.a.
12	i-Hexanoic Acid	21.417	0.085	0.167	BMB	0.9348
14	Hexanoic Acid	24.217	0.081	0.146	BMB	0.9248

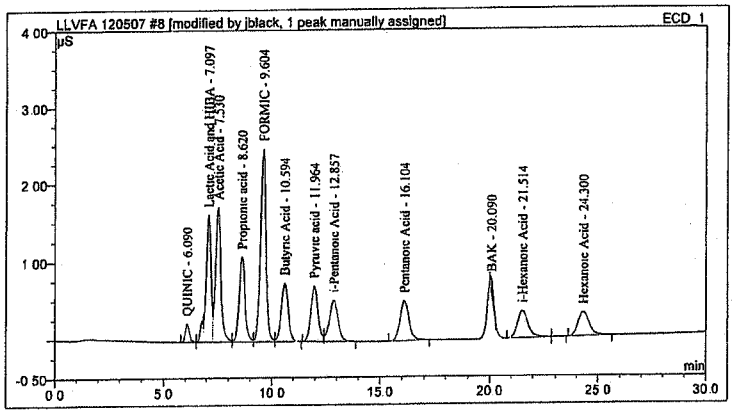


MICROSEEPS

Sample Analysis Report

Sample Name:	LLVFA ICAL 6	**Sequence No:**	8
Sequence Name:	LLVFA 120507	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1 0000
Date Time Collected:	12/5/2007 4:59 PM	**Analytical Method:**	AM23G
System Operator:	jblack	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	6.090	0.053	0.236	BM *^	n.a.
3	Lactic Acid and HIBA	7.097	0.407	1.634	M *	2.0856
4	Acetic Acid	7.530	0.484	1.731	M *	2.0222
5	Propionic acid	8.620	0.346	1.096	M *	2.0323
6	FORMIC	9.604	0.729	2.490	M *	n.a.
7	Butyric Acid	10.594	0.288	0.757	MB	2.0262
8	Pyruvic acid	11.964	0.273	0.715	BM	2.0895
9	i-Pentanoic Acid	12.857	0.249	0.534	MB	2.0393
10	Pentanoic Acid	16.104	0.242	0.513	BMB	2.0357
11	BAK	20.090	0.028	0.186	BMB	n.a.
12	i-Hexanoic Acid	21.514	0.194	0.347	BM	2.0455
14	Hexanoic Acid	24.300	0.188	0.309	BMB	2.0478



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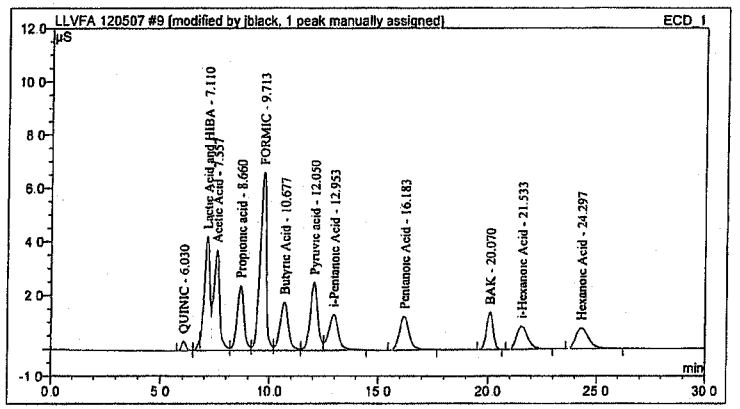
Sample Analysis Report

Sample Name:	LLVFA ICAL 7	**Sequence No:**	9
Sequence Name:	LLVFA 120507	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	12/5/2007 5:40 PM	**Analytical Method:**	AM23G
System Operator:	jblack	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	6.030	0.088	0.340	BM ^	n.a.
3	Lactic Acid and HIBA	7.110	1.288	4.234	M *	5.6328
4	Acetic Acid	7.557	1.205	3.716	M *	5.3269
5	Propionic acid	8.660	0.869	2.394	M *	5.2306
6	FORMIC	9.713	2.290	6.631	M	n.a.
7	Butyric Acid	10.677	0.764	1.773	M	5.3103
8	Pyruvic acid	12.050	1.032	2.504	M	5.8565
9	i-Pentanoic Acid	12.953	0.682	1.299	MB*	5.3241
10	Pentanoic Acid	16.183	0.634	1.225	BMB	5.2784
11	BAK	20.070	0.476	1.367	BMB*	n.a.
12	i-Hexanoic Acid	21.533	0.515	0.838	BMB	5.2784
13	Hexanoic Acid	24.297	0.515	0.747	BMB	5.4137



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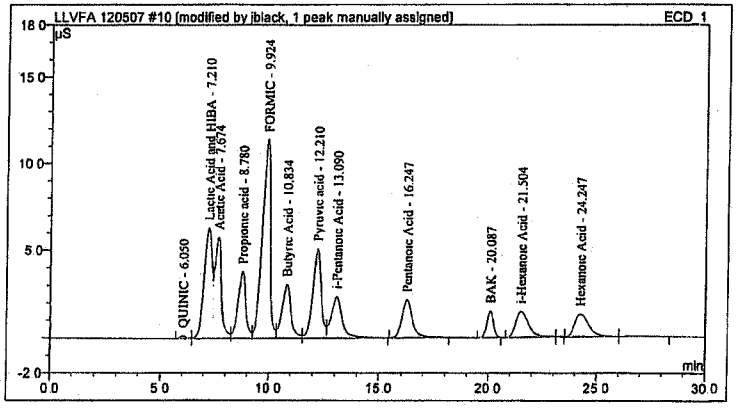
Sample Analysis Report

Sample Name:	LLVFA ICAL 8	**Sequence No:**	10
Sequence Name:	LLVFA 120507	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	12/5/2007 6:21 PM	**Analytical Method:**	AM23G
System Operator:	jblack	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	6.050	0.048	0.147	BM ^	n.a.
2	Lactic Acid and HIBA	7.210	2.674	6.325	M	9.9988
3	Acetic Acid	7.674	2.089	5.772	M	9.9993
4	Propionic acid	8.780	1.585	3.803	M	9.9991
5	FORMIC	9.924	4.905	11.410	M	n.a.
6	Butyric Acid	10.834	1.446	3.056	M	9.9994
7	Pyruvic acid	12.210	2.238	5.097	M	9.9991
8	i-Pentanoic Acid	13.090	1.344	2.358	MB	9.9992
9	Pentanoic Acid	16.247	1.202	2.160	BMB	9.9992
10	BAK	20.087	0.520	1.505	BMB*	n.a.
11	i-Hexanoic Acid	21.504	1.001	1.478	BMb*	9.9990
13	Hexanoic Acid	24.247	0.983	1.300	BMB	9.9990



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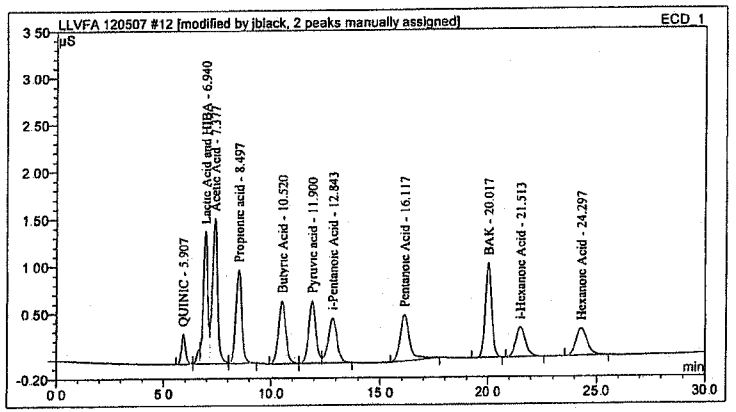
Sample Analysis Report

Sample Name:	ICV	**Sequence No:**	12
Sequence Name:	LLVFA 120507	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1 0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1 0000
Date Time Collected:	12/5/2007 7:43 PM	**Analytical Method:**	AM23G
System Operator:	jblack	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	5.907	0.073	0.323	BM	n.a.
3	Lactic Acid and HIBA	6.940	0.351	1.406	M *^	1.8248
4	Acetic Acid	7.377	0.428	1.541	M *	1.7774
5	Propionic acid	8.497	0.312	0.997	MB*	1.8313
6	Butyric Acid	10.520	0.260	0.674	BM ^	1.8294
7	Pyruvic acid	11.900	0.263	0.669	M	2.0246
8	i-Pentanoic Acid	12.843	0.225	0.481	MB	1.8472
9	Pentanoic Acid	16.117	0.253	0.494	BMB	2.1283
10	BAK	20.017	0.353	1.006	BMB*	n.a.
11	i-Hexanoic Acid	21.513	0.171	0.316	BMB	1.8110
12	Hexanoic Acid	24.297	0.175	0.292	BMB	1.9173



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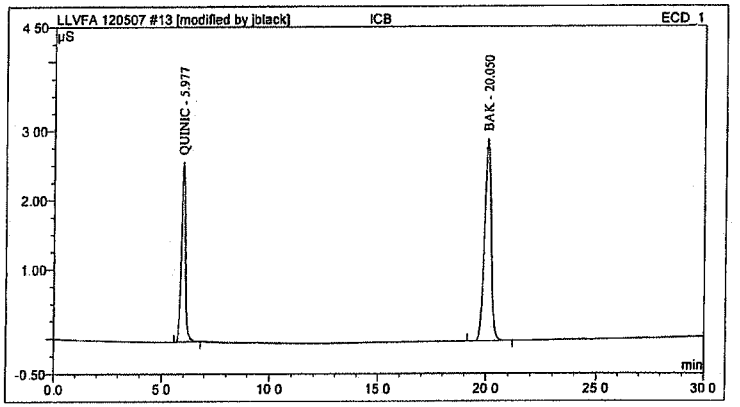
Sample Analysis Report

Sample Name:	ICB	**Sequence No:**	13
Sequence Name:	LLVFA 120507	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1 0000
Date Time Collected:	12/5/2007 8:25 PM	**Analytical Method:**	AM23G
System Operator:	jblack	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	5.977	0.560	2.591	BMB	n.a.
2	BAK	20.050	1.021	2.912	BMB*	n.a.



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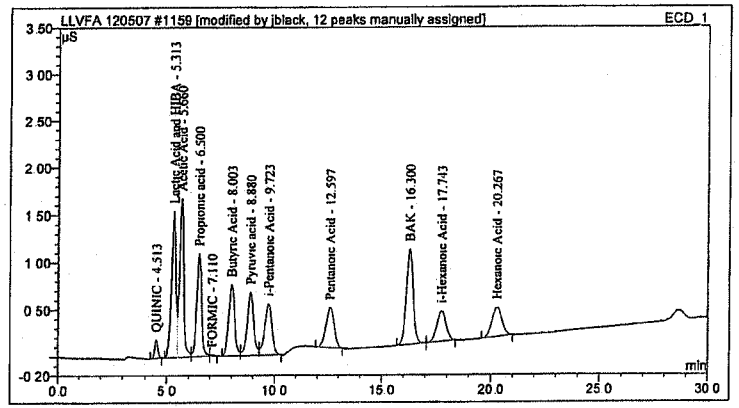
Sample Analysis Report

Sample Name:	CCV	**Sequence No:**	1159
Sequence Name:	LLVFA 120507	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1 0000
Date Time Collected:	3/4/2008 12:22 PM	**Analytical Method:**	AM23G
System Operator:	jblack	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	4.513	0.035	0.196	BMB^	n.a.
2	Lactic Acid and HIBA	5.313	0.357	1.548	BM ^	1.8555
3	Acetic Acid	5.660	0.389	1.678	M ^	1.6137
4	Propionic acid	6.500	0.285	1.091	M ^	1.6746
5	FORMIC	7.110	0.003	0.014	MB^	n.a.
6	Butyric Acid	8.003	0.240	0.755	BM ^	1.6945
7	Pyruvic acid	8.880	0.235	0.672	M ^	1.8469
8	i-Pentanoic Acid	9.723	0.216	0.543	MB^	1.7741
9	Pentanoic Acid	12.597	0.192	0.424	BMB*^	1.6253
10	BAK	16.300	0.370	1.009	BM ^	n.a.
11	i-Hexanoic Acid	17.743	0.157	0.323	MB^	1.6704
12	Hexanoic Acid	20.267	0.169	0.313	BMB*^	1.8558



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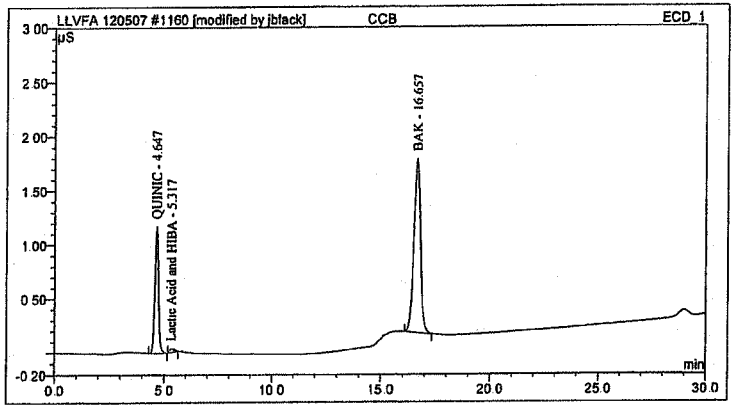
Sample Analysis Report

Sample Name:	CCB	**Sequence No:**	1160
Sequence Name:	LLVFA 120507	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	3/4/2008 1:03 PM	**Analytical Method:**	AM23G
System Operator:	jblack	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	4.647	0.212	1.176	BMB	n.a.
2	Lactic Acid and HIBA	5.317	0.009	0.034	BMB*	0.0946
3	BAK	16.657	0.582	1.609	BMB*	n.a.



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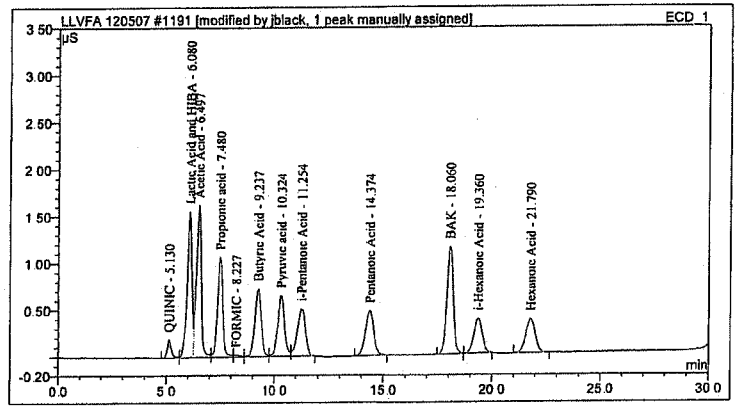
Sample Analysis Report

Sample Name:	CCV	**Sequence No:**	1191
Sequence Name:	LLVFA 120507	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1 0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1 0000
Date Time Collected:	3/5/2008 11:40 AM	**Analytical Method:**	AM23G
System Operator:	jblack	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	5.130	0.045	0.195	BM *	n.a.
2	Lactic Acid and HIBA	6.080	0.411	1.561	M *	2.1041
3	Acetic Acid	6.497	0.412	1.620	M	1.7098
4	Propionic acid	7.480	0.308	1.066	M	1.8126
5	FORMIC	8.227	0.007	0.020	M	n.a.
6	Butyric Acid	9.237	0.251	0.722	M	1.7700
7	Pyruvic acid	10.324	0.237	0.649	M	1.8624
8	i-Pentanoic Acid	11.254	0.211	0.502	MB	1.7389
9	Pentanoic Acid	14.374	0.213	0.478	BMB^	1.7941
10	BAK	18.060	0.390	1.145	BMB	n.a.
11	i-Hexanoic Acid	19.360	0.168	0.367	BMB	1.7889
12	Hexanoic Acid	21.790	0.184	0.360	BMB	2.0097



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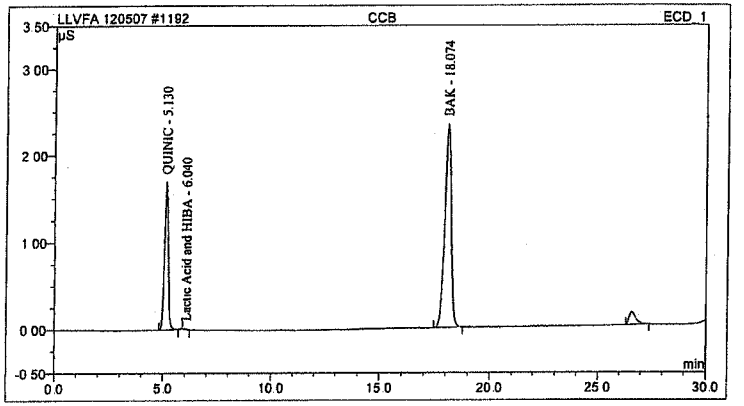
Sample Analysis Report

Sample Name:	CCB	**Sequence No:**	1192
Sequence Name:	LLVFA 120507	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	3/5/2008 12:21 PM	**Analytical Method:**	AM23G
System Operator:	jblack	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	5.130	0.329	1.697	BMB	n.a.
2	Lactic Acid and HIBA	6.040	0.002	0.012	BMB	0.0579
3	BAK	18.074	0.798	2.335	BMB	n.a.



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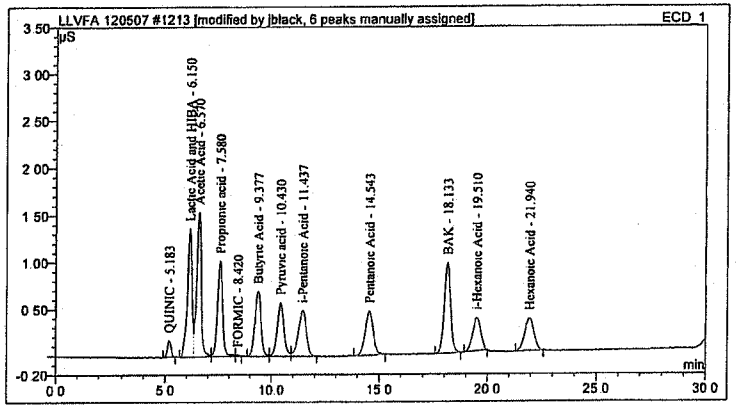
Sample Analysis Report

Sample Name:	CCV	**Sequence No:**	1213
Sequence Name:	LLVFA 120507	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	3/6/2008 2:19 PM	**Analytical Method:**	AM23G
System Operator:	jblack	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	5.183	0.034	0.174	BMB	n.a.
2	Lactic Acid and HIBA	6.150	0.352	1.369	BM *	1.8288
3	Acetic Acid	6.570	0.387	1.546	M *	1.6040
4	Propionic acid	7.580	0.294	1.022	M *^	1.7254
5	FORMIC	8.420	0.003	0.015	MB*	n.a.
6	Butyric Acid	9.377	0.239	0.696	BM ^	1.6870
7	Pyruvic acid	10.430	0.209	0.576	M ^	1.5756
8	i-Pentanoic Acid	11.437	0.208	0.489	MB^	1.7162
9	Pentanoic Acid	14.543	0.206	0.473	BMB^	1.7366
10	BAK	18.133	0.327	0.967	BMB	n.a.
11	i-Hexanoic Acid	19.510	0.156	0.353	BMB^	1.6590
12	Hexanoic Acid	21.940	0.171	0.346	BMB	1.8722



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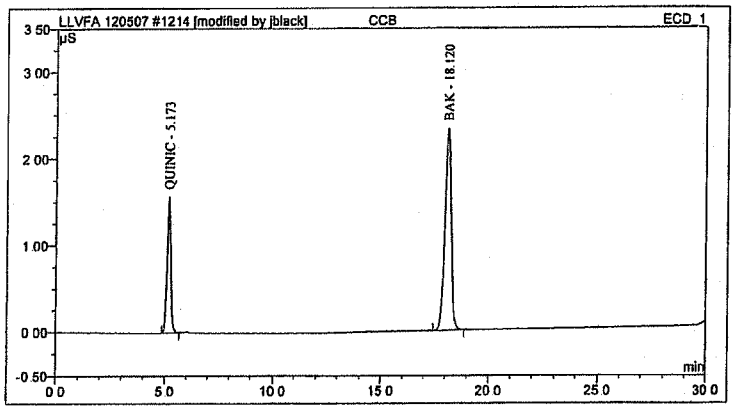
Sample Analysis Report

Sample Name:	CCB	**Sequence No:**	1214
Sequence Name:	LLVFA 120507	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	3/6/2008 3:42 PM	**Analytical Method:**	AM23G
System Operator:	jblack	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	5.173	0.300	1.571	BMB	n.a.
2	BAK	18.120	0.785	2.327	BMB	n.a.



BOE-C6-0188364

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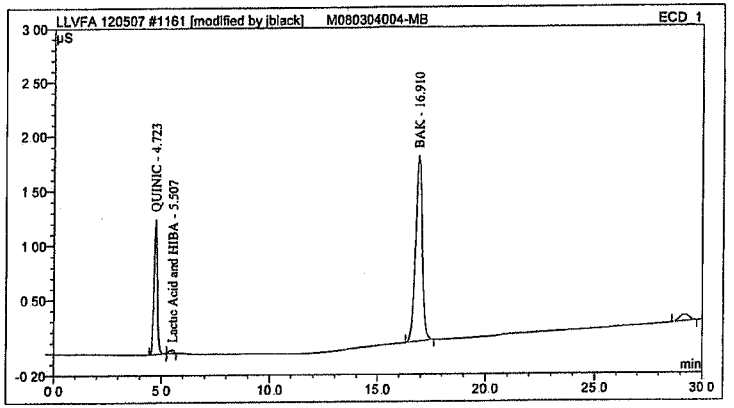
Sample Analysis Report

Sample Name:	M080304004-MB	**Sequence No:**	1161
Sequence Name:	LLVFA 120507	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1 0000
Date Time Collected:	3/4/2008 1:44 PM	**Analytical Method:**	AM23G
System Operator:	jblack	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	4.723	0.225	1.249	BM *	n.a.
2	Lactic Acid and HIBA	5.507	0.007	0.028	MB*	0.0861
3	BAK	16.910	0.617	1.700	BMB	n.a.



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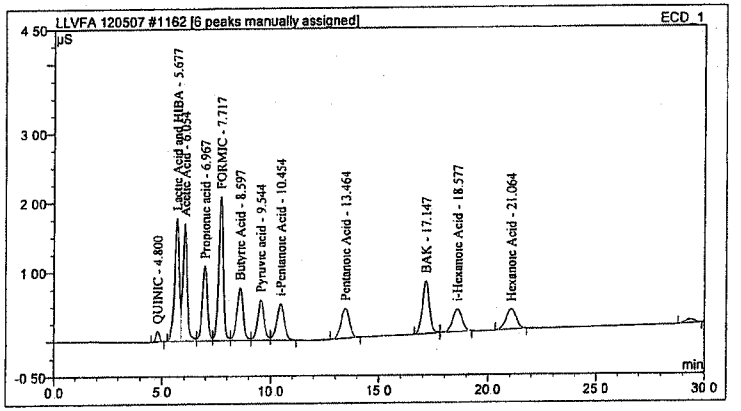
Sample Analysis Report

Sample Name:	M080304004-LCS	**Sequence No:**	1162
Sequence Name:	LLVFA 120507	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1 0000
Date Time Collected:	3/4/2008 2:25 PM	**Analytical Method:**	AM23G
System Operator:	jblack	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	4.800	0.029	0.150	BMB	n.a.
2	Lactic Acid and HIBA	5.677	0.435	1.771	BM	2.2162
3	Acetic Acid	6.054	0.411	1.689	M	1.7049
4	Propionic acid	6.967	0.300	1.077	M	1.7631
5	FORMIC	7.717	0.537	2.076	M	n.a.
6	Butyric Acid	8.597	0.257	0.758	M ^	1.8114
7	Pyruvic acid	9.544	0.203	0.585	M ^	1.6372
8	i-Pentanoic Acid	10.454	0.214	0.524	MB^	1.7641
9	Pentanoic Acid	13.464	0.195	0.429	BMB^	1.6431
10	BAK	17.147	0.276	0.759	BM	n.a.
11	i-Hexanoic Acid	18.577	0.161	0.327	MB^	1.7130
12	Hexanoic Acid	21.064	0.155	0.292	BMB^	1.7107



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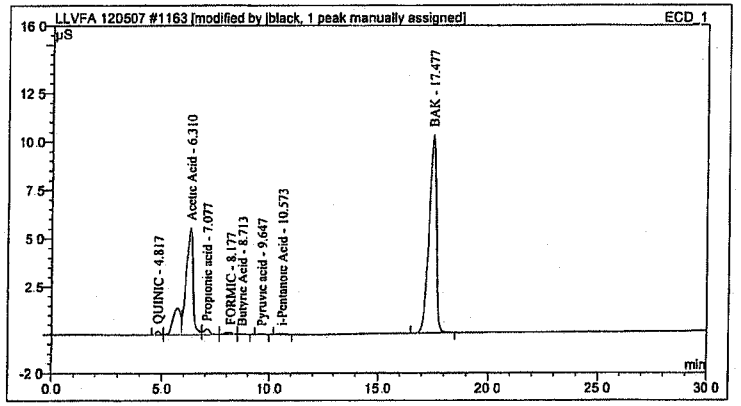
Sample Analysis Report

Sample Name:	P0802321-01A	**Sequence No:**	1163
Sequence Name:	LLVFA 120507	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	3/4/2008 3:06 PM	**Analytical Method:**	AM23G
System Operator:	jblack	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	4.817	0.039	0.177	BM	n.a.
3	Acetic Acid	6.310	2.044	5.540	M *	9.7402
4	Propionic acid	7.077	0.103	0.290	M	0.6144
5	FORMIC	8.177	0.050	0.112	M *	n.a.
6	Butyric Acid	8.713	0.009	0.026	MB*	0.0924
7	Pyruvic acid	9.647	0.007	0.024	BMB	0.1510
8	i-Pentanoic Acid	10.573	0.017	0.048	BMB	0.1862
9	BAK	17.477	4.027	10.272	BMB	n.a.



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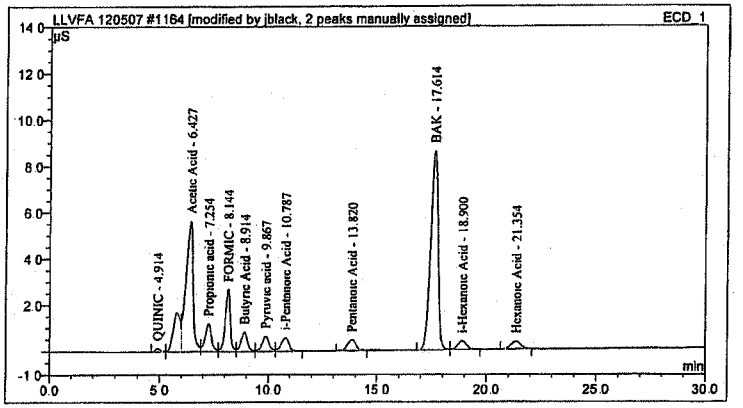
Sample Analysis Report

Sample Name:	P0802321-01A-MS	**Sequence No:**	1164
Sequence Name:	LLVFA 120507	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	3/4/2008 3:47 PM	**Analytical Method:**	AM23G
System Operator:	jblack	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	4.914	0.040	0.141	BM	n.a.
3	Acetic Acid	6.427	2.232	5.641	M *	10.8383
4	Propionic acid	7.254	0.402	1.179	M *	2.3647
5	FORMIC	8.144	0.718	2.679	M	n.a.
6	Butyric Acid	8.914	0.280	0.825	M	1.9676
7	Pyruvic acid	9.867	0.241	0.645	M	1.8838
8	i-Pentanoic Acid	10.787	0.242	0.562	MB	1.9802
9	Pentanoic Acid	13.820	0.205	0.454	BMB	1.7272
10	BAK	17.614	3.334	8.601	BM	n.a.
11	i-Hexanoic Acid	18.900	0.177	0.360	MB^	1.8814
12	Hexanoic Acid	21.354	0.165	0.316	BMB	1.8133



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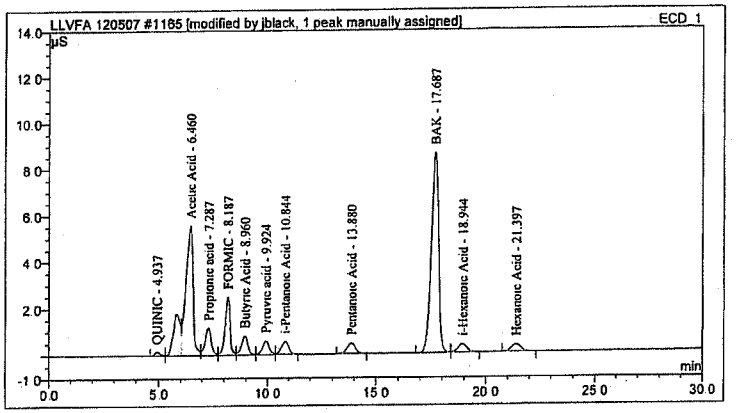
Sample Analysis Report

Sample Name:	P0802321-01A-MSD	**Sequence No:**	1165
Sequence Name:	LLVFA 120507	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1 0000
Date Time Collected:	3/4/2008 4:29 PM	**Analytical Method:**	AM23G
System Operator:	jblack	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	4.937	0.044	0.160	BM	n.a.
3	Acetic Acid	6.460	2.153	5.557	M *	10.3706
4	Propionic acid	7.287	0.385	1.149	M *	2.2652
5	FORMIC	8.187	0.661	2.486	M	n.a.
6	Butyric Acid	8.960	0.268	0.798	M	1.8871
7	Pyruvic acid	9.924	0.210	0.585	M	1.6809
8	i-Pentanoic Acid	10.844	0.224	0.543	MB	1.8393
9	Pentanoic Acid	13.880	0.199	0.446	BMB	1.6790
10	BAK	17.687	3.362	8.608	BM	n.a.
11	i-Hexanoic Acid	18.944	0.175	0.353	MB	1.8520
12	Hexanoic Acid	21.397	0.164	0.313	BMB	1.8054

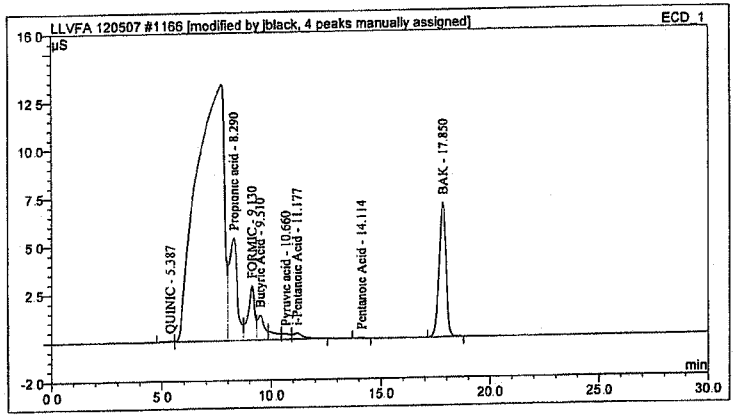


MICROSEEPS

Sample Analysis Report

Sample Name:	P0802321-02A	**Sequence No:**	1166
Sequence Name:	LLVFA 120507	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	3/4/2008 5:10 PM	**Analytical Method:**	AM23G
System Operator:	jblack	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	5.387	0.020	0.044	BM	n.a.
3	Propionic acid	8.290	2.341	5.319	M *^	15.6965
4	FORMIC	9.130	0.991	2.804	M *^	n.a.
5	Butyric Acid	9.510	0.468	1.267	M *^	3.2698
7	Pyruvic acid	10.660	0.126	0.293	M *^	1.0947
8	i-Pentanoic Acid	11.177	0.172	0.301	MB*	1.4271
9	Pentanoic Acid	14.114	0.015	0.040	BMB	0.1603
10	BAK	17.850	2.598	6.978	BMB	n.a.



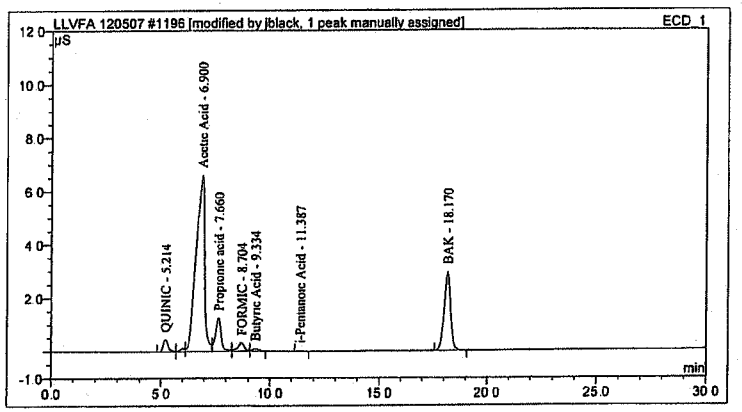
BOE-C6-0188367

MICROSEEPS

Sample Analysis Report

Sample Name:	P0802321-02A 10X	**Sequence No:**	1196
Sequence Name:	LLVFA 120507	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	3/5/2008 3:05 PM	**Analytical Method:**	AM23G
System Operator:	jblack	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	5.214	0.125	0.455	BM	n.a.
3	Acetic Acid	6.900	3.063	6.616	M *	16.5334
4	Propionic acid	7.660	0.391	1.242	M *	2.2969
5	FORMIC	8.704	0.111	0.310	M	n.a.
6	Butyric Acid	9.334	0.032	0.091	MB	0.2510
7	i-Pentanoic Acid	11.387	0.005	0.014	BMB	0.0852
8	BAK	18.170	1.029	2.940	BMB	n.a.

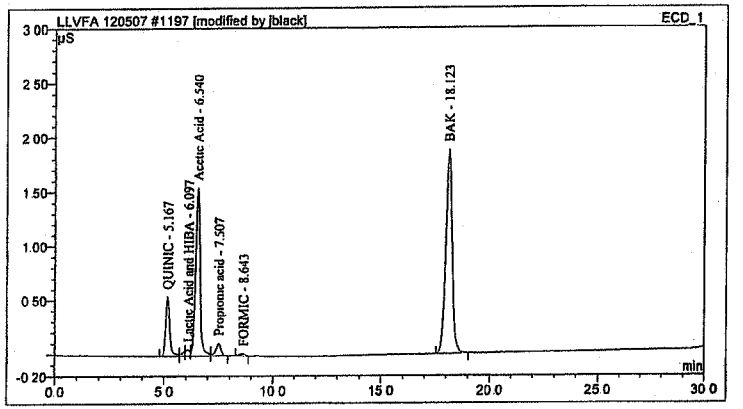


MICROSEEPS

Sample Analysis Report

Sample Name:	P0802321-02A 100X	**Sequence No:**	1197
Sequence Name:	LLVFA 120507	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	3/5/2008 3:46 PM	**Analytical Method:**	AM23G
System Operator:	jblack	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	5.167	0.115	0.548	BM	n.a.
3	Lactic Acid and HIBA	6.097	0.012	0.059	M *	0.1137
4	Acetic Acid	6.540	0.388	1.551	M *	1.6078
5	Propionic acid	7.507	0.031	0.113	MB*	0.2049
6	FORMIC	8.643	0.006	0.019	BMB	n.a.
7	BAK	18.123	0.659	1.881	BMB	n.a.



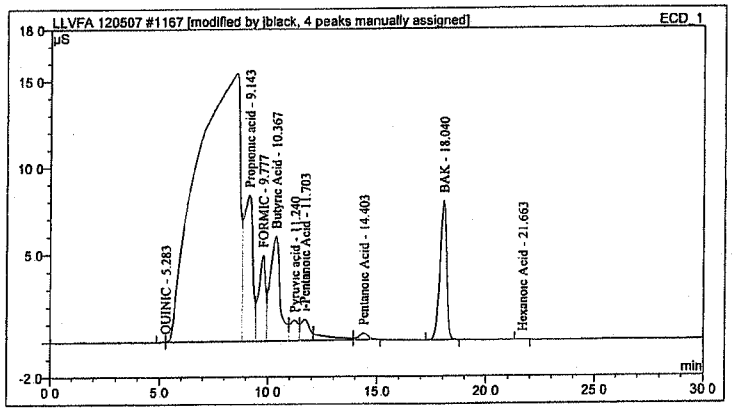
BOE-C6-0188368

MICROSEEPS

Sample Analysis Report

Sample Name:	P0802321-03A	**Sequence No:**	1167
Sequence Name:	LLVFA 120507	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	3/4/2008 5:51 PM	**Analytical Method:**	AM23G
System Operator:	jblack	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	5.283	0.005	0.022	BM *	n.a.
3	Propionic acid	9.143	4.029	8.349	M *^	33.9523
4	FORMIC	9.777	1.745	4.893	M *^	n.a.
5	Butyric Acid	10.367	3.218	5.963	M *^	22.0574
6	Pyruvic acid	11.240	0.532	1.166	M *^	3.5616
7	i-Pentanoic Acid	11.703	0.541	1.205	M *	4.2745
9	Pentanoic Acid	14.403	0.183	0.370	MB	1.5440
10	BAK	18.040	2.889	7.934	BMB	n.a.
11	Hexanoic Acid	21.663	0.007	0.018	BMB	0.1301

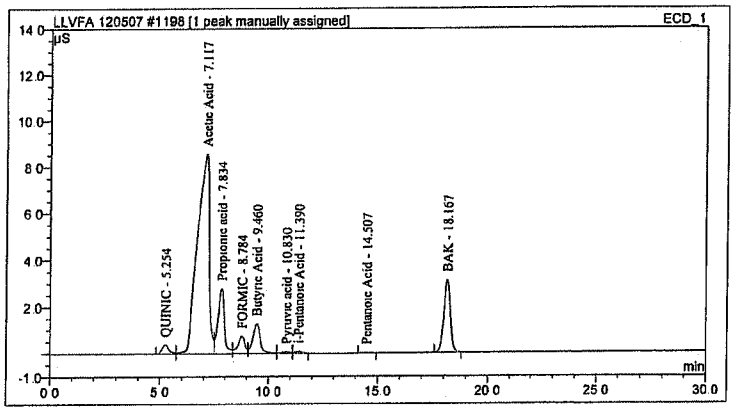


MICROSEEPS

Sample Analysis Report

Sample Name:	P0802321-03A 10X	**Sequence No:**	1198
Sequence Name:	LLVFA 120507	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	3/5/2008 4:27 PM	**Analytical Method:**	AM23G
System Operator:	jblack	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	5.254	0.145	0.395	BM	n.a.
2	Acetic Acid	7.117	5.417	8.575	M	n.a.
3	Propionic acid	7.834	0.994	2.804	M	6.0256
4	FORMIC	8.784	0.280	0.750	M	n.a.
5	Butyric Acid	9.460	0.503	1.275	M	3.5123
6	Pyruvic acid	10.830	0.035	0.072	M ^	0.3840
7	i-Pentanoic Acid	11.390	0.034	0.086	MB	0.3213
8	Pentanoic Acid	14.507	0.013	0.033	BMB	0.1422
9	BAK	18.167	1.073	3.111	BMB	n.a.



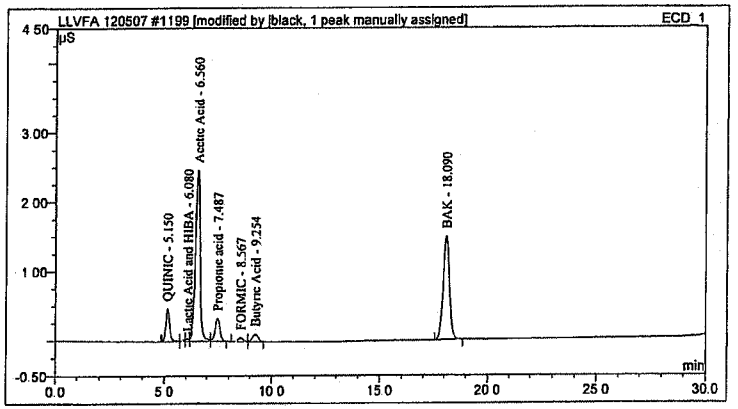
BOE-C6-0188369

MICROSEEPS

Sample Analysis Report

Sample Name:	P0802321-03A 100X	**Sequence No:**	1199
Sequence Name:	LLVFA 120507	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1 0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	3/5/2008 5:08 PM	**Analytical Method:**	AM23G
System Operator:	jblack	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	5.150	0.097	0.475	BM	n.a.
3	Lactic Acid and HIBA	6.080	0.007	0.034	M *	0.0835
4	Acetic Acid	6.560	0.647	2.467	M *	2.7373
5	Propionic acid	7.487	0.086	0.326	MB*	0.5180
6	FORMIC	8.567	0.016	0.049	BM ^	n.a.
7	Butyric Acid	9.254	0.032	0.103	MB	0.2508
8	BAK	18.090	0.514	1.493	BMB	n.a.

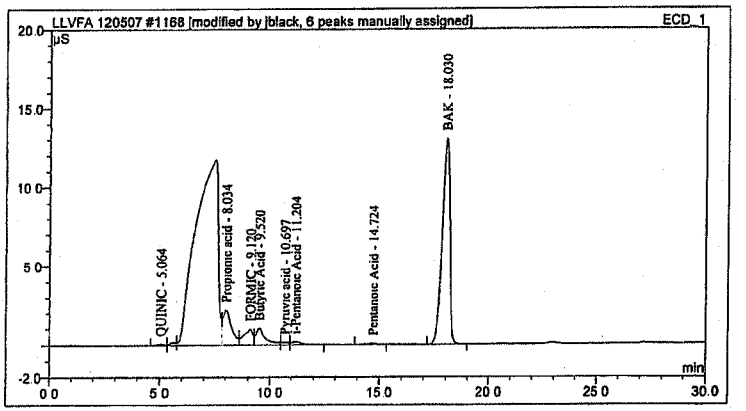


MICROSEEPS

Sample Analysis Report

Sample Name:	P0802321-04A	**Sequence No:**	1168
Sequence Name:	LLVFA 120507	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	3/4/2008 6:32 PM	**Analytical Method:**	AM23G
System Operator:	jblack	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	5.064	0.033	0.077	BM ^	n.a.
4	Propionic acid	8.034	0.993	2.195	M *^	6.0248
5	FORMIC	9.120	0.461	0.991	M ^	n.a.
6	Butyric Acid	9.520	0.526	1.037	M *^	3.6685
7	Pyruvic acid	10.697	0.062	0.152	M *^	0.6089
8	i-Pentanoic Acid	11.204	0.102	0.173	MB*	0.8698
9	Pentanoic Acid	14.724	0.041	0.071	BMB	0.3720
10	BAK	18.030	5.186	13.036	BMB	n.a.



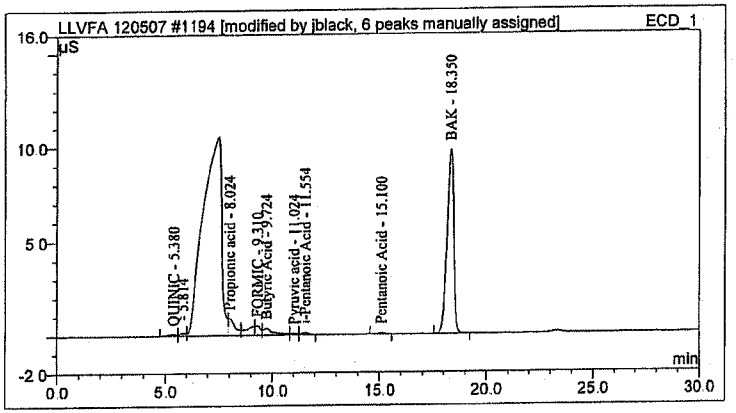
BOE-C6-0188370

MICROSEEPS

Sample Analysis Report

Sample Name:	P0802321-04A RERUN	**Sequence No:**	1194
Sequence Name:	LLVFA 120507	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1 0000
Date Time Collected:	3/5/2008 1:43 PM	**Analytical Method:**	AM23G
System Operator:	jblack	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	5.380	0.039	0.078	BM ^	n.a.
4	Propionic acid	8.024	0.332	0.898	M ^	1.9540
6	FORMIC	9.310	0.137	0.503	M *^	n.a.
7	Butyric Acid	9.724	0.214	0.362	M *^	1.5135
8	Pyruvic acid	11.024	0.027	0.074	M *	0.3225
9	i-Pentanoic Acid	11.554	0.042	0.100	MB*	0.3849
10	Pentanoic Acid	15.100	0.029	0.067	BMB^	0.2778
11	BAK	18.350	3.569	9.749	BMB	n.a.

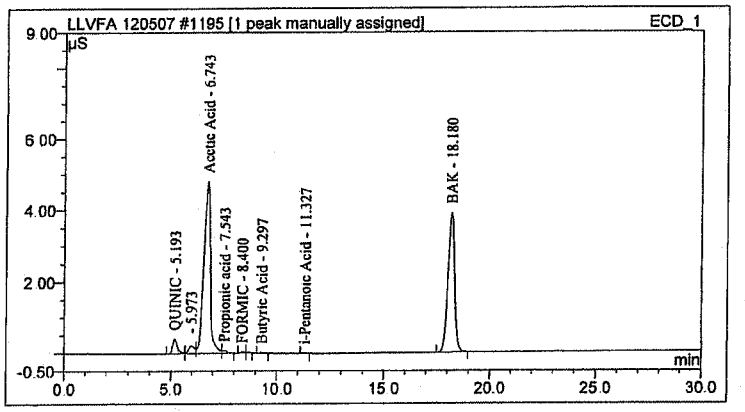


MICROSEEPS

Sample Analysis Report

Sample Name:	P0802321-04A 10X	**Sequence No:**	1195
Sequence Name:	LLVFA 120507	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	3/5/2008 2:24 PM	**Analytical Method:**	AM23G
System Operator:	jblack	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	5.193	0.105	0.411	BM	n.a.
3	Acetic Acid	6.743	1.770	4.809	M	8.2137
4	Propionic acid	7.543	0.019	0.070	MB	0.1342
5	FORMIC	8.400	0.003	0.016	BMb	n.a.
7	Butyric Acid	9.297	0.004	0.013	BMB	0.0571
8	i-Pentanoic Acid	11.327	0.001	0.005	BMB	0.0549
9	BAK	18.180	1.403	3.901	BMB	n.a.



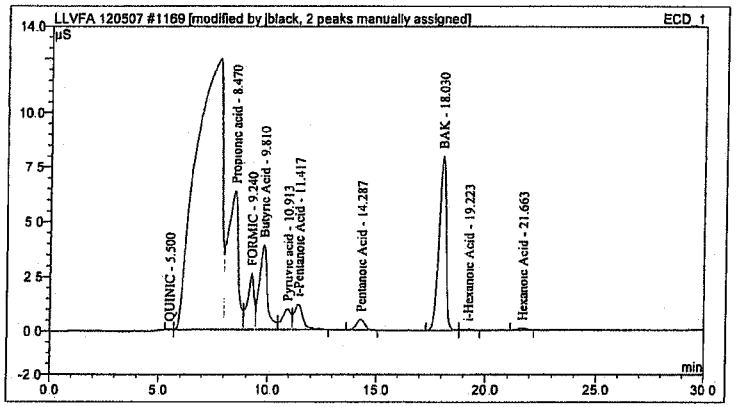
BOE-C6-0188371

MICROSEEPS

Sample Analysis Report

Sample Name:	P0802321-05A	**Sequence No:**	1169
Sequence Name:	LLVFA 120507	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	3/4/2008 7:13 PM	**Analytical Method:**	AM23G
System Operator:	jblack	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	5.500	0.007	0.027	BM	n.a.
3	Propionic acid	8.470	3.557	6.325	M ^	27.4691
4	FORMIC	9.240	0.900	2.581	M ^	n.a.
5	Butyric Acid	9.810	1.746	3.868	M	12.0553
6	Pyruvic acid	10.913	0.432	0.949	M	3.0281
7	I-Pentanoic Acid	11.417	0.544	1.166	MB	4.3016
8	Pentanoic Acid	14.287	0.212	0.471	BMB	1.7837
9	BAK	18.030	2.973	7.957	BM	n.a.
10	i-Hexanoic Acid	19.223	0.022	0.046	MB	0.2794
11	Hexanoic Acid	21.663	0.038	0.082	BMB	0.4676

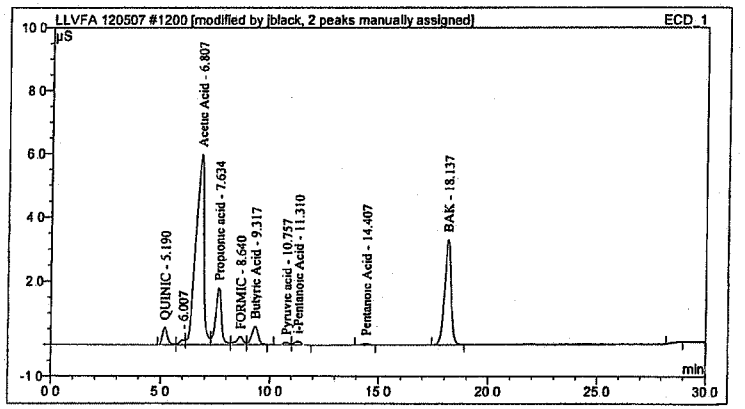


MICROSEEPS

Sample Analysis Report

Sample Name:	P0802321-05A 10X	**Sequence No:**	1200
Sequence Name:	LLVFA 120507	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	3/5/2008 5:49 PM	**Analytical Method:**	AM23G
System Operator:	jblack	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	5.190	0.144	0.547	BM	n.a.
3	Acetic Acid	6.807	2.515	5.985	M	12.6101
4	Propionic acid	7.634	0.568	1.789	M *	3.3688
5	FORMIC	8.640	0.089	0.243	M *	n.a.
6	Butyric Acid	9.317	0.191	0.567	MB	1.3533
7	Pyruvic acid	10.757	0.029	0.073	BM ^	0.3358
8	i-Pentanoic Acid	11.310	0.041	0.104	MB	0.3831
9	Pentanoic Acid	14.407	0.020	0.049	BMB	0.1990
10	BAK	18.137	1.148	3.295	BMB	n.a.



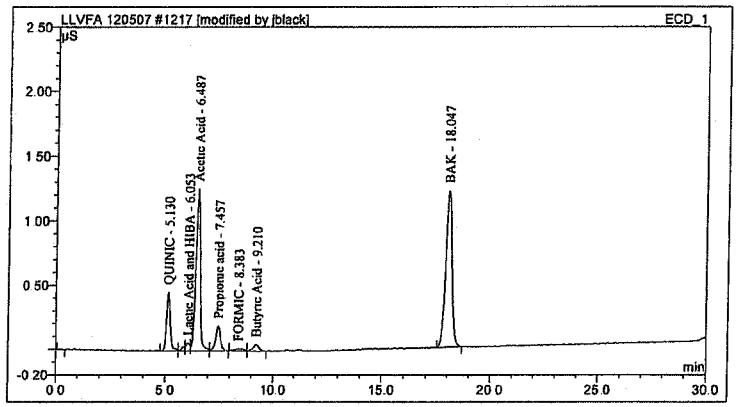
BOE-C6-0188372

MICROSEEPS

Sample Analysis Report

Sample Name:	P0802321-05A 100X	**Sequence No:**	1217
Sequence Name:	LLVFA 120507	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	3/6/2008 6:26 PM	**Analytical Method:**	AM23G
System Operator:	jblack	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
2	QUINIC	5.130	0.091	0.458	BM *	n.a.
4	Lactic Acid and HIBA	6.053	0.013	0.062	M *	0.1166
5	Acetic Acid	6.487	0.300	1.261	M *	1.2297
6	Propionic acid	7.457	0.052	0.194	MB*	0.3258
7	FORMIC	8.383	0.009	0.017	BM *	n.a.
8	Butyric Acid	9.210	0.017	0.052	MB*	0.1518
9	BAK	18.047	0.409	1.218	BMB	n.a.



CHAIN OF CUSTODY RECORD

AV20080226A

Page: 1 of 1

Customer Information

Site: C6

Company: Avocet Environmental, Inc.

Report to: Michael A. Rendina, P.G.

Address: 16 Technology Dr. Suite 154
Irvine
CA
92618

Email: mrendina@avocetenv.com

Project Information

Client Name: Avocet Environmental, Inc

Sampling Event: Feb-2008 B1/36 WDR

Project Number: 1155.003

Project Manager: Michael Rendina

PM Phone #: (949) 296-0977

Field Contact: Darren Brandner

Field Contact #: (949) 870-2655

Lab Name: Test America

Lab Contact: Trupti Mistry

Lab Address: 17461 Derian Ave. #100
Irvine, CA 92614

Lab Phone: (949) 261-1022

Project Information

Collector: DAB

Contact #:

Boeing PM:

Requested Analyses

Sample Name	Matrix	Date	Time	No. of Containers	Anions 300.0 NO2/NO3/Cl/SO4 Water	DHGs RSK175 Ethene/Ethane/Methane Water	TOC 9060 Water	Total Alkalinity 310.1 Water	VFA 8M23G Water	VOCs 8260B C1 Water	Comments
AW0073C_WG20080226_01	Water	2/26/2008	8:38	13	10	10	10	10	10	10	
AW0075UB_WG20080226_01	Water	2/26/2008	10:20	13	10	10	10	10	10	10	
AW0076UB_WG20080226_01	Water	2/26/2008	14:38	13	10	10	10	10	10	10	
AW0077UB_WG20080226_01	Water	2/26/2008	13:00	13	10	10	10	10	10	10	
AW0077UB_WG20080226_02	Water	2/26/2008	13:00	6						10	
EB_WG20080226_01	Water	2/26/2008	10:55	6						10	
EWB002_WG20080226_01	Water	2/26/2008	11:32	13	10	10	10	10	10	10	
TB_WG20080226_01	Water	2/26/2008	—	6						10	

Instructions/TAT

Legend:
Numerical values for analyses equate to turn around time in days

H - Hold
EH - Extract/Extrude & Hold

Note: Values in the cells bellow are Turn Around Times.

1. Relinquished by:	Date:	2. Received by:	Date:	3. Relinquished by:	Date:	4. Received by:	Date:
David Lieberman	2/26/2008						2/26/08
Company: Avocet Environmental, Inc.	Time: 1726	Company: —	Time:	Company:	Time:	Company: TAT	Time:

Comments: Note:1) VFA sample to be delivered to Microseeps Inc., Pittsburgh, PA for analysis by IC Method 8M23G, 2) Include A+A+2CVE for 8260B

Geotracker EDF ☐
Data Validation Package ☐

IRB2567 REV

3/13/08 IRB2567

CHAIN OF CUSTODY RECORD

COC #: AV20080226A

Page: 1 of 1

Customer Information		Project Information		Project Information			
Site:	C6	Client Name:	Avocet Environmental, Inc.	Collector:	DAB	Boeing PM:	
Company:	Avocet Environmental, Inc.	Sampling Event:	Feb-2008 B1/36 WDR	Contact #:			
Report to:	Michael A. Rendina, P.G.	Project Number:	1155.003				
Address:	16 Technology Dr. Suite 154	Project Manager:	Michael Rendina				
		PM Phone #:	(949) 296-0977				
	Irvine	Field Contact:	Darren Brandner				
	CA	Field Contact #:	(949) 870-2655				
	92618	Lab Name:	Test America				
Email:	mrendina@avocetenv.com	Lab Contact:	Trupti Mistry				
		Lab Address:	17461 Derian Ave. #100				
			Irvine, CA 92614				
		Lab Phone:	(949) 261-1022				

Requested Analyses

Instructions/TAT: Legend: Numerical values for analyses equate to turn around time in days. H - Hold. EH - Extract/Extrude & Hold. Note: Values in the cells bellow are Turn Around Times.

Sample Name	Matrix	Date	Time	No. of Containers	Anions 300.0 NO2/NO3/Cl/SO4 Water	DHGs RSK175 Ethane/Ethane/Methane Water	TOC 9060 Water	Total Alkalinity 310.1 Water	VFA 8M23G Water	VOCs 8260B C1 Water	Comments
AW0073C_WG20080226_01	Water	2/26/2008	8:38	13	10	10	10	10	10	10	
AW0075UB_WG20080226_01	Water	2/26/2008	10:20	13	10	10	10	10	10	10	
AW0076UB_WG20080226_01	Water	2/26/2008	14:38	13	10	10	10	10	10	10	
AW0077UB_WG20080226_01	Water	2/26/2008	13:00	13	10	10	10	10	10	10	
AW0077UB_WG20080226_02	Water	2/26/2008	13:00	6						10	
EB_WG20080226_01	Water	2/26/2008	10:55	8						10	
EWB002_WG20080226_01	Water	2/26/2008	11:52	13	10	10	10	10	10	10	
TB_WG20080226_01	Water	2/26/2008	—	6						10	

1. Relinquished by:	Date:	2. Received by:	Date:	3. Relinquished by:	Date:	4. Received by:	Date:
David Lieberman	2/26/2008	—					2/26/08
Company: Avocet Environmental, Inc.	Time: 17:26	Company: —	Time:	Company:	Time:	Company: TAI	Time: 17:26

Comments: Note:1) VFA sample to be delivered to Microseeps Inc., Pittsburgh, PA for analysis by IC Method 8M23G, 2) Include A+A+2CVE for 8260B

Geotracker EDF ☐

Data Validation Package ☐

4.2/7.8

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
17461 Derian Avenue. Suite 100, Irvine, CA 92614 (949) 261-1022 Fax:(949) 260-3297

LABORATORY REPORT

Prepared For: Avocet Environmental Inc.
16 Technology Drive, Suite 154
Irvine, CA 92618
Attention: Michael Rendina

Project: Boeing C-6 Torrance (02/26/08)
1155.006

Sampled: 03/25/08
Received: 03/25/08
Issued: 04/15/08 12:13

NELAP #01108CA California ELAP#1197 CSDLAC #10256

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain(s) of Custody, 2 pages, are included and are an integral part of this report.
This entire report was reviewed and approved for release.

CASE NARRATIVE

SAMPLE RECEIPT: Samples were received intact, at 4°C, on ice and with chain of custody documentation.

HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report.

PRESERVATION: Samples requiring preservation were verified prior to sample analysis. Results were qualified where the sample container did not meet the method preservation requirements.

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.

COMMENTS: Results that fall between the MDL and RL are 'J' flagged.

SUBCONTRACTED: Refer to the last page for specific subcontract laboratory information included in this report.

ADDITIONAL INFORMATION: Please note for sample -13 (EB_AV200803025_01) the laboratory received only 3 vials with HCL; hence analytes Acrolein, Acrylonitrile and 2-chloroethyl vinyl ether have not been reported.

LABORATORY ID	CLIENT ID	MATRIX
IRC1931-01	TB_AVO20080325_01	Water
IRC1931-02	AW0076UB_WG20080325_01	Water
IRC1931-03	EWB002_WG20080325_01	Water
IRC1931-04	AW0075UB_WG20080325_01	Water
IRC1931-05	TMW_07_WG20080325_01	Water
IRC1931-06	AW0067UB_WG20080325_01	Water
IRC1931-07	AW0066UB_WG20080325_01	Water

TestAmerica Irvine

Trupti Mistry
Project Manager

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Avocet Environmental Inc.
16 Technology Drive, Suite 154
Irvine, CA 92618
Attention: Michael Rendina

Project ID: Boeing C-6 Torrance (02/26/08)
1155.006
Report Number: IRC1931

Sampled: 03/25/08
Received: 03/25/08

LABORATORY ID	CLIENT ID	MATRIX
IRC1931-08	AW0055UB_WG20080325_01	Water
IRC1931-09	AW0077UB_WG20080325_01	Water
IRC1931-10	AW0073C_WG20080325_01	Water
IRC1931-11	WCC_12S_WG20080325_01	Water
IRC1931-12	WCC_12S_WG20080325_02	Water
IRC1931-13	EB_AVO20080325_01	Water

Reviewed By:

TestAmerica Irvine

Trupti Mistry
Project Manager

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BOE-C6-0188375

Avocet Environmental Inc.
16 Technology Drive, Suite 154
Irvine, CA 92618
Attention: Michael Rendina

Project ID: Boeing C-6 Torrance (02/26/08)
1155.006
Report Number: IRC1931

Sampled: 03/25/08
Received: 03/25/08

VOLATILE ORGANICS--GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRC1931-01 (TB_AVO20080325_01 - Water)									
Reporting Units: ug/l									
Acrolein	EPA 8260B	8C31021	4.0	5.0	ND	1	03/31/08	04/01/08	
Acrylonitrile	EPA 8260B	8C31021	0.70	2.0	ND	1	03/31/08	04/01/08	
2-Chloroethyl vinyl ether	EPA 8260B	8C31021	1.8	5.0	ND	1	03/31/08	04/01/08	
Surrogate: Dibromofluoromethane (80-120%)					*105 %*				
Surrogate: Toluene-d8 (80-120%)					*93 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)					*93 %*				
Sample ID: IRC1931-02 (AW0076UB_WG20080325_01 - Water)									RL3
Reporting Units: ug/l									
Acrolein	EPA 8260B	8C31021	200	250	ND	50	03/31/08	04/01/08	
Acrylonitrile	EPA 8260B	8C31021	35	100	ND	50	03/31/08	04/01/08	
2-Chloroethyl vinyl ether	EPA 8260B	8C31021	90	250	ND	50	03/31/08	04/01/08	
Surrogate: Dibromofluoromethane (80-120%)					*104 %*				
Surrogate: Toluene-d8 (80-120%)					*96 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)					*94 %*				
Sample ID: IRC1931-03 (EWB002_WG20080325_01 - Water)									RL3
Reporting Units: ug/l									
Acrolein	EPA 8260B	8C31021	80	100	ND	20	03/31/08	04/01/08	
Acrylonitrile	EPA 8260B	8C31021	14	40	ND	20	03/31/08	04/01/08	
2-Chloroethyl vinyl ether	EPA 8260B	8C31021	36	100	ND	20	03/31/08	04/01/08	
Surrogate: Dibromofluoromethane (80-120%)					*105 %*				
Surrogate: Toluene-d8 (80-120%)					*96 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)					*92 %*				
Sample ID: IRC1931-04 (AW0075UB_WG20080325_01 - Water)									RL3
Reporting Units: ug/l									
Acrolein	EPA 8260B	8C31021	200	250	ND	50	03/31/08	04/01/08	
Acrylonitrile	EPA 8260B	8C31021	35	100	ND	50	03/31/08	04/01/08	
2-Chloroethyl vinyl ether	EPA 8260B	8C31021	90	250	ND	50	03/31/08	04/01/08	
Surrogate: Dibromofluoromethane (80-120%)					*104 %*				
Surrogate: Toluene-d8 (80-120%)					*96 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)					*93 %*				
Sample ID: IRC1931-05 (TMW_07_WG20080325_01 - Water)									RL3
Reporting Units: ug/l									
Acrolein	EPA 8260B	8C31021	20	25	ND	5	03/31/08	04/01/08	
Acrylonitrile	EPA 8260B	8C31021	3.5	10	ND	5	03/31/08	04/01/08	
2-Chloroethyl vinyl ether	EPA 8260B	8C31021	9.0	25	ND	5	03/31/08	04/01/08	
Surrogate: Dibromofluoromethane (80-120%)					*104 %*				
Surrogate: Toluene-d8 (80-120%)					*93 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)					*92 %*				

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Trupti Mistry
Project Manager

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Avocet Environmental Inc.
16 Technology Drive, Suite 154
Irvine, CA 92618
Attention: Michael Rendina

Project ID: Boeing C-6 Torrance (02/26/08)
1155.006
Report Number: IRC1931

Sampled: 03/25/08
Received: 03/25/08

VOLATILE ORGANICS--GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRC1931-06 (AW0067UB_WG20080325_01 - Water)									RL3
Reporting Units: ug/l									
Acrolein	EPA 8260B	8C27021	16	20	ND	4	03/27/08	03/27/08	
Acrylonitrile	EPA 8260B	8C27021	2.8	8.0	ND	4	03/27/08	03/27/08	
2-Chloroethyl vinyl ether	EPA 8260B	8C27021	7.2	20	ND	4	03/27/08	03/27/08	
Surrogate: Dibromofluoromethane (80-120%)					*93 %*				
Surrogate: Toluene-d8 (80-120%)					*96 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)					*93 %*				
Sample ID: IRC1931-07 (AW0066UB_WG20080325_01 - Water)									
Reporting Units: ug/l									
Acrolein	EPA 8260B	8C27021	4.0	5.0	ND	1	03/27/08	03/28/08	
Acrylonitrile	EPA 8260B	8C27021	0.70	2.0	ND	1	03/27/08	03/28/08	
2-Chloroethyl vinyl ether	EPA 8260B	8C27021	1.8	5.0	ND	1	03/27/08	03/28/08	
Surrogate: Dibromofluoromethane (80-120%)					*93 %*				
Surrogate: Toluene-d8 (80-120%)					*98 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)					*90 %*				
Sample ID: IRC1931-08 (AW0055UB_WG20080325_01 - Water)									RL3
Reporting Units: ug/l									
Acrolein	EPA 8260B	8C27021	160	200	ND	40	03/27/08	03/28/08	
Acrylonitrile	EPA 8260B	8C27021	28	80	ND	40	03/27/08	03/28/08	
2-Chloroethyl vinyl ether	EPA 8260B	8C27021	72	200	ND	40	03/27/08	03/28/08	
Surrogate: Dibromofluoromethane (80-120%)					*94 %*				
Surrogate: Toluene-d8 (80-120%)					*96 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)					*90 %*				
Sample ID: IRC1931-09 (AW0077UB_WG20080325_01 - Water)									RL3
Reporting Units: ug/l									
Acrolein	EPA 8260B	8C29007	80	100	ND	20	03/29/08	03/29/08	
Acrylonitrile	EPA 8260B	8C29007	14	40	ND	20	03/29/08	03/29/08	
2-Chloroethyl vinyl ether	EPA 8260B	8C29007	36	100	ND	20	03/29/08	03/29/08	
Surrogate: Dibromofluoromethane (80-120%)					*95 %*				
Surrogate: Toluene-d8 (80-120%)					*95 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)					*94 %*				
Sample ID: IRC1931-10 (AW0073C_WG20080325_01 - Water)									RL3
Reporting Units: ug/l									
Acrolein	EPA 8260B	8C29007	80	100	ND	20	03/29/08	03/29/08	
Acrylonitrile	EPA 8260B	8C29007	14	40	ND	20	03/29/08	03/29/08	
2-Chloroethyl vinyl ether	EPA 8260B	8C29007	36	100	ND	20	03/29/08	03/29/08	
Surrogate: Dibromofluoromethane (80-120%)					*91 %*				
Surrogate: Toluene-d8 (80-120%)					*94 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)					*93 %*				

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Trupti Mistry
Project Manager

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BOE-C6-0188376

Avocet Environmental Inc.
16 Technology Drive, Suite 154
Irvine, CA 92618
Attention: Michael Rendina

Project ID: Boeing C-6 Torrance (02/26/08)
1155.006
Report Number: IRC1931

Sampled: 03/25/08
Received: 03/25/08

VOLATILE ORGANICS--GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRC1931-11 (WCC_12S_WG20080325_01 - Water)									
Reporting Units: ug/l									
Acrolein	EPA 8260B	8C31021	4.0	5.0	ND	1	03/31/08	04/01/08	
Acrylonitrile	EPA 8260B	8C31021	0.70	2.0	ND	1	03/31/08	04/01/08	
2-Chloroethyl vinyl ether	EPA 8260B	8C31021	1.8	5.0	ND	1	03/31/08	04/01/08	
Surrogate: Dibromofluoromethane (80-120%)					*107 %*				
Surrogate: Toluene-d8 (80-120%)					*94 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)					*94 %*				
Sample ID: IRC1931-12 (WCC_12S_WG20080325_02 - Water)									
Reporting Units: ug/l									
Acrolein	EPA 8260B	8C31021	4.0	5.0	ND	1	03/31/08	04/01/08	
Acrylonitrile	EPA 8260B	8C31021	0.70	2.0	ND	1	03/31/08	04/01/08	
2-Chloroethyl vinyl ether	EPA 8260B	8C31021	1.8	5.0	ND	1	03/31/08	04/01/08	
Surrogate: Dibromofluoromethane (80-120%)					*105 %*				
Surrogate: Toluene-d8 (80-120%)					*94 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)					*93 %*				

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Project Manager

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Avocet Environmental Inc.
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Irvine, CA 92618
Attention: Michael Rendina

Project ID: Boeing C-6 Torrance (02/26/08)
1155.006
Report Number: IRC1931

Sampled: 03/25/08
Received: 03/25/08

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRC1931-01 (TB_AVO20080325_01 - Water)									
Reporting Units: ug/l									
Acetone	EPA 8260B	8C27012	4.5	10	**13**	1	03/27/08	03/27/08	
tert-Amyl Methyl Ether (TAME)	EPA 8260B	8C27012	0.33	2.0	ND	1	03/27/08	03/27/08	
Benzene	EPA 8260B	8C27012	0.28	0.50	ND	1	03/27/08	03/27/08	
Bromobenzene	EPA 8260B	8C27012	0.27	1.0	ND	1	03/27/08	03/27/08	
Bromochloromethane	EPA 8260B	8C27012	0.40	1.0	ND	1	03/27/08	03/27/08	
Bromodichloromethane	EPA 8260B	8C27012	0.30	1.0	ND	1	03/27/08	03/27/08	
Bromoform	EPA 8260B	8C27012	0.40	1.0	ND	1	03/27/08	03/27/08	
Bromomethane	EPA 8260B	8C27012	0.42	1.0	ND	1	03/27/08	03/27/08	
tert-Butanol (TBA)	EPA 8260B	8C27012	6.5	25	ND	1	03/27/08	03/27/08	
2-Butanone (MEK)	EPA 8260B	8C27012	4.7	5.0	ND	1	03/27/08	03/27/08	
tert-Butylbenzene	EPA 8260B	8C27012	0.22	1.0	ND	1	03/27/08	03/27/08	
n-Butylbenzene	EPA 8260B	8C27012	0.37	1.0	ND	1	03/27/08	03/27/08	
sec-Butylbenzene	EPA 8260B	8C27012	0.25	1.0	ND	1	03/27/08	03/27/08	
Carbon Disulfide	EPA 8260B	8C27012	0.48	1.0	ND	1	03/27/08	03/27/08	
Carbon tetrachloride	EPA 8260B	8C27012	0.28	0.50	ND	1	03/27/08	03/27/08	
Chlorobenzene	EPA 8260B	8C27012	0.36	1.0	ND	1	03/27/08	03/27/08	
Chloroethane	EPA 8260B	8C27012	0.40	2.0	ND	1	03/27/08	03/27/08	
Chloroform	EPA 8260B	8C27012	0.33	1.0	ND	1	03/27/08	03/27/08	
Chloromethane	EPA 8260B	8C27012	0.40	2.0	ND	1	03/27/08	03/27/08	
2-Chlorotoluene	EPA 8260B	8C27012	0.28	1.0	ND	1	03/27/08	03/27/08	
4-Chlorotoluene	EPA 8260B	8C27012	0.29	1.0	ND	1	03/27/08	03/27/08	
1,2-Dibromo-3-chloropropane	EPA 8260B	8C27012	0.97	2.0	ND	1	03/27/08	03/27/08	
Dibromochloromethane	EPA 8260B	8C27012	0.40	1.0	ND	1	03/27/08	03/27/08	
1,2-Dibromoethane (EDB)	EPA 8260B	8C27012	0.40	1.0	ND	1	03/27/08	03/27/08	
1,3-Dichlorobenzene	EPA 8260B	8C27012	0.35	1.0	ND	1	03/27/08	03/27/08	
1,4-Dichlorobenzene	EPA 8260B	8C27012	0.37	1.0	ND	1	03/27/08	03/27/08	
1,2-Dichlorobenzene	EPA 8260B	8C27012	0.32	1.0	ND	1	03/27/08	03/27/08	
Dichlorodifluoromethane	EPA 8260B	8C27012	0.26	1.0	ND	1	03/27/08	03/27/08	
1,1-Dichloroethane	EPA 8260B	8C27012	0.40	1.0	ND	1	03/27/08	03/27/08	
1,2-Dichloroethane	EPA 8260B	8C27012	0.28	0.50	ND	1	03/27/08	03/27/08	
cis-1,2-Dichloroethene	EPA 8260B	8C27012	0.32	1.0	ND	1	03/27/08	03/27/08	
1,1-Dichloroethene	EPA 8260B	8C27012	0.42	1.0	ND	1	03/27/08	03/27/08	
trans-1,2-Dichloroethene	EPA 8260B	8C27012	0.30	1.0	ND	1	03/27/08	03/27/08	
2,2-Dichloropropane	EPA 8260B	8C27012	0.34	1.0	ND	1	03/27/08	03/27/08	
1,2-Dichloropropane	EPA 8260B	8C27012	0.35	1.0	ND	1	03/27/08	03/27/08	
cis-1,3-Dichloropropene	EPA 8260B	8C27012	0.22	0.50	ND	1	03/27/08	03/27/08	
1,1-Dichloropropene	EPA 8260B	8C27012	0.28	1.0	ND	1	03/27/08	03/27/08	
trans-1,3-Dichloropropene	EPA 8260B	8C27012	0.32	0.50	ND	1	03/27/08	03/27/08	
Di-isopropyl Ether (DIPE)	EPA 8260B	8C27012	0.25	2.0	ND	1	03/27/08	03/27/08	
Ethylbenzene	EPA 8260B	8C27012	0.25	1.0	ND	1	03/27/08	03/27/08	
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	8C27012	0.28	2.0	ND	1	03/27/08	03/27/08	

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Trupti Mistry
Project Manager

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BOE-C6-0188377

Avocet Environmental Inc.
16 Technology Drive, Suite 154
Irvine, CA 92618
Attention: Michael Rendina

Project ID: Boeing C-6 Torrance (02/26/08)
1155.006
Report Number: IRC1931

Sampled: 03/25/08
Received: 03/25/08

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRC1931-01 (TB_AVO20080325_01 - Water) - cont.									
Reporting Units: ug/l									
Hexachlorobutadiene	EPA 8260B	8C27012	0.38	1.0	ND	1	03/27/08	03/27/08	
2-Hexanone	EPA 8260B	8C27012	2.6	6.0	ND	1	03/27/08	03/27/08	
Iodomethane	EPA 8260B	8C27012	1.0	2.0	ND	1	03/27/08	03/27/08	
Isopropylbenzene	EPA 8260B	8C27012	0.25	1.0	ND	1	03/27/08	03/27/08	
p-Isopropyltoluene	EPA 8260B	8C27012	0.28	1.0	ND	1	03/27/08	03/27/08	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	8C27012	0.32	1.0	ND	1	03/27/08	03/27/08	
Methylene chloride	EPA 8260B	8C27012	0.95	1.0	ND	1	03/27/08	03/27/08	
4-Methyl-2-pentanone (MIBK)	EPA 8260B	8C27012	3.5	5.0	ND	1	03/27/08	03/27/08	
n-Propylbenzene	EPA 8260B	8C27012	0.27	1.0	ND	1	03/27/08	03/27/08	
Styrene	EPA 8260B	8C27012	0.20	1.0	ND	1	03/27/08	03/27/08	
1,1,1,2-Tetrachloroethane	EPA 8260B	8C27012	0.27	1.0	ND	1	03/27/08	03/27/08	
1,1,2,2-Tetrachloroethane	EPA 8260B	8C27012	0.30	1.0	ND	1	03/27/08	03/27/08	
Tetrachloroethene	EPA 8260B	8C27012	0.32	1.0	ND	1	03/27/08	03/27/08	
Tetrahydrofuran (THF)	EPA 8260B	8C27012	3.5	10	ND	1	03/27/08	03/27/08	
Toluene	EPA 8260B	8C27012	0.36	1.0	ND	1	03/27/08	03/27/08	
1,2,3-Trichlorobenzene	EPA 8260B	8C27012	0.30	1.0	ND	1	03/27/08	03/27/08	
1,2,4-Trichlorobenzene	EPA 8260B	8C27012	0.48	1.0	ND	1	03/27/08	03/27/08	
1,1,1-Trichloroethane	EPA 8260B	8C27012	0.30	1.0	ND	1	03/27/08	03/27/08	
1,1,2-Trichloroethane	EPA 8260B	8C27012	0.30	1.0	ND	1	03/27/08	03/27/08	
Trichloroethene	EPA 8260B	8C27012	0.26	1.0	ND	1	03/27/08	03/27/08	
Trichlorofluoromethane	EPA 8260B	8C27012	0.34	2.0	ND	1	03/27/08	03/27/08	
1,2,3-Trichloropropane	EPA 8260B	8C27012	0.40	1.0	ND	1	03/27/08	03/27/08	
1,3,5-Trimethylbenzene	EPA 8260B	8C27012	0.26	1.0	ND	1	03/27/08	03/27/08	
1,2,4-Trimethylbenzene	EPA 8260B	8C27012	0.23	1.0	ND	1	03/27/08	03/27/08	
Vinyl acetate	EPA 8260B	8C27012	1.0	6.0	ND	1	03/27/08	03/27/08	
Vinyl chloride	EPA 8260B	8C27012	0.40	0.50	ND	1	03/27/08	03/27/08	
o-Xylene	EPA 8260B	8C27012	0.30	0.50	ND	1	03/27/08	03/27/08	
Xylenes, Total	EPA 8260B	8C27012	0.90	1.0	ND	1	03/27/08	03/27/08	
m,p-Xylenes	EPA 8260B	8C27012	0.60	1.0	ND	1	03/27/08	03/27/08	
Surrogate: Dibromofluoromethane (80-120%)					*101 %*				
Surrogate: Toluene-d8 (80-120%)					*99 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)					*95 %*				

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17461 Derian Avenue. Suite 100, Irvine, CA 92614 (949) 261-1022 Fax:(949) 260-3297

Avocet Environmental Inc.
16 Technology Drive, Suite 154
Irvine, CA 92618
Attention: Michael Rendina

Project ID: Boeing C-6 Torrance (02/26/08)
1155.006
Report Number: IRC1931

Sampled: 03/25/08
Received: 03/25/08

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRC1931-02 (AW0076UB_WG20080325_01 - Water)									
Reporting Units: ug/l									
2-Butanone (MEK)	EPA 8260B	8C27012	2400	2500	**64000**	500	03/27/08	03/27/08	
Vinyl chloride	EPA 8260B	8C27012	200	250	**11000**	500	03/27/08	03/27/08	
Surrogate: Dibromofluoromethane (80-120%)					*101 %*				
Surrogate: Toluene-d8 (80-120%)					*100 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)					*92 %*				
Sample ID: IRC1931-02RE1 (AW0076UB_WG20080325_01 - Water)									
Reporting Units: ug/l									
Acetone	EPA 8260B	8C27012	220	500	**9200**	50	03/27/08	03/27/08	
tert-Amyl Methyl Ether (TAME)	EPA 8260B	8C27012	16	100	ND	50	03/27/08	03/27/08	
Benzene	EPA 8260B	8C27012	14	25	**42**	50	03/27/08	03/27/08	
Bromobenzene	EPA 8260B	8C27012	14	50	ND	50	03/27/08	03/27/08	
Bromochloromethane	EPA 8260B	8C27012	20	50	ND	50	03/27/08	03/27/08	
Bromodichloromethane	EPA 8260B	8C27012	15	50	ND	50	03/27/08	03/27/08	
Bromoform	EPA 8260B	8C27012	20	50	ND	50	03/27/08	03/27/08	
Bromomethane	EPA 8260B	8C27012	21	50	ND	50	03/27/08	03/27/08	
tert-Butanol (TBA)	EPA 8260B	8C27012	320	1200	ND	50	03/27/08	03/27/08	
tert-Butylbenzene	EPA 8260B	8C27012	11	50	ND	50	03/27/08	03/27/08	
n-Butylbenzene	EPA 8260B	8C27012	18	50	ND	50	03/27/08	03/27/08	
sec-Butylbenzene	EPA 8260B	8C27012	12	50	ND	50	03/27/08	03/27/08	
Carbon Disulfide	EPA 8260B	8C27012	24	50	ND	50	03/27/08	03/27/08	
Carbon tetrachloride	EPA 8260B	8C27012	14	25	ND	50	03/27/08	03/27/08	
Chlorobenzene	EPA 8260B	8C27012	18	50	ND	50	03/27/08	03/27/08	
Chloroethane	EPA 8260B	8C27012	20	100	ND	50	03/27/08	03/27/08	
Chloroform	EPA 8260B	8C27012	16	50	ND	50	03/27/08	03/27/08	
Chloromethane	EPA 8260B	8C27012	20	100	ND	50	03/27/08	03/27/08	
2-Chlorotoluene	EPA 8260B	8C27012	14	50	ND	50	03/27/08	03/27/08	
4-Chlorotoluene	EPA 8260B	8C27012	14	50	ND	50	03/27/08	03/27/08	
1,2-Dibromo-3-chloropropane	EPA 8260B	8C27012	48	100	ND	50	03/27/08	03/27/08	
Dibromochloromethane	EPA 8260B	8C27012	20	50	ND	50	03/27/08	03/27/08	
1,2-Dibromoethane (EDB)	EPA 8260B	8C27012	20	50	ND	50	03/27/08	03/27/08	
1,3-Dichlorobenzene	EPA 8260B	8C27012	18	50	ND	50	03/27/08	03/27/08	
1,4-Dichlorobenzene	EPA 8260B	8C27012	18	50	ND	50	03/27/08	03/27/08	
1,2-Dichlorobenzene	EPA 8260B	8C27012	16	50	ND	50	03/27/08	03/27/08	
Dichlorodifluoromethane	EPA 8260B	8C27012	13	50	ND	50	03/27/08	03/27/08	
1,1-Dichloroethane	EPA 8260B	8C27012	20	50	**510**	50	03/27/08	03/27/08	
1,2-Dichloroethane	EPA 8260B	8C27012	14	25	**130**	50	03/27/08	03/27/08	
cis-1,2-Dichloroethene	EPA 8260B	8C27012	16	50	**2000**	50	03/27/08	03/27/08	
1,1-Dichloroethene	EPA 8260B	8C27012	21	50	**1300**	50	03/27/08	03/27/08	
trans-1,2-Dichloroethene	EPA 8260B	8C27012	15	50	**220**	50	03/27/08	03/27/08	
2,2-Dichloropropane	EPA 8260B	8C27012	17	50	ND	50	03/27/08	03/27/08	

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BOE-C6-0188378

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Avocet Environmental Inc.
16 Technology Drive, Suite 154
Irvine, CA 92618
Attention: Michael Rendina

Project ID: Boeing C-6 Torrance (02/26/08)
1155.006
Report Number: IRC1931

Sampled: 03/25/08
Received: 03/25/08

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRC1931-02RE1 (AW0076UB_WG20080325_01 - Water) - cont.									
Reporting Units: ug/l									
1,2-Dichloropropane	EPA 8260B	8C27012	18	50	ND	50	03/27/08	03/27/08	
cis-1,3-Dichloropropene	EPA 8260B	8C27012	11	25	ND	50	03/27/08	03/27/08	
1,1-Dichloropropene	EPA 8260B	8C27012	14	50	ND	50	03/27/08	03/27/08	
trans-1,3-Dichloropropene	EPA 8260B	8C27012	16	25	ND	50	03/27/08	03/27/08	
Di-isopropyl Ether (DIPE)	EPA 8260B	8C27012	12	100	ND	50	03/27/08	03/27/08	
Ethylbenzene	EPA 8260B	8C27012	12	50	ND	50	03/27/08	03/27/08	
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	8C27012	14	100	ND	50	03/27/08	03/27/08	
Hexachlorobutadiene	EPA 8260B	8C27012	19	50	ND	50	03/27/08	03/27/08	
2-Hexanone	EPA 8260B	8C27012	130	300	ND	50	03/27/08	03/27/08	
Iodomethane	EPA 8260B	8C27012	50	100	ND	50	03/27/08	03/27/08	
Isopropylbenzene	EPA 8260B	8C27012	12	50	ND	50	03/27/08	03/27/08	
p-Isopropyltoluene	EPA 8260B	8C27012	14	50	ND	50	03/27/08	03/27/08	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	8C27012	16	50	ND	50	03/27/08	03/27/08	
Methylene chloride	EPA 8260B	8C27012	48	50	ND	50	03/27/08	03/27/08	
4-Methyl-2-pentanone (MIBK)	EPA 8260B	8C27012	180	250	**7700**	50	03/27/08	03/27/08	
n-Propylbenzene	EPA 8260B	8C27012	14	50	ND	50	03/27/08	03/27/08	
Styrene	EPA 8260B	8C27012	10	50	ND	50	03/27/08	03/27/08	
1,1,1,2-Tetrachloroethane	EPA 8260B	8C27012	14	50	ND	50	03/27/08	03/27/08	
1,1,2,2-Tetrachloroethane	EPA 8260B	8C27012	15	50	ND	50	03/27/08	03/27/08	
Tetrachloroethene	EPA 8260B	8C27012	16	50	ND	50	03/27/08	03/27/08	
Tetrahydrofuran (THF)	EPA 8260B	8C27012	180	500	ND	50	03/27/08	03/27/08	
Toluene	EPA 8260B	8C27012	18	50	**4400**	50	03/27/08	03/27/08	
1,2,3-Trichlorobenzene	EPA 8260B	8C27012	15	50	ND	50	03/27/08	03/27/08	
1,2,4-Trichlorobenzene	EPA 8260B	8C27012	24	50	ND	50	03/27/08	03/27/08	
1,1,1-Trichloroethane	EPA 8260B	8C27012	15	50	ND	50	03/27/08	03/27/08	
1,1,2-Trichloroethane	EPA 8260B	8C27012	15	50	**72**	50	03/27/08	03/27/08	
Trichloroethene	EPA 8260B	8C27012	13	50	ND	50	03/27/08	03/27/08	
Trichlorofluoromethane	EPA 8260B	8C27012	17	100	ND	50	03/27/08	03/27/08	
1,2,3-Trichloropropane	EPA 8260B	8C27012	20	50	ND	50	03/27/08	03/27/08	
1,3,5-Trimethylbenzene	EPA 8260B	8C27012	13	50	ND	50	03/27/08	03/27/08	
1,2,4-Trimethylbenzene	EPA 8260B	8C27012	12	50	ND	50	03/27/08	03/27/08	
Vinyl acetate	EPA 8260B	8C27012	50	300	ND	50	03/27/08	03/27/08	
o-Xylene	EPA 8260B	8C27012	15	25	**24**	50	03/27/08	03/27/08	Jb
Xylenes, Total	EPA 8260B	8C27012	45	50	**70**	50	03/27/08	03/27/08	
m,p-Xylenes	EPA 8260B	8C27012	30	50	**46**	50	03/27/08	03/27/08	Jb
Surrogate: Dibromofluoromethane (80-120%)					*101 %*				
Surrogate: Toluene-d8 (80-120%)					*98 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)					*93 %*				

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Avocet Environmental Inc.
16 Technology Drive, Suite 154
Irvine, CA 92618
Attention: Michael Rendina

Project ID: Boeing C-6 Torrance (02/26/08)
1155.006
Report Number: IRC1931

Sampled: 03/25/08
Received: 03/25/08

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRC1931-03 (EWB002_WG20080325_01 - Water)									
Reporting Units: ug/l									
Vinyl chloride	EPA 8260B	8C27012	40	50	**6800**	100	03/27/08	03/27/08	
Surrogate: Dibromofluoromethane (80-120%)					*101 %*				
Surrogate: Toluene-d8 (80-120%)					*100 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)					*94 %*				
Sample ID: IRC1931-03RE1 (EWB002_WG20080325_01 - Water)									
Reporting Units: ug/l									
Acetone	EPA 8260B	8C27012	90	200	**320**	20	03/27/08	03/27/08	
tert-Amyl Methyl Ether (TAME)	EPA 8260B	8C27012	6.6	40	ND	20	03/27/08	03/27/08	
Benzene	EPA 8260B	8C27012	5.6	10	**20**	20	03/27/08	03/27/08	
Bromobenzene	EPA 8260B	8C27012	5.4	20	ND	20	03/27/08	03/27/08	
Bromochloromethane	EPA 8260B	8C27012	8.0	20	ND	20	03/27/08	03/27/08	
Bromodichloromethane	EPA 8260B	8C27012	6.0	20	ND	20	03/27/08	03/27/08	
Bromoform	EPA 8260B	8C27012	8.0	20	ND	20	03/27/08	03/27/08	
Bromomethane	EPA 8260B	8C27012	8.4	20	ND	20	03/27/08	03/27/08	
tert-Butanol (TBA)	EPA 8260B	8C27012	130	500	ND	20	03/27/08	03/27/08	
2-Butanone (MEK)	EPA 8260B	8C27012	94	100	**960**	20	03/27/08	03/27/08	
tert-Butylbenzene	EPA 8260B	8C27012	4.4	20	ND	20	03/27/08	03/27/08	
n-Butylbenzene	EPA 8260B	8C27012	7.4	20	ND	20	03/27/08	03/27/08	
sec-Butylbenzene	EPA 8260B	8C27012	5.0	20	ND	20	03/27/08	03/27/08	
Carbon Disulfide	EPA 8260B	8C27012	9.6	20	ND	20	03/27/08	03/27/08	
Carbon tetrachloride	EPA 8260B	8C27012	5.6	10	ND	20	03/27/08	03/27/08	
Chlorobenzene	EPA 8260B	8C27012	7.2	20	ND	20	03/27/08	03/27/08	
Chloroethane	EPA 8260B	8C27012	8.0	40	ND	20	03/27/08	03/27/08	
Chloroform	EPA 8260B	8C27012	6.6	20	ND	20	03/27/08	03/27/08	
Chloromethane	EPA 8260B	8C27012	8.0	40	ND	20	03/27/08	03/27/08	
2-Chlorotoluene	EPA 8260B	8C27012	5.6	20	ND	20	03/27/08	03/27/08	
4-Chlorotoluene	EPA 8260B	8C27012	5.8	20	ND	20	03/27/08	03/27/08	
1,2-Dibromo-3-chloropropane	EPA 8260B	8C27012	19	40	ND	20	03/27/08	03/27/08	
Dibromochloromethane	EPA 8260B	8C27012	8.0	20	ND	20	03/27/08	03/27/08	
1,2-Dibromoethane (EDB)	EPA 8260B	8C27012	8.0	20	ND	20	03/27/08	03/27/08	
1,3-Dichlorobenzene	EPA 8260B	8C27012	7.0	20	ND	20	03/27/08	03/27/08	
1,4-Dichlorobenzene	EPA 8260B	8C27012	7.4	20	ND	20	03/27/08	03/27/08	
1,2-Dichlorobenzene	EPA 8260B	8C27012	6.4	20	ND	20	03/27/08	03/27/08	
Dichlorodifluoromethane	EPA 8260B	8C27012	5.2	20	ND	20	03/27/08	03/27/08	
1,1-Dichloroethane	EPA 8260B	8C27012	8.0	20	**180**	20	03/27/08	03/27/08	
1,2-Dichloroethane	EPA 8260B	8C27012	5.6	10	**31**	20	03/27/08	03/27/08	
cis-1,2-Dichloroethene	EPA 8260B	8C27012	6.4	20	**12**	20	03/27/08	03/27/08	Jb
1,1-Dichloroethene	EPA 8260B	8C27012	8.4	20	**18**	20	03/27/08	03/27/08	Jb
trans-1,2-Dichloroethene	EPA 8260B	8C27012	6.0	20	**120**	20	03/27/08	03/27/08	
2,2-Dichloropropane	EPA 8260B	8C27012	6.8	20	ND	20	03/27/08	03/27/08	

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BOE-C6-0188379

Avocet Environmental Inc.
16 Technology Drive, Suite 154
Irvine, CA 92618
Attention: Michael Rendina

Project ID: Boeing C-6 Torrance (02/26/08)
1155.006
Report Number: IRC1931

Sampled: 03/25/08
Received: 03/25/08

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRC1931-03RE1 (EWB002_WG20080325_01 - Water) - cont.									
Reporting Units: ug/l									
1,2-Dichloropropane	EPA 8260B	8C27012	7.0	20	ND	20	03/27/08	03/27/08	
cis-1,3-Dichloropropene	EPA 8260B	8C27012	4.4	10	ND	20	03/27/08	03/27/08	
1,1-Dichloropropene	EPA 8260B	8C27012	5.6	20	ND	20	03/27/08	03/27/08	
trans-1,3-Dichloropropene	EPA 8260B	8C27012	6.4	10	ND	20	03/27/08	03/27/08	
Di-isopropyl Ether (DIPE)	EPA 8260B	8C27012	5.0	40	ND	20	03/27/08	03/27/08	
Ethylbenzene	EPA 8260B	8C27012	5.0	20	ND	20	03/27/08	03/27/08	
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	8C27012	5.6	40	ND	20	03/27/08	03/27/08	
Hexachlorobutadiene	EPA 8260B	8C27012	7.6	20	ND	20	03/27/08	03/27/08	
2-Hexanone	EPA 8260B	8C27012	52	120	ND	20	03/27/08	03/27/08	
Iodomethane	EPA 8260B	8C27012	20	40	ND	20	03/27/08	03/27/08	
Isopropylbenzene	EPA 8260B	8C27012	5.0	20	ND	20	03/27/08	03/27/08	
p-Isopropyltoluene	EPA 8260B	8C27012	5.6	20	ND	20	03/27/08	03/27/08	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	8C27012	6.4	20	ND	20	03/27/08	03/27/08	
Methylene chloride	EPA 8260B	8C27012	19	20	ND	20	03/27/08	03/27/08	
4-Methyl-2-pentanone (MIBK)	EPA 8260B	8C27012	70	100	**420**	20	03/27/08	03/27/08	
n-Propylbenzene	EPA 8260B	8C27012	5.4	20	ND	20	03/27/08	03/27/08	
Styrene	EPA 8260B	8C27012	4.0	20	ND	20	03/27/08	03/27/08	
1,1,1,2-Tetrachloroethane	EPA 8260B	8C27012	5.4	20	ND	20	03/27/08	03/27/08	
1,1,2,2-Tetrachloroethane	EPA 8260B	8C27012	6.0	20	ND	20	03/27/08	03/27/08	
Tetrachloroethene	EPA 8260B	8C27012	6.4	20	ND	20	03/27/08	03/27/08	
Tetrahydrofuran (THF)	EPA 8260B	8C27012	70	200	ND	20	03/27/08	03/27/08	
Toluene	EPA 8260B	8C27012	7.2	20	**810**	20	03/27/08	03/27/08	
1,2,3-Trichlorobenzene	EPA 8260B	8C27012	6.0	20	ND	20	03/27/08	03/27/08	
1,2,4-Trichlorobenzene	EPA 8260B	8C27012	9.6	20	ND	20	03/27/08	03/27/08	
1,1,1-Trichloroethane	EPA 8260B	8C27012	6.0	20	ND	20	03/27/08	03/27/08	
1,1,2-Trichloroethane	EPA 8260B	8C27012	6.0	20	**17**	20	03/27/08	03/27/08	Jb
Trichloroethene	EPA 8260B	8C27012	5.2	20	ND	20	03/27/08	03/27/08	
Trichlorofluoromethane	EPA 8260B	8C27012	6.8	40	ND	20	03/27/08	03/27/08	
1,2,3-Trichloropropane	EPA 8260B	8C27012	8.0	20	ND	20	03/27/08	03/27/08	
1,3,5-Trimethylbenzene	EPA 8260B	8C27012	5.2	20	ND	20	03/27/08	03/27/08	
1,2,4-Trimethylbenzene	EPA 8260B	8C27012	4.6	20	ND	20	03/27/08	03/27/08	
Vinyl acetate	EPA 8260B	8C27012	20	120	ND	20	03/27/08	03/27/08	
o-Xylene	EPA 8260B	8C27012	6.0	10	ND	20	03/27/08	03/27/08	
Xylenes, Total	EPA 8260B	8C27012	18	20	ND	20	03/27/08	03/27/08	
m,p-Xylenes	EPA 8260B	8C27012	12	20	ND	20	03/27/08	03/27/08	
Surrogate: Dibromofluoromethane (80-120%)					*100 %*				
Surrogate: Toluene-d8 (80-120%)					*98 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)					*94 %*				

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17461 Derian Avenue. Suite 100, Irvine, CA 92614 (949) 261-1022 Fax:(949) 260-3297

Avocet Environmental Inc.
16 Technology Drive, Suite 154
Irvine, CA 92618
Attention: Michael Rendina

Project ID: Boeing C-6 Torrance (02/26/08)
1155.006
Report Number: IRC1931

Sampled: 03/25/08
Received: 03/25/08

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRC1931-04 (AW0075UB_WG20080325_01 - Water)									
Reporting Units: ug/l									
2-Butanone (MEK)	EPA 8260B	8C27012	1200	1200	**34000**	250	03/27/08	03/27/08	
Surrogate: Dibromofluoromethane (80-120%)					*102 %*				
Surrogate: Toluene-d8 (80-120%)					*97 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)					*99 %*				
Sample ID: IRC1931-04RE1 (AW0075UB_WG20080325_01 - Water)									
Reporting Units: ug/l									
Acetone	EPA 8260B	8C27012	220	500	**5600**	50	03/27/08	03/27/08	
tert-Amyl Methyl Ether (TAME)	EPA 8260B	8C27012	16	100	ND	50	03/27/08	03/27/08	
Benzene	EPA 8260B	8C27012	14	25	**64**	50	03/27/08	03/27/08	
Bromobenzene	EPA 8260B	8C27012	14	50	ND	50	03/27/08	03/27/08	
Bromochloromethane	EPA 8260B	8C27012	20	50	ND	50	03/27/08	03/27/08	
Bromodichloromethane	EPA 8260B	8C27012	15	50	ND	50	03/27/08	03/27/08	
Bromoform	EPA 8260B	8C27012	20	50	ND	50	03/27/08	03/27/08	
Bromomethane	EPA 8260B	8C27012	21	50	ND	50	03/27/08	03/27/08	
tert-Butanol (TBA)	EPA 8260B	8C27012	320	1200	ND	50	03/27/08	03/27/08	
tert-Butylbenzene	EPA 8260B	8C27012	11	50	ND	50	03/27/08	03/27/08	
n-Butylbenzene	EPA 8260B	8C27012	18	50	ND	50	03/27/08	03/27/08	
sec-Butylbenzene	EPA 8260B	8C27012	12	50	ND	50	03/27/08	03/27/08	
Carbon Disulfide	EPA 8260B	8C27012	24	50	ND	50	03/27/08	03/27/08	
Carbon tetrachloride	EPA 8260B	8C27012	14	25	ND	50	03/27/08	03/27/08	
Chlorobenzene	EPA 8260B	8C27012	18	50	ND	50	03/27/08	03/27/08	
Chloroethane	EPA 8260B	8C27012	20	100	ND	50	03/27/08	03/27/08	
Chloroform	EPA 8260B	8C27012	16	50	**28**	50	03/27/08	03/27/08	Jb
Chloromethane	EPA 8260B	8C27012	20	100	ND	50	03/27/08	03/27/08	
2-Chlorotoluene	EPA 8260B	8C27012	14	50	ND	50	03/27/08	03/27/08	
4-Chlorotoluene	EPA 8260B	8C27012	14	50	ND	50	03/27/08	03/27/08	
1,2-Dibromo-3-chloropropane	EPA 8260B	8C27012	48	100	ND	50	03/27/08	03/27/08	
Dibromochloromethane	EPA 8260B	8C27012	20	50	ND	50	03/27/08	03/27/08	
1,2-Dibromoethane (EDB)	EPA 8260B	8C27012	20	50	ND	50	03/27/08	03/27/08	
1,3-Dichlorobenzene	EPA 8260B	8C27012	18	50	ND	50	03/27/08	03/27/08	
1,4-Dichlorobenzene	EPA 8260B	8C27012	18	50	ND	50	03/27/08	03/27/08	
1,2-Dichlorobenzene	EPA 8260B	8C27012	16	50	ND	50	03/27/08	03/27/08	
Dichlorodifluoromethane	EPA 8260B	8C27012	13	50	ND	50	03/27/08	03/27/08	
1,1-Dichloroethane	EPA 8260B	8C27012	20	50	**490**	50	03/27/08	03/27/08	
1,2-Dichloroethane	EPA 8260B	8C27012	14	25	**140**	50	03/27/08	03/27/08	
cis-1,2-Dichloroethene	EPA 8260B	8C27012	16	50	**4300**	50	03/27/08	03/27/08	
1,1-Dichloroethene	EPA 8260B	8C27012	21	50	**4200**	50	03/27/08	03/27/08	
trans-1,2-Dichloroethene	EPA 8260B	8C27012	15	50	**310**	50	03/27/08	03/27/08	
2,2-Dichloropropane	EPA 8260B	8C27012	17	50	ND	50	03/27/08	03/27/08	
1,2-Dichloropropane	EPA 8260B	8C27012	18	50	ND	50	03/27/08	03/27/08	

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BOE-C6-0188380

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Avocet Environmental Inc.
16 Technology Drive, Suite 154
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Attention: Michael Rendina

Project ID: Boeing C-6 Torrance (02/26/08)
1155.006
Report Number: IRC1931

Sampled: 03/25/08
Received: 03/25/08

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRC1931-04RE1 (AW0075UB_WG20080325_01 - Water) - cont.									
Reporting Units: ug/l									
cis-1,3-Dichloropropene	EPA 8260B	8C27012	11	25	ND	50	03/27/08	03/27/08	
1,1-Dichloropropene	EPA 8260B	8C27012	14	50	ND	50	03/27/08	03/27/08	
trans-1,3-Dichloropropene	EPA 8260B	8C27012	16	25	ND	50	03/27/08	03/27/08	
Di-isopropyl Ether (DIPE)	EPA 8260B	8C27012	12	100	ND	50	03/27/08	03/27/08	
Ethylbenzene	EPA 8260B	8C27012	12	50	ND	50	03/27/08	03/27/08	
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	8C27012	14	100	ND	50	03/27/08	03/27/08	
Hexachlorobutadiene	EPA 8260B	8C27012	19	50	ND	50	03/27/08	03/27/08	
2-Hexanone	EPA 8260B	8C27012	130	300	ND	50	03/27/08	03/27/08	
Iodomethane	EPA 8260B	8C27012	50	100	ND	50	03/27/08	03/27/08	
Isopropylbenzene	EPA 8260B	8C27012	12	50	ND	50	03/27/08	03/27/08	
p-Isopropyltoluene	EPA 8260B	8C27012	14	50	ND	50	03/27/08	03/27/08	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	8C27012	16	50	ND	50	03/27/08	03/27/08	
Methylene chloride	EPA 8260B	8C27012	48	50	ND	50	03/27/08	03/27/08	
4-Methyl-2-pentanone (MIBK)	EPA 8260B	8C27012	180	250	**15000**	50	03/27/08	03/27/08	
n-Propylbenzene	EPA 8260B	8C27012	14	50	ND	50	03/27/08	03/27/08	
Styrene	EPA 8260B	8C27012	10	50	ND	50	03/27/08	03/27/08	
1,1,1,2-Tetrachloroethane	EPA 8260B	8C27012	14	50	ND	50	03/27/08	03/27/08	
1,1,2,2-Tetrachloroethane	EPA 8260B	8C27012	15	50	ND	50	03/27/08	03/27/08	
Tetrachloroethene	EPA 8260B	8C27012	16	50	ND	50	03/27/08	03/27/08	
Tetrahydrofuran (THF)	EPA 8260B	8C27012	180	500	ND	50	03/27/08	03/27/08	
Toluene	EPA 8260B	8C27012	18	50	**6900**	50	03/27/08	03/27/08	
1,2,3-Trichlorobenzene	EPA 8260B	8C27012	15	50	ND	50	03/27/08	03/27/08	
1,2,4-Trichlorobenzene	EPA 8260B	8C27012	24	50	ND	50	03/27/08	03/27/08	
1,1,1-Trichloroethane	EPA 8260B	8C27012	15	50	**230**	50	03/27/08	03/27/08	
1,1,2-Trichloroethane	EPA 8260B	8C27012	15	50	**76**	50	03/27/08	03/27/08	
Trichloroethene	EPA 8260B	8C27012	13	50	**370**	50	03/27/08	03/27/08	
Trichlorofluoromethane	EPA 8260B	8C27012	17	100	ND	50	03/27/08	03/27/08	
1,2,3-Trichloropropane	EPA 8260B	8C27012	20	50	ND	50	03/27/08	03/27/08	
1,3,5-Trimethylbenzene	EPA 8260B	8C27012	13	50	ND	50	03/27/08	03/27/08	
1,2,4-Trimethylbenzene	EPA 8260B	8C27012	12	50	ND	50	03/27/08	03/27/08	
Vinyl acetate	EPA 8260B	8C27012	50	300	ND	50	03/27/08	03/27/08	
Vinyl chloride	EPA 8260B	8C27012	20	25	**3300**	50	03/27/08	03/27/08	
o-Xylene	EPA 8260B	8C27012	15	25	**24**	50	03/27/08	03/27/08	Jb
Xylenes, Total	EPA 8260B	8C27012	45	50	**84**	50	03/27/08	03/27/08	
m,p-Xylenes	EPA 8260B	8C27012	30	50	**60**	50	03/27/08	03/27/08	
Surrogate: Dibromofluoromethane (80-120%)					*102 %*				
Surrogate: Toluene-d8 (80-120%)					*100 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)					*95 %*				

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Project Manager

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Avocet Environmental Inc.
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Irvine, CA 92618
Attention: Michael Rendina

Project ID: Boeing C-6 Torrance (02/26/08)
1155.006
Report Number: IRC1931

Sampled: 03/25/08
Received: 03/25/08

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRC1931-05 (TMW_07_WG20080325_01 - Water)									
Reporting Units: ug/l									
Trichloroethene	EPA 8260B	8C27012	6.5	25	**1300**	25	03/27/08	03/27/08	
Surrogate: Dibromofluoromethane (80-120%)					*103 %*				
Surrogate: Toluene-d8 (80-120%)					*99 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)					*93 %*				
Sample ID: IRC1931-05RE1 (TMW_07_WG20080325_01 - Water)									
Reporting Units: ug/l									
Acetone	EPA 8260B	8C27012	22	50	ND	5	03/27/08	03/27/08	
tert-Amyl Methyl Ether (TAME)	EPA 8260B	8C27012	1.6	10	ND	5	03/27/08	03/27/08	
Benzene	EPA 8260B	8C27012	1.4	2.5	ND	5	03/27/08	03/27/08	
Bromobenzene	EPA 8260B	8C27012	1.4	5.0	ND	5	03/27/08	03/27/08	
Bromochloromethane	EPA 8260B	8C27012	2.0	5.0	ND	5	03/27/08	03/27/08	
Bromodichloromethane	EPA 8260B	8C27012	1.5	5.0	ND	5	03/27/08	03/27/08	
Bromoform	EPA 8260B	8C27012	2.0	5.0	ND	5	03/27/08	03/27/08	
Bromomethane	EPA 8260B	8C27012	2.1	5.0	ND	5	03/27/08	03/27/08	
tert-Butanol (TBA)	EPA 8260B	8C27012	32	120	ND	5	03/27/08	03/27/08	
2-Butanone (MEK)	EPA 8260B	8C27012	24	25	ND	5	03/27/08	03/27/08	
tert-Butylbenzene	EPA 8260B	8C27012	1.1	5.0	ND	5	03/27/08	03/27/08	
n-Butylbenzene	EPA 8260B	8C27012	1.8	5.0	ND	5	03/27/08	03/27/08	
sec-Butylbenzene	EPA 8260B	8C27012	1.2	5.0	ND	5	03/27/08	03/27/08	
Carbon Disulfide	EPA 8260B	8C27012	2.4	5.0	ND	5	03/27/08	03/27/08	
Carbon tetrachloride	EPA 8260B	8C27012	1.4	2.5	ND	5	03/27/08	03/27/08	
Chlorobenzene	EPA 8260B	8C27012	1.8	5.0	ND	5	03/27/08	03/27/08	
Chloroethane	EPA 8260B	8C27012	2.0	10	ND	5	03/27/08	03/27/08	
Chloroform	EPA 8260B	8C27012	1.6	5.0	**4.4**	5	03/27/08	03/27/08	Jb
Chloromethane	EPA 8260B	8C27012	2.0	10	ND	5	03/27/08	03/27/08	
2-Chlorotoluene	EPA 8260B	8C27012	1.4	5.0	ND	5	03/27/08	03/27/08	
4-Chlorotoluene	EPA 8260B	8C27012	1.4	5.0	ND	5	03/27/08	03/27/08	
1,2-Dibromo-3-chloropropane	EPA 8260B	8C27012	4.8	10	ND	5	03/27/08	03/27/08	
Dibromochloromethane	EPA 8260B	8C27012	2.0	5.0	ND	5	03/27/08	03/27/08	
1,2-Dibromoethane (EDB)	EPA 8260B	8C27012	2.0	5.0	ND	5	03/27/08	03/27/08	
1,3-Dichlorobenzene	EPA 8260B	8C27012	1.8	5.0	ND	5	03/27/08	03/27/08	
1,4-Dichlorobenzene	EPA 8260B	8C27012	1.8	5.0	ND	5	03/27/08	03/27/08	
1,2-Dichlorobenzene	EPA 8260B	8C27012	1.6	5.0	ND	5	03/27/08	03/27/08	
Dichlorodifluoromethane	EPA 8260B	8C27012	1.3	5.0	ND	5	03/27/08	03/27/08	
1,1-Dichloroethane	EPA 8260B	8C27012	2.0	5.0	ND	5	03/27/08	03/27/08	
1,2-Dichloroethane	EPA 8260B	8C27012	1.4	2.5	ND	5	03/27/08	03/27/08	
cis-1,2-Dichloroethene	EPA 8260B	8C27012	1.6	5.0	**1.6**	5	03/27/08	03/27/08	Jb
1,1-Dichloroethene	EPA 8260B	8C27012	2.1	5.0	**12**	5	03/27/08	03/27/08	
trans-1,2-Dichloroethene	EPA 8260B	8C27012	1.5	5.0	ND	5	03/27/08	03/27/08	
2,2-Dichloropropane	EPA 8260B	8C27012	1.7	5.0	ND	5	03/27/08	03/27/08	

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BOE-C6-0188381

Avocet Environmental Inc.
16 Technology Drive, Suite 154
Irvine, CA 92618
Attention: Michael Rendina

Project ID: Boeing C-6 Torrance (02/26/08)
1155.006
Report Number: IRC1931

Sampled: 03/25/08
Received: 03/25/08

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRC1931-05RE1 (TMW_07_WG20080325_01 - Water) - cont.									
Reporting Units: ug/l									
1,2-Dichloropropane	EPA 8260B	8C27012	1.8	5.0	ND	5	03/27/08	03/27/08	
cis-1,3-Dichloropropene	EPA 8260B	8C27012	1.1	2.5	ND	5	03/27/08	03/27/08	
1,1-Dichloropropene	EPA 8260B	8C27012	1.4	5.0	ND	5	03/27/08	03/27/08	
trans-1,3-Dichloropropene	EPA 8260B	8C27012	1.6	2.5	ND	5	03/27/08	03/27/08	
Di-isopropyl Ether (DIPE)	EPA 8260B	8C27012	1.2	10	ND	5	03/27/08	03/27/08	
Ethylbenzene	EPA 8260B	8C27012	1.2	5.0	ND	5	03/27/08	03/27/08	
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	8C27012	1.4	10	ND	5	03/27/08	03/27/08	
Hexachlorobutadiene	EPA 8260B	8C27012	1.9	5.0	ND	5	03/27/08	03/27/08	
2-Hexanone	EPA 8260B	8C27012	13	30	ND	5	03/27/08	03/27/08	
Iodomethane	EPA 8260B	8C27012	5.0	10	ND	5	03/27/08	03/27/08	
Isopropylbenzene	EPA 8260B	8C27012	1.2	5.0	ND	5	03/27/08	03/27/08	
p-Isopropyltoluene	EPA 8260B	8C27012	1.4	5.0	ND	5	03/27/08	03/27/08	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	8C27012	1.6	5.0	ND	5	03/27/08	03/27/08	
Methylene chloride	EPA 8260B	8C27012	4.8	5.0	ND	5	03/27/08	03/27/08	
4-Methyl-2-pentanone (MIBK)	EPA 8260B	8C27012	18	25	ND	5	03/27/08	03/27/08	
n-Propylbenzene	EPA 8260B	8C27012	1.4	5.0	ND	5	03/27/08	03/27/08	
Styrene	EPA 8260B	8C27012	1.0	5.0	ND	5	03/27/08	03/27/08	
1,1,1,2-Tetrachloroethane	EPA 8260B	8C27012	1.4	5.0	ND	5	03/27/08	03/27/08	
1,1,2,2-Tetrachloroethane	EPA 8260B	8C27012	1.5	5.0	ND	5	03/27/08	03/27/08	
Tetrachloroethene	EPA 8260B	8C27012	1.6	5.0	ND	5	03/27/08	03/27/08	
Tetrahydrofuran (THF)	EPA 8260B	8C27012	18	50	ND	5	03/27/08	03/27/08	
Toluene	EPA 8260B	8C27012	1.8	5.0	ND	5	03/27/08	03/27/08	
1,2,3-Trichlorobenzene	EPA 8260B	8C27012	1.5	5.0	ND	5	03/27/08	03/27/08	
1,2,4-Trichlorobenzene	EPA 8260B	8C27012	2.4	5.0	ND	5	03/27/08	03/27/08	
1,1,1-Trichloroethane	EPA 8260B	8C27012	1.5	5.0	ND	5	03/27/08	03/27/08	
1,1,2-Trichloroethane	EPA 8260B	8C27012	1.5	5.0	**7.2**	5	03/27/08	03/27/08	
Trichlorofluoromethane	EPA 8260B	8C27012	1.7	10	ND	5	03/27/08	03/27/08	
1,2,3-Trichloropropane	EPA 8260B	8C27012	2.0	5.0	ND	5	03/27/08	03/27/08	
1,3,5-Trimethylbenzene	EPA 8260B	8C27012	1.3	5.0	ND	5	03/27/08	03/27/08	
1,2,4-Trimethylbenzene	EPA 8260B	8C27012	1.2	5.0	ND	5	03/27/08	03/27/08	
Vinyl acetate	EPA 8260B	8C27012	5.0	30	ND	5	03/27/08	03/27/08	
Vinyl chloride	EPA 8260B	8C27012	2.0	2.5	ND	5	03/27/08	03/27/08	
o-Xylene	EPA 8260B	8C27012	1.5	2.5	ND	5	03/27/08	03/27/08	
Xylenes, Total	EPA 8260B	8C27012	4.5	5.0	ND	5	03/27/08	03/27/08	
m,p-Xylenes	EPA 8260B	8C27012	3.0	5.0	ND	5	03/27/08	03/27/08	
Surrogate: Dibromofluoromethane (80-120%)					*100 %*				
Surrogate: Toluene-d8 (80-120%)					*100 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)					*90 %*				

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Trupti Mistry
Project Manager

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Avocet Environmental Inc.
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Attention: Michael Rendina

Project ID: Boeing C-6 Torrance (02/26/08)
1155.006
Report Number: IRC1931

Sampled: 03/25/08
Received: 03/25/08

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRC1931-06 (AW0067UB_WG20080325_01 - Water)									
Reporting Units: ug/l									
cis-1,2-Dichloroethene	EPA 8260B	8C27012	6.4	20	**500**	20	03/27/08	03/27/08	
1,1-Dichloroethene	EPA 8260B	8C27012	8.4	20	**440**	20	03/27/08	03/27/08	
Surrogate: Dibromofluoromethane (80-120%)					*104 %*				
Surrogate: Toluene-d8 (80-120%)					*101 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)					*93 %*				
Sample ID: IRC1931-06RE1 (AW0067UB_WG20080325_01 - Water)									
Reporting Units: ug/l									
Acetone	EPA 8260B	8C27012	18	40	**110**	4	03/27/08	03/27/08	
tert-Amyl Methyl Ether (TAME)	EPA 8260B	8C27012	1.3	8.0	ND	4	03/27/08	03/27/08	
Benzene	EPA 8260B	8C27012	1.1	2.0	**1.6**	4	03/27/08	03/27/08	Jb
Bromobenzene	EPA 8260B	8C27012	1.1	4.0	ND	4	03/27/08	03/27/08	
Bromochloromethane	EPA 8260B	8C27012	1.6	4.0	ND	4	03/27/08	03/27/08	
Bromodichloromethane	EPA 8260B	8C27012	1.2	4.0	ND	4	03/27/08	03/27/08	
Bromoform	EPA 8260B	8C27012	1.6	4.0	ND	4	03/27/08	03/27/08	
Bromomethane	EPA 8260B	8C27012	1.7	4.0	ND	4	03/27/08	03/27/08	
tert-Butanol (TBA)	EPA 8260B	8C27012	26	100	ND	4	03/27/08	03/27/08	
2-Butanone (MEK)	EPA 8260B	8C27012	19	20	**270**	4	03/27/08	03/27/08	
tert-Butylbenzene	EPA 8260B	8C27012	0.88	4.0	ND	4	03/27/08	03/27/08	
n-Butylbenzene	EPA 8260B	8C27012	1.5	4.0	ND	4	03/27/08	03/27/08	
sec-Butylbenzene	EPA 8260B	8C27012	1.0	4.0	ND	4	03/27/08	03/27/08	
Carbon Disulfide	EPA 8260B	8C27012	1.9	4.0	**4.2**	4	03/27/08	03/27/08	
Carbon tetrachloride	EPA 8260B	8C27012	1.1	2.0	ND	4	03/27/08	03/27/08	
Chlorobenzene	EPA 8260B	8C27012	1.4	4.0	ND	4	03/27/08	03/27/08	
Chloroethane	EPA 8260B	8C27012	1.6	8.0	**4.9**	4	03/27/08	03/27/08	Jb
Chloroform	EPA 8260B	8C27012	1.3	4.0	**17**	4	03/27/08	03/27/08	
Chloromethane	EPA 8260B	8C27012	1.6	8.0	**14**	4	03/27/08	03/27/08	
2-Chlorotoluene	EPA 8260B	8C27012	1.1	4.0	ND	4	03/27/08	03/27/08	
4-Chlorotoluene	EPA 8260B	8C27012	1.2	4.0	ND	4	03/27/08	03/27/08	
1,2-Dibromo-3-chloropropane	EPA 8260B	8C27012	3.9	8.0	ND	4	03/27/08	03/27/08	
Dibromochloromethane	EPA 8260B	8C27012	1.6	4.0	ND	4	03/27/08	03/27/08	
1,2-Dibromoethane (EDB)	EPA 8260B	8C27012	1.6	4.0	ND	4	03/27/08	03/27/08	
1,3-Dichlorobenzene	EPA 8260B	8C27012	1.4	4.0	ND	4	03/27/08	03/27/08	
1,4-Dichlorobenzene	EPA 8260B	8C27012	1.5	4.0	ND	4	03/27/08	03/27/08	
1,2-Dichlorobenzene	EPA 8260B	8C27012	1.3	4.0	ND	4	03/27/08	03/27/08	
Dichlorodifluoromethane	EPA 8260B	8C27012	1.0	4.0	ND	4	03/27/08	03/27/08	
1,1-Dichloroethane	EPA 8260B	8C27012	1.6	4.0	**9.3**	4	03/27/08	03/27/08	
1,2-Dichloroethane	EPA 8260B	8C27012	1.1	2.0	ND	4	03/27/08	03/27/08	
trans-1,2-Dichloroethene	EPA 8260B	8C27012	1.2	4.0	**13**	4	03/27/08	03/27/08	
2,2-Dichloropropane	EPA 8260B	8C27012	1.4	4.0	ND	4	03/27/08	03/27/08	
1,2-Dichloropropane	EPA 8260B	8C27012	1.4	4.0	ND	4	03/27/08	03/27/08	

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BOE-C6-0188382

Avocet Environmental Inc.
16 Technology Drive, Suite 154
Irvine, CA 92618
Attention: Michael Rendina

Project ID: Boeing C-6 Torrance (02/26/08)
1155.006
Report Number: IRC1931

Sampled: 03/25/08
Received: 03/25/08

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Sample ID: IRC1931-06RE1 (AW0067UB_WG20080325_01 - Water) - cont.
Reporting Units: ug/l

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
cis-1,3-Dichloropropene	EPA 8260B	8C27012	0.88	2.0	ND	4	03/27/08	03/27/08	
1,1-Dichloropropene	EPA 8260B	8C27012	1.1	4.0	ND	4	03/27/08	03/27/08	
trans-1,3-Dichloropropene	EPA 8260B	8C27012	1.3	2.0	ND	4	03/27/08	03/27/08	
Di-isopropyl Ether (DIPE)	EPA 8260B	8C27012	1.0	8.0	ND	4	03/27/08	03/27/08	
Ethylbenzene	EPA 8260B	8C27012	1.0	4.0	ND	4	03/27/08	03/27/08	
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	8C27012	1.1	8.0	ND	4	03/27/08	03/27/08	
Hexachlorobutadiene	EPA 8260B	8C27012	1.5	4.0	ND	4	03/27/08	03/27/08	
2-Hexanone	EPA 8260B	8C27012	10	24	ND	4	03/27/08	03/27/08	
Iodomethane	EPA 8260B	8C27012	4.0	8.0	ND	4	03/27/08	03/27/08	
Isopropylbenzene	EPA 8260B	8C27012	1.0	4.0	ND	4	03/27/08	03/27/08	
p-Isopropyltoluene	EPA 8260B	8C27012	1.1	4.0	ND	4	03/27/08	03/27/08	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	8C27012	1.3	4.0	ND	4	03/27/08	03/27/08	
Methylene chloride	EPA 8260B	8C27012	3.8	4.0	ND	4	03/27/08	03/27/08	
4-Methyl-2-pentanone (MIBK)	EPA 8260B	8C27012	14	20	ND	4	03/27/08	03/27/08	
n-Propylbenzene	EPA 8260B	8C27012	1.1	4.0	ND	4	03/27/08	03/27/08	
Styrene	EPA 8260B	8C27012	0.80	4.0	ND	4	03/27/08	03/27/08	
1,1,1,2-Tetrachloroethane	EPA 8260B	8C27012	1.1	4.0	ND	4	03/27/08	03/27/08	
1,1,2,2-Tetrachloroethane	EPA 8260B	8C27012	1.2	4.0	ND	4	03/27/08	03/27/08	
Tetrachloroethene	EPA 8260B	8C27012	1.3	4.0	ND	4	03/27/08	03/27/08	
Tetrahydrofuran (THF)	EPA 8260B	8C27012	14	40	**240**	4	03/27/08	03/27/08	
Toluene	EPA 8260B	8C27012	1.4	4.0	**5.5**	4	03/27/08	03/27/08	
1,2,3-Trichlorobenzene	EPA 8260B	8C27012	1.2	4.0	ND	4	03/27/08	03/27/08	
1,2,4-Trichlorobenzene	EPA 8260B	8C27012	1.9	4.0	ND	4	03/27/08	03/27/08	
1,1,1-Trichloroethane	EPA 8260B	8C27012	1.2	4.0	ND	4	03/27/08	03/27/08	
1,1,2-Trichloroethane	EPA 8260B	8C27012	1.2	4.0	ND	4	03/27/08	03/27/08	
Trichloroethene	EPA 8260B	8C27012	1.0	4.0	**160**	4	03/27/08	03/27/08	
Trichlorofluoromethane	EPA 8260B	8C27012	1.4	8.0	ND	4	03/27/08	03/27/08	
1,2,3-Trichloropropane	EPA 8260B	8C27012	1.6	4.0	ND	4	03/27/08	03/27/08	
1,3,5-Trimethylbenzene	EPA 8260B	8C27012	1.0	4.0	ND	4	03/27/08	03/27/08	
1,2,4-Trimethylbenzene	EPA 8260B	8C27012	0.92	4.0	ND	4	03/27/08	03/27/08	
Vinyl acetate	EPA 8260B	8C27012	4.0	24	ND	4	03/27/08	03/27/08	
Vinyl chloride	EPA 8260B	8C27012	1.6	2.0	**6.4**	4	03/27/08	03/27/08	
o-Xylene	EPA 8260B	8C27012	1.2	2.0	ND	4	03/27/08	03/27/08	
Xylenes, Total	EPA 8260B	8C27012	3.6	4.0	ND	4	03/27/08	03/27/08	
m,p-Xylenes	EPA 8260B	8C27012	2.4	4.0	ND	4	03/27/08	03/27/08	
Surrogate: Dibromofluoromethane (80-120%)					*102 %*				
Surrogate: Toluene-d8 (80-120%)					*103 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)					*91 %*				

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Avocet Environmental Inc.
16 Technology Drive, Suite 154
Irvine, CA 92618
Attention: Michael Rendina

Project ID: Boeing C-6 Torrance (02/26/08)
1155.006
Report Number: IRC1931

Sampled: 03/25/08
Received: 03/25/08

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Sample ID: IRC1931-07 (AW0066UB_WG20080325_01 - Water)
Reporting Units: ug/l

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Acetone	EPA 8260B	8C31024	4.5	10	**210**	1	03/31/08	03/31/08	
tert-Amyl Methyl Ether (TAME)	EPA 8260B	8C31024	0.33	2.0	ND	1	03/31/08	03/31/08	
Benzene	EPA 8260B	8C31024	0.28	0.50	**1.3**	1	03/31/08	03/31/08	
Bromobenzene	EPA 8260B	8C31024	0.27	1.0	ND	1	03/31/08	03/31/08	
Bromochloromethane	EPA 8260B	8C31024	0.40	1.0	ND	1	03/31/08	03/31/08	
Bromodichloromethane	EPA 8260B	8C31024	0.30	1.0	ND	1	03/31/08	03/31/08	
Bromoform	EPA 8260B	8C31024	0.40	1.0	ND	1	03/31/08	03/31/08	
Bromomethane	EPA 8260B	8C31024	0.42	1.0	ND	1	03/31/08	03/31/08	
tert-Butanol (TBA)	EPA 8260B	8C31024	6.5	25	ND	1	03/31/08	03/31/08	
2-Butanone (MEK)	EPA 8260B	8C31024	4.7	5.0	**140**	1	03/31/08	03/31/08	
tert-Butylbenzene	EPA 8260B	8C31024	0.22	1.0	ND	1	03/31/08	03/31/08	
n-Butylbenzene	EPA 8260B	8C31024	0.37	1.0	ND	1	03/31/08	03/31/08	
sec-Butylbenzene	EPA 8260B	8C31024	0.25	1.0	ND	1	03/31/08	03/31/08	
Carbon Disulfide	EPA 8260B	8C31024	0.48	1.0	**3.8**	1	03/31/08	03/31/08	
Carbon tetrachloride	EPA 8260B	8C31024	0.28	0.50	ND	1	03/31/08	03/31/08	
Chlorobenzene	EPA 8260B	8C31024	0.36	1.0	ND	1	03/31/08	03/31/08	
Chloroethane	EPA 8260B	8C31024	0.40	2.0	ND	1	03/31/08	03/31/08	
Chloroform	EPA 8260B	8C31024	0.33	1.0	**36**	1	03/31/08	03/31/08	
Chloromethane	EPA 8260B	8C31024	0.40	2.0	**6.3**	1	03/31/08	03/31/08	
2-Chlorotoluene	EPA 8260B	8C31024	0.28	1.0	ND	1	03/31/08	03/31/08	
4-Chlorotoluene	EPA 8260B	8C31024	0.29	1.0	ND	1	03/31/08	03/31/08	
1,2-Dibromo-3-chloropropane	EPA 8260B	8C31024	0.97	2.0	ND	1	03/31/08	03/31/08	
Dibromochloromethane	EPA 8260B	8C31024	0.40	1.0	ND	1	03/31/08	03/31/08	
1,2-Dibromoethane (EDB)	EPA 8260B	8C31024	0.40	1.0	ND	1	03/31/08	03/31/08	
1,3-Dichlorobenzene	EPA 8260B	8C31024	0.35	1.0	ND	1	03/31/08	03/31/08	
1,4-Dichlorobenzene	EPA 8260B	8C31024	0.37	1.0	ND	1	03/31/08	03/31/08	
1,2-Dichlorobenzene	EPA 8260B	8C31024	0.32	1.0	ND	1	03/31/08	03/31/08	
Dichlorodifluoromethane	EPA 8260B	8C31024	0.26	1.0	ND	1	03/31/08	03/31/08	
1,1-Dichloroethane	EPA 8260B	8C31024	0.40	1.0	**6.9**	1	03/31/08	03/31/08	
1,2-Dichloroethane	EPA 8260B	8C31024	0.28	0.50	**1.1**	1	03/31/08	03/31/08	
cis-1,2-Dichloroethene	EPA 8260B	8C31024	0.32	1.0	**180**	1	03/31/08	03/31/08	
trans-1,2-Dichloroethene	EPA 8260B	8C31024	0.30	1.0	**8.1**	1	03/31/08	03/31/08	
2,2-Dichloropropane	EPA 8260B	8C31024	0.34	1.0	ND	1	03/31/08	03/31/08	
1,2-Dichloropropane	EPA 8260B	8C31024	0.35	1.0	ND	1	03/31/08	03/31/08	
cis-1,3-Dichloropropene	EPA 8260B	8C31024	0.22	0.50	ND	1	03/31/08	03/31/08	
1,1-Dichloropropene	EPA 8260B	8C31024	0.28	1.0	ND	1	03/31/08	03/31/08	
trans-1,3-Dichloropropene	EPA 8260B	8C31024	0.32	0.50	ND	1	03/31/08	03/31/08	
Di-isopropyl Ether (DIPE)	EPA 8260B	8C31024	0.25	2.0	ND	1	03/31/08	03/31/08	
Ethylbenzene	EPA 8260B	8C31024	0.25	1.0	**0.32**	1	03/31/08	03/31/08	Jb
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	8C31024	0.28	2.0	ND	1	03/31/08	03/31/08	
Hexachlorobutadiene	EPA 8260B	8C31024	0.38	1.0	ND	1	03/31/08	03/31/08	

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BOE-C6-0188383

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Avocet Environmental Inc.
16 Technology Drive, Suite 154
Irvine, CA 92618
Attention: Michael Rendina

Project ID: Boeing C-6 Torrance (02/26/08)
1155.006
Report Number: IRC1931

Sampled: 03/25/08
Received: 03/25/08

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRC1931-07 (AW0066UB_WG20080325_01 - Water) - cont.									
Reporting Units: ug/l									
2-Hexanone	EPA 8260B	8C31024	2.6	6.0	ND	1	03/31/08	03/31/08	
Iodomethane	EPA 8260B	8C31024	1.0	2.0	ND	1	03/31/08	03/31/08	
Isopropylbenzene	EPA 8260B	8C31024	0.25	1.0	ND	1	03/31/08	03/31/08	
p-Isopropyltoluene	EPA 8260B	8C31024	0.28	1.0	ND	1	03/31/08	03/31/08	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	8C31024	0.32	1.0	ND	1	03/31/08	03/31/08	
Methylene chloride	EPA 8260B	8C31024	0.95	1.0	**1.2**	1	03/31/08	03/31/08	
4-Methyl-2-pentanone (MIBK)	EPA 8260B	8C31024	3.5	5.0	**12**	1	03/31/08	03/31/08	
n-Propylbenzene	EPA 8260B	8C31024	0.27	1.0	ND	1	03/31/08	03/31/08	
Styrene	EPA 8260B	8C31024	0.20	1.0	ND	1	03/31/08	03/31/08	
1,1,1,2-Tetrachloroethane	EPA 8260B	8C31024	0.27	1.0	ND	1	03/31/08	03/31/08	
1,1,2,2-Tetrachloroethane	EPA 8260B	8C31024	0.30	1.0	ND	1	03/31/08	03/31/08	
Tetrachloroethene	EPA 8260B	8C31024	0.32	1.0	ND	1	03/31/08	03/31/08	
Tetrahydrofuran (THF)	EPA 8260B	8C31024	3.5	10	**82**	1	03/31/08	03/31/08	
Toluene	EPA 8260B	8C31024	0.36	1.0	**5.7**	1	03/31/08	03/31/08	
1,2,3-Trichlorobenzene	EPA 8260B	8C31024	0.30	1.0	ND	1	03/31/08	03/31/08	
1,2,4-Trichlorobenzene	EPA 8260B	8C31024	0.48	1.0	ND	1	03/31/08	03/31/08	
1,1,1-Trichloroethane	EPA 8260B	8C31024	0.30	1.0	ND	1	03/31/08	03/31/08	
1,1,2-Trichloroethane	EPA 8260B	8C31024	0.30	1.0	ND	1	03/31/08	03/31/08	
Trichloroethene	EPA 8260B	8C31024	0.26	1.0	**72**	1	03/31/08	03/31/08	
Trichlorofluoromethane	EPA 8260B	8C31024	0.34	2.0	ND	1	03/31/08	03/31/08	
1,2,3-Trichloropropane	EPA 8260B	8C31024	0.40	1.0	ND	1	03/31/08	03/31/08	
1,3,5-Trimethylbenzene	EPA 8260B	8C31024	0.26	1.0	ND	1	03/31/08	03/31/08	
1,2,4-Trimethylbenzene	EPA 8260B	8C31024	0.23	1.0	ND	1	03/31/08	03/31/08	
Vinyl acetate	EPA 8260B	8C31024	1.0	6.0	ND	1	03/31/08	03/31/08	
Vinyl chloride	EPA 8260B	8C31024	0.40	0.50	**100**	1	03/31/08	03/31/08	
o-Xylene	EPA 8260B	8C31024	0.30	0.50	ND	1	03/31/08	03/31/08	
Xylenes, Total	EPA 8260B	8C31024	0.90	1.0	ND	1	03/31/08	03/31/08	
m,p-Xylenes	EPA 8260B	8C31024	0.60	1.0	ND	1	03/31/08	03/31/08	
Surrogate: Dibromofluoromethane (80-120%)					*102 %*				
Surrogate: Toluene-d8 (80-120%)					*99 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)					*101 %*				

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Project Manager

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Avocet Environmental Inc.
16 Technology Drive, Suite 154
Irvine, CA 92618
Attention: Michael Rendina

Project ID: Boeing C-6 Torrance (02/26/08)
1155.006
Report Number: IRC1931

Sampled: 03/25/08
Received: 03/25/08

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRC1931-07RE1 (AW0066UB_WG20080325_01 - Water) - cont.									**A-01, P6**
Reporting Units: ug/l									
1,1-Dichloroethene	EPA 8260B	8D01007	0.84	2.0	**140**	2	04/01/08	04/01/08	
Surrogate: Dibromofluoromethane (80-120%)					*98 %*				
Surrogate: Toluene-d8 (80-120%)					*100 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)					*97 %*				

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BOE-C6-0188384

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Avocet Environmental Inc.
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Irvine, CA 92618
Attention: Michael Rendina

Project ID: Boeing C-6 Torrance (02/26/08)
1155.006
Report Number: IRC1931

Sampled: 03/25/08
Received: 03/25/08

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Sample ID: IRC1931-08 (AW0055UB_WG20080325_01 - Water)
Reporting Units: ug/l

Analyte	Method	Batch	MDL	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Acetone	EPA 8260B	8C31024	180	400	ND	40	03/31/08	04/01/08	
tert-Amyl Methyl Ether (TAME)	EPA 8260B	8C31024	13	80	ND	40	03/31/08	04/01/08	
Benzene	EPA 8260B	8C31024	11	20	**67**	40	03/31/08	04/01/08	
Bromobenzene	EPA 8260B	8C31024	11	40	ND	40	03/31/08	04/01/08	
Bromochloromethane	EPA 8260B	8C31024	16	40	ND	40	03/31/08	04/01/08	
Bromodichloromethane	EPA 8260B	8C31024	12	40	ND	40	03/31/08	04/01/08	
Bromoform	EPA 8260B	8C31024	16	40	ND	40	03/31/08	04/01/08	
Bromomethane	EPA 8260B	8C31024	17	40	ND	40	03/31/08	04/01/08	
tert-Butanol (TBA)	EPA 8260B	8C31024	260	1000	ND	40	03/31/08	04/01/08	
2-Butanone (MEK)	EPA 8260B	8C31024	190	200	ND	40	03/31/08	04/01/08	
tert-Butylbenzene	EPA 8260B	8C31024	8.8	40	ND	40	03/31/08	04/01/08	
n-Butylbenzene	EPA 8260B	8C31024	15	40	ND	40	03/31/08	04/01/08	
sec-Butylbenzene	EPA 8260B	8C31024	10	40	ND	40	03/31/08	04/01/08	
Carbon Disulfide	EPA 8260B	8C31024	19	40	ND	40	03/31/08	04/01/08	
Carbon tetrachloride	EPA 8260B	8C31024	11	20	ND	40	03/31/08	04/01/08	
Chlorobenzene	EPA 8260B	8C31024	14	40	ND	40	03/31/08	04/01/08	
Chloroethane	EPA 8260B	8C31024	16	80	ND	40	03/31/08	04/01/08	
Chloroform	EPA 8260B	8C31024	13	40	**52**	40	03/31/08	04/01/08	
Chloromethane	EPA 8260B	8C31024	16	80	ND	40	03/31/08	04/01/08	
2-Chlorotoluene	EPA 8260B	8C31024	11	40	ND	40	03/31/08	04/01/08	
4-Chlorotoluene	EPA 8260B	8C31024	12	40	ND	40	03/31/08	04/01/08	
1,2-Dibromo-3-chloropropane	EPA 8260B	8C31024	39	80	ND	40	03/31/08	04/01/08	
Dibromochloromethane	EPA 8260B	8C31024	16	40	ND	40	03/31/08	04/01/08	
1,2-Dibromoethane (EDB)	EPA 8260B	8C31024	16	40	ND	40	03/31/08	04/01/08	
1,3-Dichlorobenzene	EPA 8260B	8C31024	14	40	ND	40	03/31/08	04/01/08	
1,4-Dichlorobenzene	EPA 8260B	8C31024	15	40	ND	40	03/31/08	04/01/08	
1,2-Dichlorobenzene	EPA 8260B	8C31024	13	40	ND	40	03/31/08	04/01/08	
Dichlorodifluoromethane	EPA 8260B	8C31024	10	40	ND	40	03/31/08	04/01/08	
1,1-Dichloroethane	EPA 8260B	8C31024	16	40	**550**	40	03/31/08	04/01/08	
1,2-Dichloroethane	EPA 8260B	8C31024	11	20	**99**	40	03/31/08	04/01/08	
trans-1,2-Dichloroethene	EPA 8260B	8C31024	12	40	**480**	40	03/31/08	04/01/08	
2,2-Dichloropropane	EPA 8260B	8C31024	14	40	ND	40	03/31/08	04/01/08	
1,2-Dichloropropane	EPA 8260B	8C31024	14	40	ND	40	03/31/08	04/01/08	
cis-1,3-Dichloropropene	EPA 8260B	8C31024	8.8	20	ND	40	03/31/08	04/01/08	
1,1-Dichloropropene	EPA 8260B	8C31024	11	40	ND	40	03/31/08	04/01/08	
trans-1,3-Dichloropropene	EPA 8260B	8C31024	13	20	ND	40	03/31/08	04/01/08	
Di-isopropyl Ether (DIPE)	EPA 8260B	8C31024	10	80	**14**	40	03/31/08	04/01/08	Jb
Ethylbenzene	EPA 8260B	8C31024	10	40	ND	40	03/31/08	04/01/08	
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	8C31024	11	80	ND	40	03/31/08	04/01/08	
Hexachlorobutadiene	EPA 8260B	8C31024	15	40	ND	40	03/31/08	04/01/08	
2-Hexanone	EPA 8260B	8C31024	100	240	ND	40	03/31/08	04/01/08	

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THE LEADER IN ENVIRONMENTAL TESTING
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Avocet Environmental Inc.
16 Technology Drive, Suite 154
Irvine, CA 92618
Attention: Michael Rendina

Project ID: Boeing C-6 Torrance (02/26/08)
1155.006
Report Number: IRC1931

Sampled: 03/25/08
Received: 03/25/08

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Sample ID: IRC1931-08 (AW0055UB_WG20080325_01 - Water) - cont.
Reporting Units: ug/l

Analyte	Method	Batch	MDL	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Iodomethane	EPA 8260B	8C31024	40	80	ND	40	03/31/08	04/01/08	
Isopropylbenzene	EPA 8260B	8C31024	10	40	ND	40	03/31/08	04/01/08	
p-Isopropyltoluene	EPA 8260B	8C31024	11	40	ND	40	03/31/08	04/01/08	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	8C31024	13	40	ND	40	03/31/08	04/01/08	
Methylene chloride	EPA 8260B	8C31024	38	40	ND	40	03/31/08	04/01/08	
4-Methyl-2-pentanone (MIBK)	EPA 8260B	8C31024	140	200	ND	40	03/31/08	04/01/08	
n-Propylbenzene	EPA 8260B	8C31024	11	40	ND	40	03/31/08	04/01/08	
Styrene	EPA 8260B	8C31024	8.0	40	ND	40	03/31/08	04/01/08	
1,1,1,2-Tetrachloroethane	EPA 8260B	8C31024	11	40	ND	40	03/31/08	04/01/08	
1,1,2,2-Tetrachloroethane	EPA 8260B	8C31024	12	40	ND	40	03/31/08	04/01/08	
Tetrachloroethene	EPA 8260B	8C31024	13	40	ND	40	03/31/08	04/01/08	
Tetrahydrofuran (THF)	EPA 8260B	8C31024	140	400	ND	40	03/31/08	04/01/08	
Toluene	EPA 8260B	8C31024	14	40	**120**	40	03/31/08	04/01/08	
1,2,3-Trichlorobenzene	EPA 8260B	8C31024	12	40	ND	40	03/31/08	04/01/08	
1,2,4-Trichlorobenzene	EPA 8260B	8C31024	19	40	ND	40	03/31/08	04/01/08	
1,1,1-Trichloroethane	EPA 8260B	8C31024	12	40	**14**	40	03/31/08	04/01/08	Jb
1,1,2-Trichloroethane	EPA 8260B	8C31024	12	40	**48**	40	03/31/08	04/01/08	
Trichlorofluoromethane	EPA 8260B	8C31024	14	80	ND	40	03/31/08	04/01/08	
1,2,3-Trichloropropane	EPA 8260B	8C31024	16	40	ND	40	03/31/08	04/01/08	
1,3,5-Trimethylbenzene	EPA 8260B	8C31024	10	40	ND	40	03/31/08	04/01/08	
1,2,4-Trimethylbenzene	EPA 8260B	8C31024	9.2	40	ND	40	03/31/08	04/01/08	
Vinyl acetate	EPA 8260B	8C31024	40	240	ND	40	03/31/08	04/01/08	
Vinyl chloride	EPA 8260B	8C31024	16	20	**160**	40	03/31/08	04/01/08	
o-Xylene	EPA 8260B	8C31024	12	20	ND	40	03/31/08	04/01/08	
Xylenes, Total	EPA 8260B	8C31024	36	40	ND	40	03/31/08	04/01/08	
m,p-Xylenes	EPA 8260B	8C31024	24	40	ND	40	03/31/08	04/01/08	
Surrogate: Dibromofluoromethane (80-120%)					*99 %*				
Surrogate: Toluene-d8 (80-120%)					*97 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)					*95 %*				

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BOE-C6-0188385

Avocet Environmental Inc.
16 Technology Drive, Suite 154
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Attention: Michael Rendina

Project ID: Boeing C-6 Torrance (02/26/08)
1155.006
Report Number: IRC1931

Sampled: 03/25/08
Received: 03/25/08

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRC1931-08RE1 (AW0055UB_WG20080325_01 - Water) - cont.									
Reporting Units: ug/l									
cis-1,2-Dichloroethene	EPA 8260B	8C29007	64	200	**9100**	200	03/29/08	03/29/08	
1,1-Dichloroethene	EPA 8260B	8C29007	84	200	**19000**	200	03/29/08	03/29/08	
Trichloroethene	EPA 8260B	8C29007	52	200	**11000**	200	03/29/08	03/29/08	
Surrogate: Dibromofluoromethane (80-120%)					*94 %*				
Surrogate: Toluene-d8 (80-120%)					*95 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)					*93 %*				

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Project Manager

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Avocet Environmental Inc.
16 Technology Drive, Suite 154
Irvine, CA 92618
Attention: Michael Rendina

Project ID: Boeing C-6 Torrance (02/26/08)
1155.006
Report Number: IRC1931

Sampled: 03/25/08
Received: 03/25/08

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRC1931-09 (AW0077UB_WG20080325_01 - Water)									
Reporting Units: ug/l									
Vinyl chloride	EPA 8260B	8C28006	80	100	**15000**	200	03/28/08	03/28/08	
Surrogate: Dibromofluoromethane (80-120%)					*103 %*				
Surrogate: Toluene-d8 (80-120%)					*99 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)					*94 %*				
Sample ID: IRC1931-09RE1 (AW0077UB_WG20080325_01 - Water)									
Reporting Units: ug/l									
Acetone	EPA 8260B	8C28006	90	200	**560**	20	03/28/08	03/28/08	
tert-Amyl Methyl Ether (TAME)	EPA 8260B	8C28006	6.6	40	ND	20	03/28/08	03/28/08	
Benzene	EPA 8260B	8C28006	5.6	10	**48**	20	03/28/08	03/28/08	
Bromobenzene	EPA 8260B	8C28006	5.4	20	ND	20	03/28/08	03/28/08	
Bromochloromethane	EPA 8260B	8C28006	8.0	20	ND	20	03/28/08	03/28/08	
Bromodichloromethane	EPA 8260B	8C28006	6.0	20	ND	20	03/28/08	03/28/08	
Bromoform	EPA 8260B	8C28006	8.0	20	ND	20	03/28/08	03/28/08	
Bromomethane	EPA 8260B	8C28006	8.4	20	ND	20	03/28/08	03/28/08	
tert-Butanol (TBA)	EPA 8260B	8C28006	130	500	ND	20	03/28/08	03/28/08	
2-Butanone (MEK)	EPA 8260B	8C28006	94	100	**770**	20	03/28/08	03/28/08	
tert-Butylbenzene	EPA 8260B	8C28006	4.4	20	ND	20	03/28/08	03/28/08	
n-Butylbenzene	EPA 8260B	8C28006	7.4	20	ND	20	03/28/08	03/28/08	
sec-Butylbenzene	EPA 8260B	8C28006	5.0	20	ND	20	03/28/08	03/28/08	
Carbon Disulfide	EPA 8260B	8C28006	9.6	20	ND	20	03/28/08	03/28/08	
Carbon tetrachloride	EPA 8260B	8C28006	5.6	10	ND	20	03/28/08	03/28/08	
Chlorobenzene	EPA 8260B	8C28006	7.2	20	ND	20	03/28/08	03/28/08	
Chloroethane	EPA 8260B	8C28006	8.0	40	**20**	20	03/28/08	03/28/08	Jb
Chloroform	EPA 8260B	8C28006	6.6	20	ND	20	03/28/08	03/28/08	
Chloromethane	EPA 8260B	8C28006	8.0	40	ND	20	03/28/08	03/28/08	
2-Chlorotoluene	EPA 8260B	8C28006	5.6	20	ND	20	03/28/08	03/28/08	
4-Chlorotoluene	EPA 8260B	8C28006	5.8	20	ND	20	03/28/08	03/28/08	
1,2-Dibromo-3-chloropropane	EPA 8260B	8C28006	19	40	ND	20	03/28/08	03/28/08	
Dibromochloromethane	EPA 8260B	8C28006	8.0	20	ND	20	03/28/08	03/28/08	
1,2-Dibromoethane (EDB)	EPA 8260B	8C28006	8.0	20	ND	20	03/28/08	03/28/08	
1,3-Dichlorobenzene	EPA 8260B	8C28006	7.0	20	ND	20	03/28/08	03/28/08	
1,4-Dichlorobenzene	EPA 8260B	8C28006	7.4	20	ND	20	03/28/08	03/28/08	
1,2-Dichlorobenzene	EPA 8260B	8C28006	6.4	20	ND	20	03/28/08	03/28/08	
Dichlorodifluoromethane	EPA 8260B	8C28006	5.2	20	ND	20	03/28/08	03/28/08	
1,1-Dichloroethane	EPA 8260B	8C28006	8.0	20	**340**	20	03/28/08	03/28/08	
1,2-Dichloroethane	EPA 8260B	8C28006	5.6	10	**110**	20	03/28/08	03/28/08	
cis-1,2-Dichloroethene	EPA 8260B	8C28006	6.4	20	**99**	20	03/28/08	03/28/08	
1,1-Dichloroethene	EPA 8260B	8C28006	8.4	20	**32**	20	03/28/08	03/28/08	
trans-1,2-Dichloroethene	EPA 8260B	8C28006	6.0	20	**190**	20	03/28/08	03/28/08	
2,2-Dichloropropane	EPA 8260B	8C28006	6.8	20	ND	20	03/28/08	03/28/08	

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BOE-C6-0188386

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Avocet Environmental Inc.
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Irvine, CA 92618
Attention: Michael Rendina

Project ID: Boeing C-6 Torrance (02/26/08)
1155.006
Report Number: IRC1931

Sampled: 03/25/08
Received: 03/25/08

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRC1931-09RE1 (AW0077UB_WG20080325_01 - Water) - cont.									
Reporting Units: ug/l									
1,2-Dichloropropane	EPA 8260B	8C28006	7.0	20	ND	20	03/28/08	03/28/08	
cis-1,3-Dichloropropene	EPA 8260B	8C28006	4.4	10	ND	20	03/28/08	03/28/08	
1,1-Dichloropropene	EPA 8260B	8C28006	5.6	20	ND	20	03/28/08	03/28/08	
trans-1,3-Dichloropropene	EPA 8260B	8C28006	6.4	10	ND	20	03/28/08	03/28/08	
Di-isopropyl Ether (DIPE)	EPA 8260B	8C28006	5.0	40	**14**	20	03/28/08	03/28/08	Jb
Ethylbenzene	EPA 8260B	8C28006	5.0	20	ND	20	03/28/08	03/28/08	
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	8C28006	5.6	40	ND	20	03/28/08	03/28/08	
Hexachlorobutadiene	EPA 8260B	8C28006	7.6	20	ND	20	03/28/08	03/28/08	
2-Hexanone	EPA 8260B	8C28006	52	120	ND	20	03/28/08	03/28/08	
Iodomethane	EPA 8260B	8C28006	20	40	ND	20	03/28/08	03/28/08	
Isopropylbenzene	EPA 8260B	8C28006	5.0	20	ND	20	03/28/08	03/28/08	
p-Isopropyltoluene	EPA 8260B	8C28006	5.6	20	ND	20	03/28/08	03/28/08	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	8C28006	6.4	20	ND	20	03/28/08	03/28/08	
Methylene chloride	EPA 8260B	8C28006	19	20	ND	20	03/28/08	03/28/08	
4-Methyl-2-pentanone (MIBK)	EPA 8260B	8C28006	70	100	**500**	20	03/28/08	03/28/08	
n-Propylbenzene	EPA 8260B	8C28006	5.4	20	ND	20	03/28/08	03/28/08	
Styrene	EPA 8260B	8C28006	4.0	20	ND	20	03/28/08	03/28/08	
1,1,1,2-Tetrachloroethane	EPA 8260B	8C28006	5.4	20	ND	20	03/28/08	03/28/08	
1,1,2,2-Tetrachloroethane	EPA 8260B	8C28006	6.0	20	ND	20	03/28/08	03/28/08	
Tetrachloroethene	EPA 8260B	8C28006	6.4	20	ND	20	03/28/08	03/28/08	
Tetrahydrofuran (THF)	EPA 8260B	8C28006	70	200	**210**	20	03/28/08	03/28/08	
Toluene	EPA 8260B	8C28006	7.2	20	**530**	20	03/28/08	03/28/08	
1,2,3-Trichlorobenzene	EPA 8260B	8C28006	6.0	20	ND	20	03/28/08	03/28/08	
1,2,4-Trichlorobenzene	EPA 8260B	8C28006	9.6	20	ND	20	03/28/08	03/28/08	
1,1,1-Trichloroethane	EPA 8260B	8C28006	6.0	20	ND	20	03/28/08	03/28/08	
1,1,2-Trichloroethane	EPA 8260B	8C28006	6.0	20	**19**	20	03/28/08	03/28/08	Jb
Trichloroethene	EPA 8260B	8C28006	5.2	20	ND	20	03/28/08	03/28/08	
Trichlorofluoromethane	EPA 8260B	8C28006	6.8	40	ND	20	03/28/08	03/28/08	
1,2,3-Trichloropropane	EPA 8260B	8C28006	8.0	20	ND	20	03/28/08	03/28/08	
1,3,5-Trimethylbenzene	EPA 8260B	8C28006	5.2	20	ND	20	03/28/08	03/28/08	
1,2,4-Trimethylbenzene	EPA 8260B	8C28006	4.6	20	ND	20	03/28/08	03/28/08	
Vinyl acetate	EPA 8260B	8C28006	20	120	ND	20	03/28/08	03/28/08	
o-Xylene	EPA 8260B	8C28006	6.0	10	ND	20	03/28/08	03/28/08	
Xylenes, Total	EPA 8260B	8C28006	18	20	ND	20	03/28/08	03/28/08	
m,p-Xylenes	EPA 8260B	8C28006	12	20	ND	20	03/28/08	03/28/08	
Surrogate: Dibromofluoromethane (80-120%)					*102 %*				
Surrogate: Toluene-d8 (80-120%)					*101 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)					*93 %*				

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Project Manager

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Avocet Environmental Inc.
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Irvine, CA 92618
Attention: Michael Rendina

Project ID: Boeing C-6 Torrance (02/26/08)
1155.006
Report Number: IRC1931

Sampled: 03/25/08
Received: 03/25/08

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRC1931-10 (AW0073C_WG20080325_01 - Water)									
Reporting Units: ug/l									
Tetrahydrofuran (THF)	EPA 8260B	8C28006	350	1000	**9800**	100	03/28/08	03/28/08	
Toluene	EPA 8260B	8C28006	36	100	**3200**	100	03/28/08	03/28/08	
Surrogate: Dibromofluoromethane (80-120%)					*105 %*				
Surrogate: Toluene-d8 (80-120%)					*100 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)					*92 %*				
Sample ID: IRC1931-10RE1 (AW0073C_WG20080325_01 - Water)									
Reporting Units: ug/l									
Acetone	EPA 8260B	8C28006	90	200	**490**	20	03/28/08	03/28/08	
tert-Amyl Methyl Ether (TAME)	EPA 8260B	8C28006	6.6	40	ND	20	03/28/08	03/28/08	
Benzene	EPA 8260B	8C28006	5.6	10	**13**	20	03/28/08	03/28/08	
Bromobenzene	EPA 8260B	8C28006	5.4	20	ND	20	03/28/08	03/28/08	
Bromochloromethane	EPA 8260B	8C28006	8.0	20	ND	20	03/28/08	03/28/08	
Bromodichloromethane	EPA 8260B	8C28006	6.0	20	ND	20	03/28/08	03/28/08	
Bromoform	EPA 8260B	8C28006	8.0	20	ND	20	03/28/08	03/28/08	
Bromomethane	EPA 8260B	8C28006	8.4	20	ND	20	03/28/08	03/28/08	
tert-Butanol (TBA)	EPA 8260B	8C28006	130	500	ND	20	03/28/08	03/28/08	
2-Butanone (MEK)	EPA 8260B	8C28006	94	100	**720**	20	03/28/08	03/28/08	
tert-Butylbenzene	EPA 8260B	8C28006	4.4	20	ND	20	03/28/08	03/28/08	
n-Butylbenzene	EPA 8260B	8C28006	7.4	20	ND	20	03/28/08	03/28/08	
sec-Butylbenzene	EPA 8260B	8C28006	5.0	20	ND	20	03/28/08	03/28/08	
Carbon Disulfide	EPA 8260B	8C28006	9.6	20	ND	20	03/28/08	03/28/08	
Carbon tetrachloride	EPA 8260B	8C28006	5.6	10	ND	20	03/28/08	03/28/08	
Chlorobenzene	EPA 8260B	8C28006	7.2	20	ND	20	03/28/08	03/28/08	
Chloroethane	EPA 8260B	8C28006	8.0	40	ND	20	03/28/08	03/28/08	
Chloroform	EPA 8260B	8C28006	6.6	20	ND	20	03/28/08	03/28/08	
Chloromethane	EPA 8260B	8C28006	8.0	40	ND	20	03/28/08	03/28/08	
2-Chlorotoluene	EPA 8260B	8C28006	5.6	20	ND	20	03/28/08	03/28/08	
4-Chlorotoluene	EPA 8260B	8C28006	5.8	20	ND	20	03/28/08	03/28/08	
1,2-Dibromo-3-chloropropane	EPA 8260B	8C28006	19	40	ND	20	03/28/08	03/28/08	
Dibromochloromethane	EPA 8260B	8C28006	8.0	20	ND	20	03/28/08	03/28/08	
1,2-Dibromoethane (EDB)	EPA 8260B	8C28006	8.0	20	ND	20	03/28/08	03/28/08	
1,3-Dichlorobenzene	EPA 8260B	8C28006	7.0	20	ND	20	03/28/08	03/28/08	
1,4-Dichlorobenzene	EPA 8260B	8C28006	7.4	20	ND	20	03/28/08	03/28/08	
1,2-Dichlorobenzene	EPA 8260B	8C28006	6.4	20	ND	20	03/28/08	03/28/08	
Dichlorodifluoromethane	EPA 8260B	8C28006	5.2	20	ND	20	03/28/08	03/28/08	
1,1-Dichloroethane	EPA 8260B	8C28006	8.0	20	**73**	20	03/28/08	03/28/08	
1,2-Dichloroethane	EPA 8260B	8C28006	5.6	10	**22**	20	03/28/08	03/28/08	
cis-1,2-Dichloroethene	EPA 8260B	8C28006	6.4	20	**290**	20	03/28/08	03/28/08	
1,1-Dichloroethene	EPA 8260B	8C28006	8.4	20	**520**	20	03/28/08	03/28/08	
trans-1,2-Dichloroethene	EPA 8260B	8C28006	6.0	20	**35**	20	03/28/08	03/28/08	

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BOE-C6-0188387

Avocet Environmental Inc.
16 Technology Drive, Suite 154
Irvine, CA 92618
Attention: Michael Rendina

Project ID: Boeing C-6 Torrance (02/26/08)
1155.006
Report Number: IRC1931

Sampled: 03/25/08
Received: 03/25/08

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRC1931-10RE1 (AW0073C_WG20080325_01 - Water) - cont.									
Reporting Units: ug/l									
2,2-Dichloropropane	EPA 8260B	8C28006	6.8	20	ND	20	03/28/08	03/28/08	
1,2-Dichloropropane	EPA 8260B	8C28006	7.0	20	ND	20	03/28/08	03/28/08	
cis-1,3-Dichloropropene	EPA 8260B	8C28006	4.4	10	ND	20	03/28/08	03/28/08	
1,1-Dichloropropene	EPA 8260B	8C28006	5.6	20	ND	20	03/28/08	03/28/08	
trans-1,3-Dichloropropene	EPA 8260B	8C28006	6.4	10	ND	20	03/28/08	03/28/08	
Di-isopropyl Ether (DIPE)	EPA 8260B	8C28006	5.0	40	ND	20	03/28/08	03/28/08	
Ethylbenzene	EPA 8260B	8C28006	5.0	20	ND	20	03/28/08	03/28/08	
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	8C28006	5.6	40	ND	20	03/28/08	03/28/08	
Hexachlorobutadiene	EPA 8260B	8C28006	7.6	20	ND	20	03/28/08	03/28/08	
2-Hexanone	EPA 8260B	8C28006	52	120	ND	20	03/28/08	03/28/08	
Iodomethane	EPA 8260B	8C28006	20	40	ND	20	03/28/08	03/28/08	
Isopropylbenzene	EPA 8260B	8C28006	5.0	20	ND	20	03/28/08	03/28/08	
p-Isopropyltoluene	EPA 8260B	8C28006	5.6	20	ND	20	03/28/08	03/28/08	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	8C28006	6.4	20	ND	20	03/28/08	03/28/08	
Methylene chloride	EPA 8260B	8C28006	19	20	ND	20	03/28/08	03/28/08	
4-Methyl-2-pentanone (MIBK)	EPA 8260B	8C28006	70	100	**300**	20	03/28/08	03/28/08	
n-Propylbenzene	EPA 8260B	8C28006	5.4	20	ND	20	03/28/08	03/28/08	
Styrene	EPA 8260B	8C28006	4.0	20	ND	20	03/28/08	03/28/08	
1,1,1,2-Tetrachloroethane	EPA 8260B	8C28006	5.4	20	ND	20	03/28/08	03/28/08	
1,1,2,2-Tetrachloroethane	EPA 8260B	8C28006	6.0	20	ND	20	03/28/08	03/28/08	
Tetrachloroethene	EPA 8260B	8C28006	6.4	20	ND	20	03/28/08	03/28/08	
1,2,3-Trichlorobenzene	EPA 8260B	8C28006	6.0	20	ND	20	03/28/08	03/28/08	
1,2,4-Trichlorobenzene	EPA 8260B	8C28006	9.6	20	ND	20	03/28/08	03/28/08	
1,1,1-Trichloroethane	EPA 8260B	8C28006	6.0	20	**53**	20	03/28/08	03/28/08	
1,1,2-Trichloroethane	EPA 8260B	8C28006	6.0	20	**7.0**	20	03/28/08	03/28/08	Jb
Trichloroethene	EPA 8260B	8C28006	5.2	20	**14**	20	03/28/08	03/28/08	Jb
Trichlorofluoromethane	EPA 8260B	8C28006	6.8	40	ND	20	03/28/08	03/28/08	
1,2,3-Trichloropropane	EPA 8260B	8C28006	8.0	20	ND	20	03/28/08	03/28/08	
1,3,5-Trimethylbenzene	EPA 8260B	8C28006	5.2	20	ND	20	03/28/08	03/28/08	
1,2,4-Trimethylbenzene	EPA 8260B	8C28006	4.6	20	ND	20	03/28/08	03/28/08	
Vinyl acetate	EPA 8260B	8C28006	20	120	ND	20	03/28/08	03/28/08	
Vinyl chloride	EPA 8260B	8C28006	8.0	10	**810**	20	03/28/08	03/28/08	
o-Xylene	EPA 8260B	8C28006	6.0	10	ND	20	03/28/08	03/28/08	
Xylenes, Total	EPA 8260B	8C28006	18	20	**18**	20	03/28/08	03/28/08	Jb
m,p-Xylenes	EPA 8260B	8C28006	12	20	**14**	20	03/28/08	03/28/08	Jb
Surrogate: Dibromofluoromethane (80-120%)					*103 %*				
Surrogate: Toluene-d8 (80-120%)					*101 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)					*97 %*				

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Project Manager

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Avocet Environmental Inc.
16 Technology Drive, Suite 154
Irvine, CA 92618
Attention: Michael Rendina

Project ID: Boeing C-6 Torrance (02/26/08)
1155.006
Report Number: IRC1931

Sampled: 03/25/08
Received: 03/25/08

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRC1931-11 (WCC_12S_WG20080325_01 - Water)									
Reporting Units: ug/l									
Acetone	EPA 8260B	8C31024	4.5	10	**18**	1	03/31/08	03/31/08	
tert-Amyl Methyl Ether (TAME)	EPA 8260B	8C31024	0.33	2.0	ND	1	03/31/08	03/31/08	
Benzene	EPA 8260B	8C31024	0.28	0.50	ND	1	03/31/08	03/31/08	
Bromobenzene	EPA 8260B	8C31024	0.27	1.0	ND	1	03/31/08	03/31/08	
Bromochloromethane	EPA 8260B	8C31024	0.40	1.0	ND	1	03/31/08	03/31/08	
Bromodichloromethane	EPA 8260B	8C31024	0.30	1.0	**0.47**	1	03/31/08	03/31/08	Jb
Bromoform	EPA 8260B	8C31024	0.40	1.0	ND	1	03/31/08	03/31/08	
Bromomethane	EPA 8260B	8C31024	0.42	1.0	ND	1	03/31/08	03/31/08	
tert-Butanol (TBA)	EPA 8260B	8C31024	6.5	25	ND	1	03/31/08	03/31/08	
2-Butanone (MEK)	EPA 8260B	8C31024	4.7	5.0	ND	1	03/31/08	03/31/08	
tert-Butylbenzene	EPA 8260B	8C31024	0.22	1.0	ND	1	03/31/08	03/31/08	
n-Butylbenzene	EPA 8260B	8C31024	0.37	1.0	ND	1	03/31/08	03/31/08	
sec-Butylbenzene	EPA 8260B	8C31024	0.25	1.0	ND	1	03/31/08	03/31/08	
Carbon Disulfide	EPA 8260B	8C31024	0.48	1.0	ND	1	03/31/08	03/31/08	
Carbon tetrachloride	EPA 8260B	8C31024	0.28	0.50	ND	1	03/31/08	03/31/08	
Chlorobenzene	EPA 8260B	8C31024	0.36	1.0	ND	1	03/31/08	03/31/08	
Chloroethane	EPA 8260B	8C31024	0.40	2.0	ND	1	03/31/08	03/31/08	
Chloroform	EPA 8260B	8C31024	0.33	1.0	**2.5**	1	03/31/08	03/31/08	
Chloromethane	EPA 8260B	8C31024	0.40	2.0	ND	1	03/31/08	03/31/08	
2-Chlorotoluene	EPA 8260B	8C31024	0.28	1.0	ND	1	03/31/08	03/31/08	
4-Chlorotoluene	EPA 8260B	8C31024	0.29	1.0	ND	1	03/31/08	03/31/08	
1,2-Dibromo-3-chloropropane	EPA 8260B	8C31024	0.97	2.0	ND	1	03/31/08	03/31/08	
Dibromochloromethane	EPA 8260B	8C31024	0.40	1.0	ND	1	03/31/08	03/31/08	
1,2-Dibromoethane (EDB)	EPA 8260B	8C31024	0.40	1.0	ND	1	03/31/08	03/31/08	
1,3-Dichlorobenzene	EPA 8260B	8C31024	0.35	1.0	ND	1	03/31/08	03/31/08	
1,4-Dichlorobenzene	EPA 8260B	8C31024	0.37	1.0	ND	1	03/31/08	03/31/08	
1,2-Dichlorobenzene	EPA 8260B	8C31024	0.32	1.0	ND	1	03/31/08	03/31/08	
Dichlorodifluoromethane	EPA 8260B	8C31024	0.26	1.0	ND	1	03/31/08	03/31/08	
1,1-Dichloroethane	EPA 8260B	8C31024	0.40	1.0	**4.0**	1	03/31/08	03/31/08	
1,2-Dichloroethane	EPA 8260B	8C31024	0.28	0.50	ND	1	03/31/08	03/31/08	
cis-1,2-Dichloroethene	EPA 8260B	8C31024	0.32	1.0	ND	1	03/31/08	03/31/08	
trans-1,2-Dichloroethene	EPA 8260B	8C31024	0.30	1.0	ND	1	03/31/08	03/31/08	
2,2-Dichloropropane	EPA 8260B	8C31024	0.34	1.0	ND	1	03/31/08	03/31/08	
1,2-Dichloropropane	EPA 8260B	8C31024	0.35	1.0	ND	1	03/31/08	03/31/08	
cis-1,3-Dichloropropene	EPA 8260B	8C31024	0.22	0.50	ND	1	03/31/08	03/31/08	
1,1-Dichloropropene	EPA 8260B	8C31024	0.28	1.0	ND	1	03/31/08	03/31/08	
trans-1,3-Dichloropropene	EPA 8260B	8C31024	0.32	0.50	ND	1	03/31/08	03/31/08	
Di-isopropyl Ether (DIPE)	EPA 8260B	8C31024	0.25	2.0	ND	1	03/31/08	03/31/08	
Ethylbenzene	EPA 8260B	8C31024	0.25	1.0	ND	1	03/31/08	03/31/08	
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	8C31024	0.28	2.0	ND	1	03/31/08	03/31/08	
Hexachlorobutadiene	EPA 8260B	8C31024	0.38	1.0	ND	1	03/31/08	03/31/08	

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Avocet Environmental Inc.
16 Technology Drive, Suite 154
Irvine, CA 92618
Attention: Michael Rendina

Project ID: Boeing C-6 Torrance (02/26/08)
1155.006
Report Number: IRC1931

Sampled: 03/25/08
Received: 03/25/08

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRC1931-11 (WCC_12S_WG20080325_01 - Water) - cont.									
Reporting Units: ug/l									
2-Hexanone	EPA 8260B	8C31024	2.6	6.0	ND	1	03/31/08	03/31/08	
Iodomethane	EPA 8260B	8C31024	1.0	2.0	ND	1	03/31/08	03/31/08	
Isopropylbenzene	EPA 8260B	8C31024	0.25	1.0	ND	1	03/31/08	03/31/08	
p-Isopropyltoluene	EPA 8260B	8C31024	0.28	1.0	ND	1	03/31/08	03/31/08	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	8C31024	0.32	1.0	ND	1	03/31/08	03/31/08	
Methylene chloride	EPA 8260B	8C31024	0.95	1.0	ND	1	03/31/08	03/31/08	
4-Methyl-2-pentanone (MIBK)	EPA 8260B	8C31024	3.5	5.0	ND	1	03/31/08	03/31/08	
n-Propylbenzene	EPA 8260B	8C31024	0.27	1.0	ND	1	03/31/08	03/31/08	
Styrene	EPA 8260B	8C31024	0.20	1.0	ND	1	03/31/08	03/31/08	
1,1,1,2-Tetrachloroethane	EPA 8260B	8C31024	0.27	1.0	ND	1	03/31/08	03/31/08	
1,1,2,2-Tetrachloroethane	EPA 8260B	8C31024	0.30	1.0	ND	1	03/31/08	03/31/08	
Tetrachloroethene	EPA 8260B	8C31024	0.32	1.0	ND	1	03/31/08	03/31/08	
Tetrahydrofuran (THF)	EPA 8260B	8C31024	3.5	10	ND	1	03/31/08	03/31/08	
Toluene	EPA 8260B	8C31024	0.36	1.0	ND	1	03/31/08	03/31/08	
1,2,3-Trichlorobenzene	EPA 8260B	8C31024	0.30	1.0	ND	1	03/31/08	03/31/08	
1,2,4-Trichlorobenzene	EPA 8260B	8C31024	0.48	1.0	ND	1	03/31/08	03/31/08	
1,1,1-Trichloroethane	EPA 8260B	8C31024	0.30	1.0	ND	1	03/31/08	03/31/08	
1,1,2-Trichloroethane	EPA 8260B	8C31024	0.30	1.0	ND	1	03/31/08	03/31/08	
Trichloroethene	EPA 8260B	8C31024	0.26	1.0	**35**	1	03/31/08	03/31/08	
Trichlorofluoromethane	EPA 8260B	8C31024	0.34	2.0	ND	1	03/31/08	03/31/08	
1,2,3-Trichloropropane	EPA 8260B	8C31024	0.40	1.0	ND	1	03/31/08	03/31/08	
1,3,5-Trimethylbenzene	EPA 8260B	8C31024	0.26	1.0	ND	1	03/31/08	03/31/08	
1,2,4-Trimethylbenzene	EPA 8260B	8C31024	0.23	1.0	ND	1	03/31/08	03/31/08	
Vinyl acetate	EPA 8260B	8C31024	1.0	6.0	ND	1	03/31/08	03/31/08	
Vinyl chloride	EPA 8260B	8C31024	0.40	0.50	ND	1	03/31/08	03/31/08	
o-Xylene	EPA 8260B	8C31024	0.30	0.50	ND	1	03/31/08	03/31/08	
Xylenes, Total	EPA 8260B	8C31024	0.90	1.0	ND	1	03/31/08	03/31/08	
m,p-Xylenes	EPA 8260B	8C31024	0.60	1.0	ND	1	03/31/08	03/31/08	
Surrogate: Dibromofluoromethane (80-120%)					*100 %*				
Surrogate: Toluene-d8 (80-120%)					*100 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)					*93 %*				

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Avocet Environmental Inc.
16 Technology Drive, Suite 154
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Attention: Michael Rendina

Project ID: Boeing C-6 Torrance (02/26/08)
1155.006
Report Number: IRC1931

Sampled: 03/25/08
Received: 03/25/08

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRC1931-11RE1 (WCC_12S_WG20080325_01 - Water) - cont.									
Reporting Units: ug/l									
1,1-Dichloroethene	EPA 8260B	8D01019	0.42	1.0	**2.3**	1	04/01/08	04/01/08	
Surrogate: Dibromofluoromethane (80-120%)					*93 %*				
Surrogate: Toluene-d8 (80-120%)					*97 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)					*98 %*				

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BOE-C6-0188389

Avocet Environmental Inc.
16 Technology Drive, Suite 154
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Attention: Michael Rendina

Project ID: Boeing C-6 Torrance (02/26/08)
1155.006
Report Number: IRC1931

Sampled: 03/25/08
Received: 03/25/08

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Sample ID: IRC1931-12 (WCC_12S_WG20080325_02 - Water)

Reporting Units: ug/l

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Acetone	EPA 8260B	8C31024	4.5	10	**12**	1	03/31/08	04/01/08	
tert-Amyl Methyl Ether (TAME)	EPA 8260B	8C31024	0.33	2.0	ND	1	03/31/08	04/01/08	
Benzene	EPA 8260B	8C31024	0.28	0.50	ND	1	03/31/08	04/01/08	
Bromobenzene	EPA 8260B	8C31024	0.27	1.0	ND	1	03/31/08	04/01/08	
Bromochloromethane	EPA 8260B	8C31024	0.40	1.0	ND	1	03/31/08	04/01/08	
Bromodichloromethane	EPA 8260B	8C31024	0.30	1.0	**0.43**	1	03/31/08	04/01/08	Jb
Bromoform	EPA 8260B	8C31024	0.40	1.0	ND	1	03/31/08	04/01/08	
Bromomethane	EPA 8260B	8C31024	0.42	1.0	ND	1	03/31/08	04/01/08	
tert-Butanol (TBA)	EPA 8260B	8C31024	6.5	25	ND	1	03/31/08	04/01/08	
2-Butanone (MEK)	EPA 8260B	8C31024	4.7	5.0	ND	1	03/31/08	04/01/08	
tert-Butylbenzene	EPA 8260B	8C31024	0.22	1.0	ND	1	03/31/08	04/01/08	
n-Butylbenzene	EPA 8260B	8C31024	0.37	1.0	ND	1	03/31/08	04/01/08	
sec-Butylbenzene	EPA 8260B	8C31024	0.25	1.0	ND	1	03/31/08	04/01/08	
Carbon Disulfide	EPA 8260B	8C31024	0.48	1.0	ND	1	03/31/08	04/01/08	
Carbon tetrachloride	EPA 8260B	8C31024	0.28	0.50	ND	1	03/31/08	04/01/08	
Chlorobenzene	EPA 8260B	8C31024	0.36	1.0	ND	1	03/31/08	04/01/08	
Chloroethane	EPA 8260B	8C31024	0.40	2.0	ND	1	03/31/08	04/01/08	
Chloroform	EPA 8260B	8C31024	0.33	1.0	**2.4**	1	03/31/08	04/01/08	
Chloromethane	EPA 8260B	8C31024	0.40	2.0	ND	1	03/31/08	04/01/08	
2-Chlorotoluene	EPA 8260B	8C31024	0.28	1.0	ND	1	03/31/08	04/01/08	
4-Chlorotoluene	EPA 8260B	8C31024	0.29	1.0	ND	1	03/31/08	04/01/08	
1,2-Dibromo-3-chloropropane	EPA 8260B	8C31024	0.97	2.0	ND	1	03/31/08	04/01/08	
Dibromochloromethane	EPA 8260B	8C31024	0.40	1.0	ND	1	03/31/08	04/01/08	
1,2-Dibromoethane (EDB)	EPA 8260B	8C31024	0.40	1.0	ND	1	03/31/08	04/01/08	
1,3-Dichlorobenzene	EPA 8260B	8C31024	0.35	1.0	ND	1	03/31/08	04/01/08	
1,4-Dichlorobenzene	EPA 8260B	8C31024	0.37	1.0	ND	1	03/31/08	04/01/08	
1,2-Dichlorobenzene	EPA 8260B	8C31024	0.32	1.0	ND	1	03/31/08	04/01/08	
Dichlorodifluoromethane	EPA 8260B	8C31024	0.26	1.0	ND	1	03/31/08	04/01/08	
1,1-Dichloroethane	EPA 8260B	8C31024	0.40	1.0	**4.2**	1	03/31/08	04/01/08	
1,2-Dichloroethane	EPA 8260B	8C31024	0.28	0.50	ND	1	03/31/08	04/01/08	
cis-1,2-Dichloroethene	EPA 8260B	8C31024	0.32	1.0	ND	1	03/31/08	04/01/08	
trans-1,2-Dichloroethene	EPA 8260B	8C31024	0.30	1.0	ND	1	03/31/08	04/01/08	
2,2-Dichloropropane	EPA 8260B	8C31024	0.34	1.0	ND	1	03/31/08	04/01/08	
1,2-Dichloropropane	EPA 8260B	8C31024	0.35	1.0	ND	1	03/31/08	04/01/08	
cis-1,3-Dichloropropene	EPA 8260B	8C31024	0.22	0.50	ND	1	03/31/08	04/01/08	
1,1-Dichloropropene	EPA 8260B	8C31024	0.28	1.0	ND	1	03/31/08	04/01/08	
trans-1,3-Dichloropropene	EPA 8260B	8C31024	0.32	0.50	ND	1	03/31/08	04/01/08	
Di-isopropyl Ether (DIPE)	EPA 8260B	8C31024	0.25	2.0	ND	1	03/31/08	04/01/08	
Ethylbenzene	EPA 8260B	8C31024	0.25	1.0	ND	1	03/31/08	04/01/08	
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	8C31024	0.28	2.0	ND	1	03/31/08	04/01/08	
Hexachlorobutadiene	EPA 8260B	8C31024	0.38	1.0	ND	1	03/31/08	04/01/08	

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Project Manager

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Avocet Environmental Inc.
16 Technology Drive, Suite 154
Irvine, CA 92618
Attention: Michael Rendina

Project ID: Boeing C-6 Torrance (02/26/08)
1155.006
Report Number: IRC1931

Sampled: 03/25/08
Received: 03/25/08

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Sample ID: IRC1931-12 (WCC_12S_WG20080325_02 - Water) - cont.

Reporting Units: ug/l

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
2-Hexanone	EPA 8260B	8C31024	2.6	6.0	ND	1	03/31/08	04/01/08	
Iodomethane	EPA 8260B	8C31024	1.0	2.0	ND	1	03/31/08	04/01/08	
Isopropylbenzene	EPA 8260B	8C31024	0.25	1.0	ND	1	03/31/08	04/01/08	
p-Isopropyltoluene	EPA 8260B	8C31024	0.28	1.0	ND	1	03/31/08	04/01/08	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	8C31024	0.32	1.0	ND	1	03/31/08	04/01/08	
Methylene chloride	EPA 8260B	8C31024	0.95	1.0	ND	1	03/31/08	04/01/08	
4-Methyl-2-pentanone (MIBK)	EPA 8260B	8C31024	3.5	5.0	ND	1	03/31/08	04/01/08	
n-Propylbenzene	EPA 8260B	8C31024	0.27	1.0	ND	1	03/31/08	04/01/08	
Styrene	EPA 8260B	8C31024	0.20	1.0	ND	1	03/31/08	04/01/08	
1,1,1,2-Tetrachloroethane	EPA 8260B	8C31024	0.27	1.0	ND	1	03/31/08	04/01/08	
1,1,2,2-Tetrachloroethane	EPA 8260B	8C31024	0.30	1.0	ND	1	03/31/08	04/01/08	
Tetrachloroethene	EPA 8260B	8C31024	0.32	1.0	**0.32**	1	03/31/08	04/01/08	Jb
Tetrahydrofuran (THF)	EPA 8260B	8C31024	3.5	10	ND	1	03/31/08	04/01/08	
Toluene	EPA 8260B	8C31024	0.36	1.0	ND	1	03/31/08	04/01/08	
1,2,3-Trichlorobenzene	EPA 8260B	8C31024	0.30	1.0	ND	1	03/31/08	04/01/08	
1,2,4-Trichlorobenzene	EPA 8260B	8C31024	0.48	1.0	ND	1	03/31/08	04/01/08	
1,1,1-Trichloroethane	EPA 8260B	8C31024	0.30	1.0	ND	1	03/31/08	04/01/08	
1,1,2-Trichloroethane	EPA 8260B	8C31024	0.30	1.0	ND	1	03/31/08	04/01/08	
Trichloroethene	EPA 8260B	8C31024	0.26	1.0	**35**	1	03/31/08	04/01/08	
Trichlorofluoromethane	EPA 8260B	8C31024	0.34	2.0	ND	1	03/31/08	04/01/08	
1,2,3-Trichloropropane	EPA 8260B	8C31024	0.40	1.0	ND	1	03/31/08	04/01/08	
1,3,5-Trimethylbenzene	EPA 8260B	8C31024	0.26	1.0	ND	1	03/31/08	04/01/08	
1,2,4-Trimethylbenzene	EPA 8260B	8C31024	0.23	1.0	ND	1	03/31/08	04/01/08	
Vinyl acetate	EPA 8260B	8C31024	1.0	6.0	ND	1	03/31/08	04/01/08	
Vinyl chloride	EPA 8260B	8C31024	0.40	0.50	ND	1	03/31/08	04/01/08	
o-Xylene	EPA 8260B	8C31024	0.30	0.50	ND	1	03/31/08	04/01/08	
Xylenes, Total	EPA 8260B	8C31024	0.90	1.0	ND	1	03/31/08	04/01/08	
m,p-Xylenes	EPA 8260B	8C31024	0.60	1.0	ND	1	03/31/08	04/01/08	
Surrogate: Dibromofluoromethane (80-120%)					*101 %*				
Surrogate: Toluene-d8 (80-120%)					*100 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)					*95 %*				

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BOE-C6-0188390

Avocet Environmental Inc.
16 Technology Drive, Suite 154
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Attention: Michael Rendina

Project ID: Boeing C-6 Torrance (02/26/08)
1155.006
Report Number: IRC1931

Sampled: 03/25/08
Received: 03/25/08

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRC1931-12RE1 (WCC_12S_WG20080325_02 - Water) - cont.									
Reporting Units: ug/l									
1,1-Dichloroethene	EPA 8260B	8D01019	0.42	1.0	**2.6**	1	04/01/08	04/01/08	
Surrogate: Dibromofluoromethane (80-120%)					*94 %*				
Surrogate: Toluene-d8 (80-120%)					*98 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)					*97 %*				

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Attention: Michael Rendina

Project ID: Boeing C-6 Torrance (02/26/08)
1155.006
Report Number: IRC1931

Sampled: 03/25/08
Received: 03/25/08

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRC1931-13 (EB_AVO20080325_01 - Water)									
Reporting Units: ug/l									
tert-Amyl Methyl Ether (TAME)	EPA 8260B	8C28006	0.33	2.0	ND	1	03/28/08	03/28/08	
Benzene	EPA 8260B	8C28006	0.28	0.50	ND	1	03/28/08	03/28/08	
Bromobenzene	EPA 8260B	8C28006	0.27	1.0	ND	1	03/28/08	03/28/08	
Bromochloromethane	EPA 8260B	8C28006	0.40	1.0	ND	1	03/28/08	03/28/08	
Bromodichloromethane	EPA 8260B	8C28006	0.30	1.0	ND	1	03/28/08	03/28/08	
Bromoform	EPA 8260B	8C28006	0.40	1.0	ND	1	03/28/08	03/28/08	
Bromomethane	EPA 8260B	8C28006	0.42	1.0	ND	1	03/28/08	03/28/08	
tert-Butanol (TBA)	EPA 8260B	8C28006	6.5	25	ND	1	03/28/08	03/28/08	
2-Butanone (MEK)	EPA 8260B	8C28006	4.7	5.0	ND	1	03/28/08	03/28/08	
tert-Butylbenzene	EPA 8260B	8C28006	0.22	1.0	ND	1	03/28/08	03/28/08	
n-Butylbenzene	EPA 8260B	8C28006	0.37	1.0	ND	1	03/28/08	03/28/08	
sec-Butylbenzene	EPA 8260B	8C28006	0.25	1.0	ND	1	03/28/08	03/28/08	
Carbon Disulfide	EPA 8260B	8C28006	0.48	1.0	ND	1	03/28/08	03/28/08	
Carbon tetrachloride	EPA 8260B	8C28006	0.28	0.50	ND	1	03/28/08	03/28/08	
Chlorobenzene	EPA 8260B	8C28006	0.36	1.0	ND	1	03/28/08	03/28/08	
Chloroethane	EPA 8260B	8C28006	0.40	2.0	ND	1	03/28/08	03/28/08	
Chloromethane	EPA 8260B	8C28006	0.40	2.0	ND	1	03/28/08	03/28/08	
2-Chlorotoluene	EPA 8260B	8C28006	0.28	1.0	ND	1	03/28/08	03/28/08	
4-Chlorotoluene	EPA 8260B	8C28006	0.29	1.0	ND	1	03/28/08	03/28/08	
1,2-Dibromo-3-chloropropane	EPA 8260B	8C28006	0.97	2.0	ND	1	03/28/08	03/28/08	
Dibromochloromethane	EPA 8260B	8C28006	0.40	1.0	ND	1	03/28/08	03/28/08	
1,2-Dibromoethane (EDB)	EPA 8260B	8C28006	0.40	1.0	ND	1	03/28/08	03/28/08	
1,3-Dichlorobenzene	EPA 8260B	8C28006	0.35	1.0	ND	1	03/28/08	03/28/08	
1,4-Dichlorobenzene	EPA 8260B	8C28006	0.37	1.0	ND	1	03/28/08	03/28/08	
1,2-Dichlorobenzene	EPA 8260B	8C28006	0.32	1.0	ND	1	03/28/08	03/28/08	
Dichlorodifluoromethane	EPA 8260B	8C28006	0.26	1.0	ND	1	03/28/08	03/28/08	
1,1-Dichloroethane	EPA 8260B	8C28006	0.40	1.0	ND	1	03/28/08	03/28/08	
1,2-Dichloroethane	EPA 8260B	8C28006	0.28	0.50	ND	1	03/28/08	03/28/08	
cis-1,2-Dichloroethene	EPA 8260B	8C28006	0.32	1.0	ND	1	03/28/08	03/28/08	
1,1-Dichloroethene	EPA 8260B	8C28006	0.42	1.0	ND	1	03/28/08	03/28/08	
trans-1,2-Dichloroethene	EPA 8260B	8C28006	0.30	1.0	ND	1	03/28/08	03/28/08	
2,2-Dichloropropane	EPA 8260B	8C28006	0.34	1.0	ND	1	03/28/08	03/28/08	
1,2-Dichloropropane	EPA 8260B	8C28006	0.35	1.0	ND	1	03/28/08	03/28/08	
cis-1,3-Dichloropropene	EPA 8260B	8C28006	0.22	0.50	ND	1	03/28/08	03/28/08	
1,1-Dichloropropene	EPA 8260B	8C28006	0.28	1.0	ND	1	03/28/08	03/28/08	
trans-1,3-Dichloropropene	EPA 8260B	8C28006	0.32	0.50	ND	1	03/28/08	03/28/08	
Di-isopropyl Ether (DIPE)	EPA 8260B	8C28006	0.25	2.0	ND	1	03/28/08	03/28/08	
Ethylbenzene	EPA 8260B	8C28006	0.25	1.0	ND	1	03/28/08	03/28/08	
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	8C28006	0.28	2.0	ND	1	03/28/08	03/28/08	
Hexachlorobutadiene	EPA 8260B	8C28006	0.38	1.0	ND	1	03/28/08	03/28/08	
2-Hexanone	EPA 8260B	8C28006	2.6	6.0	ND	1	03/28/08	03/28/08	

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BOE-C6-0188391

Avocet Environmental Inc.
16 Technology Drive, Suite 154
Irvine, CA 92618
Attention: Michael Rendina

Project ID: Boeing C-6 Torrance (02/26/08)
1155.006
Report Number: IRC1931

Sampled: 03/25/08
Received: 03/25/08

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRC1931-13 (EB_AVO20080325_01 - Water) - cont.									
Reporting Units: ug/l									
Iodomethane	EPA 8260B	8C28006	1.0	2.0	ND	1	03/28/08	03/28/08	
Isopropylbenzene	EPA 8260B	8C28006	0.25	1.0	ND	1	03/28/08	03/28/08	
p-Isopropyltoluene	EPA 8260B	8C28006	0.28	1.0	ND	1	03/28/08	03/28/08	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	8C28006	0.32	1.0	ND	1	03/28/08	03/28/08	
Methylene chloride	EPA 8260B	8C28006	0.95	1.0	ND	1	03/28/08	03/28/08	
4-Methyl-2-pentanone (MIBK)	EPA 8260B	8C28006	3.5	5.0	ND	1	03/28/08	03/28/08	
n-Propylbenzene	EPA 8260B	8C28006	0.27	1.0	ND	1	03/28/08	03/28/08	
Styrene	EPA 8260B	8C28006	0.20	1.0	ND	1	03/28/08	03/28/08	
1,1,1,2-Tetrachloroethane	EPA 8260B	8C28006	0.27	1.0	ND	1	03/28/08	03/28/08	
1,1,2,2-Tetrachloroethane	EPA 8260B	8C28006	0.30	1.0	ND	1	03/28/08	03/28/08	
Tetrachloroethene	EPA 8260B	8C28006	0.32	1.0	ND	1	03/28/08	03/28/08	
Tetrahydrofuran (THF)	EPA 8260B	8C28006	3.5	10	ND	1	03/28/08	03/28/08	
Toluene	EPA 8260B	8C28006	0.36	1.0	ND	1	03/28/08	03/28/08	
1,2,3-Trichlorobenzene	EPA 8260B	8C28006	0.30	1.0	ND	1	03/28/08	03/28/08	
1,2,4-Trichlorobenzene	EPA 8260B	8C28006	0.48	1.0	ND	1	03/28/08	03/28/08	
1,1,1-Trichloroethane	EPA 8260B	8C28006	0.30	1.0	ND	1	03/28/08	03/28/08	
1,1,2-Trichloroethane	EPA 8260B	8C28006	0.30	1.0	ND	1	03/28/08	03/28/08	
Trichloroethene	EPA 8260B	8C28006	0.26	1.0	ND	1	03/28/08	03/28/08	
Trichlorofluoromethane	EPA 8260B	8C28006	0.34	2.0	ND	1	03/28/08	03/28/08	
1,2,3-Trichloropropane	EPA 8260B	8C28006	0.40	1.0	ND	1	03/28/08	03/28/08	
1,3,5-Trimethylbenzene	EPA 8260B	8C28006	0.26	1.0	ND	1	03/28/08	03/28/08	
1,2,4-Trimethylbenzene	EPA 8260B	8C28006	0.23	1.0	ND	1	03/28/08	03/28/08	
Vinyl acetate	EPA 8260B	8C28006	1.0	6.0	ND	1	03/28/08	03/28/08	
Vinyl chloride	EPA 8260B	8C28006	0.40	0.50	ND	1	03/28/08	03/28/08	
o-Xylene	EPA 8260B	8C28006	0.30	0.50	ND	1	03/28/08	03/28/08	
Xylenes, Total	EPA 8260B	8C28006	0.90	1.0	ND	1	03/28/08	03/28/08	
m,p-Xylenes	EPA 8260B	8C28006	0.60	1.0	ND	1	03/28/08	03/28/08	
Surrogate: Dibromofluoromethane (80-120%)					*102 %*				
Surrogate: Toluene-d8 (80-120%)					*97 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)					*93 %*				

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Project Manager

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Avocet Environmental Inc.
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Attention: Michael Rendina

Project ID: Boeing C-6 Torrance (02/26/08)
1155.006
Report Number: IRC1931

Sampled: 03/25/08
Received: 03/25/08

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRC1931-13RE1 (EB_AVO20080325_01 - Water) - cont.									
Reporting Units: ug/l									
Acetone	EPA 8260B	8C28019	4.5	10	**28**	1	03/28/08	03/29/08	
Chloroform	EPA 8260B	8C28019	0.33	1.0	**1.2**	1	03/28/08	03/29/08	
Surrogate: Dibromofluoromethane (80-120%)					*94 %*				
Surrogate: Toluene-d8 (80-120%)					*94 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)					*93 %*				

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BOE-C6-0188392

Avocet Environmental Inc.
16 Technology Drive, Suite 154
Irvine, CA 92618
Attention: Michael Rendina

Project ID: Boeing C-6 Torrance (02/26/08)
1155.006
Report Number: IRC1931

Sampled: 03/25/08
Received: 03/25/08

INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRC1931-02 (AW0076UB_WG20080325_01 - Water)									
Reporting Units: mg/l									
Alkalinity as CaCO3	EPA 310.1	8C28056	2.0	2.0	**800**	1	03/28/08	03/28/08	
Chloride	EPA 300.0	8C25049	12	25	**640**	50	03/25/08	03/26/08	
Nitrate-NO3	EPA 300.0	8C25049	0.50	1.0	ND	2	03/25/08	03/25/08	RL1
Nitrite-NO2	EPA 300.0	8C25049	0.60	1.0	ND	2	03/25/08	03/25/08	RL1
Sulfate	EPA 300.0	8C25049	0.40	1.0	**0.52**	2	03/25/08	03/25/08	RL1, Jb
Sample ID: IRC1931-03 (EWB002_WG20080325_01 - Water)									
Reporting Units: mg/l									
Alkalinity as CaCO3	EPA 310.1	8C28056	2.0	2.0	**600**	1	03/28/08	03/28/08	
Chloride	EPA 300.0	8C25049	12	25	**490**	50	03/25/08	03/26/08	
Nitrate-NO3	EPA 300.0	8C25049	0.25	0.50	ND	1	03/25/08	03/25/08	
Nitrite-NO2	EPA 300.0	8C25049	0.30	0.50	ND	1	03/25/08	03/25/08	
Sulfate	EPA 300.0	8C25049	0.20	0.50	**0.58**	1	03/25/08	03/25/08	
Sample ID: IRC1931-04 (AW0075UB_WG20080325_01 - Water)									
Reporting Units: mg/l									
Alkalinity as CaCO3	EPA 310.1	8C28056	2.0	2.0	**480**	1	03/28/08	03/28/08	
Chloride	EPA 300.0	8C25049	12	25	**560**	50	03/25/08	03/26/08	
Nitrate-NO3	EPA 300.0	8C25049	0.25	0.50	ND	1	03/25/08	03/25/08	
Nitrite-NO2	EPA 300.0	8C25049	0.30	0.50	ND	1	03/25/08	03/25/08	
Sulfate	EPA 300.0	8C25049	0.20	0.50	**3.3**	1	03/25/08	03/25/08	
Sample ID: IRC1931-05 (TMW_07_WG20080325_01 - Water)									
Reporting Units: mg/l									
Alkalinity as CaCO3	EPA 310.1	8C28056	2.0	2.0	**350**	1	03/28/08	03/28/08	
Chloride	EPA 300.0	8C25049	5.0	10	**240**	20	03/25/08	03/26/08	MHA
Nitrate-NO3	EPA 300.0	8C25049	5.0	10	**42**	20	03/25/08	03/26/08	
Nitrite-NO2	EPA 300.0	8C25049	0.30	0.50	ND	1	03/25/08	03/25/08	
Sulfate	EPA 300.0	8C25049	4.0	10	**100**	20	03/25/08	03/26/08	
Total Dissolved Solids	EPA 160.1	8C28077	10	10	**950**	1	03/28/08	03/28/08	
Sample ID: IRC1931-06 (AW0067UB_WG20080325_01 - Water)									
Reporting Units: mg/l									
Alkalinity as CaCO3	EPA 310.1	8C28056	2.0	2.0	**1400**	1	03/28/08	03/28/08	
Chloride	EPA 300.0	8C25049	25	50	**500**	100	03/25/08	03/25/08	
Nitrate-NO3	EPA 300.0	8C25049	1.2	2.5	ND	5	03/25/08	03/25/08	RL1
Nitrite-NO2	EPA 300.0	8C25049	1.5	2.5	ND	5	03/25/08	03/25/08	RL1
Sulfate	EPA 300.0	8C25049	1.0	2.5	**29**	5	03/25/08	03/25/08	
Total Dissolved Solids	EPA 160.1	8C28077	10	10	**3900**	1	03/28/08	03/28/08	

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Avocet Environmental Inc.
16 Technology Drive, Suite 154
Irvine, CA 92618
Attention: Michael Rendina

Project ID: Boeing C-6 Torrance (02/26/08)
1155.006
Report Number: IRC1931

Sampled: 03/25/08
Received: 03/25/08

INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRC1931-07 (AW0066UB_WG20080325_01 - Water)									
Reporting Units: mg/l									
Alkalinity as CaCO3	EPA 310.1	8C28056	2.0	2.0	**1600**	1	03/28/08	03/28/08	
Chloride	EPA 300.0	8C25049	25	50	**600**	100	03/25/08	03/25/08	
Nitrate-NO3	EPA 300.0	8C25049	1.2	2.5	ND	5	03/25/08	03/25/08	RL1
Nitrite-NO2	EPA 300.0	8C25049	1.5	2.5	ND	5	03/25/08	03/25/08	RL1
Sulfate	EPA 300.0	8C25049	1.0	2.5	**37**	5	03/25/08	03/25/08	
Sample ID: IRC1931-08 (AW0055UB_WG20080325_01 - Water)									
Reporting Units: mg/l									
Alkalinity as CaCO3	EPA 310.1	8C28056	2.0	2.0	**570**	1	03/28/08	03/28/08	
Chloride	EPA 300.0	8C25049	12	25	**670**	50	03/25/08	03/25/08	
Nitrate-NO3	EPA 300.0	8C25049	0.25	0.50	ND	1	03/25/08	03/25/08	
Nitrite-NO2	EPA 300.0	8C25049	0.30	0.50	ND	1	03/25/08	03/25/08	
Sulfate	EPA 300.0	8C25049	0.20	0.50	**28**	1	03/25/08	03/25/08	
Total Dissolved Solids	EPA 160.1	8C28077	10	10	**1900**	1	03/28/08	03/28/08	
Sample ID: IRC1931-09 (AW0077UB_WG20080325_01 - Water)									
Reporting Units: mg/l									
Alkalinity as CaCO3	EPA 310.1	8C28056	2.0	2.0	**620**	1	03/28/08	03/28/08	
Chloride	EPA 300.0	8C25049	12	25	**500**	50	03/25/08	03/25/08	
Nitrate-NO3	EPA 300.0	8C25049	0.25	0.50	ND	1	03/25/08	03/25/08	
Nitrite-NO2	EPA 300.0	8C25049	0.30	0.50	ND	1	03/25/08	03/25/08	
Sulfate	EPA 300.0	8C25049	0.20	0.50	ND	1	03/25/08	03/25/08	
Sample ID: IRC1931-10 (AW0073C_WG20080325_01 - Water)									
Reporting Units: mg/l									
Alkalinity as CaCO3	EPA 310.1	8C28056	2.0	2.0	**250**	1	03/28/08	03/28/08	
Chloride	EPA 300.0	8C25049	5.0	10	**130**	20	03/25/08	03/25/08	
Nitrate-NO3	EPA 300.0	8C25049	0.25	0.50	ND	1	03/25/08	03/25/08	
Nitrite-NO2	EPA 300.0	8C25049	0.30	0.50	ND	1	03/25/08	03/25/08	
Sulfate	EPA 300.0	8C25049	0.20	0.50	**7.4**	1	03/25/08	03/25/08	
Sample ID: IRC1931-11 (WCC_12S_WG20080325_01 - Water)									
Reporting Units: mg/l									
Alkalinity as CaCO3	EPA 310.1	8C28056	2.0	2.0	**180**	1	03/28/08	03/28/08	
Chloride	EPA 300.0	8C25049	5.0	10	**220**	20	03/25/08	03/26/08	
Nitrate-NO3	EPA 300.0	8C25049	0.25	0.50	**19**	1	03/25/08	03/26/08	
Nitrite-NO2	EPA 300.0	8C25049	0.30	0.50	ND	1	03/25/08	03/26/08	
Sulfate	EPA 300.0	8C25049	4.0	10	**410**	20	03/25/08	03/26/08	
Total Dissolved Solids	EPA 160.1	8C28077	10	10	**1200**	1	03/28/08	03/28/08	

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BOE-C6-0188393

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Avocet Environmental Inc.
16 Technology Drive, Suite 154
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Attention: Michael Rendina

Project ID: Boeing C-6 Torrance (02/26/08)
1155.006
Report Number: IRC1931

Sampled: 03/25/08
Received: 03/25/08

TOTAL ORGANIC CARBON (EPA 9060A MOD.)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRC1931-02 (AW0076UB_WG20080325_01 - Water)									
Reporting Units: mg/l									
Total Organic Carbon	EPA 9060A MOD.	8C31104	50	100	**480**	100	03/31/08	03/31/08	
Sample ID: IRC1931-03 (EWB002_WG20080325_01 - Water)									
Reporting Units: mg/l									
Total Organic Carbon	EPA 9060A MOD.	8C31104	5.0	10	**200**	10	03/31/08	03/31/08	
Sample ID: IRC1931-04 (AW0075UB_WG20080325_01 - Water)									
Reporting Units: mg/l									
Total Organic Carbon	EPA 9060A MOD.	8C31104	5.0	10	**210**	10	03/31/08	03/31/08	
Sample ID: IRC1931-05 (TMW_07_WG20080325_01 - Water)									
Reporting Units: mg/l									
Total Organic Carbon	EPA 9060A MOD.	8C31104	0.50	1.0	ND	1	03/31/08	03/31/08	
Sample ID: IRC1931-06 (AW0067UB_WG20080325_01 - Water)									
Reporting Units: mg/l									
Total Organic Carbon	EPA 9060A MOD.	8C31104	50	100	**2200**	100	03/31/08	03/31/08	
Sample ID: IRC1931-07 (AW0066UB_WG20080325_01 - Water)									
Reporting Units: mg/l									
Total Organic Carbon	EPA 9060A MOD.	8C31104	50	100	**3300**	100	03/31/08	03/31/08	
Sample ID: IRC1931-08 (AW0055UB_WG20080325_01 - Water)									
Reporting Units: mg/l									
Total Organic Carbon	EPA 9060A MOD.	8C31104	0.50	1.0	**3.6**	1	03/31/08	03/31/08	
Sample ID: IRC1931-09 (AW0077UB_WG20080325_01 - Water)									
Reporting Units: mg/l									
Total Organic Carbon	EPA 9060A MOD.	8C31104	2.5	5.0	**150**	5	03/31/08	03/31/08	
Sample ID: IRC1931-10 (AW0073C_WG20080325_01 - Water)									
Reporting Units: mg/l									
Total Organic Carbon	EPA 9060A MOD.	8C31104	2.5	5.0	**29**	5	03/31/08	03/31/08	
Sample ID: IRC1931-11 (WCC_12S_WG20080325_01 - Water)									
Reporting Units: mg/l									
Total Organic Carbon	EPA 9060A MOD.	8C31104	0.50	1.0	**1.4**	1	03/31/08	03/31/08	

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Project ID: Boeing C-6 Torrance (02/26/08)
1155.006
Report Number: IRC1931

Sampled: 03/25/08
Received: 03/25/08

qPCR TaqMan assay

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRC1931-02 (AW0076UB_WG20080325_01 - Water)									
Reporting Units: gene copies/L ground									
16s rRNA DHC sp.	qPCR TaqMan assay	1	0.2	50	**4.30E+08**	1	03/27/08	04/02/08	
bvcA	qPCR TaqMan assay	1	0.2	50	**8.5E+07**	1	03/27/08	04/03/08	
tceA	qPCR TaqMan assay	1	0.2	50	**3.46E+07**	1	03/27/08	04/03/08	
vcrA	qPCR TaqMan assay	1	0.2	50	ND	1	03/27/08	04/03/08	
Sample ID: IRC1931-03 (EWB002_WG20080325_01 - Water)									
Reporting Units: gene copies/L ground									
16s rRNA DHC sp.	qPCR TaqMan assay	1	0.2	50	**1.13E+09**	1	03/27/08	04/02/08	
bvcA	qPCR TaqMan assay	1	0.2	50	**4.7E+06**	1	03/27/08	04/03/08	
tceA	qPCR TaqMan assay	1	0.2	50	**1.18E+09**	1	03/27/08	04/03/08	
vcrA	qPCR TaqMan assay	1	0.2	50	ND	1	03/27/08	04/03/08	
Sample ID: IRC1931-04 (AW0075UB_WG20080325_01 - Water)									
Reporting Units: gene copies/L ground									
16s rRNA DHC sp.	qPCR TaqMan assay	1	0.2	50	**2.95E+08**	1	03/27/08	04/02/08	
bvcA	qPCR TaqMan assay	1	0.2	50	**4.2E+07**	1	03/27/08	04/03/08	
tceA	qPCR TaqMan assay	1	0.2	50	**3.37E+06**	1	03/27/08	04/03/08	
vcrA	qPCR TaqMan assay	1	0.2	50	ND	1	03/27/08	04/03/08	
Sample ID: IRC1931-09 (AW0077UB_WG20080325_01 - Water)									
Reporting Units: gene copies/L ground									
16s rRNA DHC sp.	qPCR TaqMan assay	1	0.2	50	**1.74E+09**	1	03/27/08	04/02/08	
bvcA	qPCR TaqMan assay	1	0.2	50	**1.8E+08**	1	03/27/08	04/03/08	
tceA	qPCR TaqMan assay	1	0.2	50	**7.25E+03**	1	03/27/08	04/03/08	
vcrA	qPCR TaqMan assay	1	0.2	50	ND	1	03/27/08	04/03/08	
Sample ID: IRC1931-10 (AW0073C_WG20080325_01 - Water)									
Reporting Units: gene copies/L ground									
16s rRNA DHC sp.	qPCR TaqMan assay	1	0.2	50	**1.26E+08**	1	03/27/08	04/02/08	
bvcA	qPCR TaqMan assay	1	0.2	50	**1.7E+07**	1	03/27/08	04/03/08	
tceA	qPCR TaqMan assay	1	0.2	50	**2.83E+04**	1	03/27/08	04/03/08	
vcrA	qPCR TaqMan assay	1	0.2	50	ND	1	03/27/08	04/03/08	

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Project ID: Boeing C-6 Torrance (02/26/08)
1155.006
Report Number: IRC1931

Sampled: 03/25/08
Received: 03/25/08

Universal Bacterial PCR

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRC1931-02 (AW0076UB_WG20080325_01 - Water)									
Reporting Units: NONE									
16s rRNA	Universal Bacterial PCR	1	N/A	NA	+	1	03/27/08	04/01/08	
Sample ID: IRC1931-03 (EWB002_WG20080325_01 - Water)									
Reporting Units: NONE									
16s rRNA	Universal Bacterial PCR	1	N/A	NA	+	1	03/27/08	04/01/08	
Sample ID: IRC1931-04 (AW0075UB_WG20080325_01 - Water)									
Reporting Units: NONE									
16s rRNA	Universal Bacterial PCR	1	N/A	NA	+	1	03/27/08	04/01/08	
Sample ID: IRC1931-09 (AW0077UB_WG20080325_01 - Water)									
Reporting Units: NONE									
16s rRNA	Universal Bacterial PCR	1	N/A	NA	+	1	03/27/08	04/01/08	
Sample ID: IRC1931-10 (AW0073C_WG20080325_01 - Water)									
Reporting Units: NONE									
16s rRNA	Universal Bacterial PCR	1	N/A	NA	+	1	03/27/08	04/01/08	

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Project ID: Boeing C-6 Torrance (02/26/08)
1155.006
Report Number: IRC1931

Sampled: 03/25/08
Received: 03/25/08

Volatile Fatty Acids

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRC1931-02 (AW0076UB_WG20080325_01 - Water)									
Reporting Units: MG/L									
ACETIC ACID	AM23G	M080409021	4.1	7	**360**	100	04/07/08	04/07/08	
BUTYRIC ACID	AM23G	M080409020	0.59	0.7	**58**	10	04/07/08	04/07/08	
HEXANOIC ACID	AM23G	M080404009	0.08	0.1	**0.34**	1	04/04/08	04/05/08	M
I-HEXANOIC ACID	AM23G	M080404009	0.08	0.1	**0.33**	1	04/04/08	04/05/08	
I-PENTANOIC ACID	AM23G	M080409020	0.7	0.7	**4.8**	10	04/07/08	04/07/08	
LACTIC ACID AND HIBA	AM23G	M080409021	6.7	10	**10**	100	04/07/08	04/07/08	U
PENTANOIC ACID	AM23G	M080404009	0.07	0.07	**2.8**	1	04/04/08	04/05/08	
PROPIONIC ACID	AM23G	M080409021	5.2	7	**90**	100	04/07/08	04/07/08	
PYRUVIC ACID	AM23G	M080409020	0.67	0.7	**5.4**	10	04/07/08	04/07/08	
Sample ID: IRC1931-03 (EWB002_WG20080325_01 - Water)									
Reporting Units: MG/L									
ACETIC ACID	AM23G	M080409021	4.1	7	**200**	100	04/07/08	04/08/08	
BUTYRIC ACID	AM23G	M080409020	0.59	0.7	**6.8**	10	04/07/08	04/08/08	
HEXANOIC ACID	AM23G	M080404009	0.08	0.1	**0.27**	1	04/04/08	04/05/08	M
I-HEXANOIC ACID	AM23G	M080404009	0.08	0.1	**0.1**	1	04/04/08	04/05/08	U
I-PENTANOIC ACID	AM23G	M080409020	0.7	0.7	**5.4**	10	04/07/08	04/08/08	
LACTIC ACID AND HIBA	AM23G	M080409021	6.7	10	**10**	100	04/07/08	04/08/08	U
PENTANOIC ACID	AM23G	M080404009	0.07	0.07	**2.5**	1	04/04/08	04/05/08	
PROPIONIC ACID	AM23G	M080409020	0.52	0.7	**64**	10	04/07/08	04/08/08	
PYRUVIC ACID	AM23G	M080409020	0.67	0.7	**4.2**	10	04/07/08	04/08/08	
Sample ID: IRC1931-04 (AW0075UB_WG20080325_01 - Water)									
Reporting Units: MG/L									
ACETIC ACID	AM23G	M080409021	4.1	7	**180**	100	04/07/08	04/08/08	
BUTYRIC ACID	AM23G	M080409020	0.59	0.7	**4.9**	10	04/07/08	04/08/08	
HEXANOIC ACID	AM23G	M080404009	0.08	0.1	**0.1**	1	04/04/08	04/05/08	UM
I-HEXANOIC ACID	AM23G	M080404009	0.08	0.1	**0.1**	1	04/04/08	04/05/08	U
I-PENTANOIC ACID	AM23G	M080404009	0.07	0.07	**1.8**	1	04/04/08	04/05/08	M
LACTIC ACID AND HIBA	AM23G	M080409021	6.7	10	**10**	100	04/07/08	04/08/08	U
PENTANOIC ACID	AM23G	M080404009	0.07	0.07	**0.45**	1	04/04/08	04/05/08	
PROPIONIC ACID	AM23G	M080409020	0.52	0.7	**38**	10	04/07/08	04/08/08	
PYRUVIC ACID	AM23G	M080404009	0.07	0.07	**1.7**	1	04/04/08	04/05/08	M

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BOE-C6-0188395

Avocet Environmental Inc.
16 Technology Drive, Suite 154
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Attention: Michael Rendina

Project ID: Boeing C-6 Torrance (02/26/08)
1155.006
Report Number: IRC1931

Sampled: 03/25/08
Received: 03/25/08

Volatile Fatty Acids

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRC1931-05 (TMW_07_WG20080325_01 - Water)									
Reporting Units: MG/L									
ACETIC ACID	AM23G	M080404009	0.04	0.07	**0.64**	1	04/04/08	04/07/08	M
BUTYRIC ACID	AM23G	M080404009	0.06	0.07	**0.07**	1	04/04/08	04/07/08	UM
HEXANOIC ACID	AM23G	M080404009	0.08	0.1	**0.1**	1	04/04/08	04/07/08	UM
I-HEXANOIC ACID	AM23G	M080404009	0.08	0.1	**0.1**	1	04/04/08	04/07/08	U
I-PENTANOIC ACID	AM23G	M080404009	0.07	0.07	**0.07**	1	04/04/08	04/07/08	UM
LACTIC ACID AND HIBA	AM23G	M080404009	0.07	0.1	**0.1**	1	04/04/08	04/07/08	UM
PENTANOIC ACID	AM23G	M080404009	0.07	0.07	**0.07**	1	04/04/08	04/07/08	U
PROPIONIC ACID	AM23G	M080404009	0.05	0.07	**0.07**	1	04/04/08	04/07/08	UM
PYRUVIC ACID	AM23G	M080404009	0.07	0.07	**0.25**	1	04/04/08	04/07/08	M
Sample ID: IRC1931-06 (AW0067UB_WG20080325_01 - Water)									
Reporting Units: MG/L									
ACETIC ACID	AM23G	M080409023	41	70	**1200**	1000	04/07/08	04/08/08	
BUTYRIC ACID	AM23G	M080409023	59	70	**740**	1000	04/07/08	04/08/08	
HEXANOIC ACID	AM23G	M080409020	0.78	1	**72**	10	04/07/08	04/08/08	
I-HEXANOIC ACID	AM23G	M080404009	0.08	0.1	**2.3**	1	04/04/08	04/05/08	
I-PENTANOIC ACID	AM23G	M080409021	7	7	**230**	100	04/07/08	04/08/08	
LACTIC ACID AND HIBA	AM23G	M080409023	67	100	**70**	1000	04/07/08	04/08/08	Ja
PENTANOIC ACID	AM23G	M080409020	0.7	0.7	**78**	10	04/07/08	04/08/08	
PROPIONIC ACID	AM23G	M080409023	52	70	**420**	1000	04/07/08	04/08/08	
PYRUVIC ACID	AM23G	M080409021	6.7	7	**130**	100	04/07/08	04/08/08	
Sample ID: IRC1931-07 (AW0066UB_WG20080325_01 - Water)									
Reporting Units: MG/L									
ACETIC ACID	AM23G	M080409021	4.1	7	**440**	100	04/08/08	04/08/08	
BUTYRIC ACID	AM23G	M080409025	590	700	**1900**	10000	04/08/08	04/08/08	
HEXANOIC ACID	AM23G	M080409021	7.8	10	**680**	100	04/08/08	04/08/08	
I-HEXANOIC ACID	AM23G	M080404009	0.08	0.1	**1.5**	1	04/04/08	04/05/08	
I-PENTANOIC ACID	AM23G	M080409021	7	7	**270**	100	04/08/08	04/08/08	
LACTIC ACID AND HIBA	AM23G	M080409021	6.7	10	**10**	100	04/08/08	04/08/08	U
PENTANOIC ACID	AM23G	M080409021	7	7	**240**	100	04/08/08	04/08/08	
PROPIONIC ACID	AM23G	M080409021	5.2	7	**78**	100	04/08/08	04/08/08	
PYRUVIC ACID	AM23G	M080409021	6.7	7	**190**	100	04/08/08	04/08/08	

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Avocet Environmental Inc.
16 Technology Drive, Suite 154
Irvine, CA 92618
Attention: Michael Rendina

Project ID: Boeing C-6 Torrance (02/26/08)
1155.006
Report Number: IRC1931

Sampled: 03/25/08
Received: 03/25/08

Volatile Fatty Acids

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRC1931-08 (AW0055UB_WG20080325_01 - Water)									
Reporting Units: MG/L									
ACETIC ACID	AM23G	M080404009	0.04	0.07	**1.5**	1	04/04/08	04/07/08	M
BUTYRIC ACID	AM23G	M080404009	0.06	0.07	**0.07**	1	04/04/08	04/07/08	UM
HEXANOIC ACID	AM23G	M080404009	0.08	0.1	**0.1**	1	04/04/08	04/07/08	UM
I-HEXANOIC ACID	AM23G	M080404009	0.08	0.1	**0.1**	1	04/04/08	04/07/08	U
I-PENTANOIC ACID	AM23G	M080404009	0.07	0.07	**0.07**	1	04/04/08	04/07/08	UM
LACTIC ACID AND HIBA	AM23G	M080404009	0.07	0.1	**0.1**	1	04/04/08	04/07/08	UM
PENTANOIC ACID	AM23G	M080404009	0.07	0.07	**0.07**	1	04/04/08	04/07/08	U
PROPIONIC ACID	AM23G	M080404009	0.05	0.07	**0.24**	1	04/04/08	04/07/08	M
PYRUVIC ACID	AM23G	M080404009	0.07	0.07	**0.07**	1	04/04/08	04/07/08	UM
Sample ID: IRC1931-09 (AW0077UB_WG20080325_01 - Water)									
Reporting Units: MG/L									
ACETIC ACID	AM23G	M080409021	4.1	7	**190**	100	04/08/08	04/08/08	
BUTYRIC ACID	AM23G	M080409020	0.59	0.7	**4.3**	10	04/08/08	04/08/08	
HEXANOIC ACID	AM23G	M080404009	0.08	0.1	**0.87**	1	04/04/08	04/05/08	M
I-HEXANOIC ACID	AM23G	M080404009	0.08	0.1	**0.1**	1	04/04/08	04/05/08	U
I-PENTANOIC ACID	AM23G	M080404009	0.07	0.07	**1.3**	1	04/04/08	04/05/08	M
LACTIC ACID AND HIBA	AM23G	M080409021	6.7	10	**10**	100	04/08/08	04/08/08	U
PENTANOIC ACID	AM23G	M080404009	0.07	0.07	**0.38**	1	04/04/08	04/05/08	
PROPIONIC ACID	AM23G	M080409020	0.52	0.7	**21**	10	04/08/08	04/08/08	
PYRUVIC ACID	AM23G	M080404009	0.07	0.07	**1.6**	1	04/04/08	04/05/08	M
Sample ID: IRC1931-10 (AW0073C_WG20080325_01 - Water)									
Reporting Units: MG/L									
ACETIC ACID	AM23G	M080409020	0.41	0.7	**35**	10	04/08/08	04/08/08	
BUTYRIC ACID	AM23G	M080404009	0.06	0.07	**0.07**	1	04/04/08	04/05/08	UM
HEXANOIC ACID	AM23G	M080404009	0.08	0.1	**0.12**	1	04/04/08	04/05/08	M
I-HEXANOIC ACID	AM23G	M080404009	0.08	0.1	**0.1**	1	04/04/08	04/05/08	U
I-PENTANOIC ACID	AM23G	M080404009	0.07	0.07	**0.07**	1	04/04/08	04/05/08	UM
LACTIC ACID AND HIBA	AM23G	M080409020	0.67	1	**1**	10	04/08/08	04/08/08	U
PENTANOIC ACID	AM23G	M080404009	0.07	0.07	**0.07**	1	04/04/08	04/05/08	U
PROPIONIC ACID	AM23G	M080409020	0.52	0.7	**1.6**	10	04/08/08	04/08/08	
PYRUVIC ACID	AM23G	M080404009	0.07	0.07	**0.07**	1	04/04/08	04/05/08	UM

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BOE-C6-0188396

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Project ID: Boeing C-6 Torrance (02/26/08)
1155.006
Report Number: IRC1931

Sampled: 03/25/08
Received: 03/25/08

Volatile Fatty Acids

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRC1931-11 (WCC_12S_WG20080325_01 - Water)									
Reporting Units: MG/L									
ACETIC ACID	AM23G	M080404009	0.04	0.07	**0.1**	1	04/04/08	04/07/08	M
BUTYRIC ACID	AM23G	M080404009	0.06	0.07	**0.07**	1	04/04/08	04/07/08	UM
HEXANOIC ACID	AM23G	M080404009	0.08	0.1	**0.1**	1	04/04/08	04/07/08	UM
I-HEXANOIC ACID	AM23G	M080404009	0.08	0.1	**0.1**	1	04/04/08	04/07/08	U
I-PENTANOIC ACID	AM23G	M080404009	0.07	0.07	**0.07**	1	04/04/08	04/07/08	UM
LACTIC ACID AND HIBA	AM23G	M080404009	0.07	0.1	**0.1**	1	04/04/08	04/07/08	UM
PENTANOIC ACID	AM23G	M080404009	0.07	0.07	**0.07**	1	04/04/08	04/07/08	U
PROPIONIC ACID	AM23G	M080404009	0.05	0.07	**0.07**	1	04/04/08	04/07/08	UM
PYRUVIC ACID	AM23G	M080404009	0.07	0.07	**0.11**	1	04/04/08	04/07/08	M

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Project ID: Boeing C-6 Torrance (02/26/08)
1155.006
Report Number: IRC1931

Sampled: 03/25/08
Received: 03/25/08

RSK175 Dissolved Gases in Water

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRC1931-02 (AW0076UB_WG20080325_01 - Water)									
Reporting Units: ug/L									
Methane	RSK-175	080402GC8A	0.39	1.0	**550**	1	04/02/08	04/02/08	
Ethane	RSK-175	080402GC8A	0.50	1.0	ND	1	04/02/08	04/02/08	
Ethylene	RSK-175	080402GC8A	0.33	1.0	**85**	1	04/02/08	04/02/08	
Sample ID: IRC1931-03 (EWB002_WG20080325_01 - Water)									
Reporting Units: ug/L									
Methane	RSK-175	080402GC8A	0.39	1.0	**3,500**	1	04/02/08	04/02/08	
Ethane	RSK-175	080402GC8A	0.50	1.0	ND	1	04/02/08	04/02/08	
Ethylene	RSK-175	080402GC8A	0.33	1.0	**39**	1	04/02/08	04/02/08	
Sample ID: IRC1931-04 (AW0075UB_WG20080325_01 - Water)									
Reporting Units: ug/L									
Methane	RSK-175	080402GC8A	0.39	1.0	**3.9**	1	04/02/08	04/02/08	
Ethane	RSK-175	080402GC8A	0.50	1.0	ND	1	04/02/08	04/02/08	
Ethylene	RSK-175	080402GC8A	0.33	1.0	**5.3**	1	04/02/08	04/02/08	
Sample ID: IRC1931-05 (TMW_07_WG20080325_01 - Water)									
Reporting Units: ug/L									
Methane	RSK-175	080402GC8A	0.39	1.0	**0.47**	1	04/02/08	04/02/08	J
Ethane	RSK-175	080402GC8A	0.50	1.0	ND	1	04/02/08	04/02/08	
Ethylene	RSK-175	080402GC8A	0.33	1.0	**0.41**	1	04/02/08	04/02/08	J
Sample ID: IRC1931-06 (AW0067UB_WG20080325_01 - Water)									
Reporting Units: ug/L									
Methane	RSK-175	080402GC8A	0.39	1.0	**3,600**	1	04/02/08	04/02/08	
Ethane	RSK-175	080402GC8A	0.50	1.0	ND	1	04/02/08	04/02/08	
Ethylene	RSK-175	080402GC8A	0.33	1.0	**0.45**	1	04/02/08	04/02/08	J
Sample ID: IRC1931-07 (AW0066UB_WG20080325_01 - Water)									
Reporting Units: ug/L									
Methane	RSK-175	080402GC8A	0.39	1.0	**5,700**	1	04/02/08	04/02/08	
Ethane	RSK-175	080402GC8A	0.50	1.0	**0.73**	1	04/02/08	04/02/08	J
Ethylene	RSK-175	080402GC8A	0.33	1.0	**0.53**	1	04/02/08	04/02/08	J
Sample ID: IRC1931-08 (AW0055UB_WG20080325_01 - Water)									
Reporting Units: ug/L									
Methane	RSK-175	080402GC8A	0.39	1.0	**2.8**	1	04/02/08	04/02/08	
Ethane	RSK-175	080402GC8A	0.50	1.0	ND	1	04/02/08	04/02/08	
Ethylene	RSK-175	080402GC8A	0.33	1.0	**1.8**	1	04/02/08	04/02/08	

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BOE-C6-0188397

Avocet Environmental Inc.
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Attention: Michael Rendina

Project ID: Boeing C-6 Torrance (02/26/08)
1155.006
Report Number: IRC1931

Sampled: 03/25/08
Received: 03/25/08

RSK175 Dissolved Gases in Water

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRC1931-09 (AW0077UB_WG20080325_01 - Water)									
Reporting Units: ug/L									
Methane	RSK-175	080402GC8A	0.39	1.0	**5,000**	1	04/02/08	04/02/08	
Ethane	RSK-175	080402GC8A	0.50	1.0	ND	1	04/02/08	04/02/08	
Ethylene	RSK-175	080402GC8A	0.33	1.0	**270**	1	04/02/08	04/02/08	
Sample ID: IRC1931-10 (AW0073C_WG20080325_01 - Water)									
Reporting Units: ug/L									
Methane	RSK-175	080402GC8A	0.39	1.0	**630**	1	04/02/08	04/02/08	
Ethane	RSK-175	080402GC8A	0.50	1.0	ND	1	04/02/08	04/02/08	
Ethylene	RSK-175	080402GC8A	0.33	1.0	**2.7**	1	04/02/08	04/02/08	
Sample ID: IRC1931-11 (WCC_12S_WG20080325_01 - Water)									
Reporting Units: ug/L									
Methane	RSK-175	080402GC8A	0.39	1.0	**1.2**	1	04/02/08	04/02/08	
Ethane	RSK-175	080402GC8A	0.50	1.0	ND	1	04/02/08	04/02/08	
Ethylene	RSK-175	080402GC8A	0.33	1.0	ND	1	04/02/08	04/02/08	

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Project ID: Boeing C-6 Torrance (02/26/08)
1155.006
Report Number: IRC1931

Sampled: 03/25/08
Received: 03/25/08

SHORT HOLD TIME DETAIL REPORT

	Hold Time (in days)	Date/Time Sampled	Date/Time Received	Date/Time Extracted	Date/Time Analyzed
Sample ID: AW0076UB_WG20080325_01 (IRC1931-02) - Water					
EPA 300.0	2	03/25/2008 07:50	03/25/2008 15:15	03/25/2008 16:00	03/25/2008 20:15
Sample ID: EWB002_WG20080325_01 (IRC1931-03) - Water					
EPA 300.0	2	03/25/2008 08:40	03/25/2008 15:15	03/25/2008 16:00	03/25/2008 20:29
Sample ID: AW0075UB_WG20080325_01 (IRC1931-04) - Water					
EPA 300.0	2	03/25/2008 09:23	03/25/2008 15:15	03/25/2008 16:00	03/25/2008 20:43
Sample ID: TMW_07_WG20080325_01 (IRC1931-05) - Water					
EPA 300.0	2	03/25/2008 09:24	03/25/2008 15:15	03/25/2008 16:00	03/26/2008 01:33
Nitrite-NO2				03/25/2008 16:00	03/25/2008 20:56
Sample ID: AW0067UB_WG20080325_01 (IRC1931-06) - Water					
EPA 300.0	2	03/25/2008 10:24	03/25/2008 15:15	03/25/2008 16:00	03/25/2008 21:40
Sample ID: AW0066UB_WG20080325_01 (IRC1931-07) - Water					
EPA 300.0	2	03/25/2008 11:20	03/25/2008 15:15	03/25/2008 16:00	03/25/2008 22:07
Sample ID: AW0055UB_WG20080325_01 (IRC1931-08) - Water					
EPA 300.0	2	03/25/2008 11:21	03/25/2008 15:15	03/25/2008 16:00	03/25/2008 22:35
Sample ID: AW0077UB_WG20080325_01 (IRC1931-09) - Water					
EPA 300.0	2	03/25/2008 11:56	03/25/2008 15:15	03/25/2008 16:00	03/25/2008 23:02
Sample ID: AW0073C_WG20080325_01 (IRC1931-10) - Water					
EPA 300.0	2	03/25/2008 12:30	03/25/2008 15:15	03/25/2008 16:00	03/25/2008 23:30
Sample ID: WCC_12S_WG20080325_01 (IRC1931-11) - Water					
EPA 300.0	2	03/25/2008 13:06	03/25/2008 15:15	03/25/2008 16:00	03/26/2008 00:24

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BOE-C6-0188398

Avocet Environmental Inc.
16 Technology Drive, Suite 154
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Attention: Michael Rendina

Project ID: Boeing C-6 Torrance (02/26/08)
1155.006
Report Number: IRC1931

Sampled: 03/25/08
Received: 03/25/08

METHOD BLANK/QC DATA

VOLATILE ORGANICS--GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8C27021 Extracted: 03/27/08											
Blank Analyzed: 03/27/2008 (8C27021-BLK1)											
Acrolein	ND	5.0	4.0	ug/l							
Acrylonitrile	ND	2.0	0.70	ug/l							
2-Chloroethyl vinyl ether	ND	5.0	1.8	ug/l							
Surrogate: Dibromofluoromethane	*23.4*			*ug/l*	*25.0*		*94*	*80-120*			
Surrogate: Toluene-d8	*23.5*			*ug/l*	*25.0*		*94*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*23.6*			*ug/l*	*25.0*		*94*	*80-120*			
LCS Analyzed: 03/27/2008 (8C27021-BS1)											
2-Chloroethyl vinyl ether	26.8	5.0	1.8	ug/l	25.0		107	25-170			
Surrogate: Dibromofluoromethane	*23.8*			*ug/l*	*25.0*		*95*	*80-120*			
Surrogate: Toluene-d8	*23.8*			*ug/l*	*25.0*		*95*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*26.2*			*ug/l*	*25.0*		*105*	*80-120*			
Matrix Spike Analyzed: 03/27/2008 (8C27021-MS1)					**Source: IRC2018-01**						**P, pH**
2-Chloroethyl vinyl ether	ND	5.0	1.8	ug/l	25.0	ND		25-170			*M13*
Surrogate: Dibromofluoromethane	*24.2*			*ug/l*	*25.0*		*97*	*80-120*			
Surrogate: Toluene-d8	*23.7*			*ug/l*	*25.0*		*95*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*26.2*			*ug/l*	*25.0*		*105*	*80-120*			
Matrix Spike Dup Analyzed: 03/27/2008 (8C27021-MSD1)					**Source: IRC2018-01**						**P, pH**
2-Chloroethyl vinyl ether	ND	5.0	1.8	ug/l	25.0	ND		25-170		25	*M13*
Surrogate: Dibromofluoromethane	*24.2*			*ug/l*	*25.0*		*97*	*80-120*			
Surrogate: Toluene-d8	*23.6*			*ug/l*	*25.0*		*94*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*25.4*			*ug/l*	*25.0*		*102*	*80-120*			
Batch: 8C29007 Extracted: 03/29/08											
Blank Analyzed: 03/29/2008 (8C29007-BLK1)											
Acrolein	ND	5.0	4.0	ug/l							
Acrylonitrile	ND	2.0	0.70	ug/l							
2-Chloroethyl vinyl ether	ND	5.0	1.8	ug/l							
Surrogate: Dibromofluoromethane	*23.3*			*ug/l*	*25.0*		*93*	*80-120*			
Surrogate: Toluene-d8	*23.3*			*ug/l*	*25.0*		*93*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*23.4*			*ug/l*	*25.0*		*94*	*80-120*			

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Project ID: Boeing C-6 Torrance (02/26/08)
1155.006
Report Number: IRC1931

Sampled: 03/25/08
Received: 03/25/08

METHOD BLANK/QC DATA

VOLATILE ORGANICS--GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8C29007 Extracted: 03/29/08											
LCS Analyzed: 03/29/2008 (8C29007-BS1)											
2-Chloroethyl vinyl ether	25.0	5.0	1.8	ug/l	25.0		100	25-170			
Surrogate: Dibromofluoromethane	*23.9*			*ug/l*	*25.0*		*96*	*80-120*			
Surrogate: Toluene-d8	*23.7*			*ug/l*	*25.0*		*95*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*25.8*			*ug/l*	*25.0*		*103*	*80-120*			
Matrix Spike Analyzed: 03/29/2008 (8C29007-MS1)						**Source: IRC2269-14**					
2-Chloroethyl vinyl ether	ND	5.0	1.8	ug/l	25.0	ND		25-170			*M13*
Surrogate: Dibromofluoromethane	*23.6*			*ug/l*	*25.0*		*94*	*80-120*			
Surrogate: Toluene-d8	*23.8*			*ug/l*	*25.0*		*95*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*26.0*			*ug/l*	*25.0*		*104*	*80-120*			
Matrix Spike Dup Analyzed: 03/29/2008 (8C29007-MSD1)						**Source: IRC2269-14**					
2-Chloroethyl vinyl ether	ND	5.0	1.8	ug/l	25.0	ND		25-170		25	*M13*
Surrogate: Dibromofluoromethane	*23.0*			*ug/l*	*25.0*		*92*	*80-120*			
Surrogate: Toluene-d8	*23.4*			*ug/l*	*25.0*		*94*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*25.5*			*ug/l*	*25.0*		*102*	*80-120*			
Batch: 8C31021 Extracted: 03/31/08											
Blank Analyzed: 03/31/2008 (8C31021-BLK1)											
Acrolein	ND	5.0	4.0	ug/l							
Acrylonitrile	ND	2.0	0.70	ug/l							
2-Chloroethyl vinyl ether	ND	5.0	1.8	ug/l							
Surrogate: Dibromofluoromethane	*26.0*			*ug/l*	*25.0*		*104*	*80-120*			
Surrogate: Toluene-d8	*23.6*			*ug/l*	*25.0*		*94*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*23.5*			*ug/l*	*25.0*		*94*	*80-120*			

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BOE-C6-0188399

Avocet Environmental Inc.
16 Technology Drive, Suite 154
Irvine, CA 92618
Attention: Michael Rendina

Project ID: Boeing C-6 Torrance (02/26/08)
1155.006
Report Number: IRC1931

Sampled: 03/25/08
Received: 03/25/08

METHOD BLANK/QC DATA

VOLATILE ORGANICS--GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8C31021 Extracted: 03/31/08											
LCS Analyzed: 03/31/2008 (8C31021-BS1)											
2-Chloroethyl vinyl ether	18.0	5.0	1.8	ug/l	25.0		72	25-170			
Surrogate: Dibromofluoromethane	*26.1*			*ug/l*	*25.0*		*104*	*80-120*			
Surrogate: Toluene-d8	*23.3*			*ug/l*	*25.0*		*93*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*25.9*			*ug/l*	*25.0*		*104*	*80-120*			
Matrix Spike Analyzed: 03/31/2008 (8C31021-MS1)						**Source: IRC2314-01**					
2-Chloroethyl vinyl ether	ND	5.0	1.8	ug/l	25.0	ND		25-170			*M13*
Surrogate: Dibromofluoromethane	*26.1*			*ug/l*	*25.0*		*104*	*80-120*			
Surrogate: Toluene-d8	*23.4*			*ug/l*	*25.0*		*94*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*26.0*			*ug/l*	*25.0*		*104*	*80-120*			
Matrix Spike Dup Analyzed: 03/31/2008 (8C31021-MSD1)						**Source: IRC2314-01**					
2-Chloroethyl vinyl ether	ND	5.0	1.8	ug/l	25.0	ND		25-170		25	*M13*
Surrogate: Dibromofluoromethane	*25.4*			*ug/l*	*25.0*		*102*	*80-120*			
Surrogate: Toluene-d8	*23.6*			*ug/l*	*25.0*		*94*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*25.4*			*ug/l*	*25.0*		*102*	*80-120*			

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Project ID: Boeing C-6 Torrance (02/26/08)
1155.006
Report Number: IRC1931

Sampled: 03/25/08
Received: 03/25/08

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8C27012 Extracted: 03/27/08											
Blank Analyzed: 03/27/2008 (8C27012-BLK1)											
Acetone	ND	10	4.5	ug/l							
tert-Amyl Methyl Ether (TAME)	ND	2.0	0.33	ug/l							
Benzene	ND	0.50	0.28	ug/l							
Bromobenzene	ND	1.0	0.27	ug/l							
Bromochloromethane	ND	1.0	0.40	ug/l							
Bromodichloromethane	ND	1.0	0.30	ug/l							
Bromoform	ND	1.0	0.40	ug/l							
Bromomethane	ND	1.0	0.42	ug/l							
tert-Butanol (TBA)	ND	25	6.5	ug/l							
2-Butanone (MEK)	ND	5.0	4.7	ug/l							
tert-Butylbenzene	ND	1.0	0.22	ug/l							
n-Butylbenzene	ND	1.0	0.37	ug/l							
sec-Butylbenzene	ND	1.0	0.25	ug/l							
Carbon Disulfide	ND	1.0	0.48	ug/l							
Carbon tetrachloride	ND	0.50	0.28	ug/l							
Chlorobenzene	ND	1.0	0.36	ug/l							
Chloroethane	ND	2.0	0.40	ug/l							
Chloroform	ND	1.0	0.33	ug/l							
Chloromethane	ND	2.0	0.40	ug/l							
2-Chlorotoluene	ND	1.0	0.28	ug/l							
4-Chlorotoluene	ND	1.0	0.29	ug/l							
1,2-Dibromo-3-chloropropane	ND	2.0	0.97	ug/l							
Dibromochloromethane	ND	1.0	0.40	ug/l							
1,2-Dibromoethane (EDB)	ND	1.0	0.40	ug/l							
1,3-Dichlorobenzene	ND	1.0	0.35	ug/l							
1,4-Dichlorobenzene	ND	1.0	0.37	ug/l							
1,2-Dichlorobenzene	ND	1.0	0.32	ug/l							
Dichlorodifluoromethane	ND	1.0	0.26	ug/l							
1,1-Dichloroethane	ND	1.0	0.40	ug/l							
1,2-Dichloroethane	ND	0.50	0.28	ug/l							
cis-1,2-Dichloroethene	ND	1.0	0.32	ug/l							
1,1-Dichloroethene	ND	1.0	0.42	ug/l							
trans-1,2-Dichloroethene	ND	1.0	0.30	ug/l							
2,2-Dichloropropane	ND	1.0	0.34	ug/l							
1,2-Dichloropropane	ND	1.0	0.35	ug/l							

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Project ID: Boeing C-6 Torrance (02/26/08)
1155.006
Report Number: IRC1931

Sampled: 03/25/08
Received: 03/25/08

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8C27012 Extracted: 03/27/08											
Blank Analyzed: 03/27/2008 (8C27012-BLK1)											
cis-1,3-Dichloropropene	ND	0.50	0.22	ug/l							
1,1-Dichloropropene	ND	1.0	0.28	ug/l							
trans-1,3-Dichloropropene	ND	0.50	0.32	ug/l							
Di-isopropyl Ether (DIPE)	ND	2.0	0.25	ug/l							
Ethylbenzene	ND	1.0	0.25	ug/l							
Ethyl tert-Butyl Ether (ETBE)	ND	2.0	0.28	ug/l							
Hexachlorobutadiene	ND	1.0	0.38	ug/l							
2-Hexanone	ND	6.0	2.6	ug/l							
Iodomethane	ND	2.0	1.0	ug/l							
Isopropylbenzene	ND	1.0	0.25	ug/l							
p-Isopropyltoluene	ND	1.0	0.28	ug/l							
Methyl-tert-butyl Ether (MTBE)	ND	1.0	0.32	ug/l							
Methylene chloride	ND	1.0	0.95	ug/l							
4-Methyl-2-pentanone (MIBK)	ND	5.0	3.5	ug/l							
n-Propylbenzene	ND	1.0	0.27	ug/l							
Styrene	ND	1.0	0.20	ug/l							
1,1,1,2-Tetrachloroethane	ND	1.0	0.27	ug/l							
1,1,2,2-Tetrachloroethane	ND	1.0	0.30	ug/l							
Tetrachloroethene	ND	1.0	0.32	ug/l							
Tetrahydrofuran (THF)	ND	10	3.5	ug/l							
Toluene	ND	1.0	0.36	ug/l							
1,2,3-Trichlorobenzene	ND	1.0	0.30	ug/l							
1,2,4-Trichlorobenzene	ND	1.0	0.48	ug/l							
1,1,1-Trichloroethane	ND	1.0	0.30	ug/l							
1,1,2-Trichloroethane	ND	1.0	0.30	ug/l							
Trichloroethene	ND	1.0	0.26	ug/l							
Trichlorofluoromethane	ND	2.0	0.34	ug/l							
1,2,3-Trichloropropane	ND	1.0	0.40	ug/l							
1,3,5-Trimethylbenzene	ND	1.0	0.26	ug/l							
1,2,4-Trimethylbenzene	ND	1.0	0.23	ug/l							
Vinyl acetate	ND	6.0	1.0	ug/l							
Vinyl chloride	ND	0.50	0.40	ug/l							
o-Xylene	ND	0.50	0.30	ug/l							
Xylenes, Total	ND	1.0	0.90	ug/l							
m,p-Xylenes	ND	1.0	0.60	ug/l							

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Project ID: Boeing C-6 Torrance (02/26/08)
1155.006
Report Number: IRC1931

Sampled: 03/25/08
Received: 03/25/08

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8C27012 Extracted: 03/27/08											
Blank Analyzed: 03/27/2008 (8C27012-BLK1)											
Surrogate: Dibromofluoromethane	*25.0*			*ug/l*	*25.0*		*100*	*80-120*			
Surrogate: Toluene-d8	*24.1*			*ug/l*	*25.0*		*96*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*23.8*			*ug/l*	*25.0*		*95*	*80-120*			
LCS Analyzed: 03/27/2008 (8C27012-BS1)											
Acetone	19.9	10	4.5	ug/l	25.0		79	30-140			
tert-Amyl Methyl Ether (TAME)	23.5	2.0	0.33	ug/l	25.0		94	60-135			
Benzene	24.8	0.50	0.28	ug/l	25.0		99	70-120			
Bromobenzene	27.2	1.0	0.27	ug/l	25.0		109	75-120			
Bromochloromethane	25.4	1.0	0.40	ug/l	25.0		102	70-130			
Bromodichloromethane	26.8	1.0	0.30	ug/l	25.0		107	70-135			
Bromoform	19.2	1.0	0.40	ug/l	25.0		77	55-130			
Bromomethane	27.6	1.0	0.42	ug/l	25.0		110	65-140			
tert-Butanol (TBA)	136	25	6.5	ug/l	125		109	70-135			
2-Butanone (MEK)	24.4	5.0	4.7	ug/l	25.0		98	40-140			
tert-Butylbenzene	26.0	1.0	0.22	ug/l	25.0		104	70-125			
n-Butylbenzene	24.9	1.0	0.37	ug/l	25.0		100	70-130			
sec-Butylbenzene	26.0	1.0	0.25	ug/l	25.0		104	70-125			
Carbon Disulfide	24.6	1.0	0.48	ug/l	25.0		98	50-130			
Carbon tetrachloride	23.5	0.50	0.28	ug/l	25.0		94	65-140			
Chlorobenzene	25.4	1.0	0.36	ug/l	25.0		102	75-120			
Chloroethane	26.7	2.0	0.40	ug/l	25.0		107	60-140			
Chloroform	26.6	1.0	0.33	ug/l	25.0		107	70-130			
Chloromethane	22.9	2.0	0.40	ug/l	25.0		92	50-140			
2-Chlorotoluene	27.1	1.0	0.28	ug/l	25.0		108	70-125			
4-Chlorotoluene	28.0	1.0	0.29	ug/l	25.0		112	75-125			
1,2-Dibromo-3-chloropropane	23.6	2.0	0.97	ug/l	25.0		95	50-135			
Dibromochloromethane	25.2	1.0	0.40	ug/l	25.0		101	70-140			
1,2-Dibromoethane (EDB)	24.1	1.0	0.40	ug/l	25.0		96	75-125			
1,3-Dichlorobenzene	26.9	1.0	0.35	ug/l	25.0		108	75-120			
1,4-Dichlorobenzene	23.2	1.0	0.37	ug/l	25.0		93	75-120			
1,2-Dichlorobenzene	27.2	1.0	0.32	ug/l	25.0		109	75-120			
Dichlorodifluoromethane	26.8	1.0	0.26	ug/l	25.0		107	35-155			
1,1-Dichloroethane	23.5	1.0	0.40	ug/l	25.0		94	70-125			
1,2-Dichloroethane	25.6	0.50	0.28	ug/l	25.0		102	60-140			
cis-1,2-Dichloroethene	24.6	1.0	0.32	ug/l	25.0		98	70-125			

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Project ID: Boeing C-6 Torrance (02/26/08)
1155.006
Report Number: IRC1931

Sampled: 03/25/08
Received: 03/25/08

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8C27012 Extracted: 03/27/08											
LCS Analyzed: 03/27/2008 (8C27012-BS1)											
1,1-Dichloroethene	21.0	1.0	0.42	ug/l	25.0		84	70-125			
trans-1,2-Dichloroethene	26.0	1.0	0.30	ug/l	25.0		104	70-125			
2,2-Dichloropropane	24.8	1.0	0.34	ug/l	25.0		99	65-140			
1,2-Dichloropropane	24.3	1.0	0.35	ug/l	25.0		97	70-125			
cis-1,3-Dichloropropene	23.1	0.50	0.22	ug/l	25.0		92	75-125			
1,1-Dichloropropene	25.7	1.0	0.28	ug/l	25.0		103	75-130			
trans-1,3-Dichloropropene	23.2	0.50	0.32	ug/l	25.0		93	70-125			
Di-isopropyl Ether (DIPE)	23.8	2.0	0.25	ug/l	25.0		95	60-135			
Ethylbenzene	25.9	1.0	0.25	ug/l	25.0		104	75-125			
Ethyl tert-Butyl Ether (ETBE)	23.2	2.0	0.28	ug/l	25.0		93	65-135			
Hexachlorobutadiene	25.9	1.0	0.38	ug/l	25.0		104	65-135			
2-Hexanone	20.3	6.0	2.6	ug/l	25.0		81	45-140			
Isopropylbenzene	30.2	1.0	0.25	ug/l	25.0		121	75-130			
p-Isopropyltoluene	25.1	1.0	0.28	ug/l	25.0		100	75-125			
Methyl-tert-butyl Ether (MTBE)	24.4	1.0	0.32	ug/l	25.0		98	60-135			
Methylene chloride	23.3	1.0	0.95	ug/l	25.0		93	55-130			
4-Methyl-2-pentanone (MIBK)	22.4	5.0	3.5	ug/l	25.0		90	45-140			
n-Propylbenzene	26.9	1.0	0.27	ug/l	25.0		107	75-130			
Styrene	25.5	1.0	0.20	ug/l	25.0		102	75-130			
1,1,1,2-Tetrachloroethane	23.5	1.0	0.27	ug/l	25.0		94	70-130			
1,1,2,2-Tetrachloroethane	24.7	1.0	0.30	ug/l	25.0		99	55-130			
Tetrachloroethene	25.1	1.0	0.32	ug/l	25.0		100	70-125			
Toluene	25.6	1.0	0.36	ug/l	25.0		102	70-120			
1,2,3-Trichlorobenzene	25.3	1.0	0.30	ug/l	25.0		101	65-125			
1,2,4-Trichlorobenzene	26.2	1.0	0.48	ug/l	25.0		105	70-135			
1,1,1-Trichloroethane	25.6	1.0	0.30	ug/l	25.0		102	65-135			
1,1,2-Trichloroethane	25.4	1.0	0.30	ug/l	25.0		101	70-125			
Trichloroethene	25.6	1.0	0.26	ug/l	25.0		103	70-125			
Trichlorofluoromethane	31.5	2.0	0.34	ug/l	25.0		126	65-145			
1,2,3-Trichloropropane	23.8	1.0	0.40	ug/l	25.0		95	60-130			
1,3,5-Trimethylbenzene	27.1	1.0	0.26	ug/l	25.0		109	75-125			
1,2,4-Trimethylbenzene	26.0	1.0	0.23	ug/l	25.0		104	75-125			
Vinyl acetate	20.2	6.0	1.0	ug/l	25.0		81	45-145			
Vinyl chloride	21.6	0.50	0.40	ug/l	25.0		87	55-135			
o-Xylene	24.5	0.50	0.30	ug/l	25.0		98	75-125			

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Project ID: Boeing C-6 Torrance (02/26/08)
1155.006
Report Number: IRC1931

Sampled: 03/25/08
Received: 03/25/08

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8C27012 Extracted: 03/27/08											
LCS Analyzed: 03/27/2008 (8C27012-BS1)											
m,p-Xylenes	51.5	1.0	0.60	ug/l	50.0		103	75-125			
Surrogate: Dibromofluoromethane	*24.1*			*ug/l*	*25.0*		*96*	*80-120*			
Surrogate: Toluene-d8	*24.8*			*ug/l*	*25.0*		*99*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*23.0*			*ug/l*	*25.0*		*92*	*80-120*			
Matrix Spike Analyzed: 03/27/2008 (8C27012-MS1)						**Source: IRC2086-03**					
Acetone	31.6	10	4.5	ug/l	25.0	13.3	73	20-150			
tert-Amyl Methyl Ether (TAME)	24.1	2.0	0.33	ug/l	25.0	ND	96	60-140			
Benzene	24.2	0.50	0.28	ug/l	25.0	ND	97	65-125			
Bromobenzene	24.6	1.0	0.27	ug/l	25.0	ND	98	70-125			
Bromochloromethane	24.8	1.0	0.40	ug/l	25.0	ND	99	65-135			
Bromodichloromethane	27.2	1.0	0.30	ug/l	25.0	ND	109	70-135			
Bromoform	19.5	1.0	0.40	ug/l	25.0	ND	78	55-135			
Bromomethane	26.5	1.0	0.42	ug/l	25.0	ND	106	55-145			
tert-Butanol (TBA)	128	25	6.5	ug/l	125	ND	102	65-140			
2-Butanone (MEK)	26.2	5.0	4.7	ug/l	25.0	ND	105	30-145			
tert-Butylbenzene	24.1	1.0	0.22	ug/l	25.0	ND	96	65-130			
n-Butylbenzene	22.7	1.0	0.37	ug/l	25.0	ND	91	65-135			
sec-Butylbenzene	23.3	1.0	0.25	ug/l	25.0	ND	93	70-125			
Carbon Disulfide	24.0	1.0	0.48	ug/l	25.0	ND	96	40-140			
Carbon tetrachloride	23.2	0.50	0.28	ug/l	25.0	ND	93	65-140			
Chlorobenzene	24.2	1.0	0.36	ug/l	25.0	ND	97	75-125			
Chloroethane	26.9	2.0	0.40	ug/l	25.0	ND	108	55-140			
Chloroform	26.9	1.0	0.33	ug/l	25.0	0.660	105	65-135			
Chloromethane	23.2	2.0	0.40	ug/l	25.0	ND	93	45-145			
2-Chlorotoluene	24.6	1.0	0.28	ug/l	25.0	ND	98	65-135			
4-Chlorotoluene	25.1	1.0	0.29	ug/l	25.0	ND	100	70-135			
1,2-Dibromo-3-chloropropane	22.8	2.0	0.97	ug/l	25.0	ND	91	45-145			
Dibromochloromethane	24.6	1.0	0.40	ug/l	25.0	ND	98	65-140			
1,2-Dibromoethane (EDB)	23.9	1.0	0.40	ug/l	25.0	ND	95	70-130			
1,3-Dichlorobenzene	25.1	1.0	0.35	ug/l	25.0	ND	100	75-125			
1,4-Dichlorobenzene	22.4	1.0	0.37	ug/l	25.0	ND	90	75-125			
1,2-Dichlorobenzene	25.2	1.0	0.32	ug/l	25.0	ND	101	75-125			
Dichlorodifluoromethane	25.7	1.0	0.26	ug/l	25.0	ND	103	25-155			
1,1-Dichloroethane	22.9	1.0	0.40	ug/l	25.0	ND	91	65-130			
1,2-Dichloroethane	26.2	0.50	0.28	ug/l	25.0	ND	105	60-140			

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BOE-C6-0188402

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
17461 Derian Avenue. Suite 100, Irvine, CA 92614 (949) 261-1022 Fax:(949) 260-3297

Avocet Environmental Inc.
16 Technology Drive, Suite 154
Irvine, CA 92618
Attention: Michael Rendina

Project ID: Boeing C-6 Torrance (02/26/08)
1155.006
Report Number: IRC1931

Sampled: 03/25/08
Received: 03/25/08

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8C27012 Extracted: 03/27/08											
Matrix Spike Analyzed: 03/27/2008 (8C27012-MS1)						**Source: IRC2086-03**					
cis-1,2-Dichloroethene	23.8	1.0	0.32	ug/l	25.0	ND	95	65-130			
1,1-Dichloroethene	19.5	1.0	0.42	ug/l	25.0	ND	78	60-130			
trans-1,2-Dichloroethene	25.1	1.0	0.30	ug/l	25.0	ND	100	65-130			
2,2-Dichloropropane	25.2	1.0	0.34	ug/l	25.0	ND	101	60-145			
1,2-Dichloropropane	24.2	1.0	0.35	ug/l	25.0	ND	97	65-130			
cis-1,3-Dichloropropene	23.1	0.50	0.22	ug/l	25.0	ND	92	70-130			
1,1-Dichloropropene	25.3	1.0	0.28	ug/l	25.0	ND	101	70-135			
trans-1,3-Dichloropropene	23.7	0.50	0.32	ug/l	25.0	ND	95	65-135			
Di-isopropyl Ether (DIPE)	23.6	2.0	0.25	ug/l	25.0	ND	94	60-140			
Ethylbenzene	24.1	1.0	0.25	ug/l	25.0	ND	96	65-130			
Ethyl tert-Butyl Ether (ETBE)	23.7	2.0	0.28	ug/l	25.0	ND	95	60-135			
Hexachlorobutadiene	23.6	1.0	0.38	ug/l	25.0	ND	95	60-135			
2-Hexanone	21.0	6.0	2.6	ug/l	25.0	ND	84	25-140			
Isopropylbenzene	27.8	1.0	0.25	ug/l	25.0	ND	111	70-135			
p-Isopropyltoluene	22.9	1.0	0.28	ug/l	25.0	ND	92	65-130			
Methyl-tert-butyl Ether (MTBE)	25.5	1.0	0.32	ug/l	25.0	ND	102	55-145			
Methylene chloride	22.3	1.0	0.95	ug/l	25.0	ND	89	50-135			
4-Methyl-2-pentanone (MIBK)	24.3	5.0	3.5	ug/l	25.0	ND	97	40-140			
n-Propylbenzene	24.3	1.0	0.27	ug/l	25.0	ND	97	70-135			
Styrene	8.38	1.0	0.20	ug/l	25.0	ND	34	50-145			*M2*
1,1,1,2-Tetrachloroethane	22.6	1.0	0.27	ug/l	25.0	ND	90	65-140			
1,1,2,2-Tetrachloroethane	24.8	1.0	0.30	ug/l	25.0	ND	99	55-135			
Tetrachloroethene	47.8	1.0	0.32	ug/l	25.0	28.5	77	65-130			
Toluene	25.4	1.0	0.36	ug/l	25.0	ND	102	70-125			
1,2,3-Trichlorobenzene	24.5	1.0	0.30	ug/l	25.0	ND	98	60-135			
1,2,4-Trichlorobenzene	25.1	1.0	0.48	ug/l	25.0	ND	100	65-135			
1,1,1-Trichloroethane	25.8	1.0	0.30	ug/l	25.0	ND	103	65-140			
1,1,2-Trichloroethane	26.1	1.0	0.30	ug/l	25.0	ND	105	65-130			
Trichloroethene	26.5	1.0	0.26	ug/l	25.0	1.10	102	65-125			
Trichlorofluoromethane	31.8	2.0	0.34	ug/l	25.0	ND	127	60-145			
1,2,3-Trichloropropane	24.0	1.0	0.40	ug/l	25.0	ND	96	55-135			
1,3,5-Trimethylbenzene	24.4	1.0	0.26	ug/l	25.0	ND	98	70-130			
1,2,4-Trimethylbenzene	24.2	1.0	0.23	ug/l	25.0	ND	97	55-135			
Vinyl acetate	9.67	6.0	1.0	ug/l	25.0	ND	39	40-150			*M2*
Vinyl chloride	23.7	0.50	0.40	ug/l	25.0	ND	95	45-140			

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Avocet Environmental Inc.
16 Technology Drive, Suite 154
Irvine, CA 92618
Attention: Michael Rendina

Project ID: Boeing C-6 Torrance (02/26/08)
1155.006
Report Number: IRC1931

Sampled: 03/25/08
Received: 03/25/08

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8C27012 Extracted: 03/27/08											
Matrix Spike Analyzed: 03/27/2008 (8C27012-MS1)						**Source: IRC2086-03**					
o-Xylene	24.9	0.50	0.30	ug/l	25.0	ND	100	65-125			
m,p-Xylenes	48.5	1.0	0.60	ug/l	50.0	ND	97	65-130			
Surrogate: Dibromofluoromethane	*25.1*			*ug/l*	*25.0*		*101*	*80-120*			
Surrogate: Toluene-d8	*25.8*			*ug/l*	*25.0*		*103*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*24.3*			*ug/l*	*25.0*		*97*	*80-120*			
Matrix Spike Dup Analyzed: 03/27/2008 (8C27012-MSD1)						**Source: IRC2086-03**					
Acetone	30.2	10	4.5	ug/l	25.0	13.3	68	20-150	4	35	
tert-Amyl Methyl Ether (TAME)	24.2	2.0	0.33	ug/l	25.0	ND	97	60-140	0	30	
Benzene	23.4	0.50	0.28	ug/l	25.0	ND	94	65-125	4	20	
Bromobenzene	26.5	1.0	0.27	ug/l	25.0	ND	106	70-125	7	20	
Bromochloromethane	25.0	1.0	0.40	ug/l	25.0	ND	100	65-135	1	25	
Bromodichloromethane	27.0	1.0	0.30	ug/l	25.0	ND	108	70-135	0	20	
Bromoform	20.4	1.0	0.40	ug/l	25.0	ND	82	55-135	5	25	
Bromomethane	26.6	1.0	0.42	ug/l	25.0	ND	107	55-145	1	25	
tert-Butanol (TBA)	125	25	6.5	ug/l	125	ND	100	65-140	2	25	
2-Butanone (MEK)	23.5	5.0	4.7	ug/l	25.0	ND	94	30-145	11	40	
tert-Butylbenzene	25.8	1.0	0.22	ug/l	25.0	ND	103	65-130	7	20	
n-Butylbenzene	24.1	1.0	0.37	ug/l	25.0	ND	97	65-135	6	20	
sec-Butylbenzene	25.0	1.0	0.25	ug/l	25.0	ND	100	70-125	7	20	
Carbon Disulfide	23.9	1.0	0.48	ug/l	25.0	ND	95	40-140	1	20	
Carbon tetrachloride	23.5	0.50	0.28	ug/l	25.0	ND	94	65-140	1	25	
Chlorobenzene	25.4	1.0	0.36	ug/l	25.0	ND	102	75-125	5	20	
Chloroethane	26.1	2.0	0.40	ug/l	25.0	ND	104	55-140	3	25	
Chloroform	26.6	1.0	0.33	ug/l	25.0	0.660	104	65-135	1	20	
Chloromethane	23.0	2.0	0.40	ug/l	25.0	ND	92	45-145	1	25	
2-Chlorotoluene	26.2	1.0	0.28	ug/l	25.0	ND	105	65-135	6	20	
4-Chlorotoluene	26.3	1.0	0.29	ug/l	25.0	ND	105	70-135	4	20	
1,2-Dibromo-3-chloropropane	24.3	2.0	0.97	ug/l	25.0	ND	97	45-145	6	30	
Dibromochloromethane	26.6	1.0	0.40	ug/l	25.0	ND	106	65-140	8	25	
1,2-Dibromoethane (EDB)	24.5	1.0	0.40	ug/l	25.0	ND	98	70-130	3	25	
1,3-Dichlorobenzene	26.6	1.0	0.35	ug/l	25.0	ND	106	75-125	6	20	
1,4-Dichlorobenzene	23.9	1.0	0.37	ug/l	25.0	ND	95	75-125	6	20	
1,2-Dichlorobenzene	26.5	1.0	0.32	ug/l	25.0	ND	106	75-125	5	20	
Dichlorodifluoromethane	25.6	1.0	0.26	ug/l	25.0	ND	102	25-155	1	30	
1,1-Dichloroethane	22.6	1.0	0.40	ug/l	25.0	ND	90	65-130	1	20	

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BOE-C6-0188403

Avocet Environmental Inc.
16 Technology Drive, Suite 154
Irvine, CA 92618
Attention: Michael Rendina

Project ID: Boeing C-6 Torrance (02/26/08)
1155.006
Report Number: IRC1931

Sampled: 03/25/08
Received: 03/25/08

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8C27012 Extracted: 03/27/08											
Matrix Spike Dup Analyzed: 03/27/2008 (8C27012-MSD1)						**Source: IRC2086-03**					
1,2-Dichloroethane	24.4	0.50	0.28	ug/l	25.0	ND	98	60-140	7	20	
cis-1,2-Dichloroethene	23.8	1.0	0.32	ug/l	25.0	ND	95	65-130	0	20	
1,1-Dichloroethene	19.9	1.0	0.42	ug/l	25.0	ND	80	60-130	2	20	
trans-1,2-Dichloroethene	24.5	1.0	0.30	ug/l	25.0	ND	98	65-130	2	20	
2,2-Dichloropropane	24.7	1.0	0.34	ug/l	25.0	ND	99	60-145	2	25	
1,2-Dichloropropane	23.2	1.0	0.35	ug/l	25.0	ND	93	65-130	4	20	
cis-1,3-Dichloropropene	22.2	0.50	0.22	ug/l	25.0	ND	89	70-130	4	20	
1,1-Dichloropropene	24.1	1.0	0.28	ug/l	25.0	ND	96	70-135	5	20	
trans-1,3-Dichloropropene	22.8	0.50	0.32	ug/l	25.0	ND	91	65-135	4	25	
Di-isopropyl Ether (DIPE)	23.3	2.0	0.25	ug/l	25.0	ND	93	60-140	1	25	
Ethylbenzene	25.3	1.0	0.25	ug/l	25.0	ND	101	65-130	5	20	
Ethyl tert-Butyl Ether (ETBE)	22.8	2.0	0.28	ug/l	25.0	ND	91	60-135	4	25	
Hexachlorobutadiene	26.3	1.0	0.38	ug/l	25.0	ND	105	60-135	11	20	
2-Hexanone	21.3	6.0	2.6	ug/l	25.0	ND	85	25-140	2	35	
Isopropylbenzene	29.1	1.0	0.25	ug/l	25.0	ND	116	70-135	5	20	
p-Isopropyltoluene	24.4	1.0	0.28	ug/l	25.0	ND	97	65-130	6	20	
Methyl-tert-butyl Ether (MTBE)	24.7	1.0	0.32	ug/l	25.0	ND	99	55-145	3	25	
Methylene chloride	22.4	1.0	0.95	ug/l	25.0	ND	89	50-135	0	20	
4-Methyl-2-pentanone (MIBK)	22.6	5.0	3.5	ug/l	25.0	ND	91	40-140	7	35	
n-Propylbenzene	26.2	1.0	0.27	ug/l	25.0	ND	105	70-135	7	20	
Styrene	8.64	1.0	0.20	ug/l	25.0	ND	35	50-145	3	30	*M2*
1,1,1,2-Tetrachloroethane	23.7	1.0	0.27	ug/l	25.0	ND	95	65-140	5	20	
1,1,2,2-Tetrachloroethane	25.0	1.0	0.30	ug/l	25.0	ND	100	55-135	1	30	
Tetrachloroethene	49.1	1.0	0.32	ug/l	25.0	28.5	82	65-130	3	20	
Toluene	24.8	1.0	0.36	ug/l	25.0	ND	99	70-125	2	20	
1,2,3-Trichlorobenzene	26.4	1.0	0.30	ug/l	25.0	ND	106	60-135	7	20	
1,2,4-Trichlorobenzene	27.7	1.0	0.48	ug/l	25.0	ND	111	65-135	10	20	
1,1,1-Trichloroethane	26.0	1.0	0.30	ug/l	25.0	ND	104	65-140	1	20	
1,1,2-Trichloroethane	25.4	1.0	0.30	ug/l	25.0	ND	101	65-130	3	25	
Trichloroethene	25.4	1.0	0.26	ug/l	25.0	1.10	97	65-125	4	20	
Trichlorofluoromethane	31.3	2.0	0.34	ug/l	25.0	ND	125	60-145	2	25	
1,2,3-Trichloropropane	24.8	1.0	0.40	ug/l	25.0	ND	99	55-135	3	30	
1,3,5-Trimethylbenzene	25.1	1.0	0.26	ug/l	25.0	ND	101	70-130	3	20	
1,2,4-Trimethylbenzene	25.3	1.0	0.23	ug/l	25.0	ND	101	55-135	4	25	
Vinyl acetate	9.71	6.0	1.0	ug/l	25.0	ND	39	40-150	0	30	*M2*

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Project Manager

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Avocet Environmental Inc.
16 Technology Drive, Suite 154
Irvine, CA 92618
Attention: Michael Rendina

Project ID: Boeing C-6 Torrance (02/26/08)
1155.006
Report Number: IRC1931

Sampled: 03/25/08
Received: 03/25/08

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8C27012 Extracted: 03/27/08											
Matrix Spike Dup Analyzed: 03/27/2008 (8C27012-MSD1)						**Source: IRC2086-03**					
Vinyl chloride	22.6	0.50	0.40	ug/l	25.0	ND	90	45-140	5	30	
o-Xylene	25.0	0.50	0.30	ug/l	25.0	ND	100	65-125	1	20	
m,p-Xylenes	49.0	1.0	0.60	ug/l	50.0	ND	98	65-130	1	25	
Surrogate: Dibromofluoromethane	*24.7*			*ug/l*	*25.0*		*99*	*80-120*			
Surrogate: Toluene-d8	*25.0*			*ug/l*	*25.0*		*100*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*24.4*			*ug/l*	*25.0*		*97*	*80-120*			
Batch: 8C28006 Extracted: 03/28/08											
Blank Analyzed: 03/28/2008 (8C28006-BLK1)											
Acetone	ND	10	4.5	ug/l							
tert-Amyl Methyl Ether (TAME)	ND	2.0	0.33	ug/l							
Benzene	ND	0.50	0.28	ug/l							
Bromobenzene	ND	1.0	0.27	ug/l							
Bromochloromethane	ND	1.0	0.40	ug/l							
Bromodichloromethane	ND	1.0	0.30	ug/l							
Bromoform	ND	1.0	0.40	ug/l							
Bromomethane	ND	1.0	0.42	ug/l							
tert-Butanol (TBA)	ND	25	6.5	ug/l							
2-Butanone (MEK)	ND	5.0	4.7	ug/l							
tert-Butylbenzene	ND	1.0	0.22	ug/l							
n-Butylbenzene	ND	1.0	0.37	ug/l							
sec-Butylbenzene	ND	1.0	0.25	ug/l							
Carbon Disulfide	ND	1.0	0.48	ug/l							
Carbon tetrachloride	ND	0.50	0.28	ug/l							
Chlorobenzene	ND	1.0	0.36	ug/l							
Chloroethane	ND	2.0	0.40	ug/l							
Chloroform	ND	1.0	0.33	ug/l							
Chloromethane	ND	2.0	0.40	ug/l							
2-Chlorotoluene	ND	1.0	0.28	ug/l							
4-Chlorotoluene	ND	1.0	0.29	ug/l							
1,2-Dibromo-3-chloropropane	ND	2.0	0.97	ug/l							
Dibromochloromethane	ND	1.0	0.40	ug/l							
1,2-Dibromoethane (EDB)	ND	1.0	0.40	ug/l							
1,3-Dichlorobenzene	ND	1.0	0.35	ug/l							
1,4-Dichlorobenzene	ND	1.0	0.37	ug/l							

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BOE-C6-0188404

Avocet Environmental Inc.
16 Technology Drive, Suite 154
Irvine, CA 92618
Attention: Michael Rendina

Project ID: Boeing C-6 Torrance (02/26/08)
1155.006
Report Number: IRC1931

Sampled: 03/25/08
Received: 03/25/08

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8C28006 Extracted: 03/28/08											
Blank Analyzed: 03/28/2008 (8C28006-BLK1)											
1,2-Dichlorobenzene	ND	1.0	0.32	ug/l							
Dichlorodifluoromethane	ND	1.0	0.26	ug/l							
1,1-Dichloroethane	ND	1.0	0.40	ug/l							
1,2-Dichloroethane	ND	0.50	0.28	ug/l							
cis-1,2-Dichloroethene	ND	1.0	0.32	ug/l							
1,1-Dichloroethene	ND	1.0	0.42	ug/l							
trans-1,2-Dichloroethene	ND	1.0	0.30	ug/l							
2,2-Dichloropropane	ND	1.0	0.34	ug/l							
1,2-Dichloropropane	ND	1.0	0.35	ug/l							
cis-1,3-Dichloropropene	ND	0.50	0.22	ug/l							
1,1-Dichloropropene	ND	1.0	0.28	ug/l							
trans-1,3-Dichloropropene	ND	0.50	0.32	ug/l							
Di-isopropyl Ether (DIPE)	ND	2.0	0.25	ug/l							
Ethylbenzene	ND	1.0	0.25	ug/l							
Ethyl tert-Butyl Ether (ETBE)	ND	2.0	0.28	ug/l							
Hexachlorobutadiene	ND	1.0	0.38	ug/l							
2-Hexanone	ND	6.0	2.6	ug/l							
Iodomethane	ND	2.0	1.0	ug/l							
Isopropylbenzene	ND	1.0	0.25	ug/l							
p-Isopropyltoluene	ND	1.0	0.28	ug/l							
Methyl-tert-butyl Ether (MTBE)	ND	1.0	0.32	ug/l							
Methylene chloride	ND	1.0	0.95	ug/l							
4-Methyl-2-pentanone (MIBK)	ND	5.0	3.5	ug/l							
n-Propylbenzene	ND	1.0	0.27	ug/l							
Styrene	ND	1.0	0.20	ug/l							
1,1,1,2-Tetrachloroethane	ND	1.0	0.27	ug/l							
1,1,2,2-Tetrachloroethane	ND	1.0	0.30	ug/l							
Tetrachloroethene	ND	1.0	0.32	ug/l							
Tetrahydrofuran (THF)	ND	10	3.5	ug/l							
Toluene	ND	1.0	0.36	ug/l							
1,2,3-Trichlorobenzene	ND	1.0	0.30	ug/l							
1,2,4-Trichlorobenzene	ND	1.0	0.48	ug/l							
1,1,1-Trichloroethane	ND	1.0	0.30	ug/l							
1,1,2-Trichloroethane	ND	1.0	0.30	ug/l							
Trichloroethene	ND	1.0	0.26	ug/l							

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Project Manager

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
17461 Derian Avenue. Suite 100, Irvine, CA 92614 (949) 261-1022 Fax:(949) 260-3297

Avocet Environmental Inc.
16 Technology Drive, Suite 154
Irvine, CA 92618
Attention: Michael Rendina

Project ID: Boeing C-6 Torrance (02/26/08)
1155.006
Report Number: IRC1931

Sampled: 03/25/08
Received: 03/25/08

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8C28006 Extracted: 03/28/08											
Blank Analyzed: 03/28/2008 (8C28006-BLK1)											
Trichlorofluoromethane	ND	2.0	0.34	ug/l							
1,2,3-Trichloropropane	ND	1.0	0.40	ug/l							
1,3,5-Trimethylbenzene	ND	1.0	0.26	ug/l							
1,2,4-Trimethylbenzene	ND	1.0	0.23	ug/l							
Vinyl acetate	ND	6.0	1.0	ug/l							
Vinyl chloride	ND	0.50	0.40	ug/l							
o-Xylene	ND	0.50	0.30	ug/l							
Xylenes, Total	ND	1.0	0.90	ug/l							
m,p-Xylenes	ND	1.0	0.60	ug/l							
Surrogate: Dibromofluoromethane	*25.5*			*ug/l*	*25.0*		*102*	*80-120*			
Surrogate: Toluene-d8	*25.1*			*ug/l*	*25.0*		*100*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*23.6*			*ug/l*	*25.0*		*95*	*80-120*			
LCS Analyzed: 03/28/2008 (8C28006-BS1)											
Acetone	21.0	10	4.5	ug/l	25.0		84	30-140			
tert-Amyl Methyl Ether (TAME)	25.2	2.0	0.33	ug/l	25.0		101	60-135			
Benzene	24.0	0.50	0.28	ug/l	25.0		96	70-120			
Bromobenzene	26.3	1.0	0.27	ug/l	25.0		105	75-120			
Bromochloromethane	25.9	1.0	0.40	ug/l	25.0		104	70-130			
Bromodichloromethane	27.1	1.0	0.30	ug/l	25.0		108	70-135			
Bromoform	21.6	1.0	0.40	ug/l	25.0		86	55-130			
Bromomethane	27.9	1.0	0.42	ug/l	25.0		112	65-140			
tert-Butanol (TBA)	130	25	6.5	ug/l	125		104	70-135			
2-Butanone (MEK)	24.4	5.0	4.7	ug/l	25.0		97	40-140			
tert-Butylbenzene	25.4	1.0	0.22	ug/l	25.0		101	70-125			
n-Butylbenzene	24.0	1.0	0.37	ug/l	25.0		96	70-130			
sec-Butylbenzene	23.9	1.0	0.25	ug/l	25.0		96	70-125			
Carbon Disulfide	25.8	1.0	0.48	ug/l	25.0		103	50-130			
Carbon tetrachloride	24.7	0.50	0.28	ug/l	25.0		99	65-140			
Chlorobenzene	25.6	1.0	0.36	ug/l	25.0		102	75-120			
Chloroethane	27.2	2.0	0.40	ug/l	25.0		109	60-140			
Chloroform	26.8	1.0	0.33	ug/l	25.0		107	70-130			
Chloromethane	23.8	2.0	0.40	ug/l	25.0		95	50-140			
2-Chlorotoluene	25.5	1.0	0.28	ug/l	25.0		102	70-125			
4-Chlorotoluene	26.5	1.0	0.29	ug/l	25.0		106	75-125			
1,2-Dibromo-3-chloropropane	24.8	2.0	0.97	ug/l	25.0		99	50-135			

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BOE-C6-0188405

Avocet Environmental Inc.
16 Technology Drive, Suite 154
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Attention: Michael Rendina

Project ID: Boeing C-6 Torrance (02/26/08)
1155.006
Report Number: IRC1931

Sampled: 03/25/08
Received: 03/25/08

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8C28006 Extracted: 03/28/08											
LCS Analyzed: 03/28/2008 (8C28006-BS1)											
Dibromochloromethane	27.7	1.0	0.40	ug/l	25.0		111	70-140			
1,2-Dibromoethane (EDB)	24.8	1.0	0.40	ug/l	25.0		99	75-125			
1,3-Dichlorobenzene	26.2	1.0	0.35	ug/l	25.0		105	75-120			
1,4-Dichlorobenzene	23.5	1.0	0.37	ug/l	25.0		94	75-120			
1,2-Dichlorobenzene	26.2	1.0	0.32	ug/l	25.0		105	75-120			
Dichlorodifluoromethane	28.0	1.0	0.26	ug/l	25.0		112	35-155			
1,1-Dichloroethane	23.4	1.0	0.40	ug/l	25.0		94	70-125			
1,2-Dichloroethane	25.5	0.50	0.28	ug/l	25.0		102	60-140			
cis-1,2-Dichloroethene	24.3	1.0	0.32	ug/l	25.0		97	70-125			
1,1-Dichloroethene	21.3	1.0	0.42	ug/l	25.0		85	70-125			
trans-1,2-Dichloroethene	25.4	1.0	0.30	ug/l	25.0		102	70-125			
2,2-Dichloropropane	24.9	1.0	0.34	ug/l	25.0		100	65-140			
1,2-Dichloropropane	23.4	1.0	0.35	ug/l	25.0		94	70-125			
cis-1,3-Dichloropropene	21.9	0.50	0.22	ug/l	25.0		87	75-125			
1,1-Dichloropropene	24.8	1.0	0.28	ug/l	25.0		99	75-130			
trans-1,3-Dichloropropene	23.3	0.50	0.32	ug/l	25.0		93	70-125			
Di-isopropyl Ether (DIPE)	23.3	2.0	0.25	ug/l	25.0		93	60-135			
Ethylbenzene	25.7	1.0	0.25	ug/l	25.0		103	75-125			
Ethyl tert-Butyl Ether (ETBE)	24.0	2.0	0.28	ug/l	25.0		96	65-135			
Hexachlorobutadiene	24.6	1.0	0.38	ug/l	25.0		98	65-135			
2-Hexanone	21.3	6.0	2.6	ug/l	25.0		85	45-140			
Isopropylbenzene	28.1	1.0	0.25	ug/l	25.0		112	75-130			
p-Isopropyltoluene	24.0	1.0	0.28	ug/l	25.0		96	75-125			
Methyl-tert-butyl Ether (MTBE)	25.7	1.0	0.32	ug/l	25.0		103	60-135			
Methylene chloride	23.5	1.0	0.95	ug/l	25.0		94	55-130			
4-Methyl-2-pentanone (MIBK)	22.8	5.0	3.5	ug/l	25.0		91	45-140			
n-Propylbenzene	25.6	1.0	0.27	ug/l	25.0		102	75-130			
Styrene	25.2	1.0	0.20	ug/l	25.0		101	75-130			
1,1,1,2-Tetrachloroethane	25.0	1.0	0.27	ug/l	25.0		100	70-130			
1,1,2,2-Tetrachloroethane	25.2	1.0	0.30	ug/l	25.0		101	55-130			
Tetrachloroethene	25.2	1.0	0.32	ug/l	25.0		101	70-125			
Toluene	25.3	1.0	0.36	ug/l	25.0		101	70-120			
1,2,3-Trichlorobenzene	25.6	1.0	0.30	ug/l	25.0		102	65-125			
1,2,4-Trichlorobenzene	25.3	1.0	0.48	ug/l	25.0		101	70-135			
1,1,1-Trichloroethane	26.1	1.0	0.30	ug/l	25.0		104	65-135			

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Avocet Environmental Inc.
16 Technology Drive, Suite 154
Irvine, CA 92618
Attention: Michael Rendina

Project ID: Boeing C-6 Torrance (02/26/08)
1155.006
Report Number: IRC1931

Sampled: 03/25/08
Received: 03/25/08

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8C28006 Extracted: 03/28/08											
LCS Analyzed: 03/28/2008 (8C28006-BS1)											
1,1,2-Trichloroethane	25.3	1.0	0.30	ug/l	25.0		101	70-125			
Trichloroethene	24.8	1.0	0.26	ug/l	25.0		99	70-125			
Trichlorofluoromethane	32.5	2.0	0.34	ug/l	25.0		130	65-145			
1,2,3-Trichloropropane	24.5	1.0	0.40	ug/l	25.0		98	60-130			
1,3,5-Trimethylbenzene	25.6	1.0	0.26	ug/l	25.0		102	75-125			
1,2,4-Trimethylbenzene	25.4	1.0	0.23	ug/l	25.0		102	75-125			
Vinyl acetate	22.7	6.0	1.0	ug/l	25.0		91	45-145			
Vinyl chloride	23.3	0.50	0.40	ug/l	25.0		93	55-135			
o-Xylene	25.8	0.50	0.30	ug/l	25.0		103	75-125			
m,p-Xylenes	50.2	1.0	0.60	ug/l	50.0		100	75-125			
Surrogate: Dibromofluoromethane	*25.2*			*ug/l*	*25.0*		*101*	*80-120*			
Surrogate: Toluene-d8	*24.9*			*ug/l*	*25.0*		*100*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*24.1*			*ug/l*	*25.0*		*96*	*80-120*			
Matrix Spike Analyzed: 03/28/2008 (8C28006-MS1)						**Source: IRC2186-02**					
Acetone	20.1	10	4.5	ug/l	25.0	ND	80	20-150			
tert-Amyl Methyl Ether (TAME)	26.4	2.0	0.33	ug/l	25.0	ND	106	60-140			
Benzene	25.1	0.50	0.28	ug/l	25.0	ND	101	65-125			
Bromobenzene	28.3	1.0	0.27	ug/l	25.0	ND	113	70-125			
Bromochloromethane	28.4	1.0	0.40	ug/l	25.0	ND	114	65-135			
Bromodichloromethane	28.7	1.0	0.30	ug/l	25.0	ND	115	70-135			
Bromoform	21.4	1.0	0.40	ug/l	25.0	ND	85	55-135			
Bromomethane	30.8	1.0	0.42	ug/l	25.0	ND	123	55-145			
tert-Butanol (TBA)	141	25	6.5	ug/l	125	ND	113	65-140			
2-Butanone (MEK)	26.5	5.0	4.7	ug/l	25.0	ND	106	30-145			
tert-Butylbenzene	27.7	1.0	0.22	ug/l	25.0	ND	111	65-130			
n-Butylbenzene	26.7	1.0	0.37	ug/l	25.0	ND	107	65-135			
sec-Butylbenzene	27.1	1.0	0.25	ug/l	25.0	ND	109	70-125			
Carbon Disulfide	28.3	1.0	0.48	ug/l	25.0	ND	113	40-140			
Carbon tetrachloride	25.1	0.50	0.28	ug/l	25.0	ND	101	65-140			
Chlorobenzene	26.9	1.0	0.36	ug/l	25.0	ND	108	75-125			
Chloroethane	28.8	2.0	0.40	ug/l	25.0	ND	115	55-140			
Chloroform	29.9	1.0	0.33	ug/l	25.0	0.400	118	65-135			
Chloromethane	26.9	2.0	0.40	ug/l	25.0	ND	107	45-145			
2-Chlorotoluene	28.2	1.0	0.28	ug/l	25.0	ND	113	65-135			
4-Chlorotoluene	29.0	1.0	0.29	ug/l	25.0	ND	116	70-135			

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Project Manager

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BOE-C6-0188406

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Avocet Environmental Inc.
16 Technology Drive, Suite 154
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Attention: Michael Rendina

Project ID: Boeing C-6 Torrance (02/26/08)
1155.006
Report Number: IRC1931

Sampled: 03/25/08
Received: 03/25/08

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8C28006 Extracted: 03/28/08											
Matrix Spike Analyzed: 03/28/2008 (8C28006-MS1)						**Source: IRC2186-02**					
1,2-Dibromo-3-chloropropane	25.5	2.0	0.97	ug/l	25.0	ND	102	45-145			
Dibromochloromethane	27.8	1.0	0.40	ug/l	25.0	ND	111	65-140			
1,2-Dibromoethane (EDB)	26.2	1.0	0.40	ug/l	25.0	ND	105	70-130			
1,3-Dichlorobenzene	28.0	1.0	0.35	ug/l	25.0	ND	112	75-125			
1,4-Dichlorobenzene	25.5	1.0	0.37	ug/l	25.0	ND	102	75-125			
1,2-Dichlorobenzene	28.0	1.0	0.32	ug/l	25.0	ND	112	75-125			
Dichlorodifluoromethane	33.8	1.0	0.26	ug/l	25.0	ND	135	25-155			
1,1-Dichloroethane	29.0	1.0	0.40	ug/l	25.0	2.95	104	65-130			
1,2-Dichloroethane	27.2	0.50	0.28	ug/l	25.0	ND	109	60-140			
cis-1,2-Dichloroethene	26.9	1.0	0.32	ug/l	25.0	ND	108	65-130			
1,1-Dichloroethene	21.6	1.0	0.42	ug/l	25.0	ND	87	60-130			
trans-1,2-Dichloroethene	28.1	1.0	0.30	ug/l	25.0	ND	112	65-130			
2,2-Dichloropropane	29.5	1.0	0.34	ug/l	25.0	ND	118	60-145			
1,2-Dichloropropane	25.0	1.0	0.35	ug/l	25.0	ND	100	65-130			
cis-1,3-Dichloropropene	22.7	0.50	0.22	ug/l	25.0	ND	91	70-130			
1,1-Dichloropropene	26.3	1.0	0.28	ug/l	25.0	ND	105	70-135			
trans-1,3-Dichloropropene	24.3	0.50	0.32	ug/l	25.0	ND	97	65-135			
Di-isopropyl Ether (DIPE)	26.2	2.0	0.25	ug/l	25.0	ND	105	60-140			
Ethylbenzene	27.2	1.0	0.25	ug/l	25.0	ND	109	65-130			
Ethyl tert-Butyl Ether (ETBE)	25.7	2.0	0.28	ug/l	25.0	ND	103	60-135			
Hexachlorobutadiene	27.7	1.0	0.38	ug/l	25.0	ND	111	60-135			
2-Hexanone	22.2	6.0	2.6	ug/l	25.0	ND	89	25-140			
Isopropylbenzene	31.1	1.0	0.25	ug/l	25.0	ND	124	70-135			
p-Isopropyltoluene	25.8	1.0	0.28	ug/l	25.0	ND	103	65-130			
Methyl-tert-butyl Ether (MTBE)	27.3	1.0	0.32	ug/l	25.0	ND	109	55-145			
Methylene chloride	24.8	1.0	0.95	ug/l	25.0	ND	99	50-135			
4-Methyl-2-pentanone (MIBK)	24.3	5.0	3.5	ug/l	25.0	ND	97	40-140			
n-Propylbenzene	28.1	1.0	0.27	ug/l	25.0	ND	112	70-135			
Styrene	23.4	1.0	0.20	ug/l	25.0	ND	94	50-145			
1,1,1,2-Tetrachloroethane	25.4	1.0	0.27	ug/l	25.0	ND	101	65-140			
1,1,2,2-Tetrachloroethane	27.4	1.0	0.30	ug/l	25.0	ND	109	55-135			
Tetrachloroethene	26.4	1.0	0.32	ug/l	25.0	ND	106	65-130			
Toluene	26.4	1.0	0.36	ug/l	25.0	ND	106	70-125			
1,2,3-Trichlorobenzene	28.0	1.0	0.30	ug/l	25.0	ND	112	60-135			
1,2,4-Trichlorobenzene	28.2	1.0	0.48	ug/l	25.0	ND	113	65-135			

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Project Manager

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Avocet Environmental Inc.
16 Technology Drive, Suite 154
Irvine, CA 92618
Attention: Michael Rendina

Project ID: Boeing C-6 Torrance (02/26/08)
1155.006
Report Number: IRC1931

Sampled: 03/25/08
Received: 03/25/08

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8C28006 Extracted: 03/28/08											
Matrix Spike Analyzed: 03/28/2008 (8C28006-MS1)						**Source: IRC2186-02**					
1,1,1-Trichloroethane	28.9	1.0	0.30	ug/l	25.0	ND	116	65-140			
1,1,2-Trichloroethane	26.6	1.0	0.30	ug/l	25.0	ND	106	65-130			
Trichloroethene	26.1	1.0	0.26	ug/l	25.0	ND	104	65-125			
Trichlorofluoromethane	36.6	2.0	0.34	ug/l	25.0	ND	146	60-145			*M1*
1,2,3-Trichloropropane	26.2	1.0	0.40	ug/l	25.0	ND	105	55-135			
1,3,5-Trimethylbenzene	27.0	1.0	0.26	ug/l	25.0	ND	108	70-130			
1,2,4-Trimethylbenzene	25.0	1.0	0.23	ug/l	25.0	ND	100	55-135			
Vinyl acetate	22.9	6.0	1.0	ug/l	25.0	ND	92	40-150			
Vinyl chloride	27.6	0.50	0.40	ug/l	25.0	ND	110	45-140			
o-Xylene	26.8	0.50	0.30	ug/l	25.0	ND	107	65-125			
m,p-Xylenes	53.4	1.0	0.60	ug/l	50.0	ND	107	65-130			
Surrogate: Dibromofluoromethane	*26.1*			*ug/l*	*25.0*		*104*	*80-120*			
Surrogate: Toluene-d8	*24.0*			*ug/l*	*25.0*		*96*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*24.0*			*ug/l*	*25.0*		*96*	*80-120*			
Matrix Spike Dup Analyzed: 03/28/2008 (8C28006-MSD1)						**Source: IRC2186-02**					
Acetone	21.6	10	4.5	ug/l	25.0	ND	86	20-150	7	35	
tert-Amyl Methyl Ether (TAME)	25.6	2.0	0.33	ug/l	25.0	ND	103	60-140	3	30	
Benzene	26.0	0.50	0.28	ug/l	25.0	ND	104	65-125	3	20	
Bromobenzene	28.1	1.0	0.27	ug/l	25.0	ND	113	70-125	1	20	
Bromochloromethane	27.6	1.0	0.40	ug/l	25.0	ND	110	65-135	3	25	
Bromodichloromethane	29.9	1.0	0.30	ug/l	25.0	ND	119	70-135	4	20	
Bromoform	22.4	1.0	0.40	ug/l	25.0	ND	90	55-135	5	25	
Bromomethane	30.5	1.0	0.42	ug/l	25.0	ND	122	55-145	1	25	
tert-Butanol (TBA)	142	25	6.5	ug/l	125	ND	114	65-140	1	25	
2-Butanone (MEK)	24.4	5.0	4.7	ug/l	25.0	ND	98	30-145	8	40	
tert-Butylbenzene	27.7	1.0	0.22	ug/l	25.0	ND	111	65-130	0	20	
n-Butylbenzene	25.7	1.0	0.37	ug/l	25.0	ND	103	65-135	4	20	
sec-Butylbenzene	26.5	1.0	0.25	ug/l	25.0	ND	106	70-125	2	20	
Carbon Disulfide	26.6	1.0	0.48	ug/l	25.0	ND	107	40-140	6	20	
Carbon tetrachloride	26.6	0.50	0.28	ug/l	25.0	ND	106	65-140	6	25	
Chlorobenzene	27.1	1.0	0.36	ug/l	25.0	ND	108	75-125	1	20	
Chloroethane	29.2	2.0	0.40	ug/l	25.0	ND	117	55-140	1	25	
Chloroform	29.2	1.0	0.33	ug/l	25.0	0.400	115	65-135	2	20	
Chloromethane	26.6	2.0	0.40	ug/l	25.0	ND	107	45-145	1	25	
2-Chlorotoluene	27.8	1.0	0.28	ug/l	25.0	ND	111	65-135	1	20	

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Project Manager

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BOE-C6-0188407

Avocet Environmental Inc.
16 Technology Drive, Suite 154
Irvine, CA 92618
Attention: Michael Rendina

Project ID: Boeing C-6 Torrance (02/26/08)
1155.006
Report Number: IRC1931

Sampled: 03/25/08
Received: 03/25/08

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8C28006 Extracted: 03/28/08											
Matrix Spike Dup Analyzed: 03/28/2008 (8C28006-MSD1)						**Source: IRC2186-02**					
4-Chlorotoluene	28.6	1.0	0.29	ug/l	25.0	ND	114	70-135	1	20	
1,2-Dibromo-3-chloropropane	26.8	2.0	0.97	ug/l	25.0	ND	107	45-145	5	30	
Dibromochloromethane	28.4	1.0	0.40	ug/l	25.0	ND	114	65-140	2	25	
1,2-Dibromoethane (EDB)	26.7	1.0	0.40	ug/l	25.0	ND	107	70-130	2	25	
1,3-Dichlorobenzene	28.2	1.0	0.35	ug/l	25.0	ND	113	75-125	1	20	
1,4-Dichlorobenzene	25.1	1.0	0.37	ug/l	25.0	ND	100	75-125	2	20	
1,2-Dichlorobenzene	27.6	1.0	0.32	ug/l	25.0	ND	111	75-125	1	20	
Dichlorodifluoromethane	35.6	1.0	0.26	ug/l	25.0	ND	143	25-155	5	30	
1,1-Dichloroethane	28.1	1.0	0.40	ug/l	25.0	2.95	101	65-130	3	20	
1,2-Dichloroethane	28.1	0.50	0.28	ug/l	25.0	ND	112	60-140	3	20	
cis-1,2-Dichloroethene	26.3	1.0	0.32	ug/l	25.0	ND	105	65-130	2	20	
1,1-Dichloroethene	22.0	1.0	0.42	ug/l	25.0	ND	88	60-130	2	20	
trans-1,2-Dichloroethene	27.0	1.0	0.30	ug/l	25.0	ND	108	65-130	4	20	
2,2-Dichloropropane	28.8	1.0	0.34	ug/l	25.0	ND	115	60-145	2	25	
1,2-Dichloropropane	25.8	1.0	0.35	ug/l	25.0	ND	103	65-130	3	20	
cis-1,3-Dichloropropene	24.4	0.50	0.22	ug/l	25.0	ND	98	70-130	8	20	
1,1-Dichloropropene	27.2	1.0	0.28	ug/l	25.0	ND	109	70-135	4	20	
trans-1,3-Dichloropropene	24.7	0.50	0.32	ug/l	25.0	ND	99	65-135	2	25	
Di-isopropyl Ether (DIPE)	24.6	2.0	0.25	ug/l	25.0	ND	98	60-140	6	25	
Ethylbenzene	27.6	1.0	0.25	ug/l	25.0	ND	110	65-130	1	20	
Ethyl tert-Butyl Ether (ETBE)	25.1	2.0	0.28	ug/l	25.0	ND	100	60-135	2	25	
Hexachlorobutadiene	26.3	1.0	0.38	ug/l	25.0	ND	105	60-135	5	20	
2-Hexanone	22.6	6.0	2.6	ug/l	25.0	ND	91	25-140	2	35	
Isopropylbenzene	31.0	1.0	0.25	ug/l	25.0	ND	124	70-135	1	20	
p-Isopropyltoluene	25.5	1.0	0.28	ug/l	25.0	ND	102	65-130	1	20	
Methyl-tert-butyl Ether (MTBE)	26.8	1.0	0.32	ug/l	25.0	ND	107	55-145	2	25	
Methylene chloride	24.6	1.0	0.95	ug/l	25.0	ND	98	50-135	1	20	
4-Methyl-2-pentanone (MIBK)	24.4	5.0	3.5	ug/l	25.0	ND	98	40-140	1	35	
n-Propylbenzene	27.1	1.0	0.27	ug/l	25.0	ND	108	70-135	4	20	
Styrene	20.3	1.0	0.20	ug/l	25.0	ND	81	50-145	14	30	
1,1,1,2-Tetrachloroethane	26.2	1.0	0.27	ug/l	25.0	ND	105	65-140	3	20	
1,1,2,2-Tetrachloroethane	28.0	1.0	0.30	ug/l	25.0	ND	112	55-135	2	30	
Tetrachloroethene	26.4	1.0	0.32	ug/l	25.0	ND	106	65-130	0	20	
Toluene	27.4	1.0	0.36	ug/l	25.0	ND	110	70-125	4	20	
1,2,3-Trichlorobenzene	26.8	1.0	0.30	ug/l	25.0	ND	107	60-135	4	20	

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Project Manager

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Avocet Environmental Inc.
16 Technology Drive, Suite 154
Irvine, CA 92618
Attention: Michael Rendina

Project ID: Boeing C-6 Torrance (02/26/08)
1155.006
Report Number: IRC1931

Sampled: 03/25/08
Received: 03/25/08

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8C28006 Extracted: 03/28/08											
Matrix Spike Dup Analyzed: 03/28/2008 (8C28006-MSD1)						**Source: IRC2186-02**					
1,2,4-Trichlorobenzene	27.5	1.0	0.48	ug/l	25.0	ND	110	65-135	3	20	
1,1,1-Trichloroethane	29.0	1.0	0.30	ug/l	25.0	ND	116	65-140	0	20	
1,1,2-Trichloroethane	27.2	1.0	0.30	ug/l	25.0	ND	109	65-130	2	25	
Trichloroethene	27.0	1.0	0.26	ug/l	25.0	ND	108	65-125	3	20	
Trichlorofluoromethane	36.2	2.0	0.34	ug/l	25.0	ND	145	60-145	1	25	
1,2,3-Trichloropropane	27.4	1.0	0.40	ug/l	25.0	ND	110	55-135	4	30	
1,3,5-Trimethylbenzene	25.4	1.0	0.26	ug/l	25.0	ND	102	70-130	6	20	
1,2,4-Trimethylbenzene	23.5	1.0	0.23	ug/l	25.0	ND	94	55-135	6	25	
Vinyl acetate	22.2	6.0	1.0	ug/l	25.0	ND	89	40-150	3	30	
Vinyl chloride	27.3	0.50	0.40	ug/l	25.0	ND	109	45-140	1	30	
o-Xylene	27.0	0.50	0.30	ug/l	25.0	ND	108	65-125	1	20	
m,p-Xylenes	52.0	1.0	0.60	ug/l	50.0	ND	104	65-130	3	25	
Surrogate: Dibromofluoromethane	*25.3*			*ug/l*	*25.0*		*101*	*80-120*			
Surrogate: Toluene-d8	*24.6*			*ug/l*	*25.0*		*98*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*23.4*			*ug/l*	*25.0*		*94*	*80-120*			
Batch: 8C28019 Extracted: 03/28/08											
Blank Analyzed: 03/28/2008 (8C28019-BLK1)											
Acetone	ND	10	4.5	ug/l							
Chloroform	ND	1.0	0.33	ug/l							
Surrogate: Dibromofluoromethane	*23.1*			*ug/l*	*25.0*		*93*	*80-120*			
Surrogate: Toluene-d8	*23.7*			*ug/l*	*25.0*		*95*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*22.9*			*ug/l*	*25.0*		*92*	*80-120*			
LCS Analyzed: 03/28/2008 (8C28019-BS1)											
Acetone	22.7	10	4.5	ug/l	25.0		91	30-140			
Chloroform	24.2	1.0	0.33	ug/l	25.0		97	70-130			
Surrogate: Dibromofluoromethane	*23.5*			*ug/l*	*25.0*		*94*	*80-120*			
Surrogate: Toluene-d8	*24.0*			*ug/l*	*25.0*		*96*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*25.8*			*ug/l*	*25.0*		*103*	*80-120*			

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Project Manager

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BOE-C6-0188408

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17461 Derian Avenue. Suite 100, Irvine, CA 92614 (949) 261-1022 Fax:(949) 260-3297

Avocet Environmental Inc.
16 Technology Drive, Suite 154
Irvine, CA 92618
Attention: Michael Rendina

Project ID: Boeing C-6 Torrance (02/26/08)
1155.006
Report Number: IRC1931

Sampled: 03/25/08
Received: 03/25/08

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8C28019 Extracted: 03/28/08											
Matrix Spike Analyzed: 03/28/2008 (8C28019-MS1)						Source: IRC2243-01					
Acetone	1980	1000	450	ug/l	2500	ND	79	20-150			
Chloroform	2810	100	33	ug/l	2500	255	102	65-135			
Surrogate: Dibromofluoromethane	*2360*			*ug/l*	*2500*		*94*	*80-120*			
Surrogate: Toluene-d8	*2380*			*ug/l*	*2500*		*95*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*2480*			*ug/l*	*2500*		*99*	*80-120*			
Matrix Spike Dup Analyzed: 03/28/2008 (8C28019-MSD1)						Source: IRC2243-01					
Acetone	2050	1000	450	ug/l	2500	ND	82	20-150	4	35	
Chloroform	2780	100	33	ug/l	2500	255	101	65-135	1	20	
Surrogate: Dibromofluoromethane	*2360*			*ug/l*	*2500*		*94*	*80-120*			
Surrogate: Toluene-d8	*2370*			*ug/l*	*2500*		*95*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*2420*			*ug/l*	*2500*		*97*	*80-120*			
Batch: 8C29007 Extracted: 03/29/08											
Blank Analyzed: 03/29/2008 (8C29007-BLK1)											
cis-1,2-Dichloroethene	ND	1.0	0.32	ug/l							
1,1-Dichloroethene	ND	1.0	0.42	ug/l							
Trichloroethene	ND	1.0	0.26	ug/l							
Surrogate: Dibromofluoromethane	*23.3*			*ug/l*	*25.0*		*93*	*80-120*			
Surrogate: Toluene-d8	*23.3*			*ug/l*	*25.0*		*93*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*23.4*			*ug/l*	*25.0*		*94*	*80-120*			
LCS Analyzed: 03/29/2008 (8C29007-BS1)											
cis-1,2-Dichloroethene	22.9	1.0	0.32	ug/l	25.0		92	70-125			
1,1-Dichloroethene	20.7	1.0	0.42	ug/l	25.0		83	70-125			
Trichloroethene	25.6	1.0	0.26	ug/l	25.0		102	70-125			
Surrogate: Dibromofluoromethane	*23.9*			*ug/l*	*25.0*		*96*	*80-120*			
Surrogate: Toluene-d8	*23.7*			*ug/l*	*25.0*		*95*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*25.8*			*ug/l*	*25.0*		*103*	*80-120*			

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Avocet Environmental Inc.
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Attention: Michael Rendina

Project ID: Boeing C-6 Torrance (02/26/08)
1155.006
Report Number: IRC1931

Sampled: 03/25/08
Received: 03/25/08

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8C29007 Extracted: 03/29/08											
Matrix Spike Analyzed: 03/29/2008 (8C29007-MS1)						Source: IRC2269-14					
cis-1,2-Dichloroethene	22.8	1.0	0.32	ug/l	25.0	ND	91	65-130			
1,1-Dichloroethene	19.9	1.0	0.42	ug/l	25.0	ND	80	60-130			
Trichloroethene	26.3	1.0	0.26	ug/l	25.0	ND	105	65-125			
Surrogate: Dibromofluoromethane	*23.6*			*ug/l*	*25.0*		*94*	*80-120*			
Surrogate: Toluene-d8	*23.8*			*ug/l*	*25.0*		*95*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*26.0*			*ug/l*	*25.0*		*104*	*80-120*			
Matrix Spike Dup Analyzed: 03/29/2008 (8C29007-MSD1)						Source: IRC2269-14					
cis-1,2-Dichloroethene	24.1	1.0	0.32	ug/l	25.0	ND	96	65-130	6	20	
1,1-Dichloroethene	22.0	1.0	0.42	ug/l	25.0	ND	88	60-130	10	20	
Trichloroethene	27.0	1.0	0.26	ug/l	25.0	ND	108	65-125	3	20	
Surrogate: Dibromofluoromethane	*23.0*			*ug/l*	*25.0*		*92*	*80-120*			
Surrogate: Toluene-d8	*23.4*			*ug/l*	*25.0*		*94*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*25.5*			*ug/l*	*25.0*		*102*	*80-120*			
Batch: 8C31024 Extracted: 03/31/08											
Blank Analyzed: 03/31/2008 (8C31024-BLK1)											
Acetone	ND	10	4.5	ug/l							
tert-Amyl Methyl Ether (TAME)	ND	2.0	0.33	ug/l							
Benzene	ND	0.50	0.28	ug/l							
Bromobenzene	ND	1.0	0.27	ug/l							
Bromochloromethane	ND	1.0	0.40	ug/l							
Bromodichloromethane	ND	1.0	0.30	ug/l							
Bromoform	ND	1.0	0.40	ug/l							
Bromomethane	ND	1.0	0.42	ug/l							
tert-Butanol (TBA)	ND	25	6.5	ug/l							
2-Butanone (MEK)	ND	5.0	4.7	ug/l							
tert-Butylbenzene	ND	1.0	0.22	ug/l							
n-Butylbenzene	ND	1.0	0.37	ug/l							
sec-Butylbenzene	ND	1.0	0.25	ug/l							
Carbon Disulfide	ND	1.0	0.48	ug/l							
Carbon tetrachloride	ND	0.50	0.28	ug/l							
Chlorobenzene	ND	1.0	0.36	ug/l							
Chloroethane	ND	2.0	0.40	ug/l							
Chloroform	ND	1.0	0.33	ug/l							

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BOE-C6-0188409

Avocet Environmental Inc.
16 Technology Drive, Suite 154
Irvine, CA 92618
Attention: Michael Rendina

Project ID: Boeing C-6 Torrance (02/26/08)
1155.006
Report Number: IRC1931

Sampled: 03/25/08
Received: 03/25/08

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8C31024 Extracted: 03/31/08											
Blank Analyzed: 03/31/2008 (8C31024-BLK1)											
Chloromethane	ND	2.0	0.40	ug/l							
2-Chlorotoluene	ND	1.0	0.28	ug/l							
4-Chlorotoluene	ND	1.0	0.29	ug/l							
1,2-Dibromo-3-chloropropane	ND	2.0	0.97	ug/l							
Dibromochloromethane	ND	1.0	0.40	ug/l							
1,2-Dibromoethane (EDB)	ND	1.0	0.40	ug/l							
1,3-Dichlorobenzene	ND	1.0	0.35	ug/l							
1,4-Dichlorobenzene	ND	1.0	0.37	ug/l							
1,2-Dichlorobenzene	ND	1.0	0.32	ug/l							
Dichlorodifluoromethane	ND	1.0	0.26	ug/l							
1,1-Dichloroethane	ND	1.0	0.40	ug/l							
1,2-Dichloroethane	ND	0.50	0.28	ug/l							
cis-1,2-Dichloroethene	ND	1.0	0.32	ug/l							
1,1-Dichloroethene	ND	1.0	0.42	ug/l							
trans-1,2-Dichloroethene	ND	1.0	0.30	ug/l							
2,2-Dichloropropane	ND	1.0	0.34	ug/l							
1,2-Dichloropropane	ND	1.0	0.35	ug/l							
cis-1,3-Dichloropropene	ND	0.50	0.22	ug/l							
1,1-Dichloropropene	ND	1.0	0.28	ug/l							
trans-1,3-Dichloropropene	ND	0.50	0.32	ug/l							
Di-isopropyl Ether (DIPE)	ND	2.0	0.25	ug/l							
Ethylbenzene	ND	1.0	0.25	ug/l							
Ethyl tert-Butyl Ether (ETBE)	ND	2.0	0.28	ug/l							
Hexachlorobutadiene	ND	1.0	0.38	ug/l							
2-Hexanone	ND	6.0	2.6	ug/l							
Iodomethane	ND	2.0	1.0	ug/l							
Isopropylbenzene	ND	1.0	0.25	ug/l							
p-Isopropyltoluene	ND	1.0	0.28	ug/l							
Methyl-tert-butyl Ether (MTBE)	ND	1.0	0.32	ug/l							
Methylene chloride	ND	1.0	0.95	ug/l							
4-Methyl-2-pentanone (MIBK)	ND	5.0	3.5	ug/l							
n-Propylbenzene	ND	1.0	0.27	ug/l							
Styrene	ND	1.0	0.20	ug/l							
1,1,1,2-Tetrachloroethane	ND	1.0	0.27	ug/l							
1,1,2,2-Tetrachloroethane	ND	1.0	0.30	ug/l							

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Project Manager

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Sampled: 03/25/08
Received: 03/25/08

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8C31024 Extracted: 03/31/08											
Blank Analyzed: 03/31/2008 (8C31024-BLK1)											
Tetrachloroethene	ND	1.0	0.32	ug/l							
Tetrahydrofuran (THF)	ND	10	3.5	ug/l							
Toluene	ND	1.0	0.36	ug/l							
1,2,3-Trichlorobenzene	ND	1.0	0.30	ug/l							
1,2,4-Trichlorobenzene	ND	1.0	0.48	ug/l							
1,1,1-Trichloroethane	ND	1.0	0.30	ug/l							
1,1,2-Trichloroethane	ND	1.0	0.30	ug/l							
Trichloroethene	ND	1.0	0.26	ug/l							
Trichlorofluoromethane	ND	2.0	0.34	ug/l							
1,2,3-Trichloropropane	ND	1.0	0.40	ug/l							
1,3,5-Trimethylbenzene	ND	1.0	0.26	ug/l							
1,2,4-Trimethylbenzene	ND	1.0	0.23	ug/l							
Vinyl acetate	ND	6.0	1.0	ug/l							
Vinyl chloride	ND	0.50	0.40	ug/l							
o-Xylene	ND	0.50	0.30	ug/l							
Xylenes, Total	ND	1.0	0.90	ug/l							
m,p-Xylenes	ND	1.0	0.60	ug/l							
Surrogate: Dibromofluoromethane	*25.0*			*ug/l*	*25.0*		*100*	*80-120*			
Surrogate: Toluene-d8	*24.3*			*ug/l*	*25.0*		*97*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*23.2*			*ug/l*	*25.0*		*93*	*80-120*			
LCS Analyzed: 03/31/2008 (8C31024-BS1)											
Acetone	22.3	10	4.5	ug/l	25.0		89	30-140			
tert-Amyl Methyl Ether (TAME)	23.6	2.0	0.33	ug/l	25.0		94	60-135			
Benzene	24.6	0.50	0.28	ug/l	25.0		98	70-120			
Bromobenzene	27.3	1.0	0.27	ug/l	25.0		109	75-120			
Bromochloromethane	26.2	1.0	0.40	ug/l	25.0		105	70-130			
Bromodichloromethane	27.9	1.0	0.30	ug/l	25.0		112	70-135			
Bromoform	21.8	1.0	0.40	ug/l	25.0		87	55-130			
Bromomethane	29.1	1.0	0.42	ug/l	25.0		117	65-140			
tert-Butanol (TBA)	140	25	6.5	ug/l	125		112	70-135			
2-Butanone (MEK)	25.2	5.0	4.7	ug/l	25.0		101	40-140			
tert-Butylbenzene	26.6	1.0	0.22	ug/l	25.0		106	70-125			
n-Butylbenzene	25.3	1.0	0.37	ug/l	25.0		101	70-130			
sec-Butylbenzene	25.0	1.0	0.25	ug/l	25.0		100	70-125			
Carbon Disulfide	25.0	1.0	0.48	ug/l	25.0		100	50-130			

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BOE-C6-0188410

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
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Avocet Environmental Inc.
16 Technology Drive, Suite 154
Irvine, CA 92618
Attention: Michael Rendina

Project ID: Boeing C-6 Torrance (02/26/08)
1155.006
Report Number: IRC1931

Sampled: 03/25/08
Received: 03/25/08

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8C31024 Extracted: 03/31/08											
LCS Analyzed: 03/31/2008 (8C31024-BS1)											
Carbon tetrachloride	24.3	0.50	0.28	ug/l	25.0		97	65-140			
Chlorobenzene	26.4	1.0	0.36	ug/l	25.0		106	75-120			
Chloroethane	26.9	2.0	0.40	ug/l	25.0		107	60-140			
Chloroform	27.2	1.0	0.33	ug/l	25.0		109	70-130			
Chloromethane	24.8	2.0	0.40	ug/l	25.0		99	50-140			
2-Chlorotoluene	27.1	1.0	0.28	ug/l	25.0		108	70-125			
4-Chlorotoluene	27.4	1.0	0.29	ug/l	25.0		110	75-125			
1,2-Dibromo-3-chloropropane	25.6	2.0	0.97	ug/l	25.0		102	50-135			
Dibromochloromethane	28.5	1.0	0.40	ug/l	25.0		114	70-140			
1,2-Dibromoethane (EDB)	26.8	1.0	0.40	ug/l	25.0		107	75-125			
1,3-Dichlorobenzene	26.3	1.0	0.35	ug/l	25.0		105	75-120			
1,4-Dichlorobenzene	24.2	1.0	0.37	ug/l	25.0		97	75-120			
1,2-Dichlorobenzene	26.4	1.0	0.32	ug/l	25.0		106	75-120			
Dichlorodifluoromethane	29.8	1.0	0.26	ug/l	25.0		119	35-155			
1,1-Dichloroethane	24.1	1.0	0.40	ug/l	25.0		96	70-125			
1,2-Dichloroethane	27.4	0.50	0.28	ug/l	25.0		110	60-140			
cis-1,2-Dichloroethene	24.2	1.0	0.32	ug/l	25.0		97	70-125			
1,1-Dichloroethene	21.0	1.0	0.42	ug/l	25.0		84	70-125			
trans-1,2-Dichloroethene	25.7	1.0	0.30	ug/l	25.0		103	70-125			
2,2-Dichloropropane	26.4	1.0	0.34	ug/l	25.0		106	65-140			
1,2-Dichloropropane	24.2	1.0	0.35	ug/l	25.0		97	70-125			
cis-1,3-Dichloropropene	22.6	0.50	0.22	ug/l	25.0		91	75-125			
1,1-Dichloropropene	25.6	1.0	0.28	ug/l	25.0		102	75-130			
trans-1,3-Dichloropropene	23.2	0.50	0.32	ug/l	25.0		93	70-125			
Di-isopropyl Ether (DIPE)	23.6	2.0	0.25	ug/l	25.0		94	60-135			
Ethylbenzene	27.1	1.0	0.25	ug/l	25.0		108	75-125			
Ethyl tert-Butyl Ether (ETBE)	23.9	2.0	0.28	ug/l	25.0		96	65-135			
Hexachlorobutadiene	26.3	1.0	0.38	ug/l	25.0		105	65-135			
2-Hexanone	22.4	6.0	2.6	ug/l	25.0		89	45-140			
Isopropylbenzene	30.2	1.0	0.25	ug/l	25.0		121	75-130			
p-Isopropyltoluene	24.9	1.0	0.28	ug/l	25.0		100	75-125			
Methyl-tert-butyl Ether (MTBE)	25.0	1.0	0.32	ug/l	25.0		100	60-135			
Methylene chloride	23.6	1.0	0.95	ug/l	25.0		94	55-130			
4-Methyl-2-pentanone (MIBK)	24.2	5.0	3.5	ug/l	25.0		97	45-140			
n-Propylbenzene	26.1	1.0	0.27	ug/l	25.0		105	75-130			

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Project Manager

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Avocet Environmental Inc.
16 Technology Drive, Suite 154
Irvine, CA 92618
Attention: Michael Rendina

Project ID: Boeing C-6 Torrance (02/26/08)
1155.006
Report Number: IRC1931

Sampled: 03/25/08
Received: 03/25/08

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8C31024 Extracted: 03/31/08											
LCS Analyzed: 03/31/2008 (8C31024-BS1)											
Styrene	25.7	1.0	0.20	ug/l	25.0		103	75-130			
1,1,1,2-Tetrachloroethane	24.6	1.0	0.27	ug/l	25.0		98	70-130			
1,1,2,2-Tetrachloroethane	26.5	1.0	0.30	ug/l	25.0		106	55-130			
Tetrachloroethene	27.1	1.0	0.32	ug/l	25.0		108	70-125			
Toluene	25.6	1.0	0.36	ug/l	25.0		103	70-120			
1,2,3-Trichlorobenzene	26.0	1.0	0.30	ug/l	25.0		104	65-125			
1,2,4-Trichlorobenzene	26.6	1.0	0.48	ug/l	25.0		107	70-135			
1,1,1-Trichloroethane	26.8	1.0	0.30	ug/l	25.0		107	65-135			
1,1,2-Trichloroethane	26.0	1.0	0.30	ug/l	25.0		104	70-125			
Trichloroethene	25.7	1.0	0.26	ug/l	25.0		103	70-125			
Trichlorofluoromethane	34.7	2.0	0.34	ug/l	25.0		139	65-145			
1,2,3-Trichloropropane	25.6	1.0	0.40	ug/l	25.0		102	60-130			
1,3,5-Trimethylbenzene	26.1	1.0	0.26	ug/l	25.0		104	75-125			
1,2,4-Trimethylbenzene	26.1	1.0	0.23	ug/l	25.0		104	75-125			
Vinyl acetate	22.5	6.0	1.0	ug/l	25.0		90	45-145			
Vinyl chloride	24.6	0.50	0.40	ug/l	25.0		98	55-135			
o-Xylene	26.9	0.50	0.30	ug/l	25.0		107	75-125			
m,p-Xylenes	51.8	1.0	0.60	ug/l	50.0		104	75-125			
Surrogate: Dibromofluoromethane	*24.6*			*ug/l*	*25.0*		*99*	*80-120*			
Surrogate: Toluene-d8	*25.0*			*ug/l*	*25.0*		*100*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*23.9*			*ug/l*	*25.0*		*96*	*80-120*			
Matrix Spike Analyzed: 03/31/2008 (8C31024-MS1)						**Source: IRC2081-01**					
Acetone	16.8	10	4.5	ug/l	25.0	ND	67	20-150			
tert-Amyl Methyl Ether (TAME)	23.7	2.0	0.33	ug/l	25.0	ND	95	60-140			
Benzene	24.5	0.50	0.28	ug/l	25.0	ND	98	65-125			
Bromobenzene	26.5	1.0	0.27	ug/l	25.0	ND	106	70-125			
Bromochloromethane	25.2	1.0	0.40	ug/l	25.0	ND	101	65-135			
Bromodichloromethane	27.0	1.0	0.30	ug/l	25.0	ND	108	70-135			
Bromoform	19.6	1.0	0.40	ug/l	25.0	ND	78	55-135			
Bromomethane	26.6	1.0	0.42	ug/l	25.0	ND	106	55-145			
tert-Butanol (TBA)	136	25	6.5	ug/l	125	ND	109	65-140			
2-Butanone (MEK)	19.9	5.0	4.7	ug/l	25.0	ND	80	30-145			
tert-Butylbenzene	26.5	1.0	0.22	ug/l	25.0	ND	106	65-130			
n-Butylbenzene	25.4	1.0	0.37	ug/l	25.0	ND	102	65-135			
sec-Butylbenzene	25.4	1.0	0.25	ug/l	25.0	ND	102	70-125			

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Project Manager

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BOE-C6-0188411

Avocet Environmental Inc.
16 Technology Drive, Suite 154
Irvine, CA 92618
Attention: Michael Rendina

Project ID: Boeing C-6 Torrance (02/26/08)
1155.006
Report Number: IRC1931

Sampled: 03/25/08
Received: 03/25/08

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8C31024 Extracted: 03/31/08											
Matrix Spike Analyzed: 03/31/2008 (8C31024-MS1)						**Source: IRC2081-01**					
Carbon Disulfide	25.6	1.0	0.48	ug/l	25.0	ND	103	40-140			
Carbon tetrachloride	24.3	0.50	0.28	ug/l	25.0	ND	97	65-140			
Chlorobenzene	25.8	1.0	0.36	ug/l	25.0	ND	103	75-125			
Chloroethane	25.8	2.0	0.40	ug/l	25.0	ND	103	55-140			
Chloroform	27.7	1.0	0.33	ug/l	25.0	ND	111	65-135			
Chloromethane	22.0	2.0	0.40	ug/l	25.0	ND	88	45-145			
2-Chlorotoluene	26.7	1.0	0.28	ug/l	25.0	ND	107	65-135			
4-Chlorotoluene	27.3	1.0	0.29	ug/l	25.0	ND	109	70-135			
1,2-Dibromo-3-chloropropane	22.5	2.0	0.97	ug/l	25.0	ND	90	45-145			
Dibromochloromethane	25.7	1.0	0.40	ug/l	25.0	ND	103	65-140			
1,2-Dibromoethane (EDB)	23.8	1.0	0.40	ug/l	25.0	ND	95	70-130			
1,3-Dichlorobenzene	27.7	1.0	0.35	ug/l	25.0	ND	111	75-125			
1,4-Dichlorobenzene	24.3	1.0	0.37	ug/l	25.0	ND	97	75-125			
1,2-Dichlorobenzene	26.2	1.0	0.32	ug/l	25.0	ND	105	75-125			
Dichlorodifluoromethane	26.2	1.0	0.26	ug/l	25.0	ND	105	25-155			
1,1-Dichloroethane	23.7	1.0	0.40	ug/l	25.0	ND	95	65-130			
1,2-Dichloroethane	26.4	0.50	0.28	ug/l	25.0	ND	106	60-140			
cis-1,2-Dichloroethene	24.7	1.0	0.32	ug/l	25.0	0.580	97	65-130			
1,1-Dichloroethene	21.9	1.0	0.42	ug/l	25.0	1.96	80	60-130			
trans-1,2-Dichloroethene	25.3	1.0	0.30	ug/l	25.0	ND	101	65-130			
2,2-Dichloropropane	27.2	1.0	0.34	ug/l	25.0	ND	109	60-145			
1,2-Dichloropropane	23.1	1.0	0.35	ug/l	25.0	ND	92	65-130			
cis-1,3-Dichloropropene	22.5	0.50	0.22	ug/l	25.0	ND	90	70-130			
1,1-Dichloropropene	25.9	1.0	0.28	ug/l	25.0	ND	104	70-135			
trans-1,3-Dichloropropene	22.5	0.50	0.32	ug/l	25.0	ND	90	65-135			
Di-isopropyl Ether (DIPE)	23.1	2.0	0.25	ug/l	25.0	ND	92	60-140			
Ethylbenzene	26.4	1.0	0.25	ug/l	25.0	ND	106	65-130			
Ethyl tert-Butyl Ether (ETBE)	23.1	2.0	0.28	ug/l	25.0	ND	92	60-135			
Hexachlorobutadiene	27.0	1.0	0.38	ug/l	25.0	ND	108	60-135			
2-Hexanone	19.0	6.0	2.6	ug/l	25.0	ND	76	25-140			
Isopropylbenzene	29.5	1.0	0.25	ug/l	25.0	ND	118	70-135			
p-Isopropyltoluene	25.7	1.0	0.28	ug/l	25.0	ND	103	65-130			
Methyl-tert-butyl Ether (MTBE)	23.4	1.0	0.32	ug/l	25.0	ND	93	55-145			
Methylene chloride	22.8	1.0	0.95	ug/l	25.0	ND	91	50-135			
4-Methyl-2-pentanone (MIBK)	20.7	5.0	3.5	ug/l	25.0	ND	83	40-140			

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Project Manager

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Avocet Environmental Inc.
16 Technology Drive, Suite 154
Irvine, CA 92618
Attention: Michael Rendina

Project ID: Boeing C-6 Torrance (02/26/08)
1155.006
Report Number: IRC1931

Sampled: 03/25/08
Received: 03/25/08

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8C31024 Extracted: 03/31/08											
Matrix Spike Analyzed: 03/31/2008 (8C31024-MS1)						**Source: IRC2081-01**					
n-Propylbenzene	26.9	1.0	0.27	ug/l	25.0	ND	107	70-135			
Styrene	23.7	1.0	0.20	ug/l	25.0	ND	95	50-145			
1,1,1,2-Tetrachloroethane	23.8	1.0	0.27	ug/l	25.0	ND	95	65-140			
1,1,2,2-Tetrachloroethane	24.0	1.0	0.30	ug/l	25.0	ND	96	55-135			
Tetrachloroethene	25.7	1.0	0.32	ug/l	25.0	ND	103	65-130			
Toluene	25.6	1.0	0.36	ug/l	25.0	ND	102	70-125			
1,2,3-Trichlorobenzene	26.1	1.0	0.30	ug/l	25.0	ND	104	60-135			
1,2,4-Trichlorobenzene	27.0	1.0	0.48	ug/l	25.0	ND	108	65-135			
1,1,1-Trichloroethane	27.4	1.0	0.30	ug/l	25.0	ND	110	65-140			
1,1,2-Trichloroethane	24.8	1.0	0.30	ug/l	25.0	ND	99	65-130			
Trichloroethene	26.7	1.0	0.26	ug/l	25.0	1.61	100	65-125			
Trichlorofluoromethane	32.3	2.0	0.34	ug/l	25.0	ND	129	60-145			
1,2,3-Trichloropropane	22.6	1.0	0.40	ug/l	25.0	ND	90	55-135			
1,3,5-Trimethylbenzene	26.2	1.0	0.26	ug/l	25.0	ND	105	70-130			
1,2,4-Trimethylbenzene	25.9	1.0	0.23	ug/l	25.0	ND	104	55-135			
Vinyl acetate	19.6	6.0	1.0	ug/l	25.0	ND	79	40-150			
Vinyl chloride	25.0	0.50	0.40	ug/l	25.0	ND	100	45-140			
o-Xylene	26.0	0.50	0.30	ug/l	25.0	ND	104	65-125			
m,p-Xylenes	51.0	1.0	0.60	ug/l	50.0	ND	102	65-130			
Surrogate: Dibromofluoromethane	*25.0*			*ug/l*	*25.0*		*100*	*80-120*			
Surrogate: Toluene-d8	*25.2*			*ug/l*	*25.0*		*101*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*23.4*			*ug/l*	*25.0*		*94*	*80-120*			
Matrix Spike Dup Analyzed: 03/31/2008 (8C31024-MSD1)						**Source: IRC2081-01**					
Acetone	19.7	10	4.5	ug/l	25.0	ND	79	20-150	16	35	
tert-Amyl Methyl Ether (TAME)	24.0	2.0	0.33	ug/l	25.0	ND	96	60-140	1	30	
Benzene	24.5	0.50	0.28	ug/l	25.0	ND	98	65-125	0	20	
Bromobenzene	26.4	1.0	0.27	ug/l	25.0	ND	106	70-125	0	20	
Bromochloromethane	25.6	1.0	0.40	ug/l	25.0	ND	102	65-135	2	25	
Bromodichloromethane	28.0	1.0	0.30	ug/l	25.0	ND	112	70-135	4	20	
Bromoform	20.6	1.0	0.40	ug/l	25.0	ND	82	55-135	5	25	
Bromomethane	26.5	1.0	0.42	ug/l	25.0	ND	106	55-145	0	25	
tert-Butanol (TBA)	137	25	6.5	ug/l	125	ND	110	65-140	1	25	
2-Butanone (MEK)	21.8	5.0	4.7	ug/l	25.0	ND	87	30-145	9	40	
tert-Butylbenzene	25.4	1.0	0.22	ug/l	25.0	ND	101	65-130	4	20	
n-Butylbenzene	24.8	1.0	0.37	ug/l	25.0	ND	99	65-135	3	20	

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BOE-C6-0188412

Avocet Environmental Inc.
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Irvine, CA 92618
Attention: Michael Rendina

Project ID: Boeing C-6 Torrance (02/26/08)
1155.006
Report Number: IRC1931

Sampled: 03/25/08
Received: 03/25/08

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8C31024 Extracted: 03/31/08											
Matrix Spike Dup Analyzed: 03/31/2008 (8C31024-MSD1)						**Source: IRC2081-01**					
sec-Butylbenzene	24.4	1.0	0.25	ug/l	25.0	ND	97	70-125	4	20	
Carbon Disulfide	26.3	1.0	0.48	ug/l	25.0	ND	105	40-140	3	20	
Carbon tetrachloride	25.1	0.50	0.28	ug/l	25.0	ND	100	65-140	3	25	
Chlorobenzene	26.2	1.0	0.36	ug/l	25.0	ND	105	75-125	1	20	
Chloroethane	26.0	2.0	0.40	ug/l	25.0	ND	104	55-140	1	25	
Chloroform	27.4	1.0	0.33	ug/l	25.0	ND	109	65-135	1	20	
Chloromethane	23.0	2.0	0.40	ug/l	25.0	ND	92	45-145	4	25	
2-Chlorotoluene	25.8	1.0	0.28	ug/l	25.0	ND	103	65-135	4	20	
4-Chlorotoluene	26.6	1.0	0.29	ug/l	25.0	ND	106	70-135	3	20	
1,2-Dibromo-3-chloropropane	24.1	2.0	0.97	ug/l	25.0	ND	96	45-145	7	30	
Dibromochloromethane	26.0	1.0	0.40	ug/l	25.0	ND	104	65-140	1	25	
1,2-Dibromoethane (EDB)	24.5	1.0	0.40	ug/l	25.0	ND	98	70-130	3	25	
1,3-Dichlorobenzene	27.0	1.0	0.35	ug/l	25.0	ND	108	75-125	2	20	
1,4-Dichlorobenzene	23.7	1.0	0.37	ug/l	25.0	ND	95	75-125	3	20	
1,2-Dichlorobenzene	25.7	1.0	0.32	ug/l	25.0	ND	103	75-125	2	20	
Dichlorodifluoromethane	25.5	1.0	0.26	ug/l	25.0	ND	102	25-155	3	30	
1,1-Dichloroethane	24.0	1.0	0.40	ug/l	25.0	ND	96	65-130	1	20	
1,2-Dichloroethane	26.3	0.50	0.28	ug/l	25.0	ND	105	60-140	1	20	
cis-1,2-Dichloroethene	25.6	1.0	0.32	ug/l	25.0	0.580	100	65-130	4	20	
1,1-Dichloroethene	23.3	1.0	0.42	ug/l	25.0	1.96	85	60-130	6	20	
trans-1,2-Dichloroethene	26.0	1.0	0.30	ug/l	25.0	ND	104	65-130	3	20	
2,2-Dichloropropane	27.2	1.0	0.34	ug/l	25.0	ND	109	60-145	0	25	
1,2-Dichloropropane	23.6	1.0	0.35	ug/l	25.0	ND	95	65-130	2	20	
cis-1,3-Dichloropropene	22.7	0.50	0.22	ug/l	25.0	ND	91	70-130	1	20	
1,1-Dichloropropene	26.5	1.0	0.28	ug/l	25.0	ND	106	70-135	2	20	
trans-1,3-Dichloropropene	23.4	0.50	0.32	ug/l	25.0	ND	94	65-135	4	25	
Di-isopropyl Ether (DIPE)	23.2	2.0	0.25	ug/l	25.0	ND	93	60-140	1	25	
Ethylbenzene	26.4	1.0	0.25	ug/l	25.0	ND	106	65-130	0	20	
Ethyl tert-Butyl Ether (ETBE)	23.8	2.0	0.28	ug/l	25.0	ND	95	60-135	3	25	
Hexachlorobutadiene	26.2	1.0	0.38	ug/l	25.0	ND	105	60-135	3	20	
2-Hexanone	19.2	6.0	2.6	ug/l	25.0	ND	77	25-140	2	35	
Isopropylbenzene	29.5	1.0	0.25	ug/l	25.0	ND	118	70-135	0	20	
p-Isopropyltoluene	24.5	1.0	0.28	ug/l	25.0	ND	98	65-130	4	20	
Methyl-tert-butyl Ether (MTBE)	24.2	1.0	0.32	ug/l	25.0	ND	97	55-145	4	25	
Methylene chloride	23.5	1.0	0.95	ug/l	25.0	ND	94	50-135	3	20	

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Avocet Environmental Inc.
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Project ID: Boeing C-6 Torrance (02/26/08)
1155.006
Report Number: IRC1931

Sampled: 03/25/08
Received: 03/25/08

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8C31024 Extracted: 03/31/08											
Matrix Spike Dup Analyzed: 03/31/2008 (8C31024-MSD1)						**Source: IRC2081-01**					
4-Methyl-2-pentanone (MIBK)	21.1	5.0	3.5	ug/l	25.0	ND	84	40-140	2	35	
n-Propylbenzene	25.6	1.0	0.27	ug/l	25.0	ND	103	70-135	5	20	
Styrene	24.0	1.0	0.20	ug/l	25.0	ND	96	50-145	1	30	
1,1,1,2-Tetrachloroethane	23.7	1.0	0.27	ug/l	25.0	ND	95	65-140	0	20	
1,1,2,2-Tetrachloroethane	24.0	1.0	0.30	ug/l	25.0	ND	96	55-135	0	30	
Tetrachloroethene	26.7	1.0	0.32	ug/l	25.0	ND	107	65-130	4	20	
Toluene	25.8	1.0	0.36	ug/l	25.0	ND	103	70-125	1	20	
1,2,3-Trichlorobenzene	26.1	1.0	0.30	ug/l	25.0	ND	104	60-135	0	20	
1,2,4-Trichlorobenzene	26.8	1.0	0.48	ug/l	25.0	ND	107	65-135	1	20	
1,1,1-Trichloroethane	27.5	1.0	0.30	ug/l	25.0	ND	110	65-140	0	20	
1,1,2-Trichloroethane	25.2	1.0	0.30	ug/l	25.0	ND	101	65-130	1	25	
Trichloroethene	27.1	1.0	0.26	ug/l	25.0	1.61	102	65-125	2	20	
Trichlorofluoromethane	33.2	2.0	0.34	ug/l	25.0	ND	133	60-145	3	25	
1,2,3-Trichloropropane	22.5	1.0	0.40	ug/l	25.0	ND	90	55-135	0	30	
1,3,5-Trimethylbenzene	25.6	1.0	0.26	ug/l	25.0	ND	102	70-130	2	20	
1,2,4-Trimethylbenzene	23.8	1.0	0.23	ug/l	25.0	ND	95	55-135	9	25	
Vinyl acetate	20.3	6.0	1.0	ug/l	25.0	ND	81	40-150	3	30	
Vinyl chloride	25.0	0.50	0.40	ug/l	25.0	ND	100	45-140	0	30	
o-Xylene	26.7	0.50	0.30	ug/l	25.0	ND	107	65-125	3	20	
m,p-Xylenes	51.9	1.0	0.60	ug/l	50.0	ND	104	65-130	2	25	
Surrogate: Dibromofluoromethane	*25.1*			*ug/l*	*25.0*		*100*	*80-120*			
Surrogate: Toluene-d8	*24.7*			*ug/l*	*25.0*		*99*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*24.1*			*ug/l*	*25.0*		*96*	*80-120*			
Batch: 8D01007 Extracted: 04/01/08											
Blank Analyzed: 04/01/2008 (8D01007-BLK1)											
1,1-Dichloroethene	ND	1.0	0.42	ug/l							
Surrogate: Dibromofluoromethane	*23.8*			*ug/l*	*25.0*		*95*	*80-120*			
Surrogate: Toluene-d8	*25.4*			*ug/l*	*25.0*		*102*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*23.2*			*ug/l*	*25.0*		*93*	*80-120*			

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BOE-C6-0188413

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16 Technology Drive, Suite 154
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Project ID: Boeing C-6 Torrance (02/26/08)
1155.006
Report Number: IRC1931

Sampled: 03/25/08
Received: 03/25/08

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8D01007 Extracted: 04/01/08											
LCS Analyzed: 04/01/2008 (8D01007-BS1)											
1,1-Dichloroethene	21.2	1.0	0.42	ug/l	25.0		85	70-125			
Surrogate: Dibromofluoromethane	*24.6*			*ug/l*	*25.0*		*98*	*80-120*			
Surrogate: Toluene-d8	*24.7*			*ug/l*	*25.0*		*99*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*23.8*			*ug/l*	*25.0*		*95*	*80-120*			
Matrix Spike Analyzed: 04/01/2008 (8D01007-MS1)						**Source: IRC2264-06**					
1,1-Dichloroethene	23.7	1.0	0.42	ug/l	25.0	3.66	80	60-130			
Surrogate: Dibromofluoromethane	*25.2*			*ug/l*	*25.0*		*101*	*80-120*			
Surrogate: Toluene-d8	*25.6*			*ug/l*	*25.0*		*103*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*24.6*			*ug/l*	*25.0*		*99*	*80-120*			
Matrix Spike Dup Analyzed: 04/01/2008 (8D01007-MSD1)						**Source: IRC2264-06**					
1,1-Dichloroethene	24.0	1.0	0.42	ug/l	25.0	3.66	81	60-130	1	20	
Surrogate: Dibromofluoromethane	*25.2*			*ug/l*	*25.0*		*101*	*80-120*			
Surrogate: Toluene-d8	*25.3*			*ug/l*	*25.0*		*101*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*23.7*			*ug/l*	*25.0*		*95*	*80-120*			
Batch: 8D01019 Extracted: 04/01/08											
Blank Analyzed: 04/01/2008 (8D01019-BLK1)											
1,1-Dichloroethene	ND	1.0	0.42	ug/l							
Surrogate: Dibromofluoromethane	*22.8*			*ug/l*	*25.0*		*91*	*80-120*			
Surrogate: Toluene-d8	*24.6*			*ug/l*	*25.0*		*98*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*24.0*			*ug/l*	*25.0*		*96*	*80-120*			
LCS Analyzed: 04/01/2008 (8D01019-BS1)											
1,1-Dichloroethene	20.5	1.0	0.42	ug/l	25.0		82	70-125			
Surrogate: Dibromofluoromethane	*22.9*			*ug/l*	*25.0*		*92*	*80-120*			
Surrogate: Toluene-d8	*24.5*			*ug/l*	*25.0*		*98*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*23.6*			*ug/l*	*25.0*		*94*	*80-120*			

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Project ID: Boeing C-6 Torrance (02/26/08)
1155.006
Report Number: IRC1931

Sampled: 03/25/08
Received: 03/25/08

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8D01019 Extracted: 04/01/08											
Matrix Spike Analyzed: 04/01/2008 (8D01019-MS1)						**Source: IRC1527-05**					
1,1-Dichloroethene	20.4	1.0	0.42	ug/l	25.0	ND	82	60-130			
Surrogate: Dibromofluoromethane	*22.0*			*ug/l*	*25.0*		*88*	*80-120*			
Surrogate: Toluene-d8	*23.9*			*ug/l*	*25.0*		*96*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*24.1*			*ug/l*	*25.0*		*97*	*80-120*			
Matrix Spike Dup Analyzed: 04/01/2008 (8D01019-MSD1)						**Source: IRC1527-05**					
1,1-Dichloroethene	21.6	1.0	0.42	ug/l	25.0	ND	86	60-130	6	20	
Surrogate: Dibromofluoromethane	*23.0*			*ug/l*	*25.0*		*92*	*80-120*			
Surrogate: Toluene-d8	*24.2*			*ug/l*	*25.0*		*97*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*24.6*			*ug/l*	*25.0*		*98*	*80-120*			

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BOE-C6-0188414

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Project ID: Boeing C-6 Torrance (02/26/08)
1155.006
Report Number: IRC1931

Sampled: 03/25/08
Received: 03/25/08

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8C25049 Extracted: 03/25/08											
Blank Analyzed: 03/25/2008 (8C25049-BLK1)											
Chloride	ND	0.50	0.25	mg/l							
Nitrate-NO3	ND	0.50	0.25	mg/l							
Nitrite-NO2	ND	0.50	0.30	mg/l							
Sulfate	ND	0.50	0.20	mg/l							
LCS Analyzed: 03/25/2008 (8C25049-BS1)											
Chloride	5.05	0.50	0.25	mg/l	5.00		101	90-110			
Nitrate-NO3	5.12	0.50	0.25	mg/l	5.00		102	90-110			
Nitrite-NO2	5.28	0.50	0.30	mg/l	5.00		106	90-110			
Sulfate	10.1	0.50	0.20	mg/l	10.0		101	90-110			
Matrix Spike Analyzed: 03/25/2008 (8C25049-MS1)						**Source: IRC1905-01**					
Chloride	337	10	5.0	mg/l	50.0	301	72	80-120			*MHA*
Nitrate-NO3	49.1	10	5.0	mg/l	50.0	0.511	97	80-120			
Nitrite-NO2	55.7	10	6.0	mg/l	50.0	ND	111	80-120			
Sulfate	642	10	4.0	mg/l	100	566	76	80-120			*MHA*
Matrix Spike Analyzed: 03/26/2008 (8C25049-MS2)						**Source: IRC1931-05**					
Chloride	282	10	5.0	mg/l	50.0	244	76	80-120			*MHA*
Nitrate-NO3	92.1	10	5.0	mg/l	50.0	41.9	100	80-120			
Nitrite-NO2	54.7	10	6.0	mg/l	50.0	ND	109	80-120			
Sulfate	203	10	4.0	mg/l	100	105	99	80-120			
Matrix Spike Dup Analyzed: 03/25/2008 (8C25049-MSD1)						**Source: IRC1905-01**					
Chloride	330	10	5.0	mg/l	50.0	301	59	80-120	2	20	*MHA*
Nitrate-NO3	48.2	10	5.0	mg/l	50.0	0.511	95	80-120	2	20	
Nitrite-NO2	54.6	10	6.0	mg/l	50.0	ND	109	80-120	2	20	
Sulfate	630	10	4.0	mg/l	100	566	64	80-120	2	20	*MHA*

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Project ID: Boeing C-6 Torrance (02/26/08)
1155.006
Report Number: IRC1931

Sampled: 03/25/08
Received: 03/25/08

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8C28056 Extracted: 03/28/08											
Blank Analyzed: 03/28/2008 (8C28056-BLK1)											
Alkalinity as CaCO3	ND	2.0	2.0	mg/l							
Duplicate Analyzed: 03/28/2008 (8C28056-DUP1)						**Source: IRC1931-02**					
Alkalinity as CaCO3	800	2.0	2.0	mg/l		798			0	20	
Reference Analyzed: 03/28/2008 (8C28056-SRM1)											
Alkalinity as CaCO3	268	2.0	2.0	mg/l	283		95	90-110			
Batch: 8C28077 Extracted: 03/28/08											
Blank Analyzed: 03/28/2008 (8C28077-BLK1)											
Total Dissolved Solids	ND	10	10	mg/l							
LCS Analyzed: 03/28/2008 (8C28077-BS1)											
Total Dissolved Solids	990	10	10	mg/l	1000		99	90-110			
Duplicate Analyzed: 03/28/2008 (8C28077-DUP1)						**Source: IRC1997-01**					
Total Dissolved Solids	628	10	10	mg/l		646			3	10	

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BOE-C6-0188415

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Project ID: Boeing C-6 Torrance (02/26/08)
1155.006
Report Number: IRC1931

Sampled: 03/25/08
Received: 03/25/08

METHOD BLANK/QC DATA

TOTAL ORGANIC CARBON (EPA 9060A MOD.)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8C31104 Extracted: 03/31/08											
Blank Analyzed: 03/31/2008 (8C31104-BLK1)											
Total Organic Carbon	ND	1.0	0.50	mg/l							
LCS Analyzed: 03/31/2008 (8C31104-BS1)											
Total Organic Carbon	9.57	1.0	0.50	mg/l	10.0		96	90-110			
Matrix Spike Analyzed: 03/31/2008 (8C31104-MS1)						**Source: IRC1731-23**					
Total Organic Carbon	7.55	1.0	0.50	mg/l	5.00	2.91	93	80-120			
Matrix Spike Dup Analyzed: 03/31/2008 (8C31104-MSD1)						**Source: IRC1731-23**					
Total Organic Carbon	7.45	1.0	0.50	mg/l	5.00	2.91	91	80-120	1	20	

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1155.006
Report Number: IRC1931

Sampled: 03/25/08
Received: 03/25/08

METHOD BLANK/QC DATA

Universal Bacterial PCR

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 1 Extracted: 04/01/08											
Matrix spike Analyzed: 04/01/2008 ((+) PCR)						**Source: (+) PCR**					
16s rRNA	+	NA	N/A	NONE				-			

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BOE-C6-0188416

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Project ID: Boeing C-6 Torrance (02/26/08)
1155.006
Report Number: IRC1931

Sampled: 03/25/08
Received: 03/25/08

METHOD BLANK/QC DATA

Volatile Fatty Acids

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: M080404009 Extracted: 04/04/08											
LCS Analyzed: 04/05/2008 (M080404009-LCS)						Source:					
ACETIC ACID	1.7	0.07	0.04	MG/L	2		85	70-130			
BUTYRIC ACID	1.6	0.07	0.06	MG/L	2		80	70-130			
HEXANOIC ACID	1.4	0.1	0.08	MG/L	2		70	70-130			
I-HEXANOIC ACID	1.5	0.1	0.08	MG/L	2		75	70-130			
I-PENTANOIC ACID	1.6	0.07	0.07	MG/L	2		80	70-130			
LACTIC ACID AND HIBA	2.1	0.1	0.07	MG/L	2		105	70-130			
PENTANOIC ACID	1.6	0.07	0.07	MG/L	2		80	70-130			
PROPIONIC ACID	1.7	0.07	0.05	MG/L	2		85	70-130			
PYRUVIC ACID	2	0.07	0.07	MG/L	2		100	70-130			
BLANK Analyzed: 04/05/2008 (M080404009-MB)						Source:					
ACETIC ACID	0.07	0.07	0.04	MG/L				-			*U*
BUTYRIC ACID	0.07	0.07	0.06	MG/L				-			*U*
HEXANOIC ACID	0.1	0.1	0.08	MG/L				-			*U*
I-HEXANOIC ACID	0.1	0.1	0.08	MG/L				-			*U*
I-PENTANOIC ACID	0.07	0.07	0.07	MG/L				-			*U*
LACTIC ACID AND HIBA	0.1	0.1	0.07	MG/L				-			*U*
PENTANOIC ACID	0.07	0.07	0.07	MG/L				-			*U*
PROPIONIC ACID	0.07	0.07	0.05	MG/L				-			*U*
PYRUVIC ACID	0.07	0.07	0.07	MG/L				-			*U*
Matrix Spike Analyzed: 04/05/2008 (P0803346-01AMS)						Source:					
HEXANOIC ACID	1.6	0.1	0.08	MG/L	2.34		63	70-130			*M*
I-HEXANOIC ACID	2	0.1	0.08	MG/L	2.33		84	70-130			
PENTANOIC ACID	4.7	0.07	0.07	MG/L	4.8		95	70-130			
Matrix Spike Duplicate Analyzed: 04/05/2008 (P0803346-01AMSD)						Source:					
HEXANOIC ACID	1.9	0.1	0.08	MG/L	2.34		78	70-130	17	30	
I-HEXANOIC ACID	2.1	0.1	0.08	MG/L	2.33		89	70-130	5	30	
PENTANOIC ACID	4.6	0.07	0.07	MG/L	4.8		90	70-130	2	30	

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Project ID: Boeing C-6 Torrance (02/26/08)
1155.006
Report Number: IRC1931

Sampled: 03/25/08
Received: 03/25/08

METHOD BLANK/QC DATA

Volatile Fatty Acids

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: M080409020 Extracted: 04/07/08											
LCS Analyzed: 04/07/2008 (M080409020-LCS)						Source:					
ACETIC ACID	1.7	0.07	0.04	MG/L	2		85	70-130			
BUTYRIC ACID	1.8	0.07	0.06	MG/L	2		90	70-130			
HEXANOIC ACID	1.8	0.1	0.08	MG/L	2		90	70-130			
I-PENTANOIC ACID	1.8	0.07	0.07	MG/L	2		90	70-130			
LACTIC ACID AND HIBA	2.2	0.1	0.07	MG/L	2		110	70-130			
PENTANOIC ACID	1.7	0.07	0.07	MG/L	2		85	70-130			
PROPIONIC ACID	1.8	0.07	0.05	MG/L	2		90	70-130			
PYRUVIC ACID	2	0.07	0.07	MG/L	2		100	70-130			
BLANK Analyzed: 04/07/2008 (M080409020-MB)						Source:					
ACETIC ACID	0.07	0.07	0.04	MG/L				-			*U*
BUTYRIC ACID	0.07	0.07	0.06	MG/L				-			*U*
HEXANOIC ACID	0.1	0.1	0.08	MG/L				-			*U*
I-PENTANOIC ACID	0.07	0.07	0.07	MG/L				-			*U*
LACTIC ACID AND HIBA	0.08	0.1	0.07	MG/L				-			*Ja*
PENTANOIC ACID	0.07	0.07	0.07	MG/L				-			*U*
PROPIONIC ACID	0.07	0.07	0.05	MG/L				-			*U*
PYRUVIC ACID	0.07	0.07	0.07	MG/L				-			*U*
Batch: M080409021 Extracted: 04/07/08											
LCS Analyzed: 04/07/2008 (M080409021-LCS)						Source:					
ACETIC ACID	1.7	0.07	0.04	MG/L	2		85	70-130			
HEXANOIC ACID	1.8	0.1	0.08	MG/L	2		90	70-130			
I-PENTANOIC ACID	1.8	0.07	0.07	MG/L	2		90	70-130			
LACTIC ACID AND HIBA	2.2	0.1	0.07	MG/L	2		110	70-130			
PENTANOIC ACID	1.7	0.07	0.07	MG/L	2		85	70-130			
PROPIONIC ACID	1.8	0.07	0.05	MG/L	2		90	70-130			
PYRUVIC ACID	2	0.07	0.07	MG/L	2		100	70-130			

TestAmerica Irvine

Trupti Mistry
Project Manager

The results pertain only to the samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from TestAmerica.

BOE-C6-0188417

Avocet Environmental Inc.
16 Technology Drive, Suite 154
Irvine, CA 92618
Attention: Michael Rendina

Project ID: Boeing C-6 Torrance (02/26/08)
1155.006
Report Number: IRC1931

Sampled: 03/25/08
Received: 03/25/08

METHOD BLANK/QC DATA

Volatile Fatty Acids

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: M080409021 Extracted: 04/07/08											
BLANK Analyzed: 04/07/2008 (M080409021-MB)						**Source:**					
ACETIC ACID	0.07	0.07	0.04	MG/L				-			*U*
HEXANOIC ACID	0.1	0.1	0.08	MG/L				-			*U*
I-PENTANOIC ACID	0.07	0.07	0.07	MG/L				-			*U*
LACTIC ACID AND HIBA	0.08	0.1	0.07	MG/L				-			*Ja*
PENTANOIC ACID	0.07	0.07	0.07	MG/L				-			*U*
PROPIONIC ACID	0.07	0.07	0.05	MG/L				-			*U*
PYRUVIC ACID	0.07	0.07	0.07	MG/L				-			*U*
Batch: M080409023 Extracted: 04/07/08											
LCS Analyzed: 04/07/2008 (M080409023-LCS)						**Source:**					
ACETIC ACID	1.7	0.07	0.04	MG/L	2		85	70-130			
BUTYRIC ACID	1.8	0.07	0.06	MG/L	2		90	70-130			
LACTIC ACID AND HIBA	2.2	0.1	0.07	MG/L	2		110	70-130			
PROPIONIC ACID	1.8	0.07	0.05	MG/L	2		90	70-130			
BLANK Analyzed: 04/07/2008 (M080409023-MB)						**Source:**					
ACETIC ACID	0.07	0.07	0.04	MG/L				-			*U*
BUTYRIC ACID	0.07	0.07	0.06	MG/L				-			*U*
LACTIC ACID AND HIBA	0.08	0.1	0.07	MG/L				-			*Ja*
PROPIONIC ACID	0.07	0.07	0.05	MG/L				-			*U*
Batch: M080409025 Extracted: 04/08/08											
LCS Analyzed: 04/08/2008 (M080409025-LCS)						**Source:**					
BUTYRIC ACID	1.7	0.07	0.06	MG/L	2		85	70-130			

TestAmerica Irvine

Trupti Mistry
Project Manager

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
17461 Derian Avenue. Suite 100, Irvine, CA 92614 (949) 261-1022 Fax:(949) 260-3297

Avocet Environmental Inc.
16 Technology Drive, Suite 154
Irvine, CA 92618
Attention: Michael Rendina

Project ID: Boeing C-6 Torrance (02/26/08)
1155.006
Report Number: IRC1931

Sampled: 03/25/08
Received: 03/25/08

METHOD BLANK/QC DATA

Volatile Fatty Acids

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: M080409025 Extracted: 04/08/08											
BLANK Analyzed: 04/08/2008 (M080409025-MB)						**Source:**					
BUTYRIC ACID	0.07	0.07	0.06	MG/L				-			*U*

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Project Manager

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BOE-C6-0188418

Avocet Environmental Inc.
16 Technology Drive, Suite 154
Irvine, CA 92618
Attention: Michael Rendina

Project ID: Boeing C-6 Torrance (02/26/08)
1155.006
Report Number: IRC1931

Sampled: 03/25/08
Received: 03/25/08

METHOD BLANK/QC DATA

RSK175 Dissolved Gases in Water

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 080402GC8A Extracted: 04/02/08											
LCS Dup Analyzed: 04/02/2008 (080402GC8A2BD)					**Source: 080402GC8A2BS**						
Methane	610	1.0	0.39	ug/L	654	0	94	70-130	10	30	
Ethane	1,100	1.0	0.50	ug/L	1227	0	93	70-130	8	30	
Ethylene	1,000	1.0	0.33	ug/L	1145	0	91	70-130	6	30	
LCS Analyzed: 04/02/2008 (080402GC8A2BS)					**Source:**						
Methane	670	1.0	0.39	ug/L	654	0	103	70-130			
Ethane	1,200	1.0	0.50	ug/L	1227	0	101	70-130			
Ethylene	1,100	1.0	0.33	ug/L	1145	0	96	70-130			
Blank Analyzed: 04/02/2008 (080402GC8A2LB)					**Source:**						
Methane	0.54	1.0	0.39	ug/L				-			J
Ethane	ND	1.0	0.50	ug/L				-			
Ethylene	ND	1.0	0.33	ug/L				-			

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Project Manager

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
17461 Derian Avenue. Suite 100, Irvine, CA 92614 (949) 261-1022 Fax:(949) 260-3297

Avocet Environmental Inc.
16 Technology Drive, Suite 154
Irvine, CA 92618
Attention: Michael Rendina

Project ID: Boeing C-6 Torrance (02/26/08)
1155.006
Report Number: IRC1931

Sampled: 03/25/08
Received: 03/25/08

DATA QUALIFIERS AND DEFINITIONS

A-01	Used unpreserved VOA because all preserved VOAs had headspace.
J	Amount below RL and equal to or above MDL
Ja	estimated value
Jb	Estimated value. Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). The user of this data should be aware that this data is of limited reliability.
M	Recovery/RPD poor for MS/MSD, SAMP/DUP
M1	The MS and/or MSD were above the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
M13	The sample spiked had a pH of less than 2. 2-Chloroethylvinylether degrades under acidic conditions.
M2	The MS and/or MSD were below the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
MHA	Due to high levels of analyte in the sample, the MS/MSD calculation does not provide useful spike recovery information. See Blank Spike (LCS).
P	The sample, as received, was not preserved in accordance to the referenced analytical method.
P6	Sample received unpreserved, however the sample was analyzed within 7 days per EPA recommendation.
pH	pH = <2
RL1	Reporting limit raised due to sample matrix effects.
RL3	Reporting limit raised due to high concentrations of non-target analytes.
U	Non detect
UM	[Undefined]
ND	Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
RPD	Relative Percent Difference

ADDITIONAL COMMENTS

For 8260 analyses:

Due to the high water solubility of alcohols and ketones, the calibration criteria for these compounds is <30% RSD. The average % RSD of all compounds in the calibration is 15%, in accordance with EPA methods.

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Trupti Mistry
Project Manager

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BOE-C6-0188419

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

17461 Derian Avenue, Suite 100, Irvine, CA 92614 (949) 261-1022 Fax:(949) 260-3297

Avocet Environmental Inc. 16 Technology Drive, Suite 154 Irvine, CA 92618 Attention: Michael Rendina	Project ID: Boeing C-6 Torrance (02/26/08) 1155.006 Report Number: IRC1931	Sampled: 03/25/08 Received: 03/25/08

Certification Summary

TestAmerica Irvine

Method	Matrix	Nelac	California
EPA 160.1	Water	X	X
EPA 300.0	Water	X	X
EPA 310.1	Water	X	X
EPA 8260B	Water	X	X
EPA 9060A MOD.	Water		X

Nevada and NELAP provide analyte specific accreditations. Analyte specific information for TestAmerica may be obtained by contacting the laboratory or visiting our website at www.testamericainc.com

Subcontracted Laboratories

Air Technology Laboratories, Inc.

Method Performed: RSK-175

Samples: IRC1931-02, IRC1931-03, IRC1931-04, IRC1931-05, IRC1931-06, IRC1931-07, IRC1931-08, IRC1931-09, IRC1931-10, IRC1931-11

Idaho State University - Dept. of Bio Sci - MRCF

650 Memorial Drive - Pocatello, ID 83209

Analysis Performed: DHC Assay

Samples: IRC1931-02, IRC1931-03, IRC1931-04, IRC1931-09, IRC1931-10

ISU Molecular

Method Performed: qPCR TaqMan assay

Samples: IRC1931-02, IRC1931-03, IRC1931-04, IRC1931-09, IRC1931-10

Method Performed: Universal Bacterial PCR

Samples: IRC1931-02, IRC1931-03, IRC1931-04, IRC1931-09, IRC1931-10

Microseeps-SUB

220 William Pitt Way - Pittsburgh, PA 15238

Method Performed: AM23G

Samples: IRC1931-02, IRC1931-03, IRC1931-04, IRC1931-05, IRC1931-06, IRC1931-07, IRC1931-08, IRC1931-09, IRC1931-10, IRC1931-11

TestAmerica Irvine

Trupti Mistry
Project Manager

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BOE-C6-0188420

AVO20080325B

COC #:

Page: 1 of 2

CHAIN OF CUSTODY RECORD

Customer Information

Site: C6
Company: Avocet Environmental, Inc.
Report to: Michael Rendina
Address: 16 Technology Drive, Ste. 154
Irvine
CA
92618
Email: mrendina@avocetenv.com

Project Information

Client Name: Boeing
Sampling Event: Mar-08 Bldg. 1/36 Groundwater
Project Number: 1155.006
Project Manager: Michael Rendina
PM Phone #: (949) 296-0977
Field Contact: David Lieberman
Field Contact #: (949) 274-3449
Lab Name: Test America
Lab Contact: Trupti Mistry
Lab Address: 17461 Derian Ave
Irvine, CA 92614
Lab Phone: (040) 261-1022

Project Information

Collector: Eric Costales/Brian Barsumian
Contact #:
Boeing PM:

Requested Analyses

Sample Name	Matrix	Date	Time	No. of Containers	Anions 300.0 NO2/NO3/Cl/SO4 Water	DHC PCR Water	DHGs RSK175 Ethene/Ethane/Methane Water	TDS 160.1 Water	TOC 9060 Water	Total Alkalinity 310.1 Water	VFA 8M23G Water	VOCs 8260B C1 Water	Comments
TB_AVO20080325_01	Water	3/25/2008	0:00	6								X	
AW0076UB_WG20080325_01	Water	3/25/2008	7:50	15	10	10	10		10	10	10	10	
EWB002_WG20080325_01	Water	3/25/2008	8:40	15	10	10	10		10	10	10	10	
AW0075UB_WG20080325_01	Water	3/25/2008	9:23	15	10	10	10		10	10	10	10	
TMW_07_WG20080325_01	Water	3/25/2008	9:24	13	10		10	10	10	10	10	10	
AW0067UB_WG20080325_01	Water	3/25/2008	10:24	13	10		10		10	10	10	10	
AW0068UB_WG20080325_01	Water	3/25/2008	11:20	13	10		10		10	10	10	10	
AW0065UB_WG20080325_01	Water	3/25/2008	11:21	13	10		10	10	10	10	10	10	
AW0077UB_WG20080325_01	Water	3/25/2008	11:56	14	10	10	10		10	10	10	10	one DHG vial broken, 2 remaining.
AW0073C_WG20080325_01	Water	3/25/2008	12:30	15	10	10	10		10	10	10	10	

Instructions/TAT

Legend: Numerical values for analyses equate to turn around time in days

H - Hold
EH - Extract/Extrude & Hold

Note: Values in the cells bellow are Turn Around Times.

1. Relinquished by: David Lieberman	Date: 3/25/2008	2. Received by: TAT	Date: 3/25/08
Company: Avocet Environmental, Inc.	Time: 14:06	Company: TESTAMERICA	Time: 1466
3. Relinquished by: TAT	Date: 3/25/08	4. Received by:	Date: 3/25/08
Company: TESTAMERICA	Time: 1515	Company: TAI	Time: 1515

Comments:

Geotracker EDF
Data Validation Package

6.194.1°C

BOEING

CHAIN OF CUSTODY RECORD

COC #: AVO20080325B

Page: 2 of 2

Customer Information

Site: C6

Company: Avocet Environmental, Inc.

Report to: Michael Rendina

Address: 16 Technology Drive, Ste. 154
Irvine
CA
92618

Email: mrendina@avocetenv.com

Project Information

Client Name: Boeing

Sampling Event: Mar-08 Bldg. 1/36 Groundwater

Project Number: 1155.006

Project Manager: Michael Rendina

PM Phone #: (949) 296-0977

Field Contact: David Lieberman

Field Contact #: (949) 274-3449

Lab Name: Test America

Lab Contact: Trupti Mistry

Lab Address: 17461 Derian Ave
Irvine, CA 92614

Lab Phone: (040) 261-1022

Project Information

Collector: Eric Costales/Brian Barsumian

Contact #:

Boeing PM:

Requested Analyses

Sample Name	Matrix	Date	Time	No. of Containers	Anions 300.0 NO2/NO3/Cl/SO4 Water	DHC PCR Water	DHGs RSK175 Ethene/Ethane/Methane Water	TDS 160.1 Water	TOC 9060 Water	Total Alkalinity 310.1 Water	VFA 8M23G Water	VOCs 8260B C1 Water	Comments
WCC_12S_WG20080325_01	Water	3/25/2008	13:06	13	10	10	10	10	10	10	10		
WCC_12S_WG20080325_02	Water	3/25/2008	13:06	6							10		
EB_AVO20080325_01	Water	3-25-08	13:00	3								X	

Instructions/TAT

Legend:
Numerical values for analyses equate to turn around time in days

H - Hold
EH - Extract/Extrude & Hold

Note: Values in the cells bellow are Turn Around Times.

1. Relinquished by:	Date:	2. Received by:	Date:	3. Relinquished by:	Date:	4. Received by:	Date:
David Lieberman	3/25/2008	TAI	3/25/08		3/25/08		3/25/08
Company: Avocet Environmental, Inc.	Time: 14:06	Company: TESTAMERICA	Time: 1406	Company: TESTAMERICA	Time: 1515	Company: TAI	Time: 1515

Comments:

Geotracker EDF

Data Validation Package

6.194.12

AirTECHNOLOGY Laboratories, Inc.

April 8, 2008

nelac
FL Cert #E87847/LA Cert #04140
EPA Method TO14A/TO15
EPA Method TO3
RSK-175
EPA Method 25C/3C

TestAmerica
ATTN: Trupti Mistry
17461 Derian Ave., Suite 100
Irvine, CA 92614

LABORATORY TEST RESULTS

Project Reference: IRC1931
Lab Number: A8032603-01/10

Enclosed are results for sample(s) received 3/26/08 by Air Technology Laboratories. Analyses were performed according to specifications on the chain of custody provided with the sample(s).

Report Narrative:

- Sample analyses were performed within method performance criteria and meet all requirements of the NELAC Standards.
- All results are reported without qualifications.

ATL appreciates the opportunity to provide testing services to your company. If you have any questions regarding these results, please call me at (626) 964-4032.

Sincerely,

Mark Johnson
Operations Manager
MJohnson@AirTechLabs.com

Enclosures

Note: The cover letter is an integral part of this analytical report.

SUBCONTRACT ORDER

TestAmerica Irvine

IRC1931 A&032603-01/10

SENDING LABORATORY:

TestAmerica Irvine
17461 Derian Avenue. Suite 100
Irvine, CA 92614
Phone: (949) 261-1022
Fax: (949) 260-3297
Project Manager: Trupti Mistry

RECEIVING LABORATORY:

Air Technology Lab - SUB
18501 E. Gale Avenue, Suite #130
City of Industry, CA 91748
Phone :(626) 964-4032
Fax: (626) 964-5832
Project Location: California
Receipt Temperature: 8 °C Ice: (Y) / N

Analysis	Units	Due	Expires	Comments
01 **Sample ID: IRC1931-02**	**Water**		Sampled: 03/25/08 07:50	
Diss. Gasses-OUT	~~mg/l~~ ug/L	04/08/08	04/08/08 07:50	sub=ATL;RL=1-C2H4,C2H6,CH4,Elmnt EDD,Boeing,Jflags
Containers Supplied: 40 mL VOA w/HCL + rubber septa (G); 40 mL VOA w/HCL + rubber septa (H); 40 mL VOA w/HCL + rubber septa (I)				
02 **Sample ID: IRC1931-03**	**Water**		Sampled: 03/25/08 08:40	
Diss. Gasses-OUT	mg/l	04/08/08	04/08/08 08:40	sub=ATL;RL=1-C2H4,C2H6,CH4,Elmnt EDD,Boeing,Jflags
Containers Supplied: 40 mL VOA w/HCL + rubber septa (G); 40 mL VOA w/HCL + rubber septa (H); 40 mL VOA w/HCL + rubber septa (I)				
03 **Sample ID: IRC1931-04**	**Water**		Sampled: 03/25/08 09:23	
Diss. Gasses-OUT	mg/l	04/08/08	04/08/08 09:23	sub=ATL;RL=1-C2H4,C2H6,CH4,Elmnt EDD,Boeing,Jflags
Containers Supplied: 40 mL VOA w/HCL + rubber septa (G); 40 mL VOA w/HCL + rubber septa (H); 40 mL VOA w/HCL + rubber septa (I)				
04 **Sample ID: IRC1931-05**	**Water**		Sampled: 03/25/08 09:24	
Diss. Gasses-OUT	mg/l	04/08/08	04/08/08 09:24	sub=ATL;RL=1-C2H4,C2H6,CH4,Elmnt EDD,Boeing,Jflags
Containers Supplied: 40 mL VOA w/HCL + rubber septa (G); 40 mL VOA w/HCL + rubber septa (H); 40 mL VOA w/HCL + rubber septa (I)				
05 **Sample ID: IRC1931-06**	**Water**		Sampled: 03/25/08 10:24	
Diss. Gasses-OUT	mg/l	04/08/08	04/08/08 10:24	sub=ATL;RL=1-C2H4,C2H6,CH4,Elmnt EDD,Boeing,Jflags
Containers Supplied: 40 mL VOA w/HCL + rubber septa (G); 40 mL VOA w/HCL + rubber septa (H); 40 mL VOA w/HCL + rubber septa (I)				

Released By — Date/Time 3/26/08 1145 — Received By — Date/Time 3/26/08 915

Released By — Date/Time 3/26/08 1145 — Received By — Date/Time 3/26/08 1145

SUBCONTRACT ORDER

TestAmerica Irvine

IRC1931

Analysis	Units	Due	Expires	Comments
06 **Sample ID: IRC1931-07**	**Water**		Sampled: 03/25/08 11:20	
Diss. Gasses-OUT	mg/l	04/08/08	04/08/08 11:20	sub=ATL;RL=1-C2H4,C2H6,CH4,Elmnt EDD,Boeing,Jflags
Containers Supplied: 40 mL VOA w/HCL + rubber septa (G); 40 mL VOA w/HCL + rubber septa (H); 40 mL VOA w/HCL + rubber septa (I)				
07 **Sample ID: IRC1931-08**	**Water**		Sampled: 03/25/08 11:21	
Diss. Gasses-OUT	mg/l	04/08/08	04/08/08 11:21	sub=ATL;RL=1-C2H4,C2H6,CH4,Elmnt EDD,Boeing,Jflags
Containers Supplied: 40 mL VOA w/HCL + rubber septa (G); 40 mL VOA w/HCL + rubber septa (H); 40 mL VOA w/HCL + rubber septa (I)				
08 **Sample ID: IRC1931-09**	**Water**		Sampled: 03/25/08 11:56	
Diss. Gasses-OUT	mg/l	04/08/08	04/08/08 11:56	sub=ATL;RL=1-C2H4,C2H6,CH4,Elmnt EDD,Boeing,Jflags
Containers Supplied: 40 mL VOA w/HCL + rubber septa (G); 40 mL VOA w/HCL + rubber septa (H)				
09 **Sample ID: IRC1931-10**	**Water**		Sampled: 03/25/08 12:30	
Diss. Gasses-OUT	mg/l	04/08/08	04/08/08 12:30	sub=ATL;RL=1-C2H4,C2H6,CH4,Elmnt EDD,Boeing,Jflags
Containers Supplied: 40 mL VOA w/HCL + rubber septa (G); 40 mL VOA w/HCL + rubber septa (H); 40 mL VOA w/HCL + rubber septa (I)				
10 **Sample ID: IRC1931-11**	**Water**		Sampled: 03/25/08 13:06	
Diss. Gasses-OUT	mg/l	04/08/08	04/08/08 13:06	sub=ATL;RL=1-C2H4,C2H6,CH4,Elmnt EDD,Boeing,Jflags
Containers Supplied: 40 mL VOA w/HCL + rubber septa (G); 40 mL VOA w/HCL + rubber septa (H); 40 mL VOA w/HCL + rubber septa (I)				

BOE-C6-0188422

Client: TestAmerica
Attn: Trupti Mistry

Client's Project: IRC1931
Date Received: 3/26/2008
Matrix: Water
Units: ug/L

Dissolved Gases by EPA Procedure RSKSOP-175

Lab No.:			A8032603-01		A8032603-02		A8032603-03		A8032603-04		A8032603-05	
Client Sample I.D.:			IRC1931-02		IRC1931-03		IRC1931-04		IRC1931-05		IRC1931-06	
Date Sampled:			3/25/2008		3/25/2008		3/25/2008		3/25/2008		3/25/2008	
Date Analyzed:			4/2/2008		4/2/2008		4/2/2008		4/2/2008		4/2/2008	
Analyst Initials:			DT		DT		DT		DT		DT	
Data File:			02apr017		02apr018		02apr019		02apr020		02apr021	
QC Batch:			080402GC8A2		080402GC8A2		080402GC8A2		080402GC8A2		080402GC8A2	
Dilution Factor:			1.0		1.0		1.0		1.0		1.0	
ANALYTE	PQL	MDL	RL	Results	RL	Results	RL	Results	RL	Results	RL	Results
Methane	1.0	0.39	1.0	550	1.0	3,500	1.0	3.9	1.0	0.47 J	1.0	3,600
Ethane	1.0	0.50	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND
Ethylene	1.0	0.33	1.0	85	1.0	39	1.0	5.3	1.0	0.41 J	1.0	0.45 J

PQL = Practical Quantitation Limit
MDL = Method Detection Limit
ND = Not Detected (Below RL)
RL = PQL X Dilution Factor
J = Detected below RL and above MDL.

Reviewed/Approved By: Mark J. Johnson, Operations Manager Date: 4/7/08

The cover letter is an integral part of this analytical report

Client: TestAmerica
Attn: Trupti Mistry

Client's Project: IRC1931
Date Received: 3/26/2008
Matrix: Water
Units: ug/L

Dissolved Gases by EPA Procedure RSKSOP-175

Lab No.:			A8032603-06		A8032603-07		A8032603-08		A8032603-09		A8032603-10	
Client Sample I.D.:			IRC1931-07		IRC1931-08		IRC1931-09		IRC1931-10		IRC1931-11	
Date Sampled:			3/25/2008		3/25/2008		3/25/2008		3/25/2008		3/25/2008	
Date Analyzed:			4/2/2008		4/2/2008		4/2/2008		4/2/2008		4/2/2008	
Analyst Initials:			DT		DT		DT		DT		DT	
Data File:			02apr022		02apr023		02apr024		02apr025		02apr026	
QC Batch:			080402GC8A2		080402GC8A2		080402GC8A2		080402GC8A2		080402GC8A2	
Dilution Factor:			1.0		1.0		1.0		1.0		1.0	
ANALYTE	PQL	MDL	RL	Results	RL	Results	RL	Results	RL	Results	RL	Results
Methane	1.0	0.39	1.0	5,700	1.0	2.8	1.0	5,000	1.0	630	1.0	1.2
Ethane	1.0	0.50	1.0	0.73 J	1.0	ND	1.0	ND	1.0	ND	1.0	ND
Ethylene	1.0	0.33	1.0	0.53 J	1.0	1.8	1.0	270	1.0	2.7	1.0	ND

PQL = Practical Quantitation Limit
MDL = Method Detection Limit
ND = Not Detected (Below RL)
RL = PQL X Dilution Factor
J = Detected below RL and above MDL.

Reviewed/Approved By: Mark J. Johnson, Operations Manager Date: 4/7/08

The cover letter is an integral part of this analytical report

BOE-C6-0188423

QC Batch No.: 080402GC8A2
Matrix: Water
Units: ug/L

QC for Dissolved Gases by EPA Procedure RSKSOP-175

Lab No.:			Method Blank		LCS		LCSD			
Date Analyzed:			04/02/08		04/02/08		04/02/08			
Analyst Initials:			DT		DT		DT			
Datafile:			02apr016		02apr014		02apr015			
Dilution Factor:			1.0		1.0		1.0			
ANALYTE	PQL	MDL	RL	Results	% Rec.	Criteria	% Rec.	Criteria	%RPD	Criteria
Methane	1.0	0.39	1.0	0.54 J	103	70-130%	94	70-130%	9.7	<30
Ethane	1.0	0.50	1.0	ND	101	70-130%	93	70-130%	7.9	<30
Ethylene	1.0	0.33	1.0	ND	96	70-130%	91	70-130%	5.9	<30

PQL = Practical Quantitation Limit
MDL = Method Detection Limit
ND = Not Detected (Below RL).
RL = PQL X Dilution Factor
J = Detected below RL and above MDL.

Reviewed/Approved By: Mark J. Johnson, Operations Manager Date: 4/7/08

The cover letter is an integral part of this analytical report.

microseeps
from insight comes solutions

Client Name: Test America
Contact: Trupti Mistry
Address: 17461 Derian Ave
Suite 100
Irvine, CA 92614

Page: Page 1 of 18
Lab Proj #: P0803346
Report Date: 04/09/08
Client Proj Name: IRC1931
Client Proj #: IRC1931

Laboratory Results

Total pages in data package: 75

Lab Sample #	Client Sample ID
P0803346-01	IRC1931-02
P0803346-02	IRC1931-03
P0803346-03	IRC1931-04
P0803346-04	IRC1931-05
P0803346-05	IRC1931-06
P0803346-06	IRC1931-07
P0803346-07	IRC1931-08
P0803346-08	IRC1931-09
P0803346-09	IRC1931-10
P0803346-10	IRC1931-11

Microseeps test results meet all the requirements of the NELAC standards or provide reasons and/or justification if they do not.

Approved By: Debbie Hallo (EMW) Date: 4/9/08

Project Manager: Debbie Hallo

The analytical results reported here are reliable and usable to the precision expressed in this report. As required by some regulating authorities, a full discussion of the uncertainty in our analytical results can be obtained at our web site or through customer service. Unless otherwise specified, all results are reported on a wet weight basis.

As a valued client we would appreciate your comments on our service
Please call customer service at (412)826-5245 or email customerservice@microseeps.com

BOE-C6-0188424

Client Name: Test America
Contact: Trupti Mistry
Address: 17461 Derian Ave
Suite 100
Irvine, CA 92614

Page: Page 2 of 18
Lab Proj #: P0803346
Report Date: 04/09/08
Client Proj Name: IRC1931
Client Proj #: IRC1931

Case Narrative: The percent recoveries for the MS/MSD analyses could only be quantitated for pentanoic, hexanoic, and i-hexanoic acids because of the sample matrix. The percent recovery for the hexanoic acid for the MS analysis was outside of control limits. The MSD and LCS were acceptable.

Data Qualifiers: J - estimated value, U - Non detect, R - Poor surrogate recovery, M - Recovery/RPD poor for MS/MSD, SAMP/DUP, B - detected in blank, S - field sample as received did not meet NELAC sample acceptance criteria, L - Subcontracted Lab used, N - NELAC certified analysis

Client Name: Test America
Contact: Trupti Mistry
Address: 17461 Derian Ave
Suite 100
Irvine, CA 92614

Page: Page 3 of 18
Lab Proj #: P0803346
Report Date: 04/09/08
Client Proj Name: IRC1931
Client Proj #: IRC1931

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
IRC1931-02	Water	P0803346-01	25 Mar. 08 7:50	27 Mar. 08 10:11

Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	By
SemiVolatiles							
N Acetic Acid		360.00	7.00	mg/L	AM23G	4/7/08	jb
N Butyric Acid		58.00	0.7	mg/L	AM23G	4/7/08	jb
N Hexanoic Acid	M	0.34	0.1	mg/L	AM23G	4/5/08	jb
N i-Hexanoic Acid		0.33	0.1	mg/L	AM23G	4/5/08	jb
N i-Pentanoic Acid		4.80	0.7	mg/L	AM23G	4/7/08	jb
N Lactic Acid and HIBA	U	< 10.00	10.00	mg/L	AM23G	4/7/08	jb
N Pentanoic Acid		2.80	0.07	mg/L	AM23G	4/5/08	jb
N Propionic Acid		90.00	7.00	mg/L	AM23G	4/7/08	jb
N Pyruvic Acid		5.40	0.7	mg/L	AM23G	4/7/08	jb

Data Qualifiers: J - estimated value, U - Non detect, R - Poor surrogate recovery, M - Recovery/RPD poor for MS/MSD, SAMP/DUP, B - detected in blank, S - field sample as received did not meet NELAC sample acceptance criteria, L - Subcontracted Lab used, N - NELAC certified analysis

BOE-C6-0188425

Client Name: Test America
Contact: Trupti Mistry
Address: 17461 Derian Ave
Suite 100
Irvine, CA 92614

Page: Page 4 of 18
Lab Proj #: P0803346
Report Date: 04/09/08
Client Proj Name: IRC1931
Client Proj #: IRC1931

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
IRC1931-03	Water	P0803346-02	25 Mar. 08 8:40	27 Mar. 08 10:11

Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	By
SemiVolatiles							
N Acetic Acid		200.00	7.00	mg/L	AM23G	4/8/08	jb
N Butyric Acid		6.80	0.7	mg/L	AM23G	4/8/08	jb
N Hexanoic Acid	M	0.27	0.1	mg/L	AM23G	4/5/08	jb
N i-Hexanoic Acid	U	< 0.10	0.1	mg/L	AM23G	4/5/08	jb
N i-Pentanoic Acid		5.40	0.7	mg/L	AM23G	4/8/08	jb
N Lactic Acid and HIBA	U	< 10.00	10.00	mg/L	AM23G	4/8/08	jb
N Pentanoic Acid		2.50	0.07	mg/L	AM23G	4/5/08	jb
N Propionic Acid		64.00	0.7	mg/L	AM23G	4/8/08	jb
N Pyruvic Acid		4.20	0.7	mg/L	AM23G	4/8/08	jb

Data Qualifiers: J - estimated value, U - Non detect, R - Poor surrogate recovery, M - Recovery/RPD poor for MS/MSD, SAMP/DUP, B - detected in blank, S - field sample as received did not meet NELAC sample acceptance criteria, L - Subcontracted Lab used, N - NELAC certified analysis

Client Name: Test America
Contact: Trupti Mistry
Address: 17461 Derian Ave
Suite 100
Irvine, CA 92614

Page: Page 5 of 18
Lab Proj #: P0803346
Report Date: 04/09/08
Client Proj Name: IRC1931
Client Proj #: IRC1931

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
IRC1931-04	Water	P0803346-03	25 Mar. 08 9:23	27 Mar. 08 10:11

Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	By
SemiVolatiles							
N Acetic Acid		180.00	7.00	mg/L	AM23G	4/8/08	jb
N Butyric Acid		4.90	0.7	mg/L	AM23G	4/8/08	jb
N Hexanoic Acid	UM	< 0.10	0.1	mg/L	AM23G	4/5/08	jb
N i-Hexanoic Acid	U	< 0.10	0.1	mg/L	AM23G	4/5/08	jb
N i-Pentanoic Acid	M	1.80	0.07	mg/L	AM23G	4/5/08	jb
N Lactic Acid and HIBA	U	< 10.00	10.00	mg/L	AM23G	4/8/08	jb
N Pentanoic Acid		0.45	0.07	mg/L	AM23G	4/5/08	jb
N Propionic Acid		38.00	0.7	mg/L	AM23G	4/8/08	jb
N Pyruvic Acid	M	1.70	0.07	mg/L	AM23G	4/5/08	jb

Data Qualifiers: J - estimated value, U - Non detect, R - Poor surrogate recovery, M - Recovery/RPD poor for MS/MSD, SAMP/DUP, B - detected in blank, S - field sample as received did not meet NELAC sample acceptance criteria, L - Subcontracted Lab used, N - NELAC certified analysis

BOE-C6-0188426

Client Name: Test America
Contact: Trupti Mistry
Address: 17461 Derian Ave
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Irvine, CA 92614

Page: Page 6 of 18
Lab Proj #: P0803346
Report Date: 04/09/08
Client Proj Name: IRC1931
Client Proj #: IRC1931

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
IRC1931-05	Water	P0803346-04	25 Mar. 08 9:24	27 Mar. 08 10:11

Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	By
SemiVolatiles							
N Acetic Acid	M	0.64	0.07	mg/L	AM23G	4/7/08	jb
N Butyric Acid	UM	< 0.07	0.07	mg/L	AM23G	4/7/08	jb
N Hexanoic Acid	UM	< 0.10	0.10	mg/L	AM23G	4/7/08	jb
N i-Hexanoic Acid	U	< 0.10	0.10	mg/L	AM23G	4/7/08	jb
N i-Pentanoic Acid	UM	< 0.07	0.07	mg/L	AM23G	4/7/08	jb
N Lactic Acid and HIBA	UM	< 0.10	0.10	mg/L	AM23G	4/7/08	jb
N Pentanoic Acid	U	< 0.07	0.07	mg/L	AM23G	4/7/08	jb
N Propionic Acid	UM	< 0.07	0.07	mg/L	AM23G	4/7/08	jb
N Pyruvic Acid	M	0.25	0.07	mg/L	AM23G	4/7/08	jb

Data Qualifiers: J - estimated value, U - Non detect, R - Poor surrogate recovery, M - Recovery/RPD poor for MS/MSD, SAMP/DUP, B - detected in blank, S - field sample as received did not meet NELAC sample acceptance criteria, L - Subcontracted Lab used, N - NELAC certified analysis

Client Name: Test America
Contact: Trupti Mistry
Address: 17461 Derian Ave
Suite 100
Irvine, CA 92614

Page: Page 7 of 18
Lab Proj #: P0803346
Report Date: 04/09/08
Client Proj Name: IRC1931
Client Proj #: IRC1931

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
IRC1931-06	Water	P0803346-05	25 Mar. 08 10:24	27 Mar. 08 10:11

Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	By
SemiVolatiles							
N Acetic Acid		1200.00	70.00	mg/L	AM23G	4/8/08	jb
N Butyric Acid		740.00	70.00	mg/L	AM23G	4/8/08	jb
N Hexanoic Acid		72.00	1	mg/L	AM23G	4/8/08	jb
N i-Hexanoic Acid		2.30	0.1	mg/L	AM23G	4/5/08	jb
N i-Pentanoic Acid		230.00	7	mg/L	AM23G	4/8/08	jb
N Lactic Acid and HIBA	J	70.00	100.00	mg/L	AM23G	4/8/08	jb
N Pentanoic Acid		78.00	0.7	mg/L	AM23G	4/8/08	jb
N Propionic Acid		420.00	70.00	mg/L	AM23G	4/8/08	jb
N Pyruvic Acid		130.00	7	mg/L	AM23G	4/8/08	jb

Data Qualifiers: J - estimated value, U - Non detect, R - Poor surrogate recovery, M - Recovery/RPD poor for MS/MSD, SAMP/DUP, B - detected in blank, S - field sample as received did not meet NELAC sample acceptance criteria, L - Subcontracted Lab used, N - NELAC certified analysis

Client Name: Test America
Contact: Trupti Mistry
Address: 17461 Derian Ave
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Irvine, CA 92614

Page: Page 8 of 18
Lab Proj #: P0803346
Report Date: 04/09/08
Client Proj Name: IRC1931
Client Proj #: IRC1931

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
IRC1931-07	Water	P0803346-06	25 Mar. 08 11:20	27 Mar. 08 10:11

Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	By
SemiVolatiles							
N Acetic Acid		440.00	7	mg/L	AM23G	4/8/08	jb
N Butyric Acid		1900.00	700.00	mg/L	AM23G	4/8/08	jb
N Hexanoic Acid		680.00	10	mg/L	AM23G	4/8/08	jb
N i-Hexanoic Acid		1.50	0.1	mg/L	AM23G	4/5/08	jb
N i-Pentanoic Acid		270.00	7	mg/L	AM23G	4/8/08	jb
N Lactic Acid and HIBA	U	< 10.00	10	mg/L	AM23G	4/8/08	jb
N Pentanoic Acid		240.00	7	mg/L	AM23G	4/8/08	jb
N Propionic Acid		78.00	7	mg/L	AM23G	4/8/08	jb
N Pyruvic Acid		190.00	7	mg/L	AM23G	4/8/08	jb

Data Qualifiers: J - estimated value, U - Non detect, R - Poor surrogate recovery, M - Recovery/RPD poor for MS/MSD, SAMP/DUP, B - detected in blank, S - field sample as received did not meet NELAC sample acceptance criteria, L - Subcontracted Lab used, N - NELAC certified analysis

Client Name: Test America
Contact: Trupti Mistry
Address: 17461 Derian Ave
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Irvine, CA 92614

Page: Page 9 of 18
Lab Proj #: P0803346
Report Date: 04/09/08
Client Proj Name: IRC1931
Client Proj #: IRC1931

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
IRC1931-08	Water	P0803346-07	25 Mar. 08 11:21	27 Mar. 08 10:11

Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	By
SemiVolatiles							
N Acetic Acid	M	1.50	0.07	mg/L	AM23G	4/7/08	jb
N Butyric Acid	UM	< 0.07	0.07	mg/L	AM23G	4/7/08	jb
N Hexanoic Acid	UM	< 0.10	0.10	mg/L	AM23G	4/7/08	jb
N i-Hexanoic Acid	U	< 0.10	0.10	mg/L	AM23G	4/7/08	jb
N i-Pentanoic Acid	UM	< 0.07	0.07	mg/L	AM23G	4/7/08	jb
N Lactic Acid and HIBA	UM	< 0.10	0.10	mg/L	AM23G	4/7/08	jb
N Pentanoic Acid	U	< 0.07	0.07	mg/L	AM23G	4/7/08	jb
N Propionic Acid	M	0.24	0.07	mg/L	AM23G	4/7/08	jb
N Pyruvic Acid	UM	< 0.07	0.07	mg/L	AM23G	4/7/08	jb

Data Qualifiers: J - estimated value, U - Non detect, R - Poor surrogate recovery, M - Recovery/RPD poor for MS/MSD, SAMP/DUP, B - detected in blank, S - field sample as received did not meet NELAC sample acceptance criteria, L - Subcontracted Lab used, N - NELAC certified analysis

BOE-C6-0188428

Client Name: Test America
Contact: Trupti Mistry
Address: 17461 Derian Ave
Suite 100
Irvine, CA 92614

Page: Page 10 of 18
Lab Proj #: P0803346
Report Date: 04/09/08
Client Proj Name: IRC1931
Client Proj #: IRC1931

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
IRC1931-09	Water	P0803346-08	25 Mar. 08 11:56	27 Mar. 08 10:11

Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	By
SemiVolatiles							
N Acetic Acid		190.00	7.00	mg/L	AM23G	4/8/08	jb
N Butyric Acid		4.30	0.7	mg/L	AM23G	4/8/08	jb
N Hexanoic Acid	M	0.87	0.1	mg/L	AM23G	4/5/08	jb
N i-Hexanoic Acid	U	< 0.10	0.1	mg/L	AM23G	4/5/08	jb
N i-Pentanoic Acid	M	1.30	0.07	mg/L	AM23G	4/5/08	jb
N Lactic Acid and HIBA	U	< 10.00	10.00	mg/L	AM23G	4/8/08	jb
N Pentanoic Acid		0.38	0.07	mg/L	AM23G	4/5/08	jb
N Propionic Acid		21.00	0.7	mg/L	AM23G	4/8/08	jb
N Pyruvic Acid	M	1.60	0.07	mg/L	AM23G	4/5/08	jb

Data Qualifiers: J - estimated value, U - Non detect, R - Poor surrogate recovery, M - Recovery/RPD poor for MS/MSD, SAMP/DUP, B - detected in blank, S - field sample as received did not meet NELAC sample acceptance criteria, L - Subcontracted Lab used, N - NELAC certified analysis

Client Name: Test America
Contact: Trupti Mistry
Address: 17461 Derian Ave
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Irvine, CA 92614

Page: Page 11 of 18
Lab Proj #: P0803346
Report Date: 04/09/08
Client Proj Name: IRC1931
Client Proj #: IRC1931

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
IRC1931-10	Water	P0803346-09	25 Mar. 08 12:30	27 Mar. 08 10:11

Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	By
SemiVolatiles							
N Acetic Acid		35.00	0.70	mg/L	AM23G	4/8/08	jb
N Butyric Acid	UM	< 0.07	0.07	mg/L	AM23G	4/5/08	jb
N Hexanoic Acid	M	0.12	0.1	mg/L	AM23G	4/5/08	jb
N i-Hexanoic Acid	U	< 0.10	0.1	mg/L	AM23G	4/5/08	jb
N i-Pentanoic Acid	UM	< 0.07	0.07	mg/L	AM23G	4/5/08	jb
N Lactic Acid and HIBA	U	< 1.00	1.00	mg/L	AM23G	4/8/08	jb
N Pentanoic Acid	U	< 0.07	0.07	mg/L	AM23G	4/5/08	jb
N Propionic Acid		1.60	0.70	mg/L	AM23G	4/8/08	jb
N Pyruvic Acid	UM	< 0.07	0.07	mg/L	AM23G	4/5/08	jb

Data Qualifiers: J - estimated value, U - Non detect, R - Poor surrogate recovery, M - Recovery/RPD poor for MS/MSD, SAMP/DUP, B - detected in blank, S - field sample as received did not meet NELAC sample acceptance criteria, L - Subcontracted Lab used, N - NELAC certified analysis

BOE-C6-0188429

Client Name: Test America
Contact: Trupti Mistry
Address: 17461 Derian Ave
Suite 100
Irvine, CA 92614

Page: Page 12 of 18
Lab Proj #: P0803346
Report Date: 04/09/08
Client Proj Name: IRC1931
Client Proj #: IRC1931

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
IRC1931-11	Water	P0803346-10	25 Mar. 08 13:06	27 Mar. 08 10:11

Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	By
SemiVolatiles							
N Acetic Acid	M	0.10	0.07	mg/L	AM23G	4/7/08	jb
N Butyric Acid	UM	< 0.07	0.07	mg/L	AM23G	4/7/08	jb
N Hexanoic Acid	UM	< 0.10	0.10	mg/L	AM23G	4/7/08	jb
N i-Hexanoic Acid	U	< 0.10	0.10	mg/L	AM23G	4/7/08	jb
N i-Pentanoic Acid	UM	< 0.07	0.07	mg/L	AM23G	4/7/08	jb
N Lactic Acid and HIBA	UM	< 0.10	0.10	mg/L	AM23G	4/7/08	jb
N Pentanoic Acid	U	< 0.07	0.07	mg/L	AM23G	4/7/08	jb
N Propionic Acid	UM	< 0.07	0.07	mg/L	AM23G	4/7/08	jb
N Pyruvic Acid	M	0.11	0.07	mg/L	AM23G	4/7/08	jb

Data Qualifiers: J - estimated value, U - Non detect, R - Poor surrogate recovery, M - Recovery/RPD poor for MS/MSD, SAMP/DUP, B - detected in blank, S - field sample as received did not meet NELAC sample acceptance criteria, L - Subcontracted Lab used, N - NELAC certified analysis

Client Name: Test America
Contact: Trupti Mistry
Address: 17461 Derian Ave
Suite 100
Irvine, CA 92614

Page: Page 13 of 18
Lab Proj #: P0803346
Report Date: 04/09/08
Client Proj Name: IRC1931
Client Proj #: IRC1931

Prep Method: Volatile Fatty Acids by Ion Chromatography
Analysis Method: Volatile Fatty Acids by Ion Chromatography

M080404009-MB

	Result		TrueSpikeConc.	RDL	%Recovery	Ctl Limits
Acetic Acid	< 0.07	mg/L		0.07		- NA
Propionic Acid	< 0.07	mg/L		0.07		- NA
Butyric Acid	< 0.07	mg/L		0.07		- NA
Lactic Acid and HIBA	< 0.10	mg/L		0.10		- NA
Pyruvic Acid	< 0.07	mg/L		0.07		- NA
i-Pentanoic Acid	< 0.07	mg/L		0.07		- NA
Pentanoic Acid	< 0.07	mg/L		0.07		- NA
i-Hexanoic Acid	< 0.10	mg/L		0.10		- NA
Hexanoic Acid	< 0.10	mg/L		0.10		- NA

M080404009-LCS

	Result		TrueSpikeConc.	%Recovery	Ctl Limits
Acetic Acid	1.70	mg/L	2.00	85.00	70 - 130
Propionic Acid	1.70	mg/L	2.00	85.00	70 - 130
Butyric Acid	1.60	mg/L	2.00	80.00	70 - 130
Lactic Acid and HIBA	2.10	mg/L	2.00	105.00	70 - 130
Pyruvic Acid	2.00	mg/L	2.00	100.00	70 - 130
i-Pentanoic Acid	1.60	mg/L	2.00	80.00	70 - 130
Pentanoic Acid	1.60	mg/L	2.00	80.00	70 - 130
i-Hexanoic Acid	1.50	mg/L	2.00	75.00	70 - 130
Hexanoic Acid	1.40	mg/L	2.00	70.00	70 - 130

P0803346-01A-MS

	Result		TrueSpikeConc.	%Recovery	Ctl Limits
Pentanoic Acid	4.70	mg/L	2.00	95.00	70 - 130
i-Hexanoic Acid	2.00	mg/L	2.00	84.00	70 - 130
Hexanoic Acid	1.60	mg/L	2.00	63.00	70 - 130

P0803346-01A-MSD

	Result		TrueSpikeConc.	%Recovery	Ctl Limits	RPD	RPD Ctl Limits
Pentanoic Acid	4.60	mg/L	2.00	90.00	70 - 130	2.15	0 - 30
i-Hexanoic Acid	2.10	mg/L	2.00	89.00	70 - 130	4.88	0 - 30

Data Qualifiers: J - estimated value, U - Non detect, R - Poor surrogate recovery, M - Recovery/RPD poor for MS/MSD, SAMP/DUP, B - detected in blank, S - field sample as received did not meet NELAC sample acceptance criteria, L - Subcontracted Lab used, N - NELAC certified analysis

BOE-C6-0188430

Client Name: Test America
Contact: Trupti Mistry
Address: 17461 Derian Ave
Suite 100
Irvine, CA 92614

Page: Page 14 of 18
Lab Proj #: P0803346
Report Date: 04/09/08
Client Proj Name: IRC1931
Client Proj #: IRC1931

P0803346-01A-MSD

	Result		TrueSpikeConc.	%Recovery	Ctl Limits	RPD	RPD Ctl Limits
Hexanoic Acid	1 90	mg/L	2.00	78.00	70 - 130	17.14	0 - 30

Outlined Results indicate results outside of Control limits

Data Qualifiers: J - estimated value, U - Non detect, R - Poor surrogate recovery, M - Recovery/RPD poor for MS/MSD, SAMP/DUP, B - detected in blank, S - field sample as received did not meet NELAC sample acceptance criteria, L - Subcontracted Lab used, N - NELAC certified analysis

Client Name: Test America
Contact: Trupti Mistry
Address: 17461 Derian Ave
Suite 100
Irvine, CA 92614

Page: Page 15 of 18
Lab Proj #: P0803346
Report Date: 04/09/08
Client Proj Name: IRC1931
Client Proj #: IRC1931

Prep Method: Volatile Fatty Acids by Ion Chromatography
Analysis Method: Volatile Fatty Acids by Ion Chromatography

M080409020-MB

	Result		TrueSpikeConc.	RDL	%Recovery	Ctl Limits
Acetic Acid	< 0 07	mg/L		0.07		- NA
Propionic Acid	< 0.07	mg/L		0 07		- NA
Butyric Acid	< 0 07	mg/L		0.07		- NA
Lactic Acid and HIBA	0.08	mg/L		0.10		- NA
Pyruvic Acid	< 0.07	mg/L		0.07		- NA
i-Pentanoic Acid	< 0 07	mg/L		0.07		- NA
Pentanoic Acid	< 0.07	mg/L		0.07		- NA
Hexanoic Acid	< 0.10	mg/L		0.10		- NA

M080409020-LCS

	Result		TrueSpikeConc.	%Recovery	Ctl Limits
Acetic Acid	1.70	mg/L	2.00	85.00	70 - 130
Propionic Acid	1.80	mg/L	2.00	90.00	70 - 130
Butyric Acid	1.80	mg/L	2.00	90.00	70 - 130
Lactic Acid and HIBA	2.20	mg/L	2.00	110.00	70 - 130
Pyruvic Acid	2.00	mg/L	2.00	100.00	70 - 130
i-Pentanoic Acid	1.80	mg/L	2.00	90.00	70 - 130
Pentanoic Acid	1.70	mg/L	2.00	85.00	70 - 130
Hexanoic Acid	1.80	mg/L	2.00	90.00	70 - 130

Outlined Results indicate results outside of Control limits

Data Qualifiers: J - estimated value, U - Non detect, R - Poor surrogate recovery, M - Recovery/RPD poor for MS/MSD, SAMP/DUP, B - detected in blank, S - field sample as received did not meet NELAC sample acceptance criteria, L - Subcontracted Lab used, N - NELAC certified analysis

BOE-C6-0188431

Client Name: Test America
Contact: Trupti Mistry
Address: 17461 Derian Ave
Suite 100
Irvine, CA 92614

Page: Page 16 of 18
Lab Proj #: P0803346
Report Date: 04/09/08
Client Proj Name: IRC1931
Client Proj #: IRC1931

Prep Method: Volatile Fatty Acids by Ion Chromatography
Analysis Method: Volatile Fatty Acids by Ion Chromatography

M080409021-MB

	Result		TrueSpikeConc.	RDL	%Recovery	Ctl Limits
Acetic Acid	< 0.07	mg/L		0.07		- NA
Propionic Acid	< 0.07	mg/L		0.07		- NA
Butyric Acid	< 0.07	mg/L		0.07		- NA
Lactic Acid and HIBA	0.08	mg/L		0.10		- NA
Pyruvic Acid	< 0.07	mg/L		0.07		- NA
i-Pentanoic Acid	< 0.07	mg/L		0.07		- NA
Pentanoic Acid	< 0.07	mg/L		0.07		- NA
Hexanoic Acid	< 0.10	mg/L		0.10		- NA

M080409021-LCS

	Result		TrueSpikeConc.	%Recovery	Ctl Limits
Acetic Acid	1.70	mg/L	2.00	85.00	70 - 130
Propionic Acid	1.80	mg/L	2.00	90.00	70 - 130
Butyric Acid	1.80	mg/L	2.00	90.00	70 - 130
Lactic Acid and HIBA	2.20	mg/L	2.00	110.00	70 - 130
Pyruvic Acid	2.00	mg/L	2.00	100.00	70 - 130
i-Pentanoic Acid	1.80	mg/L	2.00	90.00	70 - 130
Pentanoic Acid	1.70	mg/L	2.00	85.00	70 - 130
Hexanoic Acid	1.80	mg/L	2.00	90.00	70 - 130

Outlined Results indicate results outside of Control limits

Data Qualifiers: J - estimated value, U - Non detect, R - Poor surrogate recovery, M - Recovery/RPD poor for MS/MSD, SAMP/DUP, B - detected in blank, S - field sample as received did not meet NELAC sample acceptance criteria, L - Subcontracted Lab used, N - NELAC certified analysis

Client Name: Test America
Contact: Trupti Mistry
Address: 17461 Derian Ave
Suite 100
Irvine, CA 92614

Page: Page 17 of 18
Lab Proj #: P0803346
Report Date: 04/09/08
Client Proj Name: IRC1931
Client Proj #: IRC1931

Prep Method: Volatile Fatty Acids by Ion Chromatography
Analysis Method: Volatile Fatty Acids by Ion Chromatography

M080409023-MB

	Result		TrueSpikeConc.	RDL	%Recovery	Ctl Limits
Acetic Acid	< 0.07	mg/L		0.07		- NA
Propionic Acid	< 0.07	mg/L		0.07		- NA
Butyric Acid	< 0.07	mg/L		0.07		- NA
Lactic Acid and HIBA	0.08	mg/L		0.10		- NA

M080409023-LCS

	Result		TrueSpikeConc.	%Recovery	Ctl Limits
Acetic Acid	1.70	mg/L	2.00	85.00	70 - 130
Propionic Acid	1.80	mg/L	2.00	90.00	70 - 130
Butyric Acid	1.80	mg/L	2.00	90.00	70 - 130
Lactic Acid and HIBA	2.20	mg/L	2.00	110.00	70 - 130

Outlined Results indicate results outside of Control limits

Data Qualifiers: J - estimated value, U - Non detect, R - Poor surrogate recovery, M - Recovery/RPD poor for MS/MSD, SAMP/DUP, B - detected in blank, S - field sample as received did not meet NELAC sample acceptance criteria, L - Subcontracted Lab used, N - NELAC certified analysis

BOE-C6-0188432

Client Name: Test America
Contact: Trupti Mistry
Address: 17461 Derian Ave
Suite 100
Irvine, CA 92614

Page: Page 18 of 18
Lab Proj #: P0803346
Report Date: 04/09/08
Client Proj Name: IRC1931
Client Proj #: IRC1931

Prep Method: Volatile Fatty Acids by Ion Chromatography
Analysis Method: Volatile Fatty Acids by Ion Chromatography

M080409025-MB

	Result		TrueSpikeConc.	RDL	%Recovery	Ctl Limits
Butyric Acid	< 0.07	mg/L		0.07		- NA

M080409025-LCS

	Result		TrueSpikeConc.	%Recovery	Ctl Limits
Butyric Acid	1.70	mg/L	2.00	85 00	70 - 130

Outlined Results indicate results outside of Control limits

Data Qualifiers: J - estimated value, U - Non detect, R - Poor surrogate recovery, M - Recovery/RPD poor for MS/MSD, SAMP/DUP, B - detected in blank, S - field sample as received did not meet NELAC sample acceptance criteria, L - Subcontracted Lab used, N - NELAC certified analysis

Chain of Custody Documents

P0803346

SUBCONTRACT ORDER

TestAmerica Irvine

IRC1931

SENDING LABORATORY:

TestAmerica Irvine
17461 Derian Avenue. Suite 100
Irvine, CA 92614
Phone: (949) 261-1022
Fax: (949) 260-3297
Project Manager: Trupti Mistry

RECEIVING LABORATORY:

Microseeps-SUB
220 William Pitt Way
Pittsburgh, PA 15238
Phone :412/826-5245
Fax: 412/826-3433
Project Location: California
Receipt Temperature:_____°C Ice: Y / N

Analysis	Units	Due	Expires	Comments
Sample ID: IRC1931-02	**Water**		**Sampled: 03/25/08 07:50**	
VFA-Microseeps OUT	mg/l	04/08/08	04/01/08 07:50	Microseeps; IC; J&Bflags;TestAmerica excel EDD
Containers Supplied:				
40 mL Amber Voa Vial (K)	40 mL Amber Voa Vial (L)			
Sample ID: IRC1931-03	**Water**		**Sampled: 03/25/08 08:40**	
VFA-Microseeps OUT	mg/l	04/08/08	04/01/08 08:40	Microseeps; IC; J&Bflags;TestAmerica excel EDD
Containers Supplied:				
40 mL Amber Voa Vial (K)	40 mL Amber Voa Vial (L)			
Sample ID: IRC1931-04	**Water**		**Sampled: 03/25/08 09:23**	
VFA-Microseeps OUT	mg/l	04/08/08	04/01/08 09:23	Microseeps; IC; J&Bflags;TestAmerica excel EDD
Containers Supplied:				
40 mL Amber Voa Vial (K)	40 mL Amber Voa Vial (L)			
Sample ID: IRC1931-05	**Water**		**Sampled: 03/25/08 09:24**	
VFA-Microseeps OUT	mg/l	04/08/08	04/01/08 09:24	Microseeps; IC; J&Bflags;TestAmerica excel EDD
Containers Supplied:				
40 mL Amber Voa Vial (K)	40 mL Amber Voa Vial (L)			
Sample ID: IRC1931-06	**Water**		**Sampled: 03/25/08 10:24**	
VFA-Microseeps OUT	mg/l	04/08/08	04/01/08 10:24	Microseeps; IC; J&Bflags;TestAmerica excel EDD
Containers Supplied:				
40 mL Amber Voa Vial (K)	40 mL Amber Voa Vial (L)			

Released By	Date/Time	Received By	Date/Time
[signature]	3/26/08 17:00	FedEx	3/26/08 17:00
		[signature]	3/27 1000

P0803346

SUBCONTRACT ORDER

TestAmerica Irvine

IRC1931

P0803346

Analysis	Units	Due	Expires	Comments
Sample ID: IRC1931-07	**Water**		**Sampled: 03/25/08 11:20**	
VFA-Microseeps OUT	mg/l	04/08/08	04/01/08 11:20	Microseeps; IC; J&Bflags;TestAmerica excel EDD
Containers Supplied:				
40 mL Amber Voa Vial (K)	40 mL Amber Voa Vial (L)			
Sample ID: IRC1931-08	**Water**		**Sampled: 03/25/08 11:21**	
VFA-Microseeps OUT	mg/l	04/08/08	04/01/08 11:21	Microseeps; IC; J&Bflags;TestAmerica excel EDD
Containers Supplied:				
40 mL Amber Voa Vial (K)	40 mL Amber Voa Vial (L)			
Sample ID: IRC1931-09	**Water**		**Sampled: 03/25/08 11:56**	
VFA-Microseeps OUT	mg/l	04/08/08	04/01/08 11:56	Microseeps; IC; J&Bflags;TestAmerica excel EDD
Containers Supplied:				
40 mL Amber Voa Vial (J)	40 mL Amber Voa Vial (K)			
Sample ID: IRC1931-10	**Water**		**Sampled: 03/25/08 12:30**	
VFA-Microseeps OUT	mg/l	04/08/08	04/01/08 12:30	Microseeps; IC; J&Bflags;TestAmerica excel EDD
Containers Supplied:				
40 mL Amber Voa Vial (K)	40 mL Amber Voa Vial (L)			
Sample ID: IRC1931-11	**Water**		**Sampled: 03/25/08 13:06**	
VFA-Microseeps OUT	mg/l	04/08/08	04/01/08 13:06	Microseeps; IC; J&Bflags;TestAmerica excel EDD
Containers Supplied:				
40 mL Amber Voa Vial (K)	40 mL Amber Voa Vial (L)			

[signature] 3/27

BOE-C6-0188434

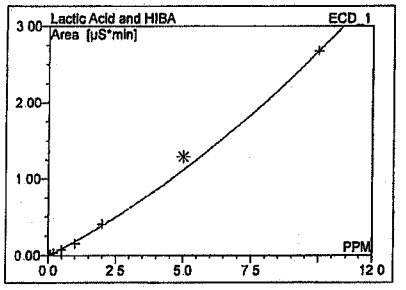
Volatile Fatty Acid Data

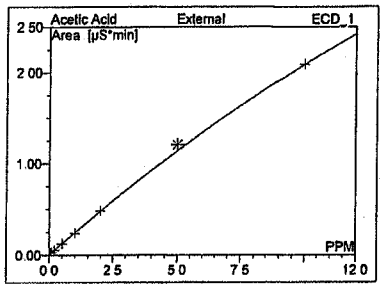
Operator:jblack Timebase:DX-500 Sequence:LLVFA 120507

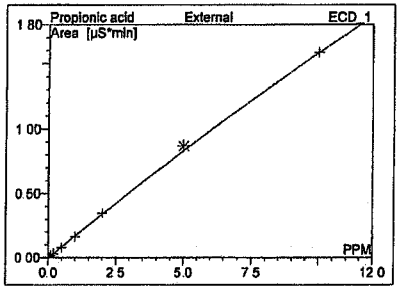
4/9/2008 10:46 AM

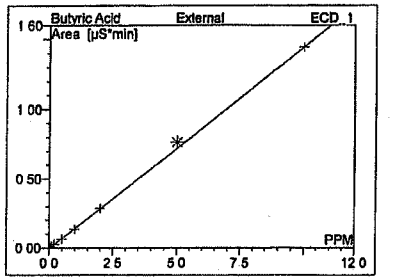
Calibration Batch Report

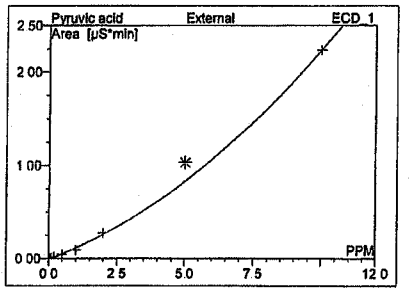
Sequence:	LLVFA 120507	Inj. Vol.:	1.0
Program:	PWM070716AA	Operator:	SEMIVOL13
Inj. Date/Time:	12/05/07	Run Time:	30.00

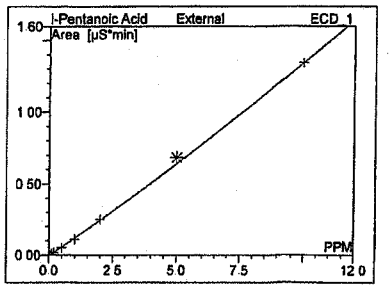










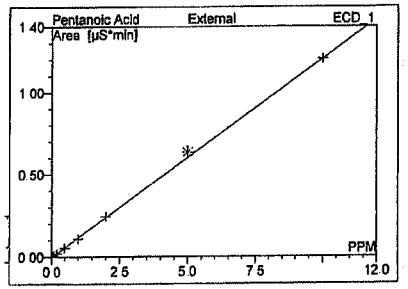


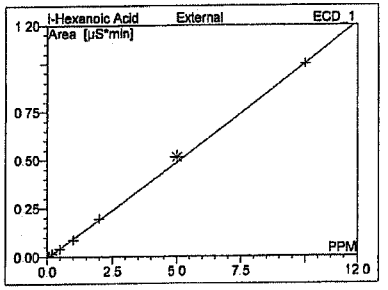
CATION_report/Calibration(Batch)

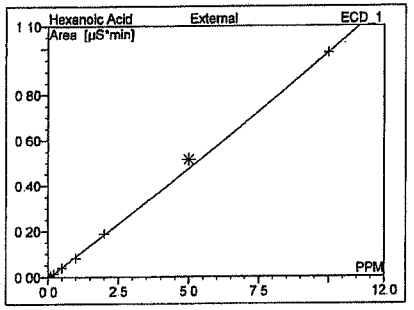
PeakNet 6 (r) Dionex 2001
Version 6 60 Build 1428

BOE-C6-0188435

Sequence:	LLVFA 120507	Inj. Vol.:	1.0
Program:	PWM070716AA	Operator:	n.a.
Inj. Date/Time:	12/05/07	Run Time:	30.00







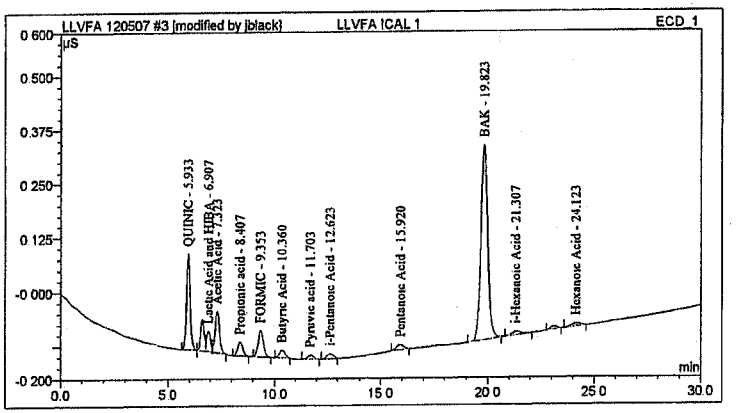
Peak Name	Cal.Mode	Cal.Type	Slope	#Points	Rel.Std.Dev. %	R-Square %
QUINIC	Total	QOff	0.000	7	n.a.	n.a.
Lactic Acid and HIBA	Total	QOff	0.181	7	4.070	99.973
Acetic Acid	Total	QOff	0.244	7	1.339	99.996
Propionic acid	Total	QOff	0.176	7	1.877	99.993
FORMIC	Total	QOff	0.000	7	n.a.	n.a.
Butyric Acid	Total	QOff	0.144	7	1.472	99.996
Pyruvic acid	Total	QOff	0.112	7	3.903	99.978
i-Pentanoic Acid	Total	QOff	0.122	7	2.083	99.992
Pentanoic Acid	Total	QOff	0.121	7	1.948	99.993
BAK	Total	QOff	0.000	7	n.a.	n.a.
i-Hexanoic Acid	Total	QOff	0.096	7	2.508	99.988
Hexanoic Acid	Total	QOff	0.093	7	2.625	99.987

MICROSEEPS

Sample Analysis Report

Sample Name:	LLVFA ICAL 1	**Sequence No:**	3
Sequence Name:	LLVFA 120507	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	12/5/2007 1:34 PM	**Analytical Method:**	AM23G
System Operator:	jblack	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	5.933	0.045	0.220	BMB	n.a.
3	Lactic Acid and HIBA	6.907	0.010	0.047	M	0.1048
4	Acetic Acid	7.323	0.023	0.095	MB	0.0756
5	Propionic acid	8.407	0.009	0.032	BMB	0.0757
6	FORMIC	9.353	0.017	0.061	BMB	n.a.
7	Butyric Acid	10.360	0.005	0.017	BMB	0.0695
8	Pyruvic acid	11.703	0.003	0.009	BMB*	0.1170
9	i-Pentanoic Acid	12.623	0.004	0.011	BMB	0.0805
10	Pentanoic Acid	15.920	0.004	0.011	BMB	0.0732
11	BAK	19.823	0.162	0.451	BMB*	n.a.
12	i-Hexanoic Acid	21.307	0.004	0.008	BMB*	0.0887
14	Hexanoic Acid	24.123	0.004	0.007	BMB*	0.0948



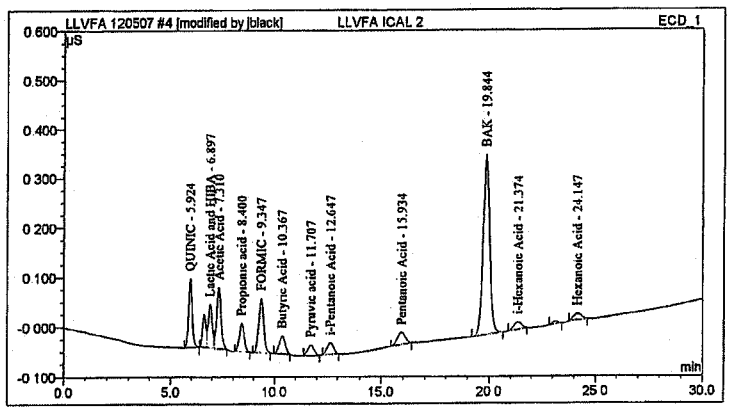
BOE-C6-0188436

MICROSEEPS

Sample Analysis Report

Sample Name:	LLVFA ICAL 2	**Sequence No:**	4
Sequence Name:	LLVFA 120507	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	12/5/2007 2:15 PM	**Analytical Method:**	AM23G
System Operator:	jblack	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	5.924	0.028	0.138	BMB	n.a.
3	Lactic Acid and HIBA	6.897	0.020	0.087	M *	0.1557
4	Acetic Acid	7.310	0.029	0.122	MB*	0.1024
5	Propionic acid	8.400	0.015	0.056	BMB	0.1136
6	FORMIC	9.347	0.030	0.110	BMB	n.a.
7	Butyric Acid	10.367	0.012	0.035	BMB	0.1125
8	Pyruvic acid	11.707	0.007	0.020	BMB	0.1498
9	i-Pentanoic Acid	12.647	0.008	0.023	BMB	0.1145
10	Pentanoic Acid	15.934	0.010	0.024	BMB	0.1184
11	BAK	19.844	0.129	0.364	BMB*	n.a.
12	i-Hexanoic Acid	21.374	0.007	0.015	BMB	0.1165
14	Hexanoic Acid	24.147	0.006	0.013	BMB	0.1169

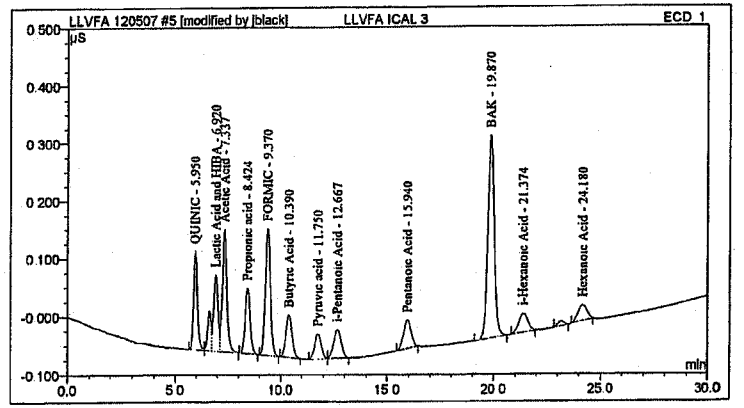


MICROSEEPS

Sample Analysis Report

Sample Name:	LLVFA ICAL 3	**Sequence No:**	5
Sequence Name:	LLVFA 120507	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	12/5/2007 2:56 PM	**Analytical Method:**	AM23G
System Operator:	jblack	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	5.950	0.035	0.169	BM	n.a.
3	Lactic Acid and HIBA	6.920	0.030	0.131	M	0.2121
4	Acetic Acid	7.337	0.053	0.210	MB	0.1984
5	Propionic acid	8.424	0.031	0.112	BMB	0.2041
6	FORMIC	9.370	0.060	0.218	BMB	n.a.
7	Butyric Acid	10.390	0.025	0.072	BMB	0.2059
8	Pyruvic acid	11.750	0.016	0.043	BM	0.2241
9	i-Pentanoic Acid	12.667	0.020	0.048	MB	0.2064
10	Pentanoic Acid	15.940	0.020	0.048	BMB	0.2005
11	BAK	19.870	0.124	0.350	BMB*	n.a.
12	i-Hexanoic Acid	21.374	0.015	0.032	BMB	0.2074
14	Hexanoic Acid	24.180	0.013	0.026	BMB	0.1924



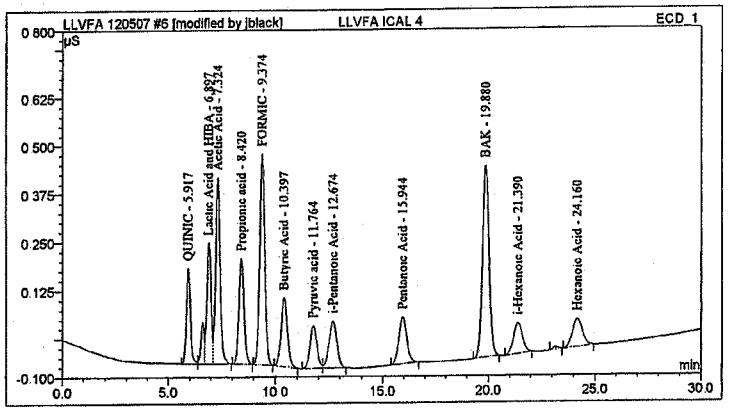
BOE-C6-0188437

MICROSEEPS

Sample Analysis Report

Sample Name:	LLVFA ICAL 4	**Sequence No:**	6
Sequence Name:	LLVFA 120507	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	12/5/2007 3:37 PM	**Analytical Method:**	AM23G
System Operator:	jblack	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	5.917	0.052	0.247	BM	n.a.
3	Lactic Acid and HIBA	6.897	0.073	0.313	M *	0.4396
4	Acetic Acid	7.324	0.121	0.481	MB	0.4822
5	Propionic acid	8.420	0.077	0.274	BMB	0.4687
6	FORMIC	9.374	0.150	0.547	BMB	n.a.
7	Butyric Acid	10.397	0.064	0.179	BMB	0.4723
8	Pyruvic acid	11.764	0.042	0.112	BM	0.4455
9	i-Pentanoic Acid	12.674	0.052	0.123	MB	0.4706
10	Pentanoic Acid	15.944	0.054	0.121	BMB	0.4784
11	BAK	19.880	0.173	0.495	BMB*	n.a.
12	i-Hexanoic Acid	21.390	0.039	0.080	BMB	0.4581
14	Hexanoic Acid	24.160	0.039	0.072	BMB	0.4742



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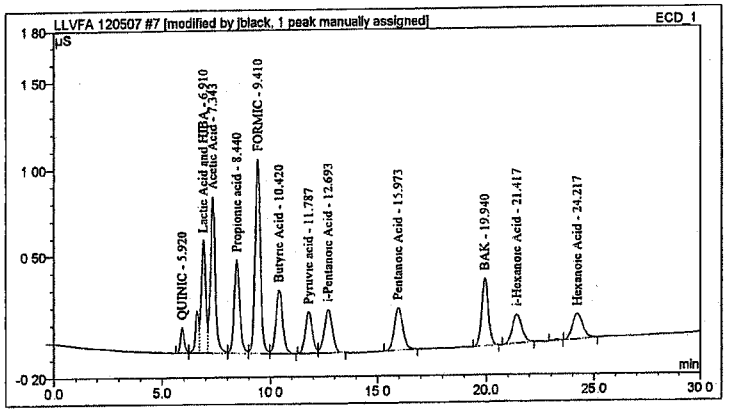
Sample Analysis Report

Sample Name:	LLVFA ICAL 5	**Sequence No:**	7
Sequence Name:	LLVFA 120507	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	12/5/2007 4:18 PM	**Analytical Method:**	AM23G
System Operator:	jblack	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	5.920	0.031	0.148	BM ^	n.a.
3	Lactic Acid and HIBA	6.910	0.152	0.649	M	0.8523
4	Acetic Acid	7.343	0.238	0.902	M	0.9700
5	Propionic acid	8.440	0.162	0.539	M	0.9565
6	FORMIC	9.410	0.318	1.121	M	n.a.
7	Butyric Acid	10.420	0.135	0.364	MB	0.9642
8	Pyruvic acid	11.787	0.090	0.240	BM	0.8242
9	i-Pentanoic Acid	12.693	0.111	0.250	MB	0.9395
10	Pentanoic Acid	15.973	0.110	0.244	BMB	0.9446
11	BAK	19.940	0.137	0.390	BMB*	n.a.
12	i-Hexanoic Acid	21.417	0.085	0.167	BMB	0.9348
14	Hexanoic Acid	24.217	0.081	0.146	BMB	0.9248



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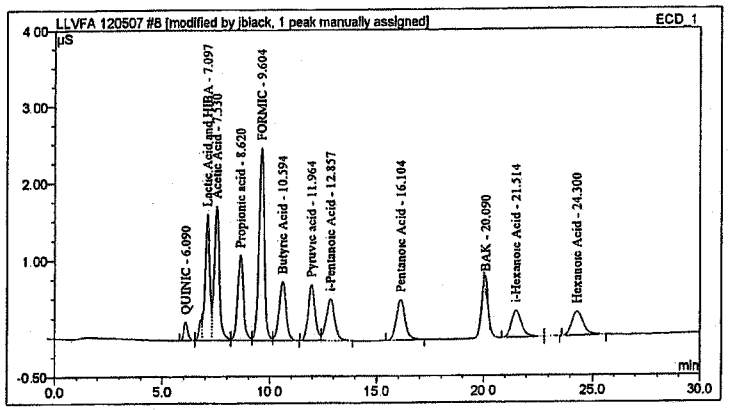
Sample Analysis Report

Sample Name:	LLVFA ICAL 6	**Sequence No:**	8
Sequence Name:	LLVFA 120507	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	12/5/2007 4:59 PM	**Analytical Method:**	AM23G
System Operator:	jblack	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	6.090	0.053	0.236	BM *^	n.a.
3	Lactic Acid and HIBA	7.097	0.407	1.634	M *	2.0858
4	Acetic Acid	7.530	0.484	1.731	M *	2.0222
5	Propionic acid	8.620	0.346	1.096	M *	2.0323
6	FORMIC	9.604	0.729	2.490	M *	n.a.
7	Butyric Acid	10.594	0.288	0.757	MB	2.0262
8	Pyruvic acid	11.964	0.273	0.715	BM	2.0895
9	i-Pentanoic Acid	12.857	0.249	0.534	MB	2.0393
10	Pentanoic Acid	16.104	0.242	0.513	BMB	2.0357
11	BAK	20.090	0.028	0.186	BMB	n.a.
12	i-Hexanoic Acid	21.514	0.194	0.347	BM	2.0455
14	Hexanoic Acid	24.300	0.188	0.309	BMB	2.0478



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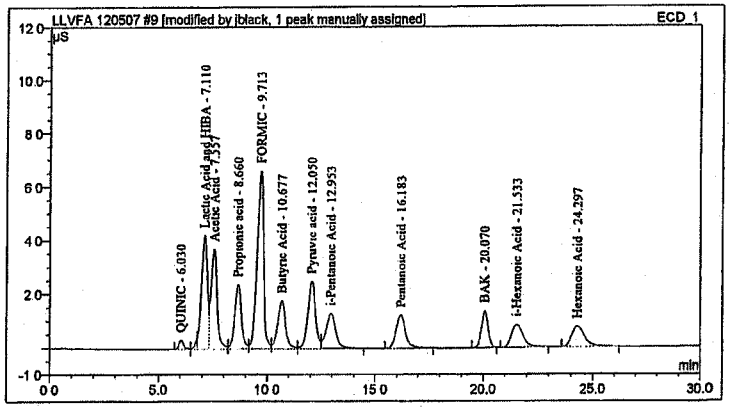
Sample Analysis Report

Sample Name:	LLVFA ICAL 7	**Sequence No:**	9
Sequence Name:	LLVFA 120507	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	12/5/2007 5:40 PM	**Analytical Method:**	AM23G
System Operator:	jblack	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	6.030	0.088	0.340	BM ^	n.a.
3	Lactic Acid and HIBA	7.110	1.288	4.234	M *	5.6328
4	Acetic Acid	7.557	1.205	3.716	M *	5.3269
5	Propionic acid	8.660	0.869	2.394	M *	5.2306
6	FORMIC	9.713	2.290	6.631	M	n.a.
7	Butyric Acid	10.677	0.764	1.773	M	5.3103
8	Pyruvic acid	12.050	1.032	2.504	M	5.8565
9	i-Pentanoic Acid	12.953	0.682	1.299	MB*	5.3241
10	Pentanoic Acid	16.183	0.634	1.225	BMB	5.2784
11	BAK	20.070	0.476	1.367	BMB*	n.a.
12	i-Hexanoic Acid	21.533	0.515	0.838	BMB	5.2784
13	Hexanoic Acid	24.297	0.515	0.747	BMB	5.4137



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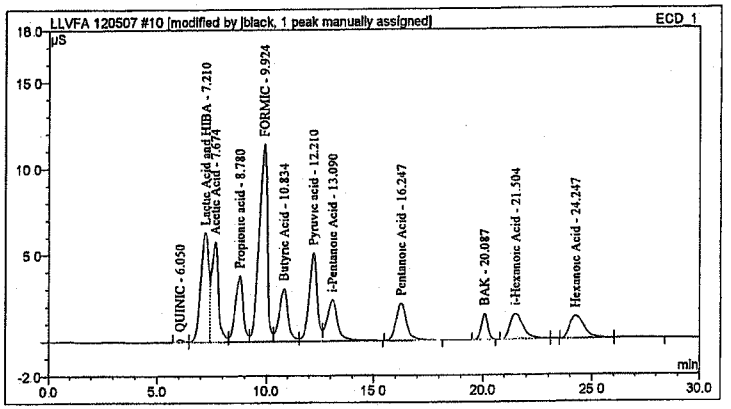
Sample Analysis Report

Sample Name:	LLVFA ICAL 8	**Sequence No:**	10
Sequence Name:	LLVFA 120507	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	12/5/2007 6:21 PM	**Analytical Method:**	AM23G
System Operator:	jblack	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	6.050	0.048	0.147	BM ^	n.a.
2	Lactic Acid and HIBA	7.210	2.674	6.325	M	9.9988
3	Acetic Acid	7.674	2.089	5.772	M	9.9993
4	Propionic acid	8.780	1.585	3.803	M	9.9991
5	FORMIC	9.924	4.905	11.410	M	n.a.
6	Butyric Acid	10.834	1.446	3.056	M	9.9994
7	Pyruvic acid	12.210	2.238	5.097	M	9.9991
8	i-Pentanoic Acid	13.090	1.344	2.358	MB	9.9992
9	Pentanoic Acid	16.247	1.202	2.160	BMB	9.9992
10	BAK	20.087	0.520	1.505	BMB*	n.a.
11	i-Hexanoic Acid	21.504	1.001	1.478	BMb*	9.9990
13	Hexanoic Acid	24.247	0.983	1.300	BMB	9.9990



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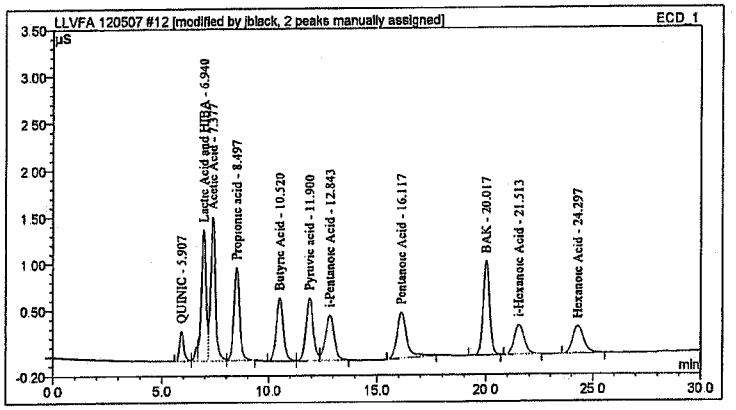
Sample Analysis Report

Sample Name:	ICV	**Sequence No:**	12
Sequence Name:	LLVFA 120507	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	12/5/2007 7:43 PM	**Analytical Method:**	AM23G
System Operator:	jblack	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	5.907	0.073	0.323	BM	n.a.
3	Lactic Acid and HIBA	6.940	0.351	1.406	M *^	1.8248
4	Acetic Acid	7.377	0.428	1.541	M *	1.7774
5	Propionic acid	8.497	0.312	0.997	MB*	1.8313
6	Butyric Acid	10.520	0.260	0.674	BM ^	1.8294
7	Pyruvic acid	11.900	0.263	0.669	M	2.0246
8	i-Pentanoic Acid	12.843	0.225	0.481	MB	1.8472
9	Pentanoic Acid	16.117	0.253	0.494	BMB	2.1283
10	BAK	20.017	0.353	1.006	BMB*	n.a.
11	i-Hexanoic Acid	21.513	0.171	0.316	BMB	1.8110
12	Hexanoic Acid	24.297	0.175	0.292	BMB	1.9173



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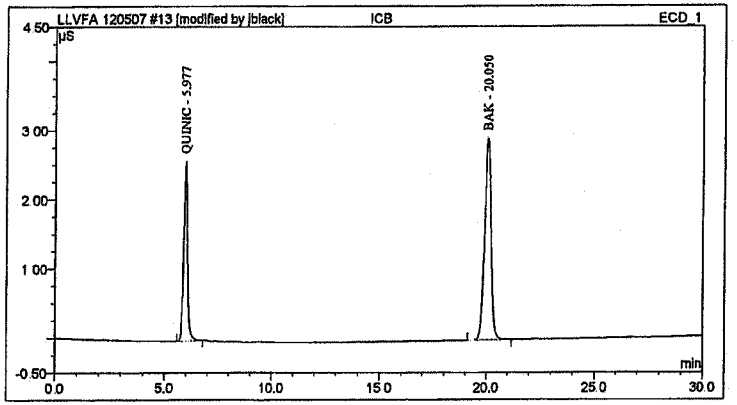
Sample Analysis Report

Sample Name:	ICB	**Sequence No:**	13
Sequence Name:	LLVFA 120507	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	12/5/2007 8:25 PM	**Analytical Method:**	AM23G
System Operator:	jblack	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	5.977	0.560	2.591	BMB	n.a.
2	BAK	20.050	1.021	2.912	BMB*	n.a.



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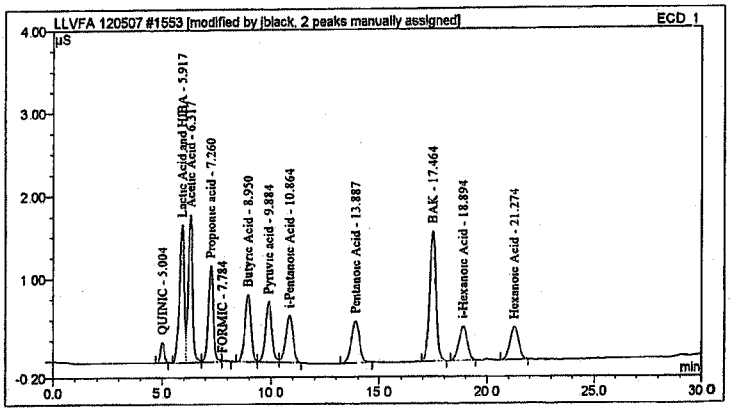
Sample Analysis Report

Sample Name:	CCV	**Sequence No:**	1553
Sequence Name:	LLVFA 120507	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	4/4/2008 11:00 AM	**Analytical Method:**	AM23G
System Operator:	jblack	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	5.004	0.049	0.250	BMB^	n.a.
2	Lactic Acid and HIBA	5.917	0.422	1.672	BM *	2.1527
3	Acetic Acid	6.317	0.427	1.789	M *	1.7759
4	Propionic acid	7.260	0.319	1.171	M *	1.8772
5	FORMIC	7.784	0.004	0.015	MB*^	n.a.
6	Butyric Acid	8.950	0.265	0.815	BM	1.8689
7	Pyruvic acid	9.884	0.250	0.733	M	1.9448
8	i-Pentanoic Acid	10.864	0.219	0.567	MB	1.8047
9	Pentanoic Acid	13.887	0.225	0.505	BMB	1.8966
10	BAK	17.464	0.537	1.569	BMB	n.a.
11	i-Hexanoic Acid	18.894	0.187	0.408	BMB	1.9740
12	Hexanoic Acid	21.274	0.188	0.396	BMB	2.0522



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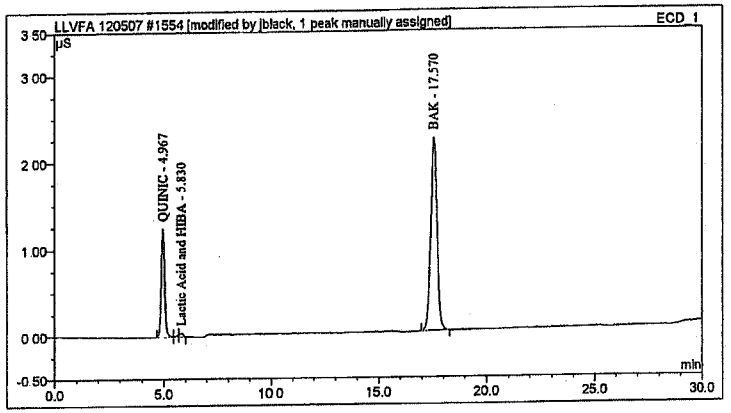
Sample Analysis Report

Sample Name:	CCB	**Sequence No:**	1554
Sequence Name:	LLVFA 120507	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	4/4/2008 12:22 PM	**Analytical Method:**	AM23G
System Operator:	jblack	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	4.967	0.228	1.251	BM	n.a.
3	Lactic Acid and HIBA	5.830	0.008	0.043	MB*	0.0911
4	BAK	17.570	0.742	2.221	BMB	n.a.



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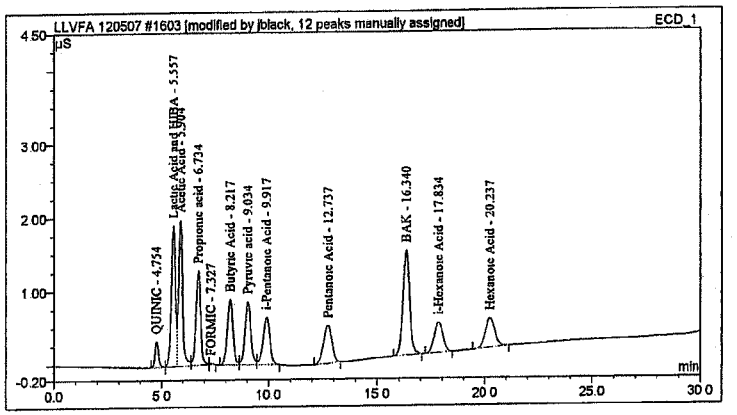
Sample Analysis Report

Sample Name:	CCV	**Sequence No:**	1603
Sequence Name:	LLVFA 120507	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	4/7/2008 1:42 PM	**Analytical Method:**	AM23G
System Operator:	jblack	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	4.754	0.068	0.349	BM *^	n.a.
2	Lactic Acid and HIBA	5.557	0.444	1.913	M *^	2.2540
3	Acetic Acid	5.904	0.457	1.979	M ^	1.9054
4	Propionic acid	6.734	0.328	1.279	M ^	1.9251
5	FORMIC	7.327	0.004	0.018	MB^	n.a.
6	Butyric Acid	8.217	0.270	0.889	BM ^	1.8991
7	Pyruvic acid	9.034	0.267	0.852	M ^	2.0523
8	i-Pentanoic Acid	9.917	0.236	0.634	MB^	1.9327
9	Pentanoic Acid	12.737	0.225	0.512	BMB^	1.8931
10	BAK	16.340	0.516	1.427	BMB^	n.a.
11	i-Hexanoic Acid	17.834	0.189	0.404	BMB^	1.9956
12	Hexanoic Acid	20.237	0.202	0.394	BMB*^	2.2003



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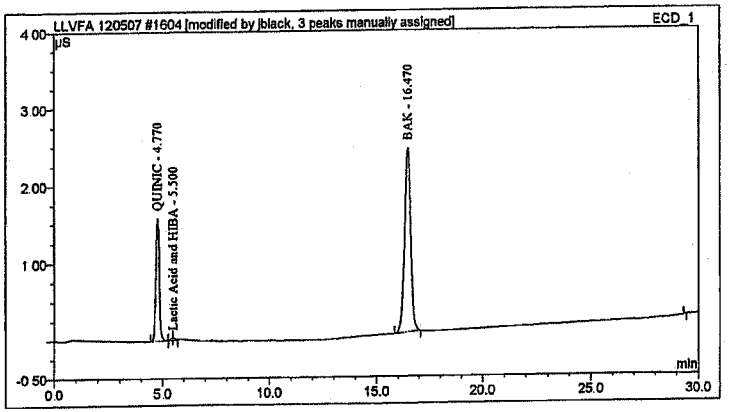
Sample Analysis Report

Sample Name:	CCB	**Sequence No:**	1604
Sequence Name:	LLVFA 120507	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	4/7/2008 2:23 PM	**Analytical Method:**	AM23G
System Operator:	jblack	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	4.770	0.280	1.595	BMB^	n.a.
3	Lactic Acid and HIBA	5.500	0.005	0.036	MB*	0.0731
4	BAK	16.470	0.821	2.380	BMB^	n.a.



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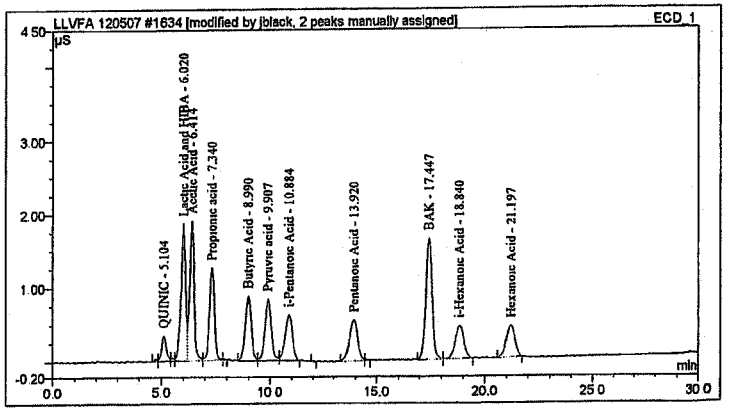
Sample Analysis Report

Sample Name:	CCV	**Sequence No:**	1634
Sequence Name:	LLVFA 120507	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	4/8/2008 11:41 AM	**Analytical Method:**	AM23G
System Operator:	jblack	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
2	QUINIC	5.104	0.081	0.343	M *	n.a.
4	Lactic Acid and HIBA	6.020	0.467	1.861	M ^	2.3600
5	Acetic Acid	6.414	0.452	1.888	M	1.8825
6	Propionic acid	7.340	0.335	1.246	M	1.9672
8	Butyric Acid	8.990	0.281	0.868	BM	1.9766
9	Pyruvic acid	9.907	0.286	0.828	M	2.1693
10	i-Pentanoic Acid	10.884	0.240	0.614	MB	1.9655
12	Pentanoic Acid	13.920	0.247	0.555	BM	2.0806
14	BAK	17.447	0.554	1.637	BM	n.a.
15	i-Hexanoic Acid	18.840	0.202	0.443	MB^	2.1271
16	Hexanoic Acid	21.197	0.201	0.425	BMB	2.1890



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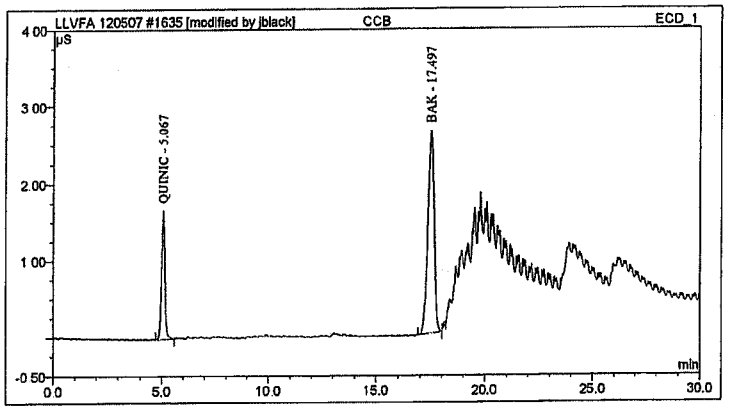
Sample Analysis Report

Sample Name:	CCB	**Sequence No:**	1635
Sequence Name:	LLVFA 120507	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	4/8/2008 12:22 PM	**Analytical Method:**	AM23G
System Operator:	jblack	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	5.067	0.314	1.676	BMB*	n.a.
2	BAK	17.497	0.873	2.629	BMB	n.a.



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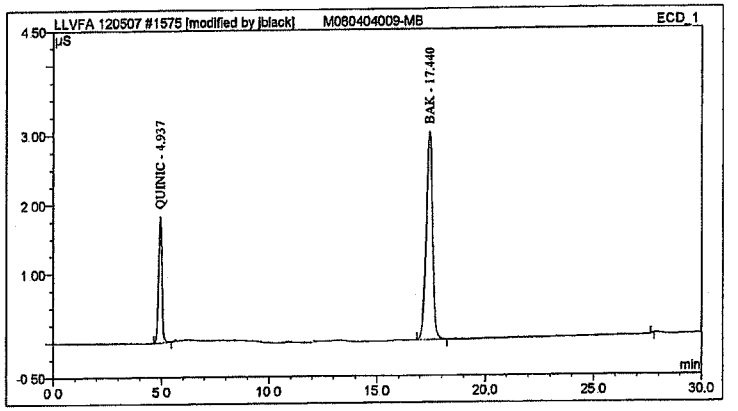
Sample Analysis Report

Sample Name:	M080404009-MB	**Sequence No:**	1575
Sequence Name:	LLVFA 120507	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	4/5/2008 3:27 AM	**Analytical Method:**	AM23G
System Operator:	jblack	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	4.937	0.332	1.832	BMB*	n.a.
2	BAK	17.440	1.016	2.998	BMB	n.a.



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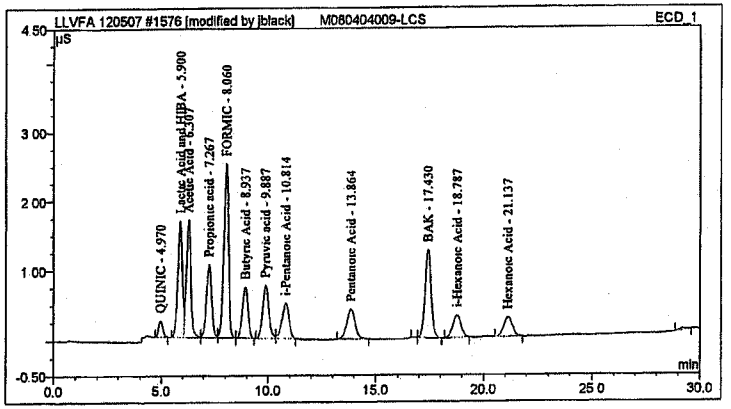
Sample Analysis Report

Sample Name:	M080404009-LCS	**Sequence No:**	1576
Sequence Name:	LLVFA 120507	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	4/5/2008 4:49 AM	**Analytical Method:**	AM23G
System Operator:	jblack	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	4.970	0.049	0.230	BMB	n.a.
2	Lactic Acid and HIBA	5.900	0.420	1.673	BM	2.1471
3	Acetic Acid	6.307	0.415	1.684	M	1.7249
4	Propionic acid	7.267	0.289	1.045	M	1.7005
5	FORMIC	8.060	0.631	2.507	MB	n.a.
6	Butyric Acid	8.937	0.223	0.727	BMB	1.5742
7	Pyruvic acid	9.887	0.252	0.757	BM	1.9569
8	i-Pentanoic Acid	10.814	0.191	0.498	MB	1.5827
9	Pentanoic Acid	13.864	0.192	0.423	BMB	1.6206
11	BAK	17.430	0.417	1.257	MB	n.a.
12	i-Hexanoic Acid	18.787	0.137	0.313	BMB	1.4677
13	Hexanoic Acid	21.137	0.129	0.277	BMB	1.4336



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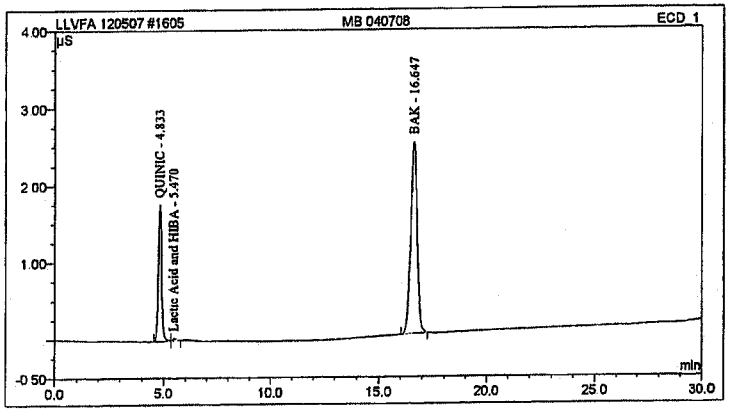
Sample Analysis Report

Sample Name:	MB 040708	**Sequence No:**	1605
Sequence Name:	LLVFA 120507	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	4/7/2008 3:04 PM	**Analytical Method:**	AM23G
System Operator:	jblack	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	4.833	0.313	1.774	BM	n.a.
2	Lactic Acid and HIBA	5.470	0.005	0.026	MB	0.0770
3	BAK	16.647	0.858	2.484	BMB	n.a.



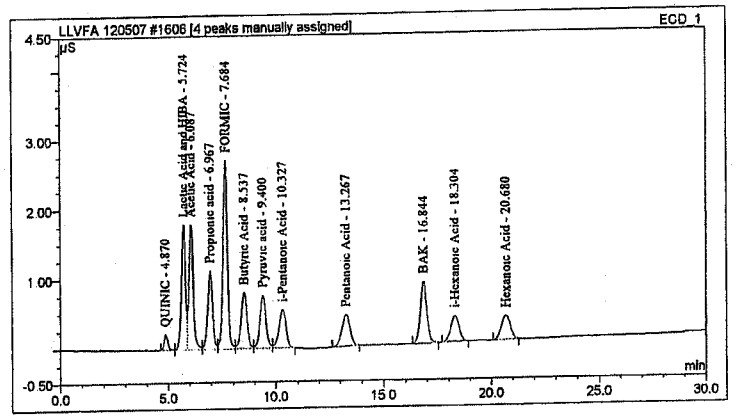
BOE-C6-0188445

MICROSEEPS

Sample Analysis Report

Sample Name:	LCS 040708	**Sequence No:**	1606
Sequence Name:	LLVFA 120507	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	4/7/2008 4:26 PM	**Analytical Method:**	AM23G
System Operator:	jblack	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	4.870	0.046	0.227	BMB	n.a.
2	Lactic Acid and HIBA	5.724	0.421	1.798	BM ^	2.1516
3	Acetic Acid	6.087	0.421	1.790	M	1.7485
4	Propionic acid	6.967	0.300	1.128	M	1.7626
5	FORMIC	7.684	0.675	2.714	M	n.a.
6	Butyric Acid	8.537	0.258	0.809	M	1.8216
7	Pyruvic acid	9.400	0.253	0.767	M	1.9600
8	i-Pentanoic Acid	10.327	0.214	0.554	MB	1.7608
9	Pentanoic Acid	13.267	0.201	0.457	BMB^	1.6999
10	BAK	16.844	0.305	0.889	BMB	n.a.
11	i-Hexanoic Acid	18.304	0.168	0.374	BMB^	1.7866
12	Hexanoic Acid	20.680	0.165	0.348	BMB^	1.8073

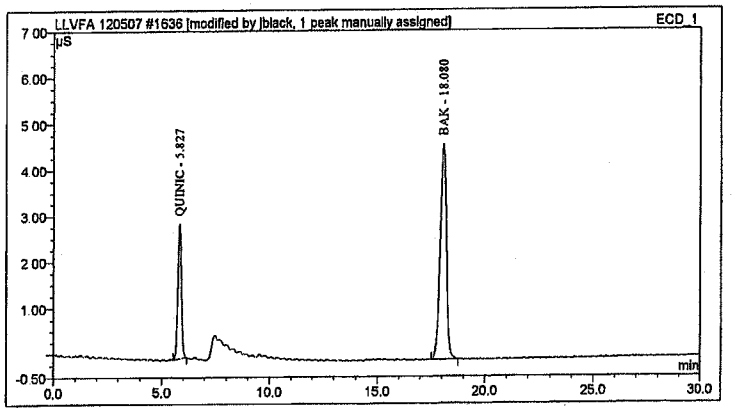


MICROSEEPS

Sample Analysis Report

Sample Name:	M080407016-MB	**Sequence No:**	1636
Sequence Name:	LLVFA 120507	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	4/8/2008 1:03 PM	**Analytical Method:**	AM23G
System Operator:	jblack	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	5.827	0.581	2.930	BMB^	n.a.
2	BAK	18.080	1.577	4.686	BMB	n.a.



BOE-C6-0188446

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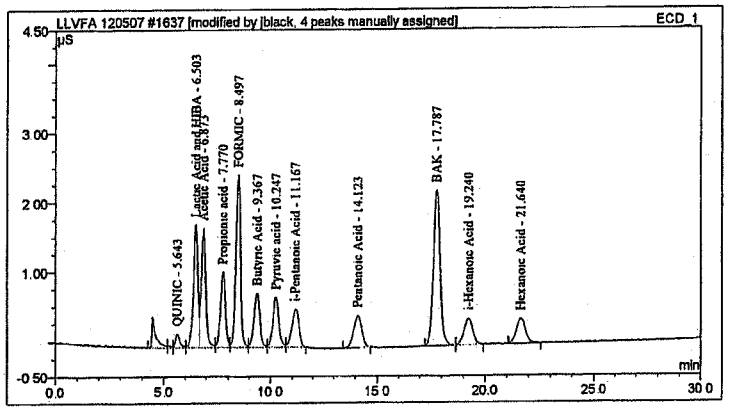
Sample Analysis Report

Sample Name:	M080407016-LCS	**Sequence No:**	1637
Sequence Name:	LLVFA 120507	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	4/8/2008 3:06 PM	**Analytical Method:**	AM23G
System Operator:	jblack	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
3	QUINIC	5.643	0.046	0.190	M *^	n.a.
4	Lactic Acid and HIBA	6.503	0.432	1.771	M *^	2.2006
5	Acetic Acid	6.873	0.425	1.715	M	1.7687
6	Propionic acid	7.770	0.297	1.086	M	1.7424
7	FORMIC	8.497	0.630	2.480	M	n.a.
8	Butyric Acid	9.367	0.248	0.779	M	1.7485
9	Pyruvic acid	10.247	0.234	0.718	M	1.8392
10	i-Pentanoic Acid	11.167	0.205	0.544	MB	1.6934
11	Pentanoic Acid	14.123	0.198	0.457	BMB	1.6711
12	BAK	17.787	0.798	2.233	BM	n.a.
13	i-Hexanoic Acid	19.240	0.172	0.375	MB^	1.8294
14	Hexanoic Acid	21.640	0.173	0.355	BMB*^	1.8916



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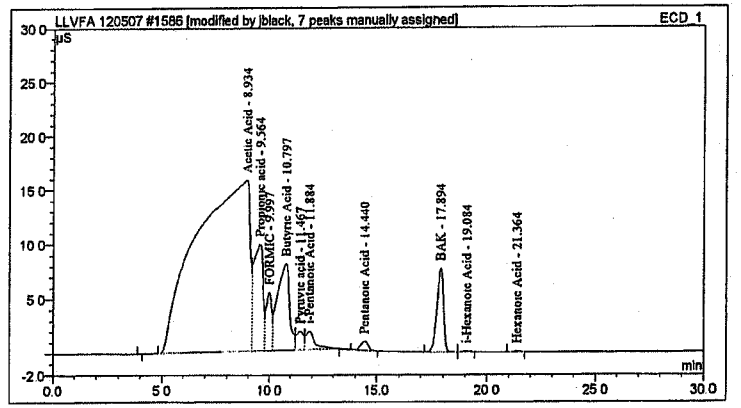
Sample Analysis Report

Sample Name:	P0803346-01A	**Sequence No:**	1586
Sequence Name:	LLVFA 120507	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	4/5/2008 11:40 AM	**Analytical Method:**	AM23G
System Operator:	jblack	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
2	Acetic Acid	8.934	44.632	15.673	BM ^	n.a.
3	Propionic acid	9.564	5.006	9.750	M ^	n.a.
4	FORMIC	9.997	1.596	5.337	M ^	n.a.
5	Butyric Acid	10.797	5.356	7.933	M *^	36.3899
6	Pyruvic acid	11.467	0.661	1.701	M *^	4.2119
7	i-Pentanoic Acid	11.884	0.840	1.688	MB*^	6.4744
8	Pentanoic Acid	14.440	0.334	0.815	BMB^	2.7967
9	BAK	17.894	2.599	7.631	BM	n.a.
10	i-Hexanoic Acid	19.084	0.027	0.072	MB	0.3333
11	Hexanoic Acid	21.364	0.027	0.066	BMB	0.3425



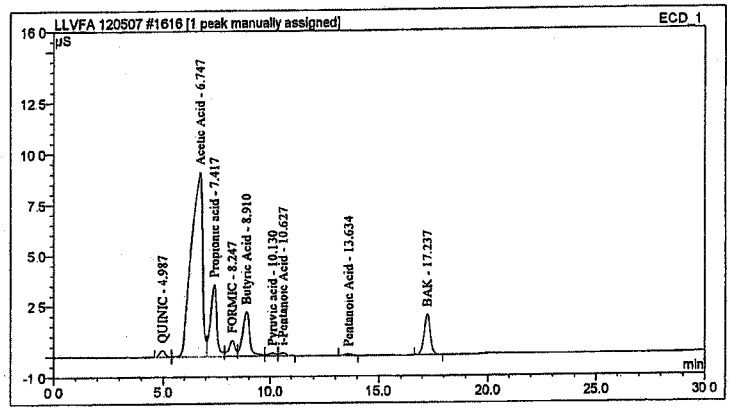
BOE-C6-0188447

MICROSEEPS

Sample Analysis Report

Sample Name:	P0803346-01A 10X	**Sequence No:**	1616
Sequence Name:	LLVFA 120507	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	4/7/2008 11:18 PM	**Analytical Method:**	AM23G
System Operator:	jblack	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	4.987	0.101	0.334	BM	n.a.
2	Acetic Acid	6.747	5.575	9.061	M	n.a.
3	Propionic acid	7.417	1.227	3.553	M	7.5526
4	FORMIC	8.247	0.266	0.779	M	n.a.
5	Butyric Acid	8.910	0.837	2.186	M	5.8153
6	Pyruvic acid	10.130	0.054	0.130	M ^	0.5450
7	i-Pentanoic Acid	10.627	0.054	0.139	MB	0.4843
8	Pentanoic Acid	13.634	0.030	0.073	BMB	0.2819
9	BAK	17.237	0.665	1.985	BMB	n.a.



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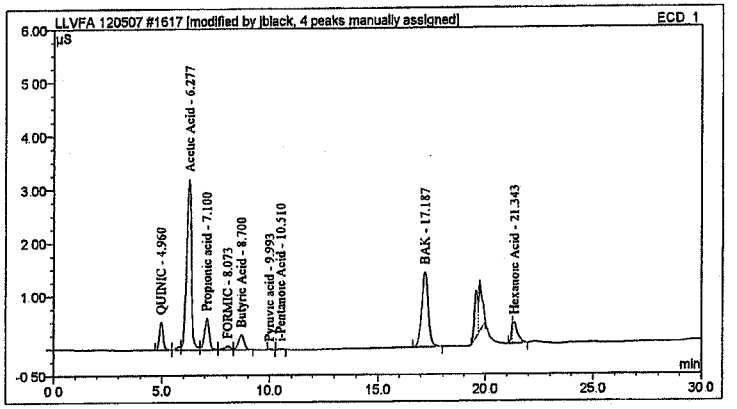
Sample Analysis Report

Sample Name:	P0803346-01A 100X	**Sequence No:**	1617
Sequence Name:	LLVFA 120507	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	4/7/2008 11:59 PM	**Analytical Method:**	AM23G
System Operator:	jblack	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	4.960	0.106	0.533	BM	n.a.
3	Acetic Acid	6.277	0.832	3.204	M *	3.5736
4	Propionic acid	7.100	0.152	0.589	M *	0.9009
5	FORMIC	8.073	0.022	0.065	M *^	n.a.
6	Butyric Acid	8.700	0.082	0.272	MB*	0.6014
7	Pyruvic acid	9.993	0.001	0.007	BMB^	0.0991
8	i-Pentanoic Acid	10.510	0.002	0.010	BMB	0.0653
9	BAK	17.187	0.482	1.409	BMB	n.a.
13	Hexanoic Acid	21.343	0.103	0.396	MB^	1.1596



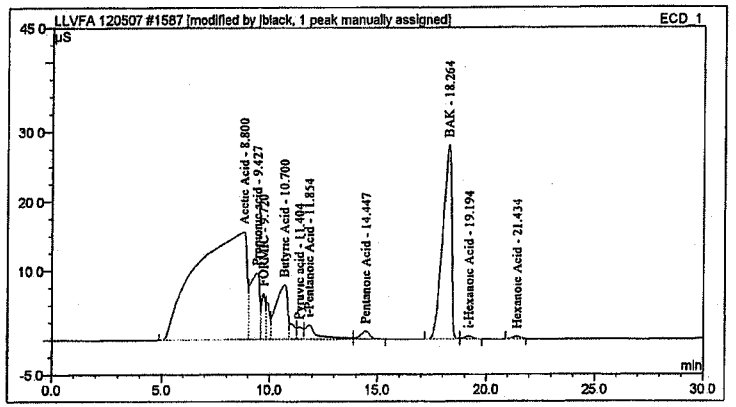
BOE-C6-0188448

MICROSEEPS

Sample Analysis Report

Sample Name:	P0803346-01A-MS	**Sequence No:**	1587
Sequence Name:	LLVFA 120507	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	4/5/2008 12:21 PM	**Analytical Method:**	AM23G
System Operator:	jblack	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	Acetic Acid	8.800	41.587	15.557	BM *	n.a.
2	Propionic acid	9.427	4.802	9.602	M *	n.a.
3	FORMIC	9.720	1.359	6.599	M *	n.a.
5	Butyric Acid	10.700	4.900	7.861	M *	33.3502
7	Pyruvic acid	11.404	0.557	1.788	M *^	3.6945
8	i-Pentanoic Acid	11.854	1.403	2.077	M *	10.4025
9	Pentanoic Acid	14.447	0.565	1.152	MB*	4.7114
10	BAK	18.264	13.229	27.990	BM	n.a.
11	i-Hexanoic Acid	19.194	0.192	0.433	MB	2.0332
12	Hexanoic Acid	21.434	0.147	0.336	BMB	1.6252

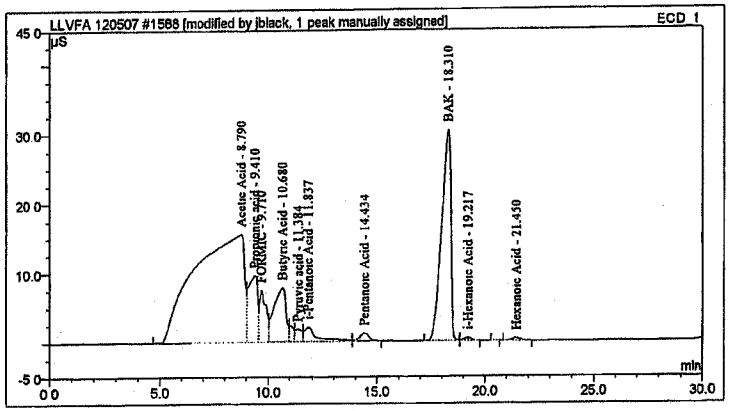


MICROSEEPS

Sample Analysis Report

Sample Name:	P0803346-01A-MSD	**Sequence No:**	1588
Sequence Name:	LLVFA 120507	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	4/5/2008 1:02 PM	**Analytical Method:**	AM23G
System Operator:	jblack	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	Acetic Acid	8.790	41.345	15.541	BM	n.a.
2	Propionic acid	9.410	4.736	9.596	M	n.a.
3	FORMIC	9.710	2.562	7.483	M *	n.a.
4	Butyric Acid	10.680	5.029	7.835	M *	34.2091
6	Pyruvic acid	11.384	0.602	1.782	M *^	3.9183
7	i-Pentanoic Acid	11.837	1.381	2.074	M *	10.2523
8	Pentanoic Acid	14.434	0.551	1.139	MB*	4.5909
9	BAK	18.310	15.240	30.395	BM	n.a.
10	i-Hexanoic Acid	19.217	0.197	0.454	MB	2.0801
12	Hexanoic Acid	21.450	0.173	0.370	BMB	1.9003



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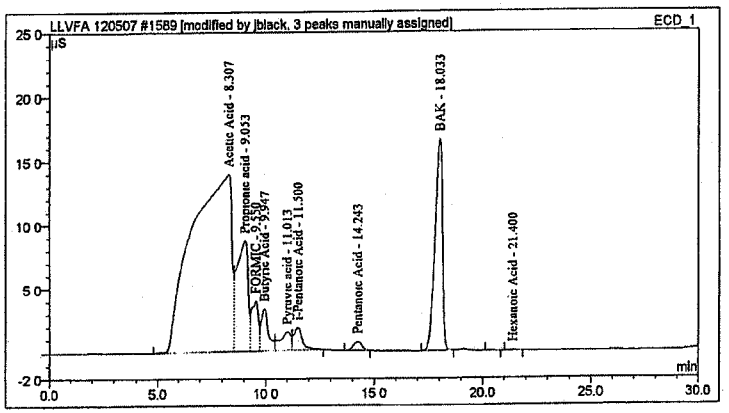
Sample Analysis Report

Sample Name:	P0803346-02A	**Sequence No:**	1589
Sequence Name:	LLVFA 120507	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	4/5/2008 1:43 PM	**Analytical Method:**	AM23G
System Operator:	jblack	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	Acetic Acid	8.307	29.061	13.864	BM	n.a.
2	Propionic acid	9.053	5.108	8.642	M *	n.a.
3	FORMIC	9.550	1.379	3.898	M *	n.a.
4	Butyric Acid	9.947	1.296	3.259	M ^	8.9724
5	Pyruvic acid	11.013	0.834	1.438	M ^	5.0112
6	i-Pentanoic Acid	11.500	0.799	1.740	MB	6.1789
7	Pentanoic Acid	14.243	0.295	0.670	BMB^	2.4771
8	BAK	18.033	6.621	16.538	BMB	n.a.
10	Hexanoic Acid	21.400	0.020	0.048	BMB	0.2683



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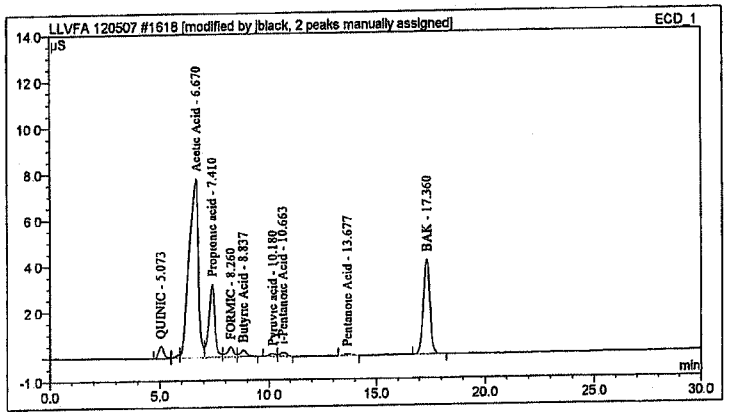
Sample Analysis Report

Sample Name:	P0803346-02A 10X	**Sequence No:**	1618
Sequence Name:	LLVFA 120507	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	4/8/2008 12:40 AM	**Analytical Method:**	AM23G
System Operator:	jblack	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	5.073	0.141	0.511	BM	n.a.
3	Acetic Acid	6.670	3.749	7.729	M	23.3100
4	Propionic acid	7.410	1.044	3.164	M *	6.3523
5	FORMIC	8.260	0.144	0.420	M *	n.a.
6	Butyric Acid	8.837	0.093	0.274	MB	0.6771
7	Pyruvic acid	10.180	0.039	0.115	BM ^	0.4207
8	i-Pentanoic Acid	10.663	0.061	0.172	MB	0.5440
9	Pentanoic Acid	13.677	0.026	0.066	BMB	0.2530
10	BAK	17.360	1.422	4.107	BMB	n.a.



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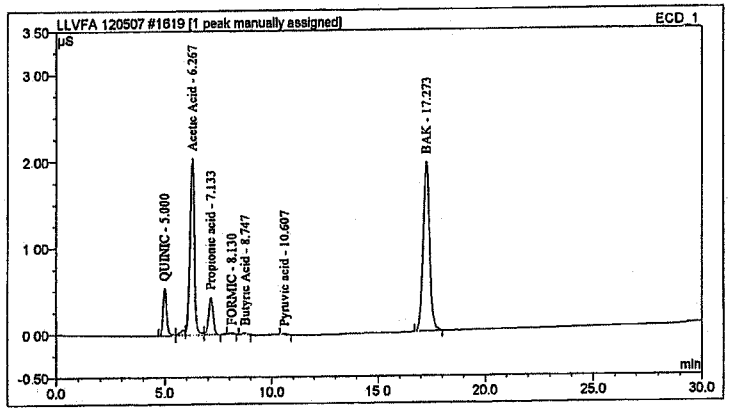
MICROSEEPS

Sample Analysis Report

Sample Name:	P0803346-02A 100X	**Sequence No:**	1619
Sequence Name:	LLVFA 120507	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	4/8/2008 1:21 AM	**Analytical Method:**	AM23G
System Operator:	jblack	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	5.000	0.103	0.545	BM	n.a.
3	Acetic Acid	6.267	0.476	2.042	M	1.9861
4	Propionic acid	7.133	0.106	0.433	MB	0.6360
5	FORMIC	8.130	0.004	0.019	BMB	n.a.
6	Butyric Acid	8.747	0.005	0.019	BMB	0.0678
7	Pyruvic acid	10.607	0.003	0.013	BMB	0.1169
8	BAK	17.273	0.685	1.957	BMB	n.a.



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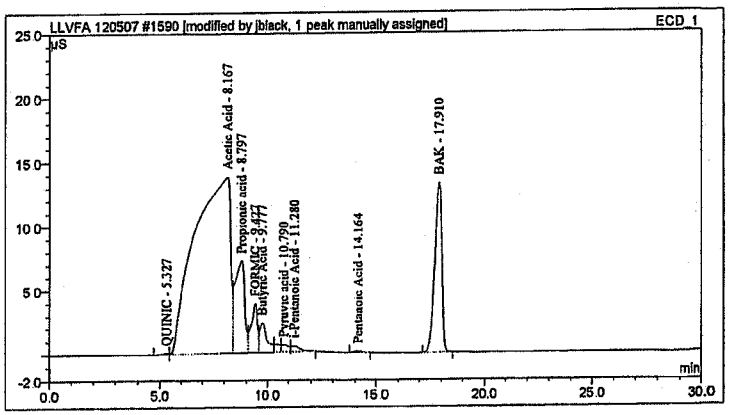
Sample Analysis Report

Sample Name:	P0803346-03A	**Sequence No:**	1590
Sequence Name:	LLVFA 120507	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	4/5/2008 2:24 PM	**Analytical Method:**	AM23G
System Operator:	jblack	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	5.327	0.024	0.068	BM	n.a.
2	Acetic Acid	8.167	26.249	13.764	M	n.a.
3	Propionic acid	8.797	3.586	7.217	M	27.8109
4	FORMIC	9.427	1.308	3.831	M	n.a.
5	Butyric Acid	9.777	0.937	2.302	M *	6.5010
7	Pyruvic acid	10.790	0.220	0.569	M *^	1.7483
8	i-Pentanoic Acid	11.280	0.224	0.460	MB*	1.8389
9	Pentanoic Acid	14.164	0.050	0.118	BMB	0.4475
10	BAK	17.910	5.034	13.241	BMB	n.a.



BOE-C6-0188451

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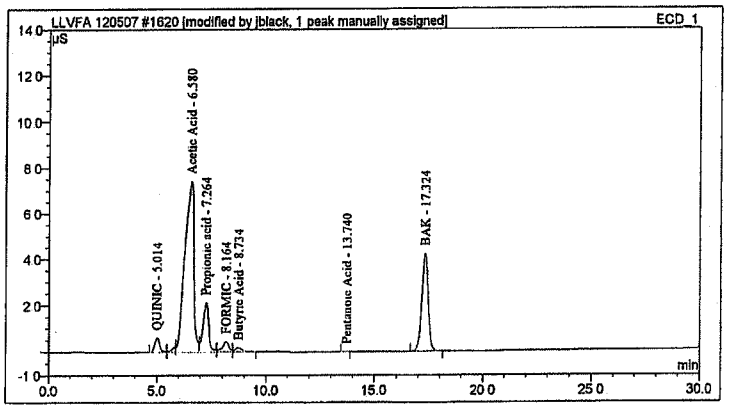
Sample Analysis Report

Sample Name:	P0803346-03A 10X	**Sequence No:**	1620
Sequence Name:	LLVFA 120507	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	4/8/2008 2:02 AM	**Analytical Method:**	AM23G
System Operator:	jblack	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	5.014	0.161	0.610	BM *	n.a.
3	Acetic Acid	6.580	3.473	7.426	M *	20.1797
4	Propionic acid	7.264	0.631	2.101	M *	3.7501
5	FORMIC	8.164	0.149	0.445	M *	n.a.
6	Butyric Acid	8.734	0.066	0.182	MB	0.4867
7	Pentanoic Acid	13.740	0.002	0.010	BMB	0.0518
8	BAK	17.324	1.461	4.201	BMB	n.a.



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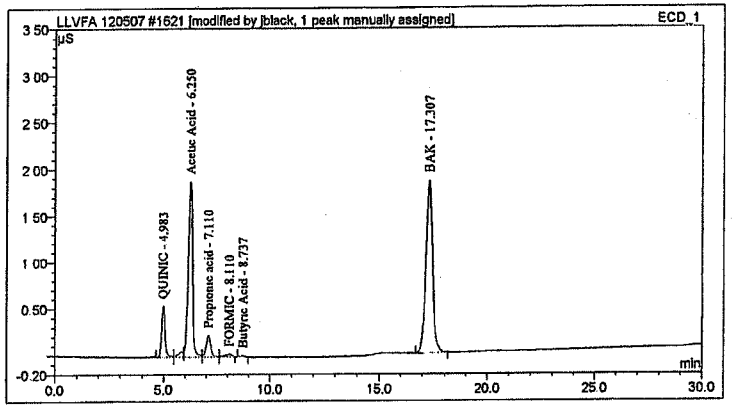
Sample Analysis Report

Sample Name:	P0803346-03A 100X	**Sequence No:**	1621
Sequence Name:	LLVFA 120507	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	4/8/2008 2:43 AM	**Analytical Method:**	AM23G
System Operator:	jblack	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	4.983	0.100	0.545	BM	n.a.
3	Acetic Acid	6.250	0.432	1.882	M *	1.7961
4	Propionic acid	7.110	0.056	0.229	MB*	0.3465
5	FORMIC	8.110	0.010	0.031	BMB	n.a.
6	Butyric Acid	8.737	0.003	0.012	BMB*	0.0523
7	BAK	17.307	0.654	1.856	BMB	n.a.



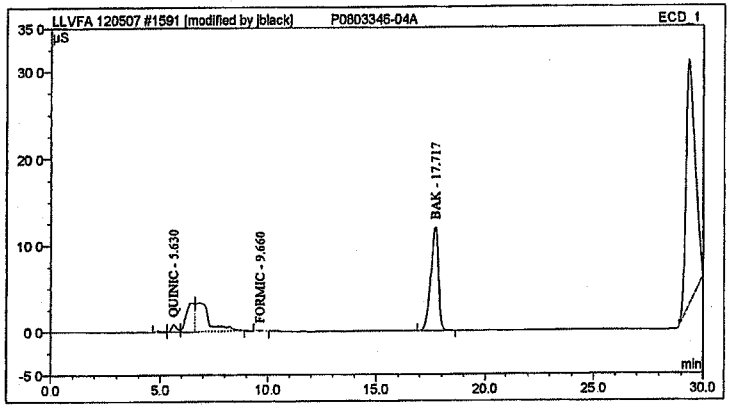
BOE-C6-0188452

MICROSEEPS

Sample Analysis Report

Sample Name:	P0803346-04A	**Sequence No:**	1591
Sequence Name:	LLVFA 120507	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	4/5/2008 3:06 PM	**Analytical Method:**	AM23G
System Operator:	jblack	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
2	QUINIC	5.630	0.225	0.820	M	n.a.
5	FORMIC	9.660	0.013	0.047	BMB	n.a.
6	BAK	17.717	4.882	11.957	BMB	n.a.

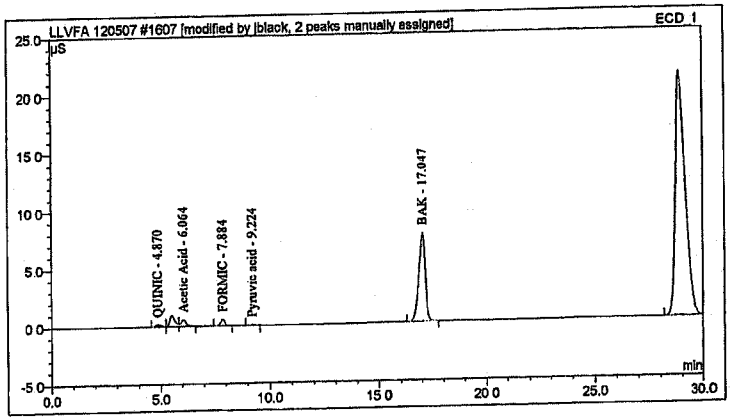


MICROSEEPS

Sample Analysis Report

Sample Name:	P0803346-04A RERUN	**Sequence No:**	1607
Sequence Name:	LLVFA 120507	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	4/7/2008 5:08 PM	**Analytical Method:**	AM23G
System Operator:	jblack	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	4.870	0.061	0.180	BM *^	n.a.
3	Acetic Acid	6.064	0.159	0.553	MB	0.6399
4	FORMIC	7.884	0.121	0.546	BMB	n.a.
5	Pyruvic acid	9.224	0.018	0.067	BMB	0.2456
6	BAK	17.047	2.775	7.636	BMB	n.a.



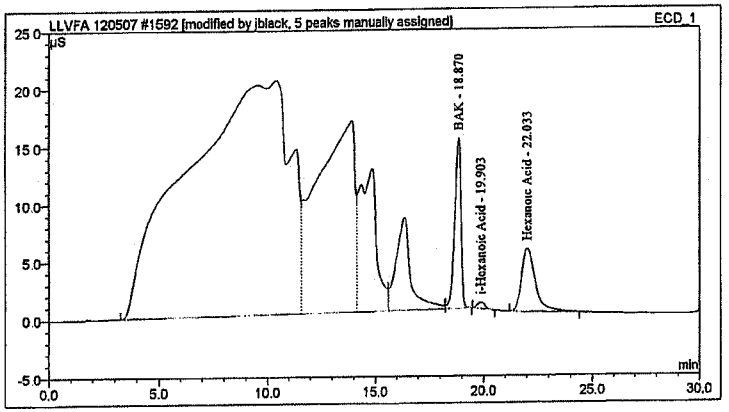
BOE-C6-0188453

MICROSEEPS

Sample Analysis Report

Sample Name:	P0803346-05A	**Sequence No:**	1592
Sequence Name:	LLVFA 120507	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	4/5/2008 3:47 PM	**Analytical Method:**	AM23G
System Operator:	jblack	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
5	BAK	18.870	5.072	14.781	MB^	n.a.
6	i-Hexanoic Acid	19.903	0.219	0.563	BMB*^	2.3103
7	Hexanoic Acid	22.033	3.936	5.421	BMB^	34.7487

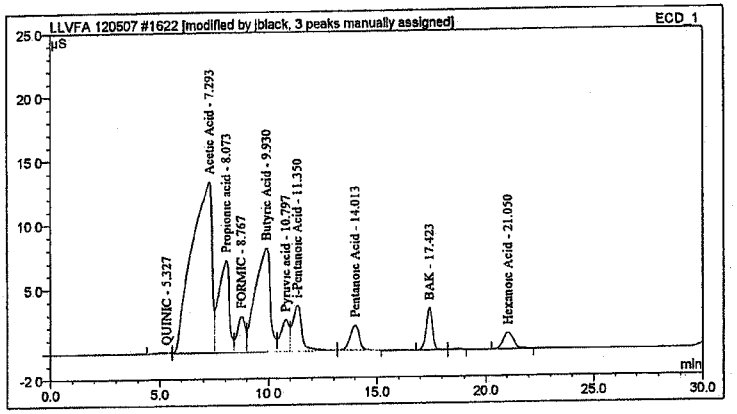


MICROSEEPS

Sample Analysis Report

Sample Name:	P0803346-05A 10X	**Sequence No:**	1622
Sequence Name:	LLVFA 120507	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	4/8/2008 3:24 AM	**Analytical Method:**	AM23G
System Operator:	jblack	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	5.327	0.074	0.091	BM	n.a.
2	Acetic Acid	7.293	14.203	13.271	M ^	n.a.
3	Propionic acid	8.073	4.049	7.120	M ^	34.2833
4	FORMIC	8.767	1.194	2.798	M *	n.a.
5	Butyric Acid	9.930	6.273	8.012	M *^	42.4610
6	Pyruvic acid	10.797	1.110	2.475	M	6.1700
7	i-Pentanoic Acid	11.350	1.739	3.524	Mb	12.6249
8	Pentanoic Acid	14.013	0.939	1.953	bMB	7.8073
9	BAK	17.423	1.093	3.268	BM	n.a.
11	Hexanoic Acid	21.050	0.692	1.268	BMB	7.1751



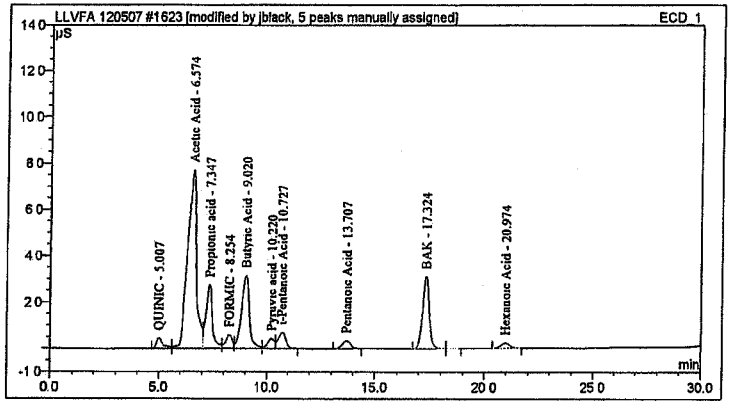
BOE-C6-0188454

MICROSEEPS

Sample Analysis Report

Sample Name:	P0803346-05A 100X	**Sequence No:**	1623
Sequence Name:	LLVFA 120507	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	4/8/2008 4:05 AM	**Analytical Method:**	AM23G
System Operator:	jblack	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	5.007	0.158	0.462	BM	n.a.
2	Acetic Acid	6.574	3.620	7.708	M ^	21.7380
3	Propionic acid	7.347	0.952	2.747	M ^	5.7563
4	FORMIC	8.254	0.204	0.590	M *^	n.a.
5	Butyric Acid	9.020	1.350	3.132	M *^	9.3401
6	Pyruvic acid	10.220	0.159	0.416	M ^	1.3344
7	I-Pentanoic Acid	10.727	0.281	0.685	MB	2.2854
8	Pentanoic Acid	13.707	0.150	0.334	BMB	1.2716
9	BAK	17.324	1.088	3.095	BM	n.a.
11	Hexanoic Acid	20.974	0.103	0.216	BMB	1.1606



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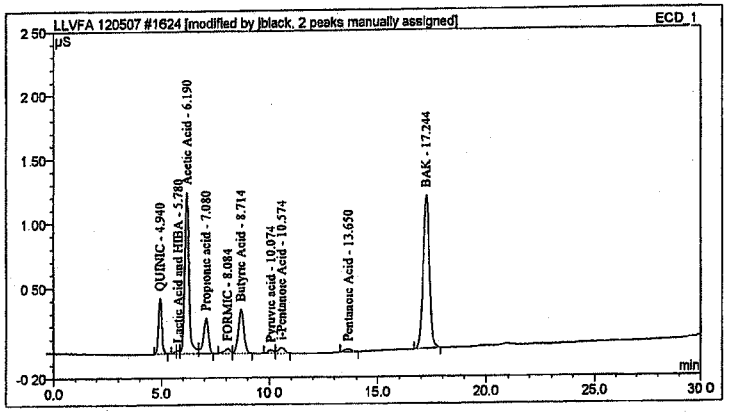
Sample Analysis Report

Sample Name:	P0803346-05A 1000X	**Sequence No:**	1624
Sequence Name:	LLVFA 120507	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	4/8/2008 4:46 AM	**Analytical Method:**	AM23G
System Operator:	jblack	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	4.940	0.076	0.432	BMB	n.a.
3	Lactic Acid and HIBA	5.780	0.004	0.028	M *	0.0695
4	Acetic Acid	6.190	0.292	1.250	M *	1.1964
5	Propionic acid	7.080	0.068	0.270	MB*	0.4163
6	FORMIC	8.084	0.011	0.037	BM *^	n.a.
7	Butyric Acid	8.714	0.103	0.341	MB*	0.7445
8	Pyruvic acid	10.074	0.007	0.025	BM ^	0.1535
9	I-Pentanoic Acid	10.574	0.015	0.044	MB	0.1714
10	Pentanoic Acid	13.650	0.009	0.022	BMB	0.1071
11	BAK	17.244	0.402	1.188	BMB	n.a.



BOE-C6-0188455

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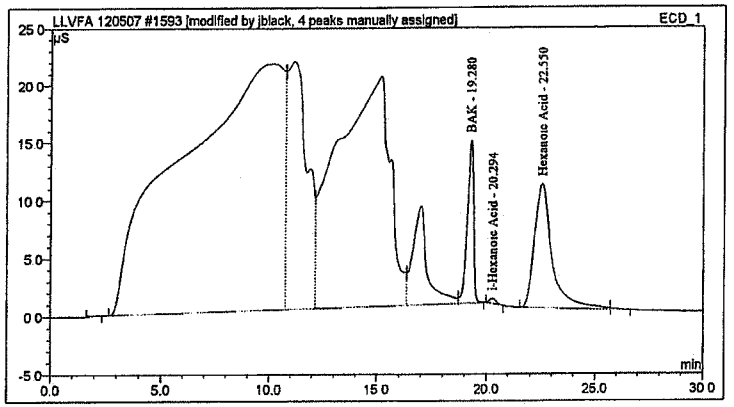
Sample Analysis Report

Sample Name:	P0803346-06A	**Sequence No:**	1593
Sequence Name:	LLVFA 120507	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	4/5/2008 4:28 PM	**Analytical Method:**	AM23G
System Operator:	jblack	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
6	BAK	19.280	4.613	14.030	MB	n.a.
7	i-Hexanoic Acid	20.294	0.144	0.411	BMB^	1.5427
8	Hexanoic Acid	22.550	10.079	10.709	BM ^	73.8619



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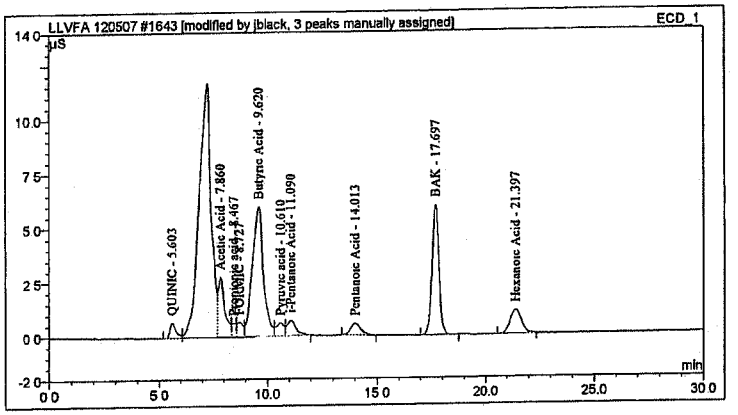
Sample Analysis Report

Sample Name:	P0803346-06A 100X	**Sequence No:**	1643
Sequence Name:	LLVFA 120507	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	4/8/2008 7:13 PM	**Analytical Method:**	AM23G
System Operator:	jblack	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	5.603	0.234	0.709	BM	n.a.
3	Acetic Acid	7.860	1.014	2.768	M *^	4.4179
4	Propionic acid	8.467	0.131	0.628	M ^	0.7788
5	FORMIC	8.727	0.220	0.679	M	n.a.
6	Butyric Acid	9.620	3.524	5.992	M	24.1229
7	Pyruvic acid	10.610	0.242	0.596	M ^	1.8937
8	i-Pentanoic Acid	11.090	0.340	0.698	MB	2.7450
9	Pentanoic Acid	14.013	0.288	0.537	BMB	2.4182
10	BAK	17.697	2.190	6.007	BMB*	n.a.
11	Hexanoic Acid	21.397	0.651	1.098	BMB	6.7680



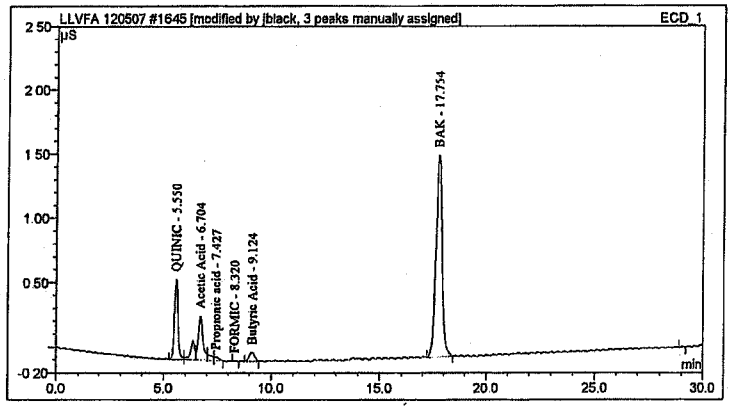
BOE-C6-0188456

MICROSEEPS

Sample Analysis Report

Sample Name:	P0803346-06A 10,000X	**Sequence No:**	1645
Sequence Name:	LLVFA 120507	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	4/8/2008 8:35 PM	**Analytical Method:**	AM23G
System Operator:	jblack	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	5.550	0.120	0.624	BM *	n.a.
3	Acetic Acid	6.704	0.087	0.340	M *^	0.3381
5	Propionic acid	7.427	0.006	0.025	MB*^	0.0629
6	FORMIC	8.320	0.001	0.009	BMB^	n.a.
7	Butyric Acid	9.124	0.022	0.072	BMB	0.1857
8	BAK	17.754	0.533	1.567	BMB	n.a.

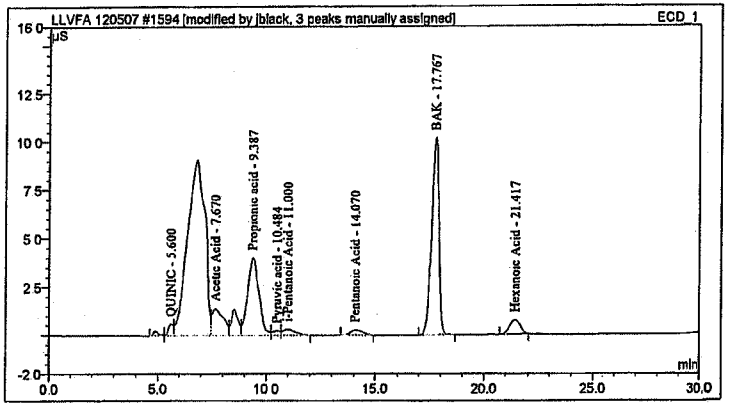


MICROSEEPS

Sample Analysis Report

Sample Name:	P0803346-07A	**Sequence No:**	1594
Sequence Name:	LLVFA 120507	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	4/5/2008 5:09 PM	**Analytical Method:**	AM23G
System Operator:	jblack	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
2	QUINIC	5.600	0.151	0.596	M	n.a.
4	Acetic Acid	7.670	0.842	1.386	M *	3.6208
6	Propionic acid	9.387	2.426	4.009	M	16.3944
7	Pyruvic acid	10.484	0.097	0.232	M *^	0.8778
8	I-Pentanoic Acid	11.000	0.208	0.316	MB*	1.7171
9	Pentanoic Acid	14.070	0.170	0.262	BMB	1.4395
10	BAK	17.767	3.927	10.177	BMB^	n.a.
11	Hexanoic Acid	21.417	0.402	0.741	BMB^	4.2713



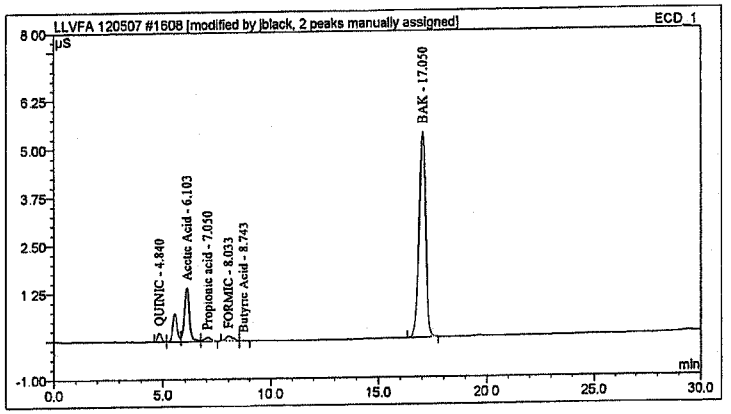
BOE-C6-0188457

MICROSEEPS

Sample Analysis Report

Sample Name:	P0803346-07A RERUN	**Sequence No:**	1608
Sequence Name:	LLVFA 120507	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	4/7/2008 5:49 PM	**Analytical Method:**	AM23G
System Operator:	jblack	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	4.840	0.045	0.221	BM ^	n.a.
3	Acetic Acid	6.103	0.370	1.392	M	1.5317
4	Propionic acid	7.050	0.037	0.103	MB	0.2368
5	FORMIC	8.033	0.051	0.130	BM *	n.a.
6	Butyric Acid	8.743	0.004	0.013	MB*	0.0563
7	BAK	17.050	1.874	5.353	BMB	n.a.

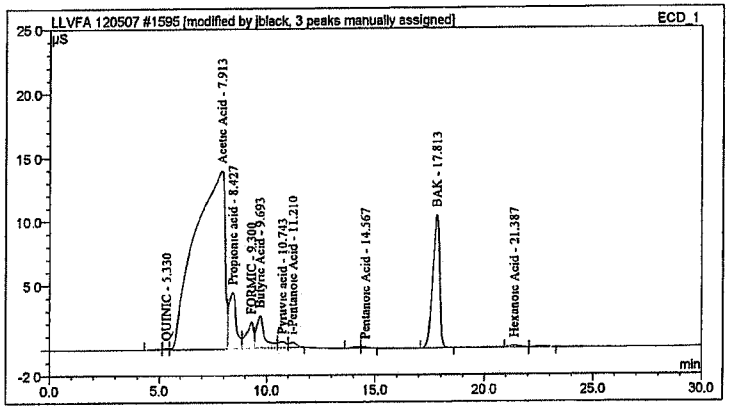


MICROSEEPS

Sample Analysis Report

Sample Name:	P0803346-08A	**Sequence No:**	1595
Sequence Name:	LLVFA 120507	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	4/5/2008 5:50 PM	**Analytical Method:**	AM23G
System Operator:	jblack	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
2	QUINIC	5.330	0.031	0.105	M	n.a.
3	Acetic Acid	7.913	22.184	13.851	M *	n.a.
4	Propionic acid	8.427	1.719	4.339	M *^	10.9543
5	FORMIC	9.300	0.764	2.041	M ^	n.a.
6	Butyric Acid	9.693	1.068	2.485	M *	7.4057
7	Pyruvic acid	10.743	0.194	0.459	M *	1.5739
8	i-Pentanoic Acid	11.210	0.156	0.394	MB*	1.3011
10	Pentanoic Acid	14.567	0.042	0.095	MB^	0.3839
11	BAK	17.813	3.751	10.350	BMB	n.a.
12	Hexanoic Acid	21.387	0.076	0.160	BMB	0.8669



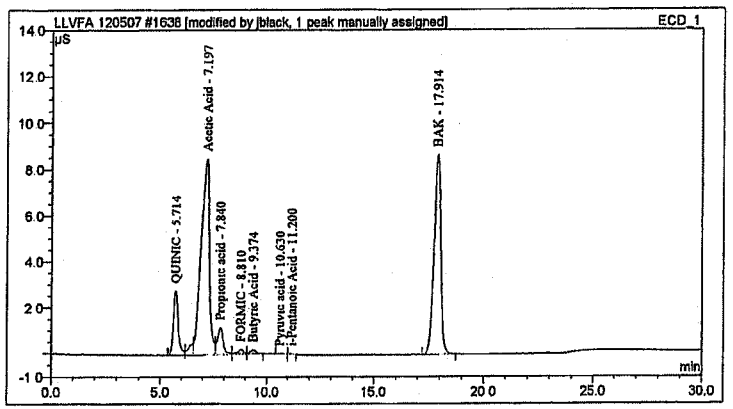
BOE-C6-0188458

MICROSEEPS

Sample Analysis Report

Sample Name:	P0803346-08A 10X	**Sequence No:**	1638
Sequence Name:	LLVFA 120507	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	4/8/2008 3:47 PM	**Analytical Method:**	AM23G
System Operator:	jblack	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	5.714	0.794	2.803	BM ^	n.a.
3	Acetic Acid	7.197	3.854	8.498	M *	24.7752
4	Propionic acid	7.840	0.355	1.158	M *	2.0887
5	FORMIC	8.810	0.066	0.198	M	n.a.
6	Butyric Acid	9.374	0.058	0.176	MB	0.4349
7	Pyruvic acid	10.630	0.007	0.023	BMB	0.1505
8	I-Pentanoic Acid	11.200	0.004	0.023	BMB*	0.0812
9	BAK	17.914	3.096	8.682	BMB	n.a.

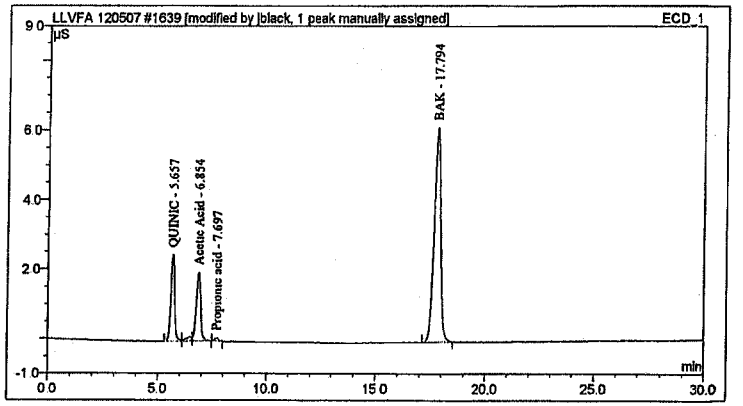


MICROSEEPS

Sample Analysis Report

Sample Name:	P0803346-08A 100X	**Sequence No:**	1639
Sequence Name:	LLVFA 120507	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	4/8/2008 4:28 PM	**Analytical Method:**	AM23G
System Operator:	jblack	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	5.657	0.492	2.488	BM	n.a.
3	Acetic Acid	6.854	0.460	1.965	MB	1.9177
4	Propionic acid	7.697	0.017	0.085	BMB	0.1252
5	BAK	17.794	2.156	6.157	BMB	n.a.



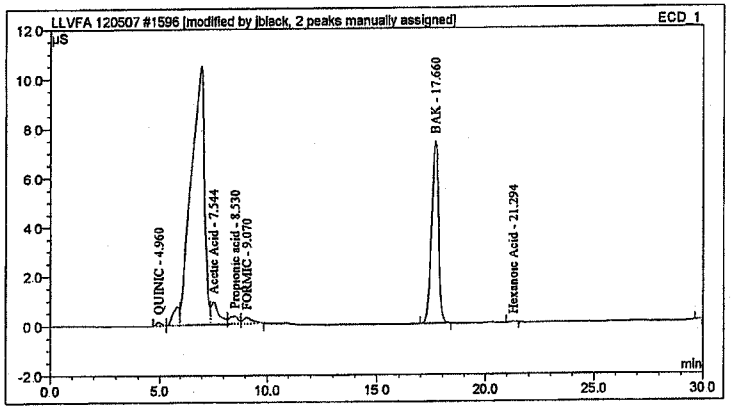
BOE-C6-0188459

MICROSEEPS

Sample Analysis Report

Sample Name:	P0803346-09A	**Sequence No:**	1596
Sequence Name:	LLVFA 120507	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1 0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	4/5/2008 6:31 PM	**Analytical Method:**	AM23G
System Operator:	jblack	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	4.960	0.044	0.143	BM ^	n.a.
4	Acetic Acid	7.544	0.392	0.915	M	1.6248
5	Propionic acid	8.530	0.151	0.314	M *	0.8912
6	FORMIC	9.070	0.133	0.249	MB	n.a.
7	BAK	17.660	2.716	7.383	BMB	n.a.
8	Hexanoic Acid	21.294	0.006	0.023	BMB	0.1231



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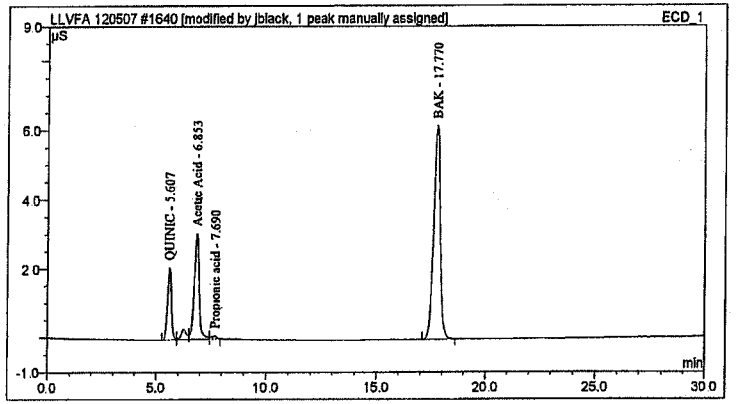
Sample Analysis Report

Sample Name:	P0803346-09A 10X	**Sequence No:**	1640
Sequence Name:	LLVFA 120507	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	4/8/2008 5:09 PM	**Analytical Method:**	AM23G
System Operator:	jblack	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	5.607	0.417	2.112	BM	n.a.
3	Acetic Acid	6.853	0.823	3.066	M	3.5340
4	Propionic acid	7.690	0.024	0.086	MB	0.1629
5	BAK	17.770	2.185	6.158	BMB	n.a.



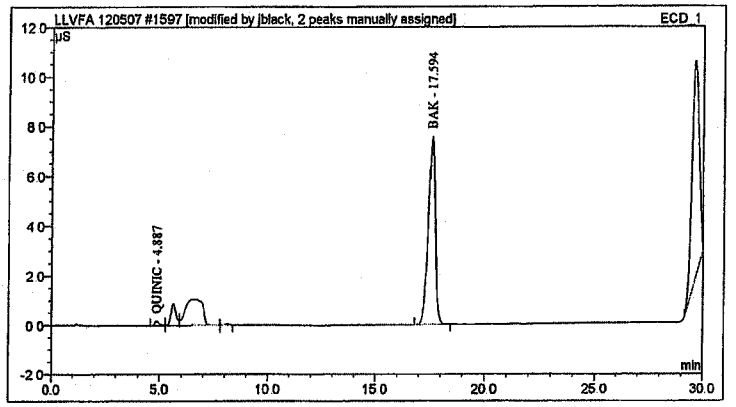
BOE-C6-0188460

MICROSEEPS

Sample Analysis Report

Sample Name:	P0803346-10A	**Sequence No:**	1597
Sequence Name:	LLVFA 120507	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	4/5/2008 7:12 PM	**Analytical Method:**	AM23G
System Operator:	jblack	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	4.887	0.045	0.179	BM *^	n.a.
5	BAK	17.594	2.864	7.575	BMB	n.a.

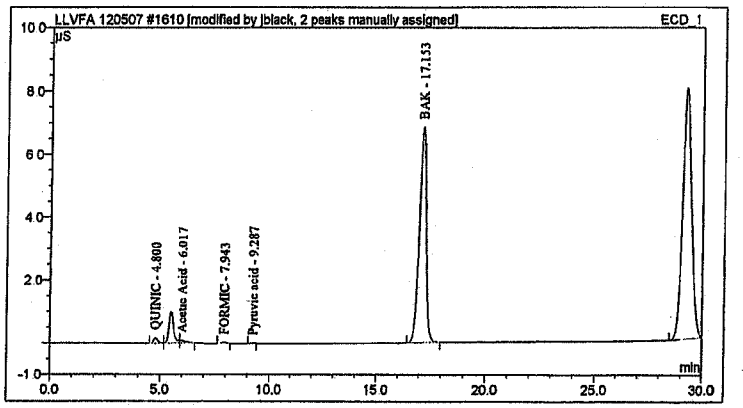


MICROSEEPS

Sample Analysis Report

Sample Name:	P0803346-10A RERUN	**Sequence No:**	1610
Sequence Name:	LLVFA 120507	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	4/7/2008 7:11 PM	**Analytical Method:**	AM23G
System Operator:	jblack	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	4.800	0.040	0.175	BM *^	n.a.
3	Acetic Acid	6.017	0.029	0.085	MB	0.1016
4	FORMIC	7.943	0.010	0.042	BMB	n.a.
5	Pyruvic acid	9.287	0.002	0.010	BMB	0.1081
6	BAK	17.153	2.509	6.851	BMB	n.a.



BOE-C6-0188461

North Wind

Boeing Site IRC1931 Quantitative PCR Analytical Summary

April 8, 2008

Overview:

The objective of this project was to quantify the number of *Dehalococcoides sp.* (DHC) 16S rRNA gene copies and reductase functional genes (*tceA*, *vcrA*, and *bvcA* copies) contained in groundwater collected from the Boeing Site, Irvine, CA, using quantitative polymerase chain reaction (QPCR). The client is Camp, Dresser and McKee. Table 1 describes the sample matrix and the condition of the samples upon arrival to the analytical laboratory.

Table 1. Description of the Boeing Site IRC1931 samples and volume filtered for DNA extraction.

Well Location	Matrix–Date Sampled	Condition Received/ Observations	Volume Filtered (L)
IRC1931-02	Groundwater–03/25/2008	4°C, bottles intact	1.0
IRC1931-03	Groundwater–03/25/2008	4°C, bottles intact	1.0
IRC1931-04	Groundwater–03/25/2008	4°C, bottles intact	1.0
IRC1931-09	Groundwater–03/25/2008	4°C, bottles intact	0.6
IRC1931-10	Groundwater–03/25/2008	4°C, bottles intact	0.7

The samples arrived in good condition at 4°C. All samples were received within 24 hours of sample collection. Upon arrival, the samples in 1-L bottles were filtered and frozen for storage at -80°C until the DNA extraction was performed. Following DNA extraction, the samples were first subjected to polymerase chain reaction (PCR) using universal bacterial probes in order to verify amplifiable DNA was present in the sample. The results of these studies are described here.

North Wind

Methods:

DNA Extraction: For groundwater shipped to the laboratory, between 0.6 and 1.0 L of groundwater was filtered using sterile 0.2-µm acetate filters. The filters were frozen at -80°C and then shattered. Next, each sample tube was amended with 2 mL of DNA-free water, vortexed vigorously for 5 minutes, and the liquid volume was partitioned into DNA extraction tubes. DNA extractions were performed using the Bio101 DNA Extraction Kit according to the manufacturer's instructions. DNA product was cleaned with ethanol precipitation. Community DNA was eluted in 100 µL of 0.1x Tris HCL and stored at -20°C.

Amplification of Bacteria: The PCR was used to amplify nearly full-length 16S rDNA genes from *Bacteria*. Each 25-µL PCR reaction included 0.4 mg mL-1 molecular-grade BSA (Sigma Chemicals), 5X PCR buffer (Promega), 0.5 µM each forward and reverse primer (Invitrogen), 1 U Taq DNA polymerase (Promega), 0.2 mM each dNTP (Invitrogen), 1 µL template DNA, and molecular-grade water (Promega). Amplification was performed on a BIO-RAD DNA Engine Dyad and Disciple Peltier Thermal Cycler using the following regime: 94°C (5 min) followed by 40 cycles of 94°C (1 min), 53.5°C (1 min), and 72°C (1 min). The reaction was finished with an additional 7 minutes at 72°C. PCR products were examined in a 1.0% agarose gel stained with ethidium bromide to confirm specificity of the amplification reactions.

Detection of Dehalococcoides: The QPCR methods for assessing the 16S rRNA gene, and the reductase genes *tceA, bvcA,* and *vcrA*, are very sensitive in detecting specific DNA fragments. The detection limit for the methods used is approximately 2 gene copies per µL of the DNA extraction. The reporting limit is 50 gene copies per µL of the DNA extraction.

A mixed laboratory culture containing *Dehalococcoides* was used to obtain the quantitative standards used in these analyses. Plasmid DNA containing DNA inserts of targets 16S rRNA gene, *tceA, bvcA*, and *vcrA* from *Dehalococcoides* were purified and quantified fluorometrically. Based on the known size of the plasmid and insert, DNA concentrations were converted to insert copy numbers. A dilution series spanning seven orders of magnitude was generated using known concentrations of each plasmid. Amplification and detection of the DNA was performed using a BIO-RAD Chromo4 Real Time Detector System. The acceptance criterion for the standard curve is a linear R^2 value of greater than 0.995.

TaqMan Protocol. The 16S rRNA gene, and reductase genes *tceA*, *bvcA*, and *vcrA*, QPCR reactions were performed using TaqMan chemistry. The Taqman probes for the 16S rRNA gene and for the *tceA* gene were synthesized using the FAM label on the 5-foot end and the the BHQ quencher (Biosearch Technologies). For the *bvcA* gene probe, a Cy5 label is used on the 5-foot end and for the *vcrA* geneprobe, a HEX label is used on the 5-foot end, both are coupled to the BHQ quencher. Reaction volumes of 25 µL contained forward and reverse primers at a concentration of 700 nM, a probe at a concentrations of 200 nM, 1 x TaqMan Universal PCR Master Mix(Roche) and 5 µL of sample DNA. The BIO-RAD Chromo 4 Real Time Detector System was used for all reactions. The settings for cycle number and reaction conditions used for all runs were 95°C for 10 minutes, and 45 cycles of 95°C for 15 seconds and 58°C for 1 minute. Standards and unknowns were run in triplicate to ensure reproducibility. Cycle thresholds (C_t) were set to minimize the standard deviation of standard curve triplicate C_t values, and also to obtain a standard curve slope as close to negative 3.5 as possible.

BOE-C6-0188462

Results:

The groundwater samples arrived at the lab in good condition at 4°C with ice still in the cooler. The groundwater samples were filtered in the lab, and the filters were immediately placed in a -80°C freezer and stored until the DNA extraction was performed. Table 2 summarizes the QPCR analysis of the Boeing Site IRC1931 project samples. The DNA extraction negative control and all PCR negative controls did not amplify any product. In addition, all calibration control checks were within acceptable values.

Table 2. Results of molecular analyses for the Boeing Site IRC1931 samples.

Well Location	DNA (ng/L groundwater)	Universal PCR/Nested QPCR#	*Dehalococcoides* 16S rDNA (copy/L groundwater)*			*Dehalococcoides* tceA (copy/L groundwater)*			*Dehalococcoides* bvcA (copy/L groundwater)*			*Dehalococcoides* vcrA (copy/L groundwater)*	
IRC1931-02	1223	+/NA	4.30E+08	±	2.77E+07	3.46E+07	±	3.58E+06	8.45E+07	±	1.21E+07	ND	
IRC1931-03	2095	+/NA	1.13E+09	±	1.58E+08	1.18E+09	±	1.47E+08	4.70E+06	±	1.36E+05	ND	
IRC1931-04	1147	+/NA	2.95E+08	±	1.94E+07	3.37E+06	±	6.45E+05	4.23E+07	±	1.42E+06	ND	
IRC1931-09	8925	+/NA	1.74E+09	±	2.94E+08	7.25E+03	±	6.24E+03*	1.83E+08	±	2.93E+07	ND	
IRC1931-10	2721	+/NA	1.26E+08	±	1.86E+07	2.83E+04	±	1.24E+04*	1.69E+07	±	1.69E+06	ND	

*: indicates that the value presented is below the reporting limit.
#: a '+' sign indicates that amplification of *Bacteria* was successful, and a '-' sign indicates that amplification was not successful, 'n/a' (not applicable) indicates the nested QPCR assay was not performed as *Dehalococcoides* was detected in the QPCR assay
ND: indicates sample was non-detect for the target.

The DNA concentration of the DNA extraction (in ng/L of groundwater) is reported as an indicator of relative biomass levels for the samples so that relative comparisons can be made. All DNA extractions yielded sufficient DNA to amplify *Bacteria* in a universal PCR reaction, and these products were visualized by gel electrophoresis, confirming that amplifiable DNA was obtained from each sample.

The *Dehalococcoides* (DHC) 16s rRNA gene and reductase gene *bvcA* were detected in all the samples above the reporting limit (50 gene copies/µL of DNA extraction). Reductase gene *tceA* was found above the reporting limit in samples IRC1931-02, IRC1931-03, and IRC1931-04. Reductase gene *tceA* was also detected below the reporting limit in sample IRC1931-10 and IRC1931-09. Reductase gene *vcrA* was not detected above the method detection limit (2 gene copies/µL of DNA extraction) in any sample.

SUBCONTRACT ORDER

TestAmerica Irvine

IRC1931

SENDING LABORATORY:
TestAmerica Irvine
17461 Derian Avenue, Suite 100
Irvine, CA 92614
Phone: (949) 261-1022
Fax: (949) 260-3297
Project Manager: Trupti Mistry

RECEIVING LABORATORY:
Air Technology Lab - SUB
18501 E. Gale Avenue, Suite #130
City of Industry, CA 91748
Phone :(626) 964-4032
Fax: (626) 964-5832
Project Location: California
Receipt Temperature: °C Ice: Y / N

Analysis	Units	Due	Expires	Comments
Sample ID: IRC1931-02	**Water**		**Sampled: 03/25/08 07:50**	
Diss. Gasses-OUT	mg/l	04/08/08	04/08/08 07:50	sub=ATL;RL=1-C2H4,C2H6,CH4,Elmnt EDD,Boeing,Jflags
Containers Supplied: 40 mL VOA w/HCL + rubber septa (G)	40 mL VOA w/HCL + rubber septa (H)		40 mL VOA w/HCL + rubber septa (I)	
Sample ID: IRC1931-03	**Water**		**Sampled: 03/25/08 08:40**	
Diss. Gasses-OUT	mg/l	04/08/08	04/08/08 08:40	sub=ATL;RL=1-C2H4,C2H6,CH4,Elmnt EDD,Boeing,Jflags
Containers Supplied: 40 mL VOA w/HCL + rubber septa (G)	40 mL VOA w/HCL + rubber septa (H)		40 mL VOA w/HCL + rubber septa (I)	
Sample ID: IRC1931-04	**Water**		**Sampled: 03/25/08 09:23**	
Diss. Gasses-OUT	mg/l	04/08/08	04/08/08 09:23	sub=ATL;RL=1-C2H4,C2H6,CH4,Elmnt EDD,Boeing,Jflags
Containers Supplied: 40 mL VOA w/HCL + rubber septa (G)	40 mL VOA w/HCL + rubber septa (H)		40 mL VOA w/HCL + rubber septa (I)	
Sample ID: IRC1931-05	**Water**		**Sampled: 03/25/08 09:24**	
Diss. Gasses-OUT	mg/l	04/08/08	04/08/08 09:24	sub=ATL;RL=1-C2H4,C2H6,CH4,Elmnt EDD,Boeing,Jflags
Containers Supplied: 40 mL VOA w/HCL + rubber septa (G)	40 mL VOA w/HCL + rubber septa (H)		40 mL VOA w/HCL + rubber septa (I)	
Sample ID: IRC1931-06	**Water**		**Sampled: 03/25/08 10:24**	
Diss. Gasses-OUT	mg/l	04/08/08	04/08/08 10:24	sub=ATL;RL=1-C2H4,C2H6,CH4,Elmnt EDD,Boeing,Jflags
Containers Supplied: 40 mL VOA w/HCL + rubber septa (G)	40 mL VOA w/HCL + rubber septa (H)		40 mL VOA w/HCL + rubber septa (I)	

Released By	Date/Time	Received By	Date/Time
Released By	Date/Time	Received By	Date/Time

SUBCONTRACT ORDER

TestAmerica Irvine

IRC1931

Analysis	Units	Due	Expires	Comments
Sample ID: IRC1931-07	**Water**		**Sampled: 03/25/08 11:20**	
Diss. Gasses-OUT	mg/l	04/08/08	04/08/08 11:20	sub=ATL;RL=1-C2H4,C2H6,CH4,Elmnt EDD,Boeing,Jflags
Containers Supplied: 40 mL VOA w/HCL + rubber septa (G)	40 mL VOA w/HCL + rubber septa (H)	40 mL VOA w/HCL + rubber septa (I)		
Sample ID: IRC1931-08	**Water**		**Sampled: 03/25/08 11:21**	
Diss. Gasses-OUT	mg/l	04/08/08	04/08/08 11:21	sub=ATL;RL=1-C2H4,C2H6,CH4,Elmnt EDD,Boeing,Jflags
Containers Supplied: 40 mL VOA w/HCL + rubber septa (G)	40 mL VOA w/HCL + rubber septa (H)	40 mL VOA w/HCL + rubber septa (I)		
Sample ID: IRC1931-09	**Water**		**Sampled: 03/25/08 11:56**	
Diss. Gasses-OUT	mg/l	04/08/08	04/08/08 11:56	sub=ATL;RL=1-C2H4,C2H6,CH4,Elmnt EDD,Boeing,Jflags
Containers Supplied: 40 mL VOA w/HCL + rubber septa (G)	40 mL VOA w/HCL + rubber septa (H)			
Sample ID: IRC1931-10	**Water**		**Sampled: 03/25/08 12:30**	
Diss. Gasses-OUT	mg/l	04/08/08	04/08/08 12:30	sub=ATL;RL=1-C2H4,C2H6,CH4,Elmnt EDD,Boeing,Jflags
Containers Supplied: 40 mL VOA w/HCL + rubber septa (G)	40 mL VOA w/HCL + rubber septa (H)	40 mL VOA w/HCL + rubber septa (I)		
Sample ID: IRC1931-11	**Water**		**Sampled: 03/25/08 13:06**	
Diss. Gasses-OUT	mg/l	04/08/08	04/08/08 13:06	sub=ATL;RL=1-C2H4,C2H6,CH4,Elmnt EDD,Boeing,Jflags
Containers Supplied: 40 mL VOA w/HCL + rubber septa (G)	40 mL VOA w/HCL + rubber septa (H)	40 mL VOA w/HCL + rubber septa (I)		

SUBCONTRACT ORDER

TestAmerica Irvine

IRC1931

SENDING LABORATORY:

TestAmerica Irvine
17461 Derian Avenue, Suite 100
Irvine CA 92614
Phone: (949) 261-1022
Fax: (949) 260-3297
Project Manager: Trupti Mistry

RECEIVING LABORATORY:

Microseeps-SUB
220 William Pitt Way
Pittsburgh, PA 15238
Phone :412/826-5245
Fax: 412/826-3433
Project Location: California
Receipt Temperature: _____ °C Ice: Y / N

Analysis	Units	Due	Expires	Comments
Sample ID: IRC1931-02	**Water**		**Sampled: 03/25/08 07:50**	
VFA-Microseeps OUT	mg/l	04/08/08	04/01/08 07:50	Microseeps; IC; J&Bflags;TestAmerica excel EDD
Containers Supplied: 40 mL Amber Voa Vial (K)	40 mL Amber Voa Vial (L)			
Sample ID: IRC1931-03	**Water**		**Sampled: 03/25/08 08:40**	
VFA-Microseeps OUT	mg/l	04/08/08	04/01/08 08:40	Microseeps; IC; J&Bflags;TestAmerica excel EDD
Containers Supplied: 40 mL Amber Voa Vial (K)	40 mL Amber Voa Vial (L)			
Sample ID: IRC1931-04	**Water**		**Sampled: 03/25/08 09:23**	
VFA-Microseeps OUT	mg/l	04/08/08	04/01/08 09:23	Microseeps; IC; J&Bflags;TestAmerica excel EDD
Containers Supplied: 40 mL Amber Voa Vial (K)	40 mL Amber Voa Vial (L)			
Sample ID: IRC1931-05	**Water**		**Sampled: 03/25/08 09:24**	
VFA-Microseeps OUT	mg/l	04/08/08	04/01/08 09:24	Microseeps; IC; J&Bflags;TestAmerica excel EDD
Containers Supplied: 40 mL Amber Voa Vial (K)	40 mL Amber Voa Vial (L)			
Sample ID: IRC1931-06	**Water**		**Sampled: 03/25/08 10:24**	
VFA-Microseeps OUT	mg/l	04/08/08	04/01/08 10:24	Microseeps; IC; J&Bflags;TestAmerica excel EDD
Containers Supplied: 40 mL Amber Voa Vial (K)	40 mL Amber Voa Vial (L)			

Released By	Date/Time	Received By	Date/Time
Released By	Date/Time	Received By	Date/Time

BOE-C6-0188464

SUBCONTRACT ORDER

TestAmerica Irvine

IRC1931

Analysis	Units	Due	Expires	Comments
Sample ID: IRC1931-07	**Water**		**Sampled: 03/25/08 11:20**	
VFA-Microseeps OUT	mg/l	04/08/08	04/01/08 11:20	Microseeps; IC; J&Bflags;TestAmerica excel EDD
Containers Supplied: 40 mL Amber Voa Vial (K)	40 mL Amber Voa Vial (L)			
Sample ID: IRC1931-08	**Water**		**Sampled: 03/25/08 11:21**	
VFA-Microseeps OUT	mg/l	04/08/08	04/01/08 11:21	Microseeps; IC; J&Bflags;TestAmerica excel EDD
Containers Supplied: 40 mL Amber Voa Vial (K)	40 mL Amber Voa Vial (L)			
Sample ID: IRC1931-09	**Water**		**Sampled: 03/25/08 11:56**	
VFA-Microseeps OUT	mg/l	04/08/08	04/01/08 11:56	Microseeps; IC; J&Bflags;TestAmerica excel EDD
Containers Supplied: 40 mL Amber Voa Vial (J)	40 mL Amber Voa Vial (K)			
Sample ID: IRC1931-10	**Water**		**Sampled: 03/25/08 12:30**	
VFA-Microseeps OUT	mg/l	04/08/08	04/01/08 12:30	Microseeps; IC; J&Bflags;TestAmerica excel EDD
Containers Supplied: 40 mL Amber Voa Vial (K)	40 mL Amber Voa Vial (L)			
Sample ID: IRC1931-11	**Water**		**Sampled: 03/25/08 13:06**	
VFA-Microseeps OUT	mg/l	04/08/08	04/01/08 13:06	Microseeps; IC; J&Bflags;TestAmerica excel EDD
Containers Supplied: 40 mL Amber Voa Vial (K)	40 mL Amber Voa Vial (L)			

SUBCONTRACT ORDER

TestAmerica Irvine

IRC1931

SENDING LABORATORY:

TestAmerica Irvine
17461 Derian Avenue, Suite 100
Irvine, CA 92614
Phone: (949) 261-1022
Fax: (949) 260-3297
Project Manager: Trupti Mistry

RECEIVING LABORATORY:

Idaho State University - Dept. of Bio Sci - MRCF
650 Memorial Drive
Pocatello, ID 83209
Phone :(208) 557-7846
Fax: zzz
Project Location: California
Receipt Temperature: ____ °C Ice: Y / N

Analysis	Units	Due	Expires	Comments
Sample ID: IRC1931-02	**Water**		**Sampled: 03/25/08 07:50**	
DHC Assay - OUT	cells/ml	04/08/08	04/01/08 07:50	Dehalo by qPCR, sub to Idaho St ; tceA, bvcA, vcrA
Containers Supplied: 1 Liter Poly (N)	1 Liter Poly (O)			
Sample ID: IRC1931-03	**Water**		**Sampled: 03/25/08 08:40**	
DHC Assay - OUT	cells/ml	04/08/08	04/01/08 08:40	Dehalo by qPCR, sub to Idaho St ; tceA, bvcA, vcrA
Containers Supplied: 1 Liter Poly (N)	1 Liter Poly (O)			
Sample ID: IRC1931-04	**Water**		**Sampled: 03/25/08 09:23**	
DHC Assay - OUT	cells/ml	04/08/08	04/01/08 09:23	Dehalo by qPCR, sub to Idaho St ; tceA, bvcA, vcrA
Containers Supplied: 1 Liter Poly (N)	1 Liter Poly (O)			
Sample ID: IRC1931-09	**Water**		**Sampled: 03/25/08 11:56**	
DHC Assay - OUT	cells/ml	04/08/08	04/01/08 11:56	Dehalo by qPCR, sub to Idaho St ; tceA, bvcA, vcrA
Containers Supplied: 1 Liter Poly (M)	1 Liter Poly (N)			
Sample ID: IRC1931-10	**Water**		**Sampled: 03/25/08 12:30**	
DHC Assay - OUT	cells/ml	04/08/08	04/01/08 12:30	Dehalo by qPCR, sub to Idaho St ; tceA, bvcA, vcrA
Containers Supplied: 1 Liter Poly (N)	1 Liter Poly (O)			

Released By	Date/Time	Received By	Date/Time
Released By	Date/Time	Received By	Date/Time

BOE-C6-0188465

APPENDIX C

BOE-C6-0188466

Appendix C

IDW Manifests

AVOCET
ENVIRONMENTAL, INC.

TRANSPORTATION WORK ORDER

BILL NO. E- 0096698

AMERICAN INTEGRATED SERVICES, INC.
1502 E. OPP STREET
WILMINGTON, CA 90744
PH: 310-522-1168 FAX: 310-522-0474

DATE 3/18/08

JOB # 28003-3
BROKER #
TRUCK # 202
TRAILER # 221T
CA #

UNDERLYING CARRIER (IF ANY)
ADDRESS Boing Realty Corp PH

CUSTOMER C.D.M
ADDRESS OR BOX
JOB SITE
NAME AND ADDRESS OF DEBITOR IF OTHER THAN SHIPPER/CONSIGNOR
1951 Knox St Torrance
Ais Wop Wilmington

RECIEVER CONSIGNEE
ADDRESS OR BOX
CITY/STATE/ZIP
POINT OF ORIGIN
POINT OF DESTINATION

EQUIPMENT TYPE
- ☐ 10 WHEELER
- ☒ 120 BBL VAC TRUCK
- ☐ SMALL VAC
- ☐ ROLL-OFF
- ☐ LOWBOY
- ☐ END DUMP
- ☐ 40 YARD BOX
- ☐ 16 YARD BIN
- ☐ STAKE BED
- ☐ WATER TRUCK
- ☐

PROD. AREA
DELIVERY ZONE
MILEAGE

☐ HOURLY
☐ TONNAGE
☐ PER LOAD
RATE @ $

	JOB NO.	TRUCK NO.	TRAILER	LOADING START	LOADING STOP	DESCRIPTION
1	28003-3	202	221T	0800	1400	pump bio slime on site
2						Take load to yard
3						for Hold over
4						
5						
6						
7						
8						
9						
10						

REPORTING TIME	ENDING TIME	TOTAL TIME	DEDUCTIBLE TIME	NET TIME	TOTAL TONS
0600	1500	9			
START DRIVING TIME LAST TRIP	ARRIVAL TIME AT DUMP LAST TRIP	END LOADING LAST TRIP	RUNNING TIME LAST TRIP		

SUBJECT TO TERMS AND CONDITIONS ON REVERSE SIDE

ACCESSORIAL OTHER CHARGES
SUB TOTAL
TOTAL CHARGES

AIS
AMERICAN INTEGRATED SERVICES, INC.

3/18/08
DATE

DRIVER SIGNATURE

CUSTOMER SIGNATURE

TRANSPORTATION WORK ORDER

BILL NO. E- 0096699

AMERICAN INTEGRATED SERVICES, INC.
1502 E. OPP STREET
WILMINGTON, CA 90744
PH: 310-522-1168 FAX: 310-522-0474

DATE 3/19/08

JOB # 28003-3
BROKER #
TRUCK # 515
TRAILER # 221T
CA #

UNDERLYING CARRIER (IF ANY)
ADDRESS Boring Realty corp PH

CUSTOMER C.D.M.
ADDRESS OR BOX
JOB SITE
NAME AND ADDRESS OF DEBITOR IF OTHER THAN SHIPPER/CONSIGNOR
1455 Knox St Torrance Ca
415 S. Sh OR Wilmington

RECIEVER CONSIGNEE
ADDRESS OR BOX
CITY/STATE/ZIP
POINT OF ORIGIN
POINT OF DESTINATION

EQUIPMENT TYPE
- [ ] 10 WHEELER
- [x] 120 BBL VAC TRUCK
- [ ] SMALL VAC
- [ ] ROLL OFF
- [ ] LOWBOY
- [ ] END DUMP
- [ ] 40 YARD BOX
- [ ] 16 YARD BIN
- [ ] STAKE BED
- [ ] WATER TRUCK
- [ ] ____

PROD. AREA
DELIVERY ZONE
MILEAGE

- [ ] HOURLY
- [ ] TONNAGE
- [ ] PER LOAD

RATE @ $

	JOB NO.	TRUCK NO.	TRAILER	LOADING START	LOADING STOP	DESCRIPTION
1	28003-3	515	221T	0630	1600	purge wells on site
2						Help on site
3						0700 to 1600
4						
5						
6						used 90' of 1"
7						pvc stinger
8						
9						
10						

REPORTING TIME	ENDING TIME	TOTAL TIME	DEDUCTIBLE TIME	NET TIME	TOTAL TONS
0500	1700	12			
START DRIVING TIME LAST TRIP	ARRIVAL TIME AT DUMP LAST TRIP	END LOADING LAST TRIP	RUNNING TIME LAST TRIP		

ACCESSORIAL OTHER CHARGES
SUB TOTAL
TOTAL CHARGES

SUBJECT TO TERMS AND CONDITIONS ON REVERSE SIDE

AIS
AMERICAN INTEGRATED SERVICES, INC.

3/19/08
DATE

DRIVER SIGNATURE

CUSTOMER SIGNATURE

TRANSPORTATION WORK ORDER

BILL NO. E- 0096700

AMERICAN INTEGRATED SERVICES, INC.
1502 E. OPP STREET
WILMINGTON, CA 90744
PH: 310-522-1168 FAX: 310-522-0474

DATE 3/20/08

JOB # 28003-3
BROKER #
TRUCK # 515
TRAILER # 2217
CA #

UNDERLYING CARRIER (IF ANY)
ADDRESS Boeing Realty Corp PH

CUSTOMER J. D. M.
ADDRESS OR BOX
JOB SITE
NAME AND ADDRESS OF DEBITOR IF OTHER THAN SHIPPER/CONSIGNOR 1451 KNOX ST TORRANCE

RECIEVER CONSIGNEE
ADDRESS OR BOX
CITY/STATE/ZIP
POINT OF ORIGIN
POINT OF DESTINATION CROSBY & Overton Long Beach

EQUIPMENT TYPE
- [ ] 10 WHEELER
- [x] 120 BBL VAC TRUCK
- [ ] SMALL VAC
- [ ] ROLL-OFF
- [ ] LOWBOY
- [ ] END DUMP
- [ ] 40 YARD BOX
- [ ] 16 YARD BIN
- [ ] STAKE BED
- [ ] WATER TRUCK
- [ ] ____

PROD. AREA
DELIVERY ZONE
MILEAGE

- [x] HOURLY
- [ ] TONNAGE
- [ ] PER LOAD

RATE @ $

	JOB NO.	TRUCK NO.	TRAILER	LOADING START	LOADING STOP	DESCRIPTION
1	28003-3	515	2217	0530	2000	PUMP DOWN WELLS
2						on site pull sample
3						Take to Disposal
4						CROSBY Long Beach
5						wash out
6						
7						clean wash
8						AIS yard when
9						2000 to
10						

REPORTING TIME	ENDING TIME	TOTAL TIME	DEDUCTIBLE TIME	NET TIME	TOTAL TONS
0530	2130	16			
START DRIVING TIME LAST TRIP	ARRIVAL TIME AT DUMP LAST TRIP	END LOADING LAST TRIP	RUNNING TIME LAST TRIP		

ACCESSORIAL OTHER CHARGES
SUB TOTAL
TOTAL CHARGES

SUBJECT TO TERMS AND CONDITIONS ON REVERSE SIDE

AIS
AMERICAN INTEGRATED SERVICES, INC.

3/20/08
DATE

DRIVER SIGNATURE

CUSTOMER SIGNATURE

ase print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: CAL000255083
2. Page 1 of
3. Emergency Response Phone: 866-423-8060
4. Manifest Tracking Number: **004028394 JJK**

5. Generator's Name and Mailing Address
Boeing Realty Corporation
4501 E. Conant St.
Long Beach, CA 90808 USA
Generator's Phone: 562-497-6200

Generator's Site Address (if different than mailing address)
1451 Knox Street
Torrance, CA 90501 USA

6. Transporter 1 Company Name: American Integrated Services Inc
U.S. EPA ID Number: CAR000149338

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
Crosby & Overton
1630 W 16th Street
Long Beach, CA 90813 USA
Facility's Phone: 562-432-5445
U.S. EPA ID Number: CAD028408019

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
	1. Non-RCRA Hazardous Waste Liquid	1	TT	613	G	135		
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
Wear appropriate PPE when handling material. Weights or volumes are approximate.
Job #26003-3 Profile #67459

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: [illegible] Signature: [illegible] Month 03 Day 14 Year 16

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: [illegible] Signature: [illegible] Month 03 Day 18 Year 16
Transporter 2 Printed/Typed Name: Signature: Month Day Year

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

18b. Alternate Facility (or Generator) U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator) Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. H135 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: [illegible] Signature: [illegible] Month 3 Day 20 Year 16

GENERATOR — INT'L TRANSPORTER — DESIGNATED FACILITY

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

TRANSPORTER'S COPY

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UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: CAL000255063
2. Page 1 of
3. Emergency Response Phone: 888-423-6060
4. Manifest Tracking Number: 004028395 JJK

5. Generator's Name and Mailing Address
Bosing Realty Corporation
4501 E. Conant St.
Long Beach, CA 90808 USA
Generator's Phone: 562-497-6200

Generator's Site Address (if different than mailing address)
1451 Knox Street
Torrance, CA 90501 USA

6. Transporter 1 Company Name: American Integrated Services Inc
U.S. EPA ID Number: CAR000148330

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
Crosby & Overton
1630 W 16th Street
Long Beach, CA 90813 USA
Facility's Phone: 562-432-5445
U.S. EPA ID Number: CAD028408019

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
	1. Non-RCRA Hazardous Waste Liquid	1	TT	151	G	135		
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
Wear appropriate PPE when handling material. Weights or volumes are approximate.
Job #28003-3 Profile #67459

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: [illegible] Signature: [illegible] Month 03 Day 19 Year 08

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Irvin Duncan Signature: [illegible] Month 03 Day 19 Year 08
Transporter 2 Printed/Typed Name Signature Month Day Year

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

18b. Alternate Facility (or Generator) U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator) Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. H135 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: [illegible] Signature: [illegible] Month 3 Day 20 Year 08

GENERATOR — INTERNATIONAL — TRANSPORTER 1 — TRANSPORTER 2 — DESIGNATED FACILITY

Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

TRANSPORTER'S COPY

BOE-C6-0188472

ease print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
	CAL000255063		888-423-6060	004028396 JJK

5. Generator's Name and Mailing Address
Boeing Realty Corporation
4501 E. Conant St.
Long Beach, CA 90808 USA
Generator's Phone: 562-497-6300

Generator's Site Address (if different than mailing address)
1451 Knox Street
Torrance, CA 90501 USA

6. Transporter 1 Company Name: American Integrated Services Inc — U.S. EPA ID Number: CAR000148338

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address
Crosby & Overton
1630 W 16th Street
Long Beach, CA 90813 USA
Facility's Phone: 562-432-5445

U.S. EPA ID Number: CAD028409019

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
	1. Non-RCRA Hazardous Waste Liquid	1	TT	297	G	135		
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
Wear appropriate PPE when handling material. Weights or volumes are approximate.
Job #28003-3 Profile #67459

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: [illegible] — Signature: [illegible] — Month 03 Day 20 Year 08

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Irvin Duncan — Signature: [signature] — Month 03 Day 20 Year 08
Transporter 2 Printed/Typed Name — Signature — Month Day Year

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H-135			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: [illegible] — Signature: [signature] — Month 3 Day 20 Year 08

A Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

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