SECOND QUARTER 2008
WASTE DISCHARGE REQURIEMENTS
MONITORING REPORT
BIORECIRCULATION PILOT TEST
FORMER BUILDING 1/36 AND
C-SAND BIOREMEDIATION AMENDMENT
INJECTIONS, FORMER BUILDING 2

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

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

July 29, 2008

AVOCET
ENVIRONMENTAL, INC.

Second Quarter 2008
WDR Monitoring Report

Boeing Former C-6 Facility
Los Angeles, California

July 29, 2008

prepared for

The Boeing Company

Project No. 1155.006

prepared by

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

July 29, 2008

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July 29, 2008
C6-CRE-T-09-001

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
Los Angeles Region
320 W. 4th Street, Suite 200
Los Angeles, CA 90013

Attention: Information Technology Unit

Subject: **SECOND QUARTER 2008 WASTE DISCHARGE REQUIREMENTS (WDR) MONITORING REPORT,**
COMPLIANCE FILE CI-9310, ORDER NO. R4-2007-0040,
BIORECIRCULATION PILOT TEST, FORMER BUILDING 1/36 AND C-SAND BIOREMEDIATION AMENDMENT INJECTIONS, FORMER BUILDING 2
FORMER BOEING C-6 FACILITY
19503 NORMANDIE AVENUE, LOS ANGELES, CA 90501

To Whom It May Concern:

Please find enclosed for your review, a copy of the subject document prepared by Avocet Environmental, Inc. (Avocet) for Boeing Corporate Real Estate (CRE). This document is being submitted to meet the reporting requirements identified in the above-referenced WDR order.

I certify under penalty of law that this document, including all attachments and supplemental information, was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

If you have any questions, please contact the undersigned at (562) 824-1827.

Executed on this 29th day of July 2008 at Long Beach, California.

Sincerely,

Mario Stavale
Boeing Corporate Real Estate

Cc: Ana Townsend, LARWQCB
Robert Scott, Boeing Corporate Real Estate

Enclosure

AVOCET
ENVIRONMENTAL, INC.

July 29, 2008 Project No. 1155.006

Information Technology Unit
CALIFORNIA REGIONAL WATER QUALITY
CONTROL BOARD, LOS ANGELES REGION
320 West 4th Street, Suite 200
Los Angeles, California 90013

Second Quarter 2008
Waste Discharge Requirements Monitoring Report
Biorecirculation Pilot Test, Former Building 1/36 and
C-Sand Bioremediation Amendment Injections, Former Building 2
Compliance File CI-9310, Order No. R4-2007-0040
Boeing Former C-6 Facility
19503 South Normandie Avenue
Los Angeles, California

Dear Sir / Madam:

Enclosed is the Waste Discharge Requirements Monitoring Report for activities conducted during the Second Quarter 2008 at the subject site. The report summarizes the work performed for the Former Building 1/36 area Biorecirculation Pilot Test and for C-Sand Bioremediation Amendment Injections conducted at the Former Building 2 area. 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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AVOCET ENVIRONMENTAL, INC.

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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
EPA	U.S. Environmental Protection Agency
gpm	gallon per minute
IDW	investigation-derived waste
ml	milliliter
MRP	Monitoring and Reporting Program
mV	millivolt
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). This WDR report encompasses:

- biorecirculation pilot study and monitoring activities conducted at the Former Building 1/36 area during the second quarter of 2008
- C-Sand bioremediation amendment injections conducted at the Former Building 2 area during the second quarter of 2008
- baseline groundwater monitoring performed at the Former Building 2 area in March 2008.

This work is conducted pursuant to WDR Order Number R4-2007-0040 (the WDR Order), Compliance File CI-9310 (LARWQCB, February 15, 2008). This is a recently 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.* (Referred to herein as the Building 2 Addendum Workplan)

The February 15, 2008 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.

The purpose of this report is to provide a summary of bioremediation and groundwater monitoring activities performed at the Former Building 1/36 and Building 2 areas 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 in the Former Building 1/36 area and the Former Building 2 area are shown in Figures 2 and 3, respectively. It should be noted that although quarterly reporting under the WDR Order was initiated in July 2007, startup of the biorecirculation system in the Former Building 1/36 area 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 in this area was thereby initiated in January 2008.

During the second quarter of 2008, the following activities were performed at the Former Building 1/36 area:

- Continuation of the Biorecirculation Pilot Test using whey as the amendment. Testing included extraction, injection, and recirculation using water from Extraction Wells EWB001 and WCC_06S.
- Continuation of biofouling mitigation measures, including flushing/cleaning of Biorecirculation Pilot Test injection wells and amendment conveyance piping.
- Monthly WDR monitoring conducted in April and May 2008. These events constitute Months 4 and 5 of six consecutive monthly monitoring events.
- Quarterly WDR sampling event conducted in June 2008. This event constitutes Month 6 of the six consecutive monthly monitoring events.

In March 2008 and during the second quarter of 2008, the following activities were performed at the Former Building 2 area:

- Baseline groundwater monitoring, including water level measurement and groundwater sample collection from six wells, was conducted in March 2008.
- Injection of electron donor and bioaugmentation culture into C-Sand amendment wells connected to Vault 4. Amendment injections started in late April and concluded in early July. Since injection activities extended into late June/early July, the "Month 1" monitoring event, originally scheduled for June, was postponed to early August. A revised MRP was prepared by Camp Dresser McKee, Inc. (CDM) and submitted to the LARWQCB on July 7, 2008.

The specifics regarding monthly, quarterly, and baseline 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 Former Building 1/36 area Biorecirculation

Pilot Test and Former Building 2 area C-Sand Bioremediation Amendment Injections are presented in Section 4.0. Implementation of biofouling control measures 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 CDM.

2.0 WDR GROUNDWATER MONITORING

During the second quarter of 2008, two monthly WDR monitoring events, in April and May 2008, and one quarterly monitoring event, in June 2008, were conducted in the Building 1/36 area. Also, baseline WDR groundwater monitoring was conducted in the Building 2 area in March 2008. For each event, groundwater monitoring included depth-to-water 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 Former Building 1/36 area WDR well scheduled for groundwater level measurements was gauged for depth to water on April 22, May 20, and June 17, 2008. Well completion details for all WDR wells are provided in Table 1 and the depth-to-water measurements are summarized in Table 2.

During March 2008, water levels were gauged for all site wells, including the Former Building 1/36 area and Former Building 2 area WDR wells, in conjunction with the annual 2008 site-wide monitoring program (Avocet, May 22, 2008). The groundwater elevation contours for wells screened in the B-Sand are shown in Figure 4 and the elevation contours for C-Sand wells are shown in Figure 5. The average hydraulic gradient in both the B- and C-Sands is approximately 0.0008 ft/ft with flow toward the south. The B-Sand groundwater contours shown in Figure 4 depict a localized groundwater mound surrounding the Former Building 1/36 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]) and a Lamotte 2020 turbidimeter was used to record turbidity during the purging process. 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 one or more of the following:

- Volatile organic compounds (VOCs) using U.S. Environmental Protection Agency (EPA) Method 8260B.
- 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.
- 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).

The laboratory analytical results for the Former Building 2 area baseline event and for second quarter 2008 sampling events at the Former Building 1/36 area 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 Former Building 1/36 area 2007 baseline monitoring and first quarter 2008 sampling results. Laboratory analytical reports for the second quarter 2008 Former Building 1/36 area WDR monitoring events and Former Building 2 area March 2008 baseline monitoring, with associated chain-of-custody documentation, are provided in Appendix B.

3.0 DATA EVALUATION

3.1 FORMER BUILDING 1/36 AREA GROUNDWATER SAMPLE RESULTS

The results of the Former Building 1/36 WDR sampling data to date indicate that the pilot test has significantly stimulated degradation of the key VOCs at the site. In the six months since the start of amendment injections, evidence of significant degradation of key VOCs is apparent in downgradient Wells EWB002, AW0077UB, AW0076UB, and AW0075UB. These wells range from approximately 20 to 100 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 TOC, VFAs (which are intermediate degradation products), dissolved gas (methane – indicating good redox conditions), and Dehalococcoides bacteria, the amendment injections have not significantly impacted water quality adversely 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 to date from wells located downgradient (TWM_07 and WCC_12S) of the pilot test area indicate that no contaminants associated with amendment activities are migrating away from the test area.

Effects from the pilot test are showing up in Well AW0055UB, which had been identified as the upgradient well in the MRP. These effects consist of increases in the DHC 16S rRNA gene and functional genes tceA and bvcA. After further review, AW0055UB should not have been chosen as an upgradient well due to its proximity (approximately 70 feet from the active injection wells) to the treatment area, and it is not entirely unexpected that effects would show up in that well (due to mounding of groundwater at the injection wells). Therefore, AW0055UB should be considered as one of the performance monitoring wells (Group B1). Well AW0055UB is well within the property boundary and shows only minor effects (which in these case are considered beneficial), so there is no reason to believe that effects from the pilot test are migrating offsite.

Based on the above observations, a new upgradient well is proposed that is well outside of the treatment area, such as MWB006. Well MWB006 is further upgradient from the treatment zone (approximately 250 feet) and is not anticipated to be impacted by the treatment zone, while still providing monitoring at the boundary of the Building 1/36 area to confirm that there are no impacts outside the treatment area. These changes will be proposed in a revision to the WDR MRP, along with any additional sampling that may be required.

3.2 FORMER BUILDING 2 AREA BASELINE GROUNDWATER SAMPLE RESULTS

Former Building 2 area WDR wells from Groups B, C, and D were sampled in March 2008 and analyzed for those parameters outlined in Section 2.3 and presented in Tables 4 through 9.

Stabilized field parameters measured during groundwater sampling activities are summarized in Table 3. This pre-injection data will be used as a baseline for the evaluation of future post-injection data.

4.0 AMENDMENT ACTIVITIES

4.1 FORMER BUILDING 1/36 AREA

During the second quarter of 2008, the Former Building 1/36 area Biorecirculation Pilot Test was conducted using extracted water from Wells EWB001 and WCC_06S. Following extraction, the water was appropriately mixed with whey (electron donor) prior to injection. The amendment solution (average concentration of 3 percent) was then injected into amendment wells AW0066UB and AW0067UB (B-Sand) with flow rates ranging from 2 to 8 gallons per minute (gpm), with an average flow rate of approximately 4 gpm. During the periods of non-whey injection, the system was operated on a continuous recirculation basis, with only the extracted water from Wells EWB001 and/or WCC_06S reinjected into amendment wells AW0066UB and AW0067UB. Groundwater was extracted from Well EWB001 at an average rate of approximately 3 gpm (ranging from 3 to 4 gpm) and from Well WCC-06S at an average rate of approximately 4 gpm (ranging from 3 to 6 gpm).

The system was intermittently offline to address biofouling and to perform other operation-and-maintenance-related tasks (See Section 5.0). During this quarter, the system was operational 66 percent of the time, with whey being injected during 25 of the 91 days of the quarter.

Recent observations of the extracted water from Well WCC_06S indicate the presence of black suspended solids. The presence of these black, biological-activity-related solids suggest that operation of Well WCC_06S has significantly improved the hydraulic distribution of electron donor in the area of the pilot test. To minimize the impact of these suspended solids on the system components, the solids are being filtered out using inline cartridge filters prior to recirculation.

During the second quarter of 2008, a total of 8,686 pounds (dry weight) of electron donor (34,871 gallons as solution) was injected into Wells AW0066UB and AW0067UB. From December 2007 through the end of the second quarter of 2008, the total amount of electron donor injected was 16,464 pounds (75,357 gallons as solution). The dates and quantities of electron donor injection are summarized in Table 10.

4.2 FORMER BUILDING 2 AREA

During the second quarter of 2008, electron donor and bioaugmentation culture slug injections were initiated at Vault 4, a recessed structure containing the manifolded surface terminations of 20 buried C-Sand injection wells located in the Former Building 2 area (Figure 3). Electron donor solution consisting of approximately 3 percent lactate was created by mixing 60 percent sodium lactate with city potable water. Injection activities were performed in two phases.

In the first phase, which was conducted between April 29 and May 9, 2008, small volumes of electron donor were injected into 19 of the 20 Vault 4 injection wells to determine which of the wells could maintain flow at low pressure or under siphoning conditions. These injection protocols were conducted to avoid over-pressurizing the conveyance lines and prevent well or piping failure and surface leakage. After it was determined that 12 of the wells would accept flow under these conditions, the full target volume of donor solution was injected into these 12 wells at low pressure. After the first phase of injection was completed, eight of the injection wells were identified for bioaugmentation. Residual lactate solution was later injected into the injection wells between June 4 and 6, 2008.

The second phase, implemented between June 17 and June 23, 2008, consisted of injecting bioaugmentation solution into select C-Sand amendment wells. The anoxic water needed for this phase was prepared by mixing city potable water with small amounts of lactate in a 4,000-gallon aboveground storage tank. The solution was periodically checked for DO and ORP levels to verify that it remained anoxic (DO less than 0.5 part per million (ppm) and ORP less than -100 millivolt [mV]). Additional quantities of lactate were added (up to 1,000 ppm) to the water, as appropriate, to maintain the anoxic conditions.

The second phase of injections was then initiated by pumping (under low pressure) or siphoning anoxic water into the conveyance lines and casings of the eight wells selected for bioaugmentation to purge the lines/casings of donor solution and verify that the wells would still accept flow under these conditions. Following this purge, each of the eight wells were bioaugmented, one at a time, by injecting the culture into the conveyance lines. Following injection of the bioaugmentation solution, additional anoxic water was flushed through the lines to fully distribute the culture into the formation.

A total of approximately 45,390 gallons of lactate solution, 3,076 gallons of anoxic water, and 320 liters of Shaw's SDC-9TM culture were injected into the C-Sand amendment wells as of June 30, 2008. The quantities of donor, anoxic water, and bioaugmentation injected into each well are summarized in Table 11.

5.0 BIOFOULING MITIGATION MEASURES

After biofouling was observed in February 2008, CDM made modifications to the biorecirculation system in the Former Building 1/36 area to reduce pressure buildup, including gas release valves at the injection wells, miscellaneous pipeline modifications, and control strategy adjustments. Periodic cleaning of certain system components has also been performed to address injection line pressure increases.

In May 2008, biofouling was again observed in the system downstream of the whey mixer. Observations included high injection pressures at the wellheads for AW0067UB and AW0066UB, and the presence of biofilm in the injection wells, wellheads, and pipelines. Between May 20 and May 23, 2008, CDM took additional steps in mitigating and controlling the biofouling. These steps are summarized below in chronological sequence:

- Wells AW0067UB and AW0066UB were dosed with approximately 0.25 gallon of LBA™, (glycolic acid), which was allowed to "sit" for approximately 48 hours.

- In the interim, system conveyance was flushed with approximately 1,150 gallons of city potable water. Injection well conveyance piping was back-flushed to the distribution vault with approximately 500 gallons of city water. Black biological solids were observed during back-flushing. All rinsate water was collected into a vacuum truck.

- After approximately 48 hours, additional LBA™ was added to Wells AW0067UB and AW0066UB and agitated using compressed air and submersible pumps. The mixing was done at 5-foot intervals from approximately 60 to 90 feet below ground surface. A shock treatment of approximately 500 milliliters (ml) of bleach was also added to each well. After being allowed to sit for another 24 hours, the injection wells were equipped with a stinger and purged using a vacuum truck. Gray muddy solids were observed. The wells were allowed to recharge and then purged again for two hours, until the well water was observed to be clear. A total of approximately 150 gallons of water was removed from Wells AW0067UB and AW0066UB.

- After the wells were purged, the biorecirculation system was flushed with approximately 600 gallons of city potable water. The flush discharge water was collected into the vacuum truck.

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

Toward the end of the quarter, CDM observed the pressures in the wells again increasing. Recirculation with no whey injection was performed for a full week, which resulted in a substantial lowering of the injection pressures.

6.0 INVESTIGATION-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. The purge water generated during groundwater monitoring activities was placed within appropriately labeled 55-gallon drums and temporarily stored within the secure treatment compound pending profiling and final disposition. Approximately 60 gallons of purge and decontamination water were generated during the April, May, and June 2008 monitoring events.

A total of 3,326 gallons of water was generated by biofouling mitigation. From May 21 to 23, 2008, the water generated during April and May 2008 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. The final disposition of the IDW water generated during June 2008 will be presented in the third quarter 2008 WDR report.

7.0 FUTURE ACTIVITIES

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

- Continued operation of the biorecirculation system using water extracted from Well EWB001 and/or Well WCC_06S, amending the extracted water with electron donor, and injecting the solution into Wells AW0066UB and AW0067UB. Well WCC_06S has been incorporated into the recirculation system on a contingency basis per the revised WDR Order to augment the flow from Extraction Well EWB001.

- Bioaugmentation of the Former Building 1/36 area pilot test wells, if necessary.

- Evaluation the Former Building 1/36 WDR 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.

- Complete the remainder of the C-Sand bioremediation amendment injections (residual lactate and anoxic water solutions) in early July 2008 at the Former Building 2 area per the revised WDR Order.

- Due to the delay in completing the C-Sand amendment injections in the Former Building 2 area until early July, a revised MRP and schedule was prepared and submitted to the LARWQCB (CDM, July 7, 2008). The revised schedule recommends the first round of performance monitoring (Month 1) for August 2008 and that the Month 3 sampling event be shifted to Month 2 and planned for September 2008 – to be conducted concurrent with the sitewide semiannual groundwater monitoring event.

- For the Former Building 1/36 area, the revised MRP recommended shifting the third and fourth quarter sampling events from August and November to September and December to be conducted concurrently with the sitewide semiannual and Former Building 2 WDR sampling events.

- Other proposed changes in the revised MRP included shifting the Building 2 semiannual reporting schedule to January and July of each year to coincide with the reporting dates for the Building 1/36 WDR reports.

- Prepare a revision to the Building 1/36 area MRP to change current upgradient well AW0055UB to a performance monitoring well and choose a new upgradient well that is well outside of the treatment area, such as MWB006, as described in Section 3.1.

Beyond the third quarter of 2008, quarterly WDR monitoring at both the Former Building 1/36 and Building 2 areas will be conducted on a coincident schedule (December, March, June, and September) with combined Former Building 1/36 and Building 2 area WDR reports submitted semiannually in January and July. These reports will continue to be combined, as appropriate, until such time as one or both of the programs are completed.

Respectfully submitted,

AVOCET ENVIRONMENTAL, INC.

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

REFERENCES

Avocet Environmental, Inc., January 29, 2008, *Fourth Quarter 2007 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.*

Avocet Environmental, Inc., April 29, 2008, *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, 19503 South Normandie Avenue, Los Angeles, California.*

Avocet Environmental, Inc., May 22, 2008, *2008 Annual Groundwater Monitoring Report, Boeing Former C-6 Facility, 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., 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, Former C-6 Facility, 19503 South Normandie Avenue, Los Angeles, California, File No. 95-036; SLIC No. 410; Site ID No. 1846000.*

Camp Dresser McKee, Inc., January 25, 2008, *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.*

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, Former C-6 Facility, 19503 South Normandie Avenue, Los Angeles, California, Compliance File CI-9310, Order No. R4-2007-0040.*

Camp Dresser McKee, Inc., July 7, 2008, *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.*

TABLES

Tables

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ENVIRONMENTAL, INC.

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
Former Building 1/36 Area											
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
Former Building 2 Area											
Injection Wells (Group A)											
IRZC0001	C-Sand	6,470,257	1,768,637	48.05	-	92.5 - 117.5	91	1.5	-	0.01	-
IRZC0003	C-Sand	6,470,319	1,768,614	49.21	-	92.5 - 117.5	91	1.5	-	0.01	-
IRZC0004	C-Sand	6,470,294	1,768,604	48.59	-	92.5 -117.5	91.5	1.5	-	0.01	-
IRZC0005	C-Sand	6,470,272	1,768,594	48.88	-	91.5 - 116.5	90	1.5	-	0.01	-
IRZC0006	C-Sand	6,470,243	1,768,584	48.32	-	91.5 - 116.5	90	1.5	-	0.01	-
IRZC0007	C-Sand	6,470,400	1,768,591	53.23	-	96 - 121	95	1.5	-	0.01	-
IRZC0008	C-Sand	6,470,372	1,768,581	53.22	-	96 - 121	95	1.5	-	0.01	-
IRZC0009	C-Sand	6,470,346	1,768,571	53.22	-	99.5 - 124.5	98.5	1.5	-	0.01	-
IRZC0010	C-Sand	6,470,315	1,768,561	49.10	-	92.5 - 117.5	91.5	1.5	-	0.01	-
IRZC0011	C-Sand	6,470,281	1,768,552	48.74	-	93 - 118	92	1.5	-	0.01	-
IRZC0012	C-Sand	6,470,258	1,768,542	48.27	-	93 - 117	91	1.5	-	0.01	-
IRZC0013	C-Sand	6,470,414	1,768,564	53.21	-	95 - 120	94	1.5	-	0.01	-
IRZC0014	C-Sand	6,470,381	1,768,537	53.22	-	95 - 120	94	1.5	-	0.01	-
IRZC0015	C-Sand	6,470,358	1,768,528	53.22	-	96.5 - 121.5	95.5	1.5	-	0.01	-
IRZC0016	C-Sand	6,470,336	1,768,519	53.23	-	100.5 - 124.5	99.5	1.5	-	0.01	-
IRZC0017	C-Sand	6,470,301	1,768,509	48.80	-	91 - 116	90	1.5	-	0.01	-
IRZC0018	C-Sand	6,470,429	1,768,506	53.25	-	99.5 - 124.5	98.5	1.5	-	0.01	-
IRZC0019	C-Sand	6,470,401	1,768,486	53.25	-	95 - 120	94	1.5	-	0.01	-
IRZC0020	C-Sand	6,470,373	1,768,486	53.05	-	99.5 - 124.5	98.5	1.5	-	0.01	-
Performance Monitoring Wells (Group B)											
CMW026	C-Sand	6,470,279	1,768,603	51.53	-	92 - 117	90	4	Sch 40 PVC	0.01	08/06/03
IRZCMW002	C-Sand	6,470,417	1,768,410	55.60	-	96 - 121	94	4	Sch 40 PVC	0.01	05/12/04
IRZCMW003	C-Sand	6,470,298	1,768,593	51.69	-	92 - 117	90	4	Sch 40 PVC	0.01	08/08/03
MWC024	C-Sand	6,470,266	1,768,409	51.64	-	96 - 121	93	4	Sch 80 PVC	0.02	10/26/06
Downgradient Well (Group C)											
CMW002	C-Sand	6,470,554	1,767,936	52.81	-	99 - 124	97	4	Sch 40 PVC	0.01	08/14/03
Upgradient Well (Group D)											
IRZCMW001	C-Sand	6,470,218	1,768,660	51.74	-	92 - 117	90	4	Sch 40 PVC	0.01	08/06/03

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 amsl.

- = Unknown

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)
Former Building 1/36 Area						
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
	04/22/08		58.87	-5.59	NM	0.1
	05/20/08		58.78	-5.50	NM	1.2
	06/17/08		58.85	-5.57	NM	NM
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
	04/22/08		59.29	-5.65	NM	19.3
	05/20/08		59.19	-5.55	NM	11.2
	06/17/08		59.32	-5.68	NM	11.6
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
	3/24/2008		59.79	-5.81	89.37	28.2
	04/22/08		59.37	-5.39	NM	27.1
	05/20/08		59.82	-5.84	NM	4.7
	06/17/08		59.98	-6.00	NM	0.3
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
	3/24/2008		59.81	-5.80	89.52	0.0
	04/22/08		58.94	-4.93	NM	0.0
	05/20/08		59.64	-5.63	NM	0.7
	06/17/08		58.52	-4.51	NM	4.1
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
	04/22/08		60.31	-6.57	NM	4.1
	05/20/08		60.19	-6.45	NM	4.4
	06/17/08		60.28	-6.54	NM	10.2

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)
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
	04/22/08		59.35	-6.62	NM	2.7
	05/20/08		59.30	-6.57	NM	0.2
	06/17/08		59.34	-6.61	NM	0.9
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
	04/22/08		59.87	-6.64	NM	2.9
	05/20/08		59.85	-6.62	NM	2.7
	06/17/08		59.85	-6.62	NM	48.2
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
	04/22/08		59.34	-5.65	NM	5.3
	05/20/08		60.27	-6.58	NM	4.9
	06/17/08		60.34	-6.65	NM	21.8
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
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

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)
Former Building 2 Area						
CMW026	03/24/08	51.53	59.19	-7.66	117	3.1
IRZCMW002	03/24/08	55.60	63.53	-7.93	121	3.2
IRZCMW003	03/24/08	51.69	59.42	-7.73	117	1.2
MWC024	03/24/08	51.64	59.38	-7.74	125	0.0
CMW002	03/24/08	52.81	60.95	-8.14	124	0.0
IRZCMW001	03/24/08	51.74	59.31	-7.57	117	0.2

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

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)
Former Building 1/36 Area									
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
	B-Sand	06/18/08	6.57	22.25	0.77	3.06	0.16	-120	1.11
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	3.30
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
	B-Sand	06/17/08	4.26	24.49	731	3.16	0.22	-166	1.18
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
	B-Sand	06/17/08	4.07	24.49	207	2.53	0.17	-101	1.79
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	7.1	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
	C-Sand	04/22/08	6.89	22.6	75.2	0.907	0.22	-245	1.11
	C-Sand	05/20/08	7.11	22.17	10.81	0.793	0.13	-274	1.07
	C-Sand	06/17/08	7.09	22.84	16.7	0.809	0.1	-179	1.87
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	21.9	- -	1.75	0.8	-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	0.1	-265	1.65
	B-Sand	03/25/08	6.69	22.01	1.9	2.61	0.69	15	1.44
	B-Sand	04/22/08	6.37	22.46	29.7	3.2	0.27	-175	1.37
	B-Sand	05/20/08	6.44	22.08	19.2	3.1	0.21	-185	1.29
	B-Sand	06/18/08	6.44	23.39	16	3.53	0.07	-156	1.49
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	3.30
	B-Sand	01/30/08	6.52	21.7	- -	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
	B-Sand	04/22/08	6.41	22.11	7.32	3.3	0.31	-169	1.49
	B-Sand	05/20/08	6.52	22.55	3.72	3.62	0.29	-19	1.43
	B-Sand	06/18/08	6.46	23.18	1.27	3.74	0.09	-134	1.62

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)
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
	B-Sand	04/22/08	5.97	21.5	7.07	2.92	0.5	-205	0.72
	B-Sand	05/20/08	6.02	21.62	6.99	2.97	0.34	-238	0.81
	B-Sand	06/18/08	6.26	22.48	8.37	3.21	0.08	-157	2.64
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	3.30
	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	0.3	-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
	B-Sand	04/22/08	6.26	21.64	0.32	3.14	0.29	-214	1.42
	B-Sand	05/20/08	6.46	21.94	0.97	3.02	0.19	-217	1.49
	B-Sand	06/18/08	6.43	22.22	2.94	3.21	0.07	-141	3.30
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
	B-Sand	06/17/08	6.97	22.69	0.27	1.6	4.3	47	0.00
WCC_06S	B-Sand	05/08/07	7	25	48	2.9	2.5	-138	3.30
	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	7.3	22.4	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
	B-Sand	06/17/08	7.03	21.88	1.05	1.81	4.2	129	0.06
Former Building 2 Area									
CMW002	C-Sand	03/26/08	7.34	21.71	0.8	0.96	0.68	-58	0.01
CMW026	C-Sand	03/26/08	6.87	21.28	2.2	1.15	0.4	-98	1.69
IRZCMW001	C-Sand	03/26/08	7.26	21.5	7.5	1.22	5.09	129	0.00
IRZCMW002	C-Sand	03/26/08	6.88	20.79	3.3	1.95	0.42	98	1.87
IRZCMW003	C-Sand	03/26/08	7.3	21.15	1.9	0.93	0.37	-121	0.02
MWC024	C-Sand	03/26/08	7.22	21.48	0.1	1.53	0.39	-133	0.02

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
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
Former Building 1/36 Area																
AW0055UB	B-Sand	05/10/07	Primary	60	44	440	8,800	140	6,900	3,000	1,200	47	<25	<25	<50	51
	B-Sand	06/20/07	Primary	96	63	510	9,500	130	38,000	9,300	3,800	62	<20	<20	<40	51
	B-Sand	03/25/08	Primary	14 J	48	550	19,000	99	<200	<200	<400	67	<40	<40	<80	52
	B-Sand	06/18/08	Duplicate	14 J	46	530	12,000	92	<200	<200	<400	58	<40	<40	<80	64
	B-Sand	06/18/08	Primary	15	50	520	12,000	94	<50	<50	<100	59	<10	<10	<20	66
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
	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
	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
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
	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
	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
	B-Sand	06/17/08	Primary	25	19	100	1,500	28	120	590	450	19	<2	12 P-HS	1.1 J	5.8
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
	B-Sand	06/19/07	Primary	20	19	400	7,200	44	<120	17	<250	25	<1	<1	0.57 J	42
	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
	B-Sand	06/17/08	Primary	20	20	100	920	29	200	650	550	18	<4	15	5.1 J	5.8
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
	C-Sand	06/20/07	Primary	600	42 J	120	4,600	64	9,700	25,000	720	34 J	<50	<50	<100	<50
	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
	C-Sand	02/26/08	Primary	110	11	84	2,000	32	<50	1,300	140	16	<10	<10	<20	3.9 J
	C-Sand	03/25/08	Primary	53	7 J	73	520	22	720	300	490	13	<20	<20	<40	<20
	C-Sand	04/22/08	Primary	40	8 J	71	520	19	<50	<50	60 J	11	<10	<10	<20	<10
	C-Sand	05/20/08	Primary	5.6	1.2 J	39	81	12	<10	170	<20	4	<2	<2	2.8 J	<2
	C-Sand	06/17/08	Primary	9.4	3	38	110	7.3	<10	<10	<20	3.9	<2	<2	<4	<2
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
	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
	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
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
	B-Sand	06/21/07	Primary	99	50	410	10,000	87	600	5,100	1,300 J	110	<20	<20	<40	<20
	B-Sand	01/30/08	Primary	350	82	560	14,000	140	11,000	26,000	5,100	95	<40	<40	<80	40
	B-Sand	02/26/08	Primary	250	78 J	560	13,000	180	19,000	26,000	10,000	73	<100	<100	<200	<100
	B-Sand	03/25/08	Primary	230	76	490	4,200	140	34,000	15,000	5,600	64	<50	<50	<100	28 J
	B-Sand	04/22/08	Primary	100	79 J	540	3,200	130	34,000	20,000	8,900	50	<100	<100	<200	<100
	B-Sand	04/22/08	Duplicate	100	77 J	540	3,200	130	38,000	24,000	14,000	44 J	<100	<100	<200	<100
	B-Sand	05/20/08	Primary	22 J	42	320	2,300	87	12,000	5,500	3,900	32	<40	<40	<80	<40
	B-Sand	05/20/08	Primary	<100	62 J	460	4,800	120	40,000	9,800	12,000	42 J	<100	<100	<200	<100

AVOCET ENVIRONMENTAL, INC.

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

Well I.D.	Category	Sample Date	Sample Type	Chloromethane	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
Former Building 1/36 Area																	
AW0055UB	B-Sand	05/10/07	Primary	<50	10,000	--	<25	--	<25	--	<25	1,200	1,400	270	1,600	<50	40
	B-Sand	06/20/07	Primary	<40	12,000	--	<20	--	<20	--	<20	3,400	3,000	360	1,500	<40	67
	B-Sand	03/25/08	Primary	<80	9,100	14 J	<40	<40	<40	<20	<40	<400	120	480	11,000	<80	160
	B-Sand	06/18/08	Duplicate	<80	6,800	11 J	<40	<40	<40	<20	<40	<400	150	380	11,000	<80	250
	B-Sand	06/18/08	Primary	<20	7,100	12 J	3.1 J	17	<10	5.6	<10	40 J	150	390	11,000	<20	250
AW0065UB	B-Sand	05/10/07	Primary	<400	6,200	--	<200	--	<200	--	<200	2,300	14,000	310	<200	<400	<100
	B-Sand	05/10/07	Duplicate	<500	7,000	--	<250	--	<250	--	<250	2,400 J	15,000	350	<250	<500	<120
	B-Sand	06/21/07	Primary	<400	8,700	--	<200	--	<200	--	<200	5500 B	15,000	360	86 J	<400	<100
AW0066UB	B-Sand	05/10/07	Primary	<500	8,400	--	<250	--	<250	--	<250	1,800 J	8,700	360	100 J	<500	220
	B-Sand	06/20/07	Primary	<2,000	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	6.3	180	<2	0.32 J	<1	1.2	<0.5	<1	82	5.7	8.1	72	<2	100
	B-Sand	06/17/08	Primary	<4	920	<4	4.1	20	<2	7.8	<2	12 J	2,000	67	590	<4	860
AW0067UB	B-Sand	05/10/07	Primary	<40	1,000	--	<20	--	<100	--	<20	8,900	79	73	3,700	<40	<10
	B-Sand	06/19/07	Primary	<2	6,100	--	1.1	--	1.7	--	0.36 J	480	390	220	3,100	<2	10
	B-Sand	03/25/08	Primary	14	500	<8	<4	<4	<4	<2	<4	240	5.5	13	160	<8	6.4
	B-Sand	06/17/08	Primary	<8	820	<8	3.4 J	15	<4	6.1	<4	22 J	2,000	63	510	<8	780
AW0073C	C-Sand	05/10/07	Primary	<80	1,200	--	11 J	--	<100	--	<40	4,900	12,000	75	210	<80	<20
	C-Sand	06/20/07	Primary	<100	1,400	--	<50	--	<50	--	<50	5,400	14,000	84	140	<100	<25
	C-Sand	01/29/08	Primary	<40	770	--	6 J	--	<20	--	<20	470	6,900	54	53	<40	94
	C-Sand	02/26/08	Primary	<20	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	<40	290	<40	<20	14 J	<20	<10	<20	9,800	3,200	35	14 J	<40	810
	C-Sand	04/22/08	Primary	<20	160	2.7 J	<10	6.7 J	<10	<5	<10	720	2,900	28	14	<20	1,200
	C-Sand	05/20/08	Primary	<4	46	1.3 J	0.84 J	3.6	<2	1.2	<2	7,700	620	12	3.5	<4	430
	C-Sand	06/17/08	Primary	<4	36	1.3 J	1 J	5	<2	1.8	<2	2,200	850	11	15	<4	480
AW0074UB	B-Sand	05/09/07	Primary	1.1 J	120	--	<1	--	54	--	0.55 J	880	0.79 J	79	2,300	<2	0.52
	B-Sand	06/19/07	Primary	<2	1,100	--	1.1	--	<1	--	0.35 J	1,000	290	120	1,400	<2	5
	B-Sand	01/29/08	Primary	<20	730	--	<10	--	<10	--	<10	52 J	220	77	2,000	<20	3.9 J
AW0075UB	B-Sand	05/09/07	Primary	<2	6,800	--	24	--	160	--	<1	3,700	12,000	340	560	<2	32
	B-Sand	06/21/07	Primary	<40	6,700	--	24	--	94	--	<20	880	15,000	330	410	<40	62
	B-Sand	01/30/08	Primary	<80	8,000	--	17 J	--	<40	--	<40	270 J	18,000	390	460	<80	1,000
	B-Sand	02/26/08	Primary	<200	7,400	<200 L	<100	<100	<100	<50	<100	<1,000	12,000	340	460	<200 L	800
	B-Sand	03/25/08	Primary	<100	4,300	<100	<50	60	<50	24 J	<50	<500	6,900	310	370	<100	3,300
	B-Sand	04/22/08	Primary	<200	2,700	<200	<100	<100	<100	<50	<100	<1,000	9,800	210	<100	<200	5,600
	B-Sand	04/22/08	Duplicate	<200	2,600	<200	<100	<100	<100	<50	<100	<1,000 C	11,000	220	<100	<200	6,600
	B-Sand	05/20/08	Primary	<80	1,500	<80	<40	30 J	<40	14 J	<40	<400	4,600	160	340	<80	3,000
	B-Sand	05/20/08	Primary	<200	2,600	570	<100	<100	<100	<50	<100	<1,000	6,400	210	280	<200	2,800

AVOCET ENVIRONMENTAL, INC.

Table 4
Summary of Prevalent Volatile Organic Compounds Analytical Results
(Units are µg/l)
Boeing Former C-6 Facility
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
AW0076UB	B-Sand	05/09/07	Primary	88	180	990	9,800	260	75,000	31,000	18,000	100	<1	<1	<2	53
	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
	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
	B-Sand	02/26/08	Primary	<400	<400	920	6,600	220	110,000	17,000	31,000	<200	<400	<400	<800	<400
	B-Sand	03/25/08	Primary	<50	72	510	1,300	130	64,000	7,700	9,200	42	<50	<50	<100	<50
	B-Sand	04/22/08	Primary	<2,000	620 J	5,100	24,000	1,200	83,000	94,000	160,000	<1,000	<2,000	<2,000	<4,000	<2,000
	B-Sand	05/20/08	Primary	<400	<400	680	2,400	180 J	66,000	9,500	13,000	<200	<400	<400	<800	<400
	B-Sand	05/20/08	Primary	<100	60 J	480	1,900	120	30,000	8,200	9,000	44 J	<100	<100	<200	<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
	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
	B-Sand	01/30/08	Primary	<40	38 J	310	3,100	110	1,300	450	1,000	43	<40	<40	<80	<40
	B-Sand	02/26/08	Primary	<40	44	250	990	89	<200	<200	300 J	48	<40	<40	<80	<40
	B-Sand	02/26/08	Duplicate	<20	46	240	950	93	190	140	370	44	<20	<20	<40	<20
	B-Sand	03/25/08	Primary	<20	19 J	340	32	110	770	500	560	48	<20	<20	20 J	<20
	B-Sand	04/22/08	Primary	<40	20 J	330	23 J	79	4,000	1,200	2,100	27	<40	<40	<80	<40
	B-Sand	05/20/08	Primary	<20	<20	270	42	87	1,500	1,400	1,200	29	<20	<20	47	<20
	B-Sand	06/18/08	Primary	<10	<10	41	18	54	2,000	1,700	940	26	<10	<10	130	<10
EWB001	B-Sand	05/08/07	Primary	<10	<10	3.6 J	460	<5	<50	<50	<100	<10	<10	<10	<20	<10
	B-Sand	06/18/07	Primary	<2	<2	3.5	660	<1	<10	<10	<20 C	<2	<2	<2	<4	1.5 J
	B-Sand	03/28/08	Primary	<2	<2	13	940	<1	<10	<10	<20	1.5	<2	<2	<4	1.7 J
EWB002	B-Sand	06/21/07	Primary	71	100	530	7,400	150	58,000	13,000	7,600	58	<10	<10	<20	33
	B-Sand	06/21/07	Duplicate	73	100	550	7,500	150	62,000	14,000	8,700 J	59	<10	<10	<20	34
	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
	B-Sand	01/29/08	Primary	<40	37 J	390	3,200	85	370	1,400	420	35 J	<40	<40	<80	14 J
	B-Sand	01/29/08	Duplicate	<40	39 J	420	3,700	94	310	1,600	490	38 J	<40	<40	<80	14 J
	B-Sand	02/26/08	Primary	<20	33	300	170	53	140	330	190 J	33	<20	<20	<40	7.4 J
	B-Sand	03/25/08	Primary	<20	17 J	180	18 J	31	960	420	320	20	<20	<20	<40	<20
	B-Sand	04/22/08	Primary	<20	9 J	140	290	47	1,300	1,500	730	17	<20	<20	18 J	<20
	B-Sand	05/20/08	Primary	<10	<10	71	150	40	600	750	280	18	<10	<10	49	<10
	B-Sand	05/20/08	Duplicate	<5	2.7 J	78	170	44	740	840	340	18	<5	<5	55	<5
	B-Sand	05/20/08	Duplicate	<4	<4	30	44	31	1,100	1,100	520	21	<4	<4	81	<4
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
	B-Sand	06/18/07	Primary	<1	10	0.96 J	18	<0.5	<5	<5	<10	<1	<1	<1	<2	5.3
	B-Sand	03/25/08	Primary	<5	7.2	<5	12	<2.5	<25	<25	<50	<2.5	<5	<5	<10	4.4 J
	B-Sand	06/17/08	Primary	<2	6.9	1.2 J	10	<1	<10	<10	<20	<1	<2	<2	<4	4.4
WCC_06S	B-Sand	05/08/07	Primary	<20	15 J	170	6,100	29	<100	<100	<200	46	<20	<20	<40	11 J
	B-Sand	06/19/07	Primary	<1	5.1	56	1,900	8.6	<5 C	<5	<10 C	14	<1	<1	<2	4
	B-Sand	01/29/08	Primary	<1	<1	<1	21	<0.5	<5	<5	<10	<1	<1	<1	<2	<1
	B-Sand	03/26/08	Primary	<1	<1	1.8	290	<0.5	<5	<5	<10	<0.5	<1	<1	<2	1.1

AVOCET ENVIRONMENTAL, INC.

Table 4
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(Units are µg/l)
Boeing Former C-6 Facility
Los Angeles, California

Well I.D.	Category	Sample Date	Sample Type	Chloromethane	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
AW0076UB	B-Sand	05/09/07	Primary	<2	12,000	--	18	--	300	--	<1	1,500 J	16,000	500	53	<2	25
	B-Sand	06/21/07	Primary	<200	11,000	--	<100	--	<100	--	<100	5,800	15,000	400	48 J	<200	<50
	B-Sand	01/30/08	Primary	<100	11,000	--	14 J	--	<50	--	<50	270 J	15,000	570	28 J	<100	4,000
	B-Sand	02/26/08	Primary	<800	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	<100	2,000	<100	<50	46 J	<50	24 J	<50	<500	4,400	220	<50	<100	11,000
	B-Sand	04/22/08	Primary	<4,000	24,000	<4,000	<2,000	<2,000	<2,000	<1,000	<2,000	<20,000 C	59,000	1,900 J	<2,000	<4,000	60,000
	B-Sand	05/20/08	Primary	<800	3,000	<800	<400	<400	<400	<200	<400	<4,000	7,800	260 J	<400	<800	6,100
	B-Sand	05/20/08	Primary	<200	2,000	<200	<100	<100	<100	<50	<100	<1,000	6,000	220	<100	<200	5,600
AW0077UB	B-Sand	05/10/07	Primary	<200	6,400	--	<100	--	<100	--	<100	32,000	4,500	220	230	<200	120
	B-Sand	06/20/07	Primary	<200	8,600	--	<100	--	<100	--	<100	2,300 B	4,800	280	41 J	<200	320
	B-Sand	01/30/08	Primary	<80	5,300	--	<40	--	<40	--	<40	470	590	260	50	<80	8,600
	B-Sand	02/26/08	Primary	<80	3,300	10 J	<40	<40	<40	<20	<40	<400	190	260	<40	<80	13,000
	B-Sand	02/26/08	Duplicate	<40	3,000	11 J	<20	<20	<20	<10	<20	79 J	190	230	<20	<40	11,000
	B-Sand	03/25/08	Primary	<40	99	14 J	<20	<20	<20	<10	<20	210	530	190	<20	<40	15,000
	B-Sand	04/22/08	Primary	<80	53	<80	<40	<40	<40	<20	<40	360 J	1,100	110	<40	<80	87,000
	B-Sand	05/20/08	Primary	<40	67	<40	<20	12 J	<20	<10	<20	160 J	1,900	120	<20	<40	5,800
	B-Sand	06/18/08	Primary	<20	25	15 J	3.3 J	18	<10	8.4	<10	100	2,300	84	4.8 J	<20	4,600
EWB001	B-Sand	05/08/07	Primary	<20	56	--	<10	--	11	--	<10	<100	3.9 J	4.1 J	560	<20	<5
	B-Sand	06/18/07	Primary	<4	49	--	<2	--	2.8	--	<2	<20	<2	4.2	680	<4	<1
	B-Sand	03/28/08	Primary	<4	19	<4	<2	<2	<2	<1	0.64 J	<20	<2	14	860	<4	<1
EWB002	B-Sand	06/21/07	Primary	<20	5,800	--	8.6 J	--	<10	--	<10	54 B,J	7,300	300	650 M2	<20	16
	B-Sand	06/21/07	Duplicate	<20	6,200	--	8.9 J	--	<10	--	<10	66 B,J	7,800	300	620	<20	19
	B-Sand	12/12/07	Primary	<100	6,100	--	<50	--	<50	--	<50	<500	6,800	300	14 J	<100	5,600
	B-Sand	01/29/08	Primary	<80 L	2,400	--	<40	--	68	--	<40	140 J	2,600	220	<40	<80	6,800
	B-Sand	01/29/08	Duplicate	<80 L	2,800	--	<40	--	70	--	<40	160 J	2,700	240	12 J	<80	7,500
	B-Sand	02/26/08	Primary	<40	160	9 J	<20	<20	<20	<10	<20	<200	1,200	200	<20	<40	9,900
	B-Sand	03/25/08	Primary	<40	12 J	<40	<20	<20	<20	<10	<20	<200	810	120	<20	<40	6,800
	B-Sand	04/22/08	Primary	<40	100	<40	<20	<20	<20	<10	<20	<200	810	91	5.8 J	<40	5,700
	B-Sand	05/20/08	Primary	<20	120	7 J	3 J	15	<10	5.2	<10	<100	1,900	69	2.8 J	<20	3,000
	B-Sand	05/20/08	Duplicate	<10	130	7.6 J	3.3 J	16	<5	5.5	<5	<50	1,900	77	3.4 J	<10	2,900
	B-Sand	05/20/08	Duplicate	<8	14	11	4	20	<4	7.5	<4	16 J	1,700	65	<4	<8	2,500
TMW_07	B-Sand	05/08/07	Primary	<2	1.6	--	<1	--	<1	--	1.3	<10	<1	<1	1,700	<2	<0.5
	B-Sand	06/18/07	Primary	<2	2.6	--	<1	--	<1	--	0.85 J	<10	<1	<1	1,600	<2	<0.5
	B-Sand	03/25/08	Primary	<10	1.6 J	<10	<5	<5	<5	<2.5	<5	<50	<5	<5	1,300	<10	<2.5
	B-Sand	06/17/08	Primary	<4	1.4 J	<4	<2	<2	<2	<1	0.76 J	<20	<2	<2	970	<4	<1
WCC_06S	B-Sand	05/08/07	Primary	<40	2,400	--	5.6 J	--	<20 P-HS	--	<20	<200	1,500	150	1,000	<40	550
	B-Sand	06/19/07	Primary	<2	630	--	1.5	--	<1	--	1.6	<10 C	390	58	590	<2	210
	B-Sand	01/29/08	Primary	<2 L, M7	1.2	--	<1	--	<1	--	<1	<10	<1	<1	22	<2	0.46 J
	B-Sand	03/26/08	Primary	<2	4.5	<2	<1	<1	<1	<0.5	2.3	<10	<1	2.9	400	<2	0.8

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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
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**
	B-Sand	06/18/07	Primary	<1	<1	**17**	**17**	<0.5	<5	<5	<10	<1	<1	<1	<2	**4**
	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**
	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**
	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**
	B-Sand	06/17/08	Primary	<1	<1	**5.4**	**4.8**	<0.5	<5	<5	<10	<0.5	<1	<1	<2	**2.2**
Former Building 2 Area																
CMW002	C-Sand	03/26/08	Primary	<20	<20	<20	<20	<10	<100	<100	<200	**76**	<20	<20	<40	<20
CMW026	C-Sand	03/26/08	Primary	<4	<4	**4.4**	**5.3**	<2	<20	<20	<40	<2	<4	<4	<8	<4
IRZCMW001	C-Sand	03/26/08	Primary	<4	**13**	**18**	**400**	**16**	<20	<20	<40	<2	<4	<4	<8	**27**
IRZCMW002	C-Sand	03/26/08	Primary	<4	<4	<4	<4	<2	<20	<20	<40	<2	<4	<4	<8	<4
IRZCMW003	C-Sand	03/26/08	Primary	<20	<20	<20	**40**	<10	<100	<100	<200	<10	<20	<20	<40	**8.8 J**
MWC024	C-Sand	03/26/08	Primary	<10	<10	<10	**31**	<5	<50	<50	<100	<5	<10	<10	<20	**220**

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.

Well I.D.	Category	Sample Date	Sample Type	Chloromethane	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
WCC_12S	B-Sand	05/09/07	Primary	<2	**0.97 J**	- -	<1	- -	**1.6**	- -	**0.93 J**	<10	<1	<1	**110**	<2	<0.5
	B-Sand	06/18/07	Primary	<2	**1.7**	- -	<1	- -	<1	- -	<1	<10	<1	<1	**140**	<2	<0.5
	B-Sand	09/21/07	Primary	<2	**1.8**	- -	<1	- -	<1	- -	**1.1**	<10	<1	<1	**120**	<2	<0.5
	B-Sand	03/25/08	Primary	<2	<1	<2	<1	<1	<1	<0.5	<1	<10	<1	<1	**35**	<2	<0.5
	B-Sand	03/25/08	Duplicate	<2	<1	<2	<1	<1	<1	<0.5	**0.32 J**	<10	<1	<1	**35**	<2	<0.5
	B-Sand	06/17/08	Primary	<2 **M2**	<1	<2	<1	<1	<1	<0.5	**0.4 J**	<10	<1	<1	**44**	<2	<0.5
Former Building 2 Area																	
CMW002	C-Sand	03/26/08	Primary	<40	<20	<40	<20	<20	<20	<10	<20	<200	<20	<20	**360**	<40	<10
CMW026	C-Sand	03/26/08	Primary	<8	**44**	<8	<4	<4	<4	<2	<4	<40	**1.8 J**	**4.6**	**4.5**	<8	**1,200**
IRZCMW001	C-Sand	03/26/08	Primary	<8	**35**	**1.7 J**	<4	<4	<4	<2	<4	<40	<4	**19**	**1,100**	<8	<2
IRZCMW002	C-Sand	03/26/08	Primary	<8	**19**	<8	<4	<4	<4	<2	<4	<40	<4	**10**	**1.2 J**	<8	**1,700**
IRZCMW003	C-Sand	03/26/08	Primary	<40	**890**	<40	<20	<20	<20	<10	<20	<200	<20	<20	**6,500**	<40	**360**
MWC024	C-Sand	03/26/08	Primary	<20	**3.9 J**	<20	<10	<10	<10	<5	<10	<100	<10	<10	**2,500**	<20	<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
Los Angeles, California

Well I.D.	Category	Sample Date	Sample Type	Ethane	Ethylene	Methane
Former Building 1/36 Area						
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
	B-Sand	06/17/08	Primary	<1	1.9	1.7
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
	B-Sand	06/17/08	Primary	<1	4.2	2,700
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
	B-Sand	06/17/08	Primary	<1	4.9	8,800
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
	C-Sand	03/25/08	Primary	<1	2.7	630
	C-Sand	04/22/08	Primary	<1	2.9	110
	C-Sand	05/20/08	Primary	<1	3.7	3,600
	C-Sand	06/17/08	Primary	<1	4.3	560
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
	B-Sand	04/22/08	Primary	<1	17	17
	B-Sand	05/20/08	Primary	<1	20	2,600
	B-Sand	06/18/08	Primary	<1	14	11,000
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
	B-Sand	04/22/08	Primary	<1	57	540
	B-Sand	05/20/08	Primary	<1	56	3,000
	B-Sand	06/18/08	Primary	<1	42	4,200

AVOCET ENVIRONMENTAL, INC.

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

Well I.D.	Category	Sample Date	Sample Type	Ethane	Ethylene	Methane
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**
	B-Sand	04/22/08	Primary	<1	**96**	**8,000**
	B-Sand	05/20/08	Primary	<1	**120**	**10,000**
	B-Sand	06/18/08	Primary	<1	**89**	**13,000**
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**
	B-Sand	04/22/08	Primary	<1	**18**	**9,400**
	B-Sand	05/20/08	Primary	<1	**14**	**12,000**
	B-Sand	06/18/08	Primary	<1	**40**	**14,000**
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**
	B-Sand	06/17/08	Primary	<1	<1	**0.46 J,B**
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**
	B-Sand	06/17/08	Primary	<1	<1	**0.98 J,B**
Former Building 2 Area						
CMW002	C-Sand	03/26/08	Primary	<1	<1	**2**
CMW026	C-Sand	03/26/08	Primary	<1	**6**	**21,000**
IRZCMW001	C-Sand	03/26/08	Primary	<1	<1	**1.3**
IRZCMW002	C-Sand	03/26/08	Primary	<1	**46**	**23,000**
IRZCMW003	C-Sand	03/26/08	Primary	<1	**8.6**	**14,000**
MWC024	C-Sand	03/26/08	Primary	<1	<1	**3,200**

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

B = analyte detected in Method Blank

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
Former Building 1/36 Area				
AW0055UB	B-Sand	05/10/07	Primary	**76**
	B-Sand	06/20/07	Primary	**170**
	B-Sand	03/25/08	Primary	**3.6**
	B-Sand	06/18/08	Primary	**4.1**
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**
	B-Sand	06/17/08	Primary	**2,400**
AW0067UB	B-Sand	05/10/07	Primary	**11**
	B-Sand	06/19/07	Primary	**5.8**
	B-Sand	03/25/08	Primary	**2,200**
	B-Sand	06/17/08	Primary	**1,200**
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**
	C-Sand	04/22/08	Primary	**5.4**
	C-Sand	05/20/08	Primary	**100**
	B-Sand	06/17/08	Primary	**4.1**
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**
	B-Sand	04/22/08	Primary	**440**
	B-Sand	05/20/08	Primary	**400**
	B-Sand	06/18/08	Primary	**430**
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**
	B-Sand	04/22/08	Primary	**440**
	B-Sand	05/20/08	Primary	**470**
	B-Sand	06/18/08	Primary	**450**

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
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**
	B-Sand	04/22/08	Primary	**280**
	B-Sand	05/20/08	Primary	**350**
	B-Sand	06/18/08	Primary	**300**
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**
	B-Sand	04/22/08	Primary	**430**
	B-Sand	05/20/08	Primary	**200**
	B-Sand	06/18/08	Primary	**160**
TMW_07	B-Sand	05/08/07	Primary	**1.5**
	B-Sand	06/18/07	Primary	<1
	B-Sand	03/25/08	Primary	<1
	B-Sand	06/18/08	Primary	**1.6 A-01**
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**
	B-Sand	06/18/08	Primary	**3**
Former Building 2 Area				
CMW002	C-Sand	03/26/08	Primary	**16**
CMW026	C-Sand	03/26/08	Primary	**8.6**
IRZCMW001	C-Sand	03/26/08	Primary	<1
IRZCMW002	C-Sand	03/26/08	Primary	**24**
IRZCMW003	C-Sand	03/26/08	Primary	<1
MWC024	C-Sand	03/26/08	Primary	<1

Notes:
< = not detected at a concentration greater than the laboratory reporting limit indicated
Bold indicates detected concentration
B = analyte detected in Method Blank
A-01 = Sample can not be homogenized

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
Former Building 1/36 Area												
AW0055UB	B-Sand	05/10/07	Primary	84.1	0.975	NR	NR	NR	1	NR	17.2	NR
	B-Sand	06/20/07	Primary	140	2.8	0.68	<0.1	0.85	9.8	0.68	36	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
	B-Sand	06/18/08	Primary	1.1 M	<0.07 M	<0.1 M	<0.1	<0.07 M	0.14 M	<0.07	<0.07 M	<0.07 M
AW0065UB	B-Sand	05/10/07	Primary	426	8.4	NR	NR	NR	1	NR	67.6	NR
	B-Sand	05/10/07	Duplicate	460	8.63	NR	NR	NR	1	NR	68.1	NR
	B-Sand	06/21/07	Primary	340	5.8	0.21	<0.1	2.3	71	0.38	54	1.4
AW0066UB	B-Sand	05/10/07	Primary	483	13.6	NR	NR	NR	1	NR	72.9	NR
	B-Sand	06/20/07	Primary	480	22	0.44	<0.1	1.2	15	1.2	61	2
	B-Sand	03/25/08	Primary	440	1,900	680	1.5	270	<10	240	78	190
	B-Sand	06/17/08	Primary	1,400	220	7.6 M	<0.1	12	1,700	31	710	34
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	1,200	740	72	2.3	230	70 J	78	420	130
	B-Sand	06/17/08	Primary	470	130	6.2 M	<0.1	4.2	1,200	11	100	12
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	2	0.45	<0.1	1.2	2	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	<0.07	1.6	<0.07 M
	C-Sand	04/22/08	Primary	5.4 M	<0.07 M	<0.1 M	<0.1	<0.07 M	<0.1 M	<0.07 M	<0.07 M	<0.07 M
	C-Sand	05/20/08	Primary	1.3 M	<0.07	0.15	<0.1	<0.07	0.22 M	<0.07	<0.07	<0.07 M
	C-Sand	06/17/08	Primary	2.1 M	<0.07 M	<0.1 M	<0.1	<0.07 M	0.43 M	<0.07	<0.07 M	<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	0.2	NR	NR	NR	<2	NR	1.12 J	NR
	B-Sand	06/21/07	Primary	140	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	0.45	38	1.7 M
	B-Sand	04/22/08	Primary	430	47	0.69 M	0.44	8.2	<10	4	120	7.8
	B-Sand	05/20/08	Primary	430	31	1.7	0.69	7.7	21	8.6	110	4.2 M
	B-Sand	06/18/08	Primary	870	11	1.1 M	0.71	7.6	28	5.7	220	5.7

AVOCET ENVIRONMENTAL, INC.

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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
AW0076UB	B-Sand	05/09/07	Primary	576	6.97	NR	NR	NR	<1	NR	101	NR
	B-Sand	06/21/07	Primary	450	9.1	0.25	<0.1	2.1	11	0.86	90	2
	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	2.8	90	5.4
	B-Sand	04/22/08	Primary	550	19	0.9 M	0.49	5.2	<10	3.7 M	140	3.8
	B-Sand	05/20/08	Primary	430	16	1	0.5	5.9	20	3.5	86	3.4 M
	B-Sand	06/18/08	Primary	440	29	3.9 M	0.69	11	12	6.1	110	4.5
AW0077UB	B-Sand	05/10/07	Primary	333	36.1	NR	NR	NR	1	NR	74.6	NR
	B-Sand	06/20/07	Primary	770	66	7	0.3	6.5	14	6.9	97	9.7
	B-Sand	02/26/08	Primary	82	1.5	<0.1	<0.1	0.38	<1	0.28	2	0.32
	B-Sand	03/25/08	Primary	190	4.3	0.87 M	<0.1	1.3 M	<10	0.38	21	1.6 M
	B-Sand	04/22/08	Primary	220	19	1.7 M	<0.1	1.4	<10	2.9 M	38	1.6
	B-Sand	05/20/08	Primary	320	15	1.4	0.51	4.1	18	3.9	51	3.3 M
	B-Sand	06/18/08	Primary	370	13	0.59 M	0.61	7	14	3.4	71	5.1
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
EWB002	B-Sand	06/21/07	Primary	210	5.2	0.25	<0.1	0.9	23	0.51	13	0.97
	B-Sand	06/21/07	Duplicate	220	4.8	0.19	<0.1	0.83	18	0.5	13	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	2.5	64	4.2
	B-Sand	04/22/08	Primary	380	89	13	0.8	11	<10	14	140	12
	B-Sand	05/20/08	Primary	230	10	1	0.67	7.2	18	3.8	65	4.2
	B-Sand	06/18/08	Primary	160	2.8	0.18 M	0.66	9.5 M	1.6	1.9	65	4.2 M
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
	B-Sand	06/18/08	Primary	0.11 M	<0.07 M	<0.1 M	<0.1	<0.07 M	0.37 M	<0.07	<0.07 M	0.34 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
	B-Sand	06/18/08	Primary	0.09 M	<0.07 M	<0.1 M	<0.1	<0.07 M	0.31 M	<0.07	<0.07 M	<0.07 M

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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
Former Building 2 Area												
CMW002	C-Sand	03/26/08	Primary	**0.05 JM**	<0.07	<0.1	<0.1	<0.07	<0.1	<0.07	<0.07	<0.07
CMW026	C-Sand	03/26/08	Primary	**0.06 JM**	<0.07	<0.1	<0.1	<0.07	<0.1	<0.07	<0.07	<0.07
IRZCMW001	C-Sand	03/26/08	Primary	<0.07 **M**	<0.07	<0.1	<0.1	<0.07	<0.1	<0.07	<0.07	<0.07
IRZCMW002	C-Sand	03/26/08	Primary	**0.14 M**	<0.07	<0.1	<0.1	<0.07	<0.1	<0.07	<0.07	<0.07
IRZCMW003	C-Sand	03/26/08	Primary	<0.07 **M**	<0.07	<0.1	<0.1	<0.07	<0.1	<0.07	<0.07	<0.07
MWC024	C-Sand	03/26/08	Primary	<0.07 **M**	<0.07	<0.1	<0.1	<0.07	<0.1	<0.07	<0.07	<0.07

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.

AVOCET ENVIRONMENTAL, INC.

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

Well I.D.	Category	Sample Date	Sample Type	Alkalinity	Chloride	Nitrate-NO3	Nitrite-NO2	Sulfate	Total Dissolved Solids
Former Building 1/36 Area									
AW0055UB	B-Sand	05/10/07	Primary	650	580	<0.5	<10 RL1	1.8 B	
	B-Sand	06/20/07	Primary	560	670	<2.5 RL1	<2.5 RL1	2.5 B,RL1,J	
	B-Sand	03/25/08	Primary	570	670	<0.5	<0.5	28	1,900
	B-Sand	06/18/08	Primary	610	660	<0.5	<0.5	28	2,300
AW0065UB	B-Sand	05/10/07	Primary	480	720	<0.5	<10 RL1	<0.5	
	B-Sand	05/10/07	Duplicate	460	730	<0.5	<10 RL1	<0.5	
	B-Sand	06/21/07	Primary	650	760	<0.5	<0.5	4.1	
AW0066UB	B-Sand	05/10/07	Primary	500	820	<0.5	<10 RL1	<0.5	
	B-Sand	06/20/07	Primary	560	890	<2.5 RL1	<2.5 RL1	<2.5 RL1	
	B-Sand	03/25/08	Primary	1,600	600	<2.5 RL1	<2.5 RL1	37	
	B-Sand	06/17/08	Primary	<2	620	1.1	<10 RL1	31	
AW0067UB	B-Sand	05/10/07	Primary	270	290	4.4	<10 RL1	28	
	B-Sand	06/19/07	Primary	370	420	1.3	<0.5	40	
	B-Sand	03/25/08	Primary	1,400	500	<2.5 RL1	<2.5 RL1	29	
	B-Sand	06/17/08	Primary	<2	530	<20 C,RL1	<10 RL1	21	
AW0073C	C-Sand	05/10/07	Primary	210	180	<0.5	<10 RL1	24	
	C-Sand	06/20/07	Primary	270	210 MHA	<0.5 M2, R	<0.5 M1	7.4	
	C-Sand	01/29/08	Primary	240	130	0.32 J	<0.5	9.1	500
	C-Sand	02/26/08	Primary	230	140 M-3	0.39 J	<0.5 M1	9.5	
	C-Sand	03/25/08	Primary	250	130	<0.5	<0.5	7.4	
	C-Sand	04/22/08	Primary	240	130	<0.5	<0.5	12	
	C-Sand	05/20/08	Primary	220	110	<0.5	<0.5	6.8	
	C-Sand	06/17/08	Primary	200	130	0.68	<0.5 C	17	
AW0074UB	B-Sand	05/09/07	Primary	270	340	<0.5	<10 RL1	21	
	B-Sand	06/19/07	Primary	270	350	<0.5	<0.5	23	
	B-Sand	01/29/08	Primary	250	380	1.4	<0.5	19	970
AW0075UB	B-Sand	05/09/07	Primary	460	520	<0.5	<10 RL1	11	
	B-Sand	06/21/07	Primary	510	540	<0.5	<0.5	10	
	B-Sand	01/30/08	Primary	450	510	<1 RL1	1.4	4	1,700
	B-Sand	02/26/08	Primary	510	530	<1 RL1	<1 RL1	2.4	
	B-Sand	03/25/08	Primary	480	560	<0.5	<0.5	3.3	
	B-Sand	04/22/08	Primary	730	590	<0.5	<25 RL1	1.1	
	B-Sand	05/20/08	Primary	750	550	<0.5	<10.0 RL1	<0.5	
	B-Sand	06/18/08	Primary	900	620	<0.5	<20.0 RL1	<0.5	
AW0076UB	B-Sand	05/09/07	Primary	620	760	<0.5	<10 RL1	<0.5	
	B-Sand	06/21/07	Primary	760	810	<0.5	<0.5	<0.5	
	B-Sand	01/30/08	Primary	710	820	<1 RL1	3.2	<1 RL1	2,700
	B-Sand	02/26/08	Primary	700	650	<2.5 RL1	<2.5 RL1	<2.5 RL1	
	B-Sand	03/25/08	Primary	800	640	<1 RL1	<1 RL1	0.52 RL1, J	
	B-Sand	04/22/08	Primary	800	610	<0.5	<25 RL1	0.91	
	B-Sand	05/20/08	Primary	820	690	<0.5	<10.0 RL1	0.41 J	
	B-Sand	06/18/08	Primary	1,000	670	<0.5	<20.0 RL1	<0.5	
AW0077UB	B-Sand	05/10/07	Primary	650	640	<2.5 RL1	<2.5 RL1	2.7	
	B-Sand	06/20/07	Primary	870	610	<2.5 RL1	<2.5 RL1	<2.5 RL1	
	B-Sand	01/30/08	Primary	610	500	<1 RL1	<1 RL1	3.2	1,700
	B-Sand	02/26/08	Primary	610	480	<1 RL1	<1 RL1	0.8 RL1, J	
	B-Sand	03/25/08	Primary	620	500	<0.5	<0.5	<0.5	
	B-Sand	04/22/08	Primary	700	520	<0.5	<50 RL1	0.96	
	B-Sand	05/20/08	Primary	740	540	<0.5	<10.0 RL1	0.66	
	B-Sand	06/18/08	Primary	900	530	<0.5	<10.0 RL1	<0.5	
EWB001	B-Sand	05/08/07	Primary	210	370	7.8	<10 RL1	21	
	B-Sand	06/18/07	Primary	190	420	1.2	<0.5	27	
EWB002	B-Sand	06/21/07	Primary	450	530	3.4	<0.5	18	
	B-Sand	06/21/07	Duplicate	460	530	3.4	<0.5	18	
	B-Sand	12/12/07	Primary	550	650	<0.5	1.4	0.35 J	
	B-Sand	01/29/08	Primary	550	490	<1 RL1	<1 RL1	0.48 RL1, J	1,700
	B-Sand	02/26/08	Primary	540	500	<1 RL1	<1 RL1	<1 RL1	
	B-Sand	03/25/08	Primary	600	490	<0.5	<0.5	0.58	
	B-Sand	04/22/08	Primary	860	480	<0.5	<25 RL1	1.5	
	B-Sand	05/20/08	Primary	840	520	<0.5	<10.0 RL1	0.61	
	B-Sand	06/18/08	Primary	940	520	<0.5	<20.0 RL1	0.61	
TMW_07	B-Sand	05/08/07	Primary	310	230	34	<10 RL1	81	
	B-Sand	06/18/07	Primary	330	250	40	<0.5	110	
	B-Sand	03/25/08	Primary	350	240 MHA	42.0	<0.5	100	950
	B-Sand	06/17/08	Primary	350	240	47.0	<0.5 C	120	930

AVOCET ENVIRONMENTAL, INC.

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

Well I.D.	Category	Sample Date	Sample Type	Alkalinity	Chloride	Nitrate-NO3	Nitrite-NO2	Sulfate	Total Dissolved Solids
WCC_06S	B-Sand	05/08/07	Primary	**340**	**590**	**9.7**	<10 **RL1**	**21**	
	B-Sand	06/19/07	Primary	**140**	**920**	**7.1**	<0.5	**43**	
	B-Sand	01/29/08	Primary	**40**	**8.3**	**0.59**	<0.5	**4.4**	**130**
WCC_12S	B-Sand	05/09/07	Primary	**180**	**180**	**22**	<10 **RL1**	**480**	
	B-Sand	06/18/07	Primary	**180**	**380**	**28**	<0.5	**440**	
	B-Sand	09/21/07	Primary	**170**	**340**	**22**	<0.5	**310**	
	B-Sand	03/25/08	Primary	**180**	**220**	**19**	<0.5	**410**	**1,200**
	B-Sand	06/17/08	Primary	**190**	**250**	**20**	<0.5 **C**	**440**	**1,200**
Former Building 2 Area									
CMW002	C-Sand	03/26/08	Primary	**190**	**110**	**<0.5**	**<0.5**	**90**	**610**
CMW026	C-Sand	03/26/08	Primary	**280**	**160**	**<0.5**	**<0.5**	**20**	
IRZCMW001	C-Sand	03/26/08	Primary	**180**	**210**	**11**	**<0.5**	**38**	**740**
IRZCMW002	C-Sand	03/26/08	Primary	**780**	**190**	**<0.5**	**<0.5**	**2.3**	
IRZCMW003	C-Sand	03/26/08	Primary	**190**	**110**	**4.3**	**<0.5**	**89**	
MWC024	C-Sand	03/26/08	Primary	**210**	**300**	**23**	**1.4**	**36**	

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
C = Calibration Verification recovery was above the method control limit for analyte; analyte not detected, data not impacted

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Table 9
Summary of Dehalococcoides Bacteria and Functional Gene Analytical Results
Boeing Former C-6 Facility
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
	B-Sand	06/18/08	Primary	2.31E+08 ± 1.14E+07	2.21E+08 ± 2.02E+07	3.41E+06 ± 4.00E+05	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
	B-Sand	06/17/08	Primary	9.71E+06 ± 1.42E+06	2.25E+06 ± 2.64E+05	1.37E+06 ± 3.03E+04	ND
AW0067UB	B-Sand	05/10/07	Primary	ND	ND	ND	ND
	B-Sand	06/19/07	Primary	ND	ND	ND	ND
	B-Sand	06/17/08	Primary	1.35E+07 ± 1.93E+06	1.32E+06 ± 2.43E+05	1.60E+06 ± 1.05E+05	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
	C-Sand	05/20/08	Primary	2.52E+08 ± 1.52E+07	7.65E+07 ± 1.63E+06	3.2E+07 ± 5.76E+06	ND
	C-Sand	06/17/08	Primary	3.01E+08 ± 4.53E+07	6.46E+07 ± 3.42E+06	4.98E+07 ± 6.08E+04	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
	B-Sand	05/20/08	Primary	6.33E+08 ± 9.42E+06	2.5872E+08 ± 2.01E+07	8.0E+07 ± 8.32E+06	ND
	B-Sand	06/18/08	Primary	1.47E+09 ± 1.97E+08	8.86E+08 ± 7.39E+07	2.14E+08 ± 3.11E+07	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
	B-Sand	05/20/08	Primary	2.61E+08 ± 1.10E+07	7.6572E+07 ± 2.92E+06	3.4E+07 ± 5.16E+06	ND
	B-Sand	06/18/08	Primary	6.65E+08 ± 4.61E+07	4.87E+08 ± 3.59E+07	3.41E+07 ± 5.33E+06	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
	B-Sand	05/20/08	Primary	2.73E+09 ± 1.81E+08	3.9096E+08 ± 3.88E+07	4.7E+08 ± 7.21E+07	ND
	B-Sand	06/18/08	Primary	1.96E+09 ± 1.31E+08	5.59E+08 ± 7.11E+07	2.26E+08 ± 3.82E+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
	B-Sand	05/20/08	Primary	2.77E+08 ± 4.65E+07	1.6010E+08 ± 8.96E+06	1.5E+07 ± 1.91E+06	ND
	B-Sand	06/18/08	Primary	7.71E+08 ± 8.47E+07	6.58E+08 ± 3.01E+07	1.54E+07 ± 2.05E+06	1.51E+06 ± 2.45E+05
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
	B-Sand	06/17/08	Primary	ND	ND	6.46E+01 ± 4.14E+01	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
	B-Sand	06/17/08	Primary	ND	ND	ND	ND
Former Building 2 Area							
CMW002	C-Sand	3/26/2008	Primary	3.47E+04 ± 6.52E+03	1.76E+04 ± 1.94E+03	ND	ND
CMW026	C-Sand	3/26/2008	Primary	2.06E+07 ± 1.92E+06	2.83E+06 ± 7.10E+05	ND	ND
IRZCMW001	C-Sand	3/26/2008	Primary	4.52E+05 ± 8.46E+04	5.62E+02 ± 6.92E+02 J	ND	ND
IRZCMW002	C-Sand	3/26/2008	Primary	2.09E+07 ± 2.07E+06	2.06E+07 ± 1.80E+06	ND	ND
IRZCMW003	C-Sand	3/26/2008	Primary	2.88E+06 ± 9.81E+04	2.64E+06 ± 4.91E+05	ND	ND
MWC024	C-Sand	3/26/2008	Primary	2.95E+03 ± 3.15E+02 J	4.16E+02 ± 4.47E+02 J	ND	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 - Former Building 1/36 Area
Second Quarter 2008
Boeing Former C-6 Facility
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)
04/01/08	145	681	0
04/04/08	464	2,141	0
04/07/08	551	2,447	0
04/08/08	638	1,478	0
04/09/08	870	1,527	0
04/10/08	508	1,790	0
04/17/08	29	310	0
04/18/08	261	1,917	0
04/24/08	174	658	0
04/29/08	87	424	0
04/30/08	174	560	0
05/07/08	406	1,674	0
05/08/08	348	1,477	0
05/27/08	145	488	0
05/28/08	319	2,163	0
05/29/08	116	619	0
05/30/08	232	989	0
06/03/08	435	1,785	0
06/04/08	348	1,438	0
06/06/08	522	2,160	0
06/10/08	435	1,889	0
06/12/08	493	2,095	0
06/13/08	319	1,237	0
06/16/08	319	1,351	0
06/19/08	348	1,573	0
Totals	**8,686**	**34,871**	**0**

Notes:
lb = pounds
bgs = below ground surface
(1) Well AW0066UB is screened from 69.5 feet bgs to 89.5 feet bgs, while well AW0067UB is screened from 70 feet bgs to 90 feet bgs.

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Table 11
Amendment Injection Summary - C-Sand Bioremedation Slug Injections
Boeing Former C-6 Facility, Former Building 2, Vault 4
Los Angeles, California

Amendment Well ID	Total Amendment Quantities			
	Electron Donor (60% Sodium Lactate) (lbs)	**Electron Donor (3% Lactate Solution)** (gallons)	**Anoxic Water** (gallons)	**Bioaugmentation Culture** (liters)
IRZC0001	3,468	6,126	280	40
IRZC0003	129	156	0	0
IRZC0004	3,547	5,595	170	0
IRZC0005	156	188	0	0
IRZC0006	103	125	0	0
IRZC0007	2,054	3,128	283	20
IRZC0008	72	87	0	0
IRZC0009	2,103	3,254	280	20
IRZC0010	1,699	2,612	86	0
IRZC0011	392	597	0	0
IRZC0012	135	163	0	0
IRZC0013	1,650	2,792	80	0
IRZC0014	2,115	3,021	687	80
IRZC0015	1,903	2,807	85	0
IRZC0016	2,170	2,974	283	40
IRZC0017	2,976	5,395	280	40
IRZC0018	2,047	3,002	276	40
IRZC0019	90	109	0	0
IRZC0020	2,138	3,259	286	40
Totals	**28,946**	**45,390**	**3,076**	**320**

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FIGURES

Figures

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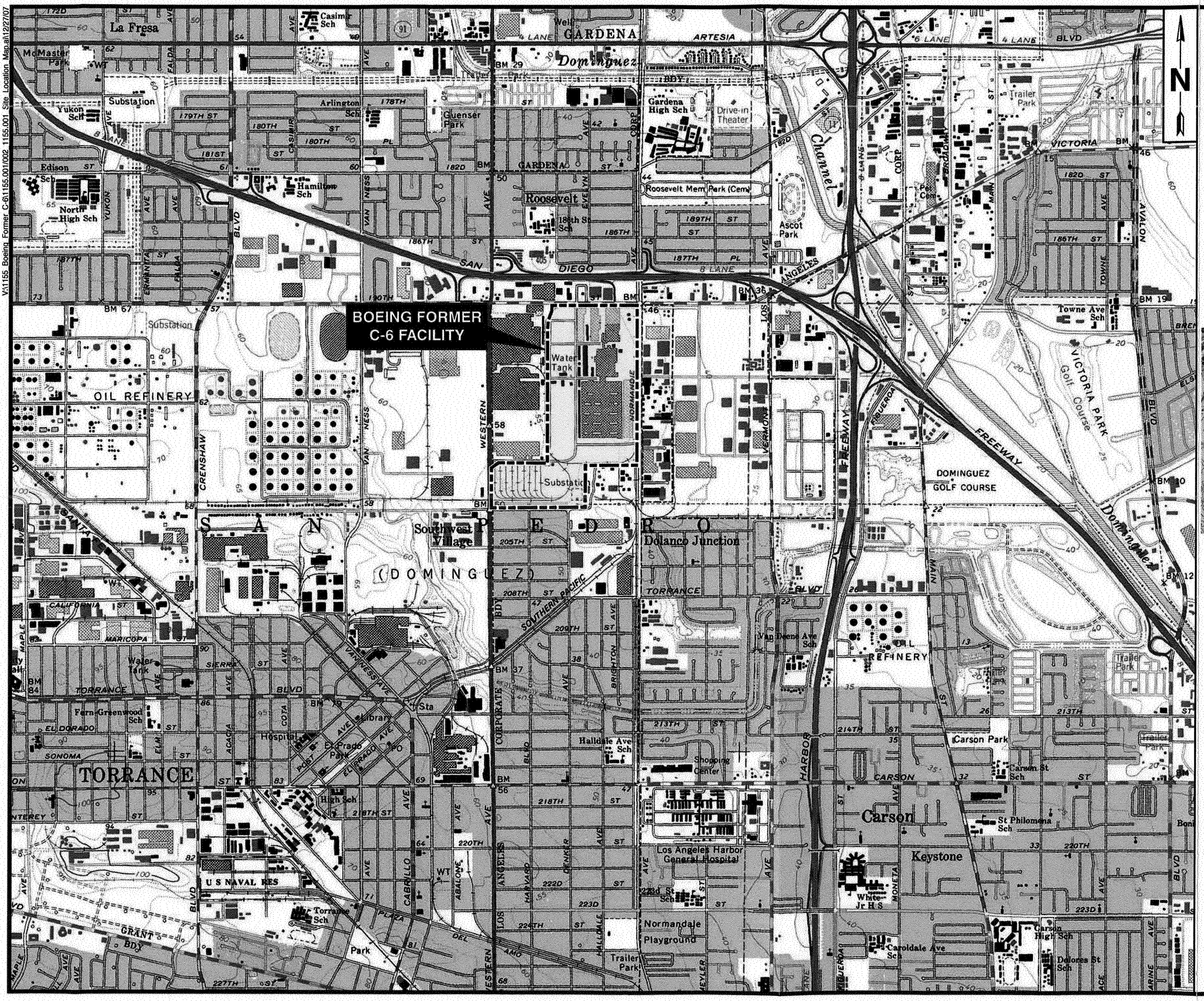
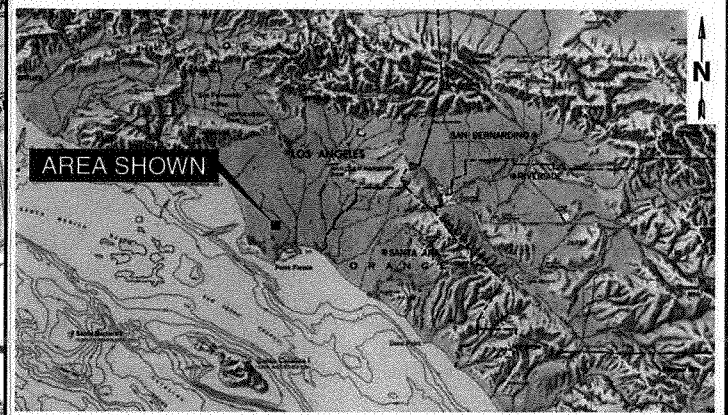
V:\1155_Boeing_Former_C-6\1155.001/002_1155.001_Site_Location_Map.ai\12/27/07





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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BOE-C6-0188650

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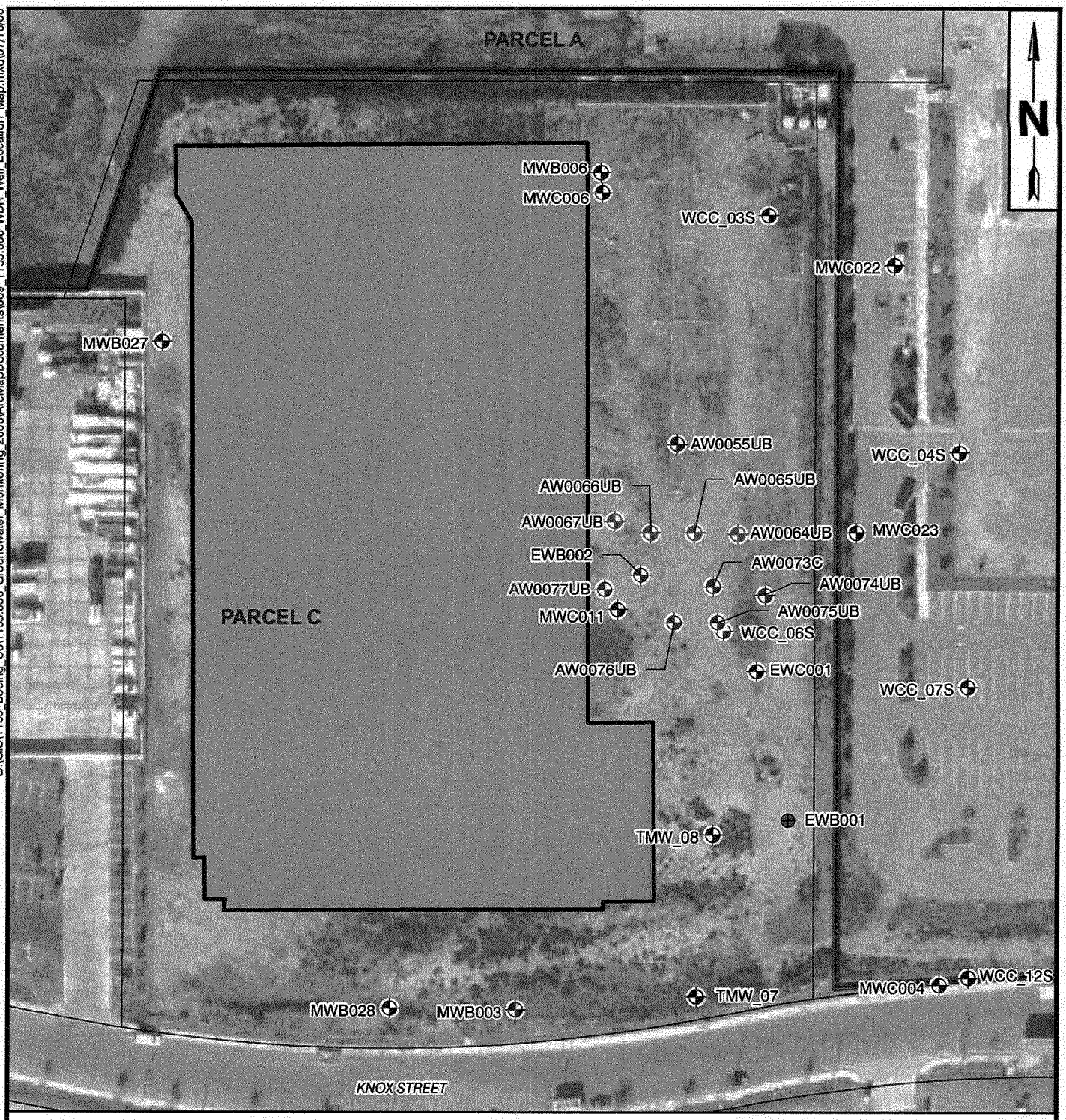


LEGEND

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

0 100 200

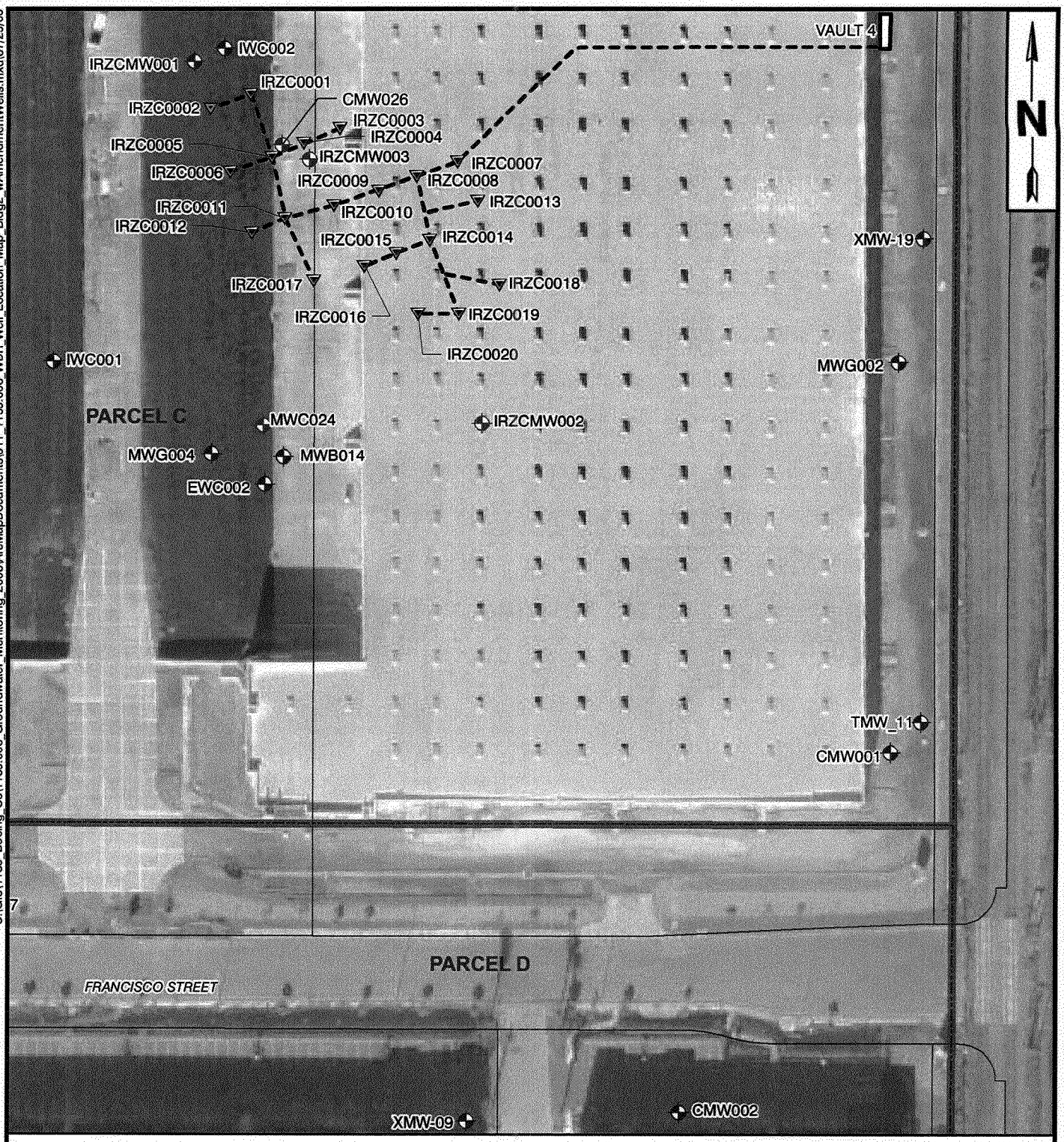
SCALE

FIGURE 2

WDR WELL LOCATION MAP
FORMER BUILDING 1/36 AREA

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

AVOCET ENVIRONMENTAL, INC.



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LEGEND

- WDR Amendment Point
- Non-WDR Amendment Point
- Group B WDR Monitoring Well
- Group C WDR Monitoring Well
- Group D WDR Monitoring Well
- Non-WDR Groundwater Monitoring Well
- Amendment Well Piping System

0 100 200

SCALE

FIGURE 3

WDR WELL LOCATION MAP
FORMER BUILDING 2 AREA

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

AVOCET ENVIRONMENTAL, INC.

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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 4

B-SAND GROUNDWATER ELEVATIONS MARCH 24, 2008

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

AVOCET ENVIRONMENTAL, INC.

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0 300 600

SCALE

LEGEND

- C-Sand IRZ Bioremediation Well
- C-Sand Monitoring Well
- C-Sand Observation Well
- -8.2 Approximate Water Level Elevation, Feet Meal Sea Level, * Indicates Not Used in Contouring
- -7.1 Approximate Water Level Elevation, Feet Mean Sea Level, Dashed where Inferred
- Parcel Boundary

FIGURE 5

C-SAND GROUNDWATER ELEVATIONS MARCH 24, 2008

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

AVOCET ENVIRONMENTAL, INC.

APPENDIX A

BOE-C6-0188655

Appendix A

Groundwater Sampling Data Sheets

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Groundwater Monitoring Well Gauging Sheet

Project Name: Boeing C-6 March 2008 Gauging Event
Project Manager: Michael Rendina
Project No.: 1155.006
Location: Torrance, CA
Field Personnel: BCB, CBJ, DML, EMC
Date: 3/24/2008
Field Conditions: Sunny and cool.

Well ID	Previous Measurement Date	Previous Depth to Water	Previous Total Depth	Date	Time	Well Diameter (in)	PID (ppm)	Measurement Point	Depth to Water	Depth to Water #2	Total Depth	Field Personnel	Comments/Well Conditon
MWC007	Sep-07	58.49	119	3/24/08	0855	4	0.0	TOC-N	58.04	58.04	118.0	BCB	
WCC_05S	Sep-07	59.91	90	3/24/08	1024	4	0.0	TOC-N	59.47	59.47	91.3	BCB	
MWB020	Sep-07	57.3	120.5	3/24/08	1251	4	0.0	TOC-N	56.88	56.88	89.9	BCB	
WCC_09S	Sep-07	62.25	90	3/24/08	1322	4	0.0	TOC-N	61.92	61.92	94.4	BCB	
MWC022	Sep-07	58.65	120	3/24/08	1359		0.0	TOC-N	58.17	58.17	116.2	BCB	
WCC_12S	Sep-07	58.6	90.29	3/24/08	1045	4	0.0	TOC-N	58.18	58.18	91.8	BCB	Replace one 5/8 x 1 1/2" bolt.
WCC_07S	Sep-07	59.4	90	3/24/08	1111	4	0.0	TOC-N	59.27	59.27	89.0	BCB	
MWC004	Sep-07	59.25	118	3/24/08	1419	4	0.0	TOC-N	58.82	58.82	114.3	BCB	
WCC_04S	Sep-07	59.37	89.67	3/24/08	1139	2	0.0	TOC-N	58.85	58.85	90.0	BCB	
MWB007	Sep-07	58.33	92	3/24/08	1515	4	11.1	TOC-N	57.75	57.75	89.9	BCB	
MWC023	Sep-07	58.88	120	3/24/08	1459	4	0.0	TOC-N	58.15	58.15	115.1	BCB	
MWB013	Sep-07	62.63	86.5	3/24/08	0935	4	0.0	TOC-N	62.21	62.21	85.1	BCB	Needs two bolts - small diameter with 3/4" hex heads.
TMW_14	Sep-07	67.3	85	3/24/08	1001	2	0.0	TOC-N	66.87	66.87	85.1	BCB	Replace existing bolts with shorter 5/8 by 1 1/2".
TMW_15	Sep-07	65.48	87	3/24/08	1212	2	0.0	TOC-N	64.95	64.95	86.4	BCB	Lock tap on aboveground monument broken off. Unable to secure monument.
BL-03	Mar-07	67.17	79	3/24/08	1437	2	26.6	TOC-N	66.37	66.37	80.2	BCB	BL-03Top of casing repaired with 2" couple and PVC cement; well cap does not fit properly
DAC-P1	Mar-07	64.31	90	3/24/08	1532	4	58.9	TOC-N	61.81	61.81	90.5	BCB	
MWC006	Mar-07	61.35	117.5	3/24/08	1045	2	0.0	TOC-N	60.55	60.55	115.35	CBJ	
MWC011	Mar-07	61.37	117	3/24/08	1130	2	0.0	TOC-N	60.81	60.81	112.52	CBJ	Replaced both long, bent bolts with shorter 5/8 x 1 1/2" bolts.
MWB027	Sep-07	64.13	91.5	3/24/08	1200	2	4.2	TOC-N	63.66	63.66	88.23	CBJ	Replaced one bolt 5/8 x 1 1/2".
MWB028	Mar-07	63.78	93	3/24/08	1220	2	8.3	TOC-N	63.82	63.82	90.11	CBJ	
EWB001	Dec-07	56.5	90	3/24/08	1245	2	--	TOC-N	59.25	59.25	--	CBJ	Estimated - Permanent pump.
TMW_07	Jun-07	61.24	84	3/24/08	1255	2	0.0	TOC-N	60.88	60.88	82.61	CBJ	

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AVOCET ENVIRONMENTAL, INC.

Groundwater Monitoring Well Gauging Sheet

Project Name: Boeing C-6 March 2008 Gauging Event **Project Manager:** Michael Rendina **Project No.:** 1155.006

Location: Torrance, CA **Field Personnel:** BCB, CBJ, DML, EMC **Date:** 3/24/2008

Field Conditions: Sunny and cool.

Well ID	Previous Measurement Date	Previous Depth to Water	Previous Total Depth	Date	Time	Well Diameter (in)	PID (ppm)	Measurement Point	Depth to Water	Depth to Water #2	Total Depth	Field Personnel	Comments/Well Conditon
TMW_08	Mar-07	61.48	81	3/24/08	1310	2	0.8	TOC-N	60.84	60.84	80.08	CBJ	
AW0074UB	Feb-08	59.65	95	3/24/08	1324	2	3.0	TOC-N	59.44	59.44	87.8	CBJ	
WCC_03S	Sep-07	59.87	90	3/24/08	1340	4	0.0	TOC-N	59.32	59.32	88.09	CBJ	Replaced one bolt 5/8 x 1 1/2".
AW0075UB	Feb-08	60.16	95	3/24/08	1353	2	8.0	TOC-N	59.99	59.99	85.34	CBJ	
WCC_06S	Feb-08	59.62	90	3/24/08	1402	4	0.4	TOC-N	59.46	59.46	88.25	CBJ	Replaced two bolts 5/8 x 1 1/2"
AW0064UB	Feb-08	60.15	92	3/24/08	1412	4	0.0	TOC-N	58.96	58.96	86.29	CBJ	
MWB003	Mar-07	63.89	92	3/24/08	1425	2	74.6	TOC-N	63.81	63.81	90	CBJ	
AW0067UB	Jun-07	61.2	93	3/24/08	1443	2	0.0	TOC-N	59.81	59.81	89.52	CBJ	
AW0073C	Feb-08	60.32	120	3/24/08	1457	2	1.2	TOC-N	60.12	60.12	117.01	CBJ	
EWC001	Dec-07	60.1	125	3/24/08	1507	4	85.5	TOC-N	59.45	59.45	112.3	CBJ	Need to chase threads and install short 5/8 x 1 1/2" bolts.
AW0055UB	Jun-07	60.71	92	3/24/08	1521	2	5.9	TOC-N	60.18	60.18	88.45	CBJ	
AW0077UB	Feb-08	60.75	86	3/24/08	1533	2	2.7	TOC-N	60.61	60.61	74.86	CBJ	
EWB002	Feb-08	60.53	89.56	3/24/08	1543	4	1.7	TOC-N	60.4	60.4	89.8	BCB	Need to chase threads and install short 5/8 x 1 1/2" bolts.
AW0076UB	Feb-08	60.6	92	3/24/08	1557	2	0.0	TOC-N	61.54	61.54	87.35	BCB	Missing all 3 bolts - removed by remediation contractor.
AW0065UB	Feb-08	60.39	92	3/24/08	1602	2	21.7	TOC-N	59.39	59.39	88.27	BCB	
AW0066UB	Jun-07	61.2	91	3/24/08	1608	2	28.2	TOC-N	59.79	59.79	89.37	BCB	
MWB006	Mar-07	60.98	93	3/24/08	1622	4	23.8	TOC-N	60.41	60.41	91.51	BCB	
MWG003	Mar-07	62.04	185	3/24/08	0853	2	0.0	TOC-N	61.4	61.4	--	DML	Replace 2" diameter expansion well cap.
MWG004	Mar-07	61.29	185	3/24/08	0920	2	0.0	TOC-N	60.62	60.62	--	DML	Well box broken with 2 bent bolts stuck in cover. Requires well box replacement (see
TMW_06	Mar-07	59	81	3/24/08	0940	2	0.0	TOC-N	59.14	59.14	78.71	DML	Replace 2" expansion cap.
MWB014	Mar-07	61.01	86.5	3/24/08	0959	4	0.3	TOC-N	59.28	59.28	84.51	DML	Replaced 3/4" bolts.
CMW002	Sep-07	61.53	124	3/24/08	~~820~~	4	~~0.9~~	TOC-N	60.95	60.95	124.00	DML	
MWB012	Mar-07	60.47	90.5	3/24/08	1022	4	1.7	TOC-N	59.75	59.75	84.21	DML	Good. Replaced 3/4" bolts.

BOE-C6-0188658

AVOCET ENVIRONMENTAL, INC.

Groundwater Monitoring Well Gauging Sheet

Project Name: Boeing C-6 March 2008 Gauging Event **Project Manager:** Michael Rendina **Project No.:** 1155.006

Location: Torrance, CA **Field Personnel:** BCB, CBJ, DML, EMC **Date:** 3/24/2008

Field Conditions: Sunny and cool.

Well ID	Previous Measurement Date	Previous Depth to Water	Previous Total Depth	Date	Time	Well Diameter (in)	PID (ppm)	Measurement Point	Depth to Water	Depth to Water #2	Total Depth	Field Personnel	Comments/Well Conditon
CMW026	Sep-07	59.73	117	3/24/08	1050	4	0.0	TOC-N	59.19	59.19	118.30	DML	Replaced one bolt 5/8 x 1 1/2".
TMW_04	Mar-07	59.29	80	3/24/08	1121	2	0.3	TOC-N	58.56	58.56	77.13	DML	
MWC016	Mar-07	61.13	131	3/24/08	1144	4	0.0	TOC-N	60.45	60.45	128.08	DML	Good, needs one 3/4" bolt.
MWC015	Mar-07	59.8	128	3/24/08	1215	4	0.0	TOC-N	59.83	59.83	121.25	DML	
IRZB0081	Jun-07	61.82	89.5	3/24/08	1300	4	1.5	TOC-N	60.29	60.29	90.30	DML	Replaced one bolt 5/8 x 1 1/2".
MW0005	Mar-07	60.05	85	3/24/08	1404	4	21.0	TOC-N	59.27	59.27	87.78	DML	
IRZMW005	Jun-07	60.82	90	3/24/08	1320	<3/4	0.0	TOC-N	60.43	60.43	86.85	DML	Replaced one bolt 5/8 x 1 1/2".
IRZB0095	Jun-07	61.7	90	3/24/08	1424	3/4	0.0	TOC-N	60.38	60.38	85.60	DML	Chased threads and replaced two bolts 5/8 x 1 1/2".
IRZCMW001	Sep-07	59.94	117	3/24/08	1458	4	0.0	TOC-N	59.31	59.31	116.93	DML	One broken bolt stuck in well box housing. Well box skirt is deformed impacting bolts.
IWC001	Sep-07	62.05	125	3/24/08	1553	4	0.9	TOC-N	61.41	61.41	114.33	DML	Wellbox destroyed, well exposed
IWC002	Sep-07	59.73	125	3/24/08	1519	4	0.5	TOC-N	59.13	59.13	115.75	DML	Chased threads. Replaced 2 new bolts (5/8 x 1 3/4").
MWC024	Sep-07	60.02	125	3/24/08	1605	4	7.1	TOC-N	59.38	59.38	121.53	DML	
IRZMW004	Jun-07	61.3	90	3/24/08	1638	4	30.1	TOC-N	60.61	60.61	70.90	DML	Broken well box cover - requires replacement (see photos). Replaced two
EWC002	Sep-07	60.22	125	3/24/08	1650	4	13.8	TOC-N	59.65	59.65	120.20	EMC	
IRZCMW003	Sep-07	59.82	117	3/24/08	1635	4	20.2	TOC-N	59.42	59.42	117.50	EMC	
IRZMW002B	Jun-07	64.66	93	3/24/08	1034	2	2.5	TOC-N	64.2	64.2	91.00	EMC	
IRZMW003B	Jun-07	64.59	90	3/24/08	1025	2	1.2	TOC-N	64.2	64.2	90.00	EMC	
IRZMW001B	Jun-07	64.45	90	3/24/08	1048	2	18.9	TOC-N	64.14	64.14	89.00	EMC	
IRZMW002A	Jun-07	64.97	78	3/24/08	1038	2	30.7	TOC-N	64.14	64.14	77.00	EMC	
IRZMW001A	Jun-07	64.75	75	3/24/08	1044	2	12.7	TOC-N	64.18	64.18	75.00	EMC	
IRZMW003A	Jun-07	64.72	71	3/24/08	1030	2	103.0	TOC-N	64.18	64.18	70.00	EMC	
IRZCMW002	Sep-07	62.15	121	3/24/08	0906	4	1.1	TOC-N	63.53	63.53	121.00	EMC	Threads require chasing. One 3/4" bolt missing.
XMW-19	Sep-07	56.91	80	3/25/08	1045	4	0.0	TOC-N	56.53	56.53	77.14	DML	Installed key lock #2002 key.

BOE-C6-0188659

AVOCET ENVIRONMENTAL, INC.

Groundwater Monitoring Well Gauging Sheet

Project Name: Boeing C-6 March 2008 Gauging Event
Project Manager: Michael Rendina
Project No.: 1155.006
Location: Torrance, CA
Field Personnel: BCB, CBJ, DML, EMC
Date: 3/24/2008
Field Conditions: Sunny and cool.

Well ID	Previous Measurement Date	Previous Depth to Water	Previous Total Depth	Date	Time	Well Diameter (in)	PID (ppm)	Measurement Point	Depth to Water	Depth to Water #2	Total Depth	Field Personnel	Comments/Well Conditon
TMW_10	Sep-07	57.6	80	3/24/08	0940	2	1.9	TOC-N	57.14	57.14	78.00	EMC	Needs both threads chased. Installed one new bolt 5/8 x 1 1/2"
TMW_11	Sep-07	57.92	78	3/24/08	1000	2	0.6	TOC-N	57.51	57.51	78.00	EMC	Chase threads. Replace two bolts 5/8 x 1 1/2".
MWC021	Sep-07	62.5	126	3/24/08	0936	4	0.7	TOC-N	61.92	61.92	126.00	EMC	Well cover broken requires replacement. Old style with 3/4" hex head bolts. (Morrison
XMW-09	Sep-07	61.4	81	3/24/08	0825	4	0.8	TOC-N	60.96	60.96	81.00	EMC	Needs two short bolts (5/8x11/2")
MWG001	Sep-07	63.38	190	3/24/08	0930	2	0.9	TOC-N	62.62	62.62	190.00	EMC	
MWG002	Sep-07	64.33	195	3/24/08	0945	2	1.1	TOC-N	63.68	63.68	192.00	EMC	
CMW002	Sep-07	61.53	124	3/24/08	0820	4	0.9	TOC-N	60.95	60.95	124.00	EMC	
MWC009	Sep-07	61.77	125	3/24/08	0925	4	1.7	TOC-N	61.34	61.34	124.00	EMC	
MWB019	Sep-07	63.58	90.5	3/24/08	0842	4	2.5	TOC-N	63.15	63.15	90.50	EMC	Needs one bolt - small diameter with 3/4 hex head.
MWC017	Sep-07	63.96	128	3/24/08	0835	4	0.5	TOC-N	63.36	63.36	124.90	EMC	Chased threads. Replaced 1 new bolt (5/8 x 1 3/4").
CMW001	Sep-07	63.1	124	3/24/08	0950	4	1.2	TOC-N	62.51	62.51	124.00	EMC	

BOE-C6-0188660

AVOCET ENVIRONMENTAL, INC.

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GROUNDWATER SAMPLING DATA SHEET

Project Name:	Boeing C-6 GWM - B2 WDR	Date:	3/26/08
Project No.:	1155.003	Prepared by:	GMC
Well Identification:	CMW002	Weather:	cloudy 60's
Measurement Point Description:	TOC	Pump Intake:	111.5
		Screen:	99 - 124

A	B	C	D = C - B	E = B - A	G = D x F	H = 25 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.)
MA	60.87	124		NA	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
1000	CPMW-4	0	200mL	60.99	21.22	0.847	4.38	7.37	134	16.3	clear
1003		600		60.92	21.52	0.927	1.90	7.29	32	4.9	clear
1006		1200		60.93	21.58	0.952	1.17	7.31	16	1.7	clear
1009		1800		60.92	21.59	0.960	0.78	7.33	-42	0.9	clear
1012		2400		60.92	21.70	0.960	0.68	7.34	-54	0.8	clear
1015		3000		60.91	21.72	0.960	0.67	7.35	-57	0.9	clear
1018		3600		60.92	21.71	0.961	0.68	7.34	-58	0.8	clear
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
1000	1018	200	3600	N/A	NA	60.92	1026	CMW002_WG20080326_01

Notes: (units) [stabilization criteria]

Field Parameters		
Ferrous Iron (mg/L)	PID (ppm):	Chemetrics D.O.(mg/L)
0.01	0 ppm	

DUP:

DRUM NO:

BOE-C6-0188661

AVOCET ENVIRONMENTAL, INC.

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GROUNDWATER SAMPLING DATA SHEET

Project Name:	Boeing C-6 GWM - B2 WDR	**Date:** 3/26/08	
Project No.:	1155.003	**Prepared by:** EMC	
Well Identification:	CMW026	**Weather:** cloudy 60's	
Measurement Point Description:		**Pump Intake:** 104.5	**Screen:** 92 - 117

A	B	C	D = C - B	E = B - A	G = D x F	H = 25 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	59.25	117		NA	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: replace box

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
0738	CPM-4	0	200mL	59.25	20.36	0.553	6.45	6.81	-124	24.0	clear
0733		600		59.32	21.08	1.118	1.47	6.75	-118	11.9	clear
0736		1200		59.36	21.14	1.226	0.90	6.78	-110	4.9	clear
0739		1800		59.37	21.25	1.188	0.49	6.86	-102	7.8	clear
0742		2400		59.36	21.26	1.166	0.48	6.87	-99	2.1	clear
0745		3000		59.36	21.27	1.155	0.41	6.87	-98	2.3	clear
0748		3600		59.36	21.28	1.156	0.39	6.88	-97	2.1	clear
0751		4200		59.36	21.28	1.155	0.40	6.87	-98	2.2	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
0730	0751	200	4200	N/A	NA	59.36	0800	CMW026_WG20080326_01

Notes: (units) [stabilization criteria]

Field Parameters		
Ferrous Iron (mg/L)	PID (ppm):	Chemetrics D.O.(mg/L)
1.69	3.1 ppm	

DUP:

DRUM NO:

BOE-C6-0188662

AVOCET ENVIRONMENTAL, INC.

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GROUNDWATER SAMPLING DATA SHEET

Project Name:	Boeing C-6 GWM - B2 WDR	Date:	3/26/08
Project No.:	1155.003	Prepared by:	TMC
Well Identification:	MWC024	Weather:	Cloudy 60's
Measurement Point Description:	TOC	Pump Intake:	Screen: 96 - 121

A	B	C	D = C - B	E = B - A	G = D x F	H = .25 x F	I = .75 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	59.52	121	61.48	NA	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: G/C

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
0920	cpm-4	0	200	59.63	20.67	1.352	7.12	7.37	133	14.1	clear
0923		600		59.62	20.92	1.52	1.92	7.26	132	10.4	clear
0926		1200		59.61	21.41	1.52	1.03	7.23	-16	6.5	clear
0929		1800		59.62	21.45	1.52	0.54	7.22	-133	2.2	clear
0932		2400		59.62	21.48	1.52	0.42	7.22	-133	0.0	clear
0935		3000		59.61	21.49	1.53	0.39	7.22	-134	0.2	clear
0938		3600		59.62	21.48	1.53	0.39	7.22	-133	0.1	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
0920	0938	200	3600	N/A	NA	59.61	0947	MWC024_WG2008 0326_01

Notes: (units) [stabilization criteria]

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

DUP:

DRUM NO:

BOE-C6-0188663

AVOCET ENVIRONMENTAL, INC.

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GROUNDWATER SAMPLING DATA SHEET

Project Name:	Boeing C-6 GWM - B2 WDR	Date:	3/26/08
Project No.:	1155.003	Prepared by:	TMC
Well Identification:	IRZCMW001	Weather:	cloudy 60s
Measurement Point Description:	TOC	Pump Intake:	104.5
		Screen:	92 - 117

A	B	C	D = C - B	E = B - A	G = D x F	H = 25 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	59.45	117	57.55	NA	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: NO BOLTS

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
0840	cpm-4	0	200	59.52	20.23	0.617	6.61	7.28	125	39.7	cloudy
0843		600		59.60	21.29	1.061	5.05	7.18	127	21.3	cloudy
0846		1200		59.61	21.41	1.209	5.13	7.22	127	14.8	clear
0849		1800		59.62	21.47	1.214	5.11	7.24	127	11.3	clear
0852		2400		59.61	21.50	1.216	5.10	7.26	129	7.6	clear
0855		3000		59.61	21.51	1.218	5.09	7.25	128	7.3	clear
0857		3600		59.62	21.50	1.216	5.09	7.26	129	7.5	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
0840	0857	200	3600	N/A	NA	59.62	0907	IRZCMW001_WG20080326_01

Notes: (units) [stabilization criteria]

Field Parameters		
Ferrous Iron (mg/L)	PID (ppm):	Chemetrics D.O.(mg/L)
0.00	0.2 ppm	

DUP:

DRUM NO:

BOE-C6-0188664

AVOCET ENVIRONMENTAL, INC.

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GROUNDWATER SAMPLING DATA SHEET

Project Name:	Boeing C-6 GWM - B2 WDR	**Date:**	3/26/08
Project No.:	1155.003	**Prepared by:**	EMC
Well Identification:	IRZCMW002	**Weather:**	Cloudy 60's
Measurement Point Description:	TOC	**Pump Intake:**	108.5
		Screen:	96 - 121

A	B	C	D = C - B	E = B - A	G = D x F	H = 25 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	63.50	121	57.5	NA	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: replace box

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
0645	CPAr-4	0	200mL/m	63.62	18.97	1.73	6.82	6.78	146	236	cloudy
0648		600		63.71	20.16	1.90	2.27	6.73	129	15.6	clear
0651		1200		63.72	20.46	1.95	1.20	6.75	109	6.3	clear
0654		1800		63.70	20.69	1.97	0.79	6.85	100	4.0	clear
0657		2400		63.71	20.77	1.96	0.43	6.88	98	3.2	clear
0700		3000		63.70	20.80	1.96	0.43	6.87	97	3.1	clear
0703		3600		63.70	20.79	1.95	0.42	6.88	98	3.3	clear

EMC

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
0645	0703	200mL	3600	N/A	NA	63.70	0710	IRZCMW002_WG20080326_01

Notes: (units) [stabilization criteria]

Field Parameters		
Ferrous Iron (mg/L)	PID (ppm):	Chemetrics D.O.(mg/L)
1.87	3.2 ppm	

DUP:

DRUM NO:

BOE-C6-0188665

AVOCET ENVIRONMENTAL, INC.

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GROUNDWATER SAMPLING DATA SHEET

Project Name:	Boeing C-6 GWM - B2 WDR	Date:	3/26/08
Project No.:	1155.003	Prepared by:	GMC
Well Identification:	IRZCMW003	Weather:	Cloudy 60's
Measurement Point Description:	TOC	Pump Intake:	104.5
		Screen:	92 - 117

A	B	C	D = C - B	E = B - A	G = D x F	H = 25 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	59.41	117	57.59	NA	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: Retap Bolts

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
0810	cpm: 4	0	700mL	59.56	20.23	0.661	4.85	7.15	-111	13.3	clear
0813		600		59.59	21.06	0.927	0.75	7.22	-117	4.1	clear
0816		1200		59.58	21.07	0.926	0.70	7.28	-116	4.3	clear
0819		1800		59.58	21.12	0.928	6.45	7.30	-119	1.8	clear
0822		2400		59.58	21.15	0.926	0.39	7.31	-121	1.9	clear
0825		3000		59.58	21.16	0.927	0.38	7.31	-122	1.8	clear
0828		3600		59.59	21.15	0.930	0.37	7.30	-121	1.9	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
0810	0828	200	3600	N/A	NA	0836	0836	IRZCMW003_WG2008 0326_01

Notes: (units) [stabilization criteria]

Field Parameters		
Ferrous Iron (mg/L)	PID (ppm):	Chemetrics D.O.(mg/L)
0.02	1.2 ppm	

DUP:

DRUM NO:

BOE-C6-0188666

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

AVOCET ENVIRONMENTAL, INC.

GROUNDWATER SAMPLING DATA SHEET

Project Name:	BCRE Former C-6 Facility	Date:	4/22/08
Project No.:	1155.006	Prepared by:	BCB
Well Identification:	AW0077UB	Weather:	Clear / Warm
Measurement Point Description:	TOC-N	Pump Intake:	60' Screen:

A	B	C	D = C - B	E = B - A	G = D x F	H = «ScrenLength» x F	I = (top screen-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.)
–	60.57	86.00	25.43	–	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
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
0820	10/5s @ 135psi	–	200	60.57	21.21	2.86	2.55	6.31	-138	57.2	light yellow
0823		600		61.14	21.54	3.40	0.42	6.03	-176	26.8	in color
0826		1200		61.19	21.50	3.35	0.39	6.04	-183	25.9	"
0829		1800		61.23	21.55	2.99	0.39	5.99	-190	13.8	"
0832		2400		61.25	21.56	2.85	0.44	5.95	-195	11.1	"
0835		3000		61.41	21.54	2.79	0.51	5.96	-203	9.74	"
0838		3600		61.45	21.50	2.92	0.50	5.97	-205	7.07	"

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
0820	0838	200	3.6	N/A	NA	61.45	0838	AW0077UB_WG20080422_01

DUP:
DRUM NO:

Notes: (units) [stabilization criteria] Ferrous Iron 0.72 PID 24.7ppm

AVOCET ENVIRONMENTAL, INC.

GROUNDWATER SAMPLING DATA SHEET

Project Name:	BCRE Former C-6 Facility	**Date:**	4/22/08
Project No.:	1155.006	**Prepared by:**	BCB
Well Identification:	EWB002	**Weather:**	Clear/Warm
Measurement Point Description:	TOC-N	**Pump Intake:**	COS
		Screen:	

A	B	C	D = C - B	E = B - A	G = D x F	H = «ScrenLength» x F	I = (top screen-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.)
—	60.31	90.00	29.69	—	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

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
1031	10/5s @ 140psi	—	200	60.31	23.40	2.36	1.74	6.41	-143	42.9	colorless
1034	↓	600	↓	60.47	21.70	3.12	0.25	6.23	-179	37.2	"
1037		1200		60.50	21.67	3.11	0.26	6.24	-200	5.05	"
1040		1800		60.52	21.64	3.12	0.27	6.25	-208	3.27	"
1043		2400		60.52	21.65	3.13	0.28	6.25	-210	1.54	"
1046		3000		60.52	21.66	3.13	0.28	6.25	-213	0.77	"
1049		3600		60.52	21.64	3.14	0.29	6.26	-214	0.32	"

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
1031	1049	200	3.6	N/A	NA	60.52	1049	EWB002_WG20080422_01

Notes: (units) [stabilization criteria]

Ferrous Iron 1.42

PID 4.1 ppm

DUP:

DRUM NO:

BOE-C6-0188670

AVOCET ENVIRONMENTAL, INC.

GROUNDWATER SAMPLING DATA SHEET

Project Name:	BCRE Former C-6 Facility	**Date:**	4/22/08
Project No.:	1155.006	**Prepared by:**	BCB
Well Identification:	AW0073C	**Weather:**	Warm / Clear
Measurement Point Description:	ToC-N	**Pump Intake:**	COS
		Screen:	

A	B	C	D = C - B	E = B - A	G = D x F	H = «ScrenLength» x F	I = (top screen-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.)
–	60.04	117.00	56.96	–	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
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
0936	10.5 s @ 140 psi	–	200	60.04	25.25	2.73	0.98	6.14	-135	22.9	colorless
0939	↓	600	↓	60.19	23.16	1.02	2.97	6.39	-228	17.6	"
0942		1200		60.22	22.78	0.953	1.14	6.82	-227	55.1	cloudy
0945		1800		60.25	22.62	0.964	0.62	6.84	-224	87.0	"
0948		2400		60.21	22.58	0.927	0.38	6.89	-233	51.2	"
0951		3000		60.17	22.58	0.913	0.27	6.90	-240	30.1	colorless
0954		3600		60.17	22.60	0.907	0.22	6.89	-245	75.2	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
0936	0954	200	3.6	N/A	NA	60.17	0954	AW0073C_WG20080422_01

Notes: (units) [stabilization criteria] Ferrous Iron 1.11 PID 2.2 ppm

DUP:
DRUM NO:

BOE-C6-0188671

AVOCET ENVIRONMENTAL, INC.

GROUNDWATER SAMPLING DATA SHEET

Project Name:	BCRE Former C-6 Facility	**Date:**	4/22/08
Project No.:	1155.006	**Prepared by:**	BCB
Well Identification:	AW0075UB	**Weather:**	Clear / Warm
Measurement Point Description:	TOC-N	**Pump Intake:**	COS
		Screen:	

A	B	C	D = C - B	E = B - A	G = D x F	H = «ScrenLength» x F	I = (top screen-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.)
—	59.87	93.00	33.13	—	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
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
1305	10/5s @ 140psi	—	200	59.87	23.37	2.80	1.89	6.77	-125	59.5	colorless
1308		600		59.92	22.51	3.13	0.71	6.39	-155	55.7	"
1311		1200		59.91	22.43	3.17	0.59	6.37	-164	52.4	"
1314		1800		59.95	22.40	3.18	0.37	6.36	-169	45.4	"
1317		2400		59.94	22.43	3.19	0.29	6.37	-172	40.6	"
1320		3000		59.92	22.45	3.21	0.28	6.37	-174	33.8	
1323		3600		59.93	22.46	3.20	0.27	6.37	-175	29.7	

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
1305	1323	200	3.6	N/A	NA	59.93	1323	AW0075UB_WG20080422_01

Notes: (units) [stabilization criteria] Ferrous Iron 1.37 PID 2.9 ppm

DUP: " " -02
DRUM NO:

BOE-C6-0188672

AVOCET ENVIRONMENTAL, INC.

GROUNDWATER SAMPLING DATA SHEET

Project Name:	BCRE Former C-6 Facility	**Date:**	4/22/08
Project No.:	1155.006	**Prepared by:**	BCB
Well Identification:	AW0076UB	**Weather:**	Clear / Warm
Measurement Point Description:	TOC-N	**Pump Intake:**	COS
		Screen:	

A	B	C	D = C - B	E = B - A	G = D x F	H = «ScrenLength» x F	I = (top screen-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.)
—	59.34	92.00	32.66	—	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
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
1229	10/5s @ 140psi	—	200	59.34	23.18	3.23	3.07	6.67	-113	92.9	cloudy
1232	↓	600	↓	60.35	22.28	3.19	1.27	6.44	-145	50.4	"
1235		1200		60.38	22.23	3.16	0.73	6.42	-157	45.7	"
1238		1800		60.41	22.17	3.17	0.42	6.41	-165	20.1	colorless
1241		2400		60.40	22.11	3.21	0.35	6.41	-167	14.7	"
1244		3000		60.40	22.04	3.25	0.32	6.40	-169	10.16	"
1247	↓	3600	↓	60.40	22.11	3.30	0.31	6.41	-169	7.32	"

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
1229	1247	200	3.6	N/A	NA	60.40	1247	AW0076UB_WG20080422_01

Notes: (units) [stabilization criteria]

Ferrous Iron 1.49

PID 5.3 ppm

DUP:
DRUM NO:

BOE-C6-0188673

AVOCET ENVIRONMENTAL, INC.

QA/QC SAMPLE IDENTIFICATION FORM

Project Name: BCRE Former C-6 Facility

Project No.: 1155.006

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
4/22/08	13:23	Dupl.	AW0075UB_WG200804 22_02			VOC 8260B	NA	BCB	
			↳	C6	AW0075UB_WG200804 22_01				
4/22/08	–	Travel Blank	TB_AV020080422_01 / C6		–	VOCs 8260B	Test America	BCB	

S:\Projects\1146 Boeing C-1\005_Ground Water Monitoring\Field Forms\[QAQC Sample ID Form.xls]Sheet1

BOE-C6-0188674

AVOCET ENVIRONMENTAL, INC.

INSTRUMENT CALIBRATION SHEET

Project Name: BCRE Former C-6 Facility	Project #: 1155.006

Date	Time	Instrument Type	Instrument Serial No.	Calibration Method	Calibrated by	Remarks
4/21/08	1430	QED MP20	MP20-1585	pH	C.J.	
4/22/08	0730	QED MP20	MP20-1585	D.O.	BCB	

AVOCET ENVIRONMENTAL, INC.

Groundwater Monitoring Well Gauging Sheet

Project Name: Boeing C-6 April 2008 Gauging Even **Project Manager:** Michael Rendina **Project No.:** 1155.006

Location: Torrance, CA **Field Personnel:** Brian Barsumian **Date:** 4/22/2008

Field Conditions:

Well ID	Previous Measurement Date	Previous Depth to Water	Date	Time	Well Diameter	PID (ppm)	Measurement Point	Depth to Water	Depth to Water #2	Total Depth	Comments/Well Conditon
AW0066UB	Mar-08	59.79	4/22/2008	-	2	27.1	TOC-N	59.37	59.37	-	
AW0067UB	Mar-08	59.81	4/22/2008	-	2	0	TOC-N	58.94	58.94	-	
AW0064UB	Mar-08	58.96	4/22/2008	-	4	0.1	TOC-N	58.87	58.87	-	
AW0065UB	Mar-08	59.39	4/22/2008	-	2	19.3	TOC-N	59.29	59.29	-	
WCC_06S	Mar-08	59.46	4/22/2008	-	4	0.2	TOC-N	59.39	59.39	-	
AW0074UB	Mar-08	59.44	4/22/2008	-	2	2.7	TOC-N	59.35	59.35	-	
AW0075UB	Mar-08	59.99	4/22/2008	13:05	2	2.9	TOC-N	59.87	59.87	93	
AW0076UB	Mar-08	61.54	4/22/2008	12:29	2	5.3	TOC-N	59.34	59.34	92	
AW0077UB	Mar-08	60.61	4/22/2008	8:20	2	24.7	TOC-N	60.57	60.57	86	
EWB002	Mar-08	60.4	4/22/2008	10:31	4	4.1	TOC-N	60.31	60.31	90	
AW0073C	Mar-08	60.12	4/22/2008	9:36	2	2.2	TOC-N	60.04	60.04	117	

AVOCET ENVIRONMENTAL, INC.

Groundwater Monitoring Well Gauging Sheet

Project Name: Boeing C-6 MaY 2008 Gauging Event **Project Manager:** Michael Rendina **Project No.:** 1155.006

Location: Torrance, CA **Field Personnel:** BCB **Date:** 5/20/2008

Field Conditions: Tip Top

Well ID	Previous Measurement Date	Previous Depth to Water	Previous Total Depth	Date	Time	Well Diameter	PID (ppm)	Measurement Point	Depth to Water	~~Depth to Water #2~~	~~Total Depth~~	Comments/Well Conditon
AW0074UB	Apr-08	59.35	95	5/20/08	0759	2"	0.2	TOC-N	59.30			
AW0075UB	Apr-08	59.87	95		0827	2"	2.7	TOC-N	59.85			
AW0064UB	Apr-08	58.87	92		0815	2"	1.2	TOC-N	58.78			
AW0067UB	Apr-08	58.94	93		0820	2"	0.7	TOC-N	59.64			
AW0073C	Apr-08	60.04	120		0940	2"	2.1	TOC-N	60.09			
AW0077UB	Apr-08	60.57	86		1051	2"	4.4	TOC-N	60.54			
EWB002	Apr-08	60.31	90		1302	6"	23.8	TOC-N	60.19			
AW0076UB	Apr-08	59.34	92		1357	2"	4.9	TOC-N	60.27			
AW0065UB	Apr-08	59.29	92		1510	2"	11.2	TOC-N	59.19			
AW0066UB	Apr-08	59.37	91		1520	2"	4.7	TOC-N	59.82			

AVOCET ENVIRONMENTAL, INC.

GROUNDWATER SAMPLING DATA SHEET

Project Name:	Boeing C-6 GWM - B1/36 WDR	**Date:**	5/20/08
Project No.:	1155.003	**Prepared by:**	BCB
Well Identification:	AW0076UB	**Weather:**	Overcast / 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.)
—	60.27	92.00	31.73	—	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
1405	10/5s @ 1457	—	200	60.27	25.75	3.07	1.29	6.77	-155	21.1	cloudy
1408	↓	600	↓	60.36	22.79	3.37	0.21	6.53	-182	17.2	"
1411		1200		60.37	22.61	3.45	0.17	6.52	-190	6.87	colorless
1414		1800		60.37	22.53	3.55	0.16	6.51	-194	10.11	"
1417		2400		60.38	22.49	3.63	0.17	6.52	-196	8.93	"
1420		3000		60.37	22.57	3.63	0.31	6.53	-192	7.44	"
1423		3600		60.37	22.55	3.62	0.29	6.52	-19	3.72	"

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
1405	1423	200	~3.6	N/A	NA	60.37	1423	AW0076UB_WG200805 20 _01

Notes: (units) [stabilization criteria]

Field Parameters		
Ferrous Iron (mg/L)	PID (ppm):	Chemetrics D.O.(mg/L)
1.43	4.9	

DUP:
DRUM NO:

BOE-C6-0188678

AVOCET ENVIRONMENTAL, INC.

GROUNDWATER SAMPLING DATA SHEET

Project Name:	Boeing C-6 GWM - B1/36 WDR	**Date:**	5/20/08
Project No.:	1155.003	**Prepared by:**	BCB
Well Identification:	~~AW0077UB~~ EWB002	**Weather:**	Partly cloudy / warm
Measurement Point Description:		**Pump Intake:**	**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.)
—	60.19	90.00	29.81	—	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
1304	10/5s @ 145#	—	200	60.19	22.28	3.05	0.24	6.51	-232	24.6	colorless
1307	↓	600	↓	60.30	22.05	3.02	0.23	6.47	-229	17.4	"
1310		1200		60.37	21.99	3.02	0.20	6.47	-225	1.69	"
1313		1800		60.42	21.97	3.02	0.18	6.47	-224	1.31	"
1316		2400		60.44	21.93	3.01	0.19	6.46	-222	1.11	"
1319		3000		60.45	21.91	3.01	0.19	6.47	-218	0.92	"
1322	↓	3600	↓	60.45	21.94	3.02	0.19	6.46	-217	0.97	"

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
1304	1322	200	3.6	N/A	NA	60.45	1322	EWB002 ~~AW0077UB~~_WG200805 20 _01

Notes: (units) [stabilization criteria]

Field Parameters		
Ferrous Iron (mg/L)	PID (ppm):	Chemetrics D.O.(mg/L)
1.49	4.4	

DUP: ~~AW0077UB~~_WG200805 20 _02
DRUM NO: EWB002

BOE-C6-0188679

AVOCET ENVIRONMENTAL, INC.

GROUNDWATER SAMPLING DATA SHEET

Project Name:	Boeing C-6 GWM - B1/36 WDR	**Date:**	5/20/08
Project No.:	1155.003	**Prepared by:**	BCB
Well Identification:	~~EWB002~~ AW0077UB	**Weather:**	Overcast / Cool
Measurement Point Description:	TOC-N	**Pump Intake:**	COS
		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.)
—	60.54	86.00	25.46	—	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

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
1051	10/5s @ 150%	—	200	60.54	22.80	2.10	0.63	6.70	-213	27.4	colorless
1054	↓	600	↓	61.17	21.74	2.97	0.25	6.14	-224	15.7	"
1057		1200		61.25	21.75	3.55	0.22	6.16	-228	3.16	"
1100		1800		61.31	21.76	3.06	0.22	6.22	-237	2.25	"
1103		2400		61.40	21.67	2.95	0.26	6.05	-236	9.51	light yellow
1106		3000		61.45	21.60	2.99	0.29	5.99	-241	7.74	"
1109		3600		61.50	21.62	2.97	0.34	6.02	-238	6.99	"

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
1051	1109	200	3.6	N/A	NA	61.50	1109	AW0077UB ~~EWB002~~_WG200805 20 _01

Notes: (units) [stabilization criteria]

Field Parameters		
Ferrous Iron (mg/L)	PID (ppm):	Chemetrics D.O.(mg/L)
0.81	23.8	

DUP: ~~EWB002~~_WG200805 20 _02
DRUM NO: AW0077UB

BOE-C6-0188680

AVOCET ENVIRONMENTAL, INC.

GROUNDWATER SAMPLING DATA SHEET

Project Name:	Boeing C-6 GWM - B1/36 WDR	**Date:**	5/20/08
Project No.:	1155.003	**Prepared by:**	BLB
Well Identification:	AW0073C	**Weather:**	Overcast / Cool
Measurement Point Description:	TOC-N	**Pump Intake:**	COS
		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.)
—	60.09	117.00	56.91	—	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
0940	10/5s @ 145 PM	—	200	60.09	22.30	1.75	2.31	6.82	-121	7.37	Colorless
0943	↓	600	↓	60.14	22.30	0.883	0.90	7.12	-232	16.5	"
0946		1200		60.17	22.14	0.885	0.34	7.11	-242	51.4	"
0949		1800		60.19	22.17	0.798	0.19	7.11	-254	33.5	"
0952		2400		60.20	22.17	0.795	0.17	7.12	-260	29.1	"
0955		3000		60.18	22.16	0.793	0.14	7.12	-267	24.8	"
0958		3600		60.17	22.17	0.793	0.13	7.11	-274	10.81	"

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
0940	0958	200	3.6	N/A	NA	60.17	0958	AW0073C_WG20080520_01

Notes: (units) [stabilization criteria]

Field Parameters		
Ferrous Iron (mg/L)	PID (ppm):	Chemetrics D.O.(mg/L)
1.07	2.1	

DUP: AW0073C_WG20080520_02
DRUM NO:

BOE-C6-0188681

AVOCET ENVIRONMENTAL, INC.

GROUNDWATER SAMPLING DATA SHEET

Project Name:	Boeing C-6 GWM - B1/36 WDR	**Date:**	5/20/08
Project No.:	1155.003	**Prepared by:**	BCB
Well Identification:	AW0075UB	**Weather:**	Overcast / Cool
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.)
—	59.85	93.00	33.15	—	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
0827	10/5s @ 145 ft	—	200	59.85	22.17	3.11	0.58	6.54	-156	18.2	colorless
0830	↓	600		59.91	22.11	3.02	0.30	6.46	-164	15.9	"
0833		1200		59.88	22.10	3.03	0.26	6.45	-117	12.6	"
0836		1800		59.87	22.10	3.05	0.23	6.45	-180	15.7	"
0839		2400		59.89	22.07	3.07	0.22	6.44	-183	19.4	"
0842		3000		59.88	22.06	3.09	0.22	6.45	-184	18.9	"
0845		3600		59.89	22.08	3.10	0.21	6.44	-185	19.2	"

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
0827	0845	200	3.6	N/A	NA	59.89	0845	AW0075UB_WG20080520_01

Notes: (units) [stabilization criteria]

Field Parameters		
Ferrous Iron (mg/L)	PID (ppm):	Chemetrics D.O.(mg/L)
1.29	2.7	—

DUP:
DRUM NO:

BOE-C6-0188682

AVOCET ENVIRONMENTAL, INC.

INSTRUMENT CALIBRATION SHEET

Project Name: Boeing/Former C-1	Project #: 1155

Date	Time	Instrument Type	Instrument Serial No.	Calibration Method	Calibrated by	Remarks
5/20/08	0702	QED		pH & DO	BCB	

AVOCET ENVIRONMENTAL, INC.

Groundwater Monitoring Well Gauging Sheet

Project Name: Boeing C-6 June 2008 Gauging Event **Project Manager:** Michael Rendina **Project No.:** 1155.006

Location: Long Beach, CA **Field Personnel:** DML **Date:** 6/17/2008

Field Conditions: Clear/Warm

Well ID	Previous Measurement Date	Previous Depth to Water	Previous Total Depth	Date	Time	Well Diameter	PID (ppm)	Measurement Point	Depth to Water	Depth to Water #2	Total Depth	Comments/Well Conditon
WCC_12S	03/24/08	58.18	90.29	6/17/2008	7:08	4"	0.4	TOC-N	58.07	58.07	NM	Good, bolts missing.
AW0066UB	03/24/08	59.79	89.37	6/17/2008	7:45	4"	0.3	TOC-N	58.98	58.98	NM	Good, bolts missing.
TMW_07	03/24/08	60.88	82.61	6/17/2008	7:35	2"	0.3	TOC-N	60.78	60.78	NM	Good, bolts missing.
AW0067UB	05/20/08	59.64	93.00	6/17/2008	7:55	4"	4.1	TOC-N	58.52	58.52	NM	Good, bolts missing.
AW0073C	05/20/08	60.09	120.00	6/17/2008	8:00	2"	17.2	TOC-N	60.04	60.04	NM	Good, bolts missing.
EWB002	05/20/08	60.19	90.00	6/17/2008	8:10	4"	10.2	TOC-N	60.28	60.28	NM	Good, bolts missing.
AW0055UB	03/24/08	60.18	88.45	6/17/2008	8:20	2"	36.7	TOC-N	60.03	60.03	NM	Good, bolts missing.
AW0075UB	05/20/08	59.85	95.00	6/17/2008	8:45	2"	48.2	TOC-N	59.85	59.85	NM	Good, bolts missing.
AW0077UB	05/20/08	60.54	86.00	6/17/2008	8:50	2"	18.4	TOC-N	60.53	60.53	NM	Good, bolts missing.
AW0076UB	05/20/08	60.27	92.00	6/17/2008	9:05	2"	21.8	TOC-N	60.34	60.34	NM	Good, bolts missing.
AW0065UB	2/26/2008	60.15	92.00	6/17/2008	8:55	2"	18.6	TOC-N	59.32	59.32	NM	Good, bolts missing.
AW0064UB	2/26/2008	60.39	92.00	6/17/2008	8:15	2"	12.5	TOC-N	58.85	58.85	NM	Good, bolts missing.
AW0074UB	2/26/2008	59.65	95.00	6/17/2008	8:05	2"	0.9	TOC-N	59.34	59.34	NM	Good, bolts and well plug missing.
WCC_06S	2/26/2008	59.62	90.00	6/17/2008		Operating extraction well - inaccessible for fluid level gauging.						

NM - Indicates "Not Measured"

AVOCET ENVIRONMENTAL, INC.

GROUNDWATER SAMPLING DATA SHEET

Project Name:	BCRE Former C-6 Facility	Date:	6/18/08
Project No.:	1155.006	Prepared by:	BCB
Well Identification:	AW0076UB	Weather:	Clear / Hot
Measurement Point Description:	TOC-N	Pump Intake: COS	Screen:

	A	B	C		E					
Depth to LNAPL (ft-bmp)	Depth to Static Water Level (ft-bmp)	Well Total Depth (ft-bmp)	Water Column Height (ft) (A-B=C)	LNAPL Thickness (ft-bmp)	One (1) Casing Volume (gallons) (CXD=E)	Three (3) Casing Volumes (gallons) (Ex3)	1/2 Casing Volume (E/2)	Above screen Volume (Top Screen - DTW)xD	Screen Volume (Screen Length x D)	1/2 Screen Volume
—	60.32	92.00	31.68	—	—	—	—	—	—	—

	Gallons/Foot			
Well Diameter (in)	0.75	2	4	6
D Gallons per foot of casing	0.02	0.16	0.65	1.47

Field Equipment: QED

Purge Method: Micropurge

Well Condition: Good

Time	Casing/ Screen	Volume Purged (~~gallons~~)	Flow Rate (~~gpm~~)	Water Level (ft-bmp)	pH	Temperature (°C)	Turbidity (NTU)	Conductivity (M S/CM)	Dissolved Oxygen (mg/L)	ORP (mV)	Observations
1252	—	—	250 ml/m	60.32	6.59	33.07	14.7	3.51	0.22	-128	Colorless
1255		750		60.37	6.42	24.18	3.16	3.73	0.11	-117	"
1258		1500		60.38	6.41	23.32	2.94	3.67	0.10	-124	"
1301		2250		60.37	6.44	23.24	2.77	3.69	0.10	-129	"
1304		3000		60.37	6.45	23.17	2.34	3.72	0.09	-130	"
1307		3750		60.38	6.44	23.12	1.71	3.75	0.09	-131	"
1310		4500		60.39	6.46	23.18	1.27	3.74	0.09	-134	"

Purge Start Time	Purge End Time	Average Flow (~~gpm~~)	Total ~~Gallons~~ Purged	Total Casing Volumes Purged	80% Recovery Water Level Depth (Cx0.80) – B	Water Level at Sampling Time (ft bmp)	Sample Collection Time	Sample Identification
1252	1310	250 ml/m	4.5 L	—	—	60.39	1310	AW0076UB_WG200806 1801

Ferrous Iron = 1.62 mg/L

BOE-C6-0188685

AVOCET ENVIRONMENTAL, INC.

GROUNDWATER SAMPLING DATA SHEET

Project Name:	BCRE Former C-6 Facility	**Date:**	6/18/08
Project No.:	1155.006	**Prepared by:**	BCB
Well Identification:	AW0075UB	**Weather:**	Clear / Hot
Measurement Point Description:	TOC-N	**Pump Intake:**	CQS
		Screen:	

	A	B	C		E					
Depth to LNAPL (ft-bmp)	Depth to Static Water Level (ft-bmp)	Well Total Depth (ft-bmp)	Water Column Height (ft) (A-B=C)	LNAPL Thickness (ft-bmp)	One (1) Casing Volume (gallons) (CXD=E)	Three (3) Casing Volumes (gallons) (Ex3)	1/2 Casing Volume (E/2)	Above screen Volume (Top Screen - DTW)xD	Screen Volume (Screen Length x D)	1/2 Screen Volume
—	59.79	93.00	33.21	—	—	—	—	—	—	—

	Gallons/Foot				
Well Diameter (in)	0.75	2	4	6	Field Equipment: QED
D Gallons per foot of casing	0.02	0.16	0.65	1.47	Purge Method: Micropurge
					Well Condition: Good

Time	Casing/ Screen	Volume Purged ~~(gallons)~~	Flow Rate ~~(gpm)~~	Water Level (ft-bmp)	pH	Temperature (°C)	Turbidity (NTU)	Conductivity (M S/CM)	Dissolved Oxygen (mg/L)	ORP (mV)	Observations
1122	—	—	250 ml/m	59.79	6.44	32.19	26.4	3.27	0.21	-193	colorless
1125		750		59.85	6.45	24.21	15.7	3.39	0.09	-168	"
1128		1500		59.84	6.41	23.65	15.1	3.46	0.08	-162	"
1131		2250		59.87	6.41	23.53	14.3	3.48	0.08	-159	"
1134		3000		59.89	6.42	23.42	17.1	3.49	0.07	-157	"
1137		3750		59.87	6.43	23.40	16.3	3.50	0.07	-156	"
1140		4500			6.44	23.39	16.0	3.53	0.07	-156	"

Purge Start Time	Purge End Time	Average Flow ~~(gpm)~~	Total ~~Gallons~~ Purged	Total Casing Volumes Purged	80% Recovery Water Level Depth (Cx0.80) – B	Water Level at Sampling Time (ft bmp)	Sample Collection Time	Sample Identification
1122	1140	250 ml/m	4.5 L	—	—		1140	AW0075UB_WG20080618 01

Ferrous Iron = 1.49 mg/L

BOE-C6-0188686

AVOCET ENVIRONMENTAL, INC.

GROUNDWATER SAMPLING DATA SHEET

Project Name:	BCRE Former C-6 Facility	Date:	6/18/08
Project No.:	1155.006	Prepared by:	BCB
Well Identification:	AW0077UB	Weather:	Clear / Hot
Measurement Point Description:	TOC-N	Pump Intake:	COS
		Screen:	

	A	B	C		E					
Depth to LNAPL (ft-bmp)	Depth to Static Water Level (ft-bmp)	Well Total Depth (ft-bmp)	Water Column Height (ft) (A-B=C)	LNAPL Thickness (ft-bmp)	One (1) Casing Volume (gallons) (CXD=E)	Three (3) Casing Volumes (gallons) (Ex3)	1/2 Casing Volume (E/2)	Above screen Volume (Top Screen - DTW)xD	Screen Volume (Screen Length x D)	1/2 Screen Volume
—	60.59	86.00	35.41	—	—	—	—	—	—	—

	Gallons/Foot			
Well Diameter (in)	0.75	2	4	6
D Gallons per foot of casing	0.02	0.16	0.65	1.47

Field Equipment: QED

Purge Method: Micropurge

Well Condition: Good

Time	Casing/ Screen	Volume Purged (~~gallons~~)	Flow Rate (~~gpm~~)	Water Level (ft-bmp)	pH	Temperature (°C)	Turbidity (NTU)	Conductivity (M S/CM)	Dissolved Oxygen (mg/L)	ORP (mV)	Observations
0952	—	—	250 ml/m	60.59	6.24	23.19	5.37	3.40	0.47	-118	colorless
0955		750		60.78	6.14	22.60	35.4	3.58	0.34	-120	"
0958		1500		60.92	6.12	22.33	31.6	3.52	0.22	-128	"
1001		2250		61.11	6.17	22.41	17.2	3.26	0.11	-144	light yellow
1004		3000		61.95	6.20	22.38	6.94	3.21	0.08	-154	" "
1007		3750		61.98	6.24	22.38	6.10	3.19	0.08	-157	" "
1010		4500		62.05	6.26	22.48	8.37	3.21	0.08	-157	" "

Purge Start Time	Purge End Time	Average Flow (~~gpm~~)	Total ~~Gallons~~ Purged	Total Casing Volumes Purged	80% Recovery Water Level Depth (Cx0.80) – B	Water Level at Sampling Time (ft bmp)	Sample Collection Time	Sample Identification
0952	1010	250 ml/m	4.5 L	—	—	62.05	1010	AW0077UB_WG200806 18 01

Ferrous Iron

2.64 mg/L

BOE-C6-0188687

AVOCET ENVIRONMENTAL, INC.

GROUNDWATER SAMPLING DATA SHEET

Project Name:	BCRE Former C-6 Facility	Date:	6/18/08
Project No.:	1155.006	Prepared by:	BCB
Well Identification:	AW0055UB	Weather:	Clear / Warm
Measurement Point Description:	TOC-N	Pump Intake:	COS
		Screen:	69 - 89

	A	B	C		E					
Depth to LNAPL (ft-bmp)	Depth to Static Water Level (ft-bmp)	Well Total Depth (ft-bmp)	Water Column Height (ft) (A-B=C)	LNAPL Thickness (ft-bmp)	One (1) Casing Volume (gallons) (CXD=E)	Three (3) Casing Volumes (gallons) (Ex3)	1/2 Casing Volume (E/2)	Above screen Volume (Top Screen - DTW)xD	Screen Volume (Screen Length x D)	1/2 Screen Volume
—	60.02	89.30	39.28	—	—	—	—	—	—	—

	Gallons/Foot			
Well Diameter (in)	0.75	2	4	6
D Gallons per foot of casing	0.02	0.16	0.65	1.47

Field Equipment: QED

Purge Method: Micropurge

Well Condition:

Time	Casing/ Screen	Volume Purged ~~(gallons)~~	Flow Rate ~~(gpm)~~	Water Level (ft-bmp)	pH	Temperature (°C)	Turbidity (NTU)	Conductivity (M S/CM)	Dissolved Oxygen (mg/L)	ORP (mV)	Observations
0847		—	250 ml/m	60.02	6.65	23.96	~~2.50~~ 53.1	2.50	2.04	-58	colorless
0850		750		60.18	6.55	22.44	12.0	3.05	1.06	-77	"
0853		1500		60.20	6.54	22.29	2.02	3.05	0.52	-103	"
0856		2250		60.23	6.54	22.29	0.44	3.05	0.39	-107	"
0859		3000		60.25	6.56	22.24	1.09	3.05	0.24	-114	"
0902		3750		60.23	6.56	22.27	1.25	3.06	0.20	-117	"
0905		4500		60.19	6.57	22.25	0.77	3.06	0.16	-120	"

Purge Start Time	Purge End Time	Average Flow ~~(gpm)~~	Total ~~Gallons~~ Purged	Total Casing Volumes Purged	80% Recovery Water Level Depth (Cx0.80) – B	Water Level at Sampling Time (ft bmp)	Sample Collection Time	Sample Identification
0847	0905	250 ml/m	4.5 L	—	?	60.19	0905	AW0055UB_WG200806 18 01

DUP: AW0055UB_WG20080618_02

Ferrous Iron = 1.11 mg/L

BOE-C6-0188688

AVOCET ENVIRONMENTAL, INC.

GROUNDWATER SAMPLING DATA SHEET

Project Name:	BCRE Former C-6 Facility	Date:	6/18/08
Project No.:	1155.006	Prepared by:	BCB
Well Identification:	EWB002	Weather:	Clear / Warm
Measurement Point Description:	TOC-N	Pump Intake:	60s
		Screen:	

	A	B	C		E					
Depth to LNAPL (ft-bmp)	Depth to Static Water Level (ft-bmp)	Well Total Depth (ft-bmp)	Water Column Height (ft) (A-B=C)	LNAPL Thickness (ft-bmp)	One (1) Casing Volume (gallons) (CXD=E)	Three (3) Casing Volumes (gallons) (Ex3)	1/2 Casing Volume (E/2)	Above screen Volume (Top Screen - DTW)xD	Screen Volume (Screen Length x D)	1/2 Screen Volume
—	60.33	90.00	29.67	—	—	—	—	—	—	—

	Gallons/Foot				
Well Diameter (in)	0.75	2	4	6	Field Equipment: QED
D Gallons per foot of casing	0.02	0.16	0.65	1.47	Purge Method: Micropurge
					Well Condition: Good

Time	Casing/ Screen	Volume Purged ~~(gallons)~~	Flow Rate ~~(gpm)~~	Water Level (ft-bmp)	pH	Temperature (°C)	Turbidity (NTU)	Conductivity (M S/CM)	Dissolved Oxygen (mg/L)	ORP (mV)	Observations
0746	—	—	250 ml/m	60.33	6.01	22.98	10.13	3.04	1.24	-79	colorless
0749		750		60.59	6.35	22.27	3.34	3.19	0.67	-113	"
0752		1500		60.60	6.38	22.22	3.17	3.20	0.35	-126	"
0755		2250		60.62	6.40	22.22	2.37	3.21	0.19	-136	"
0758		3000		60.64	6.42	22.21	2.40	3.21	0.15	-139	"
0801		3750		60.67	6.42	22.23	2.47	3.21	0.07	-140	"
0804		4500		60.68	6.43	22.22	2.94	3.21	0.07	-141	"

Purge Start Time	Purge End Time	Average Flow ~~(gpm)~~	Total ~~Gallons~~ Purged	Total Casing Volumes Purged	80% Recovery Water Level Depth (Cx0.80) – B	Water Level at Sampling Time (ft bmp)	Sample Collection Time	Sample Identification
0746	0804	250 ml/m	4.5 L	—	—		0804	EWB002_WG20080618 01

Ferrous Iron = 3.30 mg/L

BOE-C6-0188689

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AVOCET ENVIRONMENTAL, INC.

GROUNDWATER SAMPLING DATA SHEET

Project Name:	BCRE Former C-6 Facility	Date:	6/17/08
Project No.:	1155.006	Prepared by:	BCB
Well Identification:	WCC_12S	Weather:	Clear / Cool
Measurement Point Description:	TOC-N	Pump Intake: 60s	Screen: 60-90

	A	B	C		E					
Depth to LNAPL (ft-bmp)	Depth to Static Water Level (ft-bmp)	Well Total Depth (ft-bmp)	Water Column Height (ft) (A-B=C)	LNAPL Thickness (ft-bmp)	One (1) Casing Volume (gallons) (CXD=E)	Three (3) Casing Volumes (gallons) (Ex3)	1/2 Casing Volume (E/2)	Above screen Volume (Top Screen - DTW)xD	Screen Volume (Screen Length x D)	1/2 Screen Volume
—	58.07	92.00	33.93	—	—	—	—	—	—	—

	Gallons/Foot			
Well Diameter (in)	0.75	2	(4)	6
D Gallons per foot of casing	0.02	0.16	0.65	1.47

Field Equipment: QED

Purge Method: Micropurge

Well Condition: need to chase threads w/ tap

Time	Casing/ Screen	Volume Purged ~~(gallons)~~	Flow Rate ~~(gpm)~~	Water Level (ft-bmp)	pH	Temperature (°C)	Turbidity (NTU)	Conductivity (M S/CM)	Dissolved Oxygen (mg/L)	ORP (mV)	Observations
0740		—	250 ml/m	58.07	6.50	21.75	29.7	1.78	4.47	154	Colorless
0743		750		58.19	6.77	21.82	14.2	1.77	4.34	149	"
0746		1500		58.22	6.95	21.85	5.51	1.79	4.22	139	"
0749		2250		58.24	6.99	21.87	2.94	1.78	4.20	137	"
0752		3000		58.25	7.01	21.87	2.03	1.80	4.21	133	"
0755		3750		58.24	7.04	21.87	1.18	1.82	4.20	130	"
0758		4500		58.25	7.03	21.88	1.05	1.81	4.20	129	"

Purge Start Time	Purge End Time	Average Flow ~~(gpm)~~	Total ~~Gallons~~ Purged	Total Casing Volumes Purged	80% Recovery Water Level Depth (Cx0.80) – B	Water Level at Sampling Time (ft bmp)	Sample Collection Time	Sample Identification
0740	0758	250 ml/m	4.5 L	—	—	58.25	0758	WCC_12S_WG200806 17 01

Ferrous Iron = 0.06 mg/L

BOE-C6-0188690

AVOCET ENVIRONMENTAL, INC.

GROUNDWATER SAMPLING DATA SHEET

Project Name:	BCRE Former C-6 Facility	Date:	6/17/08
Project No.:	1155.006	Prepared by:	BCB
Well Identification:	AW0067UB	Weather:	Clear / Warm
Measurement Point Description:	TOC- N	Pump Intake: COS	Screen: 70-90'

	A	B	C		E					
Depth to LNAPL (ft-bmp)	Depth to Static Water Level (ft-bmp)	Well Total Depth (ft-bmp)	Water Column Height (ft) (A-B=C)	LNAPL Thickness (ft-bmp)	One (1) Casing Volume (gallons) (CXD=E)	Three (3) Casing Volumes (gallons) (Ex3)	1/2 Casing Volume (E/2)	Above screen Volume (Top Screen - DTW)xD	Screen Volume (Screen Length x D)	1/2 Screen Volume
—	58.32	90.00	31.68	—	—	—	—	—	—	—

	Gallons/Foot			
Well Diameter (in)	0.75	2	4	6
D Gallons per foot of casing	0.02	0.16	0.65	1.47

Field Equipment: QED

Purge Method: Micropurge

Well Condition: Good

Time	Casing/ Screen	Volume Purged ~~(gallons)~~	Flow Rate ~~(gpm)~~	Water Level (ft-bmp)	pH	Temperature (°C)	Turbidity (NTU)	Conductivity (M S/CM)	Dissolved Oxygen (mg/L)	ORP (mV)	Observations
1207	—	—	200 ml/m	58.32	4.09	25.15	218	2.48	1.81	-49	slightly cloudy
1210		600		58.67	4.05	24.88	233	2.52	0.57	-66	" " "
1213		1200		58.72	4.06	24.92	230	2.52	0.33	-78	" "
1216		1800		58.69	4.07	25.03	234	2.52	0.16	-87	" "
1219		2400		58.62	4.07	24.44	218	2.54	0.18	-94	" "
1222		3000		58.60	4.08	24.47	212	2.53	0.17	-97	" "
1225		3600		58.61	4.07	24.49	207	2.53	0.17	-101	" "

Purge Start Time	Purge End Time	Average Flow ~~(gpm)~~	Total ~~Gallons~~ Purged	Total Casing Volumes Purged	80% Recovery Water Level Depth (Cx0.80) – B	Water Level at Sampling Time (ft bmp)	Sample Collection Time	Sample Identification
1207	1225	200 ml/m	3.6 L	—	—	58.61	1225	AW0067UB_WG20080617-01

* Duplicates collected for DHG analysis

Ferrous Iron = 1.79 mg/L

AW0067UB_WG20080617-02

BOE-C6-0188691

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AVOCET ENVIRONMENTAL, INC.

GROUNDWATER SAMPLING DATA SHEET

Project Name:	BCRE Former C-6 Facility	Date:	6/17/08
Project No.:	1155.006	Prepared by:	BCB
Well Identification:	AW0073C	Weather:	clear/warm
Measurement Point Description:	TOC-N	Pump Intake:	COS
		Screen:	

	A	B	C		E					
Depth to LNAPL (ft-bmp)	Depth to Static Water Level (ft-bmp)	Well Total Depth (ft-bmp)	Water Column Height (ft) (A-B=C)	LNAPL Thickness (ft-bmp)	One (1) Casing Volume (gallons) (CXD=E)	Three (3) Casing Volumes (gallons) (Ex3)	1/2 Casing Volume (E/2)	Above screen Volume (Top Screen - DTW)xD	Screen Volume (Screen Length x D)	1/2 Screen Volume
—	59.99	117.00	57.01	—	—	—	—	—	—	—

	Gallons/Foot			
Well Diameter (in)	0.75	2	4	6
D Gallons per foot of casing	0.02	0.16	0.65	1.47

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

Time	Casing/ Screen	Volume Purged ~~(gallons)~~	Flow Rate ~~(gpm)~~	Water Level (ft-bmp)	pH	Temperature (°C)	Turbidity (NTU)	Conductivity (M S/CM)	Dissolved Oxygen (mg/L)	ORP (mV)	Observations
0915		—	250 ml/m	59.99	7.10	27.28	2.58	1.033	3.43	-126	colorless
0918		750		60.29	6.91	23.01	98.7	0.896	0.67	-146	slightly cloudy
0921		1500		60.32	6.96	22.93	75.7	0.871	0.34	-163	" "
0924		2250		60.36	7.00	22.84	63.4	0.846	0.15	-165	" "
0927		3000		60.35	7.04	22.88	44.9	0.829	0.12	-171	" "
0930		3750		60.34	7.08	22.85	30.2	0.817	0.11	-175	colorless
0933		4500		60.33	7.09	22.84	16.7	0.809	0.10	-179	"

Purge Start Time	Purge End Time	Average Flow ~~(gpm)~~	Total ~~Gallons~~ Purged	Total Casing Volumes Purged	80% Recovery Water Level Depth (Cx0.80) – B	Water Level at Sampling Time (ft bmp)	Sample Collection Time	Sample Identification
0915	0918	250 ml/m	4.5 L	—	—	60.33	0933	AW0073C_WG20080617-01
								AW0073C_WG20080617-02

* Duplicates collected for DHG analyses D.O. = 0.1 mg/L Ferrous Iron = 1.87 mg/L

BOE-C6-0188692

AVOCET ENVIRONMENTAL, INC.

GROUNDWATER SAMPLING DATA SHEET

Project Name:	BCRE Former C-6 Facility	Date:	6/17/08
Project No.:	1155.006	Prepared by:	BCB
Well Identification:	AW0066UB	Weather:	Clear / Warm
Measurement Point Description:	TOC-N	Pump Intake:	105
		Screen:	69.5 - 89.5

	A	B	C		E					
Depth to LNAPL (ft-bmp)	Depth to Static Water Level (ft-bmp)	Well Total Depth (ft-bmp)	Water Column Height (ft) (A-B=C)	LNAPL Thickness (ft-bmp)	One (1) Casing Volume (gallons) (CXD=E)	Three (3) Casing Volumes (gallons) (Ex3)	1/2 Casing Volume (E/2)	Above screen Volume (Top Screen - DTW)xD	Screen Volume (Screen Length x D)	1/2 Screen Volume
—	58.65	90.00	31.35	—	—	—	—	—	—	—

	Gallons/Foot			
Well Diameter (in)	0.75	(2)	4	6
D Gallons per foot of casing	0.02	0.16	0.65	1.47

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

Time	Casing/ Screen	Volume Purged (~~gallons~~)	Flow Rate (~~gpm~~)	Water Level (ft-bmp)	pH	Temperature (°C)	Turbidity (NTU)	Conductivity (M S/CM)	Dissolved Oxygen (mg/L)	ORP (mV)	Observations
1047	—	—	250 ml/m	58.65	4.55	24.72	767	2.96	0.64	-61	v. cloudy w/ whitey
1050		750		59.79	4.09	24.67	764	2.97	0.51	-73	"
1053		1500		59.82	4.15	24.58	752	3.01	0.37	-114	"
1056		2250		59.74	4.22	24.51	754	3.09	0.21	-158	cloudy
1059		3000		59.71	4.24	24.44	737	3.12	0.21	-161	"
1102		3750		59.69	4.27	24.66	742	3.14	0.21	-164	"
1105		4500		59.67	4.26	24.49	731	3.16	0.22	-166	"

Purge Start Time	Purge End Time	Average Flow (~~gpm~~)	Total ~~Gallons~~ Purged	Total Casing Volumes Purged	80% Recovery Water Level Depth (Cx0.80) – B	Water Level at Sampling Time (ft bmp)	Sample Collection Time	Sample Identification
1047	1105	250 ml/m	4.5 L	—	—	59.67	1105	AW0066UB_WG200806 1701

Ferrous Iron = 1.18 mg/L

BOE-C6-0188693

AVOCET ENVIRONMENTAL, INC.

GROUNDWATER SAMPLING DATA SHEET

Project Name:	BCRE Former C-6 Facility	Date:	6/17/08
Project No.:	1155.006	Prepared by:	BLB
Well Identification:	TMW_07	Weather:	Clear / Warm
Measurement Point Description:	TOC-N	Pump Intake:	COS
		Screen:	65-85

	A	B	C		E					
Depth to LNAPL (ft-bmp)	Depth to Static Water Level (ft-bmp)	Well Total Depth (ft-bmp)	Water Column Height (ft) (A-B=C)	LNAPL Thickness (ft-bmp)	One (1) Casing Volume (gallons) (CXD=E)	Three (3) Casing Volumes (gallons) (Ex3)	1/2 Casing Volume (E/2)	Above screen Volume (Top Screen - DTW)xD	Screen Volume (Screen Length x D)	1/2 Screen Volume
—	60.79	82.60	21.81	—	—	—	—	—	—	—

	Gallons/Foot			
Well Diameter (in)	0.75	(2)	4	6
D Gallons per foot of casing	0.02	0.16	0.65	1.47

Field Equipment: QED

Purge Method: Micropurge

Well Condition: TOC - wedge & casing broken out ~ 1"x1" section

Time	Casing/ Screen	Volume Purged ~~(gallons)~~	Flow Rate ~~(gpm)~~	Water Level (ft-bmp)	pH	Temperature (°C)	Turbidity (NTU)	Conductivity (M S/CM)	Dissolved Oxygen (mg/L)	ORP (mV)	Observations
1329	—	—	250 ml/m	60.79	6.84	23.50	4.29	1.61	4.22	-6	colorless
1332		750		60.82	6.82	22.46	4.93	1.61	4.30	12	"
1335		1500		60.84	6.89	22.72	4.30	1.61	4.31	31	"
1338		2250		60.83	6.92	22.72	2.19	1.61	4.32	34	"
1341		3000		60.82	6.93	22.73	0.61	1.60	4.31	38	"
1344		3750		60.83	6.96	22.70	0.34	1.61	4.29	42	
1347		4500		60.83	6.97	22.69	0.27	1.60	4.30	47	

Purge Start Time	Purge End Time	Average Flow ~~(gpm)~~	Total ~~Gallons~~ Purged	Total Casing Volumes Purged	80% Recovery Water Level Depth (Cx0.80) – B	Water Level at Sampling Time (ft bmp)	Sample Collection Time	Sample Identification
1329	1347	250 ml/m	4.5 L	—	—	60.83	1347	TMW_07_WG200806 1701

Ferrous Iron = 0.0 mg/L

BOE-C6-0188694

AVOCET ENVIRONMENTAL, INC.

QA/QC SAMPLE IDENTIFICATION FORM

Project Name: Boeing Former C-6 Facility, Monthly WDR Sampling, June 2008 **Project No.:** 1155.006

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
6-17-08	—	Trip Blank	TB_AV020080617_01	—	—	8260B	TA-1	TA-1	
6-17-08	13:25	Equip Blank	EB_AV020080617_01	—	—	8260B	TA-1	BCB	
6-18-08	—	Trip Blank	TB_AV020080618_01	—	—	8260B	TA-1	TA-1	
6-18-08	9:05	Duplicate	AW0055UB_WG20080618_01		AW0055UB	8260B	—	BCB	

S:\Projects\1146 Boeing C-1\005_Ground Water Monitoring\Field Forms\[QAQC Sample ID Form.xls]Sheet1

BOE-C6-0188695

QED MP20

CALIBRATION CERTIFICATE

Service Technician: CJ

Date: 6/13/08

INSTRUMENT INFORMATION

EQUIPMENT I.D.: MP-20. 1

SERIAL NUMBER: _____

CALIBRATION INFORMATION

PARAMETERS:	STANDARDS:	PASS ( )	LOT#
1. Conductivity	1000 µMhos	✓	#6016
2. pH Zero	pH 7	✓	2704402
3. pH Slope	pH 4	✓	2704233
pH Slope	pH 10	✓	2706360
4. Dissolved Oxygen	Air Calibration		
	Barometric pressure = 760mmHg	✓	N/A
5. Dissolved Oxygen Zero Test	(sodium sulfite)		
6. Turbidity Zero	0.0 NTU's	N/A	100A
7. Turbidity Span	____NTU's	N/A	
8. Redox (ORP)	232 mV (YSI Zobell solution)	✓	051107

APPENDIX B

BOE-C6-0188697

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 (02/26/08)
1155.006

Sampled: 03/26/08
Received: 03/26/08
Issued: 04/15/08 14:45

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 1°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.

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

LABORATORY ID	CLIENT ID	MATRIX
IRC2059-01	TB_AVO20080326_01	Water
IRC2059-02	IRZCMW002_WG20080326_01	Water
IRC2059-03	CMW026_WG20080326_01	Water
IRC2059-04	IRZCMW003_WG20080326_01	Water
IRC2059-05	IRZCMW001_WG20080326_01	Water
IRC2059-06	MWC024_WG20080326_01	Water
IRC2059-07	CMW002_WG20080326_01	Water

Reviewed By:

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 (02/26/08)
1155.006
Report Number: IRC2059

Sampled: 03/26/08
Received: 03/26/08

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

Analyte	Method	Batch	MDL	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRC2059-01 (TB_AVO20080326_01 - Water)									
Reporting Units: ug/l									
Acrolein	EPA 8260B	8D01015	4.0	5.0	ND	1	04/01/08	04/02/08	
Acrylonitrile	EPA 8260B	8D01015	0.70	2.0	ND	1	04/01/08	04/02/08	
2-Chloroethyl vinyl ether	EPA 8260B	8D01015	1.8	5.0	ND	1	04/01/08	04/02/08	
Surrogate: Dibromofluoromethane (80-120%)					*112 %*				
Surrogate: Toluene-d8 (80-120%)					*103 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)					*94 %*				
Sample ID: IRC2059-02 (IRZCMW002_WG20080326_01 - Water)									**RL3**
Reporting Units: ug/l									
Acrolein	EPA 8260B	8D01015	16	20	ND	4	04/01/08	04/02/08	
Acrylonitrile	EPA 8260B	8D01015	2.8	8.0	ND	4	04/01/08	04/02/08	
2-Chloroethyl vinyl ether	EPA 8260B	8D01015	7.2	20	ND	4	04/01/08	04/02/08	
Surrogate: Dibromofluoromethane (80-120%)					*104 %*				
Surrogate: Toluene-d8 (80-120%)					*98 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)					*92 %*				
Sample ID: IRC2059-03 (CMW026_WG20080326_01 - Water)									**RL3**
Reporting Units: ug/l									
Acrolein	EPA 8260B	8D01007	16	20	ND	4	04/01/08	04/01/08	
Acrylonitrile	EPA 8260B	8D01007	2.8	8.0	ND	4	04/01/08	04/01/08	
2-Chloroethyl vinyl ether	EPA 8260B	8D01007	7.2	20	ND	4	04/01/08	04/01/08	
Surrogate: Dibromofluoromethane (80-120%)					*103 %*				
Surrogate: Toluene-d8 (80-120%)					*99 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)					*94 %*				
Sample ID: IRC2059-04 (IRZCMW003_WG20080326_01 - Water)									**RL3**
Reporting Units: ug/l									
Acrolein	EPA 8260B	8D01007	80	100	ND	20	04/01/08	04/01/08	
Acrylonitrile	EPA 8260B	8D01007	14	40	ND	20	04/01/08	04/01/08	
2-Chloroethyl vinyl ether	EPA 8260B	8D01007	36	100	ND	20	04/01/08	04/01/08	
Surrogate: Dibromofluoromethane (80-120%)					*105 %*				
Surrogate: Toluene-d8 (80-120%)					*98 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)					*89 %*				
Sample ID: IRC2059-05 (IRZCMW001_WG20080326_01 - Water)									**RL3**
Reporting Units: ug/l									
Acrolein	EPA 8260B	8D01007	16	20	ND	4	04/01/08	04/01/08	
Acrylonitrile	EPA 8260B	8D01007	2.8	8.0	ND	4	04/01/08	04/01/08	
2-Chloroethyl vinyl ether	EPA 8260B	8D01007	7.2	20	ND	4	04/01/08	04/01/08	
Surrogate: Dibromofluoromethane (80-120%)					*103 %*				
Surrogate: Toluene-d8 (80-120%)					*100 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)					*92 %*				

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-C6-0188699

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: IRC2059

Sampled: 03/26/08
Received: 03/26/08

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: IRC2059-06 (MWC024_WG20080326_01 - Water)									**RL3**
Reporting Units: ug/l									
Acrolein	EPA 8260B	8D01007	40	50	ND	10	04/01/08	04/01/08	
Acrylonitrile	EPA 8260B	8D01007	7.0	20	ND	10	04/01/08	04/01/08	
2-Chloroethyl vinyl ether	EPA 8260B	8D01007	18	50	ND	10	04/01/08	04/01/08	
Surrogate: Dibromofluoromethane (80-120%)					*100 %*				
Surrogate: Toluene-d8 (80-120%)					*96 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)					*92 %*				
Sample ID: IRC2059-07 (CMW002_WG20080326_01 - Water)									**RL3**
Reporting Units: ug/l									
Acrolein	EPA 8260B	8D01007	80	100	ND	20	04/01/08	04/01/08	
Acrylonitrile	EPA 8260B	8D01007	14	40	ND	20	04/01/08	04/01/08	
2-Chloroethyl vinyl ether	EPA 8260B	8D01007	36	100	ND	20	04/01/08	04/01/08	
Surrogate: Dibromofluoromethane (80-120%)					*96 %*				
Surrogate: Toluene-d8 (80-120%)					*99 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)					*97 %*				

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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 (02/26/08)
1155.006
Report Number: IRC2059

Sampled: 03/26/08
Received: 03/26/08

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: IRC2059-01 (TB_AVO20080326_01 - Water)									
Reporting Units: ug/l									
Acetone	EPA 8260B	8C31006	4.5	10	ND	1	03/31/08	03/31/08	
tert-Amyl Methyl Ether (TAME)	EPA 8260B	8C31006	0.33	2.0	ND	1	03/31/08	03/31/08	
Benzene	EPA 8260B	8C31006	0.28	0.50	ND	1	03/31/08	03/31/08	
Bromobenzene	EPA 8260B	8C31006	0.27	1.0	ND	1	03/31/08	03/31/08	
Bromochloromethane	EPA 8260B	8C31006	0.40	1.0	ND	1	03/31/08	03/31/08	
Bromodichloromethane	EPA 8260B	8C31006	0.30	1.0	ND	1	03/31/08	03/31/08	
Bromoform	EPA 8260B	8C31006	0.40	1.0	ND	1	03/31/08	03/31/08	
Bromomethane	EPA 8260B	8C31006	0.42	1.0	ND	1	03/31/08	03/31/08	
tert-Butanol (TBA)	EPA 8260B	8C31006	6.5	25	ND	1	03/31/08	03/31/08	
2-Butanone (MEK)	EPA 8260B	8C31006	4.7	5.0	ND	1	03/31/08	03/31/08	
tert-Butylbenzene	EPA 8260B	8C31006	0.22	1.0	ND	1	03/31/08	03/31/08	
n-Butylbenzene	EPA 8260B	8C31006	0.37	1.0	ND	1	03/31/08	03/31/08	
sec-Butylbenzene	EPA 8260B	8C31006	0.25	1.0	ND	1	03/31/08	03/31/08	
Carbon Disulfide	EPA 8260B	8C31006	0.48	1.0	ND	1	03/31/08	03/31/08	
Carbon tetrachloride	EPA 8260B	8C31006	0.28	0.50	ND	1	03/31/08	03/31/08	
Chlorobenzene	EPA 8260B	8C31006	0.36	1.0	ND	1	03/31/08	03/31/08	
Chloroethane	EPA 8260B	8C31006	0.40	2.0	ND	1	03/31/08	03/31/08	
Chloroform	EPA 8260B	8C31006	0.33	1.0	ND	1	03/31/08	03/31/08	
Chloromethane	EPA 8260B	8C31006	0.40	2.0	ND	1	03/31/08	03/31/08	
2-Chlorotoluene	EPA 8260B	8C31006	0.28	1.0	ND	1	03/31/08	03/31/08	
4-Chlorotoluene	EPA 8260B	8C31006	0.29	1.0	ND	1	03/31/08	03/31/08	
1,2-Dibromo-3-chloropropane	EPA 8260B	8C31006	0.97	2.0	ND	1	03/31/08	03/31/08	
Dibromochloromethane	EPA 8260B	8C31006	0.40	1.0	ND	1	03/31/08	03/31/08	
1,2-Dibromoethane (EDB)	EPA 8260B	8C31006	0.40	1.0	ND	1	03/31/08	03/31/08	
1,3-Dichlorobenzene	EPA 8260B	8C31006	0.35	1.0	ND	1	03/31/08	03/31/08	
1,4-Dichlorobenzene	EPA 8260B	8C31006	0.37	1.0	ND	1	03/31/08	03/31/08	
1,2-Dichlorobenzene	EPA 8260B	8C31006	0.32	1.0	ND	1	03/31/08	03/31/08	
Dichlorodifluoromethane	EPA 8260B	8C31006	0.26	1.0	ND	1	03/31/08	03/31/08	
1,1-Dichloroethane	EPA 8260B	8C31006	0.40	1.0	ND	1	03/31/08	03/31/08	
1,2-Dichloroethane	EPA 8260B	8C31006	0.28	0.50	ND	1	03/31/08	03/31/08	
cis-1,2-Dichloroethene	EPA 8260B	8C31006	0.32	1.0	ND	1	03/31/08	03/31/08	
1,1-Dichloroethene	EPA 8260B	8C31006	0.42	1.0	ND	1	03/31/08	03/31/08	
trans-1,2-Dichloroethene	EPA 8260B	8C31006	0.30	1.0	ND	1	03/31/08	03/31/08	
2,2-Dichloropropane	EPA 8260B	8C31006	0.34	1.0	ND	1	03/31/08	03/31/08	
1,2-Dichloropropane	EPA 8260B	8C31006	0.35	1.0	ND	1	03/31/08	03/31/08	
cis-1,3-Dichloropropene	EPA 8260B	8C31006	0.22	0.50	ND	1	03/31/08	03/31/08	
1,1-Dichloropropene	EPA 8260B	8C31006	0.28	1.0	ND	1	03/31/08	03/31/08	
trans-1,3-Dichloropropene	EPA 8260B	8C31006	0.32	0.50	ND	1	03/31/08	03/31/08	
Di-isopropyl Ether (DIPE)	EPA 8260B	8C31006	0.25	2.0	ND	1	03/31/08	03/31/08	
Ethylbenzene	EPA 8260B	8C31006	0.25	1.0	ND	1	03/31/08	03/31/08	
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	8C31006	0.28	2.0	ND	1	03/31/08	03/31/08	

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BOE-C6-0188700

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: IRC2059

Sampled: 03/26/08
Received: 03/26/08

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

Sample ID: IRC2059-01 (TB_AVO20080326_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	8C31006	0.38	1.0	ND	1	03/31/08	03/31/08	
2-Hexanone	EPA 8260B	8C31006	2.6	6.0	ND	1	03/31/08	03/31/08	
Iodomethane	EPA 8260B	8C31006	1.0	2.0	ND	1	03/31/08	03/31/08	
Isopropylbenzene	EPA 8260B	8C31006	0.25	1.0	ND	1	03/31/08	03/31/08	
p-Isopropyltoluene	EPA 8260B	8C31006	0.28	1.0	ND	1	03/31/08	03/31/08	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	8C31006	0.32	1.0	ND	1	03/31/08	03/31/08	
Methylene chloride	EPA 8260B	8C31006	0.95	1.0	ND	1	03/31/08	03/31/08	
4-Methyl-2-pentanone (MIBK)	EPA 8260B	8C31006	3.5	5.0	ND	1	03/31/08	03/31/08	
n-Propylbenzene	EPA 8260B	8C31006	0.27	1.0	ND	1	03/31/08	03/31/08	
Styrene	EPA 8260B	8C31006	0.20	1.0	ND	1	03/31/08	03/31/08	
1,1,1,2-Tetrachloroethane	EPA 8260B	8C31006	0.27	1.0	ND	1	03/31/08	03/31/08	
1,1,2,2-Tetrachloroethane	EPA 8260B	8C31006	0.30	1.0	ND	1	03/31/08	03/31/08	
Tetrachloroethene	EPA 8260B	8C31006	0.32	1.0	ND	1	03/31/08	03/31/08	
Tetrahydrofuran (THF)	EPA 8260B	8C31006	3.5	10	ND	1	03/31/08	03/31/08	
Toluene	EPA 8260B	8C31006	0.36	1.0	ND	1	03/31/08	03/31/08	
1,2,3-Trichlorobenzene	EPA 8260B	8C31006	0.30	1.0	ND	1	03/31/08	03/31/08	
1,2,4-Trichlorobenzene	EPA 8260B	8C31006	0.48	1.0	ND	1	03/31/08	03/31/08	
1,1,1-Trichloroethane	EPA 8260B	8C31006	0.30	1.0	ND	1	03/31/08	03/31/08	
1,1,2-Trichloroethane	EPA 8260B	8C31006	0.30	1.0	ND	1	03/31/08	03/31/08	
Trichloroethene	EPA 8260B	8C31006	0.26	1.0	ND	1	03/31/08	03/31/08	
Trichlorofluoromethane	EPA 8260B	8C31006	0.34	2.0	ND	1	03/31/08	03/31/08	
1,2,3-Trichloropropane	EPA 8260B	8C31006	0.40	1.0	ND	1	03/31/08	03/31/08	
1,3,5-Trimethylbenzene	EPA 8260B	8C31006	0.26	1.0	ND	1	03/31/08	03/31/08	
1,2,4-Trimethylbenzene	EPA 8260B	8C31006	0.23	1.0	ND	1	03/31/08	03/31/08	
Vinyl acetate	EPA 8260B	8C31006	1.0	6.0	ND	1	03/31/08	03/31/08	
Vinyl chloride	EPA 8260B	8C31006	0.40	0.50	ND	1	03/31/08	03/31/08	
o-Xylene	EPA 8260B	8C31006	0.30	0.50	ND	1	03/31/08	03/31/08	
Xylenes, Total	EPA 8260B	8C31006	0.90	1.0	ND	1	03/31/08	03/31/08	
m,p-Xylenes	EPA 8260B	8C31006	0.60	1.0	ND	1	03/31/08	03/31/08	
Surrogate: Dibromofluoromethane (80-120%)					*99 %*				
Surrogate: Toluene-d8 (80-120%)					*100 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)					*94 %*				

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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: IRC2059

Sampled: 03/26/08
Received: 03/26/08

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

Sample ID: IRC2059-02 (IRZCMW002_WG20080326_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	8C31006	18	40	ND	4	03/31/08	03/31/08	
tert-Amyl Methyl Ether (TAME)	EPA 8260B	8C31006	1.3	8.0	ND	4	03/31/08	03/31/08	
Benzene	EPA 8260B	8C31006	1.1	2.0	ND	4	03/31/08	03/31/08	
Bromobenzene	EPA 8260B	8C31006	1.1	4.0	ND	4	03/31/08	03/31/08	
Bromochloromethane	EPA 8260B	8C31006	1.6	4.0	ND	4	03/31/08	03/31/08	
Bromodichloromethane	EPA 8260B	8C31006	1.2	4.0	ND	4	03/31/08	03/31/08	
Bromoform	EPA 8260B	8C31006	1.6	4.0	ND	4	03/31/08	03/31/08	
Bromomethane	EPA 8260B	8C31006	1.7	4.0	ND	4	03/31/08	03/31/08	
tert-Butanol (TBA)	EPA 8260B	8C31006	26	100	ND	4	03/31/08	03/31/08	
2-Butanone (MEK)	EPA 8260B	8C31006	19	20	ND	4	03/31/08	03/31/08	
tert-Butylbenzene	EPA 8260B	8C31006	0.88	4.0	ND	4	03/31/08	03/31/08	
n-Butylbenzene	EPA 8260B	8C31006	1.5	4.0	ND	4	03/31/08	03/31/08	
sec-Butylbenzene	EPA 8260B	8C31006	1.0	4.0	ND	4	03/31/08	03/31/08	
Carbon Disulfide	EPA 8260B	8C31006	1.9	4.0	ND	4	03/31/08	03/31/08	
Carbon tetrachloride	EPA 8260B	8C31006	1.1	2.0	ND	4	03/31/08	03/31/08	
Chlorobenzene	EPA 8260B	8C31006	1.4	4.0	ND	4	03/31/08	03/31/08	
Chloroethane	EPA 8260B	8C31006	1.6	8.0	ND	4	03/31/08	03/31/08	
Chloroform	EPA 8260B	8C31006	1.3	4.0	ND	4	03/31/08	03/31/08	
Chloromethane	EPA 8260B	8C31006	1.6	8.0	ND	4	03/31/08	03/31/08	
2-Chlorotoluene	EPA 8260B	8C31006	1.1	4.0	ND	4	03/31/08	03/31/08	
4-Chlorotoluene	EPA 8260B	8C31006	1.2	4.0	ND	4	03/31/08	03/31/08	
1,2-Dibromo-3-chloropropane	EPA 8260B	8C31006	3.9	8.0	ND	4	03/31/08	03/31/08	
Dibromochloromethane	EPA 8260B	8C31006	1.6	4.0	ND	4	03/31/08	03/31/08	
1,2-Dibromoethane (EDB)	EPA 8260B	8C31006	1.6	4.0	ND	4	03/31/08	03/31/08	
1,3-Dichlorobenzene	EPA 8260B	8C31006	1.4	4.0	ND	4	03/31/08	03/31/08	
1,4-Dichlorobenzene	EPA 8260B	8C31006	1.5	4.0	ND	4	03/31/08	03/31/08	
1,2-Dichlorobenzene	EPA 8260B	8C31006	1.3	4.0	ND	4	03/31/08	03/31/08	
Dichlorodifluoromethane	EPA 8260B	8C31006	1.0	4.0	ND	4	03/31/08	03/31/08	
1,1-Dichloroethane	EPA 8260B	8C31006	1.6	4.0	ND	4	03/31/08	03/31/08	
1,2-Dichloroethane	EPA 8260B	8C31006	1.1	2.0	ND	4	03/31/08	03/31/08	
cis-1,2-Dichloroethene	EPA 8260B	8C31006	1.3	4.0	**19**	4	03/31/08	03/31/08	
1,1-Dichloroethene	EPA 8260B	8C31006	1.7	4.0	ND	4	03/31/08	03/31/08	
trans-1,2-Dichloroethene	EPA 8260B	8C31006	1.2	4.0	**10**	4	03/31/08	03/31/08	
2,2-Dichloropropane	EPA 8260B	8C31006	1.4	4.0	ND	4	03/31/08	03/31/08	
1,2-Dichloropropane	EPA 8260B	8C31006	1.4	4.0	ND	4	03/31/08	03/31/08	
cis-1,3-Dichloropropene	EPA 8260B	8C31006	0.88	2.0	ND	4	03/31/08	03/31/08	
1,1-Dichloropropene	EPA 8260B	8C31006	1.1	4.0	ND	4	03/31/08	03/31/08	
trans-1,3-Dichloropropene	EPA 8260B	8C31006	1.3	2.0	ND	4	03/31/08	03/31/08	
Di-isopropyl Ether (DIPE)	EPA 8260B	8C31006	1.0	8.0	ND	4	03/31/08	03/31/08	
Ethylbenzene	EPA 8260B	8C31006	1.0	4.0	ND	4	03/31/08	03/31/08	
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	8C31006	1.1	8.0	ND	4	03/31/08	03/31/08	

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BOE-C6-0188701

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: IRC2059

Sampled: 03/26/08
Received: 03/26/08

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: IRC2059-02 (IRZCMW002_WG20080326_01 - Water) - cont.									
Reporting Units: ug/l									
Hexachlorobutadiene	EPA 8260B	8C31006	1.5	4.0	ND	4	03/31/08	03/31/08	
2-Hexanone	EPA 8260B	8C31006	10	24	ND	4	03/31/08	03/31/08	
Iodomethane	EPA 8260B	8C31006	4.0	8.0	ND	4	03/31/08	03/31/08	
Isopropylbenzene	EPA 8260B	8C31006	1.0	4.0	ND	4	03/31/08	03/31/08	
p-Isopropyltoluene	EPA 8260B	8C31006	1.1	4.0	ND	4	03/31/08	03/31/08	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	8C31006	1.3	4.0	ND	4	03/31/08	03/31/08	
Methylene chloride	EPA 8260B	8C31006	3.8	4.0	ND	4	03/31/08	03/31/08	
4-Methyl-2-pentanone (MIBK)	EPA 8260B	8C31006	14	20	ND	4	03/31/08	03/31/08	
n-Propylbenzene	EPA 8260B	8C31006	1.1	4.0	ND	4	03/31/08	03/31/08	
Styrene	EPA 8260B	8C31006	0.80	4.0	ND	4	03/31/08	03/31/08	
1,1,1,2-Tetrachloroethane	EPA 8260B	8C31006	1.1	4.0	ND	4	03/31/08	03/31/08	
1,1,2,2-Tetrachloroethane	EPA 8260B	8C31006	1.2	4.0	ND	4	03/31/08	03/31/08	
Tetrachloroethene	EPA 8260B	8C31006	1.3	4.0	ND	4	03/31/08	03/31/08	
Tetrahydrofuran (THF)	EPA 8260B	8C31006	14	40	ND	4	03/31/08	03/31/08	
Toluene	EPA 8260B	8C31006	1.4	4.0	ND	4	03/31/08	03/31/08	
1,2,3-Trichlorobenzene	EPA 8260B	8C31006	1.2	4.0	ND	4	03/31/08	03/31/08	
1,2,4-Trichlorobenzene	EPA 8260B	8C31006	1.9	4.0	ND	4	03/31/08	03/31/08	
1,1,1-Trichloroethane	EPA 8260B	8C31006	1.2	4.0	ND	4	03/31/08	03/31/08	
1,1,2-Trichloroethane	EPA 8260B	8C31006	1.2	4.0	ND	4	03/31/08	03/31/08	
Trichloroethene	EPA 8260B	8C31006	1.0	4.0	**1.2**	4	03/31/08	03/31/08	Ja
Trichlorofluoromethane	EPA 8260B	8C31006	1.4	8.0	ND	4	03/31/08	03/31/08	
1,2,3-Trichloropropane	EPA 8260B	8C31006	1.6	4.0	ND	4	03/31/08	03/31/08	
1,3,5-Trimethylbenzene	EPA 8260B	8C31006	1.0	4.0	ND	4	03/31/08	03/31/08	
1,2,4-Trimethylbenzene	EPA 8260B	8C31006	0.92	4.0	ND	4	03/31/08	03/31/08	
Vinyl acetate	EPA 8260B	8C31006	4.0	24	ND	4	03/31/08	03/31/08	
o-Xylene	EPA 8260B	8C31006	1.2	2.0	ND	4	03/31/08	03/31/08	
Xylenes, Total	EPA 8260B	8C31006	3.6	4.0	ND	4	03/31/08	03/31/08	
m,p-Xylenes	EPA 8260B	8C31006	2.4	4.0	ND	4	03/31/08	03/31/08	
Surrogate: Dibromofluoromethane (80-120%)					*99 %*				
Surrogate: Toluene-d8 (80-120%)					*98 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)					*94 %*				

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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: IRC2059

Sampled: 03/26/08
Received: 03/26/08

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: IRC2059-02RE1 (IRZCMW002_WG20080326_01 - Water) - cont.									
Reporting Units: ug/l									
Vinyl chloride	EPA 8260B	8C31006	8.0	10	**1700**	20	03/31/08	03/31/08	
Surrogate: Dibromofluoromethane (80-120%)					*100 %*				
Surrogate: Toluene-d8 (80-120%)					*101 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)					*92 %*				

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Project Manager

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BOE-C6-0188702

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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: IRC2059

Sampled: 03/26/08
Received: 03/26/08

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

Sample ID: IRC2059-03 (CMW026_WG20080326_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	8C31006	18	40	ND	4	03/31/08	03/31/08	
tert-Amyl Methyl Ether (TAME)	EPA 8260B	8C31006	1.3	8.0	ND	4	03/31/08	03/31/08	
Benzene	EPA 8260B	8C31006	1.1	2.0	ND	4	03/31/08	03/31/08	
Bromobenzene	EPA 8260B	8C31006	1.1	4.0	ND	4	03/31/08	03/31/08	
Bromochloromethane	EPA 8260B	8C31006	1.6	4.0	ND	4	03/31/08	03/31/08	
Bromodichloromethane	EPA 8260B	8C31006	1.2	4.0	ND	4	03/31/08	03/31/08	
Bromoform	EPA 8260B	8C31006	1.6	4.0	ND	4	03/31/08	03/31/08	
Bromomethane	EPA 8260B	8C31006	1.7	4.0	ND	4	03/31/08	03/31/08	
tert-Butanol (TBA)	EPA 8260B	8C31006	26	100	ND	4	03/31/08	03/31/08	
2-Butanone (MEK)	EPA 8260B	8C31006	19	20	ND	4	03/31/08	03/31/08	
tert-Butylbenzene	EPA 8260B	8C31006	0.88	4.0	ND	4	03/31/08	03/31/08	
n-Butylbenzene	EPA 8260B	8C31006	1.5	4.0	ND	4	03/31/08	03/31/08	
sec-Butylbenzene	EPA 8260B	8C31006	1.0	4.0	ND	4	03/31/08	03/31/08	
Carbon Disulfide	EPA 8260B	8C31006	1.9	4.0	ND	4	03/31/08	03/31/08	
Carbon tetrachloride	EPA 8260B	8C31006	1.1	2.0	ND	4	03/31/08	03/31/08	
Chlorobenzene	EPA 8260B	8C31006	1.4	4.0	ND	4	03/31/08	03/31/08	
Chloroethane	EPA 8260B	8C31006	1.6	8.0	ND	4	03/31/08	03/31/08	
Chloroform	EPA 8260B	8C31006	1.3	4.0	ND	4	03/31/08	03/31/08	
Chloromethane	EPA 8260B	8C31006	1.6	8.0	ND	4	03/31/08	03/31/08	
2-Chlorotoluene	EPA 8260B	8C31006	1.1	4.0	ND	4	03/31/08	03/31/08	
4-Chlorotoluene	EPA 8260B	8C31006	1.2	4.0	ND	4	03/31/08	03/31/08	
1,2-Dibromo-3-chloropropane	EPA 8260B	8C31006	3.9	8.0	ND	4	03/31/08	03/31/08	
Dibromochloromethane	EPA 8260B	8C31006	1.6	4.0	ND	4	03/31/08	03/31/08	
1,2-Dibromoethane (EDB)	EPA 8260B	8C31006	1.6	4.0	ND	4	03/31/08	03/31/08	
1,3-Dichlorobenzene	EPA 8260B	8C31006	1.4	4.0	ND	4	03/31/08	03/31/08	
1,4-Dichlorobenzene	EPA 8260B	8C31006	1.5	4.0	ND	4	03/31/08	03/31/08	
1,2-Dichlorobenzene	EPA 8260B	8C31006	1.3	4.0	ND	4	03/31/08	03/31/08	
Dichlorodifluoromethane	EPA 8260B	8C31006	1.0	4.0	ND	4	03/31/08	03/31/08	
1,1-Dichloroethane	EPA 8260B	8C31006	1.6	4.0	**4.4**	4	03/31/08	03/31/08	
1,2-Dichloroethane	EPA 8260B	8C31006	1.1	2.0	ND	4	03/31/08	03/31/08	
cis-1,2-Dichloroethene	EPA 8260B	8C31006	1.3	4.0	**44**	4	03/31/08	03/31/08	
1,1-Dichloroethene	EPA 8260B	8C31006	1.7	4.0	**5.3**	4	03/31/08	03/31/08	
trans-1,2-Dichloroethene	EPA 8260B	8C31006	1.2	4.0	**4.6**	4	03/31/08	03/31/08	
2,2-Dichloropropane	EPA 8260B	8C31006	1.4	4.0	ND	4	03/31/08	03/31/08	
1,2-Dichloropropane	EPA 8260B	8C31006	1.4	4.0	ND	4	03/31/08	03/31/08	
cis-1,3-Dichloropropene	EPA 8260B	8C31006	0.88	2.0	ND	4	03/31/08	03/31/08	
1,1-Dichloropropene	EPA 8260B	8C31006	1.1	4.0	ND	4	03/31/08	03/31/08	
trans-1,3-Dichloropropene	EPA 8260B	8C31006	1.3	2.0	ND	4	03/31/08	03/31/08	
Di-isopropyl Ether (DIPE)	EPA 8260B	8C31006	1.0	8.0	ND	4	03/31/08	03/31/08	
Ethylbenzene	EPA 8260B	8C31006	1.0	4.0	ND	4	03/31/08	03/31/08	
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	8C31006	1.1	8.0	ND	4	03/31/08	03/31/08	

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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: IRC2059

Sampled: 03/26/08
Received: 03/26/08

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

Sample ID: IRC2059-03 (CMW026_WG20080326_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	8C31006	1.5	4.0	ND	4	03/31/08	03/31/08	
2-Hexanone	EPA 8260B	8C31006	10	24	ND	4	03/31/08	03/31/08	
Iodomethane	EPA 8260B	8C31006	4.0	8.0	ND	4	03/31/08	03/31/08	
Isopropylbenzene	EPA 8260B	8C31006	1.0	4.0	ND	4	03/31/08	03/31/08	
p-Isopropyltoluene	EPA 8260B	8C31006	1.1	4.0	ND	4	03/31/08	03/31/08	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	8C31006	1.3	4.0	ND	4	03/31/08	03/31/08	
Methylene chloride	EPA 8260B	8C31006	3.8	4.0	ND	4	03/31/08	03/31/08	
4-Methyl-2-pentanone (MIBK)	EPA 8260B	8C31006	14	20	ND	4	03/31/08	03/31/08	
n-Propylbenzene	EPA 8260B	8C31006	1.1	4.0	ND	4	03/31/08	03/31/08	
Styrene	EPA 8260B	8C31006	0.80	4.0	ND	4	03/31/08	03/31/08	
1,1,1,2-Tetrachloroethane	EPA 8260B	8C31006	1.1	4.0	ND	4	03/31/08	03/31/08	
1,1,2,2-Tetrachloroethane	EPA 8260B	8C31006	1.2	4.0	ND	4	03/31/08	03/31/08	
Tetrachloroethene	EPA 8260B	8C31006	1.3	4.0	ND	4	03/31/08	03/31/08	
Tetrahydrofuran (THF)	EPA 8260B	8C31006	14	40	ND	4	03/31/08	03/31/08	
Toluene	EPA 8260B	8C31006	1.4	4.0	**1.8**	4	03/31/08	03/31/08	Ja
1,2,3-Trichlorobenzene	EPA 8260B	8C31006	1.2	4.0	ND	4	03/31/08	03/31/08	
1,2,4-Trichlorobenzene	EPA 8260B	8C31006	1.9	4.0	ND	4	03/31/08	03/31/08	
1,1,1-Trichloroethane	EPA 8260B	8C31006	1.2	4.0	ND	4	03/31/08	03/31/08	
1,1,2-Trichloroethane	EPA 8260B	8C31006	1.2	4.0	ND	4	03/31/08	03/31/08	
Trichloroethene	EPA 8260B	8C31006	1.0	4.0	**4.5**	4	03/31/08	03/31/08	
Trichlorofluoromethane	EPA 8260B	8C31006	1.4	8.0	ND	4	03/31/08	03/31/08	
1,2,3-Trichloropropane	EPA 8260B	8C31006	1.6	4.0	ND	4	03/31/08	03/31/08	
1,3,5-Trimethylbenzene	EPA 8260B	8C31006	1.0	4.0	ND	4	03/31/08	03/31/08	
1,2,4-Trimethylbenzene	EPA 8260B	8C31006	0.92	4.0	ND	4	03/31/08	03/31/08	
Vinyl acetate	EPA 8260B	8C31006	4.0	24	ND	4	03/31/08	03/31/08	
o-Xylene	EPA 8260B	8C31006	1.2	2.0	ND	4	03/31/08	03/31/08	
Xylenes, Total	EPA 8260B	8C31006	3.6	4.0	ND	4	03/31/08	03/31/08	
m,p-Xylenes	EPA 8260B	8C31006	2.4	4.0	ND	4	03/31/08	03/31/08	
Surrogate: Dibromofluoromethane (80-120%)					*101 %*				
Surrogate: Toluene-d8 (80-120%)					*98 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)					*94 %*				

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Project Manager

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BOE-C6-0188703

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Attention: Michael Rendina

Project ID: Boeing C-6 Torrance (02/26/08)
1155.006
Report Number: IRC2059

Sampled: 03/26/08
Received: 03/26/08

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: IRC2059-03RE1 (CMW026_WG20080326_01 - Water) - cont.									
Reporting Units: ug/l									
Vinyl chloride	EPA 8260B	8C31006	8.0	10	**1200**	20	03/31/08	03/31/08	
Surrogate: Dibromofluoromethane (80-120%)					*99 %*				
Surrogate: Toluene-d8 (80-120%)					*99 %*				
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: IRC2059

Sampled: 03/26/08
Received: 03/26/08

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: IRC2059-04 (IRZCMW003_WG20080326_01 - Water)									
Reporting Units: ug/l									
Acetone	EPA 8260B	8C31006	90	200	ND	20	03/31/08	03/31/08	
tert-Amyl Methyl Ether (TAME)	EPA 8260B	8C31006	6.6	40	ND	20	03/31/08	03/31/08	
Benzene	EPA 8260B	8C31006	5.6	10	ND	20	03/31/08	03/31/08	
Bromobenzene	EPA 8260B	8C31006	5.4	20	ND	20	03/31/08	03/31/08	
Bromochloromethane	EPA 8260B	8C31006	8.0	20	ND	20	03/31/08	03/31/08	
Bromodichloromethane	EPA 8260B	8C31006	6.0	20	ND	20	03/31/08	03/31/08	
Bromoform	EPA 8260B	8C31006	8.0	20	ND	20	03/31/08	03/31/08	
Bromomethane	EPA 8260B	8C31006	8.4	20	ND	20	03/31/08	03/31/08	
tert-Butanol (TBA)	EPA 8260B	8C31006	130	500	ND	20	03/31/08	03/31/08	
2-Butanone (MEK)	EPA 8260B	8C31006	94	100	ND	20	03/31/08	03/31/08	
tert-Butylbenzene	EPA 8260B	8C31006	4.4	20	ND	20	03/31/08	03/31/08	
n-Butylbenzene	EPA 8260B	8C31006	7.4	20	ND	20	03/31/08	03/31/08	
sec-Butylbenzene	EPA 8260B	8C31006	5.0	20	ND	20	03/31/08	03/31/08	
Carbon Disulfide	EPA 8260B	8C31006	9.6	20	ND	20	03/31/08	03/31/08	
Carbon tetrachloride	EPA 8260B	8C31006	5.6	10	ND	20	03/31/08	03/31/08	
Chlorobenzene	EPA 8260B	8C31006	7.2	20	ND	20	03/31/08	03/31/08	
Chloroethane	EPA 8260B	8C31006	8.0	40	ND	20	03/31/08	03/31/08	
Chloroform	EPA 8260B	8C31006	6.6	20	**8.8**	20	03/31/08	03/31/08	Ja
Chloromethane	EPA 8260B	8C31006	8.0	40	ND	20	03/31/08	03/31/08	
2-Chlorotoluene	EPA 8260B	8C31006	5.6	20	ND	20	03/31/08	03/31/08	
4-Chlorotoluene	EPA 8260B	8C31006	5.8	20	ND	20	03/31/08	03/31/08	
1,2-Dibromo-3-chloropropane	EPA 8260B	8C31006	19	40	ND	20	03/31/08	03/31/08	
Dibromochloromethane	EPA 8260B	8C31006	8.0	20	ND	20	03/31/08	03/31/08	
1,2-Dibromoethane (EDB)	EPA 8260B	8C31006	8.0	20	ND	20	03/31/08	03/31/08	
1,3-Dichlorobenzene	EPA 8260B	8C31006	7.0	20	ND	20	03/31/08	03/31/08	
1,4-Dichlorobenzene	EPA 8260B	8C31006	7.4	20	ND	20	03/31/08	03/31/08	
1,2-Dichlorobenzene	EPA 8260B	8C31006	6.4	20	ND	20	03/31/08	03/31/08	
Dichlorodifluoromethane	EPA 8260B	8C31006	5.2	20	ND	20	03/31/08	03/31/08	
1,1-Dichloroethane	EPA 8260B	8C31006	8.0	20	ND	20	03/31/08	03/31/08	
1,2-Dichloroethane	EPA 8260B	8C31006	5.6	10	ND	20	03/31/08	03/31/08	
cis-1,2-Dichloroethene	EPA 8260B	8C31006	6.4	20	**890**	20	03/31/08	03/31/08	
1,1-Dichloroethene	EPA 8260B	8C31006	8.4	20	**40**	20	03/31/08	03/31/08	
trans-1,2-Dichloroethene	EPA 8260B	8C31006	6.0	20	ND	20	03/31/08	03/31/08	
2,2-Dichloropropane	EPA 8260B	8C31006	6.8	20	ND	20	03/31/08	03/31/08	
1,2-Dichloropropane	EPA 8260B	8C31006	7.0	20	ND	20	03/31/08	03/31/08	
cis-1,3-Dichloropropene	EPA 8260B	8C31006	4.4	10	ND	20	03/31/08	03/31/08	
1,1-Dichloropropene	EPA 8260B	8C31006	5.6	20	ND	20	03/31/08	03/31/08	
trans-1,3-Dichloropropene	EPA 8260B	8C31006	6.4	10	ND	20	03/31/08	03/31/08	
Di-isopropyl Ether (DIPE)	EPA 8260B	8C31006	5.0	40	ND	20	03/31/08	03/31/08	
Ethylbenzene	EPA 8260B	8C31006	5.0	20	ND	20	03/31/08	03/31/08	
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	8C31006	5.6	40	**10**	20	03/31/08	03/31/08	Ja

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Project Manager

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BOE-C6-0188704

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Project ID: Boeing C-6 Torrance (02/26/08)
1155.006
Report Number: IRC2059

Sampled: 03/26/08
Received: 03/26/08

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: IRC2059-04 (IRZCMW003_WG20080326_01 - Water) - cont.									
Reporting Units: ug/l									
Hexachlorobutadiene	EPA 8260B	8C31006	7.6	20	ND	20	03/31/08	03/31/08	
2-Hexanone	EPA 8260B	8C31006	52	120	ND	20	03/31/08	03/31/08	
Iodomethane	EPA 8260B	8C31006	20	40	ND	20	03/31/08	03/31/08	
Isopropylbenzene	EPA 8260B	8C31006	5.0	20	ND	20	03/31/08	03/31/08	
p-Isopropyltoluene	EPA 8260B	8C31006	5.6	20	ND	20	03/31/08	03/31/08	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	8C31006	6.4	20	ND	20	03/31/08	03/31/08	
Methylene chloride	EPA 8260B	8C31006	19	20	ND	20	03/31/08	03/31/08	
4-Methyl-2-pentanone (MIBK)	EPA 8260B	8C31006	70	100	ND	20	03/31/08	03/31/08	
n-Propylbenzene	EPA 8260B	8C31006	5.4	20	ND	20	03/31/08	03/31/08	
Styrene	EPA 8260B	8C31006	4.0	20	ND	20	03/31/08	03/31/08	
1,1,1,2-Tetrachloroethane	EPA 8260B	8C31006	5.4	20	ND	20	03/31/08	03/31/08	
1,1,2,2-Tetrachloroethane	EPA 8260B	8C31006	6.0	20	ND	20	03/31/08	03/31/08	
Tetrachloroethene	EPA 8260B	8C31006	6.4	20	ND	20	03/31/08	03/31/08	
Tetrahydrofuran (THF)	EPA 8260B	8C31006	70	200	ND	20	03/31/08	03/31/08	
Toluene	EPA 8260B	8C31006	7.2	20	ND	20	03/31/08	03/31/08	
1,2,3-Trichlorobenzene	EPA 8260B	8C31006	6.0	20	ND	20	03/31/08	03/31/08	
1,2,4-Trichlorobenzene	EPA 8260B	8C31006	9.6	20	ND	20	03/31/08	03/31/08	
1,1,1-Trichloroethane	EPA 8260B	8C31006	6.0	20	ND	20	03/31/08	03/31/08	
1,1,2-Trichloroethane	EPA 8260B	8C31006	6.0	20	ND	20	03/31/08	03/31/08	
Trichlorofluoromethane	EPA 8260B	8C31006	6.8	40	ND	20	03/31/08	03/31/08	
1,2,3-Trichloropropane	EPA 8260B	8C31006	8.0	20	ND	20	03/31/08	03/31/08	
1,3,5-Trimethylbenzene	EPA 8260B	8C31006	5.2	20	ND	20	03/31/08	03/31/08	
1,2,4-Trimethylbenzene	EPA 8260B	8C31006	4.6	20	ND	20	03/31/08	03/31/08	
Vinyl acetate	EPA 8260B	8C31006	20	120	ND	20	03/31/08	03/31/08	
Vinyl chloride	EPA 8260B	8C31006	8.0	10	**360**	20	03/31/08	03/31/08	
o-Xylene	EPA 8260B	8C31006	6.0	10	ND	20	03/31/08	03/31/08	
Xylenes, Total	EPA 8260B	8C31006	18	20	ND	20	03/31/08	03/31/08	
m,p-Xylenes	EPA 8260B	8C31006	12	20	ND	20	03/31/08	03/31/08	
Surrogate: Dibromofluoromethane (80-120%)					*100 %*				
Surrogate: Toluene-d8 (80-120%)					*101 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)					*95 %*				

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Trupti Mistry
Project Manager

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Attention: Michael Rendina

Project ID: Boeing C-6 Torrance (02/26/08)
1155.006
Report Number: IRC2059

Sampled: 03/26/08
Received: 03/26/08

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: IRC2059-04RE1 (IRZCMW003_WG20080326_01 - Water) - cont.									
Reporting Units: ug/l									
Trichloroethene	EPA 8260B	8C31006	26	100	**6500**	100	03/31/08	03/31/08	
Surrogate: Dibromofluoromethane (80-120%)					*100 %*				
Surrogate: Toluene-d8 (80-120%)					*99 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)					*95 %*				

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Project Manager

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BOE-C6-0188705

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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: IRC2059

Sampled: 03/26/08
Received: 03/26/08

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: IRC2059-05 (IRZCMW001_WG20080326_01 - Water)									
Reporting Units: ug/l									
Acetone	EPA 8260B	8C31006	18	40	ND	4	03/31/08	03/31/08	
tert-Amyl Methyl Ether (TAME)	EPA 8260B	8C31006	1.3	8.0	ND	4	03/31/08	03/31/08	
Benzene	EPA 8260B	8C31006	1.1	2.0	ND	4	03/31/08	03/31/08	
Bromobenzene	EPA 8260B	8C31006	1.1	4.0	ND	4	03/31/08	03/31/08	
Bromochloromethane	EPA 8260B	8C31006	1.6	4.0	ND	4	03/31/08	03/31/08	
Bromodichloromethane	EPA 8260B	8C31006	1.2	4.0	ND	4	03/31/08	03/31/08	
Bromoform	EPA 8260B	8C31006	1.6	4.0	ND	4	03/31/08	03/31/08	
Bromomethane	EPA 8260B	8C31006	1.7	4.0	ND	4	03/31/08	03/31/08	
tert-Butanol (TBA)	EPA 8260B	8C31006	26	100	ND	4	03/31/08	03/31/08	
2-Butanone (MEK)	EPA 8260B	8C31006	19	20	ND	4	03/31/08	03/31/08	
tert-Butylbenzene	EPA 8260B	8C31006	0.88	4.0	ND	4	03/31/08	03/31/08	
n-Butylbenzene	EPA 8260B	8C31006	1.5	4.0	ND	4	03/31/08	03/31/08	
sec-Butylbenzene	EPA 8260B	8C31006	1.0	4.0	ND	4	03/31/08	03/31/08	
Carbon Disulfide	EPA 8260B	8C31006	1.9	4.0	ND	4	03/31/08	03/31/08	
Carbon tetrachloride	EPA 8260B	8C31006	1.1	2.0	ND	4	03/31/08	03/31/08	
Chlorobenzene	EPA 8260B	8C31006	1.4	4.0	ND	4	03/31/08	03/31/08	
Chloroethane	EPA 8260B	8C31006	1.6	8.0	ND	4	03/31/08	03/31/08	
Chloroform	EPA 8260B	8C31006	1.3	4.0	**27**	4	03/31/08	03/31/08	
Chloromethane	EPA 8260B	8C31006	1.6	8.0	ND	4	03/31/08	03/31/08	
2-Chlorotoluene	EPA 8260B	8C31006	1.1	4.0	ND	4	03/31/08	03/31/08	
4-Chlorotoluene	EPA 8260B	8C31006	1.2	4.0	ND	4	03/31/08	03/31/08	
1,2-Dibromo-3-chloropropane	EPA 8260B	8C31006	3.9	8.0	ND	4	03/31/08	03/31/08	
Dibromochloromethane	EPA 8260B	8C31006	1.6	4.0	ND	4	03/31/08	03/31/08	
1,2-Dibromoethane (EDB)	EPA 8260B	8C31006	1.6	4.0	ND	4	03/31/08	03/31/08	
1,3-Dichlorobenzene	EPA 8260B	8C31006	1.4	4.0	ND	4	03/31/08	03/31/08	
1,4-Dichlorobenzene	EPA 8260B	8C31006	1.5	4.0	ND	4	03/31/08	03/31/08	
1,2-Dichlorobenzene	EPA 8260B	8C31006	1.3	4.0	ND	4	03/31/08	03/31/08	
Dichlorodifluoromethane	EPA 8260B	8C31006	1.0	4.0	ND	4	03/31/08	03/31/08	
1,1-Dichloroethane	EPA 8260B	8C31006	1.6	4.0	**18**	4	03/31/08	03/31/08	
1,2-Dichloroethane	EPA 8260B	8C31006	1.1	2.0	**16**	4	03/31/08	03/31/08	
cis-1,2-Dichloroethene	EPA 8260B	8C31006	1.3	4.0	**35**	4	03/31/08	03/31/08	
1,1-Dichloroethene	EPA 8260B	8C31006	1.7	4.0	**400**	4	03/31/08	03/31/08	
trans-1,2-Dichloroethene	EPA 8260B	8C31006	1.2	4.0	**19**	4	03/31/08	03/31/08	
2,2-Dichloropropane	EPA 8260B	8C31006	1.4	4.0	ND	4	03/31/08	03/31/08	
1,2-Dichloropropane	EPA 8260B	8C31006	1.4	4.0	ND	4	03/31/08	03/31/08	
cis-1,3-Dichloropropene	EPA 8260B	8C31006	0.88	2.0	ND	4	03/31/08	03/31/08	
1,1-Dichloropropene	EPA 8260B	8C31006	1.1	4.0	ND	4	03/31/08	03/31/08	
trans-1,3-Dichloropropene	EPA 8260B	8C31006	1.3	2.0	ND	4	03/31/08	03/31/08	
Di-isopropyl Ether (DIPE)	EPA 8260B	8C31006	1.0	8.0	**1.7**	4	03/31/08	03/31/08	Ja
Ethylbenzene	EPA 8260B	8C31006	1.0	4.0	ND	4	03/31/08	03/31/08	
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	8C31006	1.1	8.0	ND	4	03/31/08	03/31/08	

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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: IRC2059

Sampled: 03/26/08
Received: 03/26/08

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: IRC2059-05 (IRZCMW001_WG20080326_01 - Water) - cont.									
Reporting Units: ug/l									
Hexachlorobutadiene	EPA 8260B	8C31006	1.5	4.0	ND	4	03/31/08	03/31/08	
2-Hexanone	EPA 8260B	8C31006	10	24	ND	4	03/31/08	03/31/08	
Iodomethane	EPA 8260B	8C31006	4.0	8.0	ND	4	03/31/08	03/31/08	
Isopropylbenzene	EPA 8260B	8C31006	1.0	4.0	ND	4	03/31/08	03/31/08	
p-Isopropyltoluene	EPA 8260B	8C31006	1.1	4.0	ND	4	03/31/08	03/31/08	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	8C31006	1.3	4.0	ND	4	03/31/08	03/31/08	
Methylene chloride	EPA 8260B	8C31006	3.8	4.0	ND	4	03/31/08	03/31/08	
4-Methyl-2-pentanone (MIBK)	EPA 8260B	8C31006	14	20	ND	4	03/31/08	03/31/08	
n-Propylbenzene	EPA 8260B	8C31006	1.1	4.0	ND	4	03/31/08	03/31/08	
Styrene	EPA 8260B	8C31006	0.80	4.0	ND	4	03/31/08	03/31/08	
1,1,1,2-Tetrachloroethane	EPA 8260B	8C31006	1.1	4.0	ND	4	03/31/08	03/31/08	
1,1,2,2-Tetrachloroethane	EPA 8260B	8C31006	1.2	4.0	ND	4	03/31/08	03/31/08	
Tetrachloroethene	EPA 8260B	8C31006	1.3	4.0	ND	4	03/31/08	03/31/08	
Tetrahydrofuran (THF)	EPA 8260B	8C31006	14	40	ND	4	03/31/08	03/31/08	
Toluene	EPA 8260B	8C31006	1.4	4.0	ND	4	03/31/08	03/31/08	
1,2,3-Trichlorobenzene	EPA 8260B	8C31006	1.2	4.0	ND	4	03/31/08	03/31/08	
1,2,4-Trichlorobenzene	EPA 8260B	8C31006	1.9	4.0	ND	4	03/31/08	03/31/08	
1,1,1-Trichloroethane	EPA 8260B	8C31006	1.2	4.0	ND	4	03/31/08	03/31/08	
1,1,2-Trichloroethane	EPA 8260B	8C31006	1.2	4.0	**13**	4	03/31/08	03/31/08	
Trichlorofluoromethane	EPA 8260B	8C31006	1.4	8.0	ND	4	03/31/08	03/31/08	
1,2,3-Trichloropropane	EPA 8260B	8C31006	1.6	4.0	ND	4	03/31/08	03/31/08	
1,3,5-Trimethylbenzene	EPA 8260B	8C31006	1.0	4.0	ND	4	03/31/08	03/31/08	
1,2,4-Trimethylbenzene	EPA 8260B	8C31006	0.92	4.0	ND	4	03/31/08	03/31/08	
Vinyl acetate	EPA 8260B	8C31006	4.0	24	ND	4	03/31/08	03/31/08	
Vinyl chloride	EPA 8260B	8C31006	1.6	2.0	ND	4	03/31/08	03/31/08	
o-Xylene	EPA 8260B	8C31006	1.2	2.0	ND	4	03/31/08	03/31/08	
Xylenes, Total	EPA 8260B	8C31006	3.6	4.0	ND	4	03/31/08	03/31/08	
m,p-Xylenes	EPA 8260B	8C31006	2.4	4.0	ND	4	03/31/08	03/31/08	
Surrogate: Dibromofluoromethane (80-120%)					*100 %*				
Surrogate: Toluene-d8 (80-120%)					*100 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)					*92 %*				

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BOE-C6-0188706

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Project ID: Boeing C-6 Torrance (02/26/08)
1155.006
Report Number: IRC2059

Sampled: 03/26/08
Received: 03/26/08

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: IRC2059-05RE1 (IRZCMW001_WG20080326_01 - Water) - cont.									
Reporting Units: ug/l									
Trichloroethene	EPA 8260B	8C31006	5.2	20	**1100**	20	03/31/08	03/31/08	
Surrogate: Dibromofluoromethane (80-120%)					*100 %*				
Surrogate: Toluene-d8 (80-120%)					*102 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)					*98 %*				

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Project ID: Boeing C-6 Torrance (02/26/08)
1155.006
Report Number: IRC2059

Sampled: 03/26/08
Received: 03/26/08

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: IRC2059-06 (MWC024_WG20080326_01 - Water)									
Reporting Units: ug/l									
Acetone	EPA 8260B	8C31006	45	100	ND	10	03/31/08	03/31/08	
tert-Amyl Methyl Ether (TAME)	EPA 8260B	8C31006	3.3	20	ND	10	03/31/08	03/31/08	
Benzene	EPA 8260B	8C31006	2.8	5.0	ND	10	03/31/08	03/31/08	
Bromobenzene	EPA 8260B	8C31006	2.7	10	ND	10	03/31/08	03/31/08	
Bromochloromethane	EPA 8260B	8C31006	4.0	10	ND	10	03/31/08	03/31/08	
Bromodichloromethane	EPA 8260B	8C31006	3.0	10	ND	10	03/31/08	03/31/08	
Bromoform	EPA 8260B	8C31006	4.0	10	ND	10	03/31/08	03/31/08	
Bromomethane	EPA 8260B	8C31006	4.2	10	ND	10	03/31/08	03/31/08	
tert-Butanol (TBA)	EPA 8260B	8C31006	65	250	ND	10	03/31/08	03/31/08	
2-Butanone (MEK)	EPA 8260B	8C31006	47	50	ND	10	03/31/08	03/31/08	
tert-Butylbenzene	EPA 8260B	8C31006	2.2	10	ND	10	03/31/08	03/31/08	
n-Butylbenzene	EPA 8260B	8C31006	3.7	10	ND	10	03/31/08	03/31/08	
sec-Butylbenzene	EPA 8260B	8C31006	2.5	10	ND	10	03/31/08	03/31/08	
Carbon Disulfide	EPA 8260B	8C31006	4.8	10	ND	10	03/31/08	03/31/08	
Carbon tetrachloride	EPA 8260B	8C31006	2.8	5.0	ND	10	03/31/08	03/31/08	
Chlorobenzene	EPA 8260B	8C31006	3.6	10	ND	10	03/31/08	03/31/08	
Chloroethane	EPA 8260B	8C31006	4.0	20	ND	10	03/31/08	03/31/08	
Chloroform	EPA 8260B	8C31006	3.3	10	**220**	10	03/31/08	03/31/08	
Chloromethane	EPA 8260B	8C31006	4.0	20	ND	10	03/31/08	03/31/08	
2-Chlorotoluene	EPA 8260B	8C31006	2.8	10	ND	10	03/31/08	03/31/08	
4-Chlorotoluene	EPA 8260B	8C31006	2.9	10	ND	10	03/31/08	03/31/08	
1,2-Dibromo-3-chloropropane	EPA 8260B	8C31006	9.7	20	ND	10	03/31/08	03/31/08	
Dibromochloromethane	EPA 8260B	8C31006	4.0	10	ND	10	03/31/08	03/31/08	
1,2-Dibromoethane (EDB)	EPA 8260B	8C31006	4.0	10	ND	10	03/31/08	03/31/08	
1,3-Dichlorobenzene	EPA 8260B	8C31006	3.5	10	ND	10	03/31/08	03/31/08	
1,4-Dichlorobenzene	EPA 8260B	8C31006	3.7	10	ND	10	03/31/08	03/31/08	
1,2-Dichlorobenzene	EPA 8260B	8C31006	3.2	10	ND	10	03/31/08	03/31/08	
Dichlorodifluoromethane	EPA 8260B	8C31006	2.6	10	ND	10	03/31/08	03/31/08	
1,1-Dichloroethane	EPA 8260B	8C31006	4.0	10	ND	10	03/31/08	03/31/08	
1,2-Dichloroethane	EPA 8260B	8C31006	2.8	5.0	ND	10	03/31/08	03/31/08	
cis-1,2-Dichloroethene	EPA 8260B	8C31006	3.2	10	**3.9**	10	03/31/08	03/31/08	Ja
1,1-Dichloroethene	EPA 8260B	8C31006	4.2	10	**31**	10	03/31/08	03/31/08	
trans-1,2-Dichloroethene	EPA 8260B	8C31006	3.0	10	ND	10	03/31/08	03/31/08	
2,2-Dichloropropane	EPA 8260B	8C31006	3.4	10	ND	10	03/31/08	03/31/08	
1,2-Dichloropropane	EPA 8260B	8C31006	3.5	10	ND	10	03/31/08	03/31/08	
cis-1,3-Dichloropropene	EPA 8260B	8C31006	2.2	5.0	ND	10	03/31/08	03/31/08	
1,1-Dichloropropene	EPA 8260B	8C31006	2.8	10	ND	10	03/31/08	03/31/08	
trans-1,3-Dichloropropene	EPA 8260B	8C31006	3.2	5.0	ND	10	03/31/08	03/31/08	
Di-isopropyl Ether (DIPE)	EPA 8260B	8C31006	2.5	20	ND	10	03/31/08	03/31/08	
Ethylbenzene	EPA 8260B	8C31006	2.5	10	ND	10	03/31/08	03/31/08	
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	8C31006	2.8	20	ND	10	03/31/08	03/31/08	

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BOE-C6-0188707

Avocet Environmental Inc.
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Attention: Michael Rendina

Project ID: Boeing C-6 Torrance (02/26/08)
1155.006
Report Number: IRC2059

Sampled: 03/26/08
Received: 03/26/08

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: IRC2059-06 (MWC024_WG20080326_01 - Water) - cont.									
Reporting Units: ug/l									
Hexachlorobutadiene	EPA 8260B	8C31006	3.8	10	ND	10	03/31/08	03/31/08	
2-Hexanone	EPA 8260B	8C31006	26	60	ND	10	03/31/08	03/31/08	
Iodomethane	EPA 8260B	8C31006	10	20	ND	10	03/31/08	03/31/08	
Isopropylbenzene	EPA 8260B	8C31006	2.5	10	ND	10	03/31/08	03/31/08	
p-Isopropyltoluene	EPA 8260B	8C31006	2.8	10	ND	10	03/31/08	03/31/08	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	8C31006	3.2	10	ND	10	03/31/08	03/31/08	
Methylene chloride	EPA 8260B	8C31006	9.5	10	ND	10	03/31/08	03/31/08	
4-Methyl-2-pentanone (MIBK)	EPA 8260B	8C31006	35	50	ND	10	03/31/08	03/31/08	
n-Propylbenzene	EPA 8260B	8C31006	2.7	10	ND	10	03/31/08	03/31/08	
Styrene	EPA 8260B	8C31006	2.0	10	ND	10	03/31/08	03/31/08	
1,1,1,2-Tetrachloroethane	EPA 8260B	8C31006	2.7	10	ND	10	03/31/08	03/31/08	
1,1,2,2-Tetrachloroethane	EPA 8260B	8C31006	3.0	10	ND	10	03/31/08	03/31/08	
Tetrachloroethene	EPA 8260B	8C31006	3.2	10	ND	10	03/31/08	03/31/08	
Tetrahydrofuran (THF)	EPA 8260B	8C31006	35	100	ND	10	03/31/08	03/31/08	
Toluene	EPA 8260B	8C31006	3.6	10	ND	10	03/31/08	03/31/08	
1,2,3-Trichlorobenzene	EPA 8260B	8C31006	3.0	10	ND	10	03/31/08	03/31/08	
1,2,4-Trichlorobenzene	EPA 8260B	8C31006	4.8	10	ND	10	03/31/08	03/31/08	
1,1,1-Trichloroethane	EPA 8260B	8C31006	3.0	10	ND	10	03/31/08	03/31/08	
1,1,2-Trichloroethane	EPA 8260B	8C31006	3.0	10	ND	10	03/31/08	03/31/08	
Trichlorofluoromethane	EPA 8260B	8C31006	3.4	20	ND	10	03/31/08	03/31/08	
1,2,3-Trichloropropane	EPA 8260B	8C31006	4.0	10	ND	10	03/31/08	03/31/08	
1,3,5-Trimethylbenzene	EPA 8260B	8C31006	2.6	10	ND	10	03/31/08	03/31/08	
1,2,4-Trimethylbenzene	EPA 8260B	8C31006	2.3	10	ND	10	03/31/08	03/31/08	
Vinyl acetate	EPA 8260B	8C31006	10	60	ND	10	03/31/08	03/31/08	
Vinyl chloride	EPA 8260B	8C31006	4.0	5.0	ND	10	03/31/08	03/31/08	
o-Xylene	EPA 8260B	8C31006	3.0	5.0	ND	10	03/31/08	03/31/08	
Xylenes, Total	EPA 8260B	8C31006	9.0	10	ND	10	03/31/08	03/31/08	
m,p-Xylenes	EPA 8260B	8C31006	6.0	10	ND	10	03/31/08	03/31/08	
Surrogate: Dibromofluoromethane (80-120%)					*99 %*				
Surrogate: Toluene-d8 (80-120%)					*99 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)					*95 %*				

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Project Manager

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Irvine, CA 92618
Attention: Michael Rendina

Project ID: Boeing C-6 Torrance (02/26/08)
1155.006
Report Number: IRC2059

Sampled: 03/26/08
Received: 03/26/08

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: IRC2059-06RE1 (MWC024_WG20080326_01 - Water) - cont.									
Reporting Units: ug/l									
Trichloroethene	EPA 8260B	8C31006	13	50	**2500**	50	03/31/08	03/31/08	
Surrogate: Dibromofluoromethane (80-120%)					*103 %*				
Surrogate: Toluene-d8 (80-120%)					*97 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)					*92 %*				

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Project Manager

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BOE-C6-0188708

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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: IRC2059

Sampled: 03/26/08
Received: 03/26/08

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

Sample ID: IRC2059-07 (CMW002_WG20080326_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	8C31006	90	200	ND	20	03/31/08	03/31/08	
tert-Amyl Methyl Ether (TAME)	EPA 8260B	8C31006	6.6	40	ND	20	03/31/08	03/31/08	
Benzene	EPA 8260B	8C31006	5.6	10	**76**	20	03/31/08	03/31/08	
Bromobenzene	EPA 8260B	8C31006	5.4	20	ND	20	03/31/08	03/31/08	
Bromochloromethane	EPA 8260B	8C31006	8.0	20	ND	20	03/31/08	03/31/08	
Bromodichloromethane	EPA 8260B	8C31006	6.0	20	ND	20	03/31/08	03/31/08	
Bromoform	EPA 8260B	8C31006	8.0	20	ND	20	03/31/08	03/31/08	
Bromomethane	EPA 8260B	8C31006	8.4	20	ND	20	03/31/08	03/31/08	
tert-Butanol (TBA)	EPA 8260B	8C31006	130	500	ND	20	03/31/08	03/31/08	
2-Butanone (MEK)	EPA 8260B	8C31006	94	100	ND	20	03/31/08	03/31/08	
tert-Butylbenzene	EPA 8260B	8C31006	4.4	20	ND	20	03/31/08	03/31/08	
n-Butylbenzene	EPA 8260B	8C31006	7.4	20	ND	20	03/31/08	03/31/08	
sec-Butylbenzene	EPA 8260B	8C31006	5.0	20	ND	20	03/31/08	03/31/08	
Carbon Disulfide	EPA 8260B	8C31006	9.6	20	ND	20	03/31/08	03/31/08	
Carbon tetrachloride	EPA 8260B	8C31006	5.6	10	ND	20	03/31/08	03/31/08	
Chloroethane	EPA 8260B	8C31006	8.0	40	ND	20	03/31/08	03/31/08	
Chloroform	EPA 8260B	8C31006	6.6	20	ND	20	03/31/08	03/31/08	
Chloromethane	EPA 8260B	8C31006	8.0	40	ND	20	03/31/08	03/31/08	
2-Chlorotoluene	EPA 8260B	8C31006	5.6	20	ND	20	03/31/08	03/31/08	
4-Chlorotoluene	EPA 8260B	8C31006	5.8	20	ND	20	03/31/08	03/31/08	
1,2-Dibromo-3-chloropropane	EPA 8260B	8C31006	19	40	ND	20	03/31/08	03/31/08	
Dibromochloromethane	EPA 8260B	8C31006	8.0	20	ND	20	03/31/08	03/31/08	
1,2-Dibromoethane (EDB)	EPA 8260B	8C31006	8.0	20	ND	20	03/31/08	03/31/08	
1,3-Dichlorobenzene	EPA 8260B	8C31006	7.0	20	ND	20	03/31/08	03/31/08	
1,4-Dichlorobenzene	EPA 8260B	8C31006	7.4	20	ND	20	03/31/08	03/31/08	
1,2-Dichlorobenzene	EPA 8260B	8C31006	6.4	20	ND	20	03/31/08	03/31/08	
Dichlorodifluoromethane	EPA 8260B	8C31006	5.2	20	ND	20	03/31/08	03/31/08	
1,1-Dichloroethane	EPA 8260B	8C31006	8.0	20	ND	20	03/31/08	03/31/08	
1,2-Dichloroethane	EPA 8260B	8C31006	5.6	10	ND	20	03/31/08	03/31/08	
cis-1,2-Dichloroethene	EPA 8260B	8C31006	6.4	20	ND	20	03/31/08	03/31/08	
1,1-Dichloroethene	EPA 8260B	8C31006	8.4	20	ND	20	03/31/08	03/31/08	
trans-1,2-Dichloroethene	EPA 8260B	8C31006	6.0	20	ND	20	03/31/08	03/31/08	
2,2-Dichloropropane	EPA 8260B	8C31006	6.8	20	ND	20	03/31/08	03/31/08	
1,2-Dichloropropane	EPA 8260B	8C31006	7.0	20	ND	20	03/31/08	03/31/08	
cis-1,3-Dichloropropene	EPA 8260B	8C31006	4.4	10	ND	20	03/31/08	03/31/08	
1,1-Dichloropropene	EPA 8260B	8C31006	5.6	20	ND	20	03/31/08	03/31/08	
trans-1,3-Dichloropropene	EPA 8260B	8C31006	6.4	10	ND	20	03/31/08	03/31/08	
Di-isopropyl Ether (DIPE)	EPA 8260B	8C31006	5.0	40	ND	20	03/31/08	03/31/08	
Ethylbenzene	EPA 8260B	8C31006	5.0	20	ND	20	03/31/08	03/31/08	
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	8C31006	5.6	40	ND	20	03/31/08	03/31/08	
Hexachlorobutadiene	EPA 8260B	8C31006	7.6	20	ND	20	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: IRC2059

Sampled: 03/26/08
Received: 03/26/08

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

Sample ID: IRC2059-07 (CMW002_WG20080326_01 - 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	8C31006	52	120	ND	20	03/31/08	03/31/08	
Iodomethane	EPA 8260B	8C31006	20	40	ND	20	03/31/08	03/31/08	
Isopropylbenzene	EPA 8260B	8C31006	5.0	20	ND	20	03/31/08	03/31/08	
p-Isopropyltoluene	EPA 8260B	8C31006	5.6	20	ND	20	03/31/08	03/31/08	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	8C31006	6.4	20	ND	20	03/31/08	03/31/08	
Methylene chloride	EPA 8260B	8C31006	19	20	ND	20	03/31/08	03/31/08	
4-Methyl-2-pentanone (MIBK)	EPA 8260B	8C31006	70	100	ND	20	03/31/08	03/31/08	
n-Propylbenzene	EPA 8260B	8C31006	5.4	20	ND	20	03/31/08	03/31/08	
Styrene	EPA 8260B	8C31006	4.0	20	ND	20	03/31/08	03/31/08	
1,1,1,2-Tetrachloroethane	EPA 8260B	8C31006	5.4	20	ND	20	03/31/08	03/31/08	
1,1,2,2-Tetrachloroethane	EPA 8260B	8C31006	6.0	20	ND	20	03/31/08	03/31/08	
Tetrachloroethene	EPA 8260B	8C31006	6.4	20	ND	20	03/31/08	03/31/08	
Tetrahydrofuran (THF)	EPA 8260B	8C31006	70	200	ND	20	03/31/08	03/31/08	
Toluene	EPA 8260B	8C31006	7.2	20	ND	20	03/31/08	03/31/08	
1,2,3-Trichlorobenzene	EPA 8260B	8C31006	6.0	20	ND	20	03/31/08	03/31/08	
1,2,4-Trichlorobenzene	EPA 8260B	8C31006	9.6	20	ND	20	03/31/08	03/31/08	
1,1,1-Trichloroethane	EPA 8260B	8C31006	6.0	20	ND	20	03/31/08	03/31/08	
1,1,2-Trichloroethane	EPA 8260B	8C31006	6.0	20	ND	20	03/31/08	03/31/08	
Trichloroethene	EPA 8260B	8C31006	5.2	20	**360**	20	03/31/08	03/31/08	
Trichlorofluoromethane	EPA 8260B	8C31006	6.8	40	ND	20	03/31/08	03/31/08	
1,2,3-Trichloropropane	EPA 8260B	8C31006	8.0	20	ND	20	03/31/08	03/31/08	
1,3,5-Trimethylbenzene	EPA 8260B	8C31006	5.2	20	ND	20	03/31/08	03/31/08	
1,2,4-Trimethylbenzene	EPA 8260B	8C31006	4.6	20	ND	20	03/31/08	03/31/08	
Vinyl acetate	EPA 8260B	8C31006	20	120	ND	20	03/31/08	03/31/08	
Vinyl chloride	EPA 8260B	8C31006	8.0	10	ND	20	03/31/08	03/31/08	
o-Xylene	EPA 8260B	8C31006	6.0	10	ND	20	03/31/08	03/31/08	
Xylenes, Total	EPA 8260B	8C31006	18	20	ND	20	03/31/08	03/31/08	
m,p-Xylenes	EPA 8260B	8C31006	12	20	ND	20	03/31/08	03/31/08	
Surrogate: Dibromofluoromethane (80-120%)					*102 %*				
Surrogate: Toluene-d8 (80-120%)					*105 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)					*96 %*				

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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: IRC2059

Sampled: 03/26/08
Received: 03/26/08

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: IRC2059-07RE1 (CMW002_WG20080326_01 - Water) - cont.									
Reporting Units: ug/l									
Chlorobenzene	EPA 8260B	8C31006	36	100	**8600**	100	03/31/08	03/31/08	
Surrogate: Dibromofluoromethane (80-120%)					*105 %*				
Surrogate: Toluene-d8 (80-120%)					*100 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)					*94 %*				

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Project ID: Boeing C-6 Torrance (02/26/08)
1155.006
Report Number: IRC2059

Sampled: 03/26/08
Received: 03/26/08

INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRC2059-02 (IRZCMW002_WG20080326_01 - Water)									
Reporting Units: mg/l									
Alkalinity as CaCO3	EPA 310.1	8C28056	2.0	2.0	**780**	1	03/28/08	03/28/08	
Chloride	EPA 300.0	8C26043	5.0	10	**190**	20	03/26/08	03/27/08	
Nitrate-NO3	EPA 300.0	8C26043	0.25	0.50	ND	1	03/26/08	03/26/08	
Nitrite-NO2	EPA 300.0	8C26043	0.30	0.50	ND	1	03/26/08	03/26/08	
Sulfate	EPA 300.0	8C26043	0.20	0.50	**2.3**	1	03/26/08	03/26/08	
Sample ID: IRC2059-03 (CMW026_WG20080326_01 - Water)									
Reporting Units: mg/l									
Alkalinity as CaCO3	EPA 310.1	8C28056	2.0	2.0	**280**	1	03/28/08	03/28/08	
Chloride	EPA 300.0	8C26043	5.0	10	**160**	20	03/26/08	03/27/08	
Nitrate-NO3	EPA 300.0	8C26043	0.25	0.50	ND	1	03/26/08	03/26/08	
Nitrite-NO2	EPA 300.0	8C26043	0.30	0.50	ND	1	03/26/08	03/26/08	
Sulfate	EPA 300.0	8C26043	0.20	0.50	**20**	1	03/26/08	03/26/08	
Sample ID: IRC2059-04 (IRZCMW003_WG20080326_01 - Water)									
Reporting Units: mg/l									
Alkalinity as CaCO3	EPA 310.1	8C28056	2.0	2.0	**190**	1	03/28/08	03/28/08	
Chloride	EPA 300.0	8C26043	5.0	10	**110**	20	03/26/08	03/27/08	
Nitrate-NO3	EPA 300.0	8C26043	0.25	0.50	**4.3**	1	03/26/08	03/26/08	
Nitrite-NO2	EPA 300.0	8C26043	0.30	0.50	ND	1	03/26/08	03/26/08	
Sulfate	EPA 300.0	8C26043	4.0	10	**89**	20	03/26/08	03/27/08	
Sample ID: IRC2059-05 (IRZCMW001_WG20080326_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	8C26043	12	25	**210**	50	03/26/08	03/27/08	
Nitrate-NO3	EPA 300.0	8C26043	0.25	0.50	**11**	1	03/26/08	03/26/08	
Nitrite-NO2	EPA 300.0	8C26043	0.30	0.50	ND	1	03/26/08	03/26/08	
Sulfate	EPA 300.0	8C26043	0.20	0.50	**38**	1	03/26/08	03/26/08	
Total Dissolved Solids	EPA 160.1	8D01102	10	10	**740**	1	04/01/08	04/01/08	
Sample ID: IRC2059-06 (MWC024_WG20080326_01 - Water)									
Reporting Units: mg/l									
Alkalinity as CaCO3	EPA 310.1	8C28056	2.0	2.0	**210**	1	03/28/08	03/28/08	
Chloride	EPA 300.0	8C26043	12	25	**300**	50	03/26/08	03/27/08	
Nitrate-NO3	EPA 300.0	8C26043	0.25	0.50	**23**	1	03/26/08	03/26/08	
Nitrite-NO2	EPA 300.0	8C26043	0.30	0.50	**1.4**	1	03/26/08	03/26/08	
Sulfate	EPA 300.0	8C26043	0.20	0.50	**36**	1	03/26/08	03/26/08	

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BOE-C6-0188710

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: IRC2059

Sampled: 03/26/08
Received: 03/26/08

INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRC2059-07 (CMW002_WG20080326_01 - Water)									
Reporting Units: mg/l									
Alkalinity as CaCO3	EPA 310.1	8C28056	2.0	2.0	**190**	1	03/28/08	03/28/08	
Chloride	EPA 300.0	8C26043	12	25	**110**	50	03/26/08	03/27/08	
Nitrate-NO3	EPA 300.0	8C26043	0.25	0.50	ND	1	03/26/08	03/26/08	
Nitrite-NO2	EPA 300.0	8C26043	0.30	0.50	ND	1	03/26/08	03/26/08	
Sulfate	EPA 300.0	8C26043	10	25	**90**	50	03/26/08	03/27/08	
Total Dissolved Solids	EPA 160.1	8D01102	10	10	**610**	1	04/01/08	04/01/08	

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Project ID: Boeing C-6 Torrance (02/26/08)
1155.006
Report Number: IRC2059

Sampled: 03/26/08
Received: 03/26/08

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: IRC2059-02 (IRZCMW002_WG20080326_01 - Water)									
Reporting Units: mg/l									
Total Organic Carbon	EPA 9060A MOD.	8D01107	0.50	1.0	**24**	1	04/01/08	04/01/08	
Sample ID: IRC2059-03 (CMW026_WG20080326_01 - Water)									
Reporting Units: mg/l									
Total Organic Carbon	EPA 9060A MOD.	8D01107	0.50	1.0	**8.6**	1	04/01/08	04/01/08	
Sample ID: IRC2059-04 (IRZCMW003_WG20080326_01 - Water)									
Reporting Units: mg/l									
Total Organic Carbon	EPA 9060A MOD.	8D01107	0.50	1.0	ND	1	04/01/08	04/01/08	
Sample ID: IRC2059-05 (IRZCMW001_WG20080326_01 - Water)									
Reporting Units: mg/l									
Total Organic Carbon	EPA 9060A MOD.	8D01107	0.50	1.0	ND	1	04/01/08	04/01/08	
Sample ID: IRC2059-06 (MWC024_WG20080326_01 - Water)									
Reporting Units: mg/l									
Total Organic Carbon	EPA 9060A MOD.	8D01107	0.50	1.0	ND	1	04/01/08	04/01/08	
Sample ID: IRC2059-07 (CMW002_WG20080326_01 - Water)									
Reporting Units: mg/l									
Total Organic Carbon	EPA 9060A MOD.	8D01107	0.50	1.0	**16**	1	04/01/08	04/01/08	

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BOE-C6-0188711

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Project ID: Boeing C-6 Torrance (02/26/08)
1155.006
Report Number: IRC2059

Sampled: 03/26/08
Received: 03/26/08

qPCR TaqMan assay

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRC2059-02 (IRZCMW002_WG20080326_01 - Water)									
Reporting Units: gene copies/L ground									
16s rRNA DHC sp.	qPCR TaqMan assay	1	0.2	50	**2.09E+07**	1	03/27/08	04/02/08	
bvcA	qPCR TaqMan assay	1	0.2	50	ND	1	03/27/08	04/03/08	
tceA	qPCR TaqMan assay	1	0.2	50	**2.06E+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: IRC2059-03 (CMW026_WG20080326_01 - Water)									
Reporting Units: gene copies/L ground									
16s rRNA DHC sp.	qPCR TaqMan assay	1	0.2	50	**2.06E+07**	1	03/27/08	04/02/08	
bvcA	qPCR TaqMan assay	1	0.2	50	ND	1	03/27/08	04/03/08	
tceA	qPCR TaqMan assay	1	0.2	50	**2.83E+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: IRC2059-04 (IRZCMW003_WG20080326_01 - Water)									
Reporting Units: gene copies/L ground									
16s rRNA DHC sp.	qPCR TaqMan assay	1	0.2	50	**2.88E+06**	1	03/27/08	04/02/08	
bvcA	qPCR TaqMan assay	1	0.2	50	ND	1	03/27/08	04/03/08	
tceA	qPCR TaqMan assay	1	0.2	50	**2.64E+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: IRC2059-05 (IRZCMW001_WG20080326_01 - Water)									
Reporting Units: gene copies/L ground									
16s rRNA DHC sp.	qPCR TaqMan assay	1	0.2	50	**4.52E+05**	1	03/27/08	04/02/08	
bvcA	qPCR TaqMan assay	1	0.2	50	ND	1	03/27/08	04/03/08	
tceA	qPCR TaqMan assay	1	0.2	50	**5.62E+02**	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: IRC2059-06 (MWC024_WG20080326_01 - Water)									
Reporting Units: gene copies/L ground									
16s rRNA DHC sp.	qPCR TaqMan assay	1	0.2	50	**2.95E+03**	1	03/27/08	04/02/08	
bvcA	qPCR TaqMan assay	1	0.2	50	ND	1	03/27/08	04/03/08	
tceA	qPCR TaqMan assay	1	0.2	50	**4.16E+02**	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: IRC2059-07 (CMW002_WG20080326_01 - Water)									
Reporting Units: gene copies/L ground									
16s rRNA DHC sp.	qPCR TaqMan assay	1	0.2	50	**3.47E+04**	1	03/27/08	04/02/08	
bvcA	qPCR TaqMan assay	1	0.2	50	ND	1	03/27/08	04/03/08	
tceA	qPCR TaqMan assay	1	0.2	50	**1.76E+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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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: IRC2059

Sampled: 03/26/08
Received: 03/26/08

Universal Bacterial PCR

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRC2059-02 (IRZCMW002_WG20080326_01 - Water)									
Reporting Units: NONE									
16s rRNA	Jniversal Bacterial PCR	1	N/A	NA	+	1	03/27/08	04/01/08	
Sample ID: IRC2059-03 (CMW026_WG20080326_01 - Water)									
Reporting Units: NONE									
16s rRNA	Jniversal Bacterial PCR	1	N/A	NA	+	1	03/27/08	04/01/08	
Sample ID: IRC2059-04 (IRZCMW003_WG20080326_01 - Water)									
Reporting Units: NONE									
16s rRNA	Jniversal Bacterial PCR	1	N/A	NA	+	1	03/27/08	04/01/08	
Sample ID: IRC2059-05 (IRZCMW001_WG20080326_01 - Water)									
Reporting Units: NONE									
16s rRNA	Jniversal Bacterial PCR	1	N/A	NA	+	1	03/27/08	04/01/08	
Sample ID: IRC2059-06 (MWC024_WG20080326_01 - Water)									
Reporting Units: NONE									
16s rRNA	Jniversal Bacterial PCR	1	N/A	NA	+	1	03/27/08	04/01/08	
Sample ID: IRC2059-07 (CMW002_WG20080326_01 - Water)									
Reporting Units: NONE									
16s rRNA	Jniversal Bacterial PCR	1	N/A	NA	+	1	03/27/08	04/01/08	

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BOE-C6-0188712

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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: IRC2059

Sampled: 03/26/08
Received: 03/26/08

Volatile Fatty Acids

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRC2059-02 (IRZCMW002_WG20080326_01 - Water)									
Reporting Units: MG/L									
ACETIC ACID	AM23G ACETIC	M080411013	0.04	0.07	**0.14**	1	04/09/08	04/11/08	M
BUTYRIC ACID	AM23G BUTYRIC	M080411013	0.06	0.07	**0.07**	1	04/09/08	04/11/08	U
HEXANOIC ACID	AM23G HEXANOIC	M080411013	0.08	0.1	**0.1**	1	04/09/08	04/11/08	U
I-HEXANOIC ACID	AM23G I-HEXANOIC	M080411013	0.08	0.1	**0.1**	1	04/09/08	04/11/08	U
I-PENTANOIC ACID	AM23G I-PENTANOIC	M080411013	0.07	0.07	**0.07**	1	04/09/08	04/11/08	U
LACTIC ACID AND HIBA	23G LACTIC AND HI	M080411013	0.07	0.1	**0.1**	1	04/09/08	04/11/08	U
PENTANOIC ACID	AM23G PENTANOIC	M080411013	0.07	0.07	**0.07**	1	04/09/08	04/11/08	U
PROPIONIC ACID	AM23G PROPIONIC	M080411013	0.05	0.07	**0.07**	1	04/09/08	04/11/08	U
PYRUVIC ACID	AM23G PYRUVIC	M080411013	0.07	0.07	**0.07**	1	04/09/08	04/11/08	U
Sample ID: IRC2059-03 (CMW026_WG20080326_01 - Water)									
Reporting Units: MG/L									
ACETIC ACID	AM23G ACETIC	M080411013	0.04	0.07	**0.06**	1	04/09/08	04/11/08	JM
BUTYRIC ACID	AM23G BUTYRIC	M080411013	0.06	0.07	**0.07**	1	04/09/08	04/11/08	U
HEXANOIC ACID	AM23G HEXANOIC	M080411013	0.08	0.1	**0.1**	1	04/09/08	04/11/08	U
I-HEXANOIC ACID	AM23G I-HEXANOIC	M080411013	0.08	0.1	**0.1**	1	04/09/08	04/11/08	U
I-PENTANOIC ACID	AM23G I-PENTANOIC	M080411013	0.07	0.07	**0.07**	1	04/09/08	04/11/08	U
LACTIC ACID AND HIBA	23G LACTIC AND HI	M080411013	0.07	0.1	**0.1**	1	04/09/08	04/11/08	U
PENTANOIC ACID	AM23G PENTANOIC	M080411013	0.07	0.07	**0.07**	1	04/09/08	04/11/08	U
PROPIONIC ACID	AM23G PROPIONIC	M080411013	0.05	0.07	**0.07**	1	04/09/08	04/11/08	U
PYRUVIC ACID	AM23G PYRUVIC	M080411013	0.07	0.07	**0.07**	1	04/09/08	04/11/08	U
Sample ID: IRC2059-04 (IRZCMW003_WG20080326_01 - Water)									
Reporting Units: MG/L									
ACETIC ACID	AM23G ACETIC	M080411013	0.04	0.07	**0.07**	1	04/09/08	04/11/08	UM
BUTYRIC ACID	AM23G BUTYRIC	M080411013	0.06	0.07	**0.07**	1	04/09/08	04/11/08	U
HEXANOIC ACID	AM23G HEXANOIC	M080411013	0.08	0.1	**0.1**	1	04/09/08	04/11/08	U
I-HEXANOIC ACID	AM23G I-HEXANOIC	M080411013	0.08	0.1	**0.1**	1	04/09/08	04/11/08	U
I-PENTANOIC ACID	AM23G I-PENTANOIC	M080411013	0.07	0.07	**0.07**	1	04/09/08	04/11/08	U
LACTIC ACID AND HIBA	23G LACTIC AND HI	M080411013	0.07	0.1	**0.1**	1	04/09/08	04/11/08	U
PENTANOIC ACID	AM23G PENTANOIC	M080411013	0.07	0.07	**0.07**	1	04/09/08	04/11/08	U
PROPIONIC ACID	AM23G PROPIONIC	M080411013	0.05	0.07	**0.07**	1	04/09/08	04/11/08	U
PYRUVIC ACID	AM23G PYRUVIC	M080411013	0.07	0.07	**0.07**	1	04/09/08	04/11/08	U

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16 Technology Drive, Suite 154
Irvine, CA 92618
Attention: Michael Rendina

Project ID: Boeing C-6 Torrance (02/26/08)
1155.006
Report Number: IRC2059

Sampled: 03/26/08
Received: 03/26/08

Volatile Fatty Acids

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRC2059-05 (IRZCMW001_WG20080326_01 - Water)									
Reporting Units: MG/L									
ACETIC ACID	AM23G ACETIC	M080411013	0.04	0.07	**0.07**	1	04/09/08	04/11/08	UM
BUTYRIC ACID	AM23G BUTYRIC	M080411013	0.06	0.07	**0.07**	1	04/09/08	04/11/08	U
HEXANOIC ACID	AM23G HEXANOIC	M080411013	0.08	0.1	**0.1**	1	04/09/08	04/11/08	U
I-HEXANOIC ACID	AM23G I-HEXANOIC	M080411013	0.08	0.1	**0.1**	1	04/09/08	04/11/08	U
I-PENTANOIC ACID	AM23G I-PENTANOIC	M080411013	0.07	0.07	**0.07**	1	04/09/08	04/11/08	U
LACTIC ACID AND HIBA	23G LACTIC AND HI	M080411013	0.07	0.1	**0.1**	1	04/09/08	04/11/08	U
PENTANOIC ACID	AM23G PENTANOIC	M080411013	0.07	0.07	**0.07**	1	04/09/08	04/11/08	U
PROPIONIC ACID	AM23G PROPIONIC	M080411013	0.05	0.07	**0.07**	1	04/09/08	04/11/08	U
PYRUVIC ACID	AM23G PYRUVIC	M080411013	0.07	0.07	**0.07**	1	04/09/08	04/11/08	U
Sample ID: IRC2059-06 (MWC024_WG20080326_01 - Water)									
Reporting Units: MG/L									
ACETIC ACID	AM23G ACETIC	M080411013	0.04	0.07	**0.07**	1	04/09/08	04/11/08	UM
BUTYRIC ACID	AM23G BUTYRIC	M080411013	0.06	0.07	**0.07**	1	04/09/08	04/11/08	U
HEXANOIC ACID	AM23G HEXANOIC	M080411013	0.08	0.1	**0.1**	1	04/09/08	04/11/08	U
I-HEXANOIC ACID	AM23G I-HEXANOIC	M080411013	0.08	0.1	**0.1**	1	04/09/08	04/11/08	U
I-PENTANOIC ACID	AM23G I-PENTANOIC	M080411013	0.07	0.07	**0.07**	1	04/09/08	04/11/08	U
LACTIC ACID AND HIBA	23G LACTIC AND HI	M080411013	0.07	0.1	**0.1**	1	04/09/08	04/11/08	U
PENTANOIC ACID	AM23G PENTANOIC	M080411013	0.07	0.07	**0.07**	1	04/09/08	04/11/08	U
PROPIONIC ACID	AM23G PROPIONIC	M080411013	0.05	0.07	**0.07**	1	04/09/08	04/11/08	U
PYRUVIC ACID	AM23G PYRUVIC	M080411013	0.07	0.07	**0.07**	1	04/09/08	04/11/08	U
Sample ID: IRC2059-07 (CMW002_WG20080326_01 - Water)									
Reporting Units: MG/L									
ACETIC ACID	AM23G ACETIC	M080411013	0.04	0.07	**0.05**	1	04/09/08	04/11/08	JM
BUTYRIC ACID	AM23G BUTYRIC	M080411013	0.06	0.07	**0.07**	1	04/09/08	04/11/08	U
HEXANOIC ACID	AM23G HEXANOIC	M080411013	0.08	0.1	**0.1**	1	04/09/08	04/11/08	U
I-HEXANOIC ACID	AM23G I-HEXANOIC	M080411013	0.08	0.1	**0.1**	1	04/09/08	04/11/08	U
I-PENTANOIC ACID	AM23G I-PENTANOIC	M080411013	0.07	0.07	**0.07**	1	04/09/08	04/11/08	U
LACTIC ACID AND HIBA	23G LACTIC AND HI	M080411013	0.07	0.1	**0.1**	1	04/09/08	04/11/08	U
PENTANOIC ACID	AM23G PENTANOIC	M080411013	0.07	0.07	**0.07**	1	04/09/08	04/11/08	U
PROPIONIC ACID	AM23G PROPIONIC	M080411013	0.05	0.07	**0.07**	1	04/09/08	04/11/08	U
PYRUVIC ACID	AM23G PYRUVIC	M080411013	0.07	0.07	**0.07**	1	04/09/08	04/11/08	U

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BOE-C6-0188713

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: IRC2059

Sampled: 03/26/08
Received: 03/26/08

RSK175 Dissolved Gases in Water

Analyte	Method	Batch	MDL	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRC2059-02 (IRZCMW002_WG20080326_01 - Water)									
Reporting Units: ug/L									
Methane	RSK-175	080403GC8A	0.39	1.0	**23,000**	1	04/03/08	04/03/08	
Ethane	RSK-175	080403GC8A	0.50	1.0	ND	1	04/03/08	04/03/08	
Ethylene	RSK-175	080403GC8A	0.33	1.0	**46**	1	04/03/08	04/03/08	
Sample ID: IRC2059-03 (CMW026_WG20080326_01 - Water)									
Reporting Units: ug/L									
Methane	RSK-175	080403GC8A	0.39	1.0	**21,000**	1	04/03/08	04/03/08	
Ethane	RSK-175	080403GC8A	0.50	1.0	ND	1	04/03/08	04/03/08	
Ethylene	RSK-175	080403GC8A	0.33	1.0	**6.0**	1	04/03/08	04/03/08	
Sample ID: IRC2059-04 (IRZCMW003_WG20080326_01 - Water)									
Reporting Units: ug/L									
Methane	RSK-175	080403GC8A	0.39	1.0	**14,000**	1	04/03/08	04/03/08	
Ethane	RSK-175	080403GC8A	0.50	1.0	ND	1	04/03/08	04/03/08	
Ethylene	RSK-175	080403GC8A	0.33	1.0	**8.6**	1	04/03/08	04/03/08	
Sample ID: IRC2059-05 (IRZCMW001_WG20080326_01 - Water)									
Reporting Units: ug/L									
Methane	RSK-175	080403GC8A	0.39	1.0	**1.3**	1	04/03/08	04/03/08	
Ethane	RSK-175	080403GC8A	0.50	1.0	ND	1	04/03/08	04/03/08	
Ethylene	RSK-175	080403GC8A	0.33	1.0	ND	1	04/03/08	04/03/08	
Sample ID: IRC2059-06 (MWC024_WG20080326_01 - Water)									
Reporting Units: ug/L									
Methane	RSK-175	080403GC8A	0.39	1.0	**3,200**	1	04/03/08	04/03/08	
Ethane	RSK-175	080403GC8A	0.50	1.0	ND	1	04/03/08	04/03/08	
Ethylene	RSK-175	080403GC8A	0.33	1.0	ND	1	04/03/08	04/03/08	
Sample ID: IRC2059-07 (CMW002_WG20080326_01 - Water)									
Reporting Units: ug/L									
Methane	RSK-175	080403GC8A	0.39	1.0	**2.0**	1	04/03/08	04/03/08	
Ethane	RSK-175	080403GC8A	0.50	1.0	ND	1	04/03/08	04/03/08	
Ethylene	RSK-175	080403GC8A	0.33	1.0	ND	1	04/03/08	04/03/08	

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Project ID: Boeing C-6 Torrance (02/26/08)
1155.006
Report Number: IRC2059

Sampled: 03/26/08
Received: 03/26/08

SHORT HOLD TIME DETAIL REPORT

	Hold Time (in days)	Date/Time Sampled	Date/Time Received	Date/Time Extracted	Date/Time Analyzed
Sample ID: IRZCMW002_WG20080326_01 (IRC2059-02) - Water					
EPA 300.0	2	03/26/2008 07:10	03/26/2008 15:00	03/26/2008 16:00	03/26/2008 18:55
Sample ID: CMW026_WG20080326_01 (IRC2059-03) - Water					
EPA 300.0	2	03/26/2008 08:00	03/26/2008 15:00	03/26/2008 16:00	03/26/2008 19:13
Sample ID: IRZCMW003_WG20080326_01 (IRC2059-04) - Water					
EPA 300.0	2	03/26/2008 08:36	03/26/2008 15:00	03/26/2008 16:00	03/26/2008 19:30
Sample ID: IRZCMW001_WG20080326_01 (IRC2059-05) - Water					
EPA 300.0	2	03/26/2008 09:07	03/26/2008 15:00	03/26/2008 16:00	03/26/2008 19:47
Sample ID: MWC024_WG20080326_01 (IRC2059-06) - Water					
EPA 300.0	2	03/26/2008 09:47	03/26/2008 15:00	03/26/2008 16:00	03/26/2008 20:04
Sample ID: CMW002_WG20080326_01 (IRC2059-07) - Water					
EPA 300.0	2	03/26/2008 10:26	03/26/2008 15:00	03/26/2008 16:00	03/26/2008 20:21

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BOE-C6-0188714

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: IRC2059

Sampled: 03/26/08
Received: 03/26/08

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: 8D01007 Extracted: 04/01/08											
Blank Analyzed: 04/01/2008 (8D01007-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	*23.8*			*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*			
LCS Analyzed: 04/01/2008 (8D01007-BS1)											
2-Chloroethyl vinyl ether	22.5	5.0	1.8	ug/l	25.0		90	25-170			
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**					
2-Chloroethyl vinyl ether	ND	5.0	1.8	ug/l	25.0	ND		25-170			*M13*
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**					
2-Chloroethyl vinyl ether	ND	5.0	1.8	ug/l	25.0	ND		25-170		25	*M13*
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: 8D01015 Extracted: 04/01/08											
Blank Analyzed: 04/01/2008 (8D01015-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	*25.2*			*ug/l*	*25.0*		*101*	*80-120*			
Surrogate: Toluene-d8	*25.2*			*ug/l*	*25.0*		*101*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*23.6*			*ug/l*	*25.0*		*95*	*80-120*			

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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: IRC2059

Sampled: 03/26/08
Received: 03/26/08

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: 8D01015 Extracted: 04/01/08											
LCS Analyzed: 04/01/2008 (8D01015-BS1)											
2-Chloroethyl vinyl ether	23.4	5.0	1.8	ug/l	25.0		93	25-170			
Surrogate: Dibromofluoromethane	*24.6*			*ug/l*	*25.0*		*98*	*80-120*			
Surrogate: Toluene-d8	*24.6*			*ug/l*	*25.0*		*98*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*23.5*			*ug/l*	*25.0*		*94*	*80-120*			
Matrix Spike Analyzed: 04/01/2008 (8D01015-MS1)						**Source: IRC2081-11**					
2-Chloroethyl vinyl ether	ND	5.0	1.8	ug/l	25.0	ND		25-170			*M13*
Surrogate: Dibromofluoromethane	*24.6*			*ug/l*	*25.0*		*98*	*80-120*			
Surrogate: Toluene-d8	*25.1*			*ug/l*	*25.0*		*100*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*24.9*			*ug/l*	*25.0*		*99*	*80-120*			
Matrix Spike Dup Analyzed: 04/01/2008 (8D01015-MSD1)						**Source: IRC2081-11**					
2-Chloroethyl vinyl ether	ND	5.0	1.8	ug/l	25.0	ND		25-170		25	*M13*
Surrogate: Dibromofluoromethane	*24.5*			*ug/l*	*25.0*		*98*	*80-120*			
Surrogate: Toluene-d8	*25.1*			*ug/l*	*25.0*		*100*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*23.9*			*ug/l*	*25.0*		*95*	*80-120*			

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BOE-C6-0188715

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: IRC2059

Sampled: 03/26/08
Received: 03/26/08

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: 8C31006 Extracted: 03/31/08											
Blank Analyzed: 03/31/2008 (8C31006-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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Avocet Environmental Inc.
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Project ID: Boeing C-6 Torrance (02/26/08)
1155.006
Report Number: IRC2059

Sampled: 03/26/08
Received: 03/26/08

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: 8C31006 Extracted: 03/31/08											
Blank Analyzed: 03/31/2008 (8C31006-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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BOE-C6-0188716

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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: IRC2059

Sampled: 03/26/08
Received: 03/26/08

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: 8C31006 Extracted: 03/31/08											
Blank Analyzed: 03/31/2008 (8C31006-BLK1)											
Surrogate: Dibromofluoromethane	*24.7*			*ug/l*	*25.0*		*99*	*80-120*			
Surrogate: Toluene-d8	*25.2*			*ug/l*	*25.0*		*101*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*23.6*			*ug/l*	*25.0*		*95*	*80-120*			
LCS Analyzed: 03/31/2008 (8C31006-BS1)											
Acetone	18.3	10	4.5	ug/l	25.0		73	30-140			
tert-Amyl Methyl Ether (TAME)	20.9	2.0	0.33	ug/l	25.0		84	60-135			
Benzene	21.8	0.50	0.28	ug/l	25.0		87	70-120			
Bromobenzene	22.7	1.0	0.27	ug/l	25.0		91	75-120			
Bromochloromethane	22.7	1.0	0.40	ug/l	25.0		91	70-130			
Bromodichloromethane	23.8	1.0	0.30	ug/l	25.0		95	70-135			
Bromoform	17.6	1.0	0.40	ug/l	25.0		70	55-130			
Bromomethane	25.2	1.0	0.42	ug/l	25.0		101	65-140			
tert-Butanol (TBA)	121	25	6.5	ug/l	125		97	70-135			
2-Butanone (MEK)	19.5	5.0	4.7	ug/l	25.0		78	40-140			
tert-Butylbenzene	22.6	1.0	0.22	ug/l	25.0		90	70-125			
n-Butylbenzene	22.2	1.0	0.37	ug/l	25.0		89	70-130			
sec-Butylbenzene	22.0	1.0	0.25	ug/l	25.0		88	70-125			
Carbon Disulfide	22.6	1.0	0.48	ug/l	25.0		90	50-130			
Carbon tetrachloride	20.6	0.50	0.28	ug/l	25.0		83	65-140			
Chlorobenzene	23.6	1.0	0.36	ug/l	25.0		94	75-120			
Chloroethane	23.6	2.0	0.40	ug/l	25.0		95	60-140			
Chloroform	24.1	1.0	0.33	ug/l	25.0		96	70-130			
Chloromethane	21.0	2.0	0.40	ug/l	25.0		84	50-140			
2-Chlorotoluene	23.2	1.0	0.28	ug/l	25.0		93	70-125			
4-Chlorotoluene	23.5	1.0	0.29	ug/l	25.0		94	75-125			
1,2-Dibromo-3-chloropropane	20.2	2.0	0.97	ug/l	25.0		81	50-135			
Dibromochloromethane	22.9	1.0	0.40	ug/l	25.0		92	70-140			
1,2-Dibromoethane (EDB)	22.6	1.0	0.40	ug/l	25.0		91	75-125			
1,3-Dichlorobenzene	23.7	1.0	0.35	ug/l	25.0		95	75-120			
1,4-Dichlorobenzene	21.4	1.0	0.37	ug/l	25.0		85	75-120			
1,2-Dichlorobenzene	23.3	1.0	0.32	ug/l	25.0		93	75-120			
Dichlorodifluoromethane	23.5	1.0	0.26	ug/l	25.0		94	35-155			
1,1-Dichloroethane	20.8	1.0	0.40	ug/l	25.0		83	70-125			
1,2-Dichloroethane	23.3	0.50	0.28	ug/l	25.0		93	60-140			
cis-1,2-Dichloroethene	21.5	1.0	0.32	ug/l	25.0		86	70-125			

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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: IRC2059

Sampled: 03/26/08
Received: 03/26/08

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: 8C31006 Extracted: 03/31/08											
LCS Analyzed: 03/31/2008 (8C31006-BS1)											
1,1-Dichloroethene	19.6	1.0	0.42	ug/l	25.0		78	70-125			
trans-1,2-Dichloroethene	22.5	1.0	0.30	ug/l	25.0		90	70-125			
2,2-Dichloropropane	22.8	1.0	0.34	ug/l	25.0		91	65-140			
1,2-Dichloropropane	20.6	1.0	0.35	ug/l	25.0		83	70-125			
cis-1,3-Dichloropropene	19.3	0.50	0.22	ug/l	25.0		77	75-125			
1,1-Dichloropropene	22.5	1.0	0.28	ug/l	25.0		90	75-130			
trans-1,3-Dichloropropene	20.3	0.50	0.32	ug/l	25.0		81	70-125			
Di-isopropyl Ether (DIPE)	20.6	2.0	0.25	ug/l	25.0		82	60-135			
Ethylbenzene	23.8	1.0	0.25	ug/l	25.0		95	75-125			
Ethyl tert-Butyl Ether (ETBE)	20.8	2.0	0.28	ug/l	25.0		83	65-135			
Hexachlorobutadiene	23.4	1.0	0.38	ug/l	25.0		94	65-135			
2-Hexanone	17.9	6.0	2.6	ug/l	25.0		72	45-140			
Isopropylbenzene	26.1	1.0	0.25	ug/l	25.0		105	75-130			
p-Isopropyltoluene	22.2	1.0	0.28	ug/l	25.0		89	75-125			
Methyl-tert-butyl Ether (MTBE)	21.6	1.0	0.32	ug/l	25.0		87	60-135			
Methylene chloride	20.3	1.0	0.95	ug/l	25.0		81	55-130			
4-Methyl-2-pentanone (MIBK)	19.0	5.0	3.5	ug/l	25.0		76	45-140			
n-Propylbenzene	23.0	1.0	0.27	ug/l	25.0		92	75-130			
Styrene	23.2	1.0	0.20	ug/l	25.0		93	75-130			
1,1,1,2-Tetrachloroethane	21.3	1.0	0.27	ug/l	25.0		85	70-130			
1,1,2,2-Tetrachloroethane	20.7	1.0	0.30	ug/l	25.0		83	55-130			
Tetrachloroethene	23.4	1.0	0.32	ug/l	25.0		94	70-125			
Toluene	23.0	1.0	0.36	ug/l	25.0		92	70-120			
1,2,3-Trichlorobenzene	22.8	1.0	0.30	ug/l	25.0		91	65-125			
1,2,4-Trichlorobenzene	23.5	1.0	0.48	ug/l	25.0		94	70-135			
1,1,1-Trichloroethane	23.0	1.0	0.30	ug/l	25.0		92	65-135			
1,1,2-Trichloroethane	22.2	1.0	0.30	ug/l	25.0		89	70-125			
Trichloroethene	22.6	1.0	0.26	ug/l	25.0		90	70-125			
Trichlorofluoromethane	29.2	2.0	0.34	ug/l	25.0		117	65-145			
1,2,3-Trichloropropane	20.8	1.0	0.40	ug/l	25.0		83	60-130			
1,3,5-Trimethylbenzene	22.9	1.0	0.26	ug/l	25.0		92	75-125			
1,2,4-Trimethylbenzene	22.8	1.0	0.23	ug/l	25.0		91	75-125			
Vinyl acetate	17.0	6.0	1.0	ug/l	25.0		68	45-145			
Vinyl chloride	21.5	0.50	0.40	ug/l	25.0		86	55-135			*M-3*
o-Xylene	23.4	0.50	0.30	ug/l	25.0		93	75-125			

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Project Manager

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BOE-C6-0188717

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: IRC2059

Sampled: 03/26/08
Received: 03/26/08

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: 8C31006 Extracted: 03/31/08											
LCS Analyzed: 03/31/2008 (8C31006-BS1)											
m,p-Xylenes	47.0	1.0	0.60	ug/l	50.0		94	75-125			
Surrogate: Dibromofluoromethane	*24.6*			*ug/l*	*25.0*		*98*	*80-120*			
Surrogate: Toluene-d8	*23.8*			*ug/l*	*25.0*		*95*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*25.0*			*ug/l*	*25.0*		*100*	*80-120*			
Matrix Spike Analyzed: 03/31/2008 (8C31006-MS1)						**Source: IRC2059-02**					
Acetone	55.4	40	18	ug/l	100	ND	55	20-150			
tert-Amyl Methyl Ether (TAME)	84.8	8.0	1.3	ug/l	100	ND	85	60-140			
Benzene	94.4	2.0	1.1	ug/l	100	ND	94	65-125			
Bromobenzene	107	4.0	1.1	ug/l	100	ND	107	70-125			
Bromochloromethane	91.1	4.0	1.6	ug/l	100	ND	91	65-135			
Bromodichloromethane	103	4.0	1.2	ug/l	100	ND	103	70-135			
Bromoform	69.6	4.0	1.6	ug/l	100	ND	70	55-135			
Bromomethane	102	4.0	1.7	ug/l	100	ND	102	55-145			
tert-Butanol (TBA)	586	100	26	ug/l	500	ND	117	65-140			
2-Butanone (MEK)	72.0	20	19	ug/l	100	ND	72	30-145			
tert-Butylbenzene	111	4.0	0.88	ug/l	100	ND	111	65-130			
n-Butylbenzene	103	4.0	1.5	ug/l	100	ND	103	65-135			
sec-Butylbenzene	104	4.0	1.0	ug/l	100	ND	104	70-125			
Carbon Disulfide	101	4.0	1.9	ug/l	100	ND	101	40-140			
Carbon tetrachloride	93.9	2.0	1.1	ug/l	100	ND	94	65-140			
Chlorobenzene	102	4.0	1.4	ug/l	100	ND	102	75-125			
Chloroethane	107	8.0	1.6	ug/l	100	ND	107	55-140			
Chloroform	105	4.0	1.3	ug/l	100	ND	105	65-135			
Chloromethane	92.3	8.0	1.6	ug/l	100	ND	92	45-145			
2-Chlorotoluene	113	4.0	1.1	ug/l	100	ND	113	65-135			
4-Chlorotoluene	114	4.0	1.2	ug/l	100	ND	114	70-135			
1,2-Dibromo-3-chloropropane	78.0	8.0	3.9	ug/l	100	ND	78	45-145			
Dibromochloromethane	95.6	4.0	1.6	ug/l	100	ND	96	65-140			
1,2-Dibromoethane (EDB)	87.1	4.0	1.6	ug/l	100	ND	87	70-130			
1,3-Dichlorobenzene	108	4.0	1.4	ug/l	100	ND	108	75-125			
1,4-Dichlorobenzene	96.8	4.0	1.5	ug/l	100	ND	97	75-125			
1,2-Dichlorobenzene	104	4.0	1.3	ug/l	100	ND	104	75-125			
Dichlorodifluoromethane	108	4.0	1.0	ug/l	100	ND	108	25-155			
1,1-Dichloroethane	94.6	4.0	1.6	ug/l	100	ND	95	65-130			
1,2-Dichloroethane	97.9	2.0	1.1	ug/l	100	ND	98	60-140			

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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: IRC2059

Sampled: 03/26/08
Received: 03/26/08

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: 8C31006 Extracted: 03/31/08											
Matrix Spike Analyzed: 03/31/2008 (8C31006-MS1)						**Source: IRC2059-02**					
cis-1,2-Dichloroethene	109	4.0	1.3	ug/l	100	19.4	90	65-130			
1,1-Dichloroethene	81.4	4.0	1.7	ug/l	100	ND	81	60-130			
trans-1,2-Dichloroethene	110	4.0	1.2	ug/l	100	10.4	100	65-130			
2,2-Dichloropropane	103	4.0	1.4	ug/l	100	ND	103	60-145			
1,2-Dichloropropane	87.3	4.0	1.4	ug/l	100	ND	87	65-130			
cis-1,3-Dichloropropene	83.6	2.0	0.88	ug/l	100	ND	84	70-130			
1,1-Dichloropropene	101	4.0	1.1	ug/l	100	ND	101	70-135			
trans-1,3-Dichloropropene	81.1	2.0	1.3	ug/l	100	ND	81	65-135			
Di-isopropyl Ether (DIPE)	86.7	8.0	1.0	ug/l	100	ND	87	60-140			
Ethylbenzene	110	4.0	1.0	ug/l	100	ND	110	65-130			
Ethyl tert-Butyl Ether (ETBE)	84.4	8.0	1.1	ug/l	100	ND	84	60-135			
Hexachlorobutadiene	108	4.0	1.5	ug/l	100	ND	108	60-135			
2-Hexanone	64.1	24	10	ug/l	100	ND	64	25-140			
Isopropylbenzene	127	4.0	1.0	ug/l	100	ND	127	70-135			
p-Isopropyltoluene	100	4.0	1.1	ug/l	100	ND	100	65-130			
Methyl-tert-butyl Ether (MTBE)	83.7	4.0	1.3	ug/l	100	ND	84	55-145			
Methylene chloride	86.9	4.0	3.8	ug/l	100	ND	87	50-135			
4-Methyl-2-pentanone (MIBK)	68.1	20	14	ug/l	100	ND	68	40-140			
n-Propylbenzene	110	4.0	1.1	ug/l	100	ND	110	70-135			
Styrene	102	4.0	0.80	ug/l	100	ND	102	50-145			
1,1,1,2-Tetrachloroethane	95.4	4.0	1.1	ug/l	100	ND	95	65-140			
1,1,2,2-Tetrachloroethane	84.2	4.0	1.2	ug/l	100	ND	84	55-135			
Tetrachloroethene	110	4.0	1.3	ug/l	100	ND	110	65-130			
Toluene	101	4.0	1.4	ug/l	100	ND	101	70-125			
1,2,3-Trichlorobenzene	96.4	4.0	1.2	ug/l	100	ND	96	60-135			
1,2,4-Trichlorobenzene	103	4.0	1.9	ug/l	100	ND	103	65-135			
1,1,1-Trichloroethane	107	4.0	1.2	ug/l	100	ND	107	65-140			
1,1,2-Trichloroethane	84.2	4.0	1.2	ug/l	100	ND	84	65-130			
Trichloroethene	105	4.0	1.0	ug/l	100	1.24	104	65-125			
Trichlorofluoromethane	138	8.0	1.4	ug/l	100	ND	138	60-145			
1,2,3-Trichloropropane	78.8	4.0	1.6	ug/l	100	ND	79	55-135			
1,3,5-Trimethylbenzene	109	4.0	1.0	ug/l	100	ND	109	70-130			
1,2,4-Trimethylbenzene	107	4.0	0.92	ug/l	100	ND	107	55-135			
Vinyl acetate	64.8	24	4.0	ug/l	100	ND	65	40-150			
o-Xylene	103	2.0	1.2	ug/l	100	ND	103	65-125			

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BOE-C6-0188718

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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: IRC2059

Sampled: 03/26/08
Received: 03/26/08

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: 8C31006 Extracted: 03/31/08											
Matrix Spike Analyzed: 03/31/2008 (8C31006-MS1)						**Source: IRC2059-02**					
m,p-Xylenes	210	4.0	2.4	ug/l	200	ND	105	65-130			
Surrogate: Dibromofluoromethane	*95.4*			*ug/l*	*100*		*95*	*80-120*			
Surrogate: Toluene-d8	*97.1*			*ug/l*	*100*		*97*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*96.8*			*ug/l*	*100*		*97*	*80-120*			
Matrix Spike Dup Analyzed: 03/31/2008 (8C31006-MSD1)						**Source: IRC2059-02**					
Acetone	63.2	40	18	ug/l	100	ND	63	20-150	13	35	
tert-Amyl Methyl Ether (TAME)	87.3	8.0	1.3	ug/l	100	ND	87	60-140	3	30	
Benzene	97.5	2.0	1.1	ug/l	100	ND	98	65-125	3	20	
Bromobenzene	102	4.0	1.1	ug/l	100	ND	102	70-125	4	20	
Bromochloromethane	93.9	4.0	1.6	ug/l	100	ND	94	65-135	3	25	
Bromodichloromethane	106	4.0	1.2	ug/l	100	ND	106	70-135	3	20	
Bromoform	71.1	4.0	1.6	ug/l	100	ND	71	55-135	2	25	
Bromomethane	107	4.0	1.7	ug/l	100	ND	107	55-145	5	25	
tert-Butanol (TBA)	584	100	26	ug/l	500	ND	117	65-140	0	25	
2-Butanone (MEK)	71.6	20	19	ug/l	100	ND	72	30-145	1	40	
tert-Butylbenzene	105	4.0	0.88	ug/l	100	ND	105	65-130	5	20	
n-Butylbenzene	103	4.0	1.5	ug/l	100	ND	103	65-135	0	20	
sec-Butylbenzene	103	4.0	1.0	ug/l	100	ND	103	70-125	1	20	
Carbon Disulfide	101	4.0	1.9	ug/l	100	ND	101	40-140	0	20	
Carbon tetrachloride	102	2.0	1.1	ug/l	100	ND	102	65-140	8	25	
Chlorobenzene	102	4.0	1.4	ug/l	100	ND	102	75-125	1	20	
Chloroethane	111	8.0	1.6	ug/l	100	ND	111	55-140	3	25	
Chloroform	107	4.0	1.3	ug/l	100	ND	107	65-135	2	20	
Chloromethane	95.3	8.0	1.6	ug/l	100	ND	95	45-145	3	25	
2-Chlorotoluene	104	4.0	1.1	ug/l	100	ND	104	65-135	8	20	
4-Chlorotoluene	107	4.0	1.2	ug/l	100	ND	107	70-135	6	20	
1,2-Dibromo-3-chloropropane	78.3	8.0	3.9	ug/l	100	ND	78	45-145	1	30	
Dibromochloromethane	95.4	4.0	1.6	ug/l	100	ND	95	65-140	0	25	
1,2-Dibromoethane (EDB)	85.7	4.0	1.6	ug/l	100	ND	86	70-130	2	25	
1,3-Dichlorobenzene	108	4.0	1.4	ug/l	100	ND	108	75-125	1	20	
1,4-Dichlorobenzene	96.5	4.0	1.5	ug/l	100	ND	97	75-125	0	20	
1,2-Dichlorobenzene	104	4.0	1.3	ug/l	100	ND	104	75-125	0	20	
Dichlorodifluoromethane	108	4.0	1.0	ug/l	100	ND	108	25-155	0	30	
1,1-Dichloroethane	92.8	4.0	1.6	ug/l	100	ND	93	65-130	2	20	
1,2-Dichloroethane	99.2	2.0	1.1	ug/l	100	ND	99	60-140	1	20	

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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: IRC2059

Sampled: 03/26/08
Received: 03/26/08

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: 8C31006 Extracted: 03/31/08											
Matrix Spike Dup Analyzed: 03/31/2008 (8C31006-MSD1)						**Source: IRC2059-02**					
cis-1,2-Dichloroethene	110	4.0	1.3	ug/l	100	19.4	90	65-130	1	20	
1,1-Dichloroethene	81.2	4.0	1.7	ug/l	100	ND	81	60-130	0	20	
trans-1,2-Dichloroethene	109	4.0	1.2	ug/l	100	10.4	98	65-130	1	20	
2,2-Dichloropropane	103	4.0	1.4	ug/l	100	ND	103	60-145	0	25	
1,2-Dichloropropane	91.8	4.0	1.4	ug/l	100	ND	92	65-130	5	20	
cis-1,3-Dichloropropene	82.6	2.0	0.88	ug/l	100	ND	83	70-130	1	20	
1,1-Dichloropropene	104	4.0	1.1	ug/l	100	ND	104	70-135	3	20	
trans-1,3-Dichloropropene	84.9	2.0	1.3	ug/l	100	ND	85	65-135	5	25	
Di-isopropyl Ether (DIPE)	89.8	8.0	1.0	ug/l	100	ND	90	60-140	4	25	
Ethylbenzene	106	4.0	1.0	ug/l	100	ND	106	65-130	4	20	
Ethyl tert-Butyl Ether (ETBE)	87.1	8.0	1.1	ug/l	100	ND	87	60-135	3	25	
Hexachlorobutadiene	108	4.0	1.5	ug/l	100	ND	108	60-135	1	20	
2-Hexanone	62.4	24	10	ug/l	100	ND	62	25-140	3	35	
Isopropylbenzene	121	4.0	1.0	ug/l	100	ND	121	70-135	4	20	
p-Isopropyltoluene	103	4.0	1.1	ug/l	100	ND	103	65-130	3	20	
Methyl-tert-butyl Ether (MTBE)	85.5	4.0	1.3	ug/l	100	ND	85	55-145	2	25	
Methylene chloride	85.5	4.0	3.8	ug/l	100	ND	86	50-135	2	20	
4-Methyl-2-pentanone (MIBK)	72.4	20	14	ug/l	100	ND	72	40-140	6	35	
n-Propylbenzene	108	4.0	1.1	ug/l	100	ND	108	70-135	2	20	
Styrene	99.1	4.0	0.80	ug/l	100	ND	99	50-145	3	30	
1,1,1,2-Tetrachloroethane	94.3	4.0	1.1	ug/l	100	ND	94	65-140	1	20	
1,1,2,2-Tetrachloroethane	82.7	4.0	1.2	ug/l	100	ND	83	55-135	2	30	
Tetrachloroethene	102	4.0	1.3	ug/l	100	ND	102	65-130	7	20	
Toluene	104	4.0	1.4	ug/l	100	ND	104	70-125	2	20	
1,2,3-Trichlorobenzene	97.9	4.0	1.2	ug/l	100	ND	98	60-135	2	20	
1,2,4-Trichlorobenzene	102	4.0	1.9	ug/l	100	ND	102	65-135	1	20	
1,1,1-Trichloroethane	109	4.0	1.2	ug/l	100	ND	109	65-140	1	20	
1,1,2-Trichloroethane	91.3	4.0	1.2	ug/l	100	ND	91	65-130	8	25	
Trichloroethene	103	4.0	1.0	ug/l	100	1.24	102	65-125	2	20	
Trichlorofluoromethane	136	8.0	1.4	ug/l	100	ND	136	60-145	2	25	
1,2,3-Trichloropropane	78.7	4.0	1.6	ug/l	100	ND	79	55-135	0	30	
1,3,5-Trimethylbenzene	104	4.0	1.0	ug/l	100	ND	104	70-130	5	20	
1,2,4-Trimethylbenzene	103	4.0	0.92	ug/l	100	ND	103	55-135	4	25	
Vinyl acetate	66.9	24	4.0	ug/l	100	ND	67	40-150	3	30	
o-Xylene	102	2.0	1.2	ug/l	100	ND	102	65-125	1	20	

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BOE-C6-0188719

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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: IRC2059

Sampled: 03/26/08
Received: 03/26/08

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: 8C31006 Extracted: 03/31/08											
Matrix Spike Dup Analyzed: 03/31/2008 (8C31006-MSD1)						**Source: IRC2059-02**					
m,p-Xylenes	204	4.0	2.4	ug/l	200	ND	102	65-130	3	25	
Surrogate: Dibromofluoromethane	*94.5*			*ug/l*	*100*		*95*	*80-120*			
Surrogate: Toluene-d8	*100*			*ug/l*	*100*		*100*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*94.0*			*ug/l*	*100*		*94*	*80-120*			

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Project ID: Boeing C-6 Torrance (02/26/08)
1155.006
Report Number: IRC2059

Sampled: 03/26/08
Received: 03/26/08

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8C26043 Extracted: 03/26/08											
Blank Analyzed: 03/26/2008 (8C26043-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: 03/26/2008 (8C26043-BS1)											
Chloride	4.59	0.50	0.25	mg/l	5.00		92	90-110			*M-3*
Nitrate-NO3	4.71	0.50	0.25	mg/l	5.00		94	90-110			
Nitrite-NO2	4.82	0.50	0.30	mg/l	5.00		96	90-110			
Sulfate	9.49	0.50	0.20	mg/l	10.0		95	90-110			*M-3*
Matrix Spike Analyzed: 03/26/2008 (8C26043-MS1)						**Source: IRC2020-01**					
Nitrate-NO3	5.41	0.50	0.25	mg/l	5.00	0.879	91	80-120			
Nitrite-NO2	5.27	0.50	0.30	mg/l	5.00	ND	105	80-120			
Matrix Spike Analyzed: 03/27/2008 (8C26043-MS2)						**Source: IRC2084-01**					
Nitrate-NO3	4.73	0.50	0.25	mg/l	5.00	ND	95	80-120			
Nitrite-NO2	4.92	0.50	0.30	mg/l	5.00	ND	98	80-120			
Matrix Spike Dup Analyzed: 03/26/2008 (8C26043-MSD1)						**Source: IRC2020-01**					
Nitrate-NO3	5.98	0.50	0.25	mg/l	5.00	0.879	102	80-120	10	20	
Nitrite-NO2	6.41	0.50	0.30	mg/l	5.00	ND	128	80-120	20	20	*M1*
Batch: 8C28056 Extracted: 03/28/08											
Blank Analyzed: 03/28/2008 (8C28056-BLK1)											
Alkalinity as CaCO3	ND	2.0	2.0	mg/l							

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BOE-C6-0188720

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Project ID: Boeing C-6 Torrance (02/26/08)
1155.006
Report Number: IRC2059

Sampled: 03/26/08
Received: 03/26/08

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8C28056 Extracted: 03/28/08											
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: 8D01102 Extracted: 04/01/08											
Blank Analyzed: 04/01/2008 (8D01102-BLK1)											
Total Dissolved Solids	ND	10	10	mg/l							
LCS Analyzed: 04/01/2008 (8D01102-BS1)											
Total Dissolved Solids	988	10	10	mg/l	1000		99	90-110			
Duplicate Analyzed: 04/01/2008 (8D01102-DUP1)						**Source: IRC2059-05**					
Total Dissolved Solids	741	10	10	mg/l		736			1	10	

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1155.006
Report Number: IRC2059

Sampled: 03/26/08
Received: 03/26/08

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: 8D01107 Extracted: 04/01/08											
Blank Analyzed: 04/01/2008 (8D01107-BLK1)											
Total Organic Carbon	ND	1.0	0.50	mg/l							
LCS Analyzed: 04/01/2008 (8D01107-BS1)											
Total Organic Carbon	9.19	1.0	0.50	mg/l	10.0		92	90-110			
Matrix Spike Analyzed: 04/01/2008 (8D01107-MS1)						**Source: IRC1869-05**					
Total Organic Carbon	18.0	1.0	0.50	mg/l	5.00	12.6	109	80-120			
Matrix Spike Dup Analyzed: 04/01/2008 (8D01107-MSD1)						**Source: IRC1869-05**					
Total Organic Carbon	18.4	1.0	0.50	mg/l	5.00	12.6	116	80-120	2	20	

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BOE-C6-0188721

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Project ID: Boeing C-6 Torrance (02/26/08)
1155.006
Report Number: IRC2059

Sampled: 03/26/08
Received: 03/26/08

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: 04/03/08											
Blank Analyzed: 04/03/2008 (bvcA negative)						**Source: vcrA negative**					
vcrA	ND	50	0.gene copies/L grounc					-			
Matrix spike Analyzed: 04/03/2008 (bvcA positive)						**Source: vcrA positive**					
vcrA	+	50	0.gene copies/L grounc					-			
Blank Analyzed: 04/03/2008 (tceA negative)						**Source: tceA negative**					
tceA	ND	50	0.gene copies/L grounc					-			
Matrix spike Analyzed: 04/03/2008 (tceA positive)						**Source: tceA positive**					
tceA	+	50	0.gene copies/L grounc					-			
Blank Analyzed: 04/03/2008 (vcrA negative)						**Source: vcrA negative**					
vcrA	ND	50	0.gene copies/L grounc					-			
Matrix spike Analyzed: 04/03/2008 (vcrA positive)						**Source: vcrA positive**					
vcrA	+	50	0.gene copies/L grounc					-			

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1155.006
Report Number: IRC2059

Sampled: 03/26/08
Received: 03/26/08

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											
Blank Analyzed: 04/01/2008 ((-) PCR)						**Source: (-) PCR**					
16s rRNA	ND	NA	N/A	NONE				-			
Matrix spike Analyzed: 04/01/2008 ((+) PCR)						**Source: (+) PCR**					
16s rRNA	+	NA	N/A	NONE				-			

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BOE-C6-0188722

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1155.006
Report Number: IRC2059

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Received: 03/26/08

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: M080411013 Extracted: 04/09/08											
LCS Analyzed: 04/10/2008 (M080411013-LCS)						**Source:**					
ACETIC ACID	1.5	0.07	0.04	MG/L	2		75	70-130			
BUTYRIC ACID	1.6	0.07	0.06	MG/L	2		80	70-130			
HEXANOIC ACID	1.7	0.1	0.08	MG/L	2		85	70-130			
I-HEXANOIC ACID	1.7	0.1	0.08	MG/L	2		85	70-130			
LACTIC ACID AND HIBA	1.9	0.1	0.07	MG/L	2		95	70-130			
PENTANOIC ACID	1.5	0.07	0.07	MG/L	2		75	70-130			
PROPIONIC ACID	1.6	0.07	0.05	MG/L	2		80	70-130			
PYRUVIC ACID	1.6	0.07	0.07	MG/L	2		80	70-130			
BLANK Analyzed: 04/10/2008 (M080411013-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*
LACTIC ACID AND HIBA	0.08	0.1	0.07	MG/L				-			*J*
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: 04/11/2008 (P0803392-01A-MS)						**Source:**					
ACETIC ACID	1.6	0.07	0.04	MG/L	2.14		73	70-130			
BUTYRIC ACID	1.6	0.07	0.06	MG/L	2		80	70-130			
HEXANOIC ACID	1.6	0.1	0.08	MG/L	2		80	70-130			
I-HEXANOIC ACID	1.6	0.1	0.08	MG/L	2		80	70-130			
LACTIC ACID AND HIBA	2.2	0.1	0.07	MG/L	2		110	70-130			
PENTANOIC ACID	1.6	0.07	0.07	MG/L	2		80	70-130			
PROPIONIC ACID	1.6	0.07	0.05	MG/L	2		80	70-130			
PYRUVIC ACID	1.4	0.07	0.07	MG/L	2		70	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 (02/26/08)
1155.006
Report Number: IRC2059

Sampled: 03/26/08
Received: 03/26/08

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: M080411013 Extracted: 04/09/08											
Matrix Spike Duplicate Analyzed: 04/11/2008 (P0803392-01AMSD)						**Source:**					
ACETIC ACID	1.5	0.07	0.04	MG/L	2.14		68	70-130	6		
BUTYRIC ACID	1.6	0.07	0.06	MG/L	2		80	70-130	0		
HEXANOIC ACID	1.5	0.1	0.08	MG/L	2		75	70-130	6		
I-HEXANOIC ACID	1.7	0.1	0.08	MG/L	2		85	70-130	6		
LACTIC ACID AND HIBA	2.1	0.1	0.07	MG/L	2		105	70-130	5		
PENTANOIC ACID	1.5	0.07	0.07	MG/L	2		75	70-130	6		
PROPIONIC ACID	1.5	0.07	0.05	MG/L	2		75	70-130	6		
PYRUVIC ACID	1.5	0.07	0.07	MG/L	2		75	70-130	7		

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Project Manager

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BOE-C6-0188723

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: IRC2059

Sampled: 03/26/08
Received: 03/26/08

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: 080403GC8A Extracted: 04/03/08											
LCS Dup Analyzed: 04/03/2008 (080403GC8A1BD)					**Source: 080403GC8A1BS**						
Methane	710	1.0	0.39	ug/L	654	0	108	70-130	3	30	
Ethane	1,300	1.0	0.50	ug/L	1227	0	107	70-130	3	30	
Ethylene	1,200	1.0	0.33	ug/L	1145	0	103	70-130	2	30	
LCS Analyzed: 04/03/2008 (080403GC8A1BS)					**Source:**						
Methane	730	1.0	0.39	ug/L	654	0	112	70-130			
Ethane	1,300	1.0	0.50	ug/L	1227	0	110	70-130			
Ethylene	1,200	1.0	0.33	ug/L	1145	0	105	70-130			
Blank Analyzed: 04/03/2008 (080403GC8A1LB)					**Source:**						
Methane	ND	1.0	0.39	ug/L				-			
Ethane	ND	1.0	0.50	ug/L				-			
Ethylene	ND	1.0	0.33	ug/L				-			

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: IRC2059

Sampled: 03/26/08
Received: 03/26/08

DATA QUALIFIERS AND DEFINITIONS

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.
JM	[Undefined]
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.
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).
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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BOE-C6-0188724

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: IRC2059

Sampled: 03/26/08
Received: 03/26/08

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: IRC2059-02, IRC2059-03, IRC2059-04, IRC2059-05, IRC2059-06, IRC2059-07

Idaho State University - Dept. of Bio Sci - MRCF
650 Memorial Drive - Pocatello, ID 83209
Analysis Performed: DHC Assay
Samples: IRC2059-02, IRC2059-03, IRC2059-04, IRC2059-05, IRC2059-06, IRC2059-07

ISU Molecular
Method Performed: qPCR TaqMan assay
Samples: IRC2059-02, IRC2059-03, IRC2059-04, IRC2059-05, IRC2059-06, IRC2059-07

Method Performed: Universal Bacterial PCR
Samples: IRC2059-02, IRC2059-03, IRC2059-04, IRC2059-05, IRC2059-06, IRC2059-07

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: IRC2059

Sampled: 03/26/08
Received: 03/26/08

Microseeps-SUB
220 William Pitt Way - Pittsburgh, PA 15238

Method Performed: AM23G ACETIC
Samples: IRC2059-02, IRC2059-03, IRC2059-04, IRC2059-05, IRC2059-06, IRC2059-07

Method Performed: AM23G BUTYRIC
Samples: IRC2059-02, IRC2059-03, IRC2059-04, IRC2059-05, IRC2059-06, IRC2059-07

Method Performed: AM23G HEXANOIC
Samples: IRC2059-02, IRC2059-03, IRC2059-04, IRC2059-05, IRC2059-06, IRC2059-07

Method Performed: AM23G I-HEXANOIC
Samples: IRC2059-02, IRC2059-03, IRC2059-04, IRC2059-05, IRC2059-06, IRC2059-07

Method Performed: AM23G I-PENTANOIC
Samples: IRC2059-02, IRC2059-03, IRC2059-04, IRC2059-05, IRC2059-06, IRC2059-07

Method Performed: AM23G LACTIC AND HIBA
Samples: IRC2059-02, IRC2059-03, IRC2059-04, IRC2059-05, IRC2059-06, IRC2059-07

Method Performed: AM23G PENTANOIC
Samples: IRC2059-02, IRC2059-03, IRC2059-04, IRC2059-05, IRC2059-06, IRC2059-07

Method Performed: AM23G PROPIONIC
Samples: IRC2059-02, IRC2059-03, IRC2059-04, IRC2059-05, IRC2059-06, IRC2059-07

Method Performed: AM23G PYRUVIC
Samples: IRC2059-02, IRC2059-03, IRC2059-04, IRC2059-05, IRC2059-06, IRC2059-07

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-C6-0188725

IRC2059

BOEING

CHAIN OF CUSTODY RECORD

COC #: AVO20080326A

Page: 1 of 1

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. 2 Groundwater S
Project Number: 1155.006
Project Manager: Michael Rendina
PM Phone #: (949) 933-6031
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
Contact #:

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_AVO20080326_01	Water	3/26/2008	0:00	6								10	
IRZCMW002_WG20080326_01	Water	3/26/2008	7:10	15	10	10	10		10	10	10	10	
CMW026_WG20080326_01	Water	3/26/2008	8:00	15	10	10	10		10	10	10	10	
IRZCMW003_WG20080326_01	Water	3/26/2008	8:36	15	10	10	10		10	10	10	10	
IRZCMW001_WG20080326_01	Water	3/26/2008	9:07	15	10	10	10	10	10	10	10	10	
MWC024_WG20080326_01	Water	3/26/2008	9:47	15	10	10	10		10	10	10	10	
CMW002_WG20080326_01	Water	3/26/2008	10:26	15	10	10	10	10	10	10	10	10	

Boeing PM:

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.

Inlet 2.9/0.9°C

1. Relinquished by:	Date:	2. Received by:	Date:	3. Relinquished by:	Date:	4. Received by:	Date:
David Lieberman	3/26/2008		3/26/08		3/26/08		3/26/08
Company: Avocet Environmental, Inc.	Time: 14:07	Company: TAI	Time: 1401	Company: TAI	Time: 1500	Company: TAI	Time: 1500

Comments:

Geotracker EDF
Data Validation Package

028

Page 1 of 4
A8032703

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: IRC2059
Lab Number: A8032703-01/06

Enclosed are results for sample(s) received 3/27/08 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.

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

SUBCONTRACT ORDER

TestAmerica Irvine

IRC2059

A8032703-01/06

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: 4 °C Ice: (Y) / N

Analysis	Units	Due	Expires	Comments
Sample ID: IRC2059-02	**Water**		Sampled: **03/26/08 07:10**	-01
Diss. Gasses-OUT	~~mg/l~~ ug/L	04/09/08	04/09/08 07:10	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: IRC2059-03	**Water**		Sampled: **03/26/08 08:00**	-02
Diss. Gasses-OUT	mg/l	04/09/08	04/09/08 08:00	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: IRC2059-04	**Water**		Sampled: **03/26/08 08:36**	-03
Diss. Gasses-OUT	mg/l	04/09/08	04/09/08 08:36	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: IRC2059-05	**Water**		Sampled: **03/26/08 09:07**	-04
Diss. Gasses-OUT	mg/l	04/09/08	04/09/08 09:07	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: IRC2059-06	**Water**		Sampled: **03/26/08 09:47**	-05
Diss. Gasses-OUT	mg/l	04/09/08	04/09/08 09:47	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
TAI	3/27/08 0700	TAI	3/27/08 0700
TAI	3/27/08 0923		3/27/08 0923

SUBCONTRACT ORDER

TestAmerica Irvine

IRC2059

A8032703-01/06

Analysis	Units	Due	Expires	Comments
Sample ID: IRC2059-07	**Water**		Sampled: **03/26/08 10:26**	-06
Diss. Gasses-OUT	mg/l	04/09/08	04/09/08 10:26	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-C6-0188727

Client: TestAmerica
Attn: Trupti Mistry

Client's Project: IRC2059
Date Received: 3/27/2008
Matrix: Water
Units: ug/L

Dissolved Gases by EPA Procedure RSKSOP-175

Lab No.:			A8032703-01		A8032703-02		A8032703-03		A8032703-04		A8032703-05	
Client Sample I.D.:			IRC2059-02		IRC2059-03		IRC2059-04		IRC2059-05		IRC2059-06	
Date Sampled:			3/26/2008		3/26/2008		3/26/2008		3/26/2008		3/26/2008	
Date Analyzed:			4/3/2008		4/3/2008		4/3/2008		4/3/2008		4/3/2008	
Analyst Initials:			DT		DT		DT		DT		DT	
Data File:			03apr006		03apr007		03apr008		03apr009		03apr011	
QC Batch:			080403GC8A1		080403GC8A1		080403GC8A1		080403GC8A1		080403GC8A1	
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	23,000	1.0	21,000	1.0	14,000	1.0	1.3	1.0	3,200
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	46	1.0	6.0	1.0	8.6	1.0	ND	1.0	ND

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

Reviewed/Approved By: Mark J. Johnson, Operations Manager Date: 4/8/08

The cover letter is an integral part of this analytical report

Client: TestAmerica
Attn: Trupti Mistry

Client's Project: IRC2059
Date Received: 3/27/2008
Matrix: Water
Units: ug/L

Dissolved Gases by EPA Procedure RSKSOP-175

Lab No.:			A8032703-06									
Client Sample I.D.:			IRC2059-07									
Date Sampled:			3/26/2008									
Date Analyzed:			4/3/2008									
Analyst Initials:			DT									
Data File:			03apr012									
QC Batch:			080403GC8A1									
Dilution Factor:			1.0									
ANALYTE	PQL	MDL	RL	Results								
Methane	1.0	0.39	1.0	2.0								
Ethane	1.0	0.50	1.0	ND								
Ethylene	1.0	0.33	1.0	ND								

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

Reviewed/Approved By: Mark J. Johnson, Operations Manager Date: 4/8/08

The cover letter is an integral part of this analytical report

BOE-C6-0188728

QC Batch No.: 080403GC8A1
Matrix: Water
Units: ug/L

QC for Dissolved Gases by EPA Procedure RSKSOP-175

Lab No.:			Method Blank		LCS		LCSD			
Date Analyzed:			04/03/08		04/03/08		04/03/08			
Analyst Initials:			DT		DT		DT			
Datafile:			03apr005		03apr003		03apr004			
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	ND	112	70-130%	108	70-130%	3.4	<30
Ethane	1.0	0.50	1.0	ND	110	70-130%	107	70-130%	2.8	<30
Ethylene	1.0	0.33	1.0	ND	105	70-130%	103	70-130%	2.4	<30

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

Reviewed/Approved By: Mark J. Johnson, Operations Manager Date: 4/8/08

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 10
Lab Proj #: P0803392
Report Date: 04/11/08
Client Proj Name: IRC2059
Client Proj #: IRC2059

Laboratory Results

Total pages in data package: 38

Lab Sample #	Client Sample ID
P0803392-01	IRC2059-02
P0803392-02	IRC2059-03
P0803392-03	IRC2059-04
P0803392-04	IRC2059-05
P0803392-05	IRC2059-06
P0803392-06	IRC2059-07

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 (RMW) Date: 4/11/08

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

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

Page: Page 2 of 10
Lab Proj #: P0803392
Report Date: 04/11/08
Client Proj Name: IRC2059
Client Proj #: IRC2059

Case Narrative: The percent recovery on the MSD for Acetic Acid is outside the criteria All other QA/QC requirements were acceptable.

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

Page: Page 3 of 10
Lab Proj #: P0803392
Report Date: 04/11/08
Client Proj Name: IRC2059
Client Proj #: IRC2059

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
IRC2059-02	Water	P0803392-01	26 Mar. 08 7:10	28 Mar. 08 11:09

Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	By
SemiVolatiles							
N Acetic Acid	M	0.14	0.07	mg/L	AM23G	4/11/08	jb
N Butyric Acid	U	< 0.07	0.07	mg/L	AM23G	4/11/08	jb
N Hexanoic Acid	U	< 0.10	0.10	mg/L	AM23G	4/11/08	jb
N i-Hexanoic Acid	U	< 0.10	0.10	mg/L	AM23G	4/11/08	jb
N i-Pentanoic Acid	U	< 0.07	0.07	mg/L	AM23G	4/11/08	jb
N Lactic Acid and HIBA	U	< 0.10	0.10	mg/L	AM23G	4/11/08	jb
N Pentanoic Acid	U	< 0.07	0.07	mg/L	AM23G	4/11/08	jb
N Propionic Acid	U	< 0.07	0.07	mg/L	AM23G	4/11/08	jb
N Pyruvic Acid	U	< 0.07	0.07	mg/L	AM23G	4/11/08	jb

BOE-C6-0188730

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

Page: Page 4 of 10
Lab Proj #: P0803392
Report Date: 04/11/08
Client Proj Name: IRC2059
Client Proj #: IRC2059

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
IRC2059-03	Water	P0803392-02	26 Mar 08 8:00	28 Mar. 08 11:09

Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	By
SemiVolatiles							
N Acetic Acid	JM	0 06	0.07	mg/L	AM23G	4/11/08	jb
N Butyric Acid	U	< 0 07	0.07	mg/L	AM23G	4/11/08	jb
N Hexanoic Acid	U	< 0.10	0 10	mg/L	AM23G	4/11/08	jb
N i-Hexanoic Acid	U	< 0.10	0.10	mg/L	AM23G	4/11/08	jb
N i-Pentanoic Acid	U	< 0.07	0.07	mg/L	AM23G	4/11/08	jb
N Lactic Acid and HIBA	U	< 0.10	0.10	mg/L	AM23G	4/11/08	jb
N Pentanoic Acid	U	< 0 07	0.07	mg/L	AM23G	4/11/08	jb
N Propionic Acid	U	< 0.07	0.07	mg/L	AM23G	4/11/08	jb
N Pyruvic Acid	U	< 0.07	0.07	mg/L	AM23G	4/11/08	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

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

Page: Page 5 of 10
Lab Proj #: P0803392
Report Date: 04/11/08
Client Proj Name: IRC2059
Client Proj #: IRC2059

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
IRC2059-04	Water	P0803392-03	26 Mar. 08 8:36	28 Mar. 08 11:09

Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	By
SemiVolatiles							
N Acetic Acid	UM	< 0.07	0.07	mg/L	AM23G	4/11/08	jb
N Butyric Acid	U	< 0.07	0.07	mg/L	AM23G	4/11/08	jb
N Hexanoic Acid	U	< 0.10	0.10	mg/L	AM23G	4/11/08	jb
N i-Hexanoic Acid	U	< 0.10	0.10	mg/L	AM23G	4/11/08	jb
N i-Pentanoic Acid	U	< 0 07	0.07	mg/L	AM23G	4/11/08	jb
N Lactic Acid and HIBA	U	< 0.10	0.10	mg/L	AM23G	4/11/08	jb
N Pentanoic Acid	U	< 0 07	0.07	mg/L	AM23G	4/11/08	jb
N Propionic Acid	U	< 0.07	0.07	mg/L	AM23G	4/11/08	jb
N Pyruvic Acid	U	< 0 07	0.07	mg/L	AM23G	4/11/08	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-C6-0188731

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

Page: Page 6 of 10
Lab Proj #: P0803392
Report Date: 04/11/08
Client Proj Name: IRC2059
Client Proj #: IRC2059

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
IRC2059-05	Water	P0803392-04	26 Mar. 08 9:07	28 Mar. 08 11:09

Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	By
SemiVolatiles							
N Acetic Acid	UM	< 0.07	0.07	mg/L	AM23G	4/11/08	jb
N Butyric Acid	U	< 0.07	0.07	mg/L	AM23G	4/11/08	jb
N Hexanoic Acid	U	< 0.10	0.10	mg/L	AM23G	4/11/08	jb
N i-Hexanoic Acid	U	< 0.10	0.10	mg/L	AM23G	4/11/08	jb
N i-Pentanoic Acid	U	< 0.07	0.07	mg/L	AM23G	4/11/08	jb
N Lactic Acid and HIBA	U	< 0.10	0.10	mg/L	AM23G	4/11/08	jb
N Pentanoic Acid	U	< 0.07	0.07	mg/L	AM23G	4/11/08	jb
N Propionic Acid	U	< 0.07	0.07	mg/L	AM23G	4/11/08	jb
N Pyruvic Acid	U	< 0.07	0.07	mg/L	AM23G	4/11/08	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

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

Page: Page 7 of 10
Lab Proj #: P0803392
Report Date: 04/11/08
Client Proj Name: IRC2059
Client Proj #: IRC2059

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
IRC2059-06	Water	P0803392-05	26 Mar. 08 9:47	28 Mar. 08 11:09

Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	By
SemiVolatiles							
N Acetic Acid	UM	< 0.07	0.07	mg/L	AM23G	4/11/08	jb
N Butyric Acid	U	< 0.07	0.07	mg/L	AM23G	4/11/08	jb
N Hexanoic Acid	U	< 0.10	0.10	mg/L	AM23G	4/11/08	jb
N i-Hexanoic Acid	U	< 0.10	0.10	mg/L	AM23G	4/11/08	jb
N i-Pentanoic Acid	U	< 0.07	0.07	mg/L	AM23G	4/11/08	jb
N Lactic Acid and HIBA	U	< 0.10	0.10	mg/L	AM23G	4/11/08	jb
N Pentanoic Acid	U	< 0.07	0.07	mg/L	AM23G	4/11/08	jb
N Propionic Acid	U	< 0.07	0.07	mg/L	AM23G	4/11/08	jb
N Pyruvic Acid	U	< 0.07	0.07	mg/L	AM23G	4/11/08	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-C6-0188732

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

Page: Page 8 of 10
Lab Proj #: P0803392
Report Date: 04/11/08
Client Proj Name: IRC2059
Client Proj #: IRC2059

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
IRC2059-07	Water	P0803392-06	26 Mar. 08 10:26	28 Mar. 08 11:09

Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	By
SemiVolatiles							
N Acetic Acid	JM	0.05	0.07	mg/L	AM23G	4/11/08	jb
N Butyric Acid	U	< 0.07	0.07	mg/L	AM23G	4/11/08	jb
N Hexanoic Acid	U	< 0.10	0.10	mg/L	AM23G	4/11/08	jb
N i-Hexanoic Acid	U	< 0.10	0.10	mg/L	AM23G	4/11/08	jb
N i-Pentanoic Acid	U	< 0.07	0.07	mg/L	AM23G	4/11/08	jb
N Lactic Acid and HIBA	U	< 0.10	0.10	mg/L	AM23G	4/11/08	jb
N Pentanoic Acid	U	< 0.07	0.07	mg/L	AM23G	4/11/08	jb
N Propionic Acid	U	< 0.07	0.07	mg/L	AM23G	4/11/08	jb
N Pyruvic Acid	U	< 0.07	0.07	mg/L	AM23G	4/11/08	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

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

Page: Page 9 of 10
Lab Proj #: P0803392
Report Date: 04/11/08
Client Proj Name: IRC2059
Client Proj #: IRC2059

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

M080411013-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
i-Hexanoic Acid	< 0.10	mg/L		0.10		- NA
Hexanoic Acid	< 0.10	mg/L		0.10		- NA

M080411013-LCS

	Result		TrueSpikeConc.	%Recovery	Ctl Limits
Acetic Acid	1.50	mg/L	2.00	75.00	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	1.90	mg/L	2.00	95.00	70 - 130
Pyruvic Acid	1.60	mg/L	2.00	80.00	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	1.70	mg/L	2.00	85.00	70 - 130
Hexanoic Acid	1.70	mg/L	2.00	85.00	70 - 130

P0803392-01A-MS

	Result		TrueSpikeConc.	%Recovery	Ctl Limits
Acetic Acid	1.60	mg/L	2.00	73.00	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	2.20	mg/L	2.00	110.00	70 - 130
Pyruvic Acid	1.40	mg/L	2.00	70.00	70 - 130
i-Pentanoic Acid	1.50	mg/L	2.00	75.00	70 - 130
Pentanoic Acid	1.60	mg/L	2.00	80.00	70 - 130
i-Hexanoic Acid	1.60	mg/L	2.00	80.00	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-C6-0188733

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

Page: Page 10 of 10
Lab Proj #: P0803392
Report Date: 04/11/08
Client Proj Name: IRC2059
Client Proj #: IRC2059

P0803392-01A-MS

	Result		TrueSpikeConc.	%Recovery	Ctl Limits
Hexanoic Acid	1.60	mg/L	2.00	80.00	70 - 130

P0803392-01A-MSD

	Result		TrueSpikeConc.	%Recovery	Ctl Limits	RPD	RPD Ctl Limits
Acetic Acid	1.50	mg/L	2.00	68.00	70 - 130	6.45	0 - 30
Propionic Acid	1.50	mg/L	2.00	75.00	70 - 130	6.45	0 - 30
Butyric Acid	1.60	mg/L	2.00	80.00	70 - 130	0.00	0 - 30
Lactic Acid and HIBA	2.10	mg/L	2.00	105.00	70 - 130	4.65	0 - 30
Pyruvic Acid	1.50	mg/L	2.00	75.00	70 - 130	6.90	0 - 30
i-Pentanoic Acid	1.70	mg/L	2.00	85.00	70 - 130	12.50	0 - 30
Pentanoic Acid	1.50	mg/L	2.00	75.00	70 - 130	6.45	0 - 30
i-Hexanoic Acid	1.70	mg/L	2.00	85.00	70 - 130	6.06	0 - 30
Hexanoic Acid	1.50	mg/L	2.00	75.00	70 - 130	6.45	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

Chain of Custody Documents

BOE-C6-0188734

SUBCONTRACT ORDER

TestAmerica Irvine

IRC2059

P0803392

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: IRC2059-02	**Water**		**Sampled: 03/26/08 07:10**	
VFA-Microseeps OUT	mg/l	04/09/08	04/02/08 07:10	Microseeps; IC; J&Bflags;TestAmerica excel EDD
Containers Supplied:				
40 mL Amber Voa Vial (K)	40 mL Amber Voa Vial (L)			
Sample ID: IRC2059-03	**Water**		**Sampled: 03/26/08 08:00**	
VFA-Microseeps OUT	mg/l	04/09/08	04/02/08 08:00	Microseeps; IC; J&Bflags;TestAmerica excel EDD
Containers Supplied:				
40 mL Amber Voa Vial (K)	40 mL Amber Voa Vial (L)			
Sample ID: IRC2059-04	**Water**		**Sampled: 03/26/08 08:36**	
VFA-Microseeps OUT	mg/l	04/09/08	04/02/08 08:36	Microseeps; IC; J&Bflags;TestAmerica excel EDD
Containers Supplied:				
40 mL Amber Voa Vial (K)	40 mL Amber Voa Vial (L)			
Sample ID: IRC2059-05	**Water**		**Sampled: 03/26/08 09:07**	
VFA-Microseeps OUT	mg/l	04/09/08	04/02/08 09:07	Microseeps; IC; J&Bflags;TestAmerica excel EDD
Containers Supplied:				
40 mL Amber Voa Vial (K)	40 mL Amber Voa Vial (L)			
Sample ID: IRC2059-06	**Water**		**Sampled: 03/26/08 09:47**	
VFA-Microseeps OUT	mg/l	04/09/08	04/02/08 09:47	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
	3/27/08 17:00	FedEx	3/27/08 17:00
			12/28

SUBCONTRACT ORDER

TestAmerica Irvine

IRC2059

P0803392

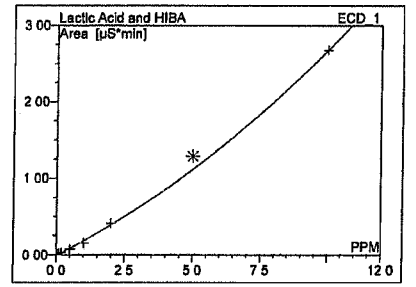
Analysis	Units	Due	Expires	Comments
Sample ID: IRC2059-07	**Water**		**Sampled: 03/26/08 10:26**	
VFA-Microseeps OUT	mg/l	04/09/08	04/02/08 10:26	Microseeps; IC; J&Bflags;TestAmerica excel EDD
Containers Supplied:				
40 mL Amber Voa Vial (K)	40 mL Amber Voa Vial (L)			

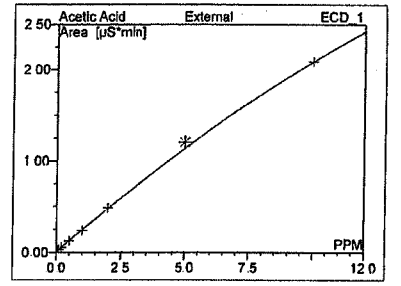
BOE-C6-0188735

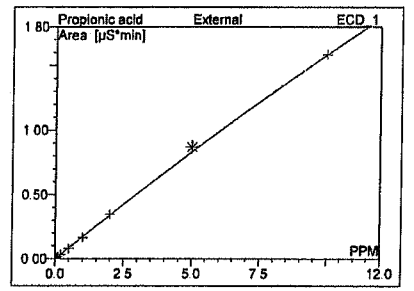
Volatile Fatty Acid Data

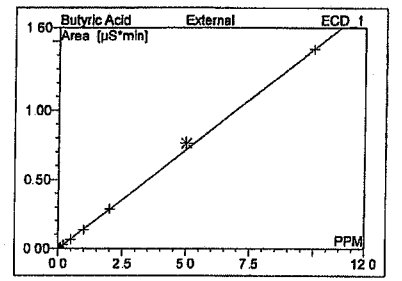
Calibration Batch Report

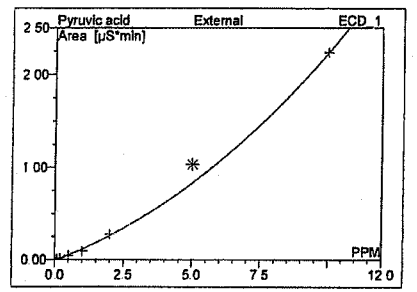
Sequence:	LLVFA 120507	Inj. Vol.:	1.0
Program:	PWM0707 16AA	Operator:	SEMIVOL13
Inj. Date/Time:	12/05/07	Run Time:	30.00

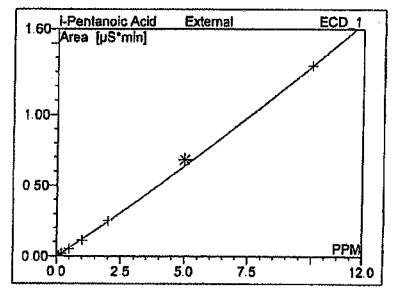






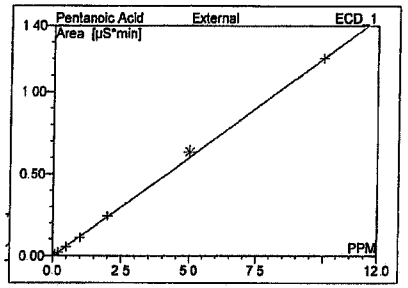


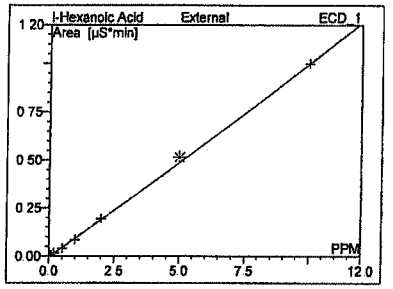


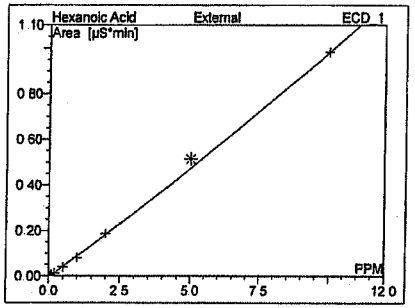


BOE-C6-0188736

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







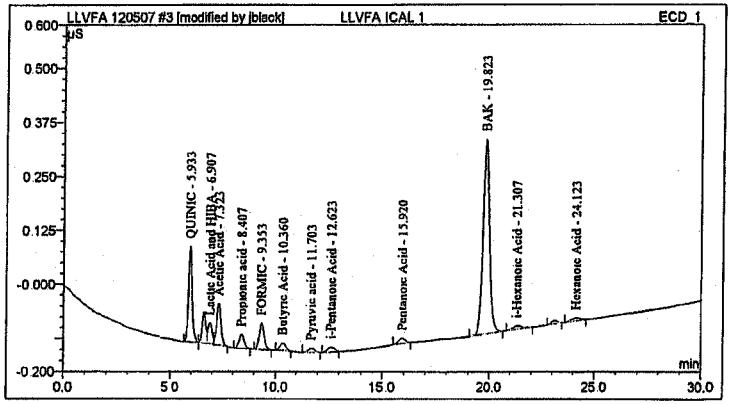
Peak Name	Cal.Mode	Cal.Type	Slope	#Points	Rel.Std.Dev. %	R-Square %
QUINIC	Total	QOff	0.000	7	n.a.	n.a.
Lactic Acid and HIBA	Total	QOff	0.181	7	4.070	99.973
Acetic Acid	Total	QOff	0.244	7	1.339	99.996
Propionic acid	Total	QOff	0.176	7	1.877	99.993
FORMIC	Total	QOff	0.000	7	n.a.	n.a.
Butyric Acid	Total	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-C6-0188737

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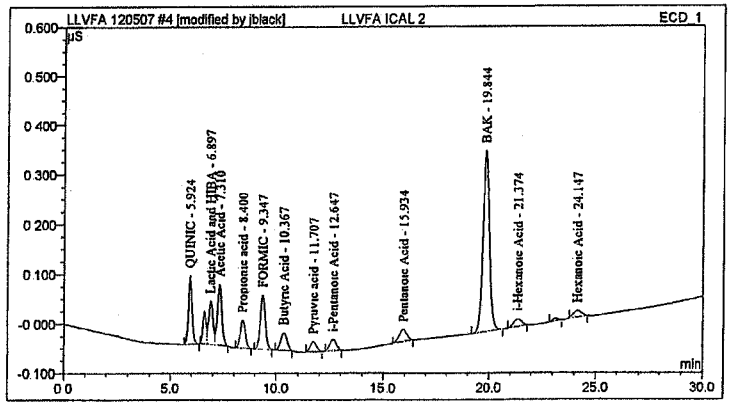
Sample Analysis Report

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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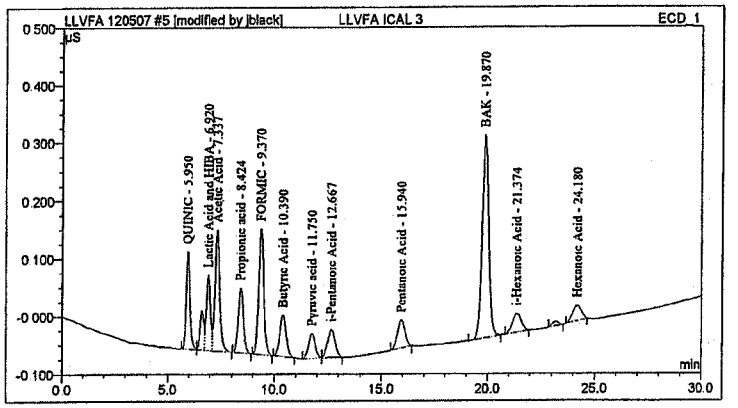
Sample Analysis Report

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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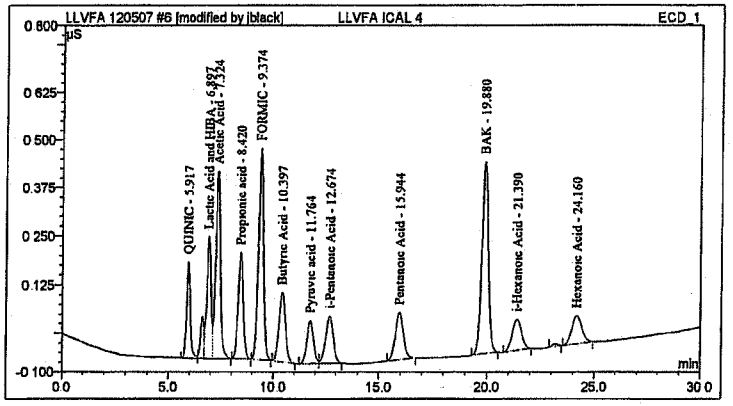
Sample Analysis Report

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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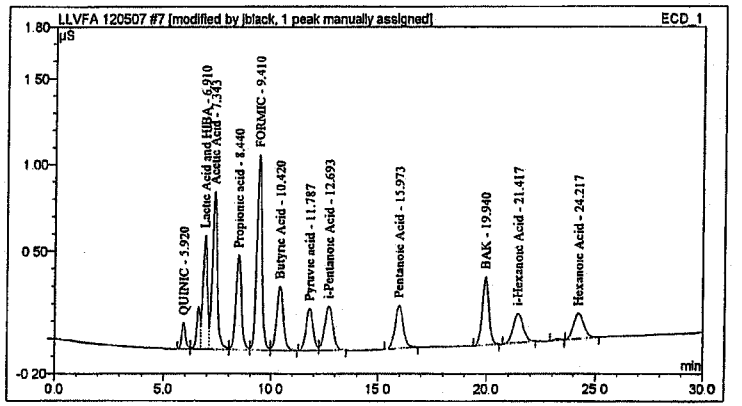
Sample Analysis Report

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	0.065	0.167	BMB	0.9348
14	Hexanoic Acid	24.217	0.081	0.146	BMB	0.9248



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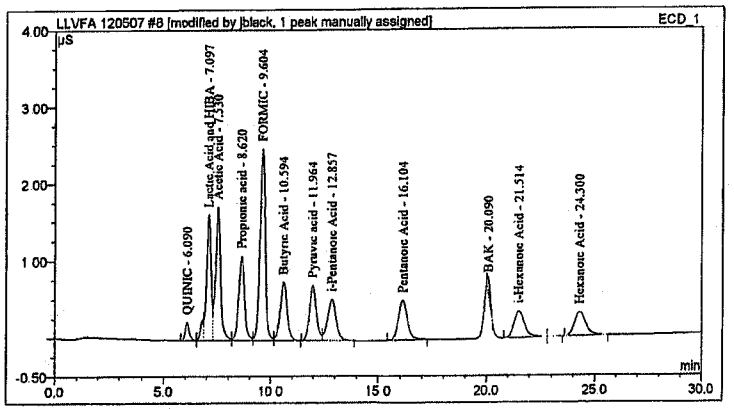
Sample Analysis Report

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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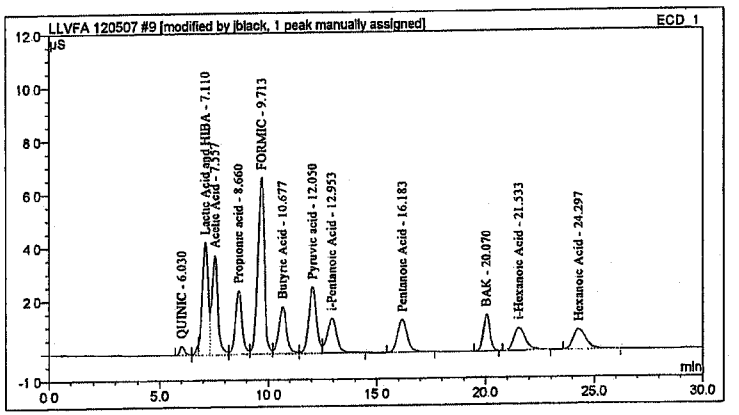
Sample Analysis Report

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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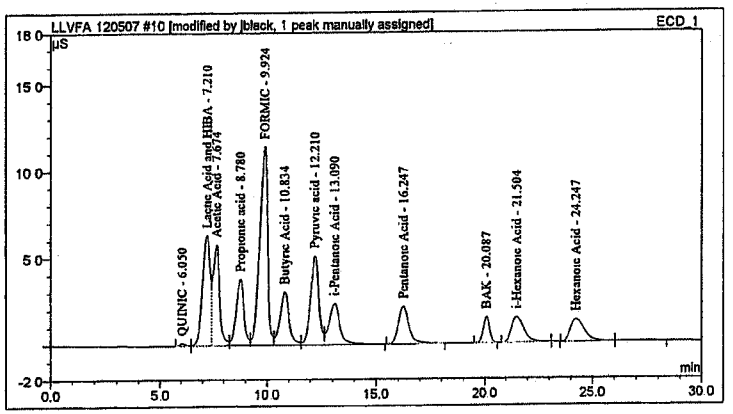
Sample Analysis Report

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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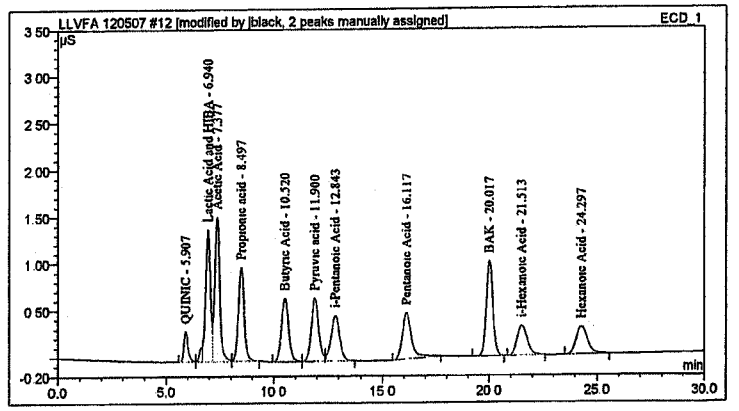
Sample Analysis Report

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



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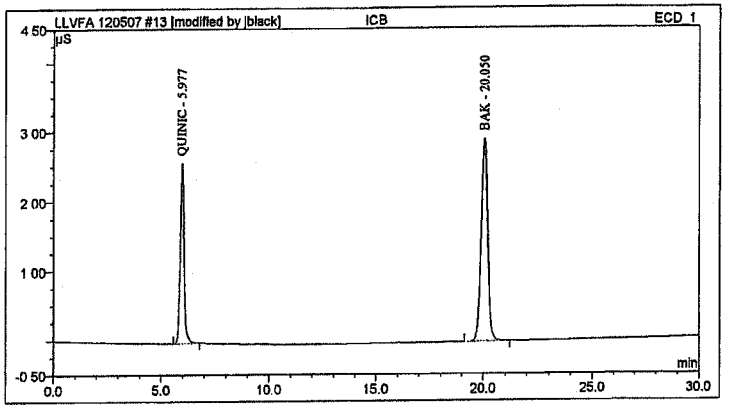
Sample Analysis Report

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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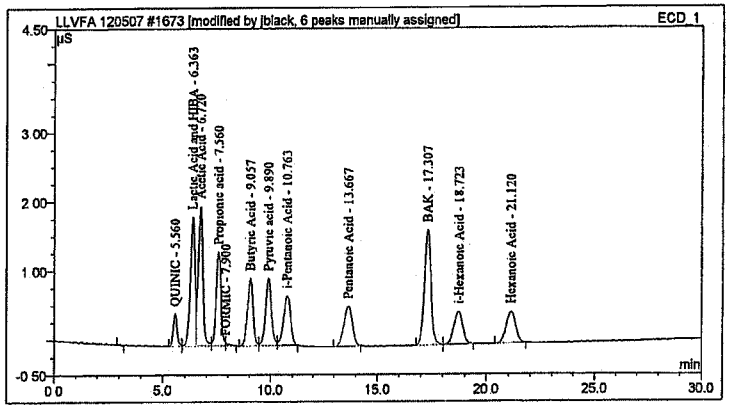
Sample Analysis Report

Sample Name:	CCV	**Sequence No:**	1673
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:	4/10/2008 2:58 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	5.560	0.096	0.469	BM *^	n.a.
3	Lactic Acid and HIBA	6.363	0.453	1.866	M *	2.2951
4	Acetic Acid	6.720	0.488	2.020	M *^	2.0410
5	Propionic acid	7.560	0.357	1.357	M *	2.0983
6	FORMIC	7.900	0.007	0.035	MB*	n.a.
7	Butyric Acid	9.057	0.303	0.978	BM ^	2.1307
8	Pyruvic acid	9.890	0.304	0.971	M ^	2.2787
9	i-Pentanoic Acid	10.763	0.265	0.710	MB^	2.1612
10	Pentanoic Acid	13.667	0.259	0.575	BMB^	2.1724
11	BAK	17.307	0.574	1.665	BMB	n.a.
12	i-Hexanoic Acid	18.723	0.213	0.465	BMB	2.2491
13	Hexanoic Acid	21.120	0.221	0.452	BMB*	2.3940



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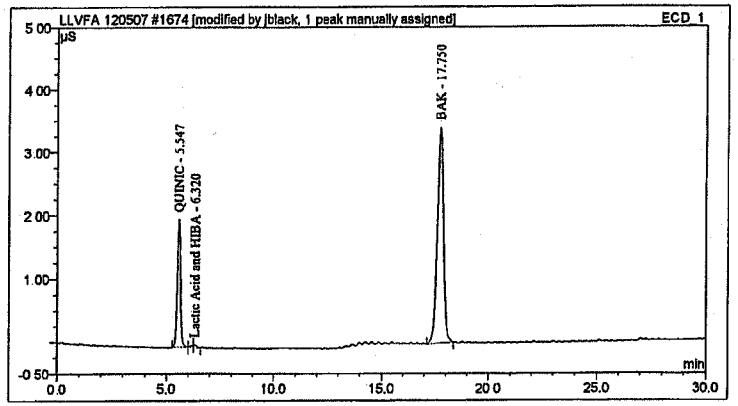
Sample Analysis Report

Sample Name:	CCB	**Sequence No:**	1674
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:	4/10/2008 3:39 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	5.547	0.367	2.015	BMB	n.a.
3	Lactic Acid and HIBA	6.320	0.006	0.037	MB*	0.0824
4	BAK	17.750	1.159	3.412	BMB*	n.a.



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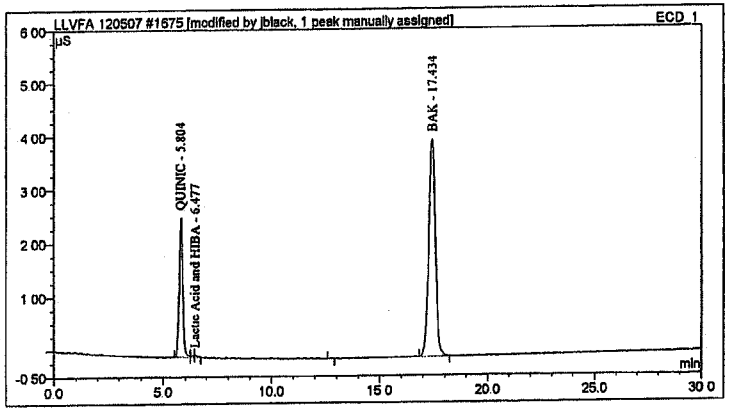
Sample Analysis Report

Sample Name:	M080409027-MB	**Sequence No:**	1675
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:	4/10/2008 4:20 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	5.804	0.499	2.610	BM	n.a.
3	Lactic Acid and HIBA	6.477	0.007	0.038	MB*	0.0833
5	BAK	17.434	1.427	4.054	BMB	n.a.



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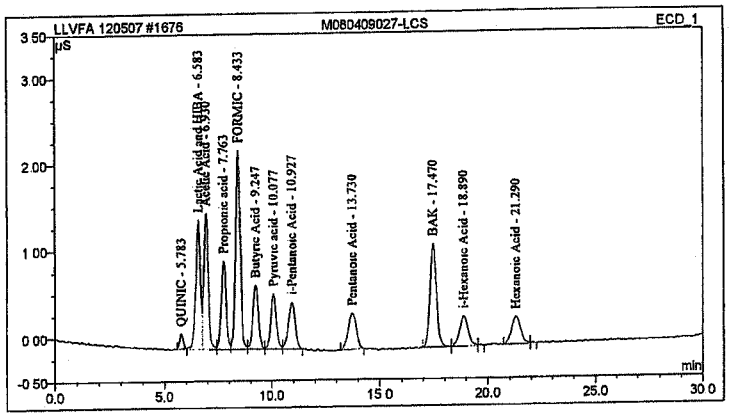
Sample Analysis Report

Sample Name:	M080409027-LCS	**Sequence No:**	1676
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:	4/10/2008 5:01 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	5.783	0.031	0.174	Ru	n.a.
2	Lactic Acid and HIBA	6.583	0.372	1.488	BM	1.9239
3	Acetic Acid	6.930	0.372	1.559	M	1.5402
4	Propionic acid	7.763	0.266	1.010	M	1.5627
5	FORMIC	8.433	0.567	2.290	M	n.a.
6	Butyric Acid	9.247	0.225	0.736	M	1.5906
7	Pyruvic acid	10.077	0.193	0.631	M	1.5699
8	i-Pentanoic Acid	10.927	0.192	0.534	MB	1.5877
9	Pentanoic Acid	13.730	0.181	0.416	BMB	1.5351
10	BAK	17.470	0.407	1.181	BM	n.a.
11	i-Hexanoic Acid	18.890	0.157	0.340	M	1.6666
13	Hexanoic Acid	21.290	0.155	0.315	BM	1.7025

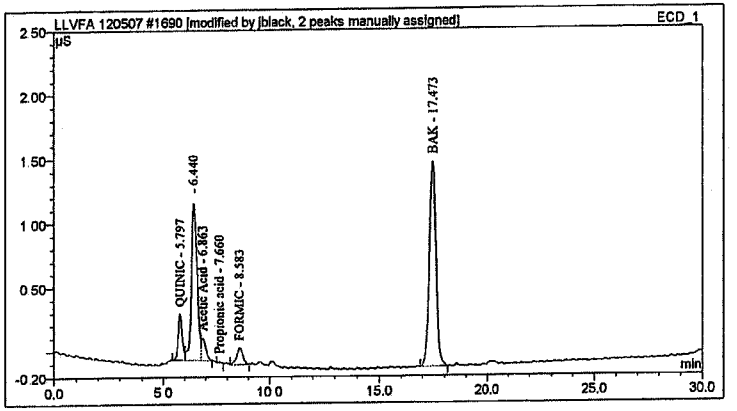


MICROSEEPS

Sample Analysis Report

Sample Name:	P0803392-01A	**Sequence No:**	1690
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:	4/11/2008 2:36 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	5.797	0.080	0.360	BM ^	n.a.
3	Acetic Acid	6.863	0.038	0.172	MB*	0.1400
4	Propionic acid	7.660	0.002	0.013	BMB	0.0369
5	FORMIC	8.583	0.044	0.128	BMB	n.a.
6	BAK	17.473	0.550	1.599	BMB	n.a.



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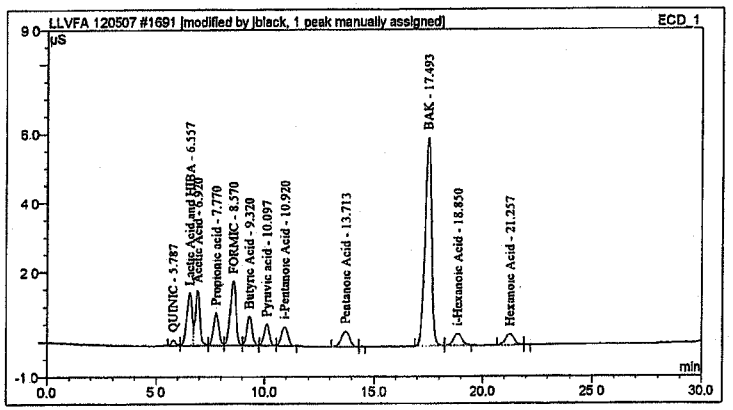
Sample Analysis Report

Sample Name:	P0803392-01A-MS	**Sequence No:**	1691
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:	4/11/2008 3:18 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
1	QUINIC	5.787	0.037	0.151	BM ^	n.a.
2	Lactic Acid and HIBA	6.557	0.429	1.494	M	2.1843
3	Acetic Acid	6.920	0.389	1.557	M	1.6128
4	Propionic acid	7.770	0.272	0.925	M	1.5959
5	FORMIC	8.570	0.578	1.836	M	n.a.
6	Butyric Acid	9.320	0.224	0.822	MB	1.5816
7	Pyruvic acid	10.097	0.168	0.598	BM	1.3918
8	i-Pentanoic Acid	10.920	0.185	0.530	MB	1.5332
9	Pentanoic Acid	13.713	0.194	0.432	BM	1.6402
11	BAK	17.493	2.100	5.997	BMB	n.a.
12	i-Hexanoic Acid	18.850	0.150	0.327	BMB	1.6036
13	Hexanoic Acid	21.257	0.148	0.303	BM	1.6351

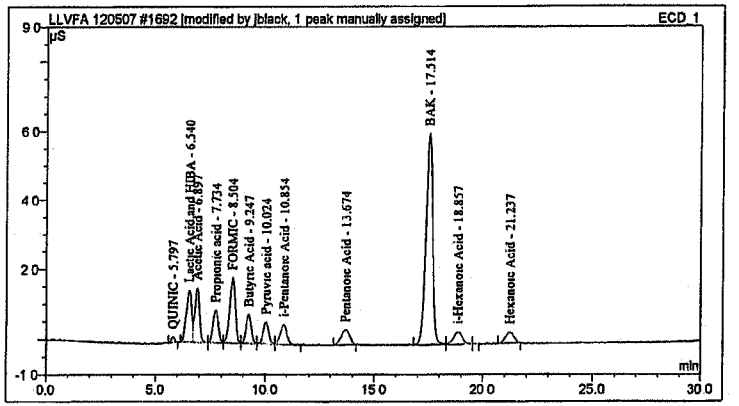


MICROSEEPS

Sample Analysis Report

Sample Name:	P0803392-01A-MSD	**Sequence No:**	1692
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:	4/11/2008 3:59 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	5.797	0.027	0.147	BMB^	n.a.
2	Lactic Acid and HIBA	6.540	0.409	1.483	BM	2.0942
3	Acetic Acid	6.897	0.374	1.551	MB	1.5461
4	Propionic acid	7.734	0.257	0.925	BM *	1.5089
5	FORMIC	8.504	0.573	1.861	M *	n.a.
6	Butyric Acid	9.247	0.229	0.831	M *	1.6198
7	Pyruvic acid	10.024	0.180	0.610	M *	1.4771
8	i-Pentanoic Acid	10.854	0.204	0.554	MB*	1.6832
9	Pentanoic Acid	13.674	0.182	0.415	BMB	1.5394
10	BAK	17.514	2.147	6.072	BM	n.a.
11	i-Hexanoic Acid	18.857	0.161	0.341	M	1.7170
13	Hexanoic Acid	21.237	0.133	0.299	BMB	1.4749



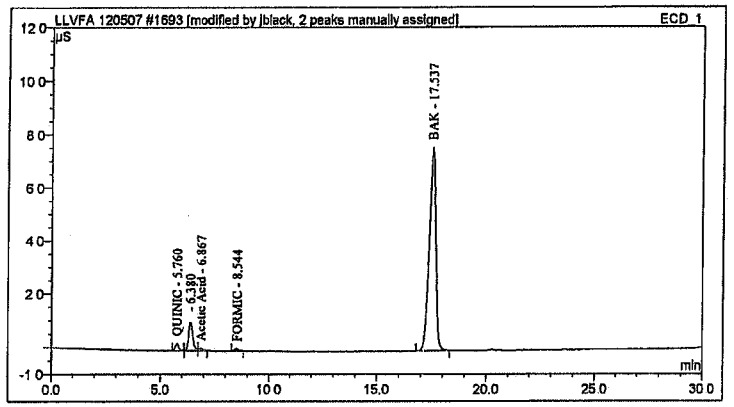
BOE-C6-0188745

MICROSEEPS

Sample Analysis Report

Sample Name:	P0803392-02A	**Sequence No:**	1693
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:	4/11/2008 4:40 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	5.760	0.050	0.260	BM ^	n.a.
3	Acetic Acid	6.867	0.019	0.080	MB	0.0616
4	FORMIC	8.544	0.017	0.065	BMB	n.a.
5	BAK	17.537	2.703	7.642	BMB	n.a.

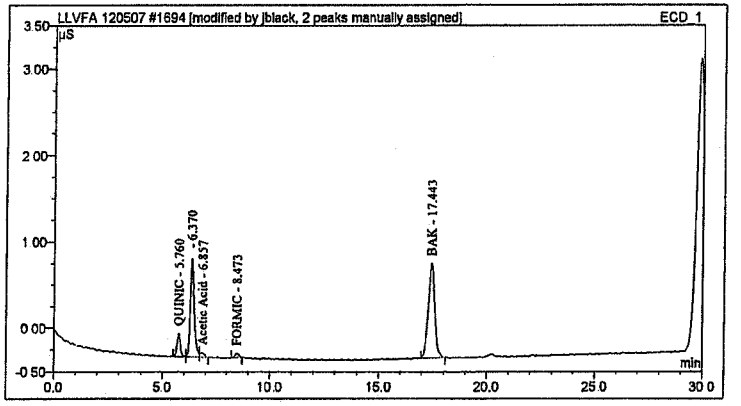


MICROSEEPS

Sample Analysis Report

Sample Name:	P0803392-03A	**Sequence No:**	1694
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:	4/11/2008 5:21 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	5.760	0.048	0.261	BM ^	n.a.
3	Acetic Acid	6.857	0.013	0.051	MB	0.0344
4	FORMIC	8.473	0.011	0.049	BMB	n.a.
5	BAK	17.443	0.375	1.093	BMB	n.a.



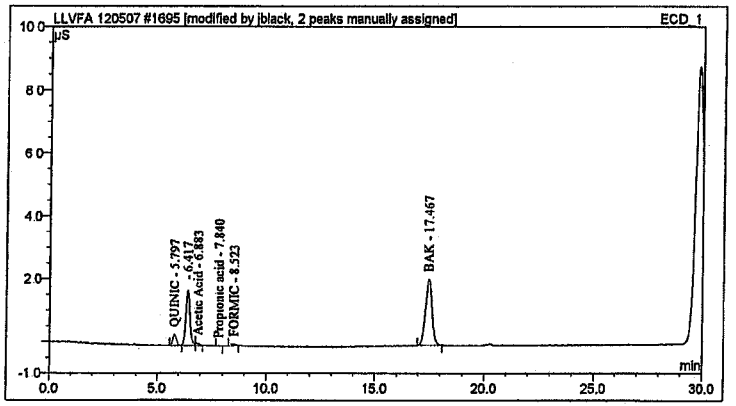
BOE-C6-0188746

MICROSEEPS

Sample Analysis Report

Sample Name:	P0803392-04A	**Sequence No:**	1695
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:	4/11/2008 6:02 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	5.797	0.066	0.335	Ru^	n.a.
3	Acetic Acid	6.883	0.014	0.068	MB	0.0394
4	Propionic acid	7.840	0.002	0.012	BMB	0.0358
5	FORMIC	8.523	0.011	0.048	BMB	n.a.
6	BAK	17.467	0.721	2.097	BMB	n.a.

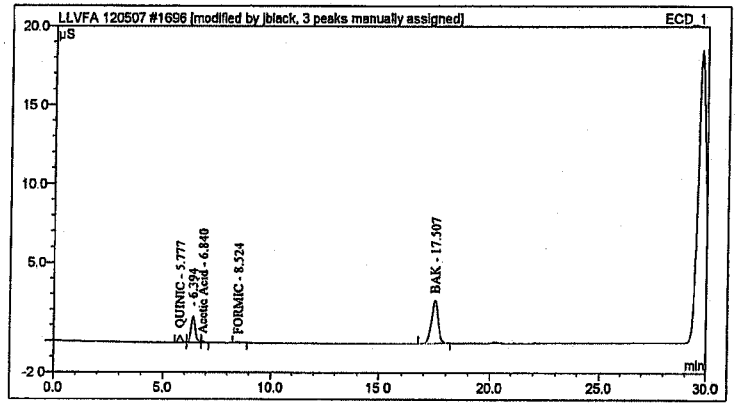


MICROSEEPS

Sample Analysis Report

Sample Name:	P0803392-05A	**Sequence No:**	1696
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:	4/11/2008 6:43 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	5.777	0.091	0.422	BM ^	n.a.
3	Acetic Acid	6.840	0.015	0.076	MB	0.0434
4	FORMIC	8.524	0.020	0.067	BMB^	n.a.
5	BAK	17.507	0.959	2.739	BMB	n.a.



BOE-C6-0188747

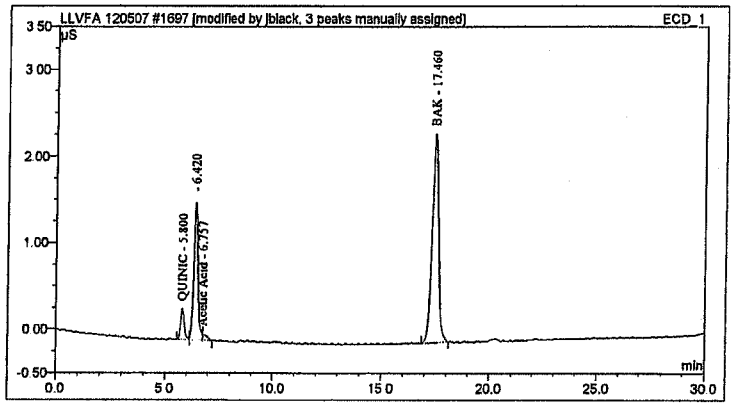
P0803392

MICROSEEPS

Sample Analysis Report

Sample Name:	P0803392-06A	**Sequence No:**	1697
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:	4/11/2008 7:24 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	5.800	0.074	0.356	BM ^	n.a.
3	Acetic Acid	6.757	0.016	0.066	MB*^	0.0468
4	BAK	17.460	0.846	2.411	BMB	n.a.



6 60 Build 1428

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current date: 4/11/2008
current time: 10:20 AM

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North Wind

Boeing Site IRC2059 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 IRC2059 samples and volume filtered for DNA extraction.

Well Location	Matrix–Date Sampled	Condition Received/ Observations	Volume Filtered (L)
IRC2059-02	Groundwater–03/26/2008	4°C, bottles intact	1.0
IRC2059-03	Groundwater–03/26/2008	4°C, bottles intact	1.0
IRC2059-04	Groundwater–03/26/2008	4°C, bottles intact	1.0
IRC2059-05	Groundwater–03/26/2008	4°C, bottles intact	0.85
IRC2059-06	Groundwater–03/26/2008	4°C, bottles intact	1.0
IRC2059-07	Groundwater–03/26/2008	4°C, bottles intact	1.0

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-C6-0188748

North Wind

Methods:

DNA Extraction: For groundwater shipped to the laboratory, between 0.85 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.

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 IRC2059 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 IRC2059 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)*
IRC2059-02	8730	+/NA	2.09E+07 ± 2.07E+06	2.06E+07 ± 1.80E+06	ND	ND
IRC2059-03	5044	+/NA	2.06E+07 ± 1.92E+06	2.83E+06 ± 7.10E+05	ND	ND
IRC2059-04	567	+/NA	2.88E+06 ± 9.81E+04	2.64E+06 ± 4.91E+05	ND	ND
IRC2059-05	551	+/NA	4.52E+05 ± 8.46E+04	5.62E+02 ± 6.92E+02*	ND	ND
IRC2059-06	898	+/NA	2.95E+03 ± 3.15E+02*	4.16E+02 ± 4.47E+02*	ND	ND
IRC2059-07	85	+/NA	3.47E+04 ± 6.52E+03	1.76E+04 ± 1.94E+03	ND	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 was detected above the reporting limit (50 gene copies/µL of DNA extraction) in all samples except for IRC2059-06 which had a concentration below the reporting limit. Reductase gene *tceA* was found above the reporting limit in samples IRC2059-02, IRC2059-03, IRC2059-04, IRC2059-07 and was also observed in IRC2059-06 and IRC2059-05, however, it was below the reporting limit in each. Reductase genes *vcrA* and *bvcA* were not detected above the method detection limit (2 gene copies/µL of DNA extraction) in any sample.

BOE-C6-0188749

SUBCONTRACT ORDER

TestAmerica Irvine

IRC2059

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: IRC2059-02	**Water**		**Sampled: 03/26/08 07:10**	
Diss. Gasses-OUT	mg/l	04/09/08	04/09/08 07:10	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: IRC2059-03	**Water**		**Sampled: 03/26/08 08:00**	
Diss. Gasses-OUT	mg/l	04/09/08	04/09/08 08:00	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: IRC2059-04	**Water**		**Sampled: 03/26/08 08:36**	
Diss. Gasses-OUT	mg/l	04/09/08	04/09/08 08:36	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: IRC2059-05	**Water**		**Sampled: 03/26/08 09:07**	
Diss. Gasses-OUT	mg/l	04/09/08	04/09/08 09:07	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: IRC2059-06	**Water**		**Sampled: 03/26/08 09:47**	
Diss. Gasses-OUT	mg/l	04/09/08	04/09/08 09:47	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

BOE-C6-0188750

SUBCONTRACT ORDER

TestAmerica Irvine

IRC2059

Analysis	Units	Due	Expires	Comments
Sample ID: IRC2059-07	**Water**		Sampled: 03/26/08 10:26	
Diss. Gasses-OUT	mg/l	04/09/08	04/09/08 10:26	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

IRC2059

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: IRC2059-02	**Water**		Sampled: 03/26/08 07:10	
VFA-Microseeps OUT	mg/l	04/09/08	04/02/08 07:10	Microseeps; IC; J&Bflags;TestAmerica excel EDD
Containers Supplied:				
40 mL Amber Voa Vial (K)	40 mL Amber Voa Vial (L)			
Sample ID: IRC2059-03	**Water**		Sampled: 03/26/08 08:00	
VFA-Microseeps OUT	mg/l	04/09/08	04/02/08 08:00	Microseeps; IC; J&Bflags;TestAmerica excel EDD
Containers Supplied:				
40 mL Amber Voa Vial (K)	40 mL Amber Voa Vial (L)			
Sample ID: IRC2059-04	**Water**		Sampled: 03/26/08 08:36	
VFA-Microseeps OUT	mg/l	04/09/08	04/02/08 08:36	Microseeps; IC; J&Bflags;TestAmerica excel EDD
Containers Supplied:				
40 mL Amber Voa Vial (K)	40 mL Amber Voa Vial (L)			
Sample ID: IRC2059-05	**Water**		Sampled: 03/26/08 09:07	
VFA-Microseeps OUT	mg/l	04/09/08	04/02/08 09:07	Microseeps; IC; J&Bflags;TestAmerica excel EDD
Containers Supplied:				
40 mL Amber Voa Vial (K)	40 mL Amber Voa Vial (L)			
Sample ID: IRC2059-06	**Water**		Sampled: 03/26/08 09:47	
VFA-Microseeps OUT	mg/l	04/09/08	04/02/08 09:47	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-C6-0188751

SUBCONTRACT ORDER

TestAmerica Irvine

IRC2059

Analysis	Units	Due	Expires	Comments
Sample ID: IRC2059-07	**Water**		Sampled: 03/26/08 10:26	
VFA-Microseeps OUT	mg/l	04/09/08	04/02/08 10:26	Microseeps; IC; J&Bflags;TestAmerica excel EDD
Containers Supplied:				
40 mL Amber Voa Vial (R)	40 mL Amber Voa Vial (L)			

SUBCONTRACT ORDER

TestAmerica Irvine

IRC2059

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: IRC2059-02	**Water**		Sampled: 03/26/08 07:10	
DHC Assay - OUT	cells/ml	04/09/08	04/02/08 07:10	Dehalo by qPCR, sub to Idaho St ; tceA, bvcA, vcrA
Containers Supplied:				
1 Liter Poly (N)	1 Liter Poly (O)			
Sample ID: IRC2059-03	**Water**		Sampled: 03/26/08 08:00	
DHC Assay - OUT	cells/ml	04/09/08	04/02/08 08:00	Dehalo by qPCR, sub to Idaho St ; tceA, bvcA, vcrA
Containers Supplied:				
1 Liter Poly (N)	1 Liter Poly (O)			
Sample ID: IRC2059-04	**Water**		Sampled: 03/26/08 08:36	
DHC Assay - OUT	cells/ml	04/09/08	04/02/08 08:36	Dehalo by qPCR, sub to Idaho St ; tceA, bvcA, vcrA
Containers Supplied:				
1 Liter Poly (N)	1 Liter Poly (O)			
Sample ID: IRC2059-05	**Water**		Sampled: 03/26/08 09:07	
DHC Assay - OUT	cells/ml	04/09/08	04/02/08 09:07	Dehalo by qPCR, sub to Idaho St ; tceA, bvcA, vcrA
Containers Supplied:				
1 Liter Poly (N)	1 Liter Poly (O)			
Sample ID: IRC2059-06	**Water**		Sampled: 03/26/08 09:47	
DHC Assay - OUT	cells/ml	04/09/08	04/02/08 09:47	Dehalo by qPCR, sub to Idaho St ; tceA, bvcA, vcrA
Containers Supplied:				
1 Liter Poly (N)	1 Liter Poly (O)			
Sample ID: IRC2059-07	**Water**		Sampled: 03/26/08 10:26	
DHC Assay - OUT	cells/ml	04/09/08	04/02/08 10:26	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-C6-0188752

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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: 04/22/08
Received: 04/22/08
Revised: 05/21/08 17:24

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 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.

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 per client instructions the following corrections were made on the COC:

Sample AW0075UB_WG20080422_02 was logged in only for 8260B analysis
"22" was added to the COC# on the right hand corner

Please note the Chloride and Sulfate results for the MS2 exceeded the linear range in batch # 8D22053; therefore are not available for reporting (reported in the LCS, MS1/SD1).

This report has been revised to correct the 8260B reporting for samples -01 and -07.

LABORATORY ID	CLIENT ID	MATRIX
IRD1936-01	AW0075UB_WG20080422_01	Water
IRD1936-02	AW0076UB_WG20080422_01	Water

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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: IRD1936

Sampled: 04/22/08
Received: 04/22/08

LABORATORY ID	CLIENT ID	MATRIX
IRD1936-03	AW0077UB_WG20080422_01	Water
IRD1936-04	EWB002_WG20080422_01	Water
IRD1936-05	AW0073C_WG20080422_01	Water
IRD1936-06	TB_AVO20080422_01	Water
IRD1936-07	AW0075UB_WG20080422_02	Water

Reviewed By:

TestAmerica Irvine

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Project Manager

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BOE-C6-0188753

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: IRD1936

Sampled: 04/22/08
Received: 04/22/08

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: IRD1936-01 (AW0075UB_WG20080422_01 - Water)									
Reporting Units: ug/l									
Acetone	EPA 8260B	8D25005	2200	5000	**8900**	500	04/25/08	04/25/08	
2-Butanone (MEK)	EPA 8260B	8D25005	2400	2500	**34000**	500	04/25/08	04/25/08	
4-Methyl-2-pentanone (MIBK)	EPA 8260B	8D25005	1800	2500	**20000**	500	04/25/08	04/25/08	
Toluene	EPA 8260B	8D25005	180	500	**9800**	500	04/25/08	04/25/08	
Surrogate: Dibromofluoromethane (80-120%)					*89 %*				
Surrogate: Toluene-d8 (80-120%)					*108 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)					*99 %*				
Sample ID: IRD1936-01RE1 (AW0075UB_WG20080422_01 - Water)									
Reporting Units: ug/l									
tert-Amyl Methyl Ether (TAME)	EPA 8260B	8D27001	33	200	ND	100	04/27/08	04/27/08	
Benzene	EPA 8260B	8D27001	28	50	**50**	100	04/27/08	04/27/08	
Bromobenzene	EPA 8260B	8D27001	27	100	ND	100	04/27/08	04/27/08	
Bromochloromethane	EPA 8260B	8D27001	40	100	ND	100	04/27/08	04/27/08	
Bromodichloromethane	EPA 8260B	8D27001	30	100	ND	100	04/27/08	04/27/08	
Bromoform	EPA 8260B	8D27001	40	100	ND	100	04/27/08	04/27/08	
Bromomethane	EPA 8260B	8D27001	42	100	ND	100	04/27/08	04/27/08	
tert-Butanol (TBA)	EPA 8260B	8D27001	650	2500	ND	100	04/27/08	04/27/08	
tert-Butylbenzene	EPA 8260B	8D27001	22	100	ND	100	04/27/08	04/27/08	
n-Butylbenzene	EPA 8260B	8D27001	37	100	ND	100	04/27/08	04/27/08	
sec-Butylbenzene	EPA 8260B	8D27001	25	100	ND	100	04/27/08	04/27/08	
Carbon Disulfide	EPA 8260B	8D27001	48	100	ND	100	04/27/08	04/27/08	
Carbon tetrachloride	EPA 8260B	8D27001	28	50	ND	100	04/27/08	04/27/08	
Chlorobenzene	EPA 8260B	8D27001	36	100	ND	100	04/27/08	04/27/08	
Chloroethane	EPA 8260B	8D27001	40	200	ND	100	04/27/08	04/27/08	
Chloroform	EPA 8260B	8D27001	33	100	ND	100	04/27/08	04/27/08	
Chloromethane	EPA 8260B	8D27001	40	200	ND	100	04/27/08	04/27/08	
2-Chlorotoluene	EPA 8260B	8D27001	28	100	ND	100	04/27/08	04/27/08	
4-Chlorotoluene	EPA 8260B	8D27001	29	100	ND	100	04/27/08	04/27/08	
1,2-Dibromo-3-chloropropane	EPA 8260B	8D27001	97	200	ND	100	04/27/08	04/27/08	
Dibromochloromethane	EPA 8260B	8D27001	40	100	ND	100	04/27/08	04/27/08	
1,2-Dibromoethane (EDB)	EPA 8260B	8D27001	40	100	ND	100	04/27/08	04/27/08	
1,3-Dichlorobenzene	EPA 8260B	8D27001	35	100	ND	100	04/27/08	04/27/08	
1,4-Dichlorobenzene	EPA 8260B	8D27001	37	100	ND	100	04/27/08	04/27/08	
1,2-Dichlorobenzene	EPA 8260B	8D27001	32	100	ND	100	04/27/08	04/27/08	
Dichlorodifluoromethane	EPA 8260B	8D27001	26	100	ND	100	04/27/08	04/27/08	
1,1-Dichloroethane	EPA 8260B	8D27001	40	100	**540**	100	04/27/08	04/27/08	
1,2-Dichloroethane	EPA 8260B	8D27001	28	50	**130**	100	04/27/08	04/27/08	
cis-1,2-Dichloroethene	EPA 8260B	8D27001	32	100	**2700**	100	04/27/08	04/27/08	
1,1-Dichloroethene	EPA 8260B	8D27001	42	100	**3200**	100	04/27/08	04/27/08	
trans-1,2-Dichloroethene	EPA 8260B	8D27001	30	100	**210**	100	04/27/08	04/27/08	

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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: IRD1936

Sampled: 04/22/08
Received: 04/22/08

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: IRD1936-01RE1 (AW0075UB_WG20080422_01 - Water) - cont.									
Reporting Units: ug/l									
2,2-Dichloropropane	EPA 8260B	8D27001	34	100	ND	100	04/27/08	04/27/08	
1,2-Dichloropropane	EPA 8260B	8D27001	35	100	ND	100	04/27/08	04/27/08	
cis-1,3-Dichloropropene	EPA 8260B	8D27001	22	50	ND	100	04/27/08	04/27/08	
1,1-Dichloropropene	EPA 8260B	8D27001	28	100	ND	100	04/27/08	04/27/08	
trans-1,3-Dichloropropene	EPA 8260B	8D27001	32	50	ND	100	04/27/08	04/27/08	
Di-isopropyl Ether (DIPE)	EPA 8260B	8D27001	25	200	ND	100	04/27/08	04/27/08	
Ethylbenzene	EPA 8260B	8D27001	25	100	ND	100	04/27/08	04/27/08	
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	8D27001	28	200	ND	100	04/27/08	04/27/08	
Hexachlorobutadiene	EPA 8260B	8D27001	38	100	ND	100	04/27/08	04/27/08	
2-Hexanone	EPA 8260B	8D27001	260	600	ND	100	04/27/08	04/27/08	
Iodomethane	EPA 8260B	8D27001	100	200	ND	100	04/27/08	04/27/08	
Isopropylbenzene	EPA 8260B	8D27001	25	100	ND	100	04/27/08	04/27/08	
p-Isopropyltoluene	EPA 8260B	8D27001	28	100	ND	100	04/27/08	04/27/08	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	8D27001	32	100	ND	100	04/27/08	04/27/08	
Methylene chloride	EPA 8260B	8D27001	95	100	ND	100	04/27/08	04/27/08	
n-Propylbenzene	EPA 8260B	8D27001	27	100	ND	100	04/27/08	04/27/08	
Styrene	EPA 8260B	8D27001	20	100	ND	100	04/27/08	04/27/08	
1,1,1,2-Tetrachloroethane	EPA 8260B	8D27001	27	100	ND	100	04/27/08	04/27/08	
1,1,2,2-Tetrachloroethane	EPA 8260B	8D27001	30	100	ND	100	04/27/08	04/27/08	
Tetrachloroethene	EPA 8260B	8D27001	32	100	ND	100	04/27/08	04/27/08	
1,2,3-Trichlorobenzene	EPA 8260B	8D27001	30	100	ND	100	04/27/08	04/27/08	
1,2,4-Trichlorobenzene	EPA 8260B	8D27001	48	100	ND	100	04/27/08	04/27/08	
1,1,1-Trichloroethane	EPA 8260B	8D27001	30	100	**100**	100	04/27/08	04/27/08	
1,1,2-Trichloroethane	EPA 8260B	8D27001	30	100	**79**	100	04/27/08	04/27/08	Ja
Trichloroethene	EPA 8260B	8D27001	26	100	ND	100	04/27/08	04/27/08	
Trichlorofluoromethane	EPA 8260B	8D27001	34	200	ND	100	04/27/08	04/27/08	
1,2,3-Trichloropropane	EPA 8260B	8D27001	40	100	ND	100	04/27/08	04/27/08	
1,3,5-Trimethylbenzene	EPA 8260B	8D27001	26	100	ND	100	04/27/08	04/27/08	
1,2,4-Trimethylbenzene	EPA 8260B	8D27001	23	100	ND	100	04/27/08	04/27/08	
Vinyl acetate	EPA 8260B	8D27001	100	600	ND	100	04/27/08	04/27/08	
Vinyl chloride	EPA 8260B	8D27001	40	50	**5600**	100	04/27/08	04/27/08	
o-Xylene	EPA 8260B	8D27001	30	50	ND	100	04/27/08	04/27/08	
Xylenes, Total	EPA 8260B	8D27001	90	100	ND	100	04/27/08	04/27/08	
m,p-Xylenes	EPA 8260B	8D27001	60	100	ND	100	04/27/08	04/27/08	
Surrogate: Dibromofluoromethane (80-120%)					*97 %*				
Surrogate: Toluene-d8 (80-120%)					*103 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)					*82 %*				

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Project Manager

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BOE-C6-0188754

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: IRD1936

Sampled: 04/22/08
Received: 04/22/08

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: IRD1936-01RE2 (AW0075UB_WG20080422_01 - Water) - cont.									
Reporting Units: ug/l									
Tetrahydrofuran (THF)	EPA 8260B	8D30013	350	1000	ND	100	04/30/08	04/30/08	
Surrogate: Dibromofluoromethane (80-120%)					*98 %*				
Surrogate: Toluene-d8 (80-120%)					*98 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)					*95 %*				

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Project Manager

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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: IRD1936

Sampled: 04/22/08
Received: 04/22/08

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: IRD1936-02 (AW0076UB_WG20080422_01 - Water)									
Reporting Units: ug/l									
2-Butanone (MEK)	EPA 8260B	8D27001	4700	5000	**83000**	1000	04/27/08	04/27/08	
Surrogate: Dibromofluoromethane (80-120%)					*96 %*				
Surrogate: Toluene-d8 (80-120%)					*99 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)					*83 %*				
Sample ID: IRD1936-02RE1 (AW0076UB_WG20080422_01 - Water)									
Reporting Units: ug/l									
Acetone	EPA 8260B	8D27001	9000	20000	**160000**	2000	04/27/08	04/27/08	
tert-Amyl Methyl Ether (TAME)	EPA 8260B	8D27001	660	4000	ND	2000	04/27/08	04/27/08	
Benzene	EPA 8260B	8D27001	560	1000	ND	2000	04/27/08	04/27/08	
Bromobenzene	EPA 8260B	8D27001	540	2000	ND	2000	04/27/08	04/27/08	
Bromochloromethane	EPA 8260B	8D27001	800	2000	ND	2000	04/27/08	04/27/08	
Bromodichloromethane	EPA 8260B	8D27001	600	2000	ND	2000	04/27/08	04/27/08	
Bromoform	EPA 8260B	8D27001	800	2000	ND	2000	04/27/08	04/27/08	
Bromomethane	EPA 8260B	8D27001	840	2000	ND	2000	04/27/08	04/27/08	
tert-Butanol (TBA)	EPA 8260B	8D27001	13000	50000	ND	2000	04/27/08	04/27/08	
tert-Butylbenzene	EPA 8260B	8D27001	440	2000	ND	2000	04/27/08	04/27/08	
n-Butylbenzene	EPA 8260B	8D27001	740	2000	ND	2000	04/27/08	04/27/08	
sec-Butylbenzene	EPA 8260B	8D27001	500	2000	ND	2000	04/27/08	04/27/08	
Carbon Disulfide	EPA 8260B	8D27001	960	2000	ND	2000	04/27/08	04/27/08	
Carbon tetrachloride	EPA 8260B	8D27001	560	1000	ND	2000	04/27/08	04/27/08	
Chlorobenzene	EPA 8260B	8D27001	720	2000	ND	2000	04/27/08	04/27/08	
Chloroethane	EPA 8260B	8D27001	800	4000	ND	2000	04/27/08	04/27/08	
Chloroform	EPA 8260B	8D27001	660	2000	ND	2000	04/27/08	04/27/08	
Chloromethane	EPA 8260B	8D27001	800	4000	ND	2000	04/27/08	04/27/08	
2-Chlorotoluene	EPA 8260B	8D27001	560	2000	ND	2000	04/27/08	04/27/08	
4-Chlorotoluene	EPA 8260B	8D27001	580	2000	ND	2000	04/27/08	04/27/08	
1,2-Dibromo-3-chloropropane	EPA 8260B	8D27001	1900	4000	ND	2000	04/27/08	04/27/08	
Dibromochloromethane	EPA 8260B	8D27001	800	2000	ND	2000	04/27/08	04/27/08	
1,2-Dibromoethane (EDB)	EPA 8260B	8D27001	800	2000	ND	2000	04/27/08	04/27/08	
1,3-Dichlorobenzene	EPA 8260B	8D27001	700	2000	ND	2000	04/27/08	04/27/08	
1,4-Dichlorobenzene	EPA 8260B	8D27001	740	2000	ND	2000	04/27/08	04/27/08	
1,2-Dichlorobenzene	EPA 8260B	8D27001	640	2000	ND	2000	04/27/08	04/27/08	
Dichlorodifluoromethane	EPA 8260B	8D27001	520	2000	ND	2000	04/27/08	04/27/08	
1,1-Dichloroethane	EPA 8260B	8D27001	800	2000	**5100**	2000	04/27/08	04/27/08	
1,2-Dichloroethane	EPA 8260B	8D27001	560	1000	**1200**	2000	04/27/08	04/27/08	
cis-1,2-Dichloroethene	EPA 8260B	8D27001	640	2000	**24000**	2000	04/27/08	04/27/08	
1,1-Dichloroethene	EPA 8260B	8D27001	840	2000	**24000**	2000	04/27/08	04/27/08	
trans-1,2-Dichloroethene	EPA 8260B	8D27001	600	2000	**1900**	2000	04/27/08	04/27/08	Ja
2,2-Dichloropropane	EPA 8260B	8D27001	680	2000	ND	2000	04/27/08	04/27/08	
1,2-Dichloropropane	EPA 8260B	8D27001	700	2000	ND	2000	04/27/08	04/27/08	

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BOE-C6-0188755

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: IRD1936

Sampled: 04/22/08
Received: 04/22/08

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: IRD1936-02RE1 (AW0076UB_WG20080422_01 - Water) - cont.									
Reporting Units: ug/l									
cis-1,3-Dichloropropene	EPA 8260B	8D27001	440	1000	ND	2000	04/27/08	04/27/08	
1,1-Dichloropropene	EPA 8260B	8D27001	560	2000	ND	2000	04/27/08	04/27/08	
trans-1,3-Dichloropropene	EPA 8260B	8D27001	640	1000	ND	2000	04/27/08	04/27/08	
Di-isopropyl Ether (DIPE)	EPA 8260B	8D27001	500	4000	ND	2000	04/27/08	04/27/08	
Ethylbenzene	EPA 8260B	8D27001	500	2000	ND	2000	04/27/08	04/27/08	
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	8D27001	560	4000	ND	2000	04/27/08	04/27/08	
Hexachlorobutadiene	EPA 8260B	8D27001	760	2000	ND	2000	04/27/08	04/27/08	
2-Hexanone	EPA 8260B	8D27001	5200	12000	ND	2000	04/27/08	04/27/08	
Iodomethane	EPA 8260B	8D27001	2000	4000	ND	2000	04/27/08	04/27/08	
Isopropylbenzene	EPA 8260B	8D27001	500	2000	ND	2000	04/27/08	04/27/08	
p-Isopropyltoluene	EPA 8260B	8D27001	560	2000	ND	2000	04/27/08	04/27/08	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	8D27001	640	2000	ND	2000	04/27/08	04/27/08	
Methylene chloride	EPA 8260B	8D27001	1900	2000	ND	2000	04/27/08	04/27/08	
4-Methyl-2-pentanone (MIBK)	EPA 8260B	8D27001	7000	10000	**94000**	2000	04/27/08	04/27/08	
n-Propylbenzene	EPA 8260B	8D27001	540	2000	ND	2000	04/27/08	04/27/08	
Styrene	EPA 8260B	8D27001	400	2000	ND	2000	04/27/08	04/27/08	
1,1,1,2-Tetrachloroethane	EPA 8260B	8D27001	540	2000	ND	2000	04/27/08	04/27/08	
1,1,2,2-Tetrachloroethane	EPA 8260B	8D27001	600	2000	ND	2000	04/27/08	04/27/08	
Tetrachloroethene	EPA 8260B	8D27001	640	2000	ND	2000	04/27/08	04/27/08	
Tetrahydrofuran (THF)	EPA 8260B	8D27001	7000	20000	ND	2000	04/27/08	04/27/08	C
Toluene	EPA 8260B	8D27001	720	2000	**59000**	2000	04/27/08	04/27/08	
1,2,3-Trichlorobenzene	EPA 8260B	8D27001	600	2000	ND	2000	04/27/08	04/27/08	
1,2,4-Trichlorobenzene	EPA 8260B	8D27001	960	2000	ND	2000	04/27/08	04/27/08	
1,1,1-Trichloroethane	EPA 8260B	8D27001	600	2000	ND	2000	04/27/08	04/27/08	
1,1,2-Trichloroethane	EPA 8260B	8D27001	600	2000	**620**	2000	04/27/08	04/27/08	Ja
Trichloroethene	EPA 8260B	8D27001	520	2000	ND	2000	04/27/08	04/27/08	
Trichlorofluoromethane	EPA 8260B	8D27001	680	4000	ND	2000	04/27/08	04/27/08	
1,2,3-Trichloropropane	EPA 8260B	8D27001	800	2000	ND	2000	04/27/08	04/27/08	
1,3,5-Trimethylbenzene	EPA 8260B	8D27001	520	2000	ND	2000	04/27/08	04/27/08	
1,2,4-Trimethylbenzene	EPA 8260B	8D27001	460	2000	ND	2000	04/27/08	04/27/08	
Vinyl acetate	EPA 8260B	8D27001	2000	12000	ND	2000	04/27/08	04/27/08	
Vinyl chloride	EPA 8260B	8D27001	800	1000	**60000**	2000	04/27/08	04/27/08	
o-Xylene	EPA 8260B	8D27001	600	1000	ND	2000	04/27/08	04/27/08	
Xylenes, Total	EPA 8260B	8D27001	1800	2000	ND	2000	04/27/08	04/27/08	
m,p-Xylenes	EPA 8260B	8D27001	1200	2000	ND	2000	04/27/08	04/27/08	
Surrogate: Dibromofluoromethane (80-120%)					*96 %*				
Surrogate: Toluene-d8 (80-120%)					*100 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)					*83 %*				

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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: IRD1936

Sampled: 04/22/08
Received: 04/22/08

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: IRD1936-03 (AW0077UB_WG20080422_01 - Water)									
Reporting Units: ug/l									
Vinyl chloride	EPA 8260B	8D27001	800	1000	**87000**	2000	04/27/08	04/27/08	
Surrogate: Dibromofluoromethane (80-120%)					*100 %*				
Surrogate: Toluene-d8 (80-120%)					*98 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)					*82 %*				
Sample ID: IRD1936-03RE1 (AW0077UB_WG20080422_01 - Water)									
Reporting Units: ug/l									
Acetone	EPA 8260B	8D27001	180	400	**2100**	40	04/27/08	04/27/08	
tert-Amyl Methyl Ether (TAME)	EPA 8260B	8D27001	13	80	ND	40	04/27/08	04/27/08	
Benzene	EPA 8260B	8D27001	11	20	**27**	40	04/27/08	04/27/08	
Bromobenzene	EPA 8260B	8D27001	11	40	ND	40	04/27/08	04/27/08	
Bromochloromethane	EPA 8260B	8D27001	16	40	ND	40	04/27/08	04/27/08	
Bromodichloromethane	EPA 8260B	8D27001	12	40	ND	40	04/27/08	04/27/08	
Bromoform	EPA 8260B	8D27001	16	40	ND	40	04/27/08	04/27/08	
Bromomethane	EPA 8260B	8D27001	17	40	ND	40	04/27/08	04/27/08	
tert-Butanol (TBA)	EPA 8260B	8D27001	260	1000	ND	40	04/27/08	04/27/08	
2-Butanone (MEK)	EPA 8260B	8D27001	190	200	**4000**	40	04/27/08	04/27/08	
tert-Butylbenzene	EPA 8260B	8D27001	8.8	40	ND	40	04/27/08	04/27/08	
n-Butylbenzene	EPA 8260B	8D27001	15	40	ND	40	04/27/08	04/27/08	
sec-Butylbenzene	EPA 8260B	8D27001	10	40	ND	40	04/27/08	04/27/08	
Carbon Disulfide	EPA 8260B	8D27001	19	40	ND	40	04/27/08	04/27/08	
Carbon tetrachloride	EPA 8260B	8D27001	11	20	ND	40	04/27/08	04/27/08	
Chlorobenzene	EPA 8260B	8D27001	14	40	ND	40	04/27/08	04/27/08	
Chloroethane	EPA 8260B	8D27001	16	80	ND	40	04/27/08	04/27/08	
Chloroform	EPA 8260B	8D27001	13	40	ND	40	04/27/08	04/27/08	
Chloromethane	EPA 8260B	8D27001	16	80	ND	40	04/27/08	04/27/08	
2-Chlorotoluene	EPA 8260B	8D27001	11	40	ND	40	04/27/08	04/27/08	
4-Chlorotoluene	EPA 8260B	8D27001	12	40	ND	40	04/27/08	04/27/08	
1,2-Dibromo-3-chloropropane	EPA 8260B	8D27001	39	80	ND	40	04/27/08	04/27/08	
Dibromochloromethane	EPA 8260B	8D27001	16	40	ND	40	04/27/08	04/27/08	
1,2-Dibromoethane (EDB)	EPA 8260B	8D27001	16	40	ND	40	04/27/08	04/27/08	
1,3-Dichlorobenzene	EPA 8260B	8D27001	14	40	ND	40	04/27/08	04/27/08	
1,4-Dichlorobenzene	EPA 8260B	8D27001	15	40	ND	40	04/27/08	04/27/08	
1,2-Dichlorobenzene	EPA 8260B	8D27001	13	40	ND	40	04/27/08	04/27/08	
Dichlorodifluoromethane	EPA 8260B	8D27001	10	40	ND	40	04/27/08	04/27/08	
1,1-Dichloroethane	EPA 8260B	8D27001	16	40	**330**	40	04/27/08	04/27/08	
1,2-Dichloroethane	EPA 8260B	8D27001	11	20	**79**	40	04/27/08	04/27/08	
cis-1,2-Dichloroethene	EPA 8260B	8D27001	13	40	**53**	40	04/27/08	04/27/08	
1,1-Dichloroethene	EPA 8260B	8D27001	17	40	**23**	40	04/27/08	04/27/08	Ja
trans-1,2-Dichloroethene	EPA 8260B	8D27001	12	40	**110**	40	04/27/08	04/27/08	
2,2-Dichloropropane	EPA 8260B	8D27001	14	40	ND	40	04/27/08	04/27/08	

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BOE-C6-0188756

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: IRD1936

Sampled: 04/22/08
Received: 04/22/08

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: IRD1936-03RE1 (AW0077UB_WG20080422_01 - Water) - cont.									
Reporting Units: ug/l									
1,2-Dichloropropane	EPA 8260B	8D27001	14	40	ND	40	04/27/08	04/27/08	
cis-1,3-Dichloropropene	EPA 8260B	8D27001	8.8	20	ND	40	04/27/08	04/27/08	
1,1-Dichloropropene	EPA 8260B	8D27001	11	40	ND	40	04/27/08	04/27/08	
trans-1,3-Dichloropropene	EPA 8260B	8D27001	13	20	ND	40	04/27/08	04/27/08	
Di-isopropyl Ether (DIPE)	EPA 8260B	8D27001	10	80	ND	40	04/27/08	04/27/08	
Ethylbenzene	EPA 8260B	8D27001	10	40	ND	40	04/27/08	04/27/08	
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	8D27001	11	80	ND	40	04/27/08	04/27/08	
Hexachlorobutadiene	EPA 8260B	8D27001	15	40	ND	40	04/27/08	04/27/08	
2-Hexanone	EPA 8260B	8D27001	100	240	ND	40	04/27/08	04/27/08	
Iodomethane	EPA 8260B	8D27001	40	80	ND	40	04/27/08	04/27/08	
Isopropylbenzene	EPA 8260B	8D27001	10	40	ND	40	04/27/08	04/27/08	
p-Isopropyltoluene	EPA 8260B	8D27001	11	40	ND	40	04/27/08	04/27/08	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	8D27001	13	40	ND	40	04/27/08	04/27/08	
Methylene chloride	EPA 8260B	8D27001	38	40	ND	40	04/27/08	04/27/08	
4-Methyl-2-pentanone (MIBK)	EPA 8260B	8D27001	140	200	**1200**	40	04/27/08	04/27/08	
n-Propylbenzene	EPA 8260B	8D27001	11	40	ND	40	04/27/08	04/27/08	
Styrene	EPA 8260B	8D27001	8.0	40	ND	40	04/27/08	04/27/08	
1,1,1,2-Tetrachloroethane	EPA 8260B	8D27001	11	40	ND	40	04/27/08	04/27/08	
1,1,2,2-Tetrachloroethane	EPA 8260B	8D27001	12	40	ND	40	04/27/08	04/27/08	
Tetrachloroethene	EPA 8260B	8D27001	13	40	ND	40	04/27/08	04/27/08	
Toluene	EPA 8260B	8D27001	14	40	**1100**	40	04/27/08	04/27/08	
1,2,3-Trichlorobenzene	EPA 8260B	8D27001	12	40	ND	40	04/27/08	04/27/08	
1,2,4-Trichlorobenzene	EPA 8260B	8D27001	19	40	ND	40	04/27/08	04/27/08	
1,1,1-Trichloroethane	EPA 8260B	8D27001	12	40	ND	40	04/27/08	04/27/08	
1,1,2-Trichloroethane	EPA 8260B	8D27001	12	40	**20**	40	04/27/08	04/27/08	Ja
Trichloroethene	EPA 8260B	8D27001	10	40	ND	40	04/27/08	04/27/08	
Trichlorofluoromethane	EPA 8260B	8D27001	14	80	ND	40	04/27/08	04/27/08	
1,2,3-Trichloropropane	EPA 8260B	8D27001	16	40	ND	40	04/27/08	04/27/08	
1,3,5-Trimethylbenzene	EPA 8260B	8D27001	10	40	ND	40	04/27/08	04/27/08	
1,2,4-Trimethylbenzene	EPA 8260B	8D27001	9.2	40	ND	40	04/27/08	04/27/08	
Vinyl acetate	EPA 8260B	8D27001	40	240	ND	40	04/27/08	04/27/08	
o-Xylene	EPA 8260B	8D27001	12	20	ND	40	04/27/08	04/27/08	
Xylenes, Total	EPA 8260B	8D27001	36	40	ND	40	04/27/08	04/27/08	
m,p-Xylenes	EPA 8260B	8D27001	24	40	ND	40	04/27/08	04/27/08	
Surrogate: Dibromofluoromethane (80-120%)					*98 %*				
Surrogate: Toluene-d8 (80-120%)					*100 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)					*82 %*				

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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 (02/26/08)
1155.006
Report Number: IRD1936

Sampled: 04/22/08
Received: 04/22/08

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: IRD1936-03RE2 (AW0077UB_WG20080422_01 - Water) - cont.									
Reporting Units: ug/l									
Tetrahydrofuran (THF)	EPA 8260B	8D30013	140	400	**360**	40	04/30/08	04/30/08	Ja
Surrogate: Dibromofluoromethane (80-120%)					*99 %*				
Surrogate: Toluene-d8 (80-120%)					*98 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)					*93 %*				

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BOE-C6-0188757

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: IRD1936

Sampled: 04/22/08
Received: 04/22/08

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: IRD1936-04 (EWB002_WG20080422_01 - Water)									
Reporting Units: ug/l									
Vinyl chloride	EPA 8260B	8D27001	40	50	**5700**	100	04/27/08	04/27/08	
Surrogate: Dibromofluoromethane (80-120%)					*99 %*				
Surrogate: Toluene-d8 (80-120%)					*98 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)					*84 %*				
Sample ID: IRD1936-04RE1 (EWB002_WG20080422_01 - Water)									
Reporting Units: ug/l									
Acetone	EPA 8260B	8D27001	90	200	**730**	20	04/27/08	04/27/08	
tert-Amyl Methyl Ether (TAME)	EPA 8260B	8D27001	6.6	40	ND	20	04/27/08	04/27/08	
Benzene	EPA 8260B	8D27001	5.6	10	**17**	20	04/27/08	04/27/08	
Bromobenzene	EPA 8260B	8D27001	5.4	20	ND	20	04/27/08	04/27/08	
Bromochloromethane	EPA 8260B	8D27001	8.0	20	ND	20	04/27/08	04/27/08	
Bromodichloromethane	EPA 8260B	8D27001	6.0	20	ND	20	04/27/08	04/27/08	
Bromoform	EPA 8260B	8D27001	8.0	20	ND	20	04/27/08	04/27/08	
Bromomethane	EPA 8260B	8D27001	8.4	20	ND	20	04/27/08	04/27/08	
tert-Butanol (TBA)	EPA 8260B	8D27001	130	500	ND	20	04/27/08	04/27/08	
2-Butanone (MEK)	EPA 8260B	8D27001	94	100	**1300**	20	04/27/08	04/27/08	
tert-Butylbenzene	EPA 8260B	8D27001	4.4	20	ND	20	04/27/08	04/27/08	
n-Butylbenzene	EPA 8260B	8D27001	7.4	20	ND	20	04/27/08	04/27/08	
sec-Butylbenzene	EPA 8260B	8D27001	5.0	20	ND	20	04/27/08	04/27/08	
Carbon Disulfide	EPA 8260B	8D27001	9.6	20	ND	20	04/27/08	04/27/08	
Carbon tetrachloride	EPA 8260B	8D27001	5.6	10	ND	20	04/27/08	04/27/08	
Chlorobenzene	EPA 8260B	8D27001	7.2	20	ND	20	04/27/08	04/27/08	
Chloroethane	EPA 8260B	8D27001	8.0	40	**18**	20	04/27/08	04/27/08	Ja
Chloroform	EPA 8260B	8D27001	6.6	20	ND	20	04/27/08	04/27/08	
Chloromethane	EPA 8260B	8D27001	8.0	40	ND	20	04/27/08	04/27/08	
2-Chlorotoluene	EPA 8260B	8D27001	5.6	20	ND	20	04/27/08	04/27/08	
4-Chlorotoluene	EPA 8260B	8D27001	5.8	20	ND	20	04/27/08	04/27/08	
1,2-Dibromo-3-chloropropane	EPA 8260B	8D27001	19	40	ND	20	04/27/08	04/27/08	
Dibromochloromethane	EPA 8260B	8D27001	8.0	20	ND	20	04/27/08	04/27/08	
1,2-Dibromoethane (EDB)	EPA 8260B	8D27001	8.0	20	ND	20	04/27/08	04/27/08	
1,3-Dichlorobenzene	EPA 8260B	8D27001	7.0	20	ND	20	04/27/08	04/27/08	
1,4-Dichlorobenzene	EPA 8260B	8D27001	7.4	20	ND	20	04/27/08	04/27/08	
1,2-Dichlorobenzene	EPA 8260B	8D27001	6.4	20	ND	20	04/27/08	04/27/08	
Dichlorodifluoromethane	EPA 8260B	8D27001	5.2	20	ND	20	04/27/08	04/27/08	
1,1-Dichloroethane	EPA 8260B	8D27001	8.0	20	**140**	20	04/27/08	04/27/08	
1,2-Dichloroethane	EPA 8260B	8D27001	5.6	10	**47**	20	04/27/08	04/27/08	
cis-1,2-Dichloroethene	EPA 8260B	8D27001	6.4	20	**100**	20	04/27/08	04/27/08	
1,1-Dichloroethene	EPA 8260B	8D27001	8.4	20	**290**	20	04/27/08	04/27/08	
trans-1,2-Dichloroethene	EPA 8260B	8D27001	6.0	20	**91**	20	04/27/08	04/27/08	
2,2-Dichloropropane	EPA 8260B	8D27001	6.8	20	ND	20	04/27/08	04/27/08	

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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 (02/26/08)
1155.006
Report Number: IRD1936

Sampled: 04/22/08
Received: 04/22/08

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: IRD1936-04RE1 (EWB002_WG20080422_01 - Water) - cont.									
Reporting Units: ug/l									
1,2-Dichloropropane	EPA 8260B	8D27001	7.0	20	ND	20	04/27/08	04/27/08	
cis-1,3-Dichloropropene	EPA 8260B	8D27001	4.4	10	ND	20	04/27/08	04/27/08	
1,1-Dichloropropene	EPA 8260B	8D27001	5.6	20	ND	20	04/27/08	04/27/08	
trans-1,3-Dichloropropene	EPA 8260B	8D27001	6.4	10	ND	20	04/27/08	04/27/08	
Di-isopropyl Ether (DIPE)	EPA 8260B	8D27001	5.0	40	ND	20	04/27/08	04/27/08	
Ethylbenzene	EPA 8260B	8D27001	5.0	20	ND	20	04/27/08	04/27/08	
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	8D27001	5.6	40	ND	20	04/27/08	04/27/08	
Hexachlorobutadiene	EPA 8260B	8D27001	7.6	20	ND	20	04/27/08	04/27/08	
2-Hexanone	EPA 8260B	8D27001	52	120	ND	20	04/27/08	04/27/08	
Iodomethane	EPA 8260B	8D27001	20	40	ND	20	04/27/08	04/27/08	
Isopropylbenzene	EPA 8260B	8D27001	5.0	20	ND	20	04/27/08	04/27/08	
p-Isopropyltoluene	EPA 8260B	8D27001	5.6	20	ND	20	04/27/08	04/27/08	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	8D27001	6.4	20	ND	20	04/27/08	04/27/08	
Methylene chloride	EPA 8260B	8D27001	19	20	ND	20	04/27/08	04/27/08	
4-Methyl-2-pentanone (MIBK)	EPA 8260B	8D27001	70	100	**1500**	20	04/27/08	04/27/08	
n-Propylbenzene	EPA 8260B	8D27001	5.4	20	ND	20	04/27/08	04/27/08	
Styrene	EPA 8260B	8D27001	4.0	20	ND	20	04/27/08	04/27/08	
1,1,1,2-Tetrachloroethane	EPA 8260B	8D27001	5.4	20	ND	20	04/27/08	04/27/08	
1,1,2,2-Tetrachloroethane	EPA 8260B	8D27001	6.0	20	ND	20	04/27/08	04/27/08	
Tetrachloroethene	EPA 8260B	8D27001	6.4	20	ND	20	04/27/08	04/27/08	
Toluene	EPA 8260B	8D27001	7.2	20	**810**	20	04/27/08	04/27/08	
1,2,3-Trichlorobenzene	EPA 8260B	8D27001	6.0	20	ND	20	04/27/08	04/27/08	
1,2,4-Trichlorobenzene	EPA 8260B	8D27001	9.6	20	ND	20	04/27/08	04/27/08	
1,1,1-Trichloroethane	EPA 8260B	8D27001	6.0	20	ND	20	04/27/08	04/27/08	
1,1,2-Trichloroethane	EPA 8260B	8D27001	6.0	20	**9.0**	20	04/27/08	04/27/08	Ja
Trichloroethene	EPA 8260B	8D27001	5.2	20	**5.8**	20	04/27/08	04/27/08	Ja
Trichlorofluoromethane	EPA 8260B	8D27001	6.8	40	ND	20	04/27/08	04/27/08	
1,2,3-Trichloropropane	EPA 8260B	8D27001	8.0	20	ND	20	04/27/08	04/27/08	
1,3,5-Trimethylbenzene	EPA 8260B	8D27001	5.2	20	ND	20	04/27/08	04/27/08	
1,2,4-Trimethylbenzene	EPA 8260B	8D27001	4.6	20	ND	20	04/27/08	04/27/08	
Vinyl acetate	EPA 8260B	8D27001	20	120	ND	20	04/27/08	04/27/08	
o-Xylene	EPA 8260B	8D27001	6.0	10	ND	20	04/27/08	04/27/08	
Xylenes, Total	EPA 8260B	8D27001	18	20	ND	20	04/27/08	04/27/08	
m,p-Xylenes	EPA 8260B	8D27001	12	20	ND	20	04/27/08	04/27/08	
Surrogate: Dibromofluoromethane (80-120%)					*105 %*				
Surrogate: Toluene-d8 (80-120%)					*102 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)					*82 %*				

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BOE-C6-0188758

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: IRD1936

Sampled: 04/22/08
Received: 04/22/08

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: IRD1936-04RE2 (EWB002_WG20080422_01 - Water) - cont.									
Reporting Units: ug/l									
Tetrahydrofuran (THF)	EPA 8260B	8D30013	70	200	ND	20	04/30/08	04/30/08	
Surrogate: Dibromofluoromethane (80-120%)					*102 %*				
Surrogate: Toluene-d8 (80-120%)					*97 %*				
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: IRD1936

Sampled: 04/22/08
Received: 04/22/08

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: IRD1936-05 (AW0073C_WG20080422_01 - Water)									
Reporting Units: ug/l									
Toluene	EPA 8260B	8D27001	18	50	**2900**	50	04/27/08	04/27/08	
Vinyl chloride	EPA 8260B	8D27001	20	25	**1200**	50	04/27/08	04/27/08	
Surrogate: Dibromofluoromethane (80-120%)					*96 %*				
Surrogate: Toluene-d8 (80-120%)					*97 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)					*81 %*				
Sample ID: IRD1936-05RE1 (AW0073C_WG20080422_01 - Water)									
Reporting Units: ug/l									
Acetone	EPA 8260B	8D27001	45	100	**60**	10	04/27/08	04/27/08	Ja
tert-Amyl Methyl Ether (TAME)	EPA 8260B	8D27001	3.3	20	ND	10	04/27/08	04/27/08	
Benzene	EPA 8260B	8D27001	2.8	5.0	**11**	10	04/27/08	04/27/08	
Bromobenzene	EPA 8260B	8D27001	2.7	10	ND	10	04/27/08	04/27/08	
Bromochloromethane	EPA 8260B	8D27001	4.0	10	ND	10	04/27/08	04/27/08	
Bromodichloromethane	EPA 8260B	8D27001	3.0	10	ND	10	04/27/08	04/27/08	
Bromoform	EPA 8260B	8D27001	4.0	10	ND	10	04/27/08	04/27/08	
Bromomethane	EPA 8260B	8D27001	4.2	10	ND	10	04/27/08	04/27/08	
tert-Butanol (TBA)	EPA 8260B	8D27001	65	250	ND	10	04/27/08	04/27/08	
2-Butanone (MEK)	EPA 8260B	8D27001	47	50	ND	10	04/27/08	04/27/08	
tert-Butylbenzene	EPA 8260B	8D27001	2.2	10	ND	10	04/27/08	04/27/08	
n-Butylbenzene	EPA 8260B	8D27001	3.7	10	ND	10	04/27/08	04/27/08	
sec-Butylbenzene	EPA 8260B	8D27001	2.5	10	ND	10	04/27/08	04/27/08	
Carbon Disulfide	EPA 8260B	8D27001	4.8	10	ND	10	04/27/08	04/27/08	
Carbon tetrachloride	EPA 8260B	8D27001	2.8	5.0	ND	10	04/27/08	04/27/08	
Chlorobenzene	EPA 8260B	8D27001	3.6	10	ND	10	04/27/08	04/27/08	
Chloroethane	EPA 8260B	8D27001	4.0	20	ND	10	04/27/08	04/27/08	
Chloroform	EPA 8260B	8D27001	3.3	10	ND	10	04/27/08	04/27/08	
Chloromethane	EPA 8260B	8D27001	4.0	20	ND	10	04/27/08	04/27/08	
2-Chlorotoluene	EPA 8260B	8D27001	2.8	10	ND	10	04/27/08	04/27/08	
4-Chlorotoluene	EPA 8260B	8D27001	2.9	10	ND	10	04/27/08	04/27/08	
1,2-Dibromo-3-chloropropane	EPA 8260B	8D27001	9.7	20	ND	10	04/27/08	04/27/08	
Dibromochloromethane	EPA 8260B	8D27001	4.0	10	ND	10	04/27/08	04/27/08	
1,2-Dibromoethane (EDB)	EPA 8260B	8D27001	4.0	10	ND	10	04/27/08	04/27/08	
1,3-Dichlorobenzene	EPA 8260B	8D27001	3.5	10	ND	10	04/27/08	04/27/08	
1,4-Dichlorobenzene	EPA 8260B	8D27001	3.7	10	ND	10	04/27/08	04/27/08	
1,2-Dichlorobenzene	EPA 8260B	8D27001	3.2	10	ND	10	04/27/08	04/27/08	
Dichlorodifluoromethane	EPA 8260B	8D27001	2.6	10	ND	10	04/27/08	04/27/08	
1,1-Dichloroethane	EPA 8260B	8D27001	4.0	10	**71**	10	04/27/08	04/27/08	
1,2-Dichloroethane	EPA 8260B	8D27001	2.8	5.0	**19**	10	04/27/08	04/27/08	
cis-1,2-Dichloroethene	EPA 8260B	8D27001	3.2	10	**160**	10	04/27/08	04/27/08	
1,1-Dichloroethene	EPA 8260B	8D27001	4.2	10	**520**	10	04/27/08	04/27/08	
trans-1,2-Dichloroethene	EPA 8260B	8D27001	3.0	10	**28**	10	04/27/08	04/27/08	

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BOE-C6-0188759

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: IRD1936

Sampled: 04/22/08
Received: 04/22/08

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: IRD1936-05RE1 (AW0073C_WG20080422_01 - Water) - cont.									
Reporting Units: ug/l									
2,2-Dichloropropane	EPA 8260B	8D27001	3.4	10	ND	10	04/27/08	04/27/08	
1,2-Dichloropropane	EPA 8260B	8D27001	3.5	10	ND	10	04/27/08	04/27/08	
cis-1,3-Dichloropropene	EPA 8260B	8D27001	2.2	5.0	ND	10	04/27/08	04/27/08	
1,1-Dichloropropene	EPA 8260B	8D27001	2.8	10	ND	10	04/27/08	04/27/08	
trans-1,3-Dichloropropene	EPA 8260B	8D27001	3.2	5.0	ND	10	04/27/08	04/27/08	
Di-isopropyl Ether (DIPE)	EPA 8260B	8D27001	2.5	20	**2.7**	10	04/27/08	04/27/08	Ja
Ethylbenzene	EPA 8260B	8D27001	2.5	10	ND	10	04/27/08	04/27/08	
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	8D27001	2.8	20	ND	10	04/27/08	04/27/08	
Hexachlorobutadiene	EPA 8260B	8D27001	3.8	10	ND	10	04/27/08	04/27/08	
2-Hexanone	EPA 8260B	8D27001	26	60	ND	10	04/27/08	04/27/08	
Iodomethane	EPA 8260B	8D27001	10	20	ND	10	04/27/08	04/27/08	
Isopropylbenzene	EPA 8260B	8D27001	2.5	10	ND	10	04/27/08	04/27/08	
p-Isopropyltoluene	EPA 8260B	8D27001	2.8	10	ND	10	04/27/08	04/27/08	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	8D27001	3.2	10	ND	10	04/27/08	04/27/08	
Methylene chloride	EPA 8260B	8D27001	9.5	10	ND	10	04/27/08	04/27/08	
4-Methyl-2-pentanone (MIBK)	EPA 8260B	8D27001	35	50	ND	10	04/27/08	04/27/08	
n-Propylbenzene	EPA 8260B	8D27001	2.7	10	ND	10	04/27/08	04/27/08	
Styrene	EPA 8260B	8D27001	2.0	10	ND	10	04/27/08	04/27/08	
1,1,1,2-Tetrachloroethane	EPA 8260B	8D27001	2.7	10	ND	10	04/27/08	04/27/08	
1,1,2,2-Tetrachloroethane	EPA 8260B	8D27001	3.0	10	ND	10	04/27/08	04/27/08	
Tetrachloroethene	EPA 8260B	8D27001	3.2	10	ND	10	04/27/08	04/27/08	
1,2,3-Trichlorobenzene	EPA 8260B	8D27001	3.0	10	ND	10	04/27/08	04/27/08	
1,2,4-Trichlorobenzene	EPA 8260B	8D27001	4.8	10	ND	10	04/27/08	04/27/08	
1,1,1-Trichloroethane	EPA 8260B	8D27001	3.0	10	**40**	10	04/27/08	04/27/08	
1,1,2-Trichloroethane	EPA 8260B	8D27001	3.0	10	**8.0**	10	04/27/08	04/27/08	Ja
Trichloroethene	EPA 8260B	8D27001	2.6	10	**14**	10	04/27/08	04/27/08	
Trichlorofluoromethane	EPA 8260B	8D27001	3.4	20	ND	10	04/27/08	04/27/08	
1,2,3-Trichloropropane	EPA 8260B	8D27001	4.0	10	ND	10	04/27/08	04/27/08	
1,3,5-Trimethylbenzene	EPA 8260B	8D27001	2.6	10	ND	10	04/27/08	04/27/08	
1,2,4-Trimethylbenzene	EPA 8260B	8D27001	2.3	10	ND	10	04/27/08	04/27/08	
Vinyl acetate	EPA 8260B	8D27001	10	60	ND	10	04/27/08	04/27/08	
o-Xylene	EPA 8260B	8D27001	3.0	5.0	ND	10	04/27/08	04/27/08	
Xylenes, Total	EPA 8260B	8D27001	9.0	10	ND	10	04/27/08	04/27/08	
m,p-Xylenes	EPA 8260B	8D27001	6.0	10	**6.7**	10	04/27/08	04/27/08	Ja
Surrogate: Dibromofluoromethane (80-120%)					*97 %*				
Surrogate: Toluene-d8 (80-120%)					*98 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)					*81 %*				

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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: IRD1936

Sampled: 04/22/08
Received: 04/22/08

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: IRD1936-05RE2 (AW0073C_WG20080422_01 - Water) - cont.									
Reporting Units: ug/l									
Tetrahydrofuran (THF)	EPA 8260B	8D30013	35	100	**720**	10	04/30/08	04/30/08	
Surrogate: Dibromofluoromethane (80-120%)					*99 %*				
Surrogate: Toluene-d8 (80-120%)					*97 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)					*93 %*				

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BOE-C6-0188760

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: IRD1936

Sampled: 04/22/08
Received: 04/22/08

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: IRD1936-06 (TB_AVO20080422_01 - Water)									
Reporting Units: ug/l									
Acetone	EPA 8260B	8D25005	4.5	10	ND	1	04/25/08	04/25/08	
tert-Amyl Methyl Ether (TAME)	EPA 8260B	8D25005	0.33	2.0	ND	1	04/25/08	04/25/08	
Benzene	EPA 8260B	8D25005	0.28	0.50	ND	1	04/25/08	04/25/08	
Bromobenzene	EPA 8260B	8D25005	0.27	1.0	ND	1	04/25/08	04/25/08	
Bromochloromethane	EPA 8260B	8D25005	0.40	1.0	ND	1	04/25/08	04/25/08	
Bromodichloromethane	EPA 8260B	8D25005	0.30	1.0	ND	1	04/25/08	04/25/08	
Bromoform	EPA 8260B	8D25005	0.40	1.0	ND	1	04/25/08	04/25/08	
Bromomethane	EPA 8260B	8D25005	0.42	1.0	ND	1	04/25/08	04/25/08	
tert-Butanol (TBA)	EPA 8260B	8D25005	6.5	25	ND	1	04/25/08	04/25/08	
2-Butanone (MEK)	EPA 8260B	8D25005	4.7	5.0	ND	1	04/25/08	04/25/08	
tert-Butylbenzene	EPA 8260B	8D25005	0.22	1.0	ND	1	04/25/08	04/25/08	
n-Butylbenzene	EPA 8260B	8D25005	0.37	1.0	ND	1	04/25/08	04/25/08	
sec-Butylbenzene	EPA 8260B	8D25005	0.25	1.0	ND	1	04/25/08	04/25/08	
Carbon Disulfide	EPA 8260B	8D25005	0.48	1.0	ND	1	04/25/08	04/25/08	
Carbon tetrachloride	EPA 8260B	8D25005	0.28	0.50	ND	1	04/25/08	04/25/08	
Chlorobenzene	EPA 8260B	8D25005	0.36	1.0	ND	1	04/25/08	04/25/08	
Chloroethane	EPA 8260B	8D25005	0.40	2.0	ND	1	04/25/08	04/25/08	
Chloroform	EPA 8260B	8D25005	0.33	1.0	ND	1	04/25/08	04/25/08	
Chloromethane	EPA 8260B	8D25005	0.40	2.0	ND	1	04/25/08	04/25/08	
2-Chlorotoluene	EPA 8260B	8D25005	0.28	1.0	ND	1	04/25/08	04/25/08	
4-Chlorotoluene	EPA 8260B	8D25005	0.29	1.0	ND	1	04/25/08	04/25/08	
1,2-Dibromo-3-chloropropane	EPA 8260B	8D25005	0.97	2.0	ND	1	04/25/08	04/25/08	
Dibromochloromethane	EPA 8260B	8D25005	0.40	1.0	ND	1	04/25/08	04/25/08	
1,2-Dibromoethane (EDB)	EPA 8260B	8D25005	0.40	1.0	ND	1	04/25/08	04/25/08	
1,3-Dichlorobenzene	EPA 8260B	8D25005	0.35	1.0	ND	1	04/25/08	04/25/08	
1,4-Dichlorobenzene	EPA 8260B	8D25005	0.37	1.0	ND	1	04/25/08	04/25/08	
1,2-Dichlorobenzene	EPA 8260B	8D25005	0.32	1.0	ND	1	04/25/08	04/25/08	
Dichlorodifluoromethane	EPA 8260B	8D25005	0.26	1.0	ND	1	04/25/08	04/25/08	
1,1-Dichloroethane	EPA 8260B	8D25005	0.40	1.0	ND	1	04/25/08	04/25/08	
1,2-Dichloroethane	EPA 8260B	8D25005	0.28	0.50	ND	1	04/25/08	04/25/08	
cis-1,2-Dichloroethene	EPA 8260B	8D25005	0.32	1.0	ND	1	04/25/08	04/25/08	
1,1-Dichloroethene	EPA 8260B	8D25005	0.42	1.0	ND	1	04/25/08	04/25/08	
trans-1,2-Dichloroethene	EPA 8260B	8D25005	0.30	1.0	ND	1	04/25/08	04/25/08	
2,2-Dichloropropane	EPA 8260B	8D25005	0.34	1.0	ND	1	04/25/08	04/25/08	
1,2-Dichloropropane	EPA 8260B	8D25005	0.35	1.0	ND	1	04/25/08	04/25/08	
cis-1,3-Dichloropropene	EPA 8260B	8D25005	0.22	0.50	ND	1	04/25/08	04/25/08	
1,1-Dichloropropene	EPA 8260B	8D25005	0.28	1.0	ND	1	04/25/08	04/25/08	
trans-1,3-Dichloropropene	EPA 8260B	8D25005	0.32	0.50	ND	1	04/25/08	04/25/08	
Di-isopropyl Ether (DIPE)	EPA 8260B	8D25005	0.25	2.0	ND	1	04/25/08	04/25/08	
Ethylbenzene	EPA 8260B	8D25005	0.25	1.0	ND	1	04/25/08	04/25/08	
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	8D25005	0.28	2.0	ND	1	04/25/08	04/25/08	

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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: IRD1936

Sampled: 04/22/08
Received: 04/22/08

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: IRD1936-06 (TB_AVO20080422_01 - Water) - cont.									
Reporting Units: ug/l									
Hexachlorobutadiene	EPA 8260B	8D25005	0.38	1.0	ND	1	04/25/08	04/25/08	C, L
2-Hexanone	EPA 8260B	8D25005	2.6	6.0	ND	1	04/25/08	04/25/08	
Iodomethane	EPA 8260B	8D25005	1.0	2.0	ND	1	04/25/08	04/25/08	
Isopropylbenzene	EPA 8260B	8D25005	0.25	1.0	ND	1	04/25/08	04/25/08	
p-Isopropyltoluene	EPA 8260B	8D25005	0.28	1.0	ND	1	04/25/08	04/25/08	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	8D25005	0.32	1.0	ND	1	04/25/08	04/25/08	
Methylene chloride	EPA 8260B	8D25005	0.95	1.0	ND	1	04/25/08	04/25/08	
4-Methyl-2-pentanone (MIBK)	EPA 8260B	8D25005	3.5	5.0	ND	1	04/25/08	04/25/08	
n-Propylbenzene	EPA 8260B	8D25005	0.27	1.0	ND	1	04/25/08	04/25/08	
Styrene	EPA 8260B	8D25005	0.20	1.0	ND	1	04/25/08	04/25/08	
1,1,1,2-Tetrachloroethane	EPA 8260B	8D25005	0.27	1.0	ND	1	04/25/08	04/25/08	
1,1,2,2-Tetrachloroethane	EPA 8260B	8D25005	0.30	1.0	ND	1	04/25/08	04/25/08	
Tetrachloroethene	EPA 8260B	8D25005	0.32	1.0	ND	1	04/25/08	04/25/08	
Tetrahydrofuran (THF)	EPA 8260B	8D25005	3.5	10	ND	1	04/25/08	04/25/08	
Toluene	EPA 8260B	8D25005	0.36	1.0	ND	1	04/25/08	04/25/08	
1,2,3-Trichlorobenzene	EPA 8260B	8D25005	0.30	1.0	ND	1	04/25/08	04/25/08	
1,2,4-Trichlorobenzene	EPA 8260B	8D25005	0.48	1.0	ND	1	04/25/08	04/25/08	
1,1,1-Trichloroethane	EPA 8260B	8D25005	0.30	1.0	ND	1	04/25/08	04/25/08	
1,1,2-Trichloroethane	EPA 8260B	8D25005	0.30	1.0	ND	1	04/25/08	04/25/08	
Trichloroethene	EPA 8260B	8D25005	0.26	1.0	ND	1	04/25/08	04/25/08	
Trichlorofluoromethane	EPA 8260B	8D25005	0.34	2.0	ND	1	04/25/08	04/25/08	
1,2,3-Trichloropropane	EPA 8260B	8D25005	0.40	1.0	ND	1	04/25/08	04/25/08	
1,3,5-Trimethylbenzene	EPA 8260B	8D25005	0.26	1.0	ND	1	04/25/08	04/25/08	
1,2,4-Trimethylbenzene	EPA 8260B	8D25005	0.23	1.0	ND	1	04/25/08	04/25/08	
Vinyl acetate	EPA 8260B	8D25005	1.0	6.0	ND	1	04/25/08	04/25/08	
Vinyl chloride	EPA 8260B	8D25005	0.40	0.50	ND	1	04/25/08	04/25/08	
o-Xylene	EPA 8260B	8D25005	0.30	0.50	ND	1	04/25/08	04/25/08	
Xylenes, Total	EPA 8260B	8D25005	0.90	1.0	ND	1	04/25/08	04/25/08	
m,p-Xylenes	EPA 8260B	8D25005	0.60	1.0	ND	1	04/25/08	04/25/08	
Surrogate: Dibromofluoromethane (80-120%)					*89 %*				
Surrogate: Toluene-d8 (80-120%)					*105 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)					*101 %*				

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BOE-C6-0188761

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: IRD1936

Sampled: 04/22/08
Received: 04/22/08

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: IRD1936-07 (AW0075UB_WG20080422_02 - Water)									
Reporting Units: ug/l									
2-Butanone (MEK)	EPA 8260B	8D27001	2400	2500	**38000**	500	04/27/08	04/27/08	
Surrogate: Dibromofluoromethane (80-120%)					*103 %*				
Surrogate: Toluene-d8 (80-120%)					*103 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)					*81 %*				
Sample ID: IRD1936-07RE1 (AW0075UB_WG20080422_02 - Water)									
Reporting Units: ug/l									
Acetone	EPA 8260B	8D27001	450	1000	**14000**	100	04/27/08	04/27/08	
tert-Amyl Methyl Ether (TAME)	EPA 8260B	8D27001	33	200	ND	100	04/27/08	04/27/08	
Benzene	EPA 8260B	8D27001	28	50	**44**	100	04/27/08	04/27/08	Ja
Bromobenzene	EPA 8260B	8D27001	27	100	ND	100	04/27/08	04/27/08	
Bromochloromethane	EPA 8260B	8D27001	40	100	ND	100	04/27/08	04/27/08	
Bromodichloromethane	EPA 8260B	8D27001	30	100	ND	100	04/27/08	04/27/08	
Bromoform	EPA 8260B	8D27001	40	100	ND	100	04/27/08	04/27/08	
Bromomethane	EPA 8260B	8D27001	42	100	ND	100	04/27/08	04/27/08	
tert-Butanol (TBA)	EPA 8260B	8D27001	650	2500	ND	100	04/27/08	04/27/08	
tert-Butylbenzene	EPA 8260B	8D27001	22	100	ND	100	04/27/08	04/27/08	
n-Butylbenzene	EPA 8260B	8D27001	37	100	ND	100	04/27/08	04/27/08	
sec-Butylbenzene	EPA 8260B	8D27001	25	100	ND	100	04/27/08	04/27/08	
Carbon Disulfide	EPA 8260B	8D27001	48	100	ND	100	04/27/08	04/27/08	
Carbon tetrachloride	EPA 8260B	8D27001	28	50	ND	100	04/27/08	04/27/08	
Chlorobenzene	EPA 8260B	8D27001	36	100	ND	100	04/27/08	04/27/08	
Chloroethane	EPA 8260B	8D27001	40	200	ND	100	04/27/08	04/27/08	
Chloroform	EPA 8260B	8D27001	33	100	ND	100	04/27/08	04/27/08	
Chloromethane	EPA 8260B	8D27001	40	200	ND	100	04/27/08	04/27/08	
2-Chlorotoluene	EPA 8260B	8D27001	28	100	ND	100	04/27/08	04/27/08	
4-Chlorotoluene	EPA 8260B	8D27001	29	100	ND	100	04/27/08	04/27/08	
1,2-Dibromo-3-chloropropane	EPA 8260B	8D27001	97	200	ND	100	04/27/08	04/27/08	
Dibromochloromethane	EPA 8260B	8D27001	40	100	ND	100	04/27/08	04/27/08	
1,2-Dibromoethane (EDB)	EPA 8260B	8D27001	40	100	ND	100	04/27/08	04/27/08	
1,3-Dichlorobenzene	EPA 8260B	8D27001	35	100	ND	100	04/27/08	04/27/08	
1,4-Dichlorobenzene	EPA 8260B	8D27001	37	100	ND	100	04/27/08	04/27/08	
1,2-Dichlorobenzene	EPA 8260B	8D27001	32	100	ND	100	04/27/08	04/27/08	
Dichlorodifluoromethane	EPA 8260B	8D27001	26	100	ND	100	04/27/08	04/27/08	
1,1-Dichloroethane	EPA 8260B	8D27001	40	100	**540**	100	04/27/08	04/27/08	
1,2-Dichloroethane	EPA 8260B	8D27001	28	50	**130**	100	04/27/08	04/27/08	
cis-1,2-Dichloroethene	EPA 8260B	8D27001	32	100	**2600**	100	04/27/08	04/27/08	
1,1-Dichloroethene	EPA 8260B	8D27001	42	100	**3200**	100	04/27/08	04/27/08	
trans-1,2-Dichloroethene	EPA 8260B	8D27001	30	100	**220**	100	04/27/08	04/27/08	
2,2-Dichloropropane	EPA 8260B	8D27001	34	100	ND	100	04/27/08	04/27/08	
1,2-Dichloropropane	EPA 8260B	8D27001	35	100	ND	100	04/27/08	04/27/08	

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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: IRD1936

Sampled: 04/22/08
Received: 04/22/08

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: IRD1936-07RE1 (AW0075UB_WG20080422_02 - Water) - cont.									
Reporting Units: ug/l									
cis-1,3-Dichloropropene	EPA 8260B	8D27001	22	50	ND	100	04/27/08	04/27/08	
1,1-Dichloropropene	EPA 8260B	8D27001	28	100	ND	100	04/27/08	04/27/08	
trans-1,3-Dichloropropene	EPA 8260B	8D27001	32	50	ND	100	04/27/08	04/27/08	
Di-isopropyl Ether (DIPE)	EPA 8260B	8D27001	25	200	ND	100	04/27/08	04/27/08	
Ethylbenzene	EPA 8260B	8D27001	25	100	ND	100	04/27/08	04/27/08	
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	8D27001	28	200	ND	100	04/27/08	04/27/08	
Hexachlorobutadiene	EPA 8260B	8D27001	38	100	ND	100	04/27/08	04/27/08	
2-Hexanone	EPA 8260B	8D27001	260	600	ND	100	04/27/08	04/27/08	
Iodomethane	EPA 8260B	8D27001	100	200	ND	100	04/27/08	04/27/08	
Isopropylbenzene	EPA 8260B	8D27001	25	100	ND	100	04/27/08	04/27/08	
p-Isopropyltoluene	EPA 8260B	8D27001	28	100	ND	100	04/27/08	04/27/08	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	8D27001	32	100	ND	100	04/27/08	04/27/08	
Methylene chloride	EPA 8260B	8D27001	95	100	ND	100	04/27/08	04/27/08	
4-Methyl-2-pentanone (MIBK)	EPA 8260B	8D27001	350	500	**24000**	100	04/27/08	04/27/08	
n-Propylbenzene	EPA 8260B	8D27001	27	100	ND	100	04/27/08	04/27/08	
Styrene	EPA 8260B	8D27001	20	100	ND	100	04/27/08	04/27/08	
1,1,1,2-Tetrachloroethane	EPA 8260B	8D27001	27	100	ND	100	04/27/08	04/27/08	
1,1,2,2-Tetrachloroethane	EPA 8260B	8D27001	30	100	ND	100	04/27/08	04/27/08	
Tetrachloroethene	EPA 8260B	8D27001	32	100	ND	100	04/27/08	04/27/08	
Tetrahydrofuran (THF)	EPA 8260B	8D27001	350	1000	ND	100	04/27/08	04/27/08	C
Toluene	EPA 8260B	8D27001	36	100	**11000**	100	04/27/08	04/27/08	
1,2,3-Trichlorobenzene	EPA 8260B	8D27001	30	100	ND	100	04/27/08	04/27/08	
1,2,4-Trichlorobenzene	EPA 8260B	8D27001	48	100	ND	100	04/27/08	04/27/08	
1,1,1-Trichloroethane	EPA 8260B	8D27001	30	100	**100**	100	04/27/08	04/27/08	
1,1,2-Trichloroethane	EPA 8260B	8D27001	30	100	**77**	100	04/27/08	04/27/08	Ja
Trichloroethene	EPA 8260B	8D27001	26	100	ND	100	04/27/08	04/27/08	
Trichlorofluoromethane	EPA 8260B	8D27001	34	200	ND	100	04/27/08	04/27/08	
1,2,3-Trichloropropane	EPA 8260B	8D27001	40	100	ND	100	04/27/08	04/27/08	
1,3,5-Trimethylbenzene	EPA 8260B	8D27001	26	100	ND	100	04/27/08	04/27/08	
1,2,4-Trimethylbenzene	EPA 8260B	8D27001	23	100	ND	100	04/27/08	04/27/08	
Vinyl acetate	EPA 8260B	8D27001	100	600	ND	100	04/27/08	04/27/08	
Vinyl chloride	EPA 8260B	8D27001	40	50	**6600**	100	04/27/08	04/27/08	
o-Xylene	EPA 8260B	8D27001	30	50	ND	100	04/27/08	04/27/08	
Xylenes, Total	EPA 8260B	8D27001	90	100	ND	100	04/27/08	04/27/08	
m,p-Xylenes	EPA 8260B	8D27001	60	100	ND	100	04/27/08	04/27/08	
Surrogate: Dibromofluoromethane (80-120%)					*101 %*				
Surrogate: Toluene-d8 (80-120%)					*106 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)					*80 %*				

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BOE-C6-0188762

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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: IRD1936

Sampled: 04/22/08
Received: 04/22/08

INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRD1936-01 (AW0075UB_WG20080422_01 - Water)									
Reporting Units: mg/l									
Alkalinity as CaCO3	EPA 310.1	8D23049	2.0	2.0	**730**	1	04/23/08	04/23/08	
Chloride	EPA 300.0	8D22053	12	25	**590**	50	04/22/08	04/22/08	
Nitrate-NO3	EPA 300.0	8D22053	0.25	0.50	ND	1	04/22/08	04/22/08	
Nitrite-NO2	EPA 300.0	8D22053	15	25	ND	50	04/22/08	04/22/08	RL1
Sulfate	EPA 300.0	8D22053	0.20	0.50	**1.1**	1	04/22/08	04/22/08	
Sample ID: IRD1936-02 (AW0076UB_WG20080422_01 - Water)									
Reporting Units: mg/l									
Alkalinity as CaCO3	EPA 310.1	8D23049	2.0	2.0	**800**	1	04/23/08	04/23/08	
Chloride	EPA 300.0	8D22053	12	25	**610**	50	04/22/08	04/22/08	
Nitrate-NO3	EPA 300.0	8D22053	0.25	0.50	ND	1	04/22/08	04/22/08	
Nitrite-NO2	EPA 300.0	8D22053	15	25	ND	50	04/22/08	04/22/08	RL1
Sulfate	EPA 300.0	8D22053	0.20	0.50	**0.91**	1	04/22/08	04/22/08	
Sample ID: IRD1936-03 (AW0077UB_WG20080422_01 - Water)									
Reporting Units: mg/l									
Alkalinity as CaCO3	EPA 310.1	8D23049	2.0	2.0	**700**	1	04/23/08	04/23/08	
Chloride	EPA 300.0	8D22053	25	50	**520**	100	04/22/08	04/23/08	
Nitrate-NO3	EPA 300.0	8D22053	0.25	0.50	ND	1	04/22/08	04/22/08	
Nitrite-NO2	EPA 300.0	8D22053	30	50	ND	100	04/22/08	04/23/08	RL1
Sulfate	EPA 300.0	8D22053	0.20	0.50	**0.96**	1	04/22/08	04/22/08	
Sample ID: IRD1936-04 (EWB002_WG20080422_01 - Water)									
Reporting Units: mg/l									
Alkalinity as CaCO3	EPA 310.1	8D23049	2.0	2.0	**860**	1	04/23/08	04/23/08	
Chloride	EPA 300.0	8D22053	12	25	**480**	50	04/22/08	04/22/08	
Nitrate-NO3	EPA 300.0	8D22053	0.25	0.50	ND	1	04/22/08	04/22/08	
Nitrite-NO2	EPA 300.0	8D22053	15	25	ND	50	04/22/08	04/22/08	RL1
Sulfate	EPA 300.0	8D22053	0.20	0.50	**1.5**	1	04/22/08	04/22/08	
Sample ID: IRD1936-05 (AW0073C_WG20080422_01 - Water)									
Reporting Units: mg/l									
Alkalinity as CaCO3	EPA 310.1	8D23049	2.0	2.0	**240**	1	04/23/08	04/23/08	
Chloride	EPA 300.0	8D22053	5.0	10	**130**	20	04/22/08	04/22/08	
Nitrate-NO3	EPA 300.0	8D22053	0.25	0.50	ND	1	04/22/08	04/22/08	
Nitrite-NO2	EPA 300.0	8D22053	0.30	0.50	ND	1	04/22/08	04/22/08	
Sulfate	EPA 300.0	8D22053	0.20	0.50	**12**	1	04/22/08	04/22/08	

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Irvine, CA 92618
Attention: Michael Rendina

Project ID: Boeing C-6 Torrance (02/26/08)
1155.006
Report Number: IRD1936

Sampled: 04/22/08
Received: 04/22/08

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: IRD1936-01 (AW0075UB_WG20080422_01 - Water)									
Reporting Units: mg/l									
Total Organic Carbon	EPA 9060A MOD.	8D29087	10	20	**440**	20	04/29/08	04/29/08	
Sample ID: IRD1936-02 (AW0076UB_WG20080422_01 - Water)									
Reporting Units: mg/l									
Total Organic Carbon	EPA 9060A MOD.	8D29087	10	20	**440**	20	04/29/08	04/29/08	
Sample ID: IRD1936-03 (AW0077UB_WG20080422_01 - Water)									
Reporting Units: mg/l									
Total Organic Carbon	EPA 9060A MOD.	8D29087	10	20	**280**	20	04/29/08	04/29/08	
Sample ID: IRD1936-04 (EWB002_WG20080422_01 - Water)									
Reporting Units: mg/l									
Total Organic Carbon	EPA 9060A MOD.	8D29087	10	20	**430**	20	04/29/08	04/29/08	
Sample ID: IRD1936-05 (AW0073C_WG20080422_01 - Water)									
Reporting Units: mg/l									
Total Organic Carbon	EPA 9060A MOD.	8D29087	0.50	1.0	**5.4**	1	04/29/08	04/29/08	

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BOE-C6-0188763

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Attention: Michael Rendina

Project ID: Boeing C-6 Torrance (02/26/08)
1155.006
Report Number: IRD1936

Sampled: 04/22/08
Received: 04/22/08

Volatile Fatty Acids by Ion Chromatography

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRD1936-01 (AW0075UB_WG20080422_01 - Water)									
Reporting Units: mg/L									
Acetic Acid	AM23G	M080512007	4.1	7	**430**	100	05/08/08	05/09/08	
Butyric Acid	AM23G	M080512006	0.59	0.7	**47**	10	05/08/08	05/09/08	
Hexanoic Acid	AM23G	M080512003	0.08	0.1	**0.69**	1	05/06/08	05/07/08	M
i-Hexanoic Acid	AM23G	M080512003	0.08	0.1	**0.44**	1	05/06/08	05/07/08	
i-Pentanoic Acid	AM23G	M080512006	0.7	0.7	**8.2**	10	05/08/08	05/09/08	
Lactic Acid and HIBA	AM23G	M080512007	6.7	10	ND	100	05/08/08	05/09/08	U
Pentanoic Acid	AM23G	M080512006	0.7	0.7	**4**	10	05/08/08	05/09/08	
Propionic Acid	AM23G	M080512007	5.2	7	**120**	100	05/08/08	05/09/08	
Pyruvic Acid	AM23G	M080512006	0.67	0.7	**7.8**	10	05/08/08	05/09/08	
Sample ID: IRD1936-02 (AW0076UB_WG20080422_01 - Water)									
Reporting Units: mg/L									
Acetic Acid	AM23G	M080512007	4.1	7	**550**	100	05/08/08	05/09/08	
Butyric Acid	AM23G	M080512006	0.59	0.7	**19**	10	05/08/08	05/09/08	
Hexanoic Acid	AM23G	M080512003	0.08	0.1	**0.9**	1	05/06/08	05/07/08	M
i-Hexanoic Acid	AM23G	M080512003	0.08	0.1	**0.49**	1	05/06/08	05/07/08	
i-Pentanoic Acid	AM23G	M080512006	0.7	0.7	**5.2**	10	05/08/08	05/09/08	
Lactic Acid and HIBA	AM23G	M080512007	6.7	10	ND	100	05/08/08	05/09/08	U
Pentanoic Acid	AM23G	M080512003	0.07	0.07	**3.7**	1	05/06/08	05/07/08	M
Propionic Acid	AM23G	M080512007	5.2	7	**140**	100	05/08/08	05/09/08	
Pyruvic Acid	AM23G	M080512006	0.67	0.7	**3.8**	10	05/08/08	05/09/08	
Sample ID: IRD1936-03 (AW0077UB_WG20080422_01 - Water)									
Reporting Units: mg/L									
Acetic Acid	AM23G	M080512007	4.1	7	**220**	100	05/08/08	05/09/08	
Butyric Acid	AM23G	M080512006	0.59	0.7	**19**	10	05/08/08	05/09/08	
Hexanoic Acid	AM23G	M080512003	0.08	0.1	**1.7**	1	05/06/08	05/07/08	M
i-Hexanoic Acid	AM23G	M080512003	0.08	0.1	ND	1	05/06/08	05/07/08	U
i-Pentanoic Acid	AM23G	M080512006	0.7	0.7	**1.4**	10	05/08/08	05/09/08	
Lactic Acid and HIBA	AM23G	M080512007	6.7	10	ND	100	05/08/08	05/09/08	U
Pentanoic Acid	AM23G	M080512003	0.07	0.07	**2.9**	1	05/06/08	05/07/08	M
Propionic Acid	AM23G	M080512007	5.2	7	**38**	100	05/08/08	05/09/08	
Pyruvic Acid	AM23G	M080512006	0.67	0.7	**1.6**	10	05/08/08	05/09/08	

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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: IRD1936

Sampled: 04/22/08
Received: 04/22/08

Volatile Fatty Acids by Ion Chromatography

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRD1936-04 (EWB002_WG20080422_01 - Water)									
Reporting Units: mg/L									
Acetic Acid	AM23G	M080512007	4.1	7	**380**	100	05/08/08	05/09/08	
Butyric Acid	AM23G	M080512006	0.59	0.7	**89**	10	05/08/08	05/09/08	
Hexanoic Acid	AM23G	M080512006	0.78	1	**13**	10	05/08/08	05/09/08	
i-Hexanoic Acid	AM23G	M080512003	0.08	0.1	**0.8**	1	05/06/08	05/07/08	
i-Pentanoic Acid	AM23G	M080512006	0.7	0.7	**11**	10	05/08/08	05/09/08	
Lactic Acid and HIBA	AM23G	M080512007	6.7	10	ND	100	05/08/08	05/09/08	U
Pentanoic Acid	AM23G	M080512006	0.7	0.7	**14**	10	05/08/08	05/09/08	
Propionic Acid	AM23G	M080512007	5.2	7	**140**	100	05/08/08	05/09/08	
Pyruvic Acid	AM23G	M080512006	0.67	0.7	**12**	10	05/08/08	05/09/08	
Sample ID: IRD1936-05 (AW0073C_WG20080422_01 - Water)									
Reporting Units: mg/L									
Acetic Acid	AM23G	M080512003	0.04	0.07	**5.4**	1	05/06/08	05/08/08	M
Butyric Acid	AM23G	M080512003	0.06	0.07	ND	1	05/06/08	05/08/08	U, M
Hexanoic Acid	AM23G	M080512003	0.08	0.1	ND	1	05/06/08	05/08/08	U, M
i-Hexanoic Acid	AM23G	M080512003	0.08	0.1	ND	1	05/06/08	05/08/08	U
i-Pentanoic Acid	AM23G	M080512003	0.07	0.07	ND	1	05/06/08	05/08/08	U, M
Lactic Acid and HIBA	AM23G	M080512003	0.07	0.1	ND	1	05/06/08	05/08/08	U, M
Pentanoic Acid	AM23G	M080512003	0.07	0.07	ND	1	05/06/08	05/08/08	U, M
Propionic Acid	AM23G	M080512003	0.05	0.07	ND	1	05/06/08	05/08/08	U, M
Pyruvic Acid	AM23G	M080512003	0.07	0.07	ND	1	05/06/08	05/08/08	U, M

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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: IRD1936

Sampled: 04/22/08
Received: 04/22/08

RSK175 Dissolved Gases in Water

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRD1936-01 (AW0075UB_WG20080422_01 - Water)									
Reporting Units: ug/L									
Methane	RSK-175	080424GC8A	0.39	1.0	**17**	1	04/24/08	04/24/08	
Ethane	RSK-175	080424GC8A	0.50	1.0	ND	1	04/24/08	04/24/08	
Ethylene	RSK-175	080424GC8A	0.33	1.0	**17**	1	04/24/08	04/24/08	
Sample ID: IRD1936-02 (AW0076UB_WG20080422_01 - Water)									
Reporting Units: ug/L									
Methane	RSK-175	080424GC8A	0.39	1.0	**540**	1	04/24/08	04/24/08	
Ethane	RSK-175	080424GC8A	0.50	1.0	ND	1	04/24/08	04/24/08	
Ethylene	RSK-175	080424GC8A	0.33	1.0	**57**	1	04/24/08	04/24/08	
Sample ID: IRD1936-03 (AW0077UB_WG20080422_01 - Water)									
Reporting Units: ug/L									
Methane	RSK-175	080424GC8A	0.39	1.0	**8000**	1	04/24/08	04/24/08	
Ethane	RSK-175	080424GC8A	0.50	1.0	ND	1	04/24/08	04/24/08	
Ethylene	RSK-175	080424GC8A	0.33	1.0	**96**	1	04/24/08	04/24/08	
Sample ID: IRD1936-04 (EWB002_WG20080422_01 - Water)									
Reporting Units: ug/L									
Methane	RSK-175	080424GC8A	0.39	1.0	**9400**	1	04/24/08	04/24/08	
Ethane	RSK-175	080424GC8A	0.50	1.0	ND	1	04/24/08	04/24/08	
Ethylene	RSK-175	080424GC8A	0.33	1.0	**18**	1	04/24/08	04/24/08	
Sample ID: IRD1936-05 (AW0073C_WG20080422_01 - Water)									
Reporting Units: ug/L									
Methane	RSK-175	080424GC8A	0.39	1.0	**110**	1	04/24/08	04/24/08	
Ethane	RSK-175	080424GC8A	0.50	1.0	ND	1	04/24/08	04/24/08	
Ethylene	RSK-175	080424GC8A	0.33	1.0	**2.9**	1	04/24/08	04/24/08	

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Attention: Michael Rendina

Project ID: Boeing C-6 Torrance (02/26/08)
1155.006
Report Number: IRD1936

Sampled: 04/22/08
Received: 04/22/08

SHORT HOLD TIME DETAIL REPORT

	Hold Time (in days)	Date/Time Sampled	Date/Time Received	Date/Time Extracted	Date/Time Analyzed
Sample ID: AW0075UB_WG20080422_01 (IRD1936-01) - Water					
EPA 300.0	2	04/22/2008 13:23	04/22/2008 17:00	04/22/2008 19:45	04/22/2008 20:13
Nitrite-NO2				04/22/2008 19:45	04/22/2008 20:27
Sample ID: AW0076UB_WG20080422_01 (IRD1936-02) - Water					
EPA 300.0	2	04/22/2008 12:47	04/22/2008 17:00	04/22/2008 19:45	04/22/2008 20:41
Nitrite-NO2				04/22/2008 19:45	04/22/2008 20:55
Sample ID: AW0077UB_WG20080422_01 (IRD1936-03) - Water					
EPA 300.0	2	04/22/2008 08:38	04/22/2008 17:00	04/22/2008 19:45	04/22/2008 21:08
Nitrite-NO2				04/22/2008 19:45	04/23/2008 01:59
Sample ID: EWB002_WG20080422_01 (IRD1936-04) - Water					
EPA 300.0	2	04/22/2008 10:49	04/22/2008 17:00	04/22/2008 19:45	04/22/2008 21:36
Nitrite-NO2				04/22/2008 19:45	04/22/2008 21:50
Sample ID: AW0073C_WG20080422_01 (IRD1936-05) - Water					
EPA 300.0	2	04/22/2008 09:54	04/22/2008 17:00	04/22/2008 19:45	04/22/2008 22:04

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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: IRD1936

Sampled: 04/22/08
Received: 04/22/08

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: 8D25005 Extracted: 04/25/08											
Blank Analyzed: 04/25/2008 (8D25005-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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1155.006
Report Number: IRD1936

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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: 8D25005 Extracted: 04/25/08											
Blank Analyzed: 04/25/2008 (8D25005-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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BOE-C6-0188766

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Avocet Environmental Inc.
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1155.006
Report Number: IRD1936

Sampled: 04/22/08
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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: 8D25005 Extracted: 04/25/08											
Blank Analyzed: 04/25/2008 (8D25005-BLK1)											
Surrogate: Dibromofluoromethane	*22.0*			*ug/l*	*25.0*		*88*	*80-120*			
Surrogate: Toluene-d8	*26.0*			*ug/l*	*25.0*		*104*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*24.1*			*ug/l*	*25.0*		*97*	*80-120*			
LCS Analyzed: 04/25/2008 (8D25005-BS1)											
Acetone	19.5	10	4.5	ug/l	25.0		78	30-140			
tert-Amyl Methyl Ether (TAME)	26.6	2.0	0.33	ug/l	25.0		106	60-135			
Benzene	29.6	0.50	0.28	ug/l	25.0		119	70-120			
Bromobenzene	24.8	1.0	0.27	ug/l	25.0		99	75-120			
Bromochloromethane	20.7	1.0	0.40	ug/l	25.0		83	70-130			
Bromodichloromethane	27.4	1.0	0.30	ug/l	25.0		110	70-135			
Bromoform	29.4	1.0	0.40	ug/l	25.0		117	55-130			
Bromomethane	29.0	1.0	0.42	ug/l	25.0		116	65-140			
tert-Butanol (TBA)	119	25	6.5	ug/l	125		95	70-135			
2-Butanone (MEK)	26.7	5.0	4.7	ug/l	25.0		107	40-140			
tert-Butylbenzene	25.4	1.0	0.22	ug/l	25.0		101	70-125			
n-Butylbenzene	29.6	1.0	0.37	ug/l	25.0		119	70-130			
sec-Butylbenzene	27.8	1.0	0.25	ug/l	25.0		111	70-125			
Carbon Disulfide	29.3	1.0	0.48	ug/l	25.0		117	50-130			
Carbon tetrachloride	25.9	0.50	0.28	ug/l	25.0		103	65-140			
Chlorobenzene	26.0	1.0	0.36	ug/l	25.0		104	75-120			
Chloroethane	30.7	2.0	0.40	ug/l	25.0		123	60-140			
Chloroform	24.3	1.0	0.33	ug/l	25.0		97	70-130			
Chloromethane	25.9	2.0	0.40	ug/l	25.0		104	50-140			
2-Chlorotoluene	26.6	1.0	0.28	ug/l	25.0		107	70-125			
4-Chlorotoluene	27.2	1.0	0.29	ug/l	25.0		109	75-125			
1,2-Dibromo-3-chloropropane	25.9	2.0	0.97	ug/l	25.0		103	50-135			
Dibromochloromethane	25.3	1.0	0.40	ug/l	25.0		101	70-140			
1,2-Dibromoethane (EDB)	26.1	1.0	0.40	ug/l	25.0		104	75-125			
1,3-Dichlorobenzene	25.1	1.0	0.35	ug/l	25.0		100	75-120			
1,4-Dichlorobenzene	23.4	1.0	0.37	ug/l	25.0		94	75-120			
1,2-Dichlorobenzene	24.6	1.0	0.32	ug/l	25.0		99	75-120			
Dichlorodifluoromethane	30.7	1.0	0.26	ug/l	25.0		123	35-155			
1,1-Dichloroethane	26.2	1.0	0.40	ug/l	25.0		105	70-125			
1,2-Dichloroethane	25.3	0.50	0.28	ug/l	25.0		101	60-140			
cis-1,2-Dichloroethene	22.5	1.0	0.32	ug/l	25.0		90	70-125			

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1155.006
Report Number: IRD1936

Sampled: 04/22/08
Received: 04/22/08

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: 8D25005 Extracted: 04/25/08											
LCS Analyzed: 04/25/2008 (8D25005-BS1)											
1,1-Dichloroethene	21.5	1.0	0.42	ug/l	25.0		86	70-125			
trans-1,2-Dichloroethene	23.8	1.0	0.30	ug/l	25.0		95	70-125			
2,2-Dichloropropane	28.6	1.0	0.34	ug/l	25.0		115	65-140			
1,2-Dichloropropane	28.6	1.0	0.35	ug/l	25.0		115	70-125			
cis-1,3-Dichloropropene	26.5	0.50	0.22	ug/l	25.0		106	75-125			
1,1-Dichloropropene	29.0	1.0	0.28	ug/l	25.0		116	75-130			
trans-1,3-Dichloropropene	26.2	0.50	0.32	ug/l	25.0		105	70-125			
Di-isopropyl Ether (DIPE)	23.8	2.0	0.25	ug/l	25.0		95	60-135			
Ethylbenzene	30.2	1.0	0.25	ug/l	25.0		121	75-125			
Ethyl tert-Butyl Ether (ETBE)	24.5	2.0	0.28	ug/l	25.0		98	65-135			
Hexachlorobutadiene	36.5	1.0	0.38	ug/l	25.0		146	65-135			*L*
2-Hexanone	26.5	6.0	2.6	ug/l	25.0		106	45-140			
Isopropylbenzene	31.1	1.0	0.25	ug/l	25.0		124	75-130			
p-Isopropyltoluene	26.1	1.0	0.28	ug/l	25.0		104	75-125			
Methyl-tert-butyl Ether (MTBE)	24.9	1.0	0.32	ug/l	25.0		100	60-135			
Methylene chloride	23.3	1.0	0.95	ug/l	25.0		93	55-130			
4-Methyl-2-pentanone (MIBK)	26.0	5.0	3.5	ug/l	25.0		104	45-140			
n-Propylbenzene	30.2	1.0	0.27	ug/l	25.0		121	75-130			
Styrene	28.8	1.0	0.20	ug/l	25.0		115	75-130			
1,1,1,2-Tetrachloroethane	24.2	1.0	0.27	ug/l	25.0		97	70-130			
1,1,2,2-Tetrachloroethane	27.0	1.0	0.30	ug/l	25.0		108	55-130			
Tetrachloroethene	28.2	1.0	0.32	ug/l	25.0		113	70-125			
Toluene	28.4	1.0	0.36	ug/l	25.0		113	70-120			
1,2,3-Trichlorobenzene	29.2	1.0	0.30	ug/l	25.0		117	65-125			
1,2,4-Trichlorobenzene	30.4	1.0	0.48	ug/l	25.0		121	70-135			
1,1,1-Trichloroethane	24.3	1.0	0.30	ug/l	25.0		97	65-135			
1,1,2-Trichloroethane	28.1	1.0	0.30	ug/l	25.0		112	70-125			
Trichloroethene	23.0	1.0	0.26	ug/l	25.0		92	70-125			
Trichlorofluoromethane	25.8	2.0	0.34	ug/l	25.0		103	65-145			
1,2,3-Trichloropropane	26.6	1.0	0.40	ug/l	25.0		106	60-130			
1,3,5-Trimethylbenzene	27.5	1.0	0.26	ug/l	25.0		110	75-125			
1,2,4-Trimethylbenzene	26.7	1.0	0.23	ug/l	25.0		107	75-125			
Vinyl acetate	26.5	6.0	1.0	ug/l	25.0		106	45-145			
Vinyl chloride	31.0	0.50	0.40	ug/l	25.0		124	55-135			
o-Xylene	28.3	0.50	0.30	ug/l	25.0		113	75-125			

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Project Manager

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BOE-C6-0188767

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: IRD1936

Sampled: 04/22/08
Received: 04/22/08

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: 8D25005 Extracted: 04/25/08											
LCS Analyzed: 04/25/2008 (8D25005-BS1)											
m,p-Xylenes	55.8	1.0	0.60	ug/l	50.0		112	75-125			
Surrogate: Dibromofluoromethane	*21.3*			*ug/l*	*25.0*		*85*	*80-120*			
Surrogate: Toluene-d8	*26.6*			*ug/l*	*25.0*		*106*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*25.6*			*ug/l*	*25.0*		*103*	*80-120*			
Matrix Spike Analyzed: 04/25/2008 (8D25005-MS1)						**Source: IRD1775-02**					
Acetone	20.9	10	4.5	ug/l	25.0	ND	84	20-150			
tert-Amyl Methyl Ether (TAME)	29.1	2.0	0.33	ug/l	25.0	ND	116	60-140			
Benzene	30.1	0.50	0.28	ug/l	25.0	0.370	119	65-125			
Bromobenzene	24.5	1.0	0.27	ug/l	25.0	ND	98	70-125			
Bromochloromethane	21.7	1.0	0.40	ug/l	25.0	ND	87	65-135			
Bromodichloromethane	29.3	1.0	0.30	ug/l	25.0	ND	117	70-135			
Bromoform	31.1	1.0	0.40	ug/l	25.0	ND	125	55-135			
Bromomethane	28.2	1.0	0.42	ug/l	25.0	ND	113	55-145			
tert-Butanol (TBA)	119	25	6.5	ug/l	125	ND	95	65-140			
2-Butanone (MEK)	29.9	5.0	4.7	ug/l	25.0	ND	120	30-145			
tert-Butylbenzene	25.3	1.0	0.22	ug/l	25.0	ND	101	65-130			
n-Butylbenzene	29.6	1.0	0.37	ug/l	25.0	ND	118	65-135			
sec-Butylbenzene	27.6	1.0	0.25	ug/l	25.0	0.250	109	70-125			
Carbon Disulfide	29.1	1.0	0.48	ug/l	25.0	ND	116	40-140			
Carbon tetrachloride	26.9	0.50	0.28	ug/l	25.0	ND	108	65-140			
Chlorobenzene	70.6	1.0	0.36	ug/l	25.0	44.6	104	75-125			
Chloroethane	30.9	2.0	0.40	ug/l	25.0	ND	123	55-140			
Chloroform	26.4	1.0	0.33	ug/l	25.0	ND	106	65-135			
Chloromethane	24.4	2.0	0.40	ug/l	25.0	ND	98	45-145			
2-Chlorotoluene	26.5	1.0	0.28	ug/l	25.0	ND	106	65-135			
4-Chlorotoluene	27.2	1.0	0.29	ug/l	25.0	ND	109	70-135			
1,2-Dibromo-3-chloropropane	28.9	2.0	0.97	ug/l	25.0	ND	116	45-145			
Dibromochloromethane	26.2	1.0	0.40	ug/l	25.0	ND	105	65-140			
1,2-Dibromoethane (EDB)	26.9	1.0	0.40	ug/l	25.0	ND	108	70-130			
1,3-Dichlorobenzene	28.8	1.0	0.35	ug/l	25.0	3.96	99	75-125			
1,4-Dichlorobenzene	38.4	1.0	0.37	ug/l	25.0	14.7	95	75-125			
1,2-Dichlorobenzene	35.2	1.0	0.32	ug/l	25.0	9.78	102	75-125			
Dichlorodifluoromethane	27.9	1.0	0.26	ug/l	25.0	ND	111	25-155			
1,1-Dichloroethane	30.3	1.0	0.40	ug/l	25.0	2.73	110	65-130			
1,2-Dichloroethane	28.6	0.50	0.28	ug/l	25.0	0.450	113	60-140			

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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: IRD1936

Sampled: 04/22/08
Received: 04/22/08

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: 8D25005 Extracted: 04/25/08											
Matrix Spike Analyzed: 04/25/2008 (8D25005-MS1)						**Source: IRD1775-02**					
cis-1,2-Dichloroethene	23.4	1.0	0.32	ug/l	25.0	ND	94	65-130			
1,1-Dichloroethene	21.6	1.0	0.42	ug/l	25.0	ND	86	60-130			
trans-1,2-Dichloroethene	23.9	1.0	0.30	ug/l	25.0	ND	96	65-130			
2,2-Dichloropropane	30.4	1.0	0.34	ug/l	25.0	ND	121	60-145			
1,2-Dichloropropane	29.7	1.0	0.35	ug/l	25.0	ND	119	65-130			
cis-1,3-Dichloropropene	27.5	0.50	0.22	ug/l	25.0	ND	110	70-130			
1,1-Dichloropropene	28.5	1.0	0.28	ug/l	25.0	ND	114	70-135			
trans-1,3-Dichloropropene	28.0	0.50	0.32	ug/l	25.0	ND	112	65-135			
Di-isopropyl Ether (DIPE)	25.8	2.0	0.25	ug/l	25.0	ND	103	60-140			
Ethylbenzene	30.3	1.0	0.25	ug/l	25.0	ND	121	65-130			
Ethyl tert-Butyl Ether (ETBE)	26.7	2.0	0.28	ug/l	25.0	ND	107	60-135			
Hexachlorobutadiene	35.8	1.0	0.38	ug/l	25.0	ND	143	60-135			*M7*
2-Hexanone	29.8	6.0	2.6	ug/l	25.0	ND	119	25-140			
Isopropylbenzene	30.2	1.0	0.25	ug/l	25.0	ND	121	70-135			
p-Isopropyltoluene	25.8	1.0	0.28	ug/l	25.0	ND	103	65-130			
Methyl-tert-butyl Ether (MTBE)	27.8	1.0	0.32	ug/l	25.0	ND	111	55-145			
Methylene chloride	25.3	1.0	0.95	ug/l	25.0	1.03	97	50-135			
4-Methyl-2-pentanone (MIBK)	29.0	5.0	3.5	ug/l	25.0	ND	116	40-140			
n-Propylbenzene	29.6	1.0	0.27	ug/l	25.0	ND	118	70-135			
Styrene	29.2	1.0	0.20	ug/l	25.0	ND	117	50-145			
1,1,1,2-Tetrachloroethane	24.9	1.0	0.27	ug/l	25.0	ND	100	65-140			
1,1,2,2-Tetrachloroethane	28.2	1.0	0.30	ug/l	25.0	ND	113	55-135			
Tetrachloroethene	27.0	1.0	0.32	ug/l	25.0	ND	108	65-130			
Toluene	28.6	1.0	0.36	ug/l	25.0	ND	115	70-125			
1,2,3-Trichlorobenzene	29.4	1.0	0.30	ug/l	25.0	ND	118	60-135			
1,2,4-Trichlorobenzene	49.6	1.0	0.48	ug/l	25.0	18.2	126	65-135			
1,1,1-Trichloroethane	25.7	1.0	0.30	ug/l	25.0	ND	103	65-140			
1,1,2-Trichloroethane	30.2	1.0	0.30	ug/l	25.0	ND	121	65-130			
Trichloroethene	24.3	1.0	0.26	ug/l	25.0	1.76	90	65-125			
Trichlorofluoromethane	27.2	2.0	0.34	ug/l	25.0	ND	109	60-145			
1,2,3-Trichloropropane	28.7	1.0	0.40	ug/l	25.0	ND	115	55-135			
1,3,5-Trimethylbenzene	27.1	1.0	0.26	ug/l	25.0	ND	108	70-130			
1,2,4-Trimethylbenzene	26.8	1.0	0.23	ug/l	25.0	ND	107	55-135			
Vinyl acetate	28.4	6.0	1.0	ug/l	25.0	ND	114	40-150			
Vinyl chloride	30.3	0.50	0.40	ug/l	25.0	ND	121	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: IRD1936

Sampled: 04/22/08
Received: 04/22/08

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: 8D25005 Extracted: 04/25/08											
Matrix Spike Analyzed: 04/25/2008 (8D25005-MS1)						**Source: IRD1775-02**					
o-Xylene	28.5	0.50	0.30	ug/l	25.0	ND	114	65-125			
m,p-Xylenes	55.7	1.0	0.60	ug/l	50.0	ND	111	65-130			
Surrogate: Dibromofluoromethane	*22.9*			*ug/l*	*25.0*		*92*	*80-120*			
Surrogate: Toluene-d8	*26.6*			*ug/l*	*25.0*		*107*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*26.7*			*ug/l*	*25.0*		*107*	*80-120*			
Matrix Spike Dup Analyzed: 04/25/2008 (8D25005-MSD1)						**Source: IRD1775-02**					
Acetone	21.6	10	4.5	ug/l	25.0	ND	86	20-150	3	35	
tert-Amyl Methyl Ether (TAME)	28.6	2.0	0.33	ug/l	25.0	ND	114	60-140	2	30	
Benzene	30.2	0.50	0.28	ug/l	25.0	0.370	119	65-125	0	20	
Bromobenzene	24.3	1.0	0.27	ug/l	25.0	ND	97	70-125	1	20	
Bromochloromethane	21.7	1.0	0.40	ug/l	25.0	ND	87	65-135	0	25	
Bromodichloromethane	28.5	1.0	0.30	ug/l	25.0	ND	114	70-135	2	20	
Bromoform	31.3	1.0	0.40	ug/l	25.0	ND	125	55-135	0	25	
Bromomethane	28.8	1.0	0.42	ug/l	25.0	ND	115	55-145	2	25	
tert-Butanol (TBA)	120	25	6.5	ug/l	125	ND	96	65-140	1	25	
2-Butanone (MEK)	30.4	5.0	4.7	ug/l	25.0	ND	122	30-145	2	40	
tert-Butylbenzene	25.5	1.0	0.22	ug/l	25.0	ND	102	65-130	1	20	
n-Butylbenzene	29.3	1.0	0.37	ug/l	25.0	ND	117	65-135	1	20	
sec-Butylbenzene	27.7	1.0	0.25	ug/l	25.0	0.250	110	70-125	0	20	
Carbon Disulfide	29.4	1.0	0.48	ug/l	25.0	ND	118	40-140	1	20	
Carbon tetrachloride	26.6	0.50	0.28	ug/l	25.0	ND	106	65-140	1	25	
Chlorobenzene	69.5	1.0	0.36	ug/l	25.0	44.6	100	75-125	2	20	
Chloroethane	32.3	2.0	0.40	ug/l	25.0	ND	129	55-140	5	25	
Chloroform	25.3	1.0	0.33	ug/l	25.0	ND	101	65-135	4	20	
Chloromethane	26.1	2.0	0.40	ug/l	25.0	ND	105	45-145	7	25	
2-Chlorotoluene	26.5	1.0	0.28	ug/l	25.0	ND	106	65-135	0	20	
4-Chlorotoluene	27.0	1.0	0.29	ug/l	25.0	ND	108	70-135	0	20	
1,2-Dibromo-3-chloropropane	29.6	2.0	0.97	ug/l	25.0	ND	119	45-145	3	30	
Dibromochloromethane	26.0	1.0	0.40	ug/l	25.0	ND	104	65-140	1	25	
1,2-Dibromoethane (EDB)	27.6	1.0	0.40	ug/l	25.0	ND	110	70-130	3	25	
1,3-Dichlorobenzene	28.6	1.0	0.35	ug/l	25.0	3.96	99	75-125	1	20	
1,4-Dichlorobenzene	37.8	1.0	0.37	ug/l	25.0	14.7	92	75-125	1	20	
1,2-Dichlorobenzene	34.9	1.0	0.32	ug/l	25.0	9.78	100	75-125	1	20	
Dichlorodifluoromethane	28.2	1.0	0.26	ug/l	25.0	ND	113	25-155	1	30	
1,1-Dichloroethane	29.9	1.0	0.40	ug/l	25.0	2.73	109	65-130	1	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: IRD1936

Sampled: 04/22/08
Received: 04/22/08

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: 8D25005 Extracted: 04/25/08											
Matrix Spike Dup Analyzed: 04/25/2008 (8D25005-MSD1)						**Source: IRD1775-02**					
1,2-Dichloroethane	27.8	0.50	0.28	ug/l	25.0	0.450	109	60-140	3	20	
cis-1,2-Dichloroethene	23.3	1.0	0.32	ug/l	25.0	ND	93	65-130	1	20	
1,1-Dichloroethene	22.1	1.0	0.42	ug/l	25.0	ND	88	60-130	2	20	
trans-1,2-Dichloroethene	24.2	1.0	0.30	ug/l	25.0	ND	97	65-130	1	20	
2,2-Dichloropropane	29.8	1.0	0.34	ug/l	25.0	ND	119	60-145	2	25	
1,2-Dichloropropane	29.2	1.0	0.35	ug/l	25.0	ND	117	65-130	2	20	
cis-1,3-Dichloropropene	27.1	0.50	0.22	ug/l	25.0	ND	109	70-130	1	20	
1,1-Dichloropropene	29.2	1.0	0.28	ug/l	25.0	ND	117	70-135	3	20	
trans-1,3-Dichloropropene	27.4	0.50	0.32	ug/l	25.0	ND	109	65-135	2	25	
Di-isopropyl Ether (DIPE)	25.3	2.0	0.25	ug/l	25.0	ND	101	60-140	2	25	
Ethylbenzene	30.4	1.0	0.25	ug/l	25.0	ND	122	65-130	1	20	
Ethyl tert-Butyl Ether (ETBE)	26.1	2.0	0.28	ug/l	25.0	ND	104	60-135	2	25	
Hexachlorobutadiene	36.3	1.0	0.38	ug/l	25.0	ND	145	60-135	1	20	*M7*
2-Hexanone	30.8	6.0	2.6	ug/l	25.0	ND	123	25-140	3	35	
Isopropylbenzene	30.6	1.0	0.25	ug/l	25.0	ND	122	70-135	1	20	
p-Isopropyltoluene	25.9	1.0	0.28	ug/l	25.0	ND	104	65-130	1	20	
Methyl-tert-butyl Ether (MTBE)	27.2	1.0	0.32	ug/l	25.0	ND	109	55-145	2	25	
Methylene chloride	24.8	1.0	0.95	ug/l	25.0	1.03	95	50-135	2	20	
4-Methyl-2-pentanone (MIBK)	30.1	5.0	3.5	ug/l	25.0	ND	120	40-140	4	35	
n-Propylbenzene	29.8	1.0	0.27	ug/l	25.0	ND	119	70-135	1	20	
Styrene	29.1	1.0	0.20	ug/l	25.0	ND	116	50-145	0	30	
1,1,1,2-Tetrachloroethane	24.4	1.0	0.27	ug/l	25.0	ND	98	65-140	2	20	
1,1,2,2-Tetrachloroethane	29.0	1.0	0.30	ug/l	25.0	ND	116	55-135	3	30	
Tetrachloroethene	27.6	1.0	0.32	ug/l	25.0	ND	111	65-130	3	20	
Toluene	28.7	1.0	0.36	ug/l	25.0	ND	115	70-125	0	20	
1,2,3-Trichlorobenzene	30.2	1.0	0.30	ug/l	25.0	ND	121	60-135	2	20	
1,2,4-Trichlorobenzene	49.8	1.0	0.48	ug/l	25.0	18.2	127	65-135	1	20	
1,1,1-Trichloroethane	25.4	1.0	0.30	ug/l	25.0	ND	102	65-140	1	20	
1,1,2-Trichloroethane	29.7	1.0	0.30	ug/l	25.0	ND	119	65-130	2	25	
Trichloroethene	24.5	1.0	0.26	ug/l	25.0	1.76	91	65-125	1	20	
Trichlorofluoromethane	27.0	2.0	0.34	ug/l	25.0	ND	108	60-145	1	25	
1,2,3-Trichloropropane	29.8	1.0	0.40	ug/l	25.0	ND	119	55-135	4	30	
1,3,5-Trimethylbenzene	27.1	1.0	0.26	ug/l	25.0	ND	108	70-130	0	20	
1,2,4-Trimethylbenzene	26.6	1.0	0.23	ug/l	25.0	ND	106	55-135	1	25	
Vinyl acetate	28.8	6.0	1.0	ug/l	25.0	ND	115	40-150	2	30	

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Project Manager

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BOE-C6-0188769

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: IRD1936

Sampled: 04/22/08
Received: 04/22/08

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: 8D25005 Extracted: 04/25/08											
Matrix Spike Dup Analyzed: 04/25/2008 (8D25005-MSD1)					Source: IRD1775-02						
Vinyl chloride	31.5	0.50	0.40	ug/l	25.0	ND	126	45-140	4	30	
o-Xylene	28.4	0.50	0.30	ug/l	25.0	ND	113	65-125	1	20	
m,p-Xylenes	55.7	1.0	0.60	ug/l	50.0	ND	111	65-130	0	25	
Surrogate: Dibromofluoromethane	*22.2*			*ug/l*	*25.0*		*89*	*80-120*			
Surrogate: Toluene-d8	*26.5*			*ug/l*	*25.0*		*106*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*26.0*			*ug/l*	*25.0*		*104*	*80-120*			
Batch: 8D27001 Extracted: 04/27/08											
Blank Analyzed: 04/27/2008 (8D27001-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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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: IRD1936

Sampled: 04/22/08
Received: 04/22/08

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: 8D27001 Extracted: 04/27/08											
Blank Analyzed: 04/27/2008 (8D27001-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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BOE-C6-0188770

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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: IRD1936

Sampled: 04/22/08
Received: 04/22/08

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: 8D27001 Extracted: 04/27/08											
Blank Analyzed: 04/27/2008 (8D27001-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	*23.9*			*ug/l*	*25.0*		*96*	*80-120*			
Surrogate: Toluene-d8	*24.0*			*ug/l*	*25.0*		*96*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*20.9*			*ug/l*	*25.0*		*83*	*80-120*			
LCS Analyzed: 04/27/2008 (8D27001-BS1)											
Acetone	30.8	10	4.5	ug/l	25.0		123	30-140			
tert-Amyl Methyl Ether (TAME)	28.7	2.0	0.33	ug/l	25.0		115	60-135			
Benzene	25.4	0.50	0.28	ug/l	25.0		101	70-120			
Bromobenzene	22.6	1.0	0.27	ug/l	25.0		91	75-120			
Bromochloromethane	24.4	1.0	0.40	ug/l	25.0		98	70-130			
Bromodichloromethane	24.8	1.0	0.30	ug/l	25.0		99	70-135			
Bromoform	20.0	1.0	0.40	ug/l	25.0		80	55-130			
Bromomethane	29.2	1.0	0.42	ug/l	25.0		117	65-140			
tert-Butanol (TBA)	121	25	6.5	ug/l	125		97	70-135			
2-Butanone (MEK)	31.6	5.0	4.7	ug/l	25.0		126	40-140			
tert-Butylbenzene	26.0	1.0	0.22	ug/l	25.0		104	70-125			
n-Butylbenzene	27.5	1.0	0.37	ug/l	25.0		110	70-130			
sec-Butylbenzene	26.5	1.0	0.25	ug/l	25.0		106	70-125			
Carbon Disulfide	26.1	1.0	0.48	ug/l	25.0		105	50-130			
Carbon tetrachloride	22.9	0.50	0.28	ug/l	25.0		91	65-140			
Chlorobenzene	22.0	1.0	0.36	ug/l	25.0		88	75-120			
Chloroethane	30.2	2.0	0.40	ug/l	25.0		121	60-140			
Chloroform	25.4	1.0	0.33	ug/l	25.0		102	70-130			
Chloromethane	27.6	2.0	0.40	ug/l	25.0		110	50-140			
2-Chlorotoluene	25.6	1.0	0.28	ug/l	25.0		102	70-125			
4-Chlorotoluene	26.0	1.0	0.29	ug/l	25.0		104	75-125			
1,2-Dibromo-3-chloropropane	23.8	2.0	0.97	ug/l	25.0		95	50-135			

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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: IRD1936

Sampled: 04/22/08
Received: 04/22/08

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: 8D27001 Extracted: 04/27/08											
LCS Analyzed: 04/27/2008 (8D27001-BS1)											
Dibromochloromethane	21.1	1.0	0.40	ug/l	25.0		84	70-140			
1,2-Dibromoethane (EDB)	25.3	1.0	0.40	ug/l	25.0		101	75-125			
1,3-Dichlorobenzene	23.8	1.0	0.35	ug/l	25.0		95	75-120			
1,4-Dichlorobenzene	21.8	1.0	0.37	ug/l	25.0		87	75-120			
1,2-Dichlorobenzene	23.5	1.0	0.32	ug/l	25.0		94	75-120			
Dichlorodifluoromethane	20.3	1.0	0.26	ug/l	25.0		81	35-155			
1,1-Dichloroethane	27.4	1.0	0.40	ug/l	25.0		110	70-125			
1,2-Dichloroethane	23.3	0.50	0.28	ug/l	25.0		93	60-140			
cis-1,2-Dichloroethene	24.6	1.0	0.32	ug/l	25.0		98	70-125			
1,1-Dichloroethene	21.4	1.0	0.42	ug/l	25.0		86	70-125			
trans-1,2-Dichloroethene	24.3	1.0	0.30	ug/l	25.0		97	70-125			
2,2-Dichloropropane	28.6	1.0	0.34	ug/l	25.0		114	65-140			
1,2-Dichloropropane	24.6	1.0	0.35	ug/l	25.0		99	70-125			
cis-1,3-Dichloropropene	24.0	0.50	0.22	ug/l	25.0		96	75-125			
1,1-Dichloropropene	23.2	1.0	0.28	ug/l	25.0		93	75-130			
trans-1,3-Dichloropropene	20.6	0.50	0.32	ug/l	25.0		83	70-125			
Di-isopropyl Ether (DIPE)	30.8	2.0	0.25	ug/l	25.0		123	60-135			
Ethylbenzene	25.2	1.0	0.25	ug/l	25.0		101	75-125			
Ethyl tert-Butyl Ether (ETBE)	28.8	2.0	0.28	ug/l	25.0		115	65-135			
Hexachlorobutadiene	21.2	1.0	0.38	ug/l	25.0		85	65-135			
2-Hexanone	28.8	6.0	2.6	ug/l	25.0		115	45-140			
Isopropylbenzene	30.0	1.0	0.25	ug/l	25.0		120	75-130			
p-Isopropyltoluene	25.2	1.0	0.28	ug/l	25.0		101	75-125			
Methyl-tert-butyl Ether (MTBE)	27.3	1.0	0.32	ug/l	25.0		109	60-135			
Methylene chloride	22.6	1.0	0.95	ug/l	25.0		90	55-130			
4-Methyl-2-pentanone (MIBK)	29.8	5.0	3.5	ug/l	25.0		119	45-140			
n-Propylbenzene	28.4	1.0	0.27	ug/l	25.0		114	75-130			
Styrene	22.1	1.0	0.20	ug/l	25.0		88	75-130			
1,1,1,2-Tetrachloroethane	23.1	1.0	0.27	ug/l	25.0		93	70-130			
1,1,2,2-Tetrachloroethane	27.7	1.0	0.30	ug/l	25.0		111	55-130			
Tetrachloroethene	21.3	1.0	0.32	ug/l	25.0		85	70-125			
Toluene	26.0	1.0	0.36	ug/l	25.0		104	70-120			
1,2,3-Trichlorobenzene	22.4	1.0	0.30	ug/l	25.0		89	65-125			
1,2,4-Trichlorobenzene	23.0	1.0	0.48	ug/l	25.0		92	70-135			
1,1,1-Trichloroethane	25.6	1.0	0.30	ug/l	25.0		102	65-135			

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BOE-C6-0188771

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: IRD1936

Sampled: 04/22/08
Received: 04/22/08

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: 8D27001 Extracted: 04/27/08											
LCS Analyzed: 04/27/2008 (8D27001-BS1)											
1,1,2-Trichloroethane	25.2	1.0	0.30	ug/l	25.0		101	70-125			
Trichloroethene	21.7	1.0	0.26	ug/l	25.0		87	70-125			
Trichlorofluoromethane	26.1	2.0	0.34	ug/l	25.0		104	65-145			
1,2,3-Trichloropropane	26.9	1.0	0.40	ug/l	25.0		108	60-130			
1,3,5-Trimethylbenzene	26.3	1.0	0.26	ug/l	25.0		105	75-125			
1,2,4-Trimethylbenzene	25.7	1.0	0.23	ug/l	25.0		103	75-125			
Vinyl acetate	31.7	6.0	1.0	ug/l	25.0		127	45-145			
Vinyl chloride	31.8	0.50	0.40	ug/l	25.0		127	55-135			
o-Xylene	25.4	0.50	0.30	ug/l	25.0		102	75-125			
m,p-Xylenes	50.8	1.0	0.60	ug/l	50.0		102	75-125			
Surrogate: Dibromofluoromethane	*24.8*			*ug/l*	*25.0*		*99*	*80-120*			
Surrogate: Toluene-d8	*23.8*			*ug/l*	*25.0*		*95*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*24.0*			*ug/l*	*25.0*		*96*	*80-120*			
Matrix Spike Analyzed: 04/27/2008 (8D27001-MS1)						**Source: IRD1734-09RE1**					
Acetone	636	200	90	ug/l	500	97.0	108	20-150			
tert-Amyl Methyl Ether (TAME)	626	40	6.6	ug/l	500	ND	125	60-140			
Benzene	566	10	5.6	ug/l	500	ND	113	65-125			
Bromobenzene	496	20	5.4	ug/l	500	ND	99	70-125			
Bromochloromethane	525	20	8.0	ug/l	500	ND	105	65-135			
Bromodichloromethane	565	20	6.0	ug/l	500	ND	113	70-135			
Bromoform	432	20	8.0	ug/l	500	98.6	67	55-135			
Bromomethane	667	20	8.4	ug/l	500	ND	133	55-145			
tert-Butanol (TBA)	2740	500	130	ug/l	2500	ND	110	65-140			
2-Butanone (MEK)	619	100	94	ug/l	500	ND	124	30-145			
tert-Butylbenzene	566	20	4.4	ug/l	500	ND	113	65-130			
n-Butylbenzene	608	20	7.4	ug/l	500	ND	122	65-135			
sec-Butylbenzene	574	20	5.0	ug/l	500	ND	115	70-125			
Carbon Disulfide	595	20	9.6	ug/l	500	ND	119	40-140			
Carbon tetrachloride	520	10	5.6	ug/l	500	ND	104	65-140			
Chlorobenzene	484	20	7.2	ug/l	500	ND	97	75-125			
Chloroethane	684	40	8.0	ug/l	500	ND	137	55-140			
Chloroform	560	20	6.6	ug/l	500	ND	112	65-135			
Chloromethane	627	40	8.0	ug/l	500	ND	125	45-145			
2-Chlorotoluene	561	20	5.6	ug/l	500	ND	112	65-135			
4-Chlorotoluene	570	20	5.8	ug/l	500	ND	114	70-135			

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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)
1155.006
Report Number: IRD1936

Sampled: 04/22/08
Received: 04/22/08

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: 8D27001 Extracted: 04/27/08											
Matrix Spike Analyzed: 04/27/2008 (8D27001-MS1)						**Source: IRD1734-09RE1**					
1,2-Dibromo-3-chloropropane	491	40	19	ug/l	500	ND	98	45-145			
Dibromochloromethane	459	20	8.0	ug/l	500	ND	92	65-140			
1,2-Dibromoethane (EDB)	539	20	8.0	ug/l	500	ND	108	70-130			
1,3-Dichlorobenzene	522	20	7.0	ug/l	500	ND	104	75-125			
1,4-Dichlorobenzene	490	20	7.4	ug/l	500	ND	98	75-125			
1,2-Dichlorobenzene	532	20	6.4	ug/l	500	8.40	105	75-125			
Dichlorodifluoromethane	528	20	5.2	ug/l	500	ND	106	25-155			
1,1-Dichloroethane	609	20	8.0	ug/l	500	ND	122	65-130			
1,2-Dichloroethane	506	10	5.6	ug/l	500	ND	101	60-140			
cis-1,2-Dichloroethene	556	20	6.4	ug/l	500	8.20	110	65-130			
1,1-Dichloroethene	471	20	8.4	ug/l	500	ND	94	60-130			
trans-1,2-Dichloroethene	541	20	6.0	ug/l	500	ND	108	65-130			
2,2-Dichloropropane	654	20	6.8	ug/l	500	ND	131	60-145			
1,2-Dichloropropane	557	20	7.0	ug/l	500	ND	111	65-130			
cis-1,3-Dichloropropene	538	10	4.4	ug/l	500	ND	108	70-130			
1,1-Dichloropropene	528	20	5.6	ug/l	500	ND	106	70-135			
trans-1,3-Dichloropropene	451	10	6.4	ug/l	500	ND	90	65-135			
Di-isopropyl Ether (DIPE)	666	40	5.0	ug/l	500	ND	133	60-140			
Ethylbenzene	555	20	5.0	ug/l	500	ND	111	65-130			
Ethyl tert-Butyl Ether (ETBE)	625	40	5.6	ug/l	500	ND	125	60-135			
Hexachlorobutadiene	506	20	7.6	ug/l	500	ND	101	60-135			
2-Hexanone	568	120	52	ug/l	500	ND	114	25-140			
Isopropylbenzene	655	20	5.0	ug/l	500	ND	131	70-135			
p-Isopropyltoluene	557	20	5.6	ug/l	500	ND	111	65-130			
Methyl-tert-butyl Ether (MTBE)	585	20	6.4	ug/l	500	ND	117	55-145			
Methylene chloride	524	20	19	ug/l	500	31.2	98	50-135			
4-Methyl-2-pentanone (MIBK)	595	100	70	ug/l	500	ND	119	40-140			
n-Propylbenzene	617	20	5.4	ug/l	500	ND	123	70-135			
Styrene	399	20	4.0	ug/l	500	ND	80	50-145			
1,1,1,2-Tetrachloroethane	518	20	5.4	ug/l	500	ND	104	65-140			
1,1,2,2-Tetrachloroethane	594	20	6.0	ug/l	500	ND	119	55-135			
Tetrachloroethene	505	20	6.4	ug/l	500	32.2	95	65-130			
Toluene	580	20	7.2	ug/l	500	ND	116	70-125			
1,2,3-Trichlorobenzene	508	20	6.0	ug/l	500	ND	102	60-135			
1,2,4-Trichlorobenzene	522	20	9.6	ug/l	500	ND	104	65-135			

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Project Manager

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BOE-C6-0188772

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: IRD1936

Sampled: 04/22/08
Received: 04/22/08

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: 8D27001 Extracted: 04/27/08											
Matrix Spike Analyzed: 04/27/2008 (8D27001-MS1)						**Source: IRD1734-09RE1**					
1,1,1-Trichloroethane	568	20	6.0	ug/l	500	ND	114	65-140			
1,1,2-Trichloroethane	547	20	6.0	ug/l	500	ND	109	65-130			
Trichloroethene	1400	20	5.2	ug/l	500	947	91	65-125			
Trichlorofluoromethane	582	40	6.8	ug/l	500	ND	116	60-145			
1,2,3-Trichloropropane	549	20	8.0	ug/l	500	ND	110	55-135			
1,3,5-Trimethylbenzene	560	20	5.2	ug/l	500	ND	112	70-130			
1,2,4-Trimethylbenzene	549	20	4.6	ug/l	500	ND	110	55-135			
Vinyl acetate	702	120	20	ug/l	500	ND	140	40-150			
Vinyl chloride	649	10	8.0	ug/l	500	ND	130	45-140			
o-Xylene	567	10	6.0	ug/l	500	ND	113	65-125			
m,p-Xylenes	1110	20	12	ug/l	1000	ND	111	65-130			
Surrogate: Dibromofluoromethane	*484*			*ug/l*	*500*		*97*	*80-120*			
Surrogate: Toluene-d8	*477*			*ug/l*	*500*		*95*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*478*			*ug/l*	*500*		*96*	*80-120*			
Matrix Spike Dup Analyzed: 04/27/2008 (8D27001-MSD1)						**Source: IRD1734-09RE1**					
Acetone	656	200	90	ug/l	500	97.0	112	20-150	3	35	
tert-Amyl Methyl Ether (TAME)	624	40	6.6	ug/l	500	ND	125	60-140	0	30	
Benzene	577	10	5.6	ug/l	500	ND	115	65-125	2	20	
Bromobenzene	509	20	5.4	ug/l	500	ND	102	70-125	3	20	
Bromochloromethane	521	20	8.0	ug/l	500	ND	104	65-135	1	25	
Bromodichloromethane	573	20	6.0	ug/l	500	ND	115	70-135	1	20	
Bromoform	441	20	8.0	ug/l	500	98.6	68	55-135	2	25	
Bromomethane	670	20	8.4	ug/l	500	ND	134	55-145	0	25	
tert-Butanol (TBA)	2710	500	130	ug/l	2500	ND	109	65-140	1	25	
2-Butanone (MEK)	646	100	94	ug/l	500	ND	129	30-145	4	40	
tert-Butylbenzene	584	20	4.4	ug/l	500	ND	117	65-130	3	20	
n-Butylbenzene	615	20	7.4	ug/l	500	ND	123	65-135	1	20	
sec-Butylbenzene	588	20	5.0	ug/l	500	ND	118	70-125	3	20	
Carbon Disulfide	596	20	9.6	ug/l	500	ND	119	40-140	0	20	
Carbon tetrachloride	525	10	5.6	ug/l	500	ND	105	65-140	1	25	
Chlorobenzene	486	20	7.2	ug/l	500	ND	97	75-125	0	20	
Chloroethane	689	40	8.0	ug/l	500	ND	138	55-140	1	25	
Chloroform	556	20	6.6	ug/l	500	ND	111	65-135	1	20	
Chloromethane	682	40	8.0	ug/l	500	ND	136	45-145	8	25	
2-Chlorotoluene	571	20	5.6	ug/l	500	ND	114	65-135	2	20	

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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: IRD1936

Sampled: 04/22/08
Received: 04/22/08

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: 8D27001 Extracted: 04/27/08											
Matrix Spike Dup Analyzed: 04/27/2008 (8D27001-MSD1)						**Source: IRD1734-09RE1**					
4-Chlorotoluene	575	20	5.8	ug/l	500	ND	115	70-135	1	20	
1,2-Dibromo-3-chloropropane	504	40	19	ug/l	500	ND	101	45-145	3	30	
Dibromochloromethane	459	20	8.0	ug/l	500	ND	92	65-140	0	25	
1,2-Dibromoethane (EDB)	547	20	8.0	ug/l	500	ND	109	70-130	1	25	
1,3-Dichlorobenzene	529	20	7.0	ug/l	500	ND	106	75-125	1	20	
1,4-Dichlorobenzene	499	20	7.4	ug/l	500	ND	100	75-125	2	20	
1,2-Dichlorobenzene	537	20	6.4	ug/l	500	8.40	106	75-125	1	20	
Dichlorodifluoromethane	565	20	5.2	ug/l	500	ND	113	25-155	7	30	
1,1-Dichloroethane	603	20	8.0	ug/l	500	ND	121	65-130	1	20	
1,2-Dichloroethane	520	10	5.6	ug/l	500	ND	104	60-140	3	20	
cis-1,2-Dichloroethene	552	20	6.4	ug/l	500	8.20	109	65-130	1	20	
1,1-Dichloroethene	469	20	8.4	ug/l	500	ND	94	60-130	0	20	
trans-1,2-Dichloroethene	535	20	6.0	ug/l	500	ND	107	65-130	1	20	
2,2-Dichloropropane	655	20	6.8	ug/l	500	ND	131	60-145	0	25	
1,2-Dichloropropane	564	20	7.0	ug/l	500	ND	113	65-130	1	20	
cis-1,3-Dichloropropene	545	10	4.4	ug/l	500	ND	109	70-130	1	20	
1,1-Dichloropropene	532	20	5.6	ug/l	500	ND	106	70-135	1	20	
trans-1,3-Dichloropropene	461	10	6.4	ug/l	500	ND	92	65-135	2	25	
Di-isopropyl Ether (DIPE)	658	40	5.0	ug/l	500	ND	132	60-140	1	25	
Ethylbenzene	556	20	5.0	ug/l	500	ND	111	65-130	0	20	
Ethyl tert-Butyl Ether (ETBE)	623	40	5.6	ug/l	500	ND	125	60-135	0	25	
Hexachlorobutadiene	504	20	7.6	ug/l	500	ND	101	60-135	0	20	
2-Hexanone	594	120	52	ug/l	500	ND	119	25-140	4	35	
Isopropylbenzene	676	20	5.0	ug/l	500	ND	135	70-135	3	20	
p-Isopropyltoluene	563	20	5.6	ug/l	500	ND	113	65-130	1	20	
Methyl-tert-butyl Ether (MTBE)	586	20	6.4	ug/l	500	ND	117	55-145	0	25	
Methylene chloride	522	20	19	ug/l	500	31.2	98	50-135	0	20	
4-Methyl-2-pentanone (MIBK)	630	100	70	ug/l	500	ND	126	40-140	6	35	
n-Propylbenzene	637	20	5.4	ug/l	500	ND	127	70-135	3	20	
Styrene	395	20	4.0	ug/l	500	ND	79	50-145	1	30	
1,1,1,2-Tetrachloroethane	535	20	5.4	ug/l	500	ND	107	65-140	3	20	
1,1,2,2-Tetrachloroethane	610	20	6.0	ug/l	500	ND	122	55-135	3	30	
Tetrachloroethene	508	20	6.4	ug/l	500	32.2	95	65-130	1	20	
Toluene	583	20	7.2	ug/l	500	ND	117	70-125	1	20	
1,2,3-Trichlorobenzene	505	20	6.0	ug/l	500	ND	101	60-135	0	20	

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BOE-C6-0188773

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: IRD1936

Sampled: 04/22/08
Received: 04/22/08

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: 8D27001 Extracted: 04/27/08											
Matrix Spike Dup Analyzed: 04/27/2008 (8D27001-MSD1)						**Source: IRD1734-09RE1**					
1,2,4-Trichlorobenzene	528	20	9.6	ug/l	500	ND	106	65-135	1	20	
1,1,1-Trichloroethane	556	20	6.0	ug/l	500	ND	111	65-140	2	20	
1,1,2-Trichloroethane	565	20	6.0	ug/l	500	ND	113	65-130	3	25	
Trichloroethene	1370	20	5.2	ug/l	500	947	86	65-125	2	20	
Trichlorofluoromethane	576	40	6.8	ug/l	500	ND	115	60-145	1	25	
1,2,3-Trichloropropane	573	20	8.0	ug/l	500	ND	115	55-135	4	30	
1,3,5-Trimethylbenzene	566	20	5.2	ug/l	500	ND	113	70-130	1	20	
1,2,4-Trimethylbenzene	554	20	4.6	ug/l	500	ND	111	55-135	1	25	
Vinyl acetate	701	120	20	ug/l	500	ND	140	40-150	0	30	
Vinyl chloride	731	10	8.0	ug/l	500	ND	146	45-140	12	30	*M1*
o-Xylene	563	10	6.0	ug/l	500	ND	113	65-125	1	20	
m,p-Xylenes	1100	20	12	ug/l	1000	ND	110	65-130	1	25	
Surrogate: Dibromofluoromethane	*481*			*ug/l*	*500*		*96*	*80-120*			
Surrogate: Toluene-d8	*483*			*ug/l*	*500*		*97*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*472*			*ug/l*	*500*		*94*	*80-120*			
Batch: 8D30013 Extracted: 04/30/08											
Blank Analyzed: 04/30/2008 (8D30013-BLK1)											
Tetrahydrofuran (THF)	ND	10	3.5	ug/l							
Surrogate: Dibromofluoromethane	*24.2*			*ug/l*	*25.0*		*97*	*80-120*			
Surrogate: Toluene-d8	*24.1*			*ug/l*	*25.0*		*96*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*23.3*			*ug/l*	*25.0*		*93*	*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: IRD1936

Sampled: 04/22/08
Received: 04/22/08

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8D22053 Extracted: 04/22/08											
Blank Analyzed: 04/22/2008 (8D22053-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: 04/22/2008 (8D22053-BS1)											
Chloride	4.76	0.50	0.25	mg/l	5.00		95	90-110			*M-3*
Nitrate-NO3	4.90	0.50	0.25	mg/l	5.00		98	90-110			
Nitrite-NO2	4.73	0.50	0.30	mg/l	5.00		95	90-110			
Sulfate	9.70	0.50	0.20	mg/l	10.0		97	90-110			*M-3*
Matrix Spike Analyzed: 04/22/2008 (8D22053-MS1)						**Source: IRD1921-01**					
Chloride	6.62	0.50	0.25	mg/l	5.00	1.82	96	80-120			
Nitrate-NO3	6.29	0.50	0.25	mg/l	5.00	1.12	103	80-120			
Nitrite-NO2	5.33	0.50	0.30	mg/l	5.00	ND	107	80-120			
Sulfate	15.8	0.50	0.20	mg/l	10.0	5.86	99	80-120			
Matrix Spike Analyzed: 04/23/2008 (8D22053-MS2)						**Source: IRD1977-04**					
Nitrate-NO3	8.18	0.50	0.25	mg/l	5.00	3.15	101	80-120			
Nitrite-NO2	6.19	0.50	0.30	mg/l	5.00	ND	124	80-120			*M1*
Matrix Spike Dup Analyzed: 04/22/2008 (8D22053-MSD1)						**Source: IRD1921-01**					
Chloride	6.63	0.50	0.25	mg/l	5.00	1.82	96	80-120	0	20	
Nitrate-NO3	6.44	0.50	0.25	mg/l	5.00	1.12	106	80-120	2	20	
Nitrite-NO2	5.37	0.50	0.30	mg/l	5.00	ND	107	80-120	1	20	
Sulfate	15.8	0.50	0.20	mg/l	10.0	5.86	100	80-120	0	20	

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BOE-C6-0188774

Avocet Environmental Inc.
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Project ID: Boeing C-6 Torrance (02/26/08)
1155.006
Report Number: IRD1936

Sampled: 04/22/08
Received: 04/22/08

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8D23049 Extracted: 04/23/08											
Blank Analyzed: 04/23/2008 (8D23049-BLK1)											
Alkalinity as CaCO3	ND	2.0	2.0	mg/l							
Duplicate Analyzed: 04/23/2008 (8D23049-DUP1)						Source: IRD1996-01					
Alkalinity as CaCO3	58.0	2.0	2.0	mg/l		56.0			4	20	
Reference Analyzed: 04/23/2008 (8D23049-SRM1)											
Alkalinity as CaCO3	136	2.0	2.0	mg/l	146		93	90-110			

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1155.006
Report Number: IRD1936

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Received: 04/22/08

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: 8D29087 Extracted: 04/29/08											
Blank Analyzed: 04/29/2008 (8D29087-BLK1)											
Total Organic Carbon	ND	1.0	0.50	mg/l							
LCS Analyzed: 04/29/2008 (8D29087-BS1)											
Total Organic Carbon	10.0	1.0	0.50	mg/l	10.0		100	90-110			
Matrix Spike Analyzed: 04/29/2008 (8D29087-MS1)						Source: IRD1954-02					
Total Organic Carbon	12.0	1.0	0.50	mg/l	5.00	7.05	99	80-120			
Matrix Spike Dup Analyzed: 04/29/2008 (8D29087-MSD1)						Source: IRD1954-02					
Total Organic Carbon	11.8	1.0	0.50	mg/l	5.00	7.05	95	80-120	2	20	

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BOE-C6-0188775

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Project ID: Boeing C-6 Torrance (02/26/08)
1155.006
Report Number: IRD1936

Sampled: 04/22/08
Received: 04/22/08

METHOD BLANK/QC DATA

Volatile Fatty Acids by Ion Chromatography

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: M080512003 Extracted: 05/06/08											
LCS Analyzed: 05/07/2008 (M080512003-LCS)						Source:					
Acetic Acid	1.6	0.07	0.04	mg/L	2		80	70-130		20	
Butyric Acid	1.7	0.07	0.06	mg/L	2		85	70-130		20	
Hexanoic Acid	1.7	0.1	0.08	mg/L	2		85	70-130		20	
i-Hexanoic Acid	1.5	0.1	0.08	mg/L	2		75	70-130		20	
i-Pentanoic Acid	1.7	0.07	0.07	mg/L	2		85	70-130		20	
Lactic Acid and HIBA	2	0.1	0.07	mg/L	2		100	70-130		20	
Pentanoic Acid	1.7	0.07	0.07	mg/L	2		85	70-130		20	
Propionic Acid	1.6	0.07	0.05	mg/L	2		80	70-130		20	
Pyruvic Acid	1.8	0.07	0.07	mg/L	2		90	70-130		20	
Blank Analyzed: 05/07/2008 (M080512003-MB)						Source:					
Acetic Acid	ND	0.07	0.04	mg/L				70-130		0	*U*
Butyric Acid	ND	0.07	0.06	mg/L				70-130		0	*U*
Hexanoic Acid	ND	0.1	0.08	mg/L				70-130		0	*U*
i-Hexanoic Acid	ND	0.1	0.08	mg/L				70-130		0	*U*
i-Pentanoic Acid	ND	0.07	0.07	mg/L				70-130		0	*U*
Lactic Acid and HIBA	0.08	0.1	0.07	mg/L				70-130		0	*J*
Pentanoic Acid	ND	0.07	0.07	mg/L				70-130		0	*U*
Propionic Acid	ND	0.07	0.05	mg/L				70-130		0	*U*
Pyruvic Acid	ND	0.07	0.07	mg/L				70-130		0	*U*
MatrixSpike Analyzed: 05/07/2008 (M080512003-MS)						Source: IRD1936-01					
Hexanoic Acid	2	0.1	0.08	mg/L	2	0.69	66	70-130		30	
i-Hexanoic Acid	2.1	0.1	0.08	mg/L	2	0.44	83	70-130		30	
MatrixSpikeDup Analyzed: 05/07/2008 (M080512003-MSD)						Source: IRD1936-01					
Hexanoic Acid	2.1	0.1	0.08	mg/L	2	0.69	71	70-130	5	40	
i-Hexanoic Acid	2	0.1	0.08	mg/L	2	0.44	78	70-130	5	40	

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1155.006
Report Number: IRD1936

Sampled: 04/22/08
Received: 04/22/08

METHOD BLANK/QC DATA

Volatile Fatty Acids by Ion Chromatography

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: M080512006 Extracted: 05/08/08											
LCS Analyzed: 05/08/2008 (M080512006-LCS)						Source:					
Butyric Acid	1.8	0.07	0.06	mg/L	2		90	70-130		20	
Hexanoic Acid	1.7	0.1	0.08	mg/L	2		85	70-130		20	
i-Pentanoic Acid	1.8	0.07	0.07	mg/L	2		90	70-130		20	
Pentanoic Acid	1.7	0.07	0.07	mg/L	2		85	70-130		20	
Pyruvic Acid	1.8	0.07	0.07	mg/L	2		90	70-130		20	
Blank Analyzed: 05/08/2008 (M080512006-MB)						Source:					
Butyric Acid	ND	0.07	0.06	mg/L				70-130		0	*U*
Hexanoic Acid	ND	0.1	0.08	mg/L				70-130		0	*U*
i-Pentanoic Acid	ND	0.07	0.07	mg/L				70-130		0	*U*
Pentanoic Acid	ND	0.07	0.07	mg/L				70-130		0	*U*
Pyruvic Acid	ND	0.07	0.07	mg/L				70-130		0	*U*
Batch: M080512007 Extracted: 05/08/08											
LCS Analyzed: 05/08/2008 (M080512007-LCS)						Source:					
Acetic Acid	1.8	0.07	0.04	mg/L	2		90	70-130		20	
Lactic Acid and HIBA	2.2	0.1	0.07	mg/L	2		110	70-130		20	
Propionic Acid	1.8	0.07	0.05	mg/L	2		90	70-130		20	
Blank Analyzed: 05/08/2008 (M080512007-MB)						Source:					
Acetic Acid	ND	0.07	0.04	mg/L				70-130		0	*U*
Lactic Acid and HIBA	ND	0.1	0.07	mg/L				70-130		0	*U*
Propionic Acid	ND	0.07	0.05	mg/L				70-130		0	*U*

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BOE-C6-0188776

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Attention: Michael Rendina

Project ID: Boeing C-6 Torrance (02/26/08)
1155.006
Report Number: IRD1936

Sampled: 04/22/08
Received: 04/22/08

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: 080424GC8A Extracted: 04/24/08											
LCS Dup Analyzed: 04/24/2008 (080424GC8ABD)					**Source: 080424GC8ABS**						
Methane	625	1.0	0.39	ug/L	654	0	96	70-130	2	30	
Ethane	1161	1.0	0.50	ug/L	1227	0	95	70-130	1	30	
Ethylene	1032	1.0	0.33	ug/L	1145	0	90	70-130	0	30	
LCS Analyzed: 04/24/2008 (080424GC8ABS)					**Source:**						
Methane	635	1.0	0.39	ug/L	654	0	97	70-130			
Ethane	1171	1.0	0.50	ug/L	1227	0	95	70-130			
Ethylene	1034	1.0	0.33	ug/L	1145	0	90	70-130			
Blank Analyzed: 04/24/2008 (080424GC8ALB)					**Source:**						
Methane	ND	1.0	0.39	ug/L				-			
Ethane	ND	1.0	0.50	ug/L				-			
Ethylene	ND	1.0	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.

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: IRD1936

Sampled: 04/22/08
Received: 04/22/08

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.
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).
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).
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

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-C6-0188777

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: IRD1936	Sampled: 04/22/08 Received: 04/22/08

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: IRD1936-01, IRD1936-02, IRD1936-03, IRD1936-04, IRD1936-05

Microseeps-SUB

220 William Pitt Way - Pittsburgh, PA 15238

Method Performed: AM23G

Samples: IRD1936-01, IRD1936-02, IRD1936-03, IRD1936-04, IRD1936-05

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.

IRD1936

Boeing CoC No. AVO20080422A

Sheet 1 of 1

CHAIN OF CUSTODY RECORD

AVOCET ENVIRONMENTAL, INC.

16 Technology Drive Suite 154
Irvine California 92618-2327
TEL (949) 296-0977
FAX (949) 296-0978

Project Information

Site Name	BORE Former C-6 Facility
Site Address	Los Angeles, CA
Project No	1155.006
Project Manager	Mike Rendina
Sampled By	Brian Barsumian
Turn-Around-Time	NORMAL TAT

Analyses

Sample Identification	Sample Date	Sample Time	Matrix	No. of Cntrs.	Lab I.D. Number	VOCs EPA 8260B	TOC EPA 9060 Modified	Volatile Fatty Acids IC Method 8M23G (Microseeps)	Dissolved Hydrocarbon Gases (DHGs) Methane, Ethane, Ethene RSK 175	Alkalinity EPA 310.1	Anions (NO3, NO2, Cl, SO4) EPA 300.0	
AW0075UB_WG20080422_01	4/22/08	1323	Water	10		X	X	X	X	X	X	* pg AVOCET correction made from 4/23/08
AW0076UB_WG20080422_01		1247	Water	10		X	X	X	X	X	X	
AW0077UB_WG20080422_01		0838	Water	10		X	X	X	X	X	X	
EWB002_WG20080422_01		1049	Water	10		X	X	X	X	X	X	
AW0073C_WG20080422_01		0954	Water	10		X	X	X	X	X	X	
~~AW0073C_WG2008 03~~			Water			X						
TB_AVO20080422_01		—	Water	3		X						
~~EB_AVO2008 01~~			Water			X						
AW0075UB_WG20080422_02		1323	H_2O	3		X	X	X	X	X	X	

4/23/08

AB 4/23/08 4/22/08

Relinquished by		Company	Received by	
Printed Name: Brian Barsumian	Date: 4/22/08	Avocet Environmental, Inc.	Printed Name: Angel Perez	Date: 4/22
Signature: Brian Barsumian	Time: 1700		Signature:	Time: 1700
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		Bill To: Philip Miller, P.E. AVOCET ENVIRONMENTAL, INC. 16 Technology Dive, Suite 154 Irvine, CA 92618 2327	*Please bill to Avocet. Please report electronically in accordance with Boeing standards. If any questions, please call Phil Miller @ (949) 296 0977 Ext.102*
Temperature °C 5.7/23 °F Lab N			
COC Seal (Y/N/NA) Intact (Y/N)			

X:\Forms\Field Forms\Chain of Custody.xls

BOE-C6-0188778

AirTECHNOLOGY Laboratories, Inc.

May 5, 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: IRD1936
Lab Number: A8042301-01/05

Enclosed are results for sample(s) received 4/23/08 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

IRD1936

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 1° Ice: (Y) / N

Analysis	Units	Due	Expires	Comments
				A8042301-
01 **Sample ID: IRD1936-01**	**Water**		**Sampled: 04/22/08 13:23**	
Diss. Gasses-OUT	mg/l	05/02/08	05/06/08 13:23	sub=ATL;RL=1-C2H4,C2H6,CH4,Elmnt EDD,Boeing,Jflags
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)	
02 **Sample ID: IRD1936-02**	**Water**		**Sampled: 04/22/08 12:47**	
Diss. Gasses-OUT	mg/l	05/02/08	05/06/08 12:47	sub=ATL;RL=1-C2H4,C2H6,CH4,Elmnt EDD,Boeing,Jflags
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)	
03 **Sample ID: IRD1936-03**	**Water**		**Sampled: 04/22/08 08:38**	
Diss. Gasses-OUT	mg/l	05/02/08	05/06/08 08:38	sub=ATL;RL=1-C2H4,C2H6,CH4,Elmnt EDD,Boeing,Jflags
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)	
04 **Sample ID: IRD1936-04**	**Water**		**Sampled: 04/22/08 10:49**	
Diss. Gasses-OUT	mg/l	05/02/08	05/06/08 10:49	sub=ATL;RL=1-C2H4,C2H6,CH4,Elmnt EDD,Boeing,Jflags
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)	
05 **Sample ID: IRD1936-05**	**Water**		**Sampled: 04/22/08 09:54**	
Diss. Gasses-OUT	mg/l	05/02/08	05/06/08 09:54	sub=ATL;RL=1-C2H4,C2H6,CH4,Elmnt EDD,Boeing,Jflags
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: 4/23/08 Date/Time — Received By: 4/23/08 Date/Time
Released By: 4/23/08 1420 Date/Time — Received By: 4.23.08 14:22 Date/Time

BOE-C6-0188779

Client: TestAmerica
Attn: Trupti Mistry

Client's Project: IRD1936
Date Received: 4/23/2008
Matrix: Water
Units: ug/L

Dissolved Gases by EPA Procedure RSKSOP-175

Lab No.:			A8042301-01		A8042301-02		A8042301-03		A8042301-04		A8042301-05	
Client Sample I.D.:			IRD1936-01		IRD1936-02		IRD1936-03		IRD1936-04		IRD1936-05	
Date Sampled:			4/22/2008		4/22/2008		4/22/2008		4/22/2008		4/22/2008	
Date Analyzed:			4/24/2008		4/24/2008		4/24/2008		4/24/2008		4/24/2008	
Analyst Initials:			DT		DT		DT		DT		DT	
Data File:			24apr008		24apr009		24apr010		24apr011		24apr012	
QC Batch:			080424GC8A1		080424GC8A1		080424GC8A1		080424GC8A1		080424GC8A1	
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	17	1.0	540	1.0	8,000	1.0	9,400	1.0	110
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	17	1.0	57	1.0	96	1.0	18	1.0	2.9

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

Reviewed/Approved By: Mark J. Johnson
Operations Manager

Date: 4-26-08

The cover letter is an integral part of this analytical report

QC Batch No.: 080424GC8A1
Matrix: Water
Units: ug/L

QC for Dissolved Gases by EPA Procedure RSKSOP-175

Lab No.:			Method Blank		LCS		LCSD			
Date Analyzed:			04/24/08		04/24/08		04/24/08			
Analyst Initials:			DT		DT		DT			
Datafile:			24apr006		24apr003		24apr004			
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	ND	97	70-130%	96	70-130%	1.5	<30
Ethane	1.0	0.50	1.0	ND	95	70-130%	95	70-130%	0.9	<30
Ethylene	1.0	0.33	1.0	ND	90	70-130%	90	70-130%	0.2	<30

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

Reviewed/Approved By: Mark J. Johnson
Operations Manager

Date: 4-26-08

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

BOE-C6-0188780

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 10
Lab Proj #: P0804340
Report Date: 05/12/08
Client Proj Name: IRD1936
Client Proj #: IRD1936

Laboratory Results

Total pages in data package: 51

Lab Sample #	Client Sample ID
P0804340-01	IRD1936-01
P0804340-02	IRD1936-02
P0804340-03	IRD1936-03
P0804340-04	IRD1936-04
P0804340-05	IRD1936-05

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 **Date:** 5-12-08

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

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

Page: Page 2 of 10
Lab Proj #: P0804340
Report Date: 05/12/08
Client Proj Name: IRD1936
Client Proj #: IRD1936

Case Narrative: The percent recoveries for the MS/MSD analyses could only be calculated for the hexanoic acids because of the sample matrix. The percent recovery for hexanoic acid for the MS was 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

BOE-C6-0188781

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

Page: Page 3 of 10
Lab Proj #: P0804340
Report Date: 05/12/08
Client Proj Name: IRD1936
Client Proj #: IRD1936

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
IRD1936-01	Water	P0804340-01	22 Apr. 08 13:23	24 Apr. 08 11:34

Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	By
SemiVolatiles							
N Acetic Acid		430.00	7.00	mg/L	AM23G	5/9/08	jb
N Butyric Acid		47.00	0.7	mg/L	AM23G	5/9/08	jb
N Hexanoic Acid	M	0.69	0.1	mg/L	AM23G	5/7/08	jb
N i-Hexanoic Acid		0.44	0.1	mg/L	AM23G	5/7/08	jb
N i-Pentanoic Acid		8.20	0.7	mg/L	AM23G	5/9/08	jb
N Lactic Acid and HIBA	U	< 10.00	10.00	mg/L	AM23G	5/9/08	jb
N Pentanoic Acid		4.00	0.7	mg/L	AM23G	5/9/08	jb
N Propionic Acid		120.00	7.00	mg/L	AM23G	5/9/08	jb
N Pyruvic Acid		7.80	0.7	mg/L	AM23G	5/9/08	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 4 of 10
Lab Proj #: P0804340
Report Date: 05/12/08
Client Proj Name: IRD1936
Client Proj #: IRD1936

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
IRD1936-02	Water	P0804340-02	22 Apr. 08 12:47	24 Apr. 08 11:34

Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	By
SemiVolatiles							
N Acetic Acid		550.00	7.00	mg/L	AM23G	5/9/08	jb
N Butyric Acid		19.00	0.7	mg/L	AM23G	5/9/08	jb
N Hexanoic Acid	M	0.90	0.1	mg/L	AM23G	5/7/08	jb
N i-Hexanoic Acid		0.49	0.1	mg/L	AM23G	5/7/08	jb
N i-Pentanoic Acid		5.20	0.7	mg/L	AM23G	5/9/08	jb
N Lactic Acid and HIBA	U	< 10.00	10.00	mg/L	AM23G	5/9/08	jb
N Pentanoic Acid	M	3.70	0.07	mg/L	AM23G	5/7/08	jb
N Propionic Acid		140.00	7.00	mg/L	AM23G	5/9/08	jb
N Pyruvic Acid		3.80	0.7	mg/L	AM23G	5/9/08	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-C6-0188782

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

Page: Page 5 of 10
Lab Proj #: P0804340
Report Date: 05/12/08
Client Proj Name: IRD1936
Client Proj #: IRD1936

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
IRD1936-03	Water	P0804340-03	22 Apr. 08 8:38	24 Apr. 08 11:34

Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	By
SemiVolatiles							
N Acetic Acid		220.00	7.00	mg/L	AM23G	5/9/08	jb
N Butyric Acid		19.00	0.7	mg/L	AM23G	5/9/08	jb
N Hexanoic Acid	M	1.70	0.1	mg/L	AM23G	5/7/08	jb
N i-Hexanoic Acid	U	< 0.10	0.1	mg/L	AM23G	5/7/08	jb
N i-Pentanoic Acid		1.40	0.7	mg/L	AM23G	5/9/08	jb
N Lactic Acid and HIBA	U	< 10.00	10.00	mg/L	AM23G	5/9/08	jb
N Pentanoic Acid	M	2.90	0.07	mg/L	AM23G	5/7/08	jb
N Propionic Acid		38.00	7.00	mg/L	AM23G	5/9/08	jb
N Pyruvic Acid		1.60	0.7	mg/L	AM23G	5/9/08	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 6 of 10
Lab Proj #: P0804340
Report Date: 05/12/08
Client Proj Name: IRD1936
Client Proj #: IRD1936

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
IRD1936-04	Water	P0804340-04	22 Apr. 08 10:49	24 Apr. 08 11:34

Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	By
SemiVolatiles							
N Acetic Acid		380.00	7.00	mg/L	AM23G	5/9/08	jb
N Butyric Acid		89.00	0.7	mg/L	AM23G	5/9/08	jb
N Hexanoic Acid		13.00	1	mg/L	AM23G	5/9/08	jb
N i-Hexanoic Acid		0.80	0.1	mg/L	AM23G	5/7/08	jb
N i-Pentanoic Acid		11.00	0.7	mg/L	AM23G	5/9/08	jb
N Lactic Acid and HIBA	U	< 10.00	10.00	mg/L	AM23G	5/9/08	jb
N Pentanoic Acid		14.00	0.7	mg/L	AM23G	5/9/08	jb
N Propionic Acid		140.00	7.00	mg/L	AM23G	5/9/08	jb
N Pyruvic Acid		12.00	0.7	mg/L	AM23G	5/9/08	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-C6-0188783

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

Page: Page 7 of 10
Lab Proj #: P0804340
Report Date: 05/12/08
Client Proj Name: IRD1936
Client Proj #: IRD1936

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
IRD1936-05	Water	P0804340-05	22 Apr. 08 9:54	24 Apr. 08 11:34

Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	By
SemiVolatiles							
N Acetic Acid	M	5.40	0.07	mg/L	AM23G	5/8/08	jb
N Butyric Acid	UM	< 0.07	0.07	mg/L	AM23G	5/8/08	jb
N Hexanoic Acid	UM	< 0.10	0.10	mg/L	AM23G	5/8/08	jb
N i-Hexanoic Acid	U	< 0.10	0.10	mg/L	AM23G	5/8/08	jb
N i-Pentanoic Acid	UM	< 0.07	0.07	mg/L	AM23G	5/8/08	jb
N Lactic Acid and HIBA	UM	< 0.10	0.10	mg/L	AM23G	5/8/08	jb
N Pentanoic Acid	UM	< 0.07	0.07	mg/L	AM23G	5/8/08	jb
N Propionic Acid	UM	< 0.07	0.07	mg/L	AM23G	5/8/08	jb
N Pyruvic Acid	UM	< 0.07	0.07	mg/L	AM23G	5/8/08	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 8 of 10
Lab Proj #: P0804340
Report Date: 05/12/08
Client Proj Name: IRD1936
Client Proj #: IRD1936

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

M080512003-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
i-Hexanoic Acid	< 0.10	mg/L		0.10		- NA
Hexanoic Acid	< 0.10	mg/L		0.10		- NA

M080512003-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	1.70	mg/L	2.00	85.00	70 - 130
Lactic Acid and HIBA	2.00	mg/L	2.00	100.00	70 - 130
Pyruvic Acid	1.80	mg/L	2.00	90.00	70 - 130
i-Pentanoic Acid	1.70	mg/L	2.00	85.00	70 - 130
Pentanoic Acid	1.70	mg/L	2.00	85.00	70 - 130
i-Hexanoic Acid	1.50	mg/L	2.00	75.00	70 - 130
Hexanoic Acid	1.70	mg/L	2.00	85.00	70 - 130

P0804340-01A-MS

	Result		TrueSpikeConc.	%Recovery	Ctl Limits
i-Hexanoic Acid	2.10	mg/L	2.00	83.00	70 - 130
Hexanoic Acid	2.00	mg/L	2.00	66.00	70 - 130

P0804340-01A-MSD

	Result		TrueSpikeConc.	%Recovery	Ctl Limits	RPD	RPD Ctl Limits
i-Hexanoic Acid	2.00	mg/L	2.00	78.00	70 - 130	4.88	0 - 30
Hexanoic Acid	2.10	mg/L	2.00	71.00	70 - 130	4.88	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-C6-0188784

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

Page: Page 9 of 10
Lab Proj #: P0804340
Report Date: 05/12/08
Client Proj Name: IRD1936
Client Proj #: IRD1936

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

M080512006-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
Hexanoic Acid	< 0.10	mg/L		0.10		- NA

M080512006-LCS

	Result		TrueSpikeConc.	%Recovery	Ctl Limits
Acetic Acid	1.80	mg/L	2.00	90.00	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	1.80	mg/L	2.00	90.00	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	1.70	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

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

Page: Page 10 of 10
Lab Proj #: P0804340
Report Date: 05/12/08
Client Proj Name: IRD1936
Client Proj #: IRD1936

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

M080512007-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

M080512007-LCS

	Result		TrueSpikeConc.	%Recovery	Ctl Limits
Acetic Acid	1.80	mg/L	2.00	90.00	70 - 130
Propionic 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-C6-0188785

Chain of Custody Documents

SUBCONTRACT ORDER

TestAmerica irvine

IRD1936

P0804340

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: IRD1936-01	**Water**		Sampled: 04/22/08 13:23	
VFA-Microseeps OUT	mg/l	05/06/08	04/29/08 13:23	Microseeps; IC; J&Bflags;TestAmerica excel EDD
Containers Supplied:				
40 mL Amber VOA Vial (H)	40 mL Amber VOA Vial (I)			
Sample ID: IRD1936-02	**Water**		Sampled: 04/22/08 12:47	
VFA-Microseeps OUT	mg/l	05/06/08	04/29/08 12:47	Microseeps; IC; J&Bflags;TestAmerica excel EDD
Containers Supplied:				
40 mL Amber VOA Vial (H)	40 mL Amber VOA Vial (I)			
Sample ID: IRD1936-03	**Water**		Sampled: 04/22/08 08:38	
VFA-Microseeps OUT	mg/l	05/06/08	04/29/08 08:38	Microseeps; IC; J&Bflags;TestAmerica excel EDD
Containers Supplied:				
40 mL Amber VOA Vial (H)	40 mL Amber VOA Vial (I)			
Sample ID: IRD1936-04	**Water**		Sampled: 04/22/08 10:49	
VFA-Microseeps OUT	mg/l	05/06/08	04/29/08 10:49	Microseeps; IC; J&Bflags;TestAmerica excel EDD
Containers Supplied:				
40 mL Amber VOA Vial (H)	40 mL Amber VOA Vial (I)			
Sample ID: IRD1936-05	**Water**		Sampled: 04/22/08 09:54	
VFA-Microseeps OUT	mg/l	05/06/08	04/29/08 09:54	Microseeps; IC; J&Bflags;TestAmerica excel EDD
Containers Supplied:				
40 mL Amber VOA Vial (H)	40 mL Amber VOA Vial (I)			

Released By	Date/Time	Received By	Date/Time
	4/23/08 17:00	FedEx	4/23/08 17:00
Released By	Date/Time	Received By	Date/Time
			4/24

Page 1 of 1

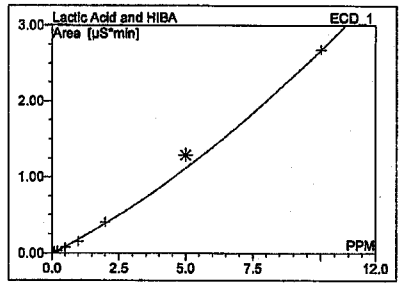
BOE-C6-0188786

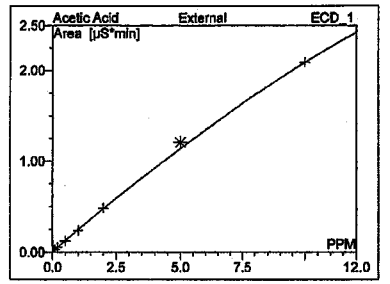
Volatile Fatty Acid Data

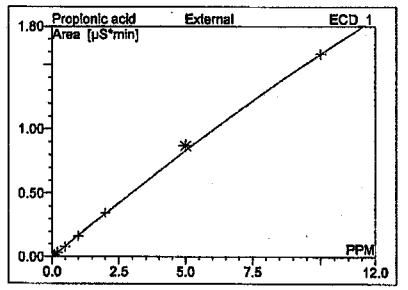
Operator:jblack Timebase:DX-500 Sequence:LLVFA 120507

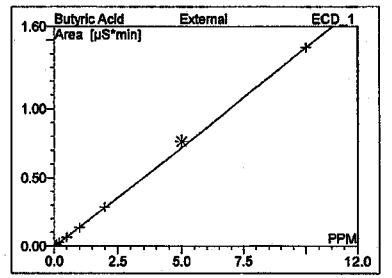
Calibration Batch Report

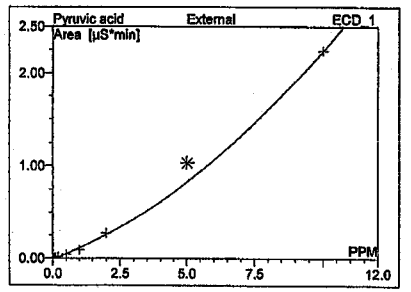
Sequence:	LLVFA 120507	Inj. Vol.:	100
Program:	RWM 07071GAA	Operator:	SEMIVOL13
Inj. Date/Time:	12/05/07	Runtime:	30.00

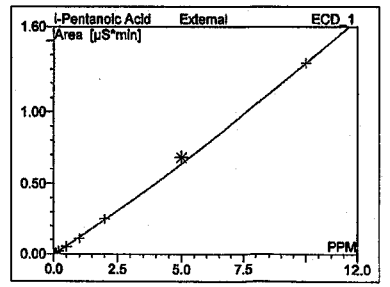










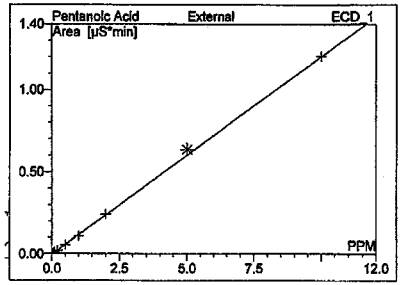


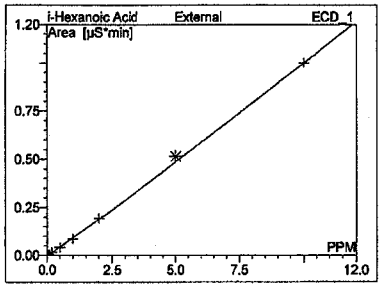
CATION_report/Calibration(Batch)

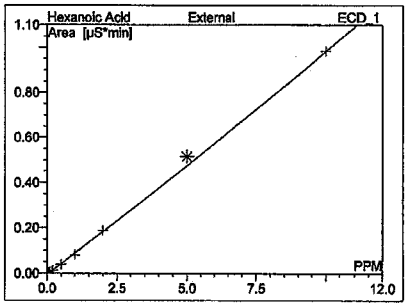
PeakNet 6 (r) Dionex 2001
Version 6.60 Build 1428

BOE-C6-0188787

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







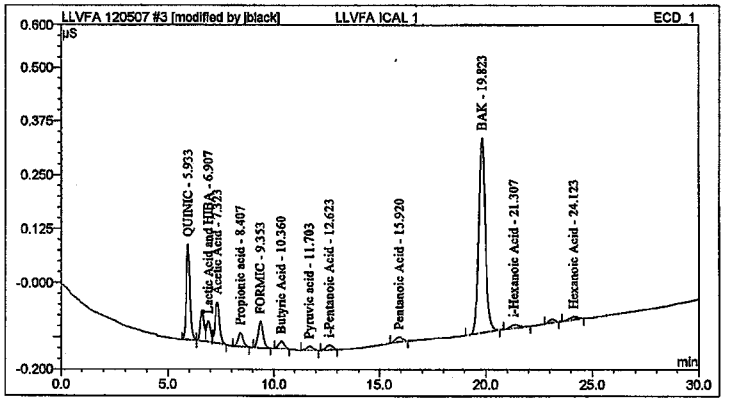
Peak Name	Cal.Mode	Cal.Type	Slope	#Points	Rel.Std.Dev.	R-Square
					%	%
QUINIC	Total	QOff	0.000	7	n.a.	n.a.
Lactic Acid and HIBA	Total	QOff	0.181	7	4.070	99.973
Acetic Acid	Total	QOff	0.244	7	1.339	99.996
Propionic acid	Total	QOff	0.176	7	1.877	99.993
FORMIC	Total	QOff	0.000	7	n.a.	n.a.
Butyric Acid	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



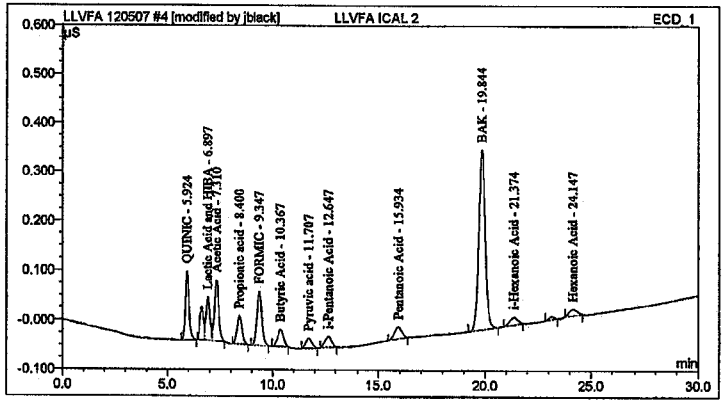
BOE-C6-0188788

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

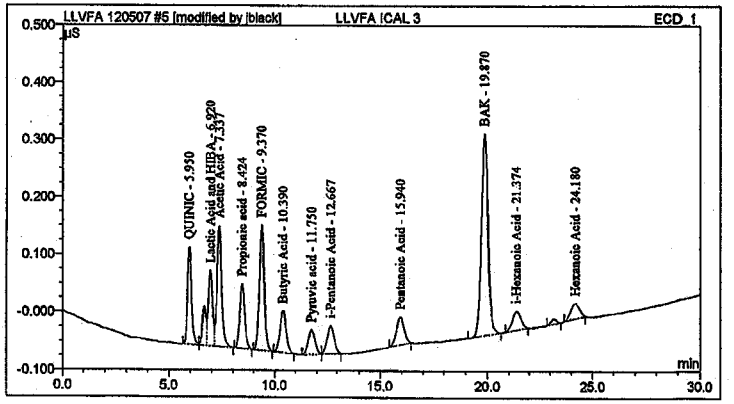


MICROSEEPS

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



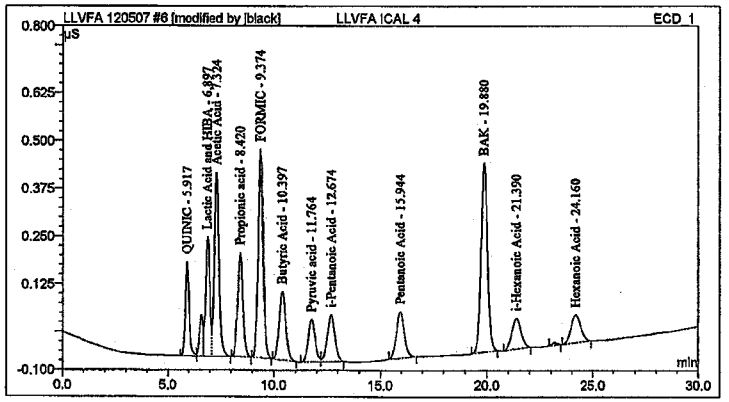
BOE-C6-0188789

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

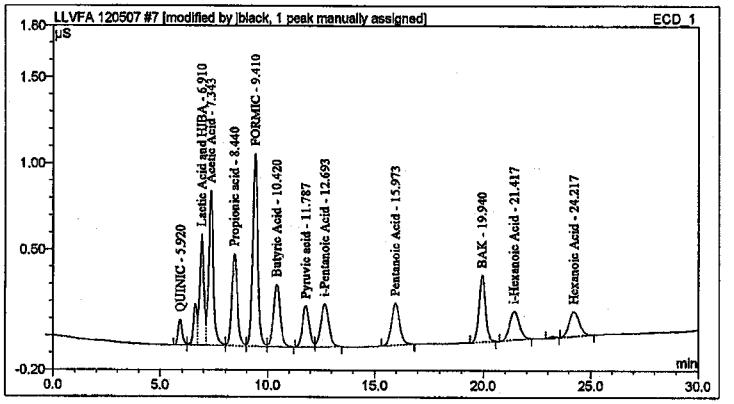


MICROSEEPS

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



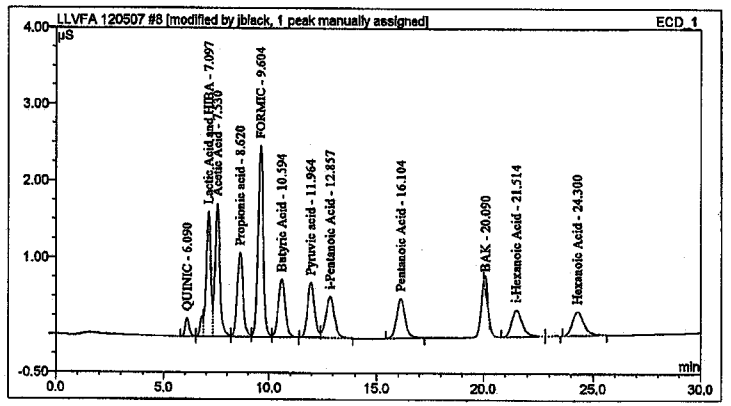
BOE-C6-0188790

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

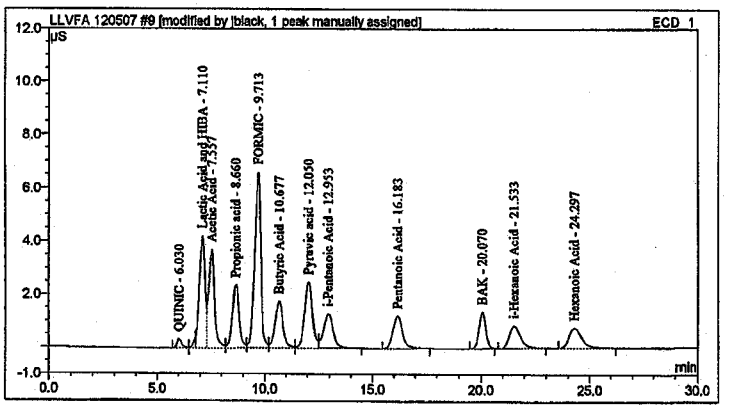


MICROSEEPS

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-C6-0188791

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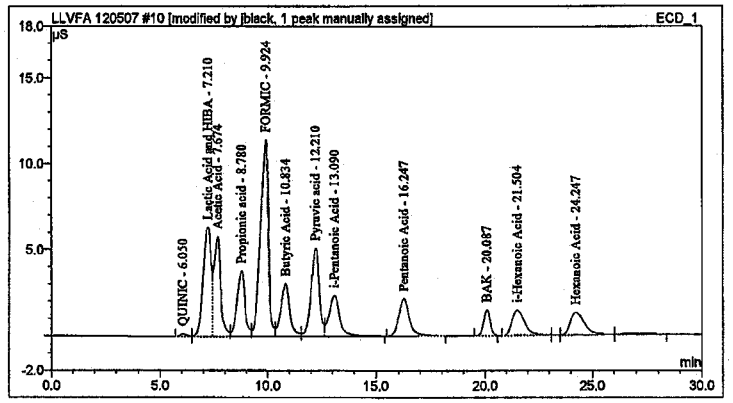
Sample Analysis Report

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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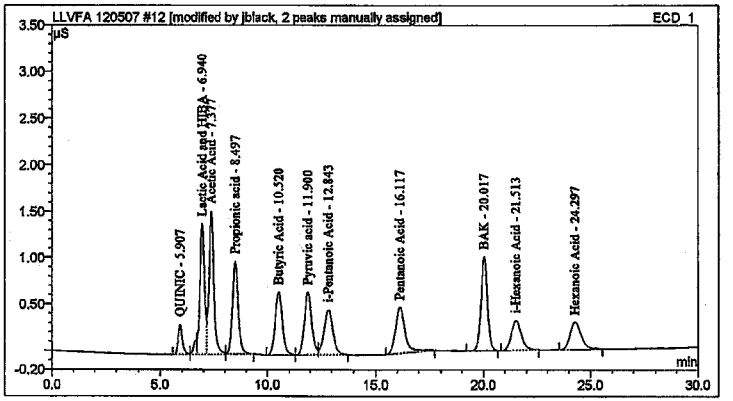
Sample Analysis Report

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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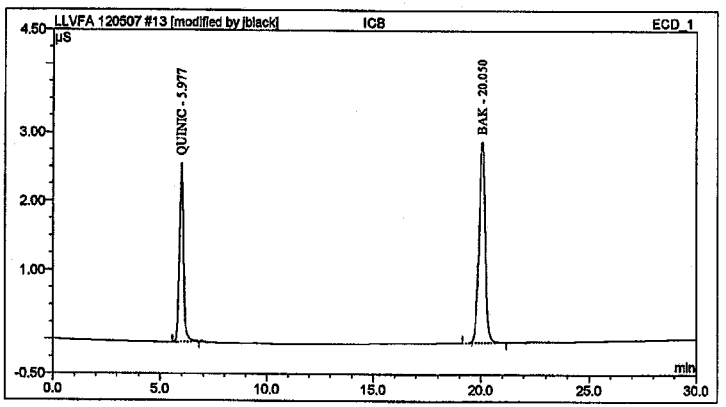
Sample Analysis Report

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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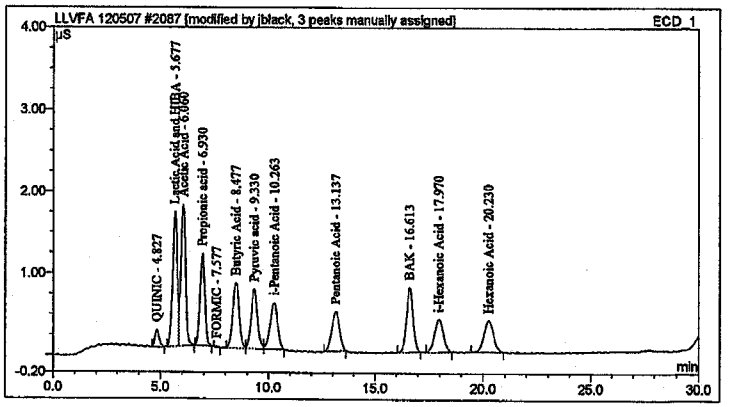
Sample Analysis Report

Sample Name:	CCV	**Sequence No:**	2087
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:	5/7/2008 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	4.827	0.046	0.210	BMB^	n.a.
2	Lactic Acid and HIBA	5.677	0.416	1.647	BM	2.1289
3	Acetic Acid	6.060	0.423	1.726	MB	1.7559
4	Propionic acid	6.930	0.303	1.119	BMB	1.7794
5	FORMIC	7.577	0.003	0.018	BMB*	n.a.
6	Butyric Acid	8.477	0.266	0.794	BM ^	1.8758
7	Pyruvic acid	9.330	0.251	0.724	M ^	1.9520
8	i-Pentanoic Acid	10.263	0.225	0.559	MB	1.8446
9	Pentanoic Acid	13.137	0.216	0.478	BMB	1.8194
10	BAK	16.613	0.283	0.788	BMB	n.a.
11	i-Hexanoic Acid	17.970	0.188	0.395	BMB	1.9905
12	Hexanoic Acid	20.230	0.188	0.378	BMB*	2.0523



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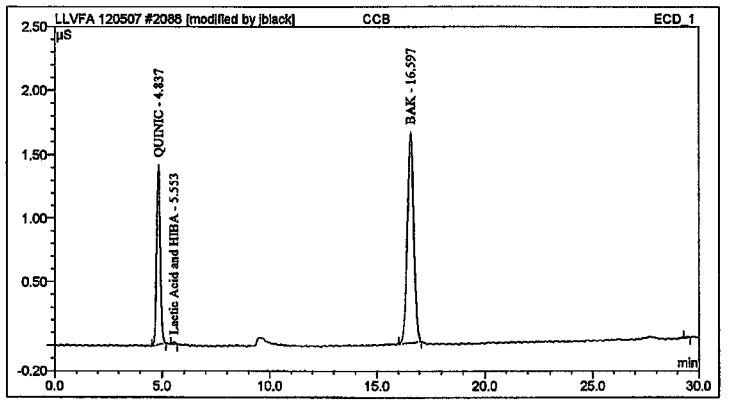
Sample Analysis Report

Sample Name:	CCB	**Sequence No:**	2088
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:	5/7/2008 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	QUINIC	4.837	0.266	1.415	BMB	n.a.
2	Lactic Acid and HIBA	5.553	0.003	0.017	BMB	0.0654
3	BAK	16.597	0.589	1.654	BMB	n.a.



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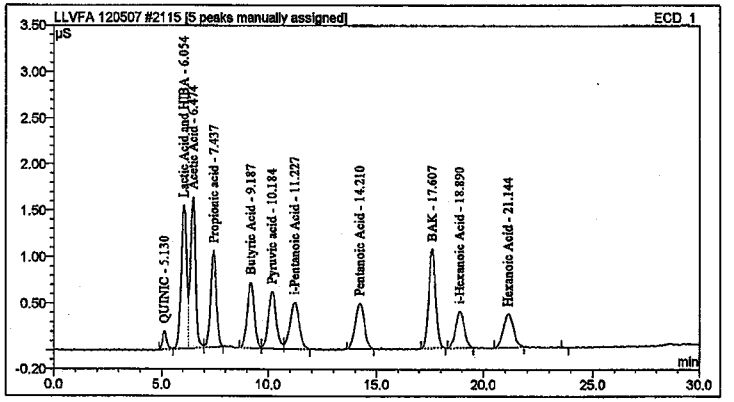
Sample Analysis Report

Sample Name:	CCV	**Sequence No:**	2115
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:	5/8/2008 12:01 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	0.044	0.195	Ru	n.a.
2	Lactic Acid and HIBA	6.054	0.439	1.534	BM ^	2.2317
3	Acetic Acid	6.474	0.448	1.620	M	1.8647
4	Propionic acid	7.437	0.326	1.031	MB	1.9189
5	Butyric Acid	9.187	0.274	0.704	BM ^	1.9322
6	Pyruvic acid	10.184	0.261	0.611	M ^	2.0131
7	i-Pentanoic Acid	11.227	0.240	0.499	MB	1.9688
8	Pentanoic Acid	14.210	0.232	0.484	BMB	1.9542
9	BAK	17.607	0.401	1.062	BMB	n.a.
10	i-Hexanoic Acid	18.890	0.185	0.387	BMB^	1.9598
11	Hexanoic Acid	21.144	0.185	0.356	BMB^	2.0263



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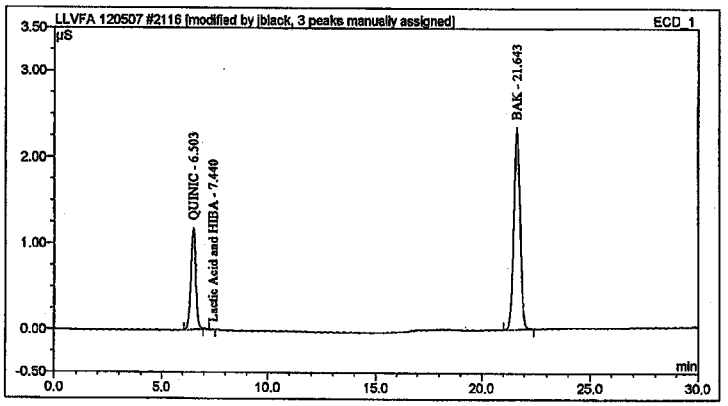
Sample Analysis Report

Sample Name:	CCB	**Sequence No:**	2116
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:	5/8/2008 12:43 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	6.503	0.319	1.187	BMB^	n.a.
2	Lactic Acid and HIBA	7.440	0.001	0.007	BMB^	0.0543
3	BAK	21.643	0.814	2.346	BMB^	n.a.

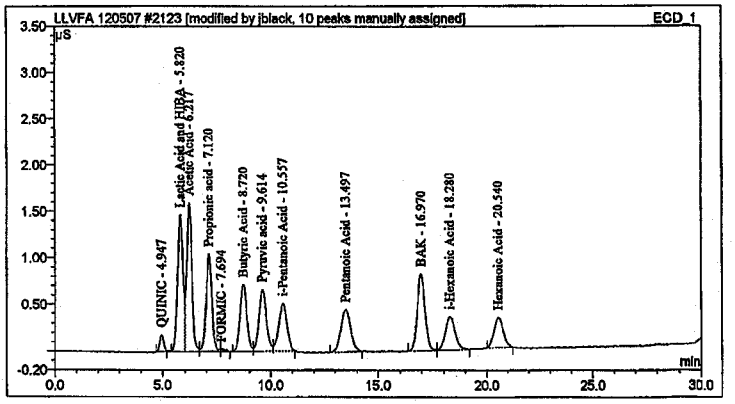


MICROSEEPS

Sample Analysis Report

Sample Name:	CCV	**Sequence No:**	2123
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:	5/9/2008 10:55 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	4.947	0.037	0.175	BMB^	n.a.
2	Lactic Acid and HIBA	5.820	0.403	1.465	BM *^	2.0655
3	Acetic Acid	6.217	0.435	1.592	M *^	1.8095
4	Propionic acid	7.120	0.329	1.044	M *	1.9314
5	FORMIC	7.694	0.007	0.023	MB*^	n.a.
6	Butyric Acid	8.720	0.265	0.709	BM ^	1.8663
7	Pyruvic acid	9.614	0.260	0.658	M ^	2.0042
8	i-Pentanoic Acid	10.557	0.228	0.504	MB^	1.8684
9	Pentanoic Acid	13.497	0.231	0.451	BMB^	1.9471
10	BAK	16.970	0.329	0.819	BM	n.a.
11	i-Hexanoic Acid	18.280	0.184	0.350	MB^	1.9480
12	Hexanoic Acid	20.540	0.168	0.319	BMB^	1.8397



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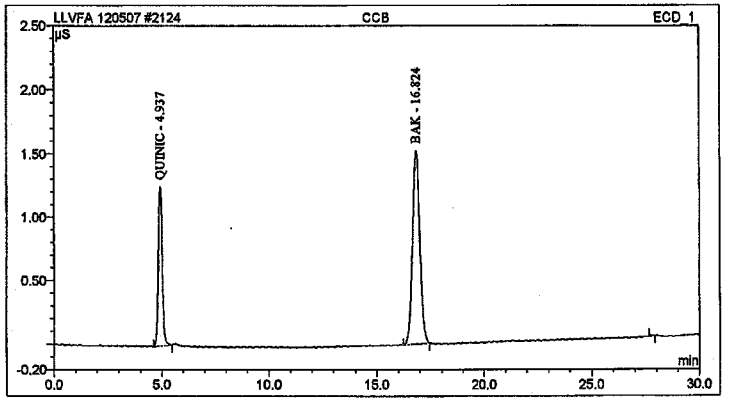
Sample Analysis Report

Sample Name:	CCB	**Sequence No:**	2124
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:	5/9/2008 11:36 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	0.264	1.256	BMB	n.a.
2	BAK	16.824	0.606	1.518	BMB	n.a.

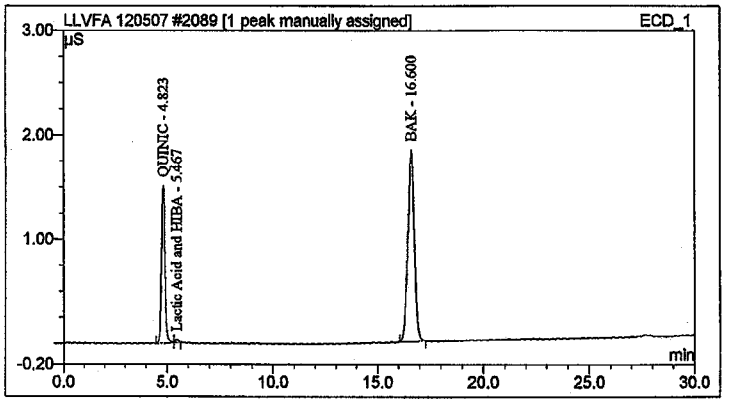


MICROSEEPS

Sample Analysis Report

Sample Name:	M080506013-MB	**Sequence No:**	2089
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:	5/7/2008 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	4.823	0.289	1.519	BM ^	n.a.
2	Lactic Acid and HIBA	5.467	0.005	0.026	MB	0.0760
3	BAK	16.600	0.667	1.839	BMB	n.a.



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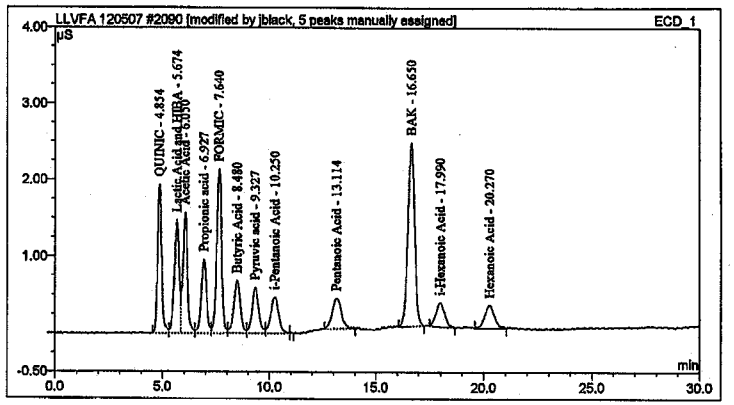
Sample Analysis Report

Sample Name:	M080506013-LCS	**Sequence No:**	2090
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:	5/7/2008 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	4.854	0.421	1.935	BM ^	n.a.
2	Lactic Acid and HIBA	5.674	0.383	1.472	M	1.9732
3	Acetic Acid	6.050	0.391	1.568	M ^	1.6201
4	Propionic acid	6.927	0.279	0.962	M ^	1.6394
5	FORMIC	7.640	0.575	2.138	M ^	n.a.
6	Butyric Acid	8.480	0.242	0.687	M	1.7073
7	Pyruvic acid	9.327	0.221	0.598	M ^	1.7532
8	i-Pentanoic Acid	10.250	0.204	0.469	M	1.6797
10	Pentanoic Acid	13.114	0.202	0.398	BMB*	1.7075
11	BAK	16.650	0.877	2.393	BMB*	n.a.
12	i-Hexanoic Acid	17.990	0.145	0.312	BMB*	1.5483
13	Hexanoic Acid	20.270	0.157	0.298	BMB*	1.7291



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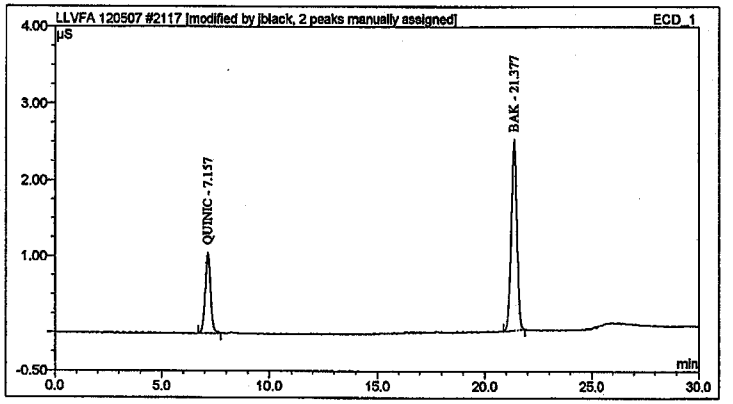
Sample Analysis Report

Sample Name:	MB 050808	**Sequence No:**	2117
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:	5/8/2008 2:05 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	7.157	0.316	1.057	BMB^	n.a.
2	BAK	21.377	0.779	2.502	BMB^	n.a.



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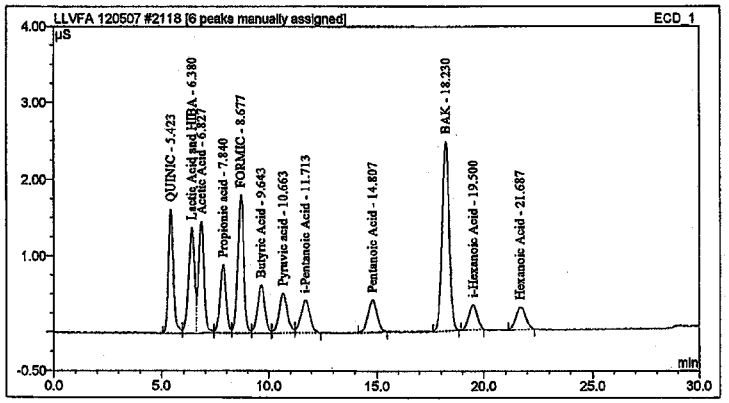
Sample Analysis Report

Sample Name:	LCS 050808	**Sequence No:**	2118
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:	5/8/2008 3:27 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	5.423	0.425	1.623	BM	n.a.
2	Lactic Acid and HIBA	6.380	0.429	1.384	M ^	2.1850
3	Acetic Acid	6.827	0.431	1.455	M	1.7935
4	Propionic acid	7.840	0.303	0.893	M	1.7777
5	FORMIC	8.677	0.581	1.808	M ^	n.a.
6	Butyric Acid	9.643	0.253	0.624	M ^	1.7860
7	Pyruvic acid	10.663	0.234	0.520	M	1.8402
8	i-Pentanoic Acid	11.713	0.213	0.424	MB	1.7537
9	Pentanoic Acid	14.807	0.205	0.422	BMB^	1.7318
10	BAK	18.230	0.943	2.473	BMB	n.a.
11	i-Hexanoic Acid	19.500	0.150	0.324	BMB^	1.6018
12	Hexanoic Acid	21.687	0.153	0.295	BMB^	1.6797

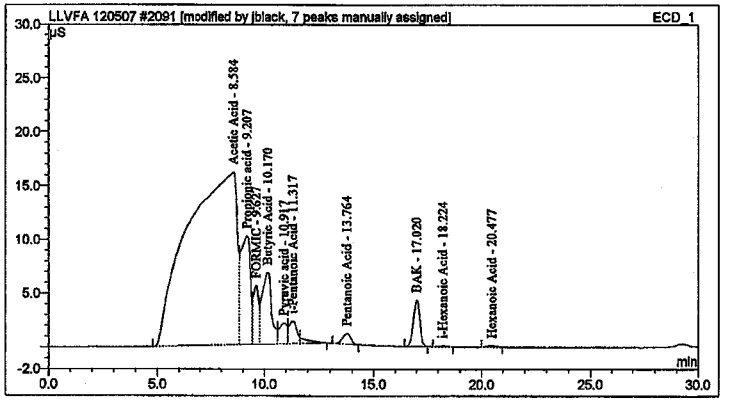


MICROSEEPS

Sample Analysis Report

Sample Name:	P0804340-01A	**Sequence No:**	2091
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:	5/7/2008 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	Acetic Acid	8.584	42.849	16.025	BM *^	n.a.
2	Propionic acid	9.207	5.190	10.072	M *^	n.a.
3	FORMIC	9.627	1.606	5.441	M *^	n.a.
4	Butyric Acid	10.170	3.482	6.653	M *^	23.8426
5	Pyruvic acid	10.917	0.807	1.899	M *^	4.8890
6	i-Pentanoic Acid	11.317	0.858	2.052	M *^	6.6037
8	Pentanoic Acid	13.764	0.441	0.997	BMB^	3.6826
9	BAK	17.020	1.499	4.285	BMB	n.a.
10	i-Hexanoic Acid	18.224	0.038	0.091	BMB	0.4399
11	Hexanoic Acid	20.477	0.059	0.132	BMB	0.6908



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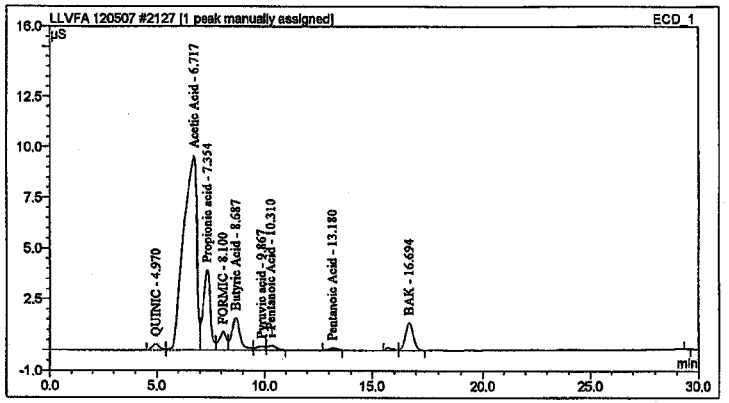
MICROSEEPS

Sample Analysis Report

Sample Name:	P0804340-01A 10X	**Sequence No:**	2127
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:	5/9/2008 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	4.970	0.116	0.289	BM	n.a.
2	Acetic Acid	6.717	6.608	9.548	M	n.a.
3	Propionic acid	7.354	1.564	3.915	M	9.8514
4	FORMIC	8.100	0.349	0.881	M	n.a.
5	Butyric Acid	8.687	0.679	1.556	M	4.7285
6	Pyruvic acid	9.867	0.084	0.184	M ^	0.7766
7	i-Pentanoic Acid	10.310	0.095	0.208	MB	0.8157
8	Pentanoic Acid	13.180	0.044	0.099	BMB	0.4011
10	BAK	16.694	0.556	1.349	MB	n.a.

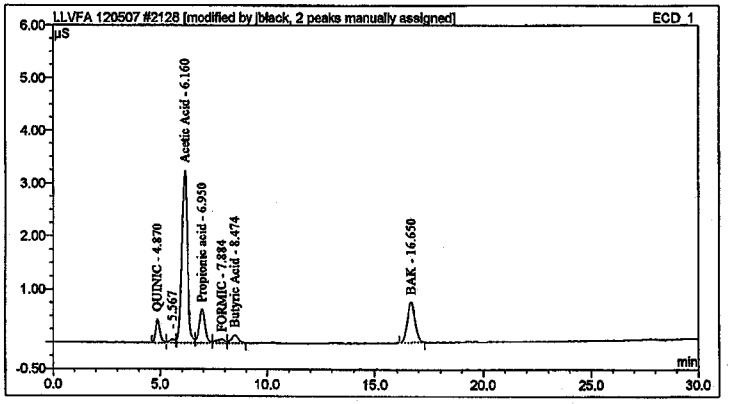


MICROSEEPS

Sample Analysis Report

Sample Name:	P0804340-01A 100X	**Sequence No:**	2128
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:	5/9/2008 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	4.870	0.110	0.454	BM	n.a.
3	Acetic Acid	6.160	0.979	3.255	M *	4.2512
4	Propionic acid	6.950	0.199	0.638	M *	1.1732
5	FORMIC	7.884	0.034	0.075	M ^	n.a.
6	Butyric Acid	8.474	0.058	0.155	MB	0.4333
7	BAK	16.650	0.311	0.765	BMB	n.a.



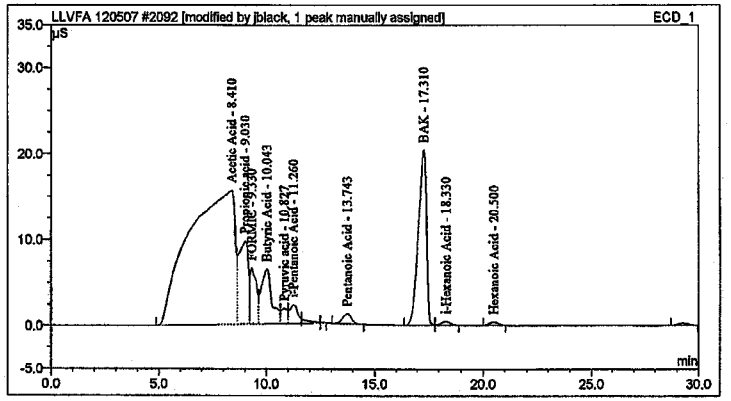
BOE-C6-0188799

MICROSEEPS

Sample Analysis Report

Sample Name:	P0804340-01A-MS	**Sequence No:**	2092
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:	5/7/2008 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	Acetic Acid	8.410	38.213	15.560	BM	n.a.
2	Propionic acid	9.030	4.889	9.623	M *	n.a.
3	FORMIC	9.330	2.239	6.529	M *	n.a.
4	Butyric Acid	10.043	3.615	6.354	M *	24.7374
5	Pyruvic acid	10.827	0.601	1.734	M *^	3.9152
6	i-Pentanoic Acid	11.260	0.932	2.139	M *	7.1403
9	Pentanoic Acid	13.743	0.557	1.180	BMB	4.6422
10	BAK	17.310	9.008	20.370	BM	n.a.
11	i-Hexanoic Acid	18.330	0.196	0.412	MB	2.0695
12	Hexanoic Acid	20.500	0.180	0.364	BMB	1.9692

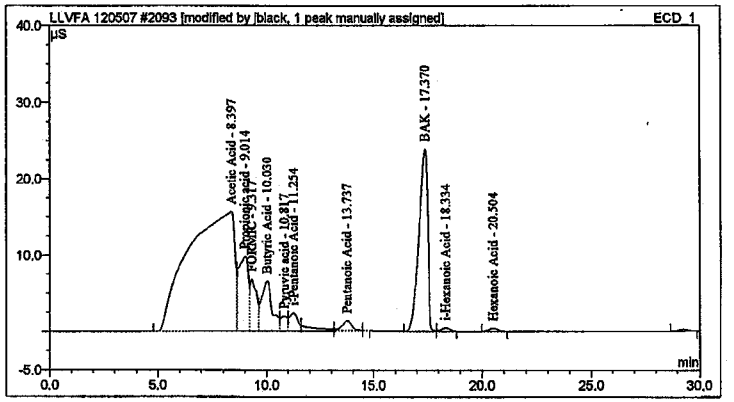


MICROSEEPS

Sample Analysis Report

Sample Name:	P0804340-01A-MSD	**Sequence No:**	2093
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:	5/7/2008 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	Acetic Acid	8.397	38.052	15.625	BM	n.a.
2	Propionic acid	9.014	4.941	9.724	M *	n.a.
3	FORMIC	9.317	2.324	6.765	M *	n.a.
4	Butyric Acid	10.030	3.762	6.470	M *	25.7252
5	Pyruvic acid	10.817	0.648	1.895	M *^	4.1465
6	i-Pentanoic Acid	11.254	1.033	2.298	M *	7.8523
8	Pentanoic Acid	13.737	0.687	1.275	M	5.7234
10	BAK	17.370	11.202	23.870	BM	n.a.
11	i-Hexanoic Acid	18.334	0.193	0.422	MB	2.0350
12	Hexanoic Acid	20.504	0.190	0.385	BMB	2.0764



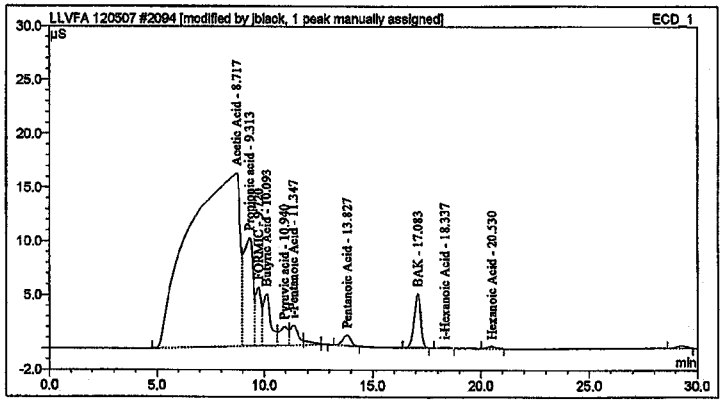
BOE-C6-0188800

MICROSEEPS

Sample Analysis Report

Sample Name:	P0804340-02A	**Sequence No:**	2094
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:	5/7/2008 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	Acetic Acid	8.717	43.722	16.146	BM	n.a.
2	Propionic acid	9.313	5.019	10.064	M *	n.a.
3	FORMIC	9.720	1.622	5.458	M *	n.a.
4	Butyric Acid	10.093	2.073	4.852	M	14.2836
5	Pyruvic acid	10.940	0.801	1.739	M *^	4.8638
6	i-Pentanoic Acid	11.347	0.817	1.842	M *	6.3120
9	Pentanoic Acid	13.827	0.442	0.996	BMB	3.6931
10	BAK	17.083	1.793	5.057	BMB	n.a.
11	i-Hexanoic Acid	18.337	0.043	0.102	BMB	0.4936
12	Hexanoic Acid	20.530	0.078	0.168	BMB	0.8954

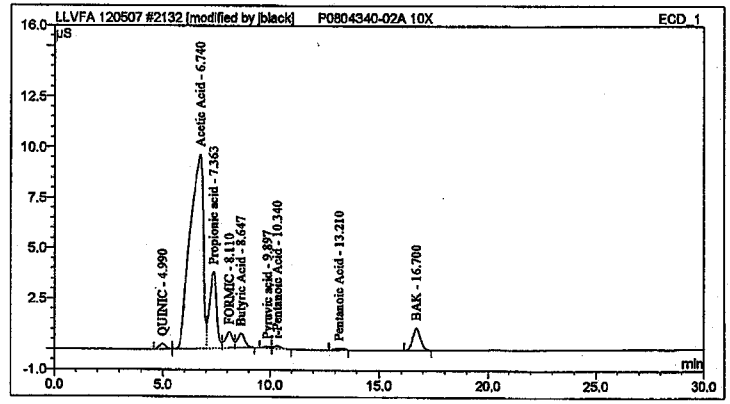


MICROSEEPS

Sample Analysis Report

Sample Name:	P0804340-02A 10X	**Sequence No:**	2132
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:	5/9/2008 6:27 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	4.990	0.099	0.262	BM	n.a.
2	Acetic Acid	6.740	6.745	9.600	M	n.a.
3	Propionic acid	7.363	1.470	3.763	M	9.1980
4	FORMIC	8.110	0.305	0.783	M	n.a.
5	Butyric Acid	8.647	0.267	0.690	MB	1.8822
6	Pyruvic acid	9.897	0.034	0.097	BM	0.3781
7	i-Pentanoic Acid	10.340	0.058	0.134	MB	0.5204
8	Pentanoic Acid	13.210	0.043	0.098	BMB	0.3910
9	BAK	16.700	0.449	1.093	BMB	n.a.



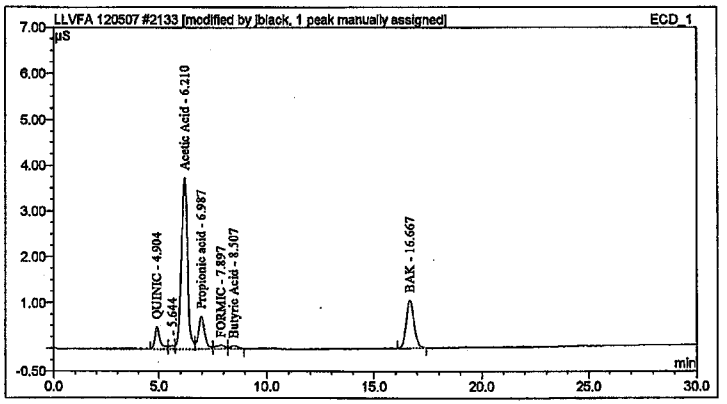
BOE-C6-0188801

MICROSEEPS

Sample Analysis Report

Sample Name:	P0804340-02A 100X	**Sequence No:**	2133
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:	5/9/2008 7:08 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	4.904	0.138	0.488	BM	n.a.
3	Acetic Acid	6.210	1.236	3.744	M *	5.4787
4	Propionic acid	6.987	0.243	0.715	M *	1.4285
5	FORMIC	7.897	0.039	0.084	M	n.a.
6	Butyric Acid	8.507	0.028	0.073	MB	0.2240
7	BAK	16.667	0.446	1.054	BMB	n.a.

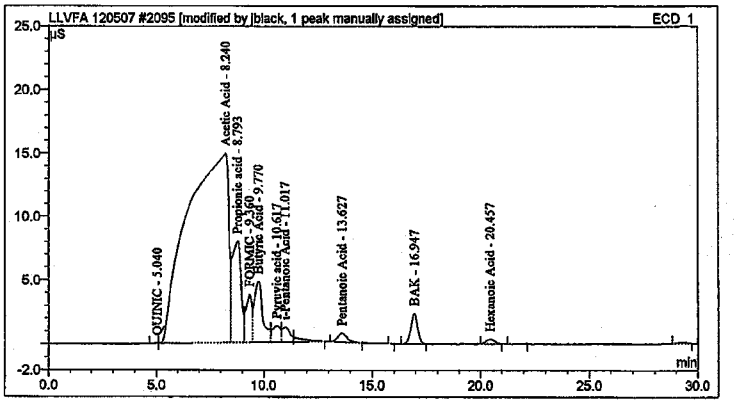


MICROSEEPS

Sample Analysis Report

Sample Name:	P0804340-03A	**Sequence No:**	2095
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:	5/7/2008 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
1	QUINIC	5.040	0.007	0.039	BM	n.a.
2	Acetic Acid	8.240	32.756	14.859	M *	n.a.
3	Propionic acid	8.793	3.607	7.916	M *	28.0648
4	FORMIC	9.360	1.269	3.735	M *^	n.a.
5	Butyric Acid	9.770	2.157	4.745	M *	14.8611
6	Pyruvic acid	10.617	0.546	1.255	M *	3.6353
7	i-Pentanoic Acid	11.017	0.489	1.144	M *	3.8819
9	Pentanoic Acid	13.627	0.344	0.677	BMB	2.8807
11	BAK	16.947	0.851	2.348	BMB	n.a.
12	Hexanoic Acid	20.457	0.156	0.336	BMB	1.7138



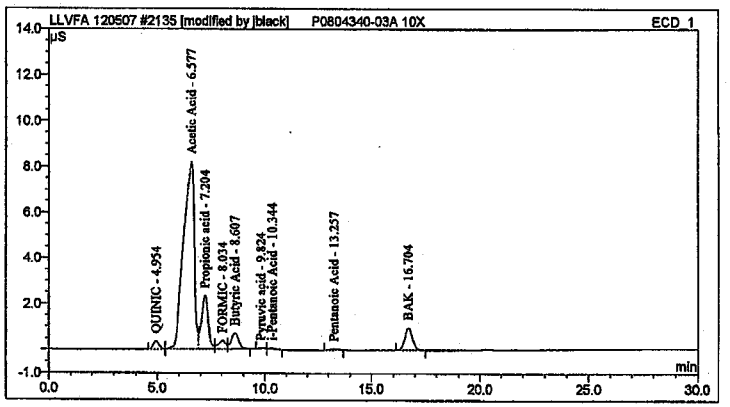
BOE-C6-0188802

MICROSEEPS

Sample Analysis Report

Sample Name:	P0804340-03A 10X	**Sequence No:**	2135
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:	5/9/2008 8:31 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	4.954	0.119	0.369	BM	n.a.
2	Acetic Acid	6.577	4.688	8.205	M	n.a.
3	Propionic acid	7.204	0.828	2.315	M	4.9744
4	FORMIC	8.034	0.157	0.373	M	n.a.
5	Butyric Acid	8.607	0.264	0.684	MB	1.8628
6	Pyruvic acid	9.824	0.008	0.029	BMb*	0.1596
7	I-Pentanoic Acid	10.344	0.012	0.037	bMB	0.1416
8	Pentanoic Acid	13.257	0.026	0.057	BMB	0.2492
9	BAK	16.704	0.398	0.974	BMB	n.a.

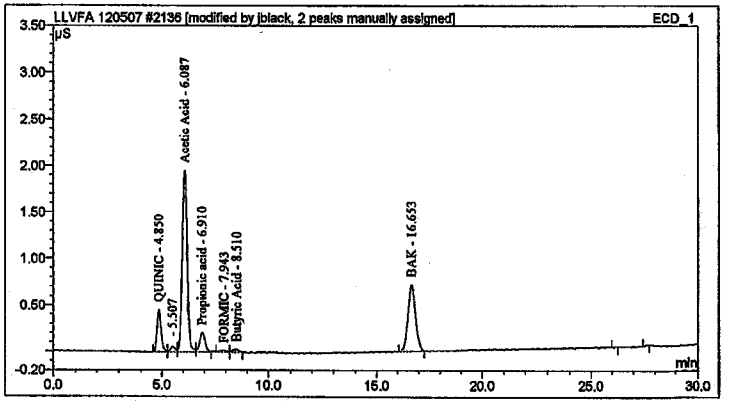


MICROSEEPS

Sample Analysis Report

Sample Name:	P0804340-03A 100X	**Sequence No:**	2136
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:	5/9/2008 9:12 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	4.850	0.099	0.460	BM	n.a.
3	Acetic Acid	6.087	0.528	1.955	M *	2.2151
4	Propionic acid	6.910	0.062	0.212	MB*	0.3782
5	FORMIC	7.943	0.006	0.019	BMB*^	n.a.
6	Butyric Acid	8.510	0.011	0.032	BMB	0.1059
7	BAK	16.653	0.296	0.721	BMB	n.a.



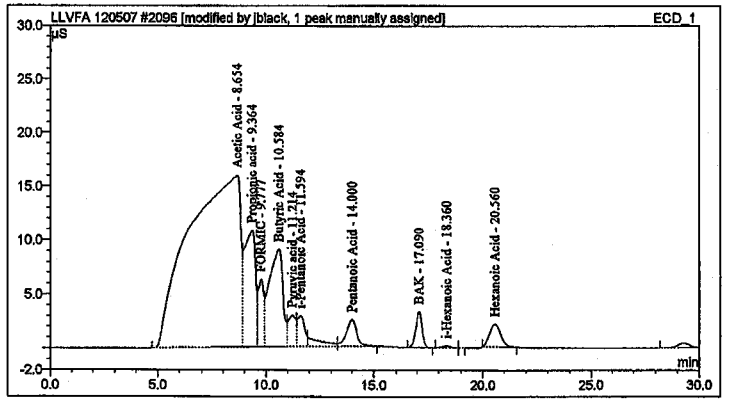
BOE-C6-0188803

MICROSEEPS

Sample Analysis Report

Sample Name:	P0804340-04A	**Sequence No:**	2096
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:	5/7/2008 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	Acetic Acid	8.654	43.021	15.899	BM *	n.a.
2	Propionic acid	9.364	6.421	10.770	M *	n.a.
3	FORMIC	9.777	1.909	6.245	M *	n.a.
4	Butyric Acid	10.584	6.506	9.007	M ^	43.9969
5	Pyruvic acid	11.214	1.188	2.936	M *	6.4741
6	i-Pentanoic Acid	11.594	1.113	2.853	M *	8.4154
8	Pentanoic Acid	14.000	1.378	2.481	MB*	11.4637
9	BAK	17.090	1.155	3.298	BMB	n.a.
10	i-Hexanoic Acid	18.360	0.072	0.163	BMB	0.8005
12	Hexanoic Acid	20.560	1.246	2.116	BMB	12.4766

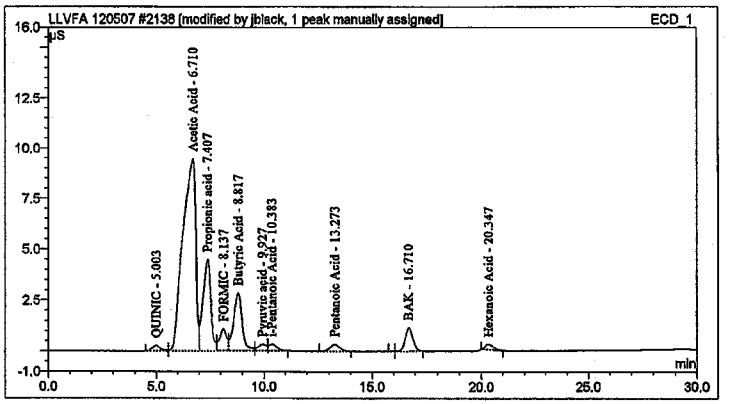


MICROSEEPS

Sample Analysis Report

Sample Name:	P0804340-04A 10X	**Sequence No:**	2138
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:	5/9/2008 10:34 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	5.003	0.117	0.268	BM	n.a.
2	Acetic Acid	6.710	6.487	9.443	M ^	n.a.
3	Propionic acid	7.407	1.931	4.481	M	12.5039
4	FORMIC	8.137	0.418	1.060	M	n.a.
5	Butyric Acid	8.817	1.288	2.831	M	8.9130
6	Pyruvic acid	9.927	0.141	0.301	M	1.2041
7	i-Pentanoic Acid	10.383	0.131	0.299	MB	1.1039
8	Pentanoic Acid	13.273	0.166	0.322	BMB	1.4066
10	BAK	16.710	0.459	1.136	BMB	n.a.
11	Hexanoic Acid	20.347	0.116	0.252	BMB	1.2932



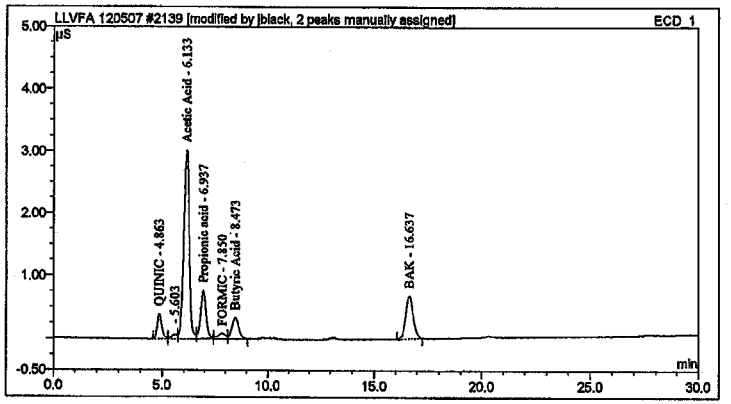
BOE-C6-0188804

MICROSEEPS

Sample Analysis Report

Sample Name:	P0804340-04A 100X	**Sequence No:**	2139
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:	5/9/2008 11:15 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	4.863	0.093	0.397	BM	n.a.
3	Acetic Acid	6.133	0.887	3.030	M	3.8260
4	Propionic acid	6.937	0.237	0.772	M	1.3912
5	FORMIC	7.850	0.039	0.085	M *^	n.a.
6	Butyric Acid	8.473	0.124	0.339	MB*	0.8919
7	BAK	16.637	0.278	0.678	BMB	n.a.

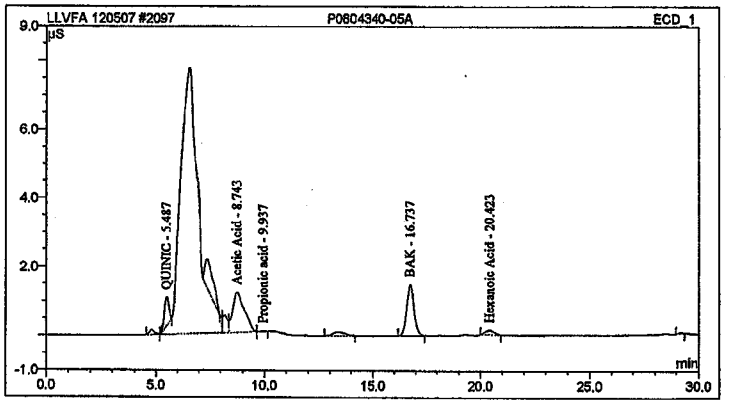


MICROSEEPS

Sample Analysis Report

Sample Name:	P0804340-05A	**Sequence No:**	2097
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:	5/7/2008 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
2	QUINIC	5.487	0.192	0.828	Ru	n.a.
6	Acetic Acid	8.743	0.708	1.162	M	3.0095
7	Propionic acid	9.937	0.006	0.024	MB	0.0587
9	BAK	16.737	0.586	1.488	BMB	n.a.
10	Hexanoic Acid	20.423	0.065	0.135	BMB	0.7496



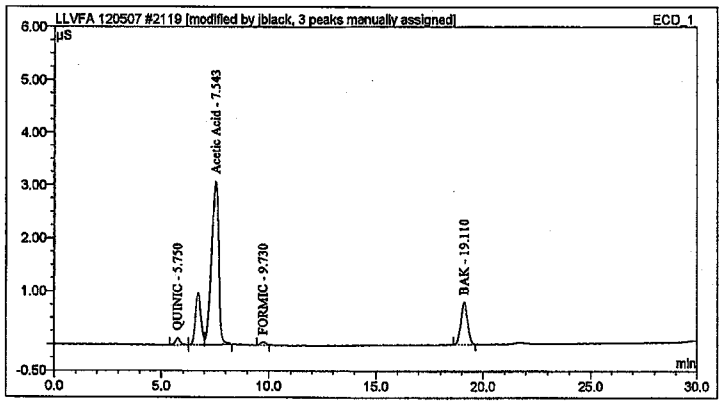
BOE-C6-0188805

MICROSEEPS

Sample Analysis Report

Sample Name:	P0804340-05A RERUN	**Sequence No:**	2119
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:	5/8/2008 4:08 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	5.750	0.035	0.130	BM	n.a.
3	Acetic Acid	7.543	1.213	3.078	MB^	5.3676
4	FORMIC	9.730	0.017	0.055	BMB^	n.a.
5	BAK	19.110	0.291	0.796	BMB^	n.a.



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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: 05/20/08
Received: 05/20/08
Issued: 06/04/08 13:24

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 7°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.

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

ADDITIONAL INFORMATION: This is a partial report pending Volatile Fatty Acids data from sublab (Microseeps).

Please note there is a positive hit for Methylene Chloride in the 8260B Batch # 8E23029 Method Blank at 1.75 ug/L, due to the required dilutions for -05RE1 and -06RE1 Methylene Chloride has been reported "ND" at 10.0 ug/L and 5.0 ug/L respectively.

The samples were received at 7.4 deg C (outside the 2 - 6 degree C acceptance criteria). Please note the samples were dropped off at Air Technology Laboratories for RSK Dissolved Gases at 14 deg C due to laboratory error.

LABORATORY ID	CLIENT ID	MATRIX
IRE1711-01	AW0073C_WG20080520_01	Water
IRE1711-02	AW0075UB_WG20080520_01	Water

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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: IRE1711

Sampled: 05/20/08
Received: 05/20/08

LABORATORY ID	CLIENT ID	MATRIX
IRE1711-03	AW0076UB_WG20080520_01	Water
IRE1711-04	AW0077UB_WG20080520_01	Water
IRE1711-05	EWB002_WG20080520_01	Water
IRE1711-06	EWB002_WG20080520_02	Water
IRE1711-07	TB_AVO20080520_01	Water

Reviewed By:

TestAmerica Irvine

Trupti Mistry
Project Manager

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BOE-C6-0188807

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: IRE1711

Sampled: 05/20/08
Received: 05/20/08

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: IRE1711-01 (AW0073C_WG20080520_01 - Water)									
Reporting Units: ug/l									
Tetrahydrofuran (THF)	EPA 8260B	8E24007	350	1000	**7700**	100	05/24/08	05/24/08	
Toluene	EPA 8260B	8E24007	36	100	**620**	100	05/24/08	05/24/08	
Vinyl chloride	EPA 8260B	8E24007	40	50	**430**	100	05/24/08	05/24/08	
Surrogate: Dibromofluoromethane (80-120%)					*84 %*				
Surrogate: Toluene-d8 (80-120%)					*93 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)					*89 %*				
Sample ID: IRE1711-01RE1 (AW0073C_WG20080520_01 - Water)									
Reporting Units: ug/l									
Acetone	EPA 8260B	8E23021	9.0	20	ND	2	05/23/08	05/23/08	
tert-Amyl Methyl Ether (TAME)	EPA 8260B	8E23021	0.66	4.0	ND	2	05/23/08	05/23/08	
Benzene	EPA 8260B	8E23021	0.56	1.0	**4.0**	2	05/23/08	05/23/08	
Bromobenzene	EPA 8260B	8E23021	0.54	2.0	ND	2	05/23/08	05/23/08	
Bromochloromethane	EPA 8260B	8E23021	0.80	2.0	ND	2	05/23/08	05/23/08	
Bromodichloromethane	EPA 8260B	8E23021	0.60	2.0	ND	2	05/23/08	05/23/08	
Bromoform	EPA 8260B	8E23021	0.80	2.0	ND	2	05/23/08	05/23/08	
Bromomethane	EPA 8260B	8E23021	0.84	2.0	ND	2	05/23/08	05/23/08	
tert-Butanol (TBA)	EPA 8260B	8E23021	13	50	ND	2	05/23/08	05/23/08	
2-Butanone (MEK)	EPA 8260B	8E23021	9.4	10	ND	2	05/23/08	05/23/08	
tert-Butylbenzene	EPA 8260B	8E23021	0.44	2.0	ND	2	05/23/08	05/23/08	
n-Butylbenzene	EPA 8260B	8E23021	0.74	2.0	ND	2	05/23/08	05/23/08	
sec-Butylbenzene	EPA 8260B	8E23021	0.50	2.0	ND	2	05/23/08	05/23/08	
Carbon Disulfide	EPA 8260B	8E23021	0.96	2.0	ND	2	05/23/08	05/23/08	
Carbon tetrachloride	EPA 8260B	8E23021	0.56	1.0	ND	2	05/23/08	05/23/08	
Chlorobenzene	EPA 8260B	8E23021	0.72	2.0	ND	2	05/23/08	05/23/08	
Chloroethane	EPA 8260B	8E23021	0.80	4.0	**2.8**	2	05/23/08	05/23/08	Ja
Chloroform	EPA 8260B	8E23021	0.66	2.0	ND	2	05/23/08	05/23/08	
Chloromethane	EPA 8260B	8E23021	0.80	4.0	ND	2	05/23/08	05/23/08	
2-Chlorotoluene	EPA 8260B	8E23021	0.56	2.0	ND	2	05/23/08	05/23/08	
4-Chlorotoluene	EPA 8260B	8E23021	0.58	2.0	ND	2	05/23/08	05/23/08	
1,2-Dibromo-3-chloropropane	EPA 8260B	8E23021	1.9	4.0	ND	2	05/23/08	05/23/08	
Dibromochloromethane	EPA 8260B	8E23021	0.80	2.0	ND	2	05/23/08	05/23/08	
1,2-Dibromoethane (EDB)	EPA 8260B	8E23021	0.80	2.0	ND	2	05/23/08	05/23/08	
1,3-Dichlorobenzene	EPA 8260B	8E23021	0.70	2.0	ND	2	05/23/08	05/23/08	
1,4-Dichlorobenzene	EPA 8260B	8E23021	0.74	2.0	ND	2	05/23/08	05/23/08	
1,2-Dichlorobenzene	EPA 8260B	8E23021	0.64	2.0	ND	2	05/23/08	05/23/08	
Dichlorodifluoromethane	EPA 8260B	8E23021	0.52	2.0	ND	2	05/23/08	05/23/08	
1,1-Dichloroethane	EPA 8260B	8E23021	0.80	2.0	**39**	2	05/23/08	05/23/08	
1,2-Dichloroethane	EPA 8260B	8E23021	0.56	1.0	**12**	2	05/23/08	05/23/08	
cis-1,2-Dichloroethene	EPA 8260B	8E23021	0.64	2.0	**46**	2	05/23/08	05/23/08	
1,1-Dichloroethene	EPA 8260B	8E23021	0.84	2.0	**81**	2	05/23/08	05/23/08	

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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: IRE1711

Sampled: 05/20/08
Received: 05/20/08

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: IRE1711-01RE1 (AW0073C_WG20080520_01 - Water) - cont.									
Reporting Units: ug/l									
trans-1,2-Dichloroethene	EPA 8260B	8E23021	0.60	2.0	**12**	2	05/23/08	05/23/08	
2,2-Dichloropropane	EPA 8260B	8E23021	0.68	2.0	ND	2	05/23/08	05/23/08	
1,2-Dichloropropane	EPA 8260B	8E23021	0.70	2.0	ND	2	05/23/08	05/23/08	
cis-1,3-Dichloropropene	EPA 8260B	8E23021	0.44	1.0	ND	2	05/23/08	05/23/08	
1,1-Dichloropropene	EPA 8260B	8E23021	0.56	2.0	ND	2	05/23/08	05/23/08	
trans-1,3-Dichloropropene	EPA 8260B	8E23021	0.64	1.0	ND	2	05/23/08	05/23/08	
Di-isopropyl Ether (DIPE)	EPA 8260B	8E23021	0.50	4.0	**1.3**	2	05/23/08	05/23/08	Ja
Ethylbenzene	EPA 8260B	8E23021	0.50	2.0	**0.84**	2	05/23/08	05/23/08	Ja
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	8E23021	0.56	4.0	ND	2	05/23/08	05/23/08	
Hexachlorobutadiene	EPA 8260B	8E23021	0.76	2.0	ND	2	05/23/08	05/23/08	
2-Hexanone	EPA 8260B	8E23021	5.2	12	ND	2	05/23/08	05/23/08	
Iodomethane	EPA 8260B	8E23021	2.0	4.0	ND	2	05/23/08	05/23/08	
Isopropylbenzene	EPA 8260B	8E23021	0.50	2.0	ND	2	05/23/08	05/23/08	
p-Isopropyltoluene	EPA 8260B	8E23021	0.56	2.0	ND	2	05/23/08	05/23/08	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	8E23021	0.64	2.0	ND	2	05/23/08	05/23/08	
Methylene chloride	EPA 8260B	8E23021	1.9	2.0	ND	2	05/23/08	05/23/08	
4-Methyl-2-pentanone (MIBK)	EPA 8260B	8E23021	7.0	10	**170**	2	05/23/08	05/23/08	
n-Propylbenzene	EPA 8260B	8E23021	0.54	2.0	ND	2	05/23/08	05/23/08	
Styrene	EPA 8260B	8E23021	0.40	2.0	ND	2	05/23/08	05/23/08	
1,1,1,2-Tetrachloroethane	EPA 8260B	8E23021	0.54	2.0	ND	2	05/23/08	05/23/08	
1,1,2,2-Tetrachloroethane	EPA 8260B	8E23021	0.60	2.0	ND	2	05/23/08	05/23/08	
Tetrachloroethene	EPA 8260B	8E23021	0.64	2.0	ND	2	05/23/08	05/23/08	
1,2,3-Trichlorobenzene	EPA 8260B	8E23021	0.60	2.0	ND	2	05/23/08	05/23/08	
1,2,4-Trichlorobenzene	EPA 8260B	8E23021	0.96	2.0	ND	2	05/23/08	05/23/08	
1,1,1-Trichloroethane	EPA 8260B	8E23021	0.60	2.0	**5.6**	2	05/23/08	05/23/08	
1,1,2-Trichloroethane	EPA 8260B	8E23021	0.60	2.0	**1.2**	2	05/23/08	05/23/08	Ja
Trichloroethene	EPA 8260B	8E23021	0.52	2.0	**3.5**	2	05/23/08	05/23/08	
Trichlorofluoromethane	EPA 8260B	8E23021	0.68	4.0	ND	2	05/23/08	05/23/08	
1,2,3-Trichloropropane	EPA 8260B	8E23021	0.80	2.0	ND	2	05/23/08	05/23/08	
1,3,5-Trimethylbenzene	EPA 8260B	8E23021	0.52	2.0	ND	2	05/23/08	05/23/08	
1,2,4-Trimethylbenzene	EPA 8260B	8E23021	0.46	2.0	ND	2	05/23/08	05/23/08	
Vinyl acetate	EPA 8260B	8E23021	2.0	12	ND	2	05/23/08	05/23/08	
o-Xylene	EPA 8260B	8E23021	0.60	1.0	**1.2**	2	05/23/08	05/23/08	
Xylenes, Total	EPA 8260B	8E23021	1.8	2.0	**4.7**	2	05/23/08	05/23/08	
m,p-Xylenes	EPA 8260B	8E23021	1.2	2.0	**3.6**	2	05/23/08	05/23/08	
Surrogate: Dibromofluoromethane (80-120%)					*90 %*				
Surrogate: Toluene-d8 (80-120%)					*93 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)					*90 %*				

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BOE-C6-0188808

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: IRE1711

Sampled: 05/20/08
Received: 05/20/08

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: IRE1711-02 (AW0075UB_WG20080520_01 - Water)									
Reporting Units: ug/l									
Acetone	EPA 8260B	8E23021	900	2000	**3900**	200	05/23/08	05/23/08	
2-Butanone (MEK)	EPA 8260B	8E23021	940	1000	**12000**	200	05/23/08	05/23/08	
4-Methyl-2-pentanone (MIBK)	EPA 8260B	8E23021	700	1000	**5500**	200	05/23/08	05/23/08	
Toluene	EPA 8260B	8E23021	72	200	**4600**	200	05/23/08	05/23/08	
Vinyl chloride	EPA 8260B	8E23021	80	100	**3000**	200	05/23/08	05/23/08	
Surrogate: Dibromofluoromethane (80-120%)					*90 %*				
Surrogate: Toluene-d8 (80-120%)					*94 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)					*93 %*				
Sample ID: IRE1711-02RE1 (AW0075UB_WG20080520_01 - Water)									
Reporting Units: ug/l									
tert-Amyl Methyl Ether (TAME)	EPA 8260B	8E23021	13	80	ND	40	05/23/08	05/23/08	
Benzene	EPA 8260B	8E23021	11	20	**32**	40	05/23/08	05/23/08	
Bromobenzene	EPA 8260B	8E23021	11	40	ND	40	05/23/08	05/23/08	
Bromochloromethane	EPA 8260B	8E23021	16	40	ND	40	05/23/08	05/23/08	
Bromodichloromethane	EPA 8260B	8E23021	12	40	ND	40	05/23/08	05/23/08	
Bromoform	EPA 8260B	8E23021	16	40	ND	40	05/23/08	05/23/08	
Bromomethane	EPA 8260B	8E23021	17	40	ND	40	05/23/08	05/23/08	
tert-Butanol (TBA)	EPA 8260B	8E23021	260	1000	ND	40	05/23/08	05/23/08	
tert-Butylbenzene	EPA 8260B	8E23021	8.8	40	ND	40	05/23/08	05/23/08	
n-Butylbenzene	EPA 8260B	8E23021	15	40	ND	40	05/23/08	05/23/08	
sec-Butylbenzene	EPA 8260B	8E23021	10	40	ND	40	05/23/08	05/23/08	
Carbon Disulfide	EPA 8260B	8E23021	19	40	ND	40	05/23/08	05/23/08	
Carbon tetrachloride	EPA 8260B	8E23021	11	20	ND	40	05/23/08	05/23/08	
Chlorobenzene	EPA 8260B	8E23021	14	40	ND	40	05/23/08	05/23/08	
Chloroethane	EPA 8260B	8E23021	16	80	ND	40	05/23/08	05/23/08	
Chloroform	EPA 8260B	8E23021	13	40	ND	40	05/23/08	05/23/08	
Chloromethane	EPA 8260B	8E23021	16	80	ND	40	05/23/08	05/23/08	
2-Chlorotoluene	EPA 8260B	8E23021	11	40	ND	40	05/23/08	05/23/08	
4-Chlorotoluene	EPA 8260B	8E23021	12	40	ND	40	05/23/08	05/23/08	
1,2-Dibromo-3-chloropropane	EPA 8260B	8E23021	39	80	ND	40	05/23/08	05/23/08	
Dibromochloromethane	EPA 8260B	8E23021	16	40	ND	40	05/23/08	05/23/08	
1,2-Dibromoethane (EDB)	EPA 8260B	8E23021	16	40	ND	40	05/23/08	05/23/08	
1,3-Dichlorobenzene	EPA 8260B	8E23021	14	40	ND	40	05/23/08	05/23/08	
1,4-Dichlorobenzene	EPA 8260B	8E23021	15	40	ND	40	05/23/08	05/23/08	
1,2-Dichlorobenzene	EPA 8260B	8E23021	13	40	ND	40	05/23/08	05/23/08	
Dichlorodifluoromethane	EPA 8260B	8E23021	10	40	ND	40	05/23/08	05/23/08	
1,1-Dichloroethane	EPA 8260B	8E23021	16	40	**320**	40	05/23/08	05/23/08	
1,2-Dichloroethane	EPA 8260B	8E23021	11	20	**87**	40	05/23/08	05/23/08	
cis-1,2-Dichloroethene	EPA 8260B	8E23021	13	40	**1500**	40	05/23/08	05/23/08	
1,1-Dichloroethene	EPA 8260B	8E23021	17	40	**2300**	40	05/23/08	05/23/08	

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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: IRE1711

Sampled: 05/20/08
Received: 05/20/08

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: IRE1711-02RE1 (AW0075UB_WG20080520_01 - Water) - cont.									
Reporting Units: ug/l									
trans-1,2-Dichloroethene	EPA 8260B	8E23021	12	40	**160**	40	05/23/08	05/23/08	
2,2-Dichloropropane	EPA 8260B	8E23021	14	40	ND	40	05/23/08	05/23/08	
1,2-Dichloropropane	EPA 8260B	8E23021	14	40	ND	40	05/23/08	05/23/08	
cis-1,3-Dichloropropene	EPA 8260B	8E23021	8.8	20	ND	40	05/23/08	05/23/08	
1,1-Dichloropropene	EPA 8260B	8E23021	11	40	ND	40	05/23/08	05/23/08	
trans-1,3-Dichloropropene	EPA 8260B	8E23021	13	20	ND	40	05/23/08	05/23/08	
Di-isopropyl Ether (DIPE)	EPA 8260B	8E23021	10	80	ND	40	05/23/08	05/23/08	
Ethylbenzene	EPA 8260B	8E23021	10	40	ND	40	05/23/08	05/23/08	
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	8E23021	11	80	ND	40	05/23/08	05/23/08	
Hexachlorobutadiene	EPA 8260B	8E23021	15	40	ND	40	05/23/08	05/23/08	
2-Hexanone	EPA 8260B	8E23021	100	240	ND	40	05/23/08	05/23/08	
Iodomethane	EPA 8260B	8E23021	40	80	ND	40	05/23/08	05/23/08	
Isopropylbenzene	EPA 8260B	8E23021	10	40	ND	40	05/23/08	05/23/08	
p-Isopropyltoluene	EPA 8260B	8E23021	11	40	ND	40	05/23/08	05/23/08	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	8E23021	13	40	ND	40	05/23/08	05/23/08	
Methylene chloride	EPA 8260B	8E23021	38	40	ND	40	05/23/08	05/23/08	
n-Propylbenzene	EPA 8260B	8E23021	11	40	ND	40	05/23/08	05/23/08	
Styrene	EPA 8260B	8E23021	8.0	40	ND	40	05/23/08	05/23/08	
1,1,1,2-Tetrachloroethane	EPA 8260B	8E23021	11	40	ND	40	05/23/08	05/23/08	
1,1,2,2-Tetrachloroethane	EPA 8260B	8E23021	12	40	ND	40	05/23/08	05/23/08	
Tetrachloroethene	EPA 8260B	8E23021	13	40	ND	40	05/23/08	05/23/08	
Tetrahydrofuran (THF)	EPA 8260B	8E23021	140	400	ND	40	05/23/08	05/23/08	
1,2,3-Trichlorobenzene	EPA 8260B	8E23021	12	40	ND	40	05/23/08	05/23/08	
1,2,4-Trichlorobenzene	EPA 8260B	8E23021	19	40	ND	40	05/23/08	05/23/08	
1,1,1-Trichloroethane	EPA 8260B	8E23021	12	40	**22**	40	05/23/08	05/23/08	Ja
1,1,2-Trichloroethane	EPA 8260B	8E23021	12	40	**42**	40	05/23/08	05/23/08	
Trichloroethene	EPA 8260B	8E23021	10	40	**340**	40	05/23/08	05/23/08	
Trichlorofluoromethane	EPA 8260B	8E23021	14	80	ND	40	05/23/08	05/23/08	
1,2,3-Trichloropropane	EPA 8260B	8E23021	16	40	ND	40	05/23/08	05/23/08	
1,3,5-Trimethylbenzene	EPA 8260B	8E23021	10	40	ND	40	05/23/08	05/23/08	
1,2,4-Trimethylbenzene	EPA 8260B	8E23021	9.2	40	ND	40	05/23/08	05/23/08	
Vinyl acetate	EPA 8260B	8E23021	40	240	ND	40	05/23/08	05/23/08	
o-Xylene	EPA 8260B	8E23021	12	20	**14**	40	05/23/08	05/23/08	Ja
Xylenes, Total	EPA 8260B	8E23021	36	40	**44**	40	05/23/08	05/23/08	
m,p-Xylenes	EPA 8260B	8E23021	24	40	**30**	40	05/23/08	05/23/08	Ja
Surrogate: Dibromofluoromethane (80-120%)					*94 %*				
Surrogate: Toluene-d8 (80-120%)					*95 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)					*91 %*				

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Trupti Mistry
Project Manager

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BOE-C6-0188809

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: IRE1711

Sampled: 05/20/08
Received: 05/20/08

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: IRE1711-03 (AW0076UB_WG20080520_01 - Water)									
Reporting Units: ug/l									
2-Butanone (MEK)	EPA 8260B	8E23021	9400	10000	**66000**	2000	05/23/08	05/23/08	
Surrogate: Dibromofluoromethane (80-120%)					*91 %*				
Surrogate: Toluene-d8 (80-120%)					*93 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)					*90 %*				
Sample ID: IRE1711-03RE1 (AW0076UB_WG20080520_01 - Water)									
Reporting Units: ug/l									
Acetone	EPA 8260B	8E23021	1800	4000	**13000**	400	05/23/08	05/23/08	
tert-Amyl Methyl Ether (TAME)	EPA 8260B	8E23021	130	800	ND	400	05/23/08	05/23/08	
Benzene	EPA 8260B	8E23021	110	200	ND	400	05/23/08	05/23/08	
Bromobenzene	EPA 8260B	8E23021	110	400	ND	400	05/23/08	05/23/08	
Bromochloromethane	EPA 8260B	8E23021	160	400	ND	400	05/23/08	05/23/08	
Bromodichloromethane	EPA 8260B	8E23021	120	400	ND	400	05/23/08	05/23/08	
Bromoform	EPA 8260B	8E23021	160	400	ND	400	05/23/08	05/23/08	
Bromomethane	EPA 8260B	8E23021	170	400	ND	400	05/23/08	05/23/08	
tert-Butanol (TBA)	EPA 8260B	8E23021	2600	10000	ND	400	05/23/08	05/23/08	
tert-Butylbenzene	EPA 8260B	8E23021	88	400	ND	400	05/23/08	05/23/08	
n-Butylbenzene	EPA 8260B	8E23021	150	400	ND	400	05/23/08	05/23/08	
sec-Butylbenzene	EPA 8260B	8E23021	100	400	ND	400	05/23/08	05/23/08	
Carbon Disulfide	EPA 8260B	8E23021	190	400	ND	400	05/23/08	05/23/08	
Carbon tetrachloride	EPA 8260B	8E23021	110	200	ND	400	05/23/08	05/23/08	
Chlorobenzene	EPA 8260B	8E23021	140	400	ND	400	05/23/08	05/23/08	
Chloroethane	EPA 8260B	8E23021	160	800	ND	400	05/23/08	05/23/08	
Chloroform	EPA 8260B	8E23021	130	400	ND	400	05/23/08	05/23/08	
Chloromethane	EPA 8260B	8E23021	160	800	ND	400	05/23/08	05/23/08	
2-Chlorotoluene	EPA 8260B	8E23021	110	400	ND	400	05/23/08	05/23/08	
4-Chlorotoluene	EPA 8260B	8E23021	120	400	ND	400	05/23/08	05/23/08	
1,2-Dibromo-3-chloropropane	EPA 8260B	8E23021	390	800	ND	400	05/23/08	05/23/08	
Dibromochloromethane	EPA 8260B	8E23021	160	400	ND	400	05/23/08	05/23/08	
1,2-Dibromoethane (EDB)	EPA 8260B	8E23021	160	400	ND	400	05/23/08	05/23/08	
1,3-Dichlorobenzene	EPA 8260B	8E23021	140	400	ND	400	05/23/08	05/23/08	
1,4-Dichlorobenzene	EPA 8260B	8E23021	150	400	ND	400	05/23/08	05/23/08	
1,2-Dichlorobenzene	EPA 8260B	8E23021	130	400	ND	400	05/23/08	05/23/08	
Dichlorodifluoromethane	EPA 8260B	8E23021	100	400	ND	400	05/23/08	05/23/08	
1,1-Dichloroethane	EPA 8260B	8E23021	160	400	**680**	400	05/23/08	05/23/08	
1,2-Dichloroethane	EPA 8260B	8E23021	110	200	**180**	400	05/23/08	05/23/08	Ja
cis-1,2-Dichloroethene	EPA 8260B	8E23021	130	400	**3000**	400	05/23/08	05/23/08	
1,1-Dichloroethene	EPA 8260B	8E23021	170	400	**2400**	400	05/23/08	05/23/08	
trans-1,2-Dichloroethene	EPA 8260B	8E23021	120	400	**260**	400	05/23/08	05/23/08	Ja
2,2-Dichloropropane	EPA 8260B	8E23021	140	400	ND	400	05/23/08	05/23/08	
1,2-Dichloropropane	EPA 8260B	8E23021	140	400	ND	400	05/23/08	05/23/08	

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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: IRE1711

Sampled: 05/20/08
Received: 05/20/08

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: IRE1711-03RE1 (AW0076UB_WG20080520_01 - Water) - cont.									
Reporting Units: ug/l									
cis-1,3-Dichloropropene	EPA 8260B	8E23021	88	200	ND	400	05/23/08	05/23/08	
1,1-Dichloropropene	EPA 8260B	8E23021	110	400	ND	400	05/23/08	05/23/08	
trans-1,3-Dichloropropene	EPA 8260B	8E23021	130	200	ND	400	05/23/08	05/23/08	
Di-isopropyl Ether (DIPE)	EPA 8260B	8E23021	100	800	ND	400	05/23/08	05/23/08	
Ethylbenzene	EPA 8260B	8E23021	100	400	ND	400	05/23/08	05/23/08	
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	8E23021	110	800	ND	400	05/23/08	05/23/08	
Hexachlorobutadiene	EPA 8260B	8E23021	150	400	ND	400	05/23/08	05/23/08	
2-Hexanone	EPA 8260B	8E23021	1000	2400	ND	400	05/23/08	05/23/08	
Iodomethane	EPA 8260B	8E23021	400	800	ND	400	05/23/08	05/23/08	
Isopropylbenzene	EPA 8260B	8E23021	100	400	ND	400	05/23/08	05/23/08	
p-Isopropyltoluene	EPA 8260B	8E23021	110	400	ND	400	05/23/08	05/23/08	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	8E23021	130	400	ND	400	05/23/08	05/23/08	
Methylene chloride	EPA 8260B	8E23021	380	400	ND	400	05/23/08	05/23/08	
4-Methyl-2-pentanone (MIBK)	EPA 8260B	8E23021	1400	2000	**9500**	400	05/23/08	05/23/08	
n-Propylbenzene	EPA 8260B	8E23021	110	400	ND	400	05/23/08	05/23/08	
Styrene	EPA 8260B	8E23021	80	400	ND	400	05/23/08	05/23/08	
1,1,1,2-Tetrachloroethane	EPA 8260B	8E23021	110	400	ND	400	05/23/08	05/23/08	
1,1,2,2-Tetrachloroethane	EPA 8260B	8E23021	120	400	ND	400	05/23/08	05/23/08	
Tetrachloroethene	EPA 8260B	8E23021	130	400	ND	400	05/23/08	05/23/08	
Tetrahydrofuran (THF)	EPA 8260B	8E23021	1400	4000	ND	400	05/23/08	05/23/08	
Toluene	EPA 8260B	8E23021	140	400	**7800**	400	05/23/08	05/23/08	
1,2,3-Trichlorobenzene	EPA 8260B	8E23021	120	400	ND	400	05/23/08	05/23/08	
1,2,4-Trichlorobenzene	EPA 8260B	8E23021	190	400	ND	400	05/23/08	05/23/08	
1,1,1-Trichloroethane	EPA 8260B	8E23021	120	400	ND	400	05/23/08	05/23/08	
1,1,2-Trichloroethane	EPA 8260B	8E23021	120	400	ND	400	05/23/08	05/23/08	
Trichloroethene	EPA 8260B	8E23021	100	400	ND	400	05/23/08	05/23/08	
Trichlorofluoromethane	EPA 8260B	8E23021	140	800	ND	400	05/23/08	05/23/08	
1,2,3-Trichloropropane	EPA 8260B	8E23021	160	400	ND	400	05/23/08	05/23/08	
1,3,5-Trimethylbenzene	EPA 8260B	8E23021	100	400	ND	400	05/23/08	05/23/08	
1,2,4-Trimethylbenzene	EPA 8260B	8E23021	92	400	ND	400	05/23/08	05/23/08	
Vinyl acetate	EPA 8260B	8E23021	400	2400	ND	400	05/23/08	05/23/08	
Vinyl chloride	EPA 8260B	8E23021	160	200	**6100**	400	05/23/08	05/23/08	
o-Xylene	EPA 8260B	8E23021	120	200	ND	400	05/23/08	05/23/08	
Xylenes, Total	EPA 8260B	8E23021	360	400	ND	400	05/23/08	05/23/08	
m,p-Xylenes	EPA 8260B	8E23021	240	400	ND	400	05/23/08	05/23/08	
Surrogate: Dibromofluoromethane (80-120%)					*92 %*				
Surrogate: Toluene-d8 (80-120%)					*93 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)					*90 %*				

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Project Manager

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BOE-C6-0188810

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: IRE1711

Sampled: 05/20/08
Received: 05/20/08

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: IRE1711-04 (AW0077UB_WG20080520_01 - Water)									
Reporting Units: ug/l									
2-Butanone (MEK)	EPA 8260B	8E23021	470	500	**1500**	100	05/23/08	05/23/08	
Toluene	EPA 8260B	8E23021	36	100	**1900**	100	05/23/08	05/23/08	
Vinyl chloride	EPA 8260B	8E23021	40	50	**5800**	100	05/23/08	05/23/08	
Surrogate: Dibromofluoromethane (80-120%)					*94 %*				
Surrogate: Toluene-d8 (80-120%)					*93 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)					*91 %*				
Sample ID: IRE1711-04RE1 (AW0077UB_WG20080520_01 - Water)									
Reporting Units: ug/l									
Acetone	EPA 8260B	8E23021	90	200	**1200**	20	05/23/08	05/23/08	
tert-Amyl Methyl Ether (TAME)	EPA 8260B	8E23021	6.6	40	ND	20	05/23/08	05/23/08	
Benzene	EPA 8260B	8E23021	5.6	10	**29**	20	05/23/08	05/23/08	
Bromobenzene	EPA 8260B	8E23021	5.4	20	ND	20	05/23/08	05/23/08	
Bromochloromethane	EPA 8260B	8E23021	8.0	20	ND	20	05/23/08	05/23/08	
Bromodichloromethane	EPA 8260B	8E23021	6.0	20	ND	20	05/23/08	05/23/08	
Bromoform	EPA 8260B	8E23021	8.0	20	ND	20	05/23/08	05/23/08	
Bromomethane	EPA 8260B	8E23021	8.4	20	ND	20	05/23/08	05/23/08	
tert-Butanol (TBA)	EPA 8260B	8E23021	130	500	ND	20	05/23/08	05/23/08	
tert-Butylbenzene	EPA 8260B	8E23021	4.4	20	ND	20	05/23/08	05/23/08	
n-Butylbenzene	EPA 8260B	8E23021	7.4	20	ND	20	05/23/08	05/23/08	
sec-Butylbenzene	EPA 8260B	8E23021	5.0	20	ND	20	05/23/08	05/23/08	
Carbon Disulfide	EPA 8260B	8E23021	9.6	20	ND	20	05/23/08	05/23/08	
Carbon tetrachloride	EPA 8260B	8E23021	5.6	10	ND	20	05/23/08	05/23/08	
Chlorobenzene	EPA 8260B	8E23021	7.2	20	ND	20	05/23/08	05/23/08	
Chloroethane	EPA 8260B	8E23021	8.0	40	**47**	20	05/23/08	05/23/08	
Chloroform	EPA 8260B	8E23021	6.6	20	ND	20	05/23/08	05/23/08	
Chloromethane	EPA 8260B	8E23021	8.0	40	ND	20	05/23/08	05/23/08	
2-Chlorotoluene	EPA 8260B	8E23021	5.6	20	ND	20	05/23/08	05/23/08	
4-Chlorotoluene	EPA 8260B	8E23021	5.8	20	ND	20	05/23/08	05/23/08	
1,2-Dibromo-3-chloropropane	EPA 8260B	8E23021	19	40	ND	20	05/23/08	05/23/08	
Dibromochloromethane	EPA 8260B	8E23021	8.0	20	ND	20	05/23/08	05/23/08	
1,2-Dibromoethane (EDB)	EPA 8260B	8E23021	8.0	20	ND	20	05/23/08	05/23/08	
1,3-Dichlorobenzene	EPA 8260B	8E23021	7.0	20	ND	20	05/23/08	05/24/08	
1,4-Dichlorobenzene	EPA 8260B	8E23021	7.4	20	ND	20	05/23/08	05/24/08	
1,2-Dichlorobenzene	EPA 8260B	8E23021	6.4	20	ND	20	05/23/08	05/23/08	
Dichlorodifluoromethane	EPA 8260B	8E23021	5.2	20	ND	20	05/23/08	05/23/08	
1,1-Dichloroethane	EPA 8260B	8E23021	8.0	20	**270**	20	05/23/08	05/23/08	
1,2-Dichloroethane	EPA 8260B	8E23021	5.6	10	**87**	20	05/23/08	05/23/08	
cis-1,2-Dichloroethene	EPA 8260B	8E23021	6.4	20	**67**	20	05/23/08	05/23/08	
1,1-Dichloroethene	EPA 8260B	8E23021	8.4	20	**42**	20	05/23/08	05/23/08	
trans-1,2-Dichloroethene	EPA 8260B	8E23021	6.0	20	**120**	20	05/23/08	05/23/08	

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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: IRE1711

Sampled: 05/20/08
Received: 05/20/08

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: IRE1711-04RE1 (AW0077UB_WG20080520_01 - Water) - cont.									
Reporting Units: ug/l									
2,2-Dichloropropane	EPA 8260B	8E23021	6.8	20	ND	20	05/23/08	05/23/08	
1,2-Dichloropropane	EPA 8260B	8E23021	7.0	20	ND	20	05/23/08	05/23/08	
cis-1,3-Dichloropropene	EPA 8260B	8E23021	4.4	10	ND	20	05/23/08	05/23/08	
1,1-Dichloropropene	EPA 8260B	8E23021	5.6	20	ND	20	05/23/08	05/23/08	
trans-1,3-Dichloropropene	EPA 8260B	8E23021	6.4	10	ND	20	05/23/08	05/23/08	
Di-isopropyl Ether (DIPE)	EPA 8260B	8E23021	5.0	40	ND	20	05/23/08	05/23/08	
Ethylbenzene	EPA 8260B	8E23021	5.0	20	ND	20	05/23/08	05/23/08	
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	8E23021	5.6	40	ND	20	05/23/08	05/23/08	
Hexachlorobutadiene	EPA 8260B	8E23021	7.6	20	ND	20	05/23/08	05/23/08	
2-Hexanone	EPA 8260B	8E23021	52	120	ND	20	05/23/08	05/23/08	
Iodomethane	EPA 8260B	8E23021	20	40	ND	20	05/23/08	05/23/08	
Isopropylbenzene	EPA 8260B	8E23021	5.0	20	ND	20	05/23/08	05/23/08	
p-Isopropyltoluene	EPA 8260B	8E23021	5.6	20	ND	20	05/23/08	05/23/08	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	8E23021	6.4	20	ND	20	05/23/08	05/23/08	
Methylene chloride	EPA 8260B	8E23021	19	20	ND	20	05/23/08	05/23/08	
4-Methyl-2-pentanone (MIBK)	EPA 8260B	8E23021	70	100	**1400**	20	05/23/08	05/23/08	
n-Propylbenzene	EPA 8260B	8E23021	5.4	20	ND	20	05/23/08	05/23/08	
Styrene	EPA 8260B	8E23021	4.0	20	ND	20	05/23/08	05/23/08	
1,1,1,2-Tetrachloroethane	EPA 8260B	8E23021	5.4	20	ND	20	05/23/08	05/23/08	
1,1,2,2-Tetrachloroethane	EPA 8260B	8E23021	6.0	20	ND	20	05/23/08	05/23/08	
Tetrachloroethene	EPA 8260B	8E23021	6.4	20	ND	20	05/23/08	05/23/08	
Tetrahydrofuran (THF)	EPA 8260B	8E23021	70	200	**160**	20	05/23/08	05/23/08	Ja
1,2,3-Trichlorobenzene	EPA 8260B	8E23021	6.0	20	ND	20	05/23/08	05/23/08	
1,2,4-Trichlorobenzene	EPA 8260B	8E23021	9.6	20	ND	20	05/23/08	05/23/08	
1,1,1-Trichloroethane	EPA 8260B	8E23021	6.0	20	ND	20	05/23/08	05/23/08	
1,1,2-Trichloroethane	EPA 8260B	8E23021	6.0	20	ND	20	05/23/08	05/23/08	
Trichloroethene	EPA 8260B	8E23021	5.2	20	ND	20	05/23/08	05/23/08	
Trichlorofluoromethane	EPA 8260B	8E23021	6.8	40	ND	20	05/23/08	05/23/08	
1,2,3-Trichloropropane	EPA 8260B	8E23021	8.0	20	ND	20	05/23/08	05/23/08	
1,3,5-Trimethylbenzene	EPA 8260B	8E23021	5.2	20	ND	20	05/23/08	05/23/08	
1,2,4-Trimethylbenzene	EPA 8260B	8E23021	4.6	20	ND	20	05/23/08	05/23/08	
Vinyl acetate	EPA 8260B	8E23021	20	120	ND	20	05/23/08	05/23/08	
o-Xylene	EPA 8260B	8E23021	6.0	10	ND	20	05/23/08	05/23/08	
Xylenes, Total	EPA 8260B	8E23021	18	20	**18**	20	05/23/08	05/23/08	Ja
m,p-Xylenes	EPA 8260B	8E23021	12	20	**12**	20	05/23/08	05/23/08	Ja
Surrogate: Dibromofluoromethane (80-120%)					*93 %*				
Surrogate: Toluene-d8 (80-120%)					*94 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)					*90 %*				

TestAmerica Irvine

Trupti Mistry
Project Manager

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BOE-C6-0188811

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: IRE1711

Sampled: 05/20/08
Received: 05/20/08

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: IRE1711-05 (EWB002_WG20080520_01 - Water)									
Reporting Units: ug/l									
Toluene	EPA 8260B	8E23029	18	50	**1900**	50	05/23/08	05/24/08	
Vinyl chloride	EPA 8260B	8E23029	20	25	**3000**	50	05/23/08	05/24/08	
Surrogate: Dibromofluoromethane (80-120%)					*85 %*				
Surrogate: Toluene-d8 (80-120%)					*93 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)					*89 %*				
Sample ID: IRE1711-05RE1 (EWB002_WG20080520_01 - Water)									
Reporting Units: ug/l									
Acetone	EPA 8260B	8E23029	45	100	**280**	10	05/23/08	05/24/08	
tert-Amyl Methyl Ether (TAME)	EPA 8260B	8E23029	3.3	20	ND	10	05/23/08	05/24/08	
Benzene	EPA 8260B	8E23029	2.8	5.0	**18**	10	05/23/08	05/24/08	
Bromobenzene	EPA 8260B	8E23029	2.7	10	ND	10	05/23/08	05/24/08	
Bromochloromethane	EPA 8260B	8E23029	4.0	10	ND	10	05/23/08	05/24/08	
Bromodichloromethane	EPA 8260B	8E23029	3.0	10	ND	10	05/23/08	05/24/08	
Bromoform	EPA 8260B	8E23029	4.0	10	ND	10	05/23/08	05/24/08	
Bromomethane	EPA 8260B	8E23029	4.2	10	ND	10	05/23/08	05/24/08	
tert-Butanol (TBA)	EPA 8260B	8E23029	65	250	ND	10	05/23/08	05/24/08	
2-Butanone (MEK)	EPA 8260B	8E23029	47	50	**600**	10	05/23/08	05/24/08	
tert-Butylbenzene	EPA 8260B	8E23029	2.2	10	ND	10	05/23/08	05/24/08	
n-Butylbenzene	EPA 8260B	8E23029	3.7	10	ND	10	05/23/08	05/24/08	
sec-Butylbenzene	EPA 8260B	8E23029	2.5	10	ND	10	05/23/08	05/24/08	
Carbon Disulfide	EPA 8260B	8E23029	4.8	10	ND	10	05/23/08	05/24/08	
Carbon tetrachloride	EPA 8260B	8E23029	2.8	5.0	ND	10	05/23/08	05/24/08	
Chlorobenzene	EPA 8260B	8E23029	3.6	10	ND	10	05/23/08	05/24/08	
Chloroethane	EPA 8260B	8E23029	4.0	20	**49**	10	05/23/08	05/24/08	
Chloroform	EPA 8260B	8E23029	3.3	10	ND	10	05/23/08	05/24/08	
Chloromethane	EPA 8260B	8E23029	4.0	20	ND	10	05/23/08	05/24/08	
2-Chlorotoluene	EPA 8260B	8E23029	2.8	10	ND	10	05/23/08	05/24/08	
4-Chlorotoluene	EPA 8260B	8E23029	2.9	10	ND	10	05/23/08	05/24/08	
1,2-Dibromo-3-chloropropane	EPA 8260B	8E23029	9.7	20	ND	10	05/23/08	05/24/08	
Dibromochloromethane	EPA 8260B	8E23029	4.0	10	ND	10	05/23/08	05/24/08	
1,2-Dibromoethane (EDB)	EPA 8260B	8E23029	4.0	10	ND	10	05/23/08	05/24/08	
1,3-Dichlorobenzene	EPA 8260B	8E23029	3.5	10	ND	10	05/23/08	05/24/08	
1,4-Dichlorobenzene	EPA 8260B	8E23029	3.7	10	ND	10	05/23/08	05/24/08	
1,2-Dichlorobenzene	EPA 8260B	8E23029	3.2	10	ND	10	05/23/08	05/24/08	
Dichlorodifluoromethane	EPA 8260B	8E23029	2.6	10	ND	10	05/23/08	05/24/08	
1,1-Dichloroethane	EPA 8260B	8E23029	4.0	10	**71**	10	05/23/08	05/24/08	
1,2-Dichloroethane	EPA 8260B	8E23029	2.8	5.0	**40**	10	05/23/08	05/24/08	
cis-1,2-Dichloroethene	EPA 8260B	8E23029	3.2	10	**120**	10	05/23/08	05/24/08	
1,1-Dichloroethene	EPA 8260B	8E23029	4.2	10	**150**	10	05/23/08	05/24/08	
trans-1,2-Dichloroethene	EPA 8260B	8E23029	3.0	10	**69**	10	05/23/08	05/24/08	

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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: IRE1711

Sampled: 05/20/08
Received: 05/20/08

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: IRE1711-05RE1 (EWB002_WG20080520_01 - Water) - cont.									
Reporting Units: ug/l									
2,2-Dichloropropane	EPA 8260B	8E23029	3.4	10	ND	10	05/23/08	05/24/08	
1,2-Dichloropropane	EPA 8260B	8E23029	3.5	10	ND	10	05/23/08	05/24/08	
cis-1,3-Dichloropropene	EPA 8260B	8E23029	2.2	5.0	ND	10	05/23/08	05/24/08	
1,1-Dichloropropene	EPA 8260B	8E23029	2.8	10	ND	10	05/23/08	05/24/08	
trans-1,3-Dichloropropene	EPA 8260B	8E23029	3.2	5.0	ND	10	05/23/08	05/24/08	
Di-isopropyl Ether (DIPE)	EPA 8260B	8E23029	2.5	20	**7.0**	10	05/23/08	05/24/08	Ja
Ethylbenzene	EPA 8260B	8E23029	2.5	10	**3.0**	10	05/23/08	05/24/08	Ja
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	8E23029	2.8	20	ND	10	05/23/08	05/24/08	
Hexachlorobutadiene	EPA 8260B	8E23029	3.8	10	ND	10	05/23/08	05/24/08	
2-Hexanone	EPA 8260B	8E23029	26	60	ND	10	05/23/08	05/24/08	
Iodomethane	EPA 8260B	8E23029	10	20	ND	10	05/23/08	05/24/08	
Isopropylbenzene	EPA 8260B	8E23029	2.5	10	ND	10	05/23/08	05/24/08	
p-Isopropyltoluene	EPA 8260B	8E23029	2.8	10	ND	10	05/23/08	05/24/08	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	8E23029	3.2	10	ND	10	05/23/08	05/24/08	
Methylene chloride	EPA 8260B	8E23029	9.5	10	ND	10	05/23/08	05/24/08	
4-Methyl-2-pentanone (MIBK)	EPA 8260B	8E23029	35	50	**750**	10	05/23/08	05/24/08	
n-Propylbenzene	EPA 8260B	8E23029	2.7	10	ND	10	05/23/08	05/24/08	
Styrene	EPA 8260B	8E23029	2.0	10	ND	10	05/23/08	05/24/08	
1,1,1,2-Tetrachloroethane	EPA 8260B	8E23029	2.7	10	ND	10	05/23/08	05/24/08	
1,1,2,2-Tetrachloroethane	EPA 8260B	8E23029	3.0	10	ND	10	05/23/08	05/24/08	
Tetrachloroethene	EPA 8260B	8E23029	3.2	10	ND	10	05/23/08	05/24/08	
Tetrahydrofuran (THF)	EPA 8260B	8E23029	35	100	ND	10	05/23/08	05/24/08	
1,2,3-Trichlorobenzene	EPA 8260B	8E23029	3.0	10	ND	10	05/23/08	05/24/08	
1,2,4-Trichlorobenzene	EPA 8260B	8E23029	4.8	10	ND	10	05/23/08	05/24/08	
1,1,1-Trichloroethane	EPA 8260B	8E23029	3.0	10	ND	10	05/23/08	05/24/08	
1,1,2-Trichloroethane	EPA 8260B	8E23029	3.0	10	ND	10	05/23/08	05/24/08	
Trichloroethene	EPA 8260B	8E23029	2.6	10	**2.8**	10	05/23/08	05/24/08	Ja
Trichlorofluoromethane	EPA 8260B	8E23029	3.4	20	ND	10	05/23/08	05/24/08	
1,2,3-Trichloropropane	EPA 8260B	8E23029	4.0	10	ND	10	05/23/08	05/24/08	
1,3,5-Trimethylbenzene	EPA 8260B	8E23029	2.6	10	ND	10	05/23/08	05/24/08	
1,2,4-Trimethylbenzene	EPA 8260B	8E23029	2.3	10	ND	10	05/23/08	05/24/08	
Vinyl acetate	EPA 8260B	8E23029	10	60	ND	10	05/23/08	05/24/08	
o-Xylene	EPA 8260B	8E23029	3.0	5.0	**5.2**	10	05/23/08	05/24/08	
Xylenes, Total	EPA 8260B	8E23029	9.0	10	**20**	10	05/23/08	05/24/08	
m,p-Xylenes	EPA 8260B	8E23029	6.0	10	**15**	10	05/23/08	05/24/08	
Surrogate: Dibromofluoromethane (80-120%)					*87 %*				
Surrogate: Toluene-d8 (80-120%)					*94 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)					*89 %*				

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BOE-C6-0188812

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: IRE1711

Sampled: 05/20/08
Received: 05/20/08

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: IRE1711-06 (EWB002_WG20080520_02 - Water)									
Reporting Units: ug/l									
Toluene	EPA 8260B	8E23029	9.0	25	**1900**	25	05/23/08	05/24/08	
Vinyl chloride	EPA 8260B	8E23029	10	12	**2900**	25	05/23/08	05/24/08	
Surrogate: Dibromofluoromethane (80-120%)					*89 %*				
Surrogate: Toluene-d8 (80-120%)					*94 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)					*88 %*				
Sample ID: IRE1711-06RE1 (EWB002_WG20080520_02 - Water)									
Reporting Units: ug/l									
Acetone	EPA 8260B	8E23029	22	50	**340**	5	05/23/08	05/24/08	
tert-Amyl Methyl Ether (TAME)	EPA 8260B	8E23029	1.6	10	ND	5	05/23/08	05/24/08	
Benzene	EPA 8260B	8E23029	1.4	2.5	**18**	5	05/23/08	05/24/08	
Bromobenzene	EPA 8260B	8E23029	1.4	5.0	ND	5	05/23/08	05/24/08	
Bromochloromethane	EPA 8260B	8E23029	2.0	5.0	ND	5	05/23/08	05/24/08	
Bromodichloromethane	EPA 8260B	8E23029	1.5	5.0	ND	5	05/23/08	05/24/08	
Bromoform	EPA 8260B	8E23029	2.0	5.0	ND	5	05/23/08	05/24/08	
Bromomethane	EPA 8260B	8E23029	2.1	5.0	ND	5	05/23/08	05/24/08	
tert-Butanol (TBA)	EPA 8260B	8E23029	32	120	ND	5	05/23/08	05/24/08	
2-Butanone (MEK)	EPA 8260B	8E23029	24	25	**740**	5	05/23/08	05/24/08	
tert-Butylbenzene	EPA 8260B	8E23029	1.1	5.0	ND	5	05/23/08	05/24/08	
n-Butylbenzene	EPA 8260B	8E23029	1.8	5.0	ND	5	05/23/08	05/24/08	
sec-Butylbenzene	EPA 8260B	8E23029	1.2	5.0	ND	5	05/23/08	05/24/08	
Carbon Disulfide	EPA 8260B	8E23029	2.4	5.0	ND	5	05/23/08	05/24/08	
Carbon tetrachloride	EPA 8260B	8E23029	1.4	2.5	ND	5	05/23/08	05/24/08	
Chlorobenzene	EPA 8260B	8E23029	1.8	5.0	ND	5	05/23/08	05/24/08	
Chloroethane	EPA 8260B	8E23029	2.0	10	**55**	5	05/23/08	05/24/08	
Chloroform	EPA 8260B	8E23029	1.6	5.0	ND	5	05/23/08	05/24/08	
Chloromethane	EPA 8260B	8E23029	2.0	10	ND	5	05/23/08	05/24/08	
2-Chlorotoluene	EPA 8260B	8E23029	1.4	5.0	ND	5	05/23/08	05/24/08	
4-Chlorotoluene	EPA 8260B	8E23029	1.4	5.0	ND	5	05/23/08	05/24/08	
1,2-Dibromo-3-chloropropane	EPA 8260B	8E23029	4.8	10	ND	5	05/23/08	05/24/08	
Dibromochloromethane	EPA 8260B	8E23029	2.0	5.0	ND	5	05/23/08	05/24/08	
1,2-Dibromoethane (EDB)	EPA 8260B	8E23029	2.0	5.0	ND	5	05/23/08	05/24/08	
1,3-Dichlorobenzene	EPA 8260B	8E23029	1.8	5.0	ND	5	05/23/08	05/24/08	
1,4-Dichlorobenzene	EPA 8260B	8E23029	1.8	5.0	ND	5	05/23/08	05/24/08	
1,2-Dichlorobenzene	EPA 8260B	8E23029	1.6	5.0	ND	5	05/23/08	05/24/08	
Dichlorodifluoromethane	EPA 8260B	8E23029	1.3	5.0	ND	5	05/23/08	05/24/08	
1,1-Dichloroethane	EPA 8260B	8E23029	2.0	5.0	**78**	5	05/23/08	05/24/08	
1,2-Dichloroethane	EPA 8260B	8E23029	1.4	2.5	**44**	5	05/23/08	05/24/08	
cis-1,2-Dichloroethene	EPA 8260B	8E23029	1.6	5.0	**130**	5	05/23/08	05/24/08	
1,1-Dichloroethene	EPA 8260B	8E23029	2.1	5.0	**170**	5	05/23/08	05/24/08	
trans-1,2-Dichloroethene	EPA 8260B	8E23029	1.5	5.0	**77**	5	05/23/08	05/24/08	

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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: IRE1711

Sampled: 05/20/08
Received: 05/20/08

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: IRE1711-06RE1 (EWB002_WG20080520_02 - Water) - cont.									
Reporting Units: ug/l									
2,2-Dichloropropane	EPA 8260B	8E23029	1.7	5.0	ND	5	05/23/08	05/24/08	
1,2-Dichloropropane	EPA 8260B	8E23029	1.8	5.0	ND	5	05/23/08	05/24/08	
cis-1,3-Dichloropropene	EPA 8260B	8E23029	1.1	2.5	ND	5	05/23/08	05/24/08	
1,1-Dichloropropene	EPA 8260B	8E23029	1.4	5.0	ND	5	05/23/08	05/24/08	
trans-1,3-Dichloropropene	EPA 8260B	8E23029	1.6	2.5	ND	5	05/23/08	05/24/08	
Di-isopropyl Ether (DIPE)	EPA 8260B	8E23029	1.2	10	**7.6**	5	05/23/08	05/24/08	Ja
Ethylbenzene	EPA 8260B	8E23029	1.2	5.0	**3.3**	5	05/23/08	05/24/08	Ja
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	8E23029	1.4	10	ND	5	05/23/08	05/24/08	
Hexachlorobutadiene	EPA 8260B	8E23029	1.9	5.0	ND	5	05/23/08	05/24/08	
2-Hexanone	EPA 8260B	8E23029	13	30	ND	5	05/23/08	05/24/08	
Iodomethane	EPA 8260B	8E23029	5.0	10	ND	5	05/23/08	05/24/08	
Isopropylbenzene	EPA 8260B	8E23029	1.2	5.0	ND	5	05/23/08	05/24/08	
p-Isopropyltoluene	EPA 8260B	8E23029	1.4	5.0	ND	5	05/23/08	05/24/08	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	8E23029	1.6	5.0	ND	5	05/23/08	05/24/08	
Methylene chloride	EPA 8260B	8E23029	4.8	5.0	ND	5	05/23/08	05/24/08	
4-Methyl-2-pentanone (MIBK)	EPA 8260B	8E23029	18	25	**840**	5	05/23/08	05/24/08	
n-Propylbenzene	EPA 8260B	8E23029	1.4	5.0	ND	5	05/23/08	05/24/08	
Styrene	EPA 8260B	8E23029	1.0	5.0	ND	5	05/23/08	05/24/08	
1,1,1,2-Tetrachloroethane	EPA 8260B	8E23029	1.4	5.0	ND	5	05/23/08	05/24/08	
1,1,2,2-Tetrachloroethane	EPA 8260B	8E23029	1.5	5.0	ND	5	05/23/08	05/24/08	
Tetrachloroethene	EPA 8260B	8E23029	1.6	5.0	ND	5	05/23/08	05/24/08	
Tetrahydrofuran (THF)	EPA 8260B	8E23029	18	50	ND	5	05/23/08	05/24/08	
1,2,3-Trichlorobenzene	EPA 8260B	8E23029	1.5	5.0	ND	5	05/23/08	05/24/08	
1,2,4-Trichlorobenzene	EPA 8260B	8E23029	2.4	5.0	ND	5	05/23/08	05/24/08	
1,1,1-Trichloroethane	EPA 8260B	8E23029	1.5	5.0	ND	5	05/23/08	05/24/08	
1,1,2-Trichloroethane	EPA 8260B	8E23029	1.5	5.0	**2.7**	5	05/23/08	05/24/08	Ja
Trichloroethene	EPA 8260B	8E23029	1.3	5.0	**3.4**	5	05/23/08	05/24/08	Ja
Trichlorofluoromethane	EPA 8260B	8E23029	1.7	10	ND	5	05/23/08	05/24/08	
1,2,3-Trichloropropane	EPA 8260B	8E23029	2.0	5.0	ND	5	05/23/08	05/24/08	
1,3,5-Trimethylbenzene	EPA 8260B	8E23029	1.3	5.0	ND	5	05/23/08	05/24/08	
1,2,4-Trimethylbenzene	EPA 8260B	8E23029	1.2	5.0	ND	5	05/23/08	05/24/08	
Vinyl acetate	EPA 8260B	8E23029	5.0	30	ND	5	05/23/08	05/24/08	
o-Xylene	EPA 8260B	8E23029	1.5	2.5	**5.5**	5	05/23/08	05/24/08	
Xylenes, Total	EPA 8260B	8E23029	4.5	5.0	**22**	5	05/23/08	05/24/08	
m,p-Xylenes	EPA 8260B	8E23029	3.0	5.0	**16**	5	05/23/08	05/24/08	
Surrogate: Dibromofluoromethane (80-120%)					*91 %*				
Surrogate: Toluene-d8 (80-120%)					*94 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)					*90 %*				

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Project Manager

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BOE-C6-0188813

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: IRE1711

Sampled: 05/20/08
Received: 05/20/08

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

Sample ID: IRE1711-07 (TB_AVO20080520_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	8E23021	4.5	10	ND	1	05/23/08	05/23/08	
tert-Amyl Methyl Ether (TAME)	EPA 8260B	8E23021	0.33	2.0	ND	1	05/23/08	05/23/08	
Benzene	EPA 8260B	8E23021	0.28	0.50	ND	1	05/23/08	05/23/08	
Bromobenzene	EPA 8260B	8E23021	0.27	1.0	ND	1	05/23/08	05/23/08	
Bromochloromethane	EPA 8260B	8E23021	0.40	1.0	ND	1	05/23/08	05/23/08	
Bromodichloromethane	EPA 8260B	8E23021	0.30	1.0	ND	1	05/23/08	05/23/08	
Bromoform	EPA 8260B	8E23021	0.40	1.0	ND	1	05/23/08	05/23/08	
Bromomethane	EPA 8260B	8E23021	0.42	1.0	ND	1	05/23/08	05/23/08	
tert-Butanol (TBA)	EPA 8260B	8E23021	6.5	25	ND	1	05/23/08	05/23/08	
2-Butanone (MEK)	EPA 8260B	8E23021	4.7	5.0	ND	1	05/23/08	05/23/08	
tert-Butylbenzene	EPA 8260B	8E23021	0.22	1.0	ND	1	05/23/08	05/23/08	
n-Butylbenzene	EPA 8260B	8E23021	0.37	1.0	ND	1	05/23/08	05/23/08	
sec-Butylbenzene	EPA 8260B	8E23021	0.25	1.0	ND	1	05/23/08	05/23/08	
Carbon Disulfide	EPA 8260B	8E23021	0.48	1.0	ND	1	05/23/08	05/23/08	
Carbon tetrachloride	EPA 8260B	8E23021	0.28	0.50	ND	1	05/23/08	05/23/08	
Chlorobenzene	EPA 8260B	8E23021	0.36	1.0	ND	1	05/23/08	05/23/08	
Chloroethane	EPA 8260B	8E23021	0.40	2.0	ND	1	05/23/08	05/23/08	
Chloroform	EPA 8260B	8E23021	0.33	1.0	ND	1	05/23/08	05/23/08	
Chloromethane	EPA 8260B	8E23021	0.40	2.0	ND	1	05/23/08	05/23/08	
2-Chlorotoluene	EPA 8260B	8E23021	0.28	1.0	ND	1	05/23/08	05/23/08	
4-Chlorotoluene	EPA 8260B	8E23021	0.29	1.0	ND	1	05/23/08	05/23/08	
1,2-Dibromo-3-chloropropane	EPA 8260B	8E23021	0.97	2.0	ND	1	05/23/08	05/23/08	
Dibromochloromethane	EPA 8260B	8E23021	0.40	1.0	ND	1	05/23/08	05/23/08	
1,2-Dibromoethane (EDB)	EPA 8260B	8E23021	0.40	1.0	ND	1	05/23/08	05/23/08	
1,3-Dichlorobenzene	EPA 8260B	8E23021	0.35	1.0	ND	1	05/23/08	05/23/08	
1,4-Dichlorobenzene	EPA 8260B	8E23021	0.37	1.0	ND	1	05/23/08	05/23/08	
1,2-Dichlorobenzene	EPA 8260B	8E23021	0.32	1.0	ND	1	05/23/08	05/23/08	
Dichlorodifluoromethane	EPA 8260B	8E23021	0.26	1.0	ND	1	05/23/08	05/23/08	
1,1-Dichloroethane	EPA 8260B	8E23021	0.40	1.0	ND	1	05/23/08	05/23/08	
1,2-Dichloroethane	EPA 8260B	8E23021	0.28	0.50	ND	1	05/23/08	05/23/08	
cis-1,2-Dichloroethene	EPA 8260B	8E23021	0.32	1.0	ND	1	05/23/08	05/23/08	
1,1-Dichloroethene	EPA 8260B	8E23021	0.42	1.0	ND	1	05/23/08	05/23/08	
trans-1,2-Dichloroethene	EPA 8260B	8E23021	0.30	1.0	ND	1	05/23/08	05/23/08	
2,2-Dichloropropane	EPA 8260B	8E23021	0.34	1.0	ND	1	05/23/08	05/23/08	
1,2-Dichloropropane	EPA 8260B	8E23021	0.35	1.0	ND	1	05/23/08	05/23/08	
cis-1,3-Dichloropropene	EPA 8260B	8E23021	0.22	0.50	ND	1	05/23/08	05/23/08	
1,1-Dichloropropene	EPA 8260B	8E23021	0.28	1.0	ND	1	05/23/08	05/23/08	
trans-1,3-Dichloropropene	EPA 8260B	8E23021	0.32	0.50	ND	1	05/23/08	05/23/08	
Di-isopropyl Ether (DIPE)	EPA 8260B	8E23021	0.25	2.0	ND	1	05/23/08	05/23/08	
Ethylbenzene	EPA 8260B	8E23021	0.25	1.0	ND	1	05/23/08	05/23/08	
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	8E23021	0.28	2.0	ND	1	05/23/08	05/23/08	

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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: IRE1711

Sampled: 05/20/08
Received: 05/20/08

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

Sample ID: IRE1711-07 (TB_AVO20080520_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	8E23021	0.38	1.0	ND	1	05/23/08	05/23/08	
2-Hexanone	EPA 8260B	8E23021	2.6	6.0	ND	1	05/23/08	05/23/08	
Iodomethane	EPA 8260B	8E23021	1.0	2.0	ND	1	05/23/08	05/23/08	
Isopropylbenzene	EPA 8260B	8E23021	0.25	1.0	ND	1	05/23/08	05/23/08	
p-Isopropyltoluene	EPA 8260B	8E23021	0.28	1.0	ND	1	05/23/08	05/23/08	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	8E23021	0.32	1.0	ND	1	05/23/08	05/23/08	
Methylene chloride	EPA 8260B	8E23021	0.95	1.0	ND	1	05/23/08	05/23/08	
4-Methyl-2-pentanone (MIBK)	EPA 8260B	8E23021	3.5	5.0	ND	1	05/23/08	05/23/08	
n-Propylbenzene	EPA 8260B	8E23021	0.27	1.0	ND	1	05/23/08	05/23/08	
Styrene	EPA 8260B	8E23021	0.20	1.0	ND	1	05/23/08	05/23/08	
1,1,1,2-Tetrachloroethane	EPA 8260B	8E23021	0.27	1.0	ND	1	05/23/08	05/23/08	
1,1,2,2-Tetrachloroethane	EPA 8260B	8E23021	0.30	1.0	ND	1	05/23/08	05/23/08	
Tetrachloroethene	EPA 8260B	8E23021	0.32	1.0	ND	1	05/23/08	05/23/08	
Tetrahydrofuran (THF)	EPA 8260B	8E23021	3.5	10	ND	1	05/23/08	05/23/08	
Toluene	EPA 8260B	8E23021	0.36	1.0	ND	1	05/23/08	05/23/08	
1,2,3-Trichlorobenzene	EPA 8260B	8E23021	0.30	1.0	ND	1	05/23/08	05/23/08	
1,2,4-Trichlorobenzene	EPA 8260B	8E23021	0.48	1.0	ND	1	05/23/08	05/23/08	
1,1,1-Trichloroethane	EPA 8260B	8E23021	0.30	1.0	ND	1	05/23/08	05/23/08	
1,1,2-Trichloroethane	EPA 8260B	8E23021	0.30	1.0	ND	1	05/23/08	05/23/08	
Trichloroethene	EPA 8260B	8E23021	0.26	1.0	ND	1	05/23/08	05/23/08	
Trichlorofluoromethane	EPA 8260B	8E23021	0.34	2.0	ND	1	05/23/08	05/23/08	
1,2,3-Trichloropropane	EPA 8260B	8E23021	0.40	1.0	ND	1	05/23/08	05/23/08	
1,3,5-Trimethylbenzene	EPA 8260B	8E23021	0.26	1.0	ND	1	05/23/08	05/23/08	
1,2,4-Trimethylbenzene	EPA 8260B	8E23021	0.23	1.0	ND	1	05/23/08	05/23/08	
Vinyl acetate	EPA 8260B	8E23021	1.0	6.0	ND	1	05/23/08	05/23/08	
Vinyl chloride	EPA 8260B	8E23021	0.40	0.50	ND	1	05/23/08	05/23/08	
o-Xylene	EPA 8260B	8E23021	0.30	0.50	ND	1	05/23/08	05/23/08	
Xylenes, Total	EPA 8260B	8E23021	0.90	1.0	ND	1	05/23/08	05/23/08	
m,p-Xylenes	EPA 8260B	8E23021	0.60	1.0	ND	1	05/23/08	05/23/08	
Surrogate: Dibromofluoromethane (80-120%)					*88 %*				
Surrogate: Toluene-d8 (80-120%)					*91 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)					*89 %*				

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Avocet Environmental Inc.
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Project ID: Boeing C-6 Torrance (02/26/08)
1155.006
Report Number: IRE1711

Sampled: 05/20/08
Received: 05/20/08

INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRE1711-01 (AW0073C_WG20080520_01 - Water)									
Reporting Units: mg/l									
Alkalinity as CaCO3	EPA 310.1	8E21057	2.0	2.0	**220**	1	05/21/08	05/21/08	
Chloride	EPA 300.0	8E20056	5.0	10	**110**	20	05/20/08	05/20/08	
Nitrate-NO3	EPA 300.0	8E20056	0.25	0.50	ND	1	05/20/08	05/20/08	
Nitrite-NO2	EPA 300.0	8E20056	0.30	0.50	ND	1	05/20/08	05/20/08	
Sulfate	EPA 300.0	8E20056	0.20	0.50	**6.8**	1	05/20/08	05/20/08	
Sample ID: IRE1711-02 (AW0075UB_WG20080520_01 - Water)									
Reporting Units: mg/l									
Alkalinity as CaCO3	EPA 310.1	8E21057	2.0	2.0	**750**	1	05/21/08	05/21/08	
Chloride	EPA 300.0	8E20056	5.0	10	**550**	20	05/20/08	05/20/08	
Nitrate-NO3	EPA 300.0	8E20056	0.25	0.50	ND	1	05/20/08	05/20/08	
Nitrite-NO2	EPA 300.0	8E20056	6.0	10	ND	20	05/20/08	05/20/08	RL1
Sulfate	EPA 300.0	8E20056	0.20	0.50	ND	1	05/20/08	05/20/08	
Sample ID: IRE1711-03 (AW0076UB_WG20080520_01 - Water)									
Reporting Units: mg/l									
Alkalinity as CaCO3	EPA 310.1	8E21057	2.0	2.0	**820**	1	05/21/08	05/21/08	
Chloride	EPA 300.0	8E21053	25	50	**690**	100	05/21/08	05/21/08	
Nitrate-NO3	EPA 300.0	8E20056	0.25	0.50	ND	1	05/20/08	05/20/08	
Nitrite-NO2	EPA 300.0	8E20056	6.0	10	ND	20	05/20/08	05/20/08	RL1
Sulfate	EPA 300.0	8E20056	0.20	0.50	**0.41**	1	05/20/08	05/20/08	Ja
Sample ID: IRE1711-04 (AW0077UB_WG20080520_01 - Water)									
Reporting Units: mg/l									
Alkalinity as CaCO3	EPA 310.1	8E21057	2.0	2.0	**740**	1	05/21/08	05/21/08	
Chloride	EPA 300.0	8E20056	5.0	10	**540**	20	05/20/08	05/20/08	
Nitrate-NO3	EPA 300.0	8E20056	0.25	0.50	ND	1	05/20/08	05/20/08	
Nitrite-NO2	EPA 300.0	8E20056	6.0	10	ND	20	05/20/08	05/20/08	RL1
Sulfate	EPA 300.0	8E20056	0.20	0.50	**0.66**	1	05/20/08	05/20/08	
Sample ID: IRE1711-05 (EWB002_WG20080520_01 - Water)									
Reporting Units: mg/l									
Alkalinity as CaCO3	EPA 310.1	8E21057	2.0	2.0	**840**	1	05/21/08	05/21/08	
Chloride	EPA 300.0	8E20056	5.0	10	**520**	20	05/20/08	05/20/08	
Nitrate-NO3	EPA 300.0	8E20056	0.25	0.50	ND	1	05/20/08	05/20/08	
Nitrite-NO2	EPA 300.0	8E20056	6.0	10	ND	20	05/20/08	05/20/08	RL1
Sulfate	EPA 300.0	8E20056	0.20	0.50	**0.61**	1	05/20/08	05/20/08	

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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: IRE1711

Sampled: 05/20/08
Received: 05/20/08

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: IRE1711-01 (AW0073C_WG20080520_01 - Water)									
Reporting Units: mg/l									
Total Organic Carbon	EPA 9060A MOD.	8E21091	5.0	10	**100**	10	05/21/08	05/22/08	
Sample ID: IRE1711-02 (AW0075UB_WG20080520_01 - Water)									
Reporting Units: mg/l									
Total Organic Carbon	EPA 9060A MOD.	8E21091	5.0	10	**400**	10	05/21/08	05/22/08	
Sample ID: IRE1711-03 (AW0076UB_WG20080520_01 - Water)									
Reporting Units: mg/l									
Total Organic Carbon	EPA 9060A MOD.	8E22106	10	20	**470**	20	05/22/08	05/22/08	
Sample ID: IRE1711-04 (AW0077UB_WG20080520_01 - Water)									
Reporting Units: mg/l									
Total Organic Carbon	EPA 9060A MOD.	8E21091	5.0	10	**350**	10	05/21/08	05/22/08	
Sample ID: IRE1711-05 (EWB002_WG20080520_01 - Water)									
Reporting Units: mg/l									
Total Organic Carbon	EPA 9060A MOD.	8E21091	5.0	10	**200**	10	05/21/08	05/22/08	

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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: IRE1711

Sampled: 05/20/08
Received: 05/20/08

RSK175 Dissolved Gases in Water

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRE1711-01 (AW0073C_WG20080520_01 - Water)									
Reporting Units: ug/L									
Methane	RSK-175	080528G28A	0.39	1.0	**3600**	1	05/28/08	05/28/08	
Ethane	RSK-175	080528G28A	0.50	1.0	ND	1	05/28/08	05/28/08	
Ethylene	RSK-175	080528G28A	0.33	1.0	**3.70**	1	05/28/08	05/28/08	
Sample ID: IRE1711-02 (AW0075UB_WG20080520_01 - Water)									
Reporting Units: ug/L									
Methane	RSK-175	080528G28A	0.39	1.0	**2600**	1	05/28/08	05/28/08	
Ethane	RSK-175	080528G28A	0.50	1.0	ND	1	05/28/08	05/28/08	
Ethylene	RSK-175	080528G28A	0.33	1.0	**20**	1	05/28/08	05/28/08	
Sample ID: IRE1711-03 (AW0076UB_WG20080520_01 - Water)									
Reporting Units: ug/L									
Methane	RSK-175	080528G28A	0.39	1.0	**3000**	1	05/28/08	05/28/08	
Ethane	RSK-175	080528G28A	0.50	1.0	ND	1	05/28/08	05/28/08	
Ethylene	RSK-175	080528G28A	0.33	1.0	**56**	1	05/28/08	05/28/08	
Sample ID: IRE1711-04 (AW0077UB_WG20080520_01 - Water)									
Reporting Units: ug/L									
Methane	RSK-175	080528G28A	0.39	1.0	**10000**	1	05/28/08	05/28/08	
Ethane	RSK-175	080528G28A	0.50	1.0	ND	1	05/28/08	05/28/08	
Ethylene	RSK-175	080528G28A	0.33	1.0	**120**	1	05/28/08	05/28/08	
Sample ID: IRE1711-05 (EWB002_WG20080520_01 - Water)									
Reporting Units: ug/L									
Methane	RSK-175	080528G28A	0.39	1.0	**12000**	1	05/28/08	05/28/08	
Ethane	RSK-175	080528G28A	0.50	1.0	ND	1	05/28/08	05/28/08	
Ethylene	RSK-175	080528G28A	0.33	1.0	**14**	1	05/28/08	05/28/08	

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Project ID: Boeing C-6 Torrance (02/26/08)
1155.006
Report Number: IRE1711

Sampled: 05/20/08
Received: 05/20/08

qPCR TaqMan assay

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRE1711-01 (AW0073C_WG20080520_01 - Water)									
Reporting Units: gene copies/L ground									
16s rRNA DHC sp.	qPCR TaqMan assay	1	2	50	**2.52E+08**	1	05/21/08	05/26/08	
bvcA	qPCR TaqMan assay	1	2	50	**3.20E+07**	1	05/21/08	05/27/08	
tceA	qPCR TaqMan assay	1	2	50	**7.65E+07**	1	05/21/08	05/27/08	
vcrA	qPCR TaqMan assay	1	2	50	ND	1	05/21/08	05/27/08	
Sample ID: IRE1711-02 (AW0075UB_WG20080520_01 - Water)									
Reporting Units: gene copies/L ground									
16s rRNA DHC sp.	qPCR TaqMan assay	1	2	50	**6.33E+08**	1	05/21/08	05/26/08	
bvcA	qPCR TaqMan assay	1	2	50	**8.00E+07**	1	05/21/08	05/27/08	
tceA	qPCR TaqMan assay	1	2	50	**2.59E+08**	1	05/21/08	05/27/08	
vcrA	qPCR TaqMan assay	1	2	50	ND	1	05/21/08	05/27/08	
Sample ID: IRE1711-03 (AW0076UB_WG20080520_01 - Water)									
Reporting Units: gene copies/L ground									
16s rRNA DHC sp.	qPCR TaqMan assay	1	2	50	**2.61E+08**	1	05/21/08	05/26/08	
bvcA	qPCR TaqMan assay	1	2	50	**3.40E+07**	1	05/21/08	05/27/08	
tceA	qPCR TaqMan assay	1	2	50	**7.66E+07**	1	05/21/08	05/27/08	
vcrA	qPCR TaqMan assay	1	2	50	ND	1	05/21/08	05/27/08	
Sample ID: IRE1711-04 (AW0077UB_WG20080520_01 - Water)									
Reporting Units: gene copies/L ground									
16s rRNA DHC sp.	qPCR TaqMan assay	1	2	50	**2.73E+09**	1	05/21/08	05/26/08	
bvcA	qPCR TaqMan assay	1	2	50	**4.70E+08**	1	05/21/08	05/27/08	
tceA	qPCR TaqMan assay	1	2	50	**3.91E+08**	1	05/21/08	05/27/08	
vcrA	qPCR TaqMan assay	1	2	50	ND	1	05/21/08	05/27/08	
Sample ID: IRE1711-05 (EWB002_WG20080520_01 - Water)									
Reporting Units: gene copies/L ground									
16s rRNA DHC sp.	qPCR TaqMan assay	1	2	50	**2.77E+08**	1	05/21/08	05/26/08	
bvcA	qPCR TaqMan assay	1	2	50	**1.50E+07**	1	05/21/08	05/27/08	
tceA	qPCR TaqMan assay	1	2	50	**1.60E+08**	1	05/21/08	05/27/08	
vcrA	qPCR TaqMan assay	1	2	50	ND	1	05/21/08	05/27/08	

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Irvine, CA 92618
Attention: Michael Rendina

Project ID: Boeing C-6 Torrance (02/26/08)
1155.006
Report Number: IRE1711

Sampled: 05/20/08
Received: 05/20/08

Universal Bacterial PCR

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRE1711-01 (AW0073C_WG20080520_01 - Water)									
Reporting Units: NONE									
16s rRNA	Universal Bacterial PCR	1	N/A	NA	**Positive**	1	05/21/08	05/23/08	
Sample ID: IRE1711-02 (AW0075UB_WG20080520_01 - Water)									
Reporting Units: NONE									
16s rRNA	Universal Bacterial PCR	1	N/A	NA	**Positive**	1	05/21/08	05/23/08	
Sample ID: IRE1711-03 (AW0076UB_WG20080520_01 - Water)									
Reporting Units: NONE									
16s rRNA	Universal Bacterial PCR	1	N/A	NA	**Positive**	1	05/21/08	05/23/08	
Sample ID: IRE1711-04 (AW0077UB_WG20080520_01 - Water)									
Reporting Units: NONE									
16s rRNA	Universal Bacterial PCR	1	N/A	NA	**Positive**	1	05/21/08	05/23/08	
Sample ID: IRE1711-05 (EWB002_WG20080520_01 - Water)									
Reporting Units: NONE									
16s rRNA	Universal Bacterial PCR	1	N/A	NA	**Positive**	1	05/21/08	05/23/08	

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Attention: Michael Rendina

Project ID: Boeing C-6 Torrance (02/26/08)
1155.006
Report Number: IRE1711

Sampled: 05/20/08
Received: 05/20/08

SHORT HOLD TIME DETAIL REPORT

	Hold Time (in days)	Date/Time Sampled	Date/Time Received	Date/Time Extracted	Date/Time Analyzed
Sample ID: AW0073C_WG20080520_01 (IRE1711-01) - Water					
EPA 300.0	2	05/20/2008 09:58	05/20/2008 15:50	05/20/2008 19:00	05/20/2008 19:24
Sample ID: AW0075UB_WG20080520_01 (IRE1711-02) - Water					
EPA 300.0	2	05/20/2008 08:45	05/20/2008 15:50	05/20/2008 19:00	05/20/2008 19:44
Nitrite-NO2				05/20/2008 19:00	05/20/2008 21:11
Sample ID: AW0076UB_WG20080520_01 (IRE1711-03) - Water					
EPA 300.0	2	05/20/2008 14:23	05/20/2008 15:50	05/20/2008 19:00	05/20/2008 19:57
Nitrite-NO2				05/20/2008 19:00	05/20/2008 21:23
Sample ID: AW0077UB_WG20080520_01 (IRE1711-04) - Water					
EPA 300.0	2	05/20/2008 11:09	05/20/2008 15:50	05/20/2008 19:00	05/20/2008 20:09
Nitrite-NO2				05/20/2008 19:00	05/20/2008 22:00
Sample ID: EWB002_WG20080520_01 (IRE1711-05) - Water					
EPA 300.0	2	05/20/2008 13:22	05/20/2008 15:50	05/20/2008 19:00	05/20/2008 20:21

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BOE-C6-0188817

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: IRE1711

Sampled: 05/20/08
Received: 05/20/08

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: 8E23021 Extracted: 05/23/08											
Blank Analyzed: 05/23/2008 (8E23021-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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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: IRE1711

Sampled: 05/20/08
Received: 05/20/08

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: 8E23021 Extracted: 05/23/08											
Blank Analyzed: 05/23/2008 (8E23021-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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BOE-C6-0188818

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: IRE1711

Sampled: 05/20/08
Received: 05/20/08

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: 8E23021 Extracted: 05/23/08											
Blank Analyzed: 05/23/2008 (8E23021-BLK1)											
Surrogate: Dibromofluoromethane	*22.0*			*ug/l*	*25.0*		*88*	*80-120*			
Surrogate: Toluene-d8	*23.1*			*ug/l*	*25.0*		*92*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*22.5*			*ug/l*	*25.0*		*90*	*80-120*			
LCS Analyzed: 05/23/2008 (8E23021-BS1)											
Acetone	17.6	10	4.5	ug/l	25.0		70	30-140			
tert-Amyl Methyl Ether (TAME)	25.3	2.0	0.33	ug/l	25.0		101	60-135			
Benzene	22.1	0.50	0.28	ug/l	25.0		88	70-120			
Bromobenzene	24.4	1.0	0.27	ug/l	25.0		98	75-120			
Bromochloromethane	24.3	1.0	0.40	ug/l	25.0		97	70-130			
Bromodichloromethane	27.8	1.0	0.30	ug/l	25.0		111	70-135			
Bromoform	24.9	1.0	0.40	ug/l	25.0		100	55-130			
Bromomethane	23.3	1.0	0.42	ug/l	25.0		93	65-140			
tert-Butanol (TBA)	133	25	6.5	ug/l	125		106	70-135			
2-Butanone (MEK)	19.3	5.0	4.7	ug/l	25.0		77	40-140			
tert-Butylbenzene	25.5	1.0	0.22	ug/l	25.0		102	70-125			
n-Butylbenzene	25.1	1.0	0.37	ug/l	25.0		100	70-130			
sec-Butylbenzene	24.9	1.0	0.25	ug/l	25.0		100	70-125			
Carbon Disulfide	21.8	1.0	0.48	ug/l	25.0		87	50-130			
Carbon tetrachloride	31.2	0.50	0.28	ug/l	25.0		125	65-140			
Chlorobenzene	23.7	1.0	0.36	ug/l	25.0		95	75-120			
Chloroethane	22.0	2.0	0.40	ug/l	25.0		88	60-140			
Chloroform	24.8	1.0	0.33	ug/l	25.0		99	70-130			
Chloromethane	17.1	2.0	0.40	ug/l	25.0		69	50-140			
2-Chlorotoluene	24.6	1.0	0.28	ug/l	25.0		99	70-125			
4-Chlorotoluene	25.4	1.0	0.29	ug/l	25.0		102	75-125			
1,2-Dibromo-3-chloropropane	22.9	2.0	0.97	ug/l	25.0		91	50-135			
Dibromochloromethane	26.3	1.0	0.40	ug/l	25.0		105	70-140			
1,2-Dibromoethane (EDB)	24.8	1.0	0.40	ug/l	25.0		99	75-125			
1,3-Dichlorobenzene	25.1	1.0	0.35	ug/l	25.0		101	75-120			
1,4-Dichlorobenzene	22.5	1.0	0.37	ug/l	25.0		90	75-120			
1,2-Dichlorobenzene	25.3	1.0	0.32	ug/l	25.0		101	75-120			
Dichlorodifluoromethane	20.1	1.0	0.26	ug/l	25.0		80	35-155			
1,1-Dichloroethane	23.6	1.0	0.40	ug/l	25.0		94	70-125			
1,2-Dichloroethane	26.6	0.50	0.28	ug/l	25.0		107	60-140			
cis-1,2-Dichloroethene	21.6	1.0	0.32	ug/l	25.0		86	70-125			

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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: IRE1711

Sampled: 05/20/08
Received: 05/20/08

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: 8E23021 Extracted: 05/23/08											
LCS Analyzed: 05/23/2008 (8E23021-BS1)											
1,1-Dichloroethene	20.1	1.0	0.42	ug/l	25.0		80	70-125			
trans-1,2-Dichloroethene	22.2	1.0	0.30	ug/l	25.0		89	70-125			
2,2-Dichloropropane	31.3	1.0	0.34	ug/l	25.0		125	65-140			
1,2-Dichloropropane	21.6	1.0	0.35	ug/l	25.0		86	70-125			
cis-1,3-Dichloropropene	22.6	0.50	0.22	ug/l	25.0		91	75-125			
1,1-Dichloropropene	23.8	1.0	0.28	ug/l	25.0		95	75-130			
trans-1,3-Dichloropropene	24.8	0.50	0.32	ug/l	25.0		99	70-125			
Di-isopropyl Ether (DIPE)	20.9	2.0	0.25	ug/l	25.0		84	60-135			
Ethylbenzene	25.7	1.0	0.25	ug/l	25.0		103	75-125			
Ethyl tert-Butyl Ether (ETBE)	24.4	2.0	0.28	ug/l	25.0		98	65-135			
Hexachlorobutadiene	26.8	1.0	0.38	ug/l	25.0		107	65-135			
2-Hexanone	18.3	6.0	2.6	ug/l	25.0		73	45-140			
Isopropylbenzene	29.5	1.0	0.25	ug/l	25.0		118	75-130			
p-Isopropyltoluene	25.6	1.0	0.28	ug/l	25.0		103	75-125			
Methyl-tert-butyl Ether (MTBE)	24.8	1.0	0.32	ug/l	25.0		99	60-135			
Methylene chloride	19.2	1.0	0.95	ug/l	25.0		77	55-130			
4-Methyl-2-pentanone (MIBK)	19.1	5.0	3.5	ug/l	25.0		76	45-140			
n-Propylbenzene	25.6	1.0	0.27	ug/l	25.0		102	75-130			
Styrene	26.6	1.0	0.20	ug/l	25.0		106	75-130			
1,1,1,2-Tetrachloroethane	28.7	1.0	0.27	ug/l	25.0		115	70-130			
1,1,2,2-Tetrachloroethane	21.1	1.0	0.30	ug/l	25.0		84	55-130			
Tetrachloroethene	26.0	1.0	0.32	ug/l	25.0		104	70-125			
Toluene	23.7	1.0	0.36	ug/l	25.0		95	70-120			
1,2,3-Trichlorobenzene	25.2	1.0	0.30	ug/l	25.0		101	65-125			
1,2,4-Trichlorobenzene	27.0	1.0	0.48	ug/l	25.0		108	70-135			
1,1,1-Trichloroethane	28.7	1.0	0.30	ug/l	25.0		115	65-135			
1,1,2-Trichloroethane	22.5	1.0	0.30	ug/l	25.0		90	70-125			
Trichloroethene	24.1	1.0	0.26	ug/l	25.0		97	70-125			
Trichlorofluoromethane	28.9	2.0	0.34	ug/l	25.0		115	65-145			
1,2,3-Trichloropropane	23.3	1.0	0.40	ug/l	25.0		93	60-130			
1,3,5-Trimethylbenzene	27.2	1.0	0.26	ug/l	25.0		109	75-125			
1,2,4-Trimethylbenzene	26.6	1.0	0.23	ug/l	25.0		106	75-125			
Vinyl acetate	22.6	6.0	1.0	ug/l	25.0		90	45-145			
Vinyl chloride	21.2	0.50	0.40	ug/l	25.0		85	55-135			
o-Xylene	25.2	0.50	0.30	ug/l	25.0		101	75-125			

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BOE-C6-0188819

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: IRE1711

Sampled: 05/20/08
Received: 05/20/08

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: 8E23021 Extracted: 05/23/08											
LCS Analyzed: 05/23/2008 (8E23021-BS1)											
m,p-Xylenes	50.6	1.0	0.60	ug/l	50.0		101	75-125			
Surrogate: Dibromofluoromethane	*22.8*			*ug/l*	*25.0*		*91*	*80-120*			
Surrogate: Toluene-d8	*23.3*			*ug/l*	*25.0*		*93*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*23.6*			*ug/l*	*25.0*		*94*	*80-120*			
Matrix Spike Analyzed: 05/23/2008 (8E23021-MS1)						**Source: IRE1966-02**					
Acetone	20.3	10	4.5	ug/l	25.0	ND	81	20-150			
tert-Amyl Methyl Ether (TAME)	26.4	2.0	0.33	ug/l	25.0	ND	106	60-140			
Benzene	23.1	0.50	0.28	ug/l	25.0	ND	93	65-125			
Bromobenzene	25.2	1.0	0.27	ug/l	25.0	ND	101	70-125			
Bromochloromethane	26.0	1.0	0.40	ug/l	25.0	ND	104	65-135			
Bromodichloromethane	29.8	1.0	0.30	ug/l	25.0	ND	119	70-135			
Bromoform	26.0	1.0	0.40	ug/l	25.0	ND	104	55-135			
Bromomethane	25.3	1.0	0.42	ug/l	25.0	ND	101	55-145			
tert-Butanol (TBA)	141	25	6.5	ug/l	125	ND	113	65-140			
2-Butanone (MEK)	20.0	5.0	4.7	ug/l	25.0	ND	80	30-145			
tert-Butylbenzene	26.3	1.0	0.22	ug/l	25.0	ND	105	65-130			
n-Butylbenzene	25.7	1.0	0.37	ug/l	25.0	ND	103	65-135			
sec-Butylbenzene	25.4	1.0	0.25	ug/l	25.0	ND	101	70-125			
Carbon Disulfide	23.5	1.0	0.48	ug/l	25.0	ND	94	40-140			
Carbon tetrachloride	33.6	0.50	0.28	ug/l	25.0	ND	134	65-140			
Chlorobenzene	24.3	1.0	0.36	ug/l	25.0	ND	97	75-125			
Chloroethane	23.5	2.0	0.40	ug/l	25.0	ND	94	55-140			
Chloroform	26.5	1.0	0.33	ug/l	25.0	ND	106	65-135			
Chloromethane	19.2	2.0	0.40	ug/l	25.0	ND	77	45-145			
2-Chlorotoluene	25.5	1.0	0.28	ug/l	25.0	ND	102	65-135			
4-Chlorotoluene	26.1	1.0	0.29	ug/l	25.0	ND	105	70-135			
1,2-Dibromo-3-chloropropane	24.0	2.0	0.97	ug/l	25.0	ND	96	45-145			
Dibromochloromethane	27.7	1.0	0.40	ug/l	25.0	ND	111	65-140			
1,2-Dibromoethane (EDB)	26.4	1.0	0.40	ug/l	25.0	ND	105	70-130			
1,3-Dichlorobenzene	25.6	1.0	0.35	ug/l	25.0	ND	102	75-125			
1,4-Dichlorobenzene	23.3	1.0	0.37	ug/l	25.0	ND	93	75-125			
1,2-Dichlorobenzene	25.9	1.0	0.32	ug/l	25.0	ND	103	75-125			
Dichlorodifluoromethane	25.4	1.0	0.26	ug/l	25.0	ND	102	25-155			
1,1-Dichloroethane	24.9	1.0	0.40	ug/l	25.0	ND	100	65-130			
1,2-Dichloroethane	29.2	0.50	0.28	ug/l	25.0	ND	117	60-140			

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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: IRE1711

Sampled: 05/20/08
Received: 05/20/08

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: 8E23021 Extracted: 05/23/08											
Matrix Spike Analyzed: 05/23/2008 (8E23021-MS1)						**Source: IRE1966-02**					
cis-1,2-Dichloroethene	22.8	1.0	0.32	ug/l	25.0	ND	91	65-130			
1,1-Dichloroethene	21.2	1.0	0.42	ug/l	25.0	ND	85	60-130			
trans-1,2-Dichloroethene	23.4	1.0	0.30	ug/l	25.0	ND	93	65-130			
2,2-Dichloropropane	33.7	1.0	0.34	ug/l	25.0	ND	135	60-145			
1,2-Dichloropropane	22.5	1.0	0.35	ug/l	25.0	ND	90	65-130			
cis-1,3-Dichloropropene	24.0	0.50	0.22	ug/l	25.0	ND	96	70-130			
1,1-Dichloropropene	25.3	1.0	0.28	ug/l	25.0	ND	101	70-135			
trans-1,3-Dichloropropene	26.5	0.50	0.32	ug/l	25.0	ND	106	65-135			
Di-isopropyl Ether (DIPE)	22.4	2.0	0.25	ug/l	25.0	ND	90	60-140			
Ethylbenzene	26.7	1.0	0.25	ug/l	25.0	ND	107	65-130			
Ethyl tert-Butyl Ether (ETBE)	26.2	2.0	0.28	ug/l	25.0	ND	105	60-135			
Hexachlorobutadiene	27.0	1.0	0.38	ug/l	25.0	ND	108	60-135			
2-Hexanone	19.6	6.0	2.6	ug/l	25.0	ND	79	25-140			
Isopropylbenzene	30.4	1.0	0.25	ug/l	25.0	ND	122	70-135			
p-Isopropyltoluene	26.3	1.0	0.28	ug/l	25.0	ND	105	65-130			
Methyl-tert-butyl Ether (MTBE)	26.8	1.0	0.32	ug/l	25.0	ND	107	55-145			
Methylene chloride	20.4	1.0	0.95	ug/l	25.0	ND	82	50-135			
4-Methyl-2-pentanone (MIBK)	20.8	5.0	3.5	ug/l	25.0	ND	83	40-140			
n-Propylbenzene	26.3	1.0	0.27	ug/l	25.0	ND	105	70-135			
Styrene	27.3	1.0	0.20	ug/l	25.0	ND	109	50-145			
1,1,1,2-Tetrachloroethane	29.8	1.0	0.27	ug/l	25.0	ND	119	65-140			
1,1,2,2-Tetrachloroethane	22.6	1.0	0.30	ug/l	25.0	ND	91	55-135			
Tetrachloroethene	27.2	1.0	0.32	ug/l	25.0	ND	109	65-130			
Toluene	24.8	1.0	0.36	ug/l	25.0	ND	99	70-125			
1,2,3-Trichlorobenzene	25.7	1.0	0.30	ug/l	25.0	ND	103	60-135			
1,2,4-Trichlorobenzene	27.7	1.0	0.48	ug/l	25.0	ND	111	65-135			
1,1,1-Trichloroethane	30.3	1.0	0.30	ug/l	25.0	ND	121	65-140			
1,1,2-Trichloroethane	23.9	1.0	0.30	ug/l	25.0	ND	95	65-130			
Trichloroethene	25.2	1.0	0.26	ug/l	25.0	ND	101	65-125			
Trichlorofluoromethane	32.3	2.0	0.34	ug/l	25.0	ND	129	60-145			
1,2,3-Trichloropropane	24.6	1.0	0.40	ug/l	25.0	ND	99	55-135			
1,3,5-Trimethylbenzene	27.7	1.0	0.26	ug/l	25.0	ND	111	70-130			
1,2,4-Trimethylbenzene	27.3	1.0	0.23	ug/l	25.0	ND	109	55-135			
Vinyl acetate	26.6	6.0	1.0	ug/l	25.0	ND	107	40-150			
Vinyl chloride	23.4	0.50	0.40	ug/l	25.0	ND	94	45-140			

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BOE-C6-0188820

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: IRE1711

Sampled: 05/20/08
Received: 05/20/08

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: 8E23021 Extracted: 05/23/08											
Matrix Spike Analyzed: 05/23/2008 (8E23021-MS1)						**Source: IRE1966-02**					
o-Xylene	25.9	0.50	0.30	ug/l	25.0	ND	104	65-125			
m,p-Xylenes	51.8	1.0	0.60	ug/l	50.0	ND	104	65-130			
Surrogate: Dibromofluoromethane	*23.3*			*ug/l*	*25.0*		*93*	*80-120*			
Surrogate: Toluene-d8	*23.4*			*ug/l*	*25.0*		*94*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*23.8*			*ug/l*	*25.0*		*95*	*80-120*			
Matrix Spike Dup Analyzed: 05/23/2008 (8E23021-MSD1)						**Source: IRE1966-02**					
Acetone	20.0	10	4.5	ug/l	25.0	ND	80	20-150	1	35	
tert-Amyl Methyl Ether (TAME)	25.4	2.0	0.33	ug/l	25.0	ND	102	60-140	4	30	
Benzene	22.6	0.50	0.28	ug/l	25.0	ND	91	65-125	2	20	
Bromobenzene	24.8	1.0	0.27	ug/l	25.0	ND	99	70-125	1	20	
Bromochloromethane	24.9	1.0	0.40	ug/l	25.0	ND	100	65-135	4	25	
Bromodichloromethane	28.8	1.0	0.30	ug/l	25.0	ND	115	70-135	4	20	
Bromoform	25.6	1.0	0.40	ug/l	25.0	ND	102	55-135	2	25	
Bromomethane	24.2	1.0	0.42	ug/l	25.0	ND	97	55-145	4	25	
tert-Butanol (TBA)	136	25	6.5	ug/l	125	ND	109	65-140	3	25	
2-Butanone (MEK)	19.5	5.0	4.7	ug/l	25.0	ND	78	30-145	2	40	
tert-Butylbenzene	26.0	1.0	0.22	ug/l	25.0	ND	104	65-130	1	20	
n-Butylbenzene	25.3	1.0	0.37	ug/l	25.0	ND	101	65-135	2	20	
sec-Butylbenzene	25.2	1.0	0.25	ug/l	25.0	ND	101	70-125	1	20	
Carbon Disulfide	22.8	1.0	0.48	ug/l	25.0	ND	91	40-140	3	20	
Carbon tetrachloride	32.8	0.50	0.28	ug/l	25.0	ND	131	65-140	2	25	
Chlorobenzene	24.2	1.0	0.36	ug/l	25.0	ND	97	75-125	1	20	
Chloroethane	22.7	2.0	0.40	ug/l	25.0	ND	91	55-140	4	25	
Chloroform	25.6	1.0	0.33	ug/l	25.0	ND	102	65-135	4	20	
Chloromethane	18.6	2.0	0.40	ug/l	25.0	ND	74	45-145	3	25	
2-Chlorotoluene	25.3	1.0	0.28	ug/l	25.0	ND	101	65-135	1	20	
4-Chlorotoluene	25.9	1.0	0.29	ug/l	25.0	ND	104	70-135	1	20	
1,2-Dibromo-3-chloropropane	24.1	2.0	0.97	ug/l	25.0	ND	96	45-145	0	30	
Dibromochloromethane	27.0	1.0	0.40	ug/l	25.0	ND	108	65-140	2	25	
1,2-Dibromoethane (EDB)	25.5	1.0	0.40	ug/l	25.0	ND	102	70-130	3	25	
1,3-Dichlorobenzene	25.5	1.0	0.35	ug/l	25.0	ND	102	75-125	0	20	
1,4-Dichlorobenzene	23.0	1.0	0.37	ug/l	25.0	ND	92	75-125	1	20	
1,2-Dichlorobenzene	25.4	1.0	0.32	ug/l	25.0	ND	102	75-125	2	20	
Dichlorodifluoromethane	24.6	1.0	0.26	ug/l	25.0	ND	99	25-155	3	30	
1,1-Dichloroethane	24.3	1.0	0.40	ug/l	25.0	ND	97	65-130	3	20	

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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: IRE1711

Sampled: 05/20/08
Received: 05/20/08

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: 8E23021 Extracted: 05/23/08											
Matrix Spike Dup Analyzed: 05/23/2008 (8E23021-MSD1)						**Source: IRE1966-02**					
1,2-Dichloroethane	28.0	0.50	0.28	ug/l	25.0	ND	112	60-140	4	20	
cis-1,2-Dichloroethene	22.1	1.0	0.32	ug/l	25.0	ND	88	65-130	3	20	
1,1-Dichloroethene	20.1	1.0	0.42	ug/l	25.0	ND	81	60-130	5	20	
trans-1,2-Dichloroethene	22.9	1.0	0.30	ug/l	25.0	ND	91	65-130	2	20	
2,2-Dichloropropane	32.6	1.0	0.34	ug/l	25.0	ND	130	60-145	3	25	
1,2-Dichloropropane	22.1	1.0	0.35	ug/l	25.0	ND	89	65-130	2	20	
cis-1,3-Dichloropropene	23.3	0.50	0.22	ug/l	25.0	ND	93	70-130	3	20	
1,1-Dichloropropene	24.7	1.0	0.28	ug/l	25.0	ND	99	70-135	3	20	
trans-1,3-Dichloropropene	25.8	0.50	0.32	ug/l	25.0	ND	103	65-135	3	25	
Di-isopropyl Ether (DIPE)	21.7	2.0	0.25	ug/l	25.0	ND	87	60-140	3	25	
Ethylbenzene	26.1	1.0	0.25	ug/l	25.0	ND	105	65-130	2	20	
Ethyl tert-Butyl Ether (ETBE)	25.3	2.0	0.28	ug/l	25.0	ND	101	60-135	4	25	
Hexachlorobutadiene	27.3	1.0	0.38	ug/l	25.0	ND	109	60-135	1	20	
2-Hexanone	19.5	6.0	2.6	ug/l	25.0	ND	78	25-140	1	35	
Isopropylbenzene	30.2	1.0	0.25	ug/l	25.0	ND	121	70-135	1	20	
p-Isopropyltoluene	26.0	1.0	0.28	ug/l	25.0	ND	104	65-130	1	20	
Methyl-tert-butyl Ether (MTBE)	26.0	1.0	0.32	ug/l	25.0	ND	104	55-145	3	25	
Methylene chloride	19.9	1.0	0.95	ug/l	25.0	ND	80	50-135	3	20	
4-Methyl-2-pentanone (MIBK)	20.3	5.0	3.5	ug/l	25.0	ND	81	40-140	2	35	
n-Propylbenzene	26.1	1.0	0.27	ug/l	25.0	ND	104	70-135	1	20	
Styrene	26.4	1.0	0.20	ug/l	25.0	ND	106	50-145	3	30	
1,1,1,2-Tetrachloroethane	29.0	1.0	0.27	ug/l	25.0	ND	116	65-140	3	20	
1,1,2,2-Tetrachloroethane	22.3	1.0	0.30	ug/l	25.0	ND	89	55-135	2	30	
Tetrachloroethene	26.4	1.0	0.32	ug/l	25.0	ND	105	65-130	3	20	
Toluene	24.1	1.0	0.36	ug/l	25.0	ND	96	70-125	3	20	
1,2,3-Trichlorobenzene	25.4	1.0	0.30	ug/l	25.0	ND	102	60-135	1	20	
1,2,4-Trichlorobenzene	27.3	1.0	0.48	ug/l	25.0	ND	109	65-135	1	20	
1,1,1-Trichloroethane	29.7	1.0	0.30	ug/l	25.0	ND	119	65-140	2	20	
1,1,2-Trichloroethane	23.3	1.0	0.30	ug/l	25.0	ND	93	65-130	2	25	
Trichloroethene	24.9	1.0	0.26	ug/l	25.0	ND	100	65-125	1	20	
Trichlorofluoromethane	30.7	2.0	0.34	ug/l	25.0	ND	123	60-145	5	25	
1,2,3-Trichloropropane	24.1	1.0	0.40	ug/l	25.0	ND	97	55-135	2	30	
1,3,5-Trimethylbenzene	27.1	1.0	0.26	ug/l	25.0	ND	108	70-130	2	20	
1,2,4-Trimethylbenzene	26.6	1.0	0.23	ug/l	25.0	ND	107	55-135	3	25	
Vinyl acetate	25.2	6.0	1.0	ug/l	25.0	ND	101	40-150	6	30	

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BOE-C6-0188821

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: IRE1711

Sampled: 05/20/08
Received: 05/20/08

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: 8E23021 Extracted: 05/23/08											
Matrix Spike Dup Analyzed: 05/23/2008 (8E23021-MSD1)					Source: IRE1966-02						
Vinyl chloride	23.0	0.50	0.40	ug/l	25.0	ND	92	45-140	2	30	
o-Xylene	25.4	0.50	0.30	ug/l	25.0	ND	102	65-125	2	20	
m,p-Xylenes	50.9	1.0	0.60	ug/l	50.0	ND	102	65-130	2	25	
Surrogate: Dibromofluoromethane	*22.8*			*ug/l*	*25.0*		*91*	*80-120*			
Surrogate: Toluene-d8	*23.3*			*ug/l*	*25.0*		*93*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*23.8*			*ug/l*	*25.0*		*95*	*80-120*			
Batch: 8E23029 Extracted: 05/23/08											
Blank Analyzed: 05/23/2008 (8E23029-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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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: IRE1711

Sampled: 05/20/08
Received: 05/20/08

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: 8E23029 Extracted: 05/23/08											
Blank Analyzed: 05/23/2008 (8E23029-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	1.75	1.0	0.95	ug/l							*B*
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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BOE-C6-0188822

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: IRE1711

Sampled: 05/20/08
Received: 05/20/08

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: 8E23029 Extracted: 05/23/08											
Blank Analyzed: 05/23/2008 (8E23029-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	*20.4*			*ug/l*	*25.0*		*82*	*80-120*			
Surrogate: Toluene-d8	*23.1*			*ug/l*	*25.0*		*93*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*22.0*			*ug/l*	*25.0*		*88*	*80-120*			
LCS Analyzed: 05/23/2008 (8E23029-BS1)											
Acetone	15.8	10	4.5	ug/l	25.0		63	30-140			
tert-Amyl Methyl Ether (TAME)	22.7	2.0	0.33	ug/l	25.0		91	60-135			
Benzene	21.4	0.50	0.28	ug/l	25.0		86	70-120			
Bromobenzene	22.6	1.0	0.27	ug/l	25.0		91	75-120			
Bromochloromethane	22.5	1.0	0.40	ug/l	25.0		90	70-130			
Bromodichloromethane	24.8	1.0	0.30	ug/l	25.0		99	70-135			
Bromoform	22.9	1.0	0.40	ug/l	25.0		92	55-130			
Bromomethane	21.5	1.0	0.42	ug/l	25.0		86	65-140			
tert-Butanol (TBA)	124	25	6.5	ug/l	125		99	70-135			
2-Butanone (MEK)	17.5	5.0	4.7	ug/l	25.0		70	40-140			
tert-Butylbenzene	23.8	1.0	0.22	ug/l	25.0		95	70-125			
n-Butylbenzene	24.1	1.0	0.37	ug/l	25.0		96	70-130			
sec-Butylbenzene	23.4	1.0	0.25	ug/l	25.0		93	70-125			
Carbon Disulfide	21.1	1.0	0.48	ug/l	25.0		84	50-130			
Carbon tetrachloride	27.2	0.50	0.28	ug/l	25.0		109	65-140			
Chlorobenzene	22.7	1.0	0.36	ug/l	25.0		91	75-120			
Chloroethane	20.7	2.0	0.40	ug/l	25.0		83	60-140			
Chloroform	22.3	1.0	0.33	ug/l	25.0		89	70-130			
Chloromethane	14.7	2.0	0.40	ug/l	25.0		59	50-140			
2-Chlorotoluene	23.0	1.0	0.28	ug/l	25.0		92	70-125			
4-Chlorotoluene	23.6	1.0	0.29	ug/l	25.0		94	75-125			
1,2-Dibromo-3-chloropropane	21.4	2.0	0.97	ug/l	25.0		86	50-135			

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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)
1155.006
Report Number: IRE1711

Sampled: 05/20/08
Received: 05/20/08

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: 8E23029 Extracted: 05/23/08											
LCS Analyzed: 05/23/2008 (8E23029-BS1)											
Dibromochloromethane	24.1	1.0	0.40	ug/l	25.0		96	70-140			
1,2-Dibromoethane (EDB)	23.0	1.0	0.40	ug/l	25.0		92	75-125			
1,3-Dichlorobenzene	23.8	1.0	0.35	ug/l	25.0		95	75-120			
1,4-Dichlorobenzene	21.5	1.0	0.37	ug/l	25.0		86	75-120			
1,2-Dichlorobenzene	23.6	1.0	0.32	ug/l	25.0		94	75-120			
Dichlorodifluoromethane	17.4	1.0	0.26	ug/l	25.0		70	35-155			
1,1-Dichloroethane	21.7	1.0	0.40	ug/l	25.0		87	70-125			
1,2-Dichloroethane	23.1	0.50	0.28	ug/l	25.0		92	60-140			
cis-1,2-Dichloroethene	20.6	1.0	0.32	ug/l	25.0		82	70-125			
1,1-Dichloroethene	18.6	1.0	0.42	ug/l	25.0		75	70-125			
trans-1,2-Dichloroethene	21.1	1.0	0.30	ug/l	25.0		84	70-125			
2,2-Dichloropropane	29.4	1.0	0.34	ug/l	25.0		118	65-140			
1,2-Dichloropropane	20.8	1.0	0.35	ug/l	25.0		83	70-125			
cis-1,3-Dichloropropene	21.2	0.50	0.22	ug/l	25.0		85	75-125			
1,1-Dichloropropene	22.6	1.0	0.28	ug/l	25.0		90	75-130			
trans-1,3-Dichloropropene	22.6	0.50	0.32	ug/l	25.0		91	70-125			
Di-isopropyl Ether (DIPE)	19.2	2.0	0.25	ug/l	25.0		77	60-135			
Ethylbenzene	24.6	1.0	0.25	ug/l	25.0		98	75-125			
Ethyl tert-Butyl Ether (ETBE)	22.1	2.0	0.28	ug/l	25.0		88	65-135			
Hexachlorobutadiene	26.9	1.0	0.38	ug/l	25.0		108	65-135			
2-Hexanone	17.2	6.0	2.6	ug/l	25.0		69	45-140			
Isopropylbenzene	27.8	1.0	0.25	ug/l	25.0		111	75-130			
p-Isopropyltoluene	24.2	1.0	0.28	ug/l	25.0		97	75-125			
Methyl-tert-butyl Ether (MTBE)	22.4	1.0	0.32	ug/l	25.0		90	60-135			
Methylene chloride	18.1	1.0	0.95	ug/l	25.0		72	55-130			
4-Methyl-2-pentanone (MIBK)	17.8	5.0	3.5	ug/l	25.0		71	45-140			
n-Propylbenzene	24.2	1.0	0.27	ug/l	25.0		97	75-130			
Styrene	25.7	1.0	0.20	ug/l	25.0		103	75-130			
1,1,1,2-Tetrachloroethane	26.2	1.0	0.27	ug/l	25.0		105	70-130			
1,1,2,2-Tetrachloroethane	20.0	1.0	0.30	ug/l	25.0		80	55-130			
Tetrachloroethene	25.2	1.0	0.32	ug/l	25.0		101	70-125			
Toluene	22.7	1.0	0.36	ug/l	25.0		91	70-120			
1,2,3-Trichlorobenzene	25.6	1.0	0.30	ug/l	25.0		102	65-125			
1,2,4-Trichlorobenzene	27.1	1.0	0.48	ug/l	25.0		108	70-135			
1,1,1-Trichloroethane	25.3	1.0	0.30	ug/l	25.0		101	65-135			

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Project Manager

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BOE-C6-0188823

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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: IRE1711

Sampled: 05/20/08
Received: 05/20/08

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: 8E23029 Extracted: 05/23/08											
LCS Analyzed: 05/23/2008 (8E23029-BS1)											
1,1,2-Trichloroethane	21.2	1.0	0.30	ug/l	25.0		85	70-125			
Trichloroethene	23.0	1.0	0.26	ug/l	25.0		92	70-125			
Trichlorofluoromethane	25.0	2.0	0.34	ug/l	25.0		100	65-145			
1,2,3-Trichloropropane	21.6	1.0	0.40	ug/l	25.0		87	60-130			
1,3,5-Trimethylbenzene	25.3	1.0	0.26	ug/l	25.0		101	75-125			
1,2,4-Trimethylbenzene	25.0	1.0	0.23	ug/l	25.0		100	75-125			
Vinyl acetate	23.1	6.0	1.0	ug/l	25.0		92	45-145			
Vinyl chloride	19.0	0.50	0.40	ug/l	25.0		76	55-135			
o-Xylene	24.0	0.50	0.30	ug/l	25.0		96	75-125			
m,p-Xylenes	48.7	1.0	0.60	ug/l	50.0		97	75-125			
Surrogate: Dibromofluoromethane	*21.4*			*ug/l*	*25.0*		*86*	*80-120*			
Surrogate: Toluene-d8	*23.4*			*ug/l*	*25.0*		*93*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*23.3*			*ug/l*	*25.0*		*93*	*80-120*			
Matrix Spike Analyzed: 05/23/2008 (8E23029-MS1)						**Source: IRE1970-03**					
Acetone	18.0	10	4.5	ug/l	25.0	ND	72	20-150			
tert-Amyl Methyl Ether (TAME)	23.9	2.0	0.33	ug/l	25.0	ND	96	60-140			
Benzene	22.6	0.50	0.28	ug/l	25.0	ND	91	65-125			
Bromobenzene	23.6	1.0	0.27	ug/l	25.0	ND	94	70-125			
Bromochloromethane	23.5	1.0	0.40	ug/l	25.0	ND	94	65-135			
Bromodichloromethane	26.5	1.0	0.30	ug/l	25.0	ND	106	70-135			
Bromoform	23.3	1.0	0.40	ug/l	25.0	ND	93	55-135			
Bromomethane	19.1	1.0	0.42	ug/l	25.0	ND	77	55-145			
tert-Butanol (TBA)	131	25	6.5	ug/l	125	ND	105	65-140			
2-Butanone (MEK)	17.6	5.0	4.7	ug/l	25.0	ND	70	30-145			
tert-Butylbenzene	28.5	1.0	0.22	ug/l	25.0	3.72	99	65-130			
n-Butylbenzene	25.8	1.0	0.37	ug/l	25.0	ND	103	65-135			
sec-Butylbenzene	26.7	1.0	0.25	ug/l	25.0	2.72	96	70-125			
Carbon Disulfide	23.6	1.0	0.48	ug/l	25.0	ND	94	40-140			
Carbon tetrachloride	27.8	0.50	0.28	ug/l	25.0	ND	111	65-140			
Chlorobenzene	23.9	1.0	0.36	ug/l	25.0	ND	95	75-125			
Chloroethane	22.1	2.0	0.40	ug/l	25.0	ND	89	55-140			
Chloroform	23.8	1.0	0.33	ug/l	25.0	ND	95	65-135			
Chloromethane	16.0	2.0	0.40	ug/l	25.0	ND	64	45-145			
2-Chlorotoluene	24.0	1.0	0.28	ug/l	25.0	ND	96	65-135			
4-Chlorotoluene	24.7	1.0	0.29	ug/l	25.0	ND	99	70-135			

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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: IRE1711

Sampled: 05/20/08
Received: 05/20/08

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: 8E23029 Extracted: 05/23/08											
Matrix Spike Analyzed: 05/23/2008 (8E23029-MS1)						**Source: IRE1970-03**					
1,2-Dibromo-3-chloropropane	23.6	2.0	0.97	ug/l	25.0	ND	94	45-145			
Dibromochloromethane	24.6	1.0	0.40	ug/l	25.0	ND	98	65-140			
1,2-Dibromoethane (EDB)	23.7	1.0	0.40	ug/l	25.0	ND	95	70-130			
1,3-Dichlorobenzene	24.6	1.0	0.35	ug/l	25.0	ND	98	75-125			
1,4-Dichlorobenzene	22.4	1.0	0.37	ug/l	25.0	ND	90	75-125			
1,2-Dichlorobenzene	24.5	1.0	0.32	ug/l	25.0	ND	98	75-125			
Dichlorodifluoromethane	18.6	1.0	0.26	ug/l	25.0	ND	74	25-155			
1,1-Dichloroethane	23.2	1.0	0.40	ug/l	25.0	ND	93	65-130			
1,2-Dichloroethane	24.1	0.50	0.28	ug/l	25.0	ND	96	60-140			
cis-1,2-Dichloroethene	22.0	1.0	0.32	ug/l	25.0	ND	88	65-130			
1,1-Dichloroethene	19.8	1.0	0.42	ug/l	25.0	ND	79	60-130			
trans-1,2-Dichloroethene	22.4	1.0	0.30	ug/l	25.0	ND	90	65-130			
2,2-Dichloropropane	30.5	1.0	0.34	ug/l	25.0	ND	122	60-145			
1,2-Dichloropropane	21.9	1.0	0.35	ug/l	25.0	ND	88	65-130			
cis-1,3-Dichloropropene	22.4	0.50	0.22	ug/l	25.0	ND	90	70-130			
1,1-Dichloropropene	23.7	1.0	0.28	ug/l	25.0	ND	95	70-135			
trans-1,3-Dichloropropene	23.7	0.50	0.32	ug/l	25.0	ND	95	65-135			
Di-isopropyl Ether (DIPE)	20.6	2.0	0.25	ug/l	25.0	ND	83	60-140			
Ethylbenzene	25.6	1.0	0.25	ug/l	25.0	ND	102	65-130			
Ethyl tert-Butyl Ether (ETBE)	23.5	2.0	0.28	ug/l	25.0	ND	94	60-135			
Hexachlorobutadiene	29.0	1.0	0.38	ug/l	25.0	ND	116	60-135			
2-Hexanone	17.4	6.0	2.6	ug/l	25.0	ND	70	25-140			
Isopropylbenzene	34.4	1.0	0.25	ug/l	25.0	5.91	114	70-135			
p-Isopropyltoluene	25.4	1.0	0.28	ug/l	25.0	ND	101	65-130			
Methyl-tert-butyl Ether (MTBE)	23.4	1.0	0.32	ug/l	25.0	ND	94	55-145			
Methylene chloride	19.2	1.0	0.95	ug/l	25.0	ND	77	50-135			
4-Methyl-2-pentanone (MIBK)	18.1	5.0	3.5	ug/l	25.0	ND	72	40-140			
n-Propylbenzene	29.6	1.0	0.27	ug/l	25.0	4.68	100	70-135			
Styrene	26.5	1.0	0.20	ug/l	25.0	ND	106	50-145			
1,1,1,2-Tetrachloroethane	27.4	1.0	0.27	ug/l	25.0	ND	110	65-140			
1,1,2,2-Tetrachloroethane	20.1	1.0	0.30	ug/l	25.0	ND	80	55-135			
Tetrachloroethene	25.9	1.0	0.32	ug/l	25.0	ND	104	65-130			
Toluene	24.1	1.0	0.36	ug/l	25.0	ND	96	70-125			
1,2,3-Trichlorobenzene	29.8	1.0	0.30	ug/l	25.0	ND	119	60-135			
1,2,4-Trichlorobenzene	29.8	1.0	0.48	ug/l	25.0	ND	119	65-135			

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Project Manager

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BOE-C6-0188824

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: IRE1711

Sampled: 05/20/08
Received: 05/20/08

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: 8E23029 Extracted: 05/23/08											
Matrix Spike Analyzed: 05/23/2008 (8E23029-MS1)						**Source: IRE1970-03**					
1,1,1-Trichloroethane	26.9	1.0	0.30	ug/l	25.0	ND	108	65-140			
1,1,2-Trichloroethane	22.0	1.0	0.30	ug/l	25.0	ND	88	65-130			
Trichloroethene	24.1	1.0	0.26	ug/l	25.0	ND	97	65-125			
Trichlorofluoromethane	26.5	2.0	0.34	ug/l	25.0	ND	106	60-145			
1,2,3-Trichloropropane	20.9	1.0	0.40	ug/l	25.0	ND	83	55-135			
1,3,5-Trimethylbenzene	26.4	1.0	0.26	ug/l	25.0	ND	106	70-130			
1,2,4-Trimethylbenzene	26.0	1.0	0.23	ug/l	25.0	ND	104	55-135			
Vinyl acetate	23.2	6.0	1.0	ug/l	25.0	ND	93	40-150			
Vinyl chloride	20.9	0.50	0.40	ug/l	25.0	ND	84	45-140			
o-Xylene	25.1	0.50	0.30	ug/l	25.0	ND	100	65-125			
m,p-Xylenes	50.4	1.0	0.60	ug/l	50.0	ND	101	65-130			
Surrogate: Dibromofluoromethane	*21.7*			*ug/l*	*25.0*		*87*	*80-120*			
Surrogate: Toluene-d8	*23.4*			*ug/l*	*25.0*		*94*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*23.5*			*ug/l*	*25.0*		*94*	*80-120*			
Matrix Spike Dup Analyzed: 05/23/2008 (8E23029-MSD1)						**Source: IRE1970-03**					
Acetone	19.5	10	4.5	ug/l	25.0	ND	78	20-150	8	35	
tert-Amyl Methyl Ether (TAME)	24.4	2.0	0.33	ug/l	25.0	ND	97	60-140	2	30	
Benzene	23.2	0.50	0.28	ug/l	25.0	ND	93	65-125	2	20	
Bromobenzene	24.1	1.0	0.27	ug/l	25.0	ND	97	70-125	2	20	
Bromochloromethane	24.2	1.0	0.40	ug/l	25.0	ND	97	65-135	3	25	
Bromodichloromethane	26.8	1.0	0.30	ug/l	25.0	ND	107	70-135	1	20	
Bromoform	24.2	1.0	0.40	ug/l	25.0	ND	97	55-135	4	25	
Bromomethane	19.2	1.0	0.42	ug/l	25.0	ND	77	55-145	1	25	
tert-Butanol (TBA)	133	25	6.5	ug/l	125	ND	107	65-140	2	25	
2-Butanone (MEK)	18.9	5.0	4.7	ug/l	25.0	ND	76	30-145	7	40	
tert-Butylbenzene	29.2	1.0	0.22	ug/l	25.0	3.72	102	65-130	2	20	
n-Butylbenzene	26.7	1.0	0.37	ug/l	25.0	ND	107	65-135	3	20	
sec-Butylbenzene	27.6	1.0	0.25	ug/l	25.0	2.72	99	70-125	3	20	
Carbon Disulfide	24.0	1.0	0.48	ug/l	25.0	ND	96	40-140	2	20	
Carbon tetrachloride	28.4	0.50	0.28	ug/l	25.0	ND	114	65-140	2	25	
Chlorobenzene	24.2	1.0	0.36	ug/l	25.0	ND	97	75-125	1	20	
Chloroethane	22.5	2.0	0.40	ug/l	25.0	ND	90	55-140	2	25	
Chloroform	24.1	1.0	0.33	ug/l	25.0	ND	96	65-135	1	20	
Chloromethane	16.9	2.0	0.40	ug/l	25.0	ND	68	45-145	6	25	
2-Chlorotoluene	24.4	1.0	0.28	ug/l	25.0	ND	98	65-135	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)
1155.006
Report Number: IRE1711

Sampled: 05/20/08
Received: 05/20/08

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: 8E23029 Extracted: 05/23/08											
Matrix Spike Dup Analyzed: 05/23/2008 (8E23029-MSD1)						**Source: IRE1970-03**					
4-Chlorotoluene	25.2	1.0	0.29	ug/l	25.0	ND	101	70-135	2	20	
1,2-Dibromo-3-chloropropane	25.8	2.0	0.97	ug/l	25.0	ND	103	45-145	9	30	
Dibromochloromethane	25.1	1.0	0.40	ug/l	25.0	ND	101	65-140	2	25	
1,2-Dibromoethane (EDB)	24.6	1.0	0.40	ug/l	25.0	ND	98	70-130	4	25	
1,3-Dichlorobenzene	24.9	1.0	0.35	ug/l	25.0	ND	100	75-125	1	20	
1,4-Dichlorobenzene	22.6	1.0	0.37	ug/l	25.0	ND	90	75-125	1	20	
1,2-Dichlorobenzene	25.0	1.0	0.32	ug/l	25.0	ND	100	75-125	2	20	
Dichlorodifluoromethane	19.8	1.0	0.26	ug/l	25.0	ND	79	25-155	6	30	
1,1-Dichloroethane	23.4	1.0	0.40	ug/l	25.0	ND	94	65-130	1	20	
1,2-Dichloroethane	24.6	0.50	0.28	ug/l	25.0	ND	98	60-140	2	20	
cis-1,2-Dichloroethene	22.2	1.0	0.32	ug/l	25.0	ND	89	65-130	1	20	
1,1-Dichloroethene	20.0	1.0	0.42	ug/l	25.0	ND	80	60-130	1	20	
trans-1,2-Dichloroethene	22.7	1.0	0.30	ug/l	25.0	ND	91	65-130	1	20	
2,2-Dichloropropane	31.1	1.0	0.34	ug/l	25.0	ND	124	60-145	2	25	
1,2-Dichloropropane	22.1	1.0	0.35	ug/l	25.0	ND	88	65-130	1	20	
cis-1,3-Dichloropropene	22.8	0.50	0.22	ug/l	25.0	ND	91	70-130	2	20	
1,1-Dichloropropene	24.3	1.0	0.28	ug/l	25.0	ND	97	70-135	2	20	
trans-1,3-Dichloropropene	23.9	0.50	0.32	ug/l	25.0	ND	96	65-135	1	25	
Di-isopropyl Ether (DIPE)	20.7	2.0	0.25	ug/l	25.0	ND	83	60-140	0	25	
Ethylbenzene	26.3	1.0	0.25	ug/l	25.0	ND	105	65-130	3	20	
Ethyl tert-Butyl Ether (ETBE)	23.7	2.0	0.28	ug/l	25.0	ND	95	60-135	1	25	
Hexachlorobutadiene	29.8	1.0	0.38	ug/l	25.0	ND	119	60-135	3	20	
2-Hexanone	19.5	6.0	2.6	ug/l	25.0	ND	78	25-140	12	35	
Isopropylbenzene	35.4	1.0	0.25	ug/l	25.0	5.91	118	70-135	3	20	
p-Isopropyltoluene	25.7	1.0	0.28	ug/l	25.0	ND	103	65-130	1	20	
Methyl-tert-butyl Ether (MTBE)	24.3	1.0	0.32	ug/l	25.0	ND	97	55-145	3	25	
Methylene chloride	19.3	1.0	0.95	ug/l	25.0	ND	77	50-135	1	20	
4-Methyl-2-pentanone (MIBK)	19.6	5.0	3.5	ug/l	25.0	ND	78	40-140	8	35	
n-Propylbenzene	30.5	1.0	0.27	ug/l	25.0	4.68	103	70-135	3	20	
Styrene	27.1	1.0	0.20	ug/l	25.0	ND	108	50-145	2	30	
1,1,1,2-Tetrachloroethane	27.8	1.0	0.27	ug/l	25.0	ND	111	65-140	1	20	
1,1,2,2-Tetrachloroethane	21.4	1.0	0.30	ug/l	25.0	ND	86	55-135	6	30	
Tetrachloroethene	26.5	1.0	0.32	ug/l	25.0	ND	106	65-130	2	20	
Toluene	24.6	1.0	0.36	ug/l	25.0	ND	98	70-125	2	20	
1,2,3-Trichlorobenzene	30.4	1.0	0.30	ug/l	25.0	ND	122	60-135	2	20	

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BOE-C6-0188825

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: IRE1711

Sampled: 05/20/08
Received: 05/20/08

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: 8E23029 Extracted: 05/23/08											
Matrix Spike Dup Analyzed: 05/23/2008 (8E23029-MSD1)						**Source: IRE1970-03**					
1,2,4-Trichlorobenzene	30.5	1.0	0.48	ug/l	25.0	ND	122	65-135	2	20	
1,1,1-Trichloroethane	27.3	1.0	0.30	ug/l	25.0	ND	109	65-140	1	20	
1,1,2-Trichloroethane	22.8	1.0	0.30	ug/l	25.0	ND	91	65-130	4	25	
Trichloroethene	24.8	1.0	0.26	ug/l	25.0	ND	99	65-125	3	20	
Trichlorofluoromethane	27.3	2.0	0.34	ug/l	25.0	ND	109	60-145	3	25	
1,2,3-Trichloropropane	22.0	1.0	0.40	ug/l	25.0	ND	88	55-135	5	30	
1,3,5-Trimethylbenzene	27.0	1.0	0.26	ug/l	25.0	ND	108	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	23.0	6.0	1.0	ug/l	25.0	ND	92	40-150	1	30	
Vinyl chloride	21.3	0.50	0.40	ug/l	25.0	ND	85	45-140	2	30	
o-Xylene	25.4	0.50	0.30	ug/l	25.0	ND	102	65-125	1	20	
m,p-Xylenes	51.7	1.0	0.60	ug/l	50.0	ND	103	65-130	2	25	
Surrogate: Dibromofluoromethane	*21.6*			*ug/l*	*25.0*		*86*	*80-120*			
Surrogate: Toluene-d8	*23.5*			*ug/l*	*25.0*		*94*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*23.2*			*ug/l*	*25.0*		*93*	*80-120*			
Batch: 8E24007 Extracted: 05/24/08											
Blank Analyzed: 05/24/2008 (8E24007-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							

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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: IRE1711

Sampled: 05/20/08
Received: 05/20/08

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: 8E24007 Extracted: 05/24/08											
Blank Analyzed: 05/24/2008 (8E24007-BLK1)											
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							
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							

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BOE-C6-0188826

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: IRE1711

Sampled: 05/20/08
Received: 05/20/08

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: 8E24007 Extracted: 05/24/08											
Blank Analyzed: 05/24/2008 (8E24007-BLK1)											
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							
Surrogate: Dibromofluoromethane	*21.8*			*ug/l*	*25.0*		*87*	*80-120*			
Surrogate: Toluene-d8	*23.2*			*ug/l*	*25.0*		*93*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*22.4*			*ug/l*	*25.0*		*89*	*80-120*			
LCS Analyzed: 05/24/2008 (8E24007-BS1)											
Acetone	17.2	10	4.5	ug/l	25.0		69	30-140			
tert-Amyl Methyl Ether (TAME)	25.3	2.0	0.33	ug/l	25.0		101	60-135			
Benzene	22.5	0.50	0.28	ug/l	25.0		90	70-120			
Bromobenzene	24.5	1.0	0.27	ug/l	25.0		98	75-120			
Bromochloromethane	24.6	1.0	0.40	ug/l	25.0		99	70-130			
Bromodichloromethane	27.9	1.0	0.30	ug/l	25.0		112	70-135			
Bromoform	24.2	1.0	0.40	ug/l	25.0		97	55-130			
Bromomethane	23.8	1.0	0.42	ug/l	25.0		95	65-140			
tert-Butanol (TBA)	131	25	6.5	ug/l	125		104	70-135			
2-Butanone (MEK)	19.2	5.0	4.7	ug/l	25.0		77	40-140			
tert-Butylbenzene	25.5	1.0	0.22	ug/l	25.0		102	70-125			
n-Butylbenzene	25.2	1.0	0.37	ug/l	25.0		101	70-130			
sec-Butylbenzene	24.6	1.0	0.25	ug/l	25.0		98	70-125			

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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: IRE1711

Sampled: 05/20/08
Received: 05/20/08

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: 8E24007 Extracted: 05/24/08											
LCS Analyzed: 05/24/2008 (8E24007-BS1)											
Carbon Disulfide	22.6	1.0	0.48	ug/l	25.0		90	50-130			
Carbon tetrachloride	30.8	0.50	0.28	ug/l	25.0		123	65-140			
Chlorobenzene	23.7	1.0	0.36	ug/l	25.0		95	75-120			
Chloroethane	22.3	2.0	0.40	ug/l	25.0		89	60-140			
Chloroform	24.9	1.0	0.33	ug/l	25.0		100	70-130			
Chloromethane	18.4	2.0	0.40	ug/l	25.0		74	50-140			
2-Chlorotoluene	24.7	1.0	0.28	ug/l	25.0		99	70-125			
4-Chlorotoluene	25.4	1.0	0.29	ug/l	25.0		102	75-125			
1,2-Dibromo-3-chloropropane	22.7	2.0	0.97	ug/l	25.0		91	50-135			
Dibromochloromethane	25.7	1.0	0.40	ug/l	25.0		103	70-140			
1,2-Dibromoethane (EDB)	24.8	1.0	0.40	ug/l	25.0		99	75-125			
1,3-Dichlorobenzene	25.2	1.0	0.35	ug/l	25.0		101	75-120			
1,4-Dichlorobenzene	22.7	1.0	0.37	ug/l	25.0		91	75-120			
1,2-Dichlorobenzene	25.4	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	23.7	1.0	0.40	ug/l	25.0		95	70-125			
1,2-Dichloroethane	26.4	0.50	0.28	ug/l	25.0		105	60-140			
cis-1,2-Dichloroethene	21.9	1.0	0.32	ug/l	25.0		88	70-125			
1,1-Dichloroethene	20.3	1.0	0.42	ug/l	25.0		81	70-125			
trans-1,2-Dichloroethene	22.6	1.0	0.30	ug/l	25.0		90	70-125			
2,2-Dichloropropane	31.0	1.0	0.34	ug/l	25.0		124	65-140			
1,2-Dichloropropane	22.2	1.0	0.35	ug/l	25.0		89	70-125			
cis-1,3-Dichloropropene	23.1	0.50	0.22	ug/l	25.0		92	75-125			
1,1-Dichloropropene	23.8	1.0	0.28	ug/l	25.0		95	75-130			
trans-1,3-Dichloropropene	24.7	0.50	0.32	ug/l	25.0		99	70-125			
Di-isopropyl Ether (DIPE)	21.4	2.0	0.25	ug/l	25.0		85	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	27.1	1.0	0.38	ug/l	25.0		109	65-135			
2-Hexanone	18.4	6.0	2.6	ug/l	25.0		74	45-140			
Isopropylbenzene	29.6	1.0	0.25	ug/l	25.0		118	75-130			
p-Isopropyltoluene	25.6	1.0	0.28	ug/l	25.0		102	75-125			
Methyl-tert-butyl Ether (MTBE)	25.5	1.0	0.32	ug/l	25.0		102	60-135			
Methylene chloride	19.6	1.0	0.95	ug/l	25.0		78	55-130			
4-Methyl-2-pentanone (MIBK)	19.3	5.0	3.5	ug/l	25.0		77	45-140			

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BOE-C6-0188827

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: IRE1711

Sampled: 05/20/08
Received: 05/20/08

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: 8E24007 Extracted: 05/24/08											
LCS Analyzed: 05/24/2008 (8E24007-BS1)											
n-Propylbenzene	25.6	1.0	0.27	ug/l	25.0		102	75-130			
Styrene	26.4	1.0	0.20	ug/l	25.0		106	75-130			
1,1,1,2-Tetrachloroethane	28.0	1.0	0.27	ug/l	25.0		112	70-130			
1,1,2,2-Tetrachloroethane	21.8	1.0	0.30	ug/l	25.0		87	55-130			
Tetrachloroethene	25.7	1.0	0.32	ug/l	25.0		103	70-125			
Toluene	23.9	1.0	0.36	ug/l	25.0		96	70-120			
1,2,3-Trichlorobenzene	25.8	1.0	0.30	ug/l	25.0		103	65-125			
1,2,4-Trichlorobenzene	27.2	1.0	0.48	ug/l	25.0		109	70-135			
1,1,1-Trichloroethane	28.3	1.0	0.30	ug/l	25.0		113	65-135			
1,1,2-Trichloroethane	23.0	1.0	0.30	ug/l	25.0		92	70-125			
Trichloroethene	23.9	1.0	0.26	ug/l	25.0		96	70-125			
Trichlorofluoromethane	29.2	2.0	0.34	ug/l	25.0		117	65-145			
1,2,3-Trichloropropane	22.8	1.0	0.40	ug/l	25.0		91	60-130			
1,3,5-Trimethylbenzene	27.1	1.0	0.26	ug/l	25.0		108	75-125			
1,2,4-Trimethylbenzene	26.7	1.0	0.23	ug/l	25.0		107	75-125			
Vinyl acetate	25.3	6.0	1.0	ug/l	25.0		101	45-145			
Vinyl chloride	22.5	0.50	0.40	ug/l	25.0		90	55-135			
o-Xylene	25.0	0.50	0.30	ug/l	25.0		100	75-125			
m,p-Xylenes	50.2	1.0	0.60	ug/l	50.0		100	75-125			
Surrogate: Dibromofluoromethane	*22.7*			*ug/l*	*25.0*		*91*	*80-120*			
Surrogate: Toluene-d8	*23.4*			*ug/l*	*25.0*		*94*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*23.6*			*ug/l*	*25.0*		*94*	*80-120*			
Matrix Spike Analyzed: 05/24/2008 (8E24007-MS1)						**Source: IRE1904-08**					
Acetone	168	100	45	ug/l	250	ND	67	20-150			
tert-Amyl Methyl Ether (TAME)	246	20	3.3	ug/l	250	ND	99	60-140			
Benzene	227	5.0	2.8	ug/l	250	ND	91	65-125			
Bromobenzene	247	10	2.7	ug/l	250	ND	99	70-125			
Bromochloromethane	241	10	4.0	ug/l	250	ND	97	65-135			
Bromodichloromethane	279	10	3.0	ug/l	250	ND	111	70-135			
Bromoform	246	10	4.0	ug/l	250	ND	99	55-135			
Bromomethane	225	10	4.2	ug/l	250	ND	90	55-145			
tert-Butanol (TBA)	1400	250	65	ug/l	1250	ND	112	65-140			
2-Butanone (MEK)	186	50	47	ug/l	250	ND	75	30-145			
tert-Butylbenzene	264	10	2.2	ug/l	250	ND	105	65-130			
n-Butylbenzene	260	10	3.7	ug/l	250	ND	104	65-135			

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Attention: Michael Rendina

Project ID: Boeing C-6 Torrance (02/26/08)
1155.006
Report Number: IRE1711

Sampled: 05/20/08
Received: 05/20/08

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: 8E24007 Extracted: 05/24/08											
Matrix Spike Analyzed: 05/24/2008 (8E24007-MS1)						**Source: IRE1904-08**					
sec-Butylbenzene	255	10	2.5	ug/l	250	ND	102	70-125			
Carbon Disulfide	221	10	4.8	ug/l	250	ND	88	40-140			
Carbon tetrachloride	319	5.0	2.8	ug/l	250	ND	127	65-140			
Chlorobenzene	247	10	3.6	ug/l	250	ND	99	75-125			
Chloroethane	213	20	4.0	ug/l	250	ND	85	55-140			
Chloroform	251	10	3.3	ug/l	250	ND	101	65-135			
Chloromethane	162	20	4.0	ug/l	250	ND	65	45-145			
2-Chlorotoluene	254	10	2.8	ug/l	250	ND	102	65-135			
4-Chlorotoluene	261	10	2.9	ug/l	250	ND	104	70-135			
1,2-Dibromo-3-chloropropane	229	20	9.7	ug/l	250	ND	92	45-145			
Dibromochloromethane	264	10	4.0	ug/l	250	ND	106	65-140			
1,2-Dibromoethane (EDB)	253	10	4.0	ug/l	250	ND	101	70-130			
1,3-Dichlorobenzene	257	10	3.5	ug/l	250	ND	103	75-125			
1,4-Dichlorobenzene	232	10	3.7	ug/l	250	ND	93	75-125			
1,2-Dichlorobenzene	257	10	3.2	ug/l	250	ND	103	75-125			
Dichlorodifluoromethane	157	10	2.6	ug/l	250	ND	63	25-155			
1,1-Dichloroethane	239	10	4.0	ug/l	250	ND	96	65-130			
1,2-Dichloroethane	267	5.0	2.8	ug/l	250	ND	107	60-140			
cis-1,2-Dichloroethene	275	10	3.2	ug/l	250	58.8	86	65-130			
1,1-Dichloroethene	205	10	4.2	ug/l	250	5.00	80	60-130			
trans-1,2-Dichloroethene	229	10	3.0	ug/l	250	ND	91	65-130			
2,2-Dichloropropane	331	10	3.4	ug/l	250	ND	132	60-145			
1,2-Dichloropropane	224	10	3.5	ug/l	250	ND	90	65-130			
cis-1,3-Dichloropropene	231	5.0	2.2	ug/l	250	ND	93	70-130			
1,1-Dichloropropene	246	10	2.8	ug/l	250	ND	98	70-135			
trans-1,3-Dichloropropene	248	5.0	3.2	ug/l	250	ND	99	65-135			
Di-isopropyl Ether (DIPE)	209	20	2.5	ug/l	250	ND	84	60-140			
Ethylbenzene	269	10	2.5	ug/l	250	ND	108	65-130			
Ethyl tert-Butyl Ether (ETBE)	241	20	2.8	ug/l	250	ND	97	60-135			
Hexachlorobutadiene	281	10	3.8	ug/l	250	ND	113	60-135			
2-Hexanone	183	60	26	ug/l	250	ND	73	25-140			
Isopropylbenzene	306	10	2.5	ug/l	250	ND	122	70-135			
p-Isopropyltoluene	264	10	2.8	ug/l	250	ND	106	65-130			
Methyl-tert-butyl Ether (MTBE)	243	10	3.2	ug/l	250	ND	97	55-145			
Methylene chloride	194	10	9.5	ug/l	250	ND	77	50-135			

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Project Manager

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BOE-C6-0188828

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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: IRE1711

Sampled: 05/20/08
Received: 05/20/08

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: 8E24007 Extracted: 05/24/08											
Matrix Spike Analyzed: 05/24/2008 (8E24007-MS1)						**Source: IRE1904-08**					
4-Methyl-2-pentanone (MIBK)	197	50	35	ug/l	250	ND	79	40-140			
n-Propylbenzene	265	10	2.7	ug/l	250	ND	106	70-135			
Styrene	273	10	2.0	ug/l	250	ND	109	50-145			
1,1,1,2-Tetrachloroethane	290	10	2.7	ug/l	250	ND	116	65-140			
1,1,2,2-Tetrachloroethane	220	10	3.0	ug/l	250	ND	88	55-135			
Tetrachloroethene	270	10	3.2	ug/l	250	ND	108	65-130			
Toluene	244	10	3.6	ug/l	250	ND	98	70-125			
1,2,3-Trichlorobenzene	263	10	3.0	ug/l	250	ND	105	60-135			
1,2,4-Trichlorobenzene	280	10	4.8	ug/l	250	ND	112	65-135			
1,1,1-Trichloroethane	291	10	3.0	ug/l	250	ND	116	65-140			
1,1,2-Trichloroethane	230	10	3.0	ug/l	250	ND	92	65-130			
Trichloroethene	1170	10	2.6	ug/l	250	1010	65	65-125			*MHA*
Trichlorofluoromethane	285	20	3.4	ug/l	250	ND	114	60-145			
1,2,3-Trichloropropane	238	10	4.0	ug/l	250	ND	95	55-135			
1,3,5-Trimethylbenzene	279	10	2.6	ug/l	250	ND	111	70-130			
1,2,4-Trimethylbenzene	273	10	2.3	ug/l	250	ND	109	55-135			
Vinyl acetate	249	60	10	ug/l	250	ND	99	40-150			
Vinyl chloride	206	5.0	4.0	ug/l	250	ND	82	45-140			
o-Xylene	260	5.0	3.0	ug/l	250	ND	104	65-125			
m,p-Xylenes	528	10	6.0	ug/l	500	ND	106	65-130			
Surrogate: Dibromofluoromethane	*222*			*ug/l*	*250*		*89*	*80-120*			
Surrogate: Toluene-d8	*232*			*ug/l*	*250*		*93*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*236*			*ug/l*	*250*		*94*	*80-120*			
Matrix Spike Dup Analyzed: 05/24/2008 (8E24007-MSD1)						**Source: IRE1904-08**					
Acetone	172	100	45	ug/l	250	ND	69	20-150	2	35	
tert-Amyl Methyl Ether (TAME)	270	20	3.3	ug/l	250	ND	108	60-140	9	30	
Benzene	236	5.0	2.8	ug/l	250	ND	94	65-125	4	20	
Bromobenzene	257	10	2.7	ug/l	250	ND	103	70-125	4	20	
Bromochloromethane	259	10	4.0	ug/l	250	ND	104	65-135	7	25	
Bromodichloromethane	295	10	3.0	ug/l	250	ND	118	70-135	6	20	
Bromoform	258	10	4.0	ug/l	250	ND	103	55-135	5	25	
Bromomethane	231	10	4.2	ug/l	250	ND	92	55-145	2	25	
tert-Butanol (TBA)	1440	250	65	ug/l	1250	ND	115	65-140	3	25	
2-Butanone (MEK)	195	50	47	ug/l	250	ND	78	30-145	5	40	
tert-Butylbenzene	268	10	2.2	ug/l	250	ND	107	65-130	2	20	

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Attention: Michael Rendina

Project ID: Boeing C-6 Torrance (02/26/08)
1155.006
Report Number: IRE1711

Sampled: 05/20/08
Received: 05/20/08

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: 8E24007 Extracted: 05/24/08											
Matrix Spike Dup Analyzed: 05/24/2008 (8E24007-MSD1)						**Source: IRE1904-08**					
n-Butylbenzene	265	10	3.7	ug/l	250	ND	106	65-135	2	20	
sec-Butylbenzene	260	10	2.5	ug/l	250	ND	104	70-125	2	20	
Carbon Disulfide	224	10	4.8	ug/l	250	ND	90	40-140	2	20	
Carbon tetrachloride	326	5.0	2.8	ug/l	250	ND	130	65-140	2	25	
Chlorobenzene	252	10	3.6	ug/l	250	ND	101	75-125	2	20	
Chloroethane	218	20	4.0	ug/l	250	ND	87	55-140	2	25	
Chloroform	264	10	3.3	ug/l	250	ND	105	65-135	5	20	
Chloromethane	168	20	4.0	ug/l	250	ND	67	45-145	4	25	
2-Chlorotoluene	260	10	2.8	ug/l	250	ND	104	65-135	2	20	
4-Chlorotoluene	268	10	2.9	ug/l	250	ND	107	70-135	3	20	
1,2-Dibromo-3-chloropropane	242	20	9.7	ug/l	250	ND	97	45-145	5	30	
Dibromochloromethane	276	10	4.0	ug/l	250	ND	111	65-140	4	25	
1,2-Dibromoethane (EDB)	262	10	4.0	ug/l	250	ND	105	70-130	4	25	
1,3-Dichlorobenzene	264	10	3.5	ug/l	250	ND	106	75-125	3	20	
1,4-Dichlorobenzene	241	10	3.7	ug/l	250	ND	97	75-125	4	20	
1,2-Dichlorobenzene	265	10	3.2	ug/l	250	ND	106	75-125	3	20	
Dichlorodifluoromethane	161	10	2.6	ug/l	250	ND	64	25-155	2	30	
1,1-Dichloroethane	247	10	4.0	ug/l	250	ND	99	65-130	3	20	
1,2-Dichloroethane	278	5.0	2.8	ug/l	250	ND	111	60-140	4	20	
cis-1,2-Dichloroethene	284	10	3.2	ug/l	250	58.8	90	65-130	3	20	
1,1-Dichloroethene	210	10	4.2	ug/l	250	5.00	82	60-130	3	20	
trans-1,2-Dichloroethene	234	10	3.0	ug/l	250	ND	94	65-130	2	20	
2,2-Dichloropropane	328	10	3.4	ug/l	250	ND	131	60-145	1	25	
1,2-Dichloropropane	233	10	3.5	ug/l	250	ND	93	65-130	4	20	
cis-1,3-Dichloropropene	242	5.0	2.2	ug/l	250	ND	97	70-130	5	20	
1,1-Dichloropropene	255	10	2.8	ug/l	250	ND	102	70-135	4	20	
trans-1,3-Dichloropropene	263	5.0	3.2	ug/l	250	ND	105	65-135	6	25	
Di-isopropyl Ether (DIPE)	222	20	2.5	ug/l	250	ND	89	60-140	6	25	
Ethylbenzene	272	10	2.5	ug/l	250	ND	109	65-130	1	20	
Ethyl tert-Butyl Ether (ETBE)	258	20	2.8	ug/l	250	ND	103	60-135	7	25	
Hexachlorobutadiene	292	10	3.8	ug/l	250	ND	117	60-135	4	20	
2-Hexanone	193	60	26	ug/l	250	ND	77	25-140	5	35	
Isopropylbenzene	312	10	2.5	ug/l	250	ND	125	70-135	2	20	
p-Isopropyltoluene	271	10	2.8	ug/l	250	ND	108	65-130	3	20	
Methyl-tert-butyl Ether (MTBE)	262	10	3.2	ug/l	250	ND	105	55-145	7	25	

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BOE-C6-0188829

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Attention: Michael Rendina

Project ID: Boeing C-6 Torrance (02/26/08)
1155.006
Report Number: IRE1711

Sampled: 05/20/08
Received: 05/20/08

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: 8E24007 Extracted: 05/24/08											
Matrix Spike Dup Analyzed: 05/24/2008 (8E24007-MSD1)						**Source: IRE1904-08**					
Methylene chloride	205	10	9.5	ug/l	250	ND	82	50-135	6	20	
4-Methyl-2-pentanone (MIBK)	206	50	35	ug/l	250	ND	82	40-140	4	35	
n-Propylbenzene	270	10	2.7	ug/l	250	ND	108	70-135	2	20	
Styrene	281	10	2.0	ug/l	250	ND	112	50-145	3	30	
1,1,1,2-Tetrachloroethane	300	10	2.7	ug/l	250	ND	120	65-140	3	20	
1,1,2,2-Tetrachloroethane	230	10	3.0	ug/l	250	ND	92	55-135	4	30	
Tetrachloroethene	271	10	3.2	ug/l	250	ND	108	65-130	0	20	
Toluene	253	10	3.6	ug/l	250	ND	101	70-125	4	20	
1,2,3-Trichlorobenzene	278	10	3.0	ug/l	250	ND	111	60-135	5	20	
1,2,4-Trichlorobenzene	291	10	4.8	ug/l	250	ND	116	65-135	4	20	
1,1,1-Trichloroethane	295	10	3.0	ug/l	250	ND	118	65-140	1	20	
1,1,2-Trichloroethane	247	10	3.0	ug/l	250	ND	99	65-130	7	25	
Trichloroethene	1170	10	2.6	ug/l	250	1010	64	65-125	0	20	*MHA*
Trichlorofluoromethane	289	20	3.4	ug/l	250	ND	116	60-145	1	25	
1,2,3-Trichloropropane	250	10	4.0	ug/l	250	ND	100	55-135	5	30	
1,3,5-Trimethylbenzene	287	10	2.6	ug/l	250	ND	115	70-130	3	20	
1,2,4-Trimethylbenzene	280	10	2.3	ug/l	250	ND	112	55-135	3	25	
Vinyl acetate	266	60	10	ug/l	250	ND	106	40-150	7	30	
Vinyl chloride	212	5.0	4.0	ug/l	250	ND	85	45-140	3	30	
o-Xylene	265	5.0	3.0	ug/l	250	ND	106	65-125	2	20	
m,p-Xylenes	534	10	6.0	ug/l	500	ND	107	65-130	1	25	
Surrogate: Dibromofluoromethane	*224*			*ug/l*	*250*		*90*	*80-120*			
Surrogate: Toluene-d8	*236*			*ug/l*	*250*		*94*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*236*			*ug/l*	*250*		*94*	*80-120*			

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Project ID: Boeing C-6 Torrance (02/26/08)
1155.006
Report Number: IRE1711

Sampled: 05/20/08
Received: 05/20/08

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8E20056 Extracted: 05/20/08											
Blank Analyzed: 05/20/2008 (8E20056-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: 05/20/2008 (8E20056-BS1)											
Chloride	4.84	0.50	0.25	mg/l	5.00		97	90-110			
Nitrate-NO3	4.90	0.50	0.25	mg/l	5.00		98	90-110			
Nitrite-NO2	5.08	0.50	0.30	mg/l	5.00		102	90-110			
Sulfate	10.2	0.50	0.20	mg/l	10.0		102	90-110			
Matrix Spike Analyzed: 05/20/2008 (8E20056-MS1)						**Source: IRE1711-01**					
Chloride	161	10	5.0	mg/l	50.0	113	97	80-120			
Nitrate-NO3	48.2	10	5.0	mg/l	50.0	ND	96	80-120			
Nitrite-NO2	52.1	10	6.0	mg/l	50.0	ND	104	80-120			
Sulfate	107	10	4.0	mg/l	100	6.77	101	80-120			
Matrix Spike Analyzed: 05/21/2008 (8E20056-MS2)						**Source: IRE1767-01**					
Chloride	11.0	0.50	0.25	mg/l	5.00	5.66	107	80-120			
Nitrate-NO3	22.6	0.50	0.25	mg/l	5.00	17.5	102	80-120			
Nitrite-NO2	5.49	0.50	0.30	mg/l	5.00	ND	110	80-120			
Sulfate	29.1	0.50	0.20	mg/l	10.0	18.6	104	80-120			
Matrix Spike Dup Analyzed: 05/20/2008 (8E20056-MSD1)						**Source: IRE1711-01**					
Chloride	160	10	5.0	mg/l	50.0	113	95	80-120	1	20	
Nitrate-NO3	48.9	10	5.0	mg/l	50.0	ND	98	80-120	2	20	
Nitrite-NO2	51.6	10	6.0	mg/l	50.0	ND	103	80-120	1	20	
Sulfate	108	10	4.0	mg/l	100	6.77	101	80-120	0	20	

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BOE-C6-0188830

Avocet Environmental Inc.
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Attention: Michael Rendina

Project ID: Boeing C-6 Torrance (02/26/08)
1155.006
Report Number: IRE1711

Sampled: 05/20/08
Received: 05/20/08

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8E21053 Extracted: 05/21/08											
Blank Analyzed: 05/21/2008 (8E21053-BLK1)											
Chloride	ND	0.50	0.25	mg/l							
LCS Analyzed: 05/21/2008 (8E21053-BS1)											
Chloride	4.79	0.50	0.25	mg/l	5.00		96	90-110			*M-3*
Batch: 8E21057 Extracted: 05/21/08											
Blank Analyzed: 05/21/2008 (8E21057-BLK1)											
Alkalinity as CaCO3	ND	2.0	2.0	mg/l							
Duplicate Analyzed: 05/21/2008 (8E21057-DUP1)						**Source: IRE1719-14**					
Alkalinity as CaCO3	106	2.0	2.0	mg/l		104			2	20	
Reference Analyzed: 05/21/2008 (8E21057-SRM1)											
Alkalinity as CaCO3	176	2.0	2.0	mg/l	186		95	90-110			

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Attention: Michael Rendina

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1155.006
Report Number: IRE1711

Sampled: 05/20/08
Received: 05/20/08

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: 8E21091 Extracted: 05/21/08											
Blank Analyzed: 05/21/2008 (8E21091-BLK1)											
Total Organic Carbon	ND	1.0	0.50	mg/l							
LCS Analyzed: 05/21/2008 (8E21091-BS1)											
Total Organic Carbon	10.6	1.0	0.50	mg/l	10.0		106	90-110			
Matrix Spike Analyzed: 05/21/2008 (8E21091-MS1)						**Source: IRE1756-01**					
Total Organic Carbon	6.55	1.0	0.50	mg/l	5.00	1.39	103	80-120			
Matrix Spike Dup Analyzed: 05/21/2008 (8E21091-MSD1)						**Source: IRE1756-01**					
Total Organic Carbon	6.56	1.0	0.50	mg/l	5.00	1.39	103	80-120	0	20	
Batch: 8E22106 Extracted: 05/22/08											
Blank Analyzed: 05/22/2008 (8E22106-BLK1)											
Total Organic Carbon	ND	1.0	0.50	mg/l							
LCS Analyzed: 05/22/2008 (8E22106-BS1)											
Total Organic Carbon	10.2	1.0	0.50	mg/l	10.0		102	90-110			
Matrix Spike Analyzed: 05/22/2008 (8E22106-MS1)						**Source: IRE1703-04**					
Total Organic Carbon	5.92	1.0	0.50	mg/l	5.00	ND	118	80-120			
Matrix Spike Dup Analyzed: 05/22/2008 (8E22106-MSD1)						**Source: IRE1703-04**					
Total Organic Carbon	5.33	1.0	0.50	mg/l	5.00	ND	107	80-120	10	20	

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BOE-C6-0188831

Avocet Environmental Inc.
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Project ID: Boeing C-6 Torrance (02/26/08)
1155.006
Report Number: IRE1711

Sampled: 05/20/08
Received: 05/20/08

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: 080528G28A Extracted: 05/28/08											
LCS Dup Analyzed: 05/28/2008 (080528G28ABD)					**Source: 080528G28ABS**						
Methane	562	1.0	0.39	ug/L	654	0	86	70-130	1	30	
Ethane	1052	1.0	0.50	ug/L	1227	0	86	70-130	1	30	
Ethylene	906	1.0	0.33	ug/L	1145	0	79	70-130	0	30	
LCS Analyzed: 05/28/2008 (080528G28ABS)					**Source:**						
Methane	568	1.0	0.39	ug/L	654	0	87	70-130			
Ethane	1061	1.0	0.50	ug/L	1227	0	86	70-130			
Ethylene	909	1.0	0.33	ug/L	1145	0	79	70-130			
Blank Analyzed: 05/28/2008 (080528G28ALB)					**Source:**						
Methane	0.51	1.0	0.39	ug/L				-			J
Ethane	ND	1.0	0.50	ug/L				-			
Ethylene	ND	1.0	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.

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: IRE1711

Sampled: 05/20/08
Received: 05/20/08

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: 05/21/08											
Blank Analyzed: 05/27/2008 (bvcA negative)						**Source: vcrA negative**					
bvcA	ND	50		2ene copies/L grounc				-			
Matrix spike Analyzed: 05/27/2008 (bvcA positive)						**Source: vcrA positive**					
bvcA	Positive	50		2ene copies/L grounc				-			
Blank Analyzed: 05/27/2008 (tceA negative)						**Source: tceA negative**					
tceA	ND	50		2ene copies/L grounc				-			
Matrix spike Analyzed: 05/27/2008 (tceA positive)						**Source: tceA positive**					
tceA	Positive	50		2ene copies/L grounc				-			
Blank Analyzed: 05/27/2008 (vcrA negative)						**Source: vcrA negative**					
vcrA	ND	50		2ene copies/L grounc				-			
Matrix spike Analyzed: 05/27/2008 (vcrA positive)						**Source: vcrA positive**					
vcrA	Positive	50		2ene copies/L grounc				-			

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Project Manager

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BOE-C6-0188832

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: IRE1711

Sampled: 05/20/08
Received: 05/20/08

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: 05/21/08											
Blank Analyzed: 05/23/2008 ((-) PCR)						**Source: (-) PCR**					
16s rRNA	ND	NA	N/A	NONE				-			
Matrix spike Analyzed: 05/23/2008 ((+) PCR)						**Source: (+) PCR**					
16s rRNA	Positive	NA	N/A	NONE				-			

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: IRE1711

Sampled: 05/20/08
Received: 05/20/08

DATA QUALIFIERS AND DEFINITIONS

B	Analyte was detected in the associated Method Blank.
J	Estimated value below RL and equal to or above MDL.
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-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).
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).
RL1	Reporting limit raised due to sample matrix effects.
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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BOE-C6-0188833

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: IRE1711	Sampled: 05/20/08 Received: 05/20/08

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: IRE1711-01, IRE1711-02, IRE1711-03, IRE1711-04, IRE1711-05

Idaho State University - Dept. of Bio Sci - MRCF

650 Memorial Drive - Pocatello, ID 83209

Analysis Performed: DHC Assay
Samples: IRE1711-01, IRE1711-02, IRE1711-03, IRE1711-04, IRE1711-05

ISU Molecular

Method Performed: qPCR TaqMan assay
Samples: IRE1711-01, IRE1711-02, IRE1711-03, IRE1711-04, IRE1711-05

Method Performed: Universal Bacterial PCR
Samples: IRE1711-01, IRE1711-02, IRE1711-03, IRE1711-04, IRE1711-05

Microseeps-SUB

220 William Pitt Way - Pittsburgh, PA 15238

Analysis Performed: VFA-Microseeps OUT
Samples: IRE1711-01, IRE1711-02, IRE1711-03, IRE1711-04, IRE1711-05

TestAmerica Irvine

Trupti Mistry
Project Manager

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IRE1711

Sheet ___ of ___

CHAIN OF CUSTODY RECORD

AVOCET ENVIRONMENTAL, INC.
17461 Derian Avenue, Suite 100
Irvine, California 92618-2327
TEL (949) 296-0977
FAX (949) 296-0978

Project Information:

Site Name	BCRE Former C-6 Facility
Site Address	Los Angeles, CA
Project No	1155.006
Project Manager	Michael Rendina
Sampled By	Brian Barsumian
Turn-Around-Time	Standard TAT

Analyses

Sample Identification	Sample Date	Sample Time	Matrix	No. of Cntrns.	Lab I.D. Number	VOCs EPA 8260B	TOC EPA 9060 Modified	Volatile Fatty Acids IC Method 8M23G (Microseeps)	Dissolved Hydrocarbon Gases (DHGs) Methane, Ethane, Ethene - RSK 175	Alkalinity EPA 310.1	Anions (NO3, NO2, Cl, SO4) EPA 300.3	DHC PCR (NorthWind) 24 HR HTI	Comments
AW0073C_WG20080520_01	05/20/08	0958	Water	12		X	X	X	X	X	X	X	
AW0075UB_WG20080520_01	05/20/08	0845	Water	12		X	X	X	X	X	X	X	
AW0076UB_WG20080520_01	05/20/08	1423	Water	12		X	X	X	X	X	X	X	
AW0077UB_WG20080520_01	05/20/08	1109	Water	12		X	X	X	X	X	X	X	
EWB002_WG20080520_01	05/20/08	1322	Water	12		X	X	X	X	X	X	X	
EWB002_WG20080520_02	05/20/08	1322	Water	3		X							
TB_AVO20080520_01	05/20/08	—	Water	3		X							

Relinquished by	Company	Received by	Company
Printed Name: Brian Barsumian Date: 5/20/08	Avocet Environmental, Inc.	Printed Name: Vince Padilla Date: 5/20/08	TestAmerica - Irvine
Signature: [signature] Time: 1452		Signature: [signature] Time: 1452	
Printed Name: [signature] Date: 5/20/08		Printed Name: [signature] Date: 5/20/08	
Signature: [signature] Time: 1530		Signature: [signature] Time: 1530	TA/Irv. 7.3/7K
Printed Name: Date:		Printed Name: Date:	
Signature: Time:		Signature: Time:	

Sample Receipt	Billing Information	Special Instructions
Total Containers	Michael Rendina, P.G. AVOCET ENVIRONMENTAL, INC. 16 Technology Drive, Suite 154 Irvine, CA 92618-2327	DHC PCR Analyses require overnight delivery to NorthWind in Pittsburgh, PA Primary DHG analyses will continue to be analyzed by ATL. Please bill to Avocet. Please report electronically in accordance with Boeing standards. If any questions, please call Mike Rendina @ (949) 296 0977 Ext.103
Temperature °C ___ °F ___ Lab N	Bill To:	
COC Seal (Y/N/NA) Intact (Y/N)		

S:\Projects\1155 Boeing Former C-6 Facility\Groundwater Monitoring\May 2008\COC_AVO20080520.xls

BOE-C6-0188834

AirTECHNOLOGY Laboratories, Inc.

June 2, 2008

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: IRE1711
Lab Number: A8052105-01/05

Enclosed are results for sample(s) received 5/21/08 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
IRE1711

A8052105-01/05

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: 14 °C Ice: Y / N

Analysis	Units	Due	Expires	Comments
Sample ID: IRE1711-01	**Water**		Sampled: 05/20/08 09:58	-01
Diss. Gasses-OUT	mg/l	06/02/08	06/03/08 09:58	sub=ATL;RL=1-C2H4,C2H6,CH4,Elmnt EDD,Boeing,Jflags
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: IRE1711-02	**Water**		Sampled: 05/20/08 08:45	-02
Diss. Gasses-OUT	mg/l	06/02/08	06/03/08 08:45	sub=ATL;RL=1-C2H4,C2H6,CH4,Elmnt EDD,Boeing,Jflags
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: IRE1711-03	**Water**		Sampled: 05/20/08 14:23	-03
Diss. Gasses-OUT	mg/l	06/02/08	06/03/08 14:23	sub=ATL;RL=1-C2H4,C2H6,CH4,Elmnt EDD,Boeing,Jflags
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: IRE1711-04	**Water**		Sampled: 05/20/08 11:09	-04
Diss. Gasses-OUT	mg/l	06/02/08	06/03/08 11:09	sub=ATL;RL=1-C2H4,C2H6,CH4,Elmnt EDD,Boeing,Jflags
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: IRE1711-05	**Water**		Sampled: 05/20/08 13:22	-05
Diss. Gasses-OUT	mg/l	06/02/08	06/03/08 13:22	sub=ATL;RL=1-C2H4,C2H6,CH4,Elmnt EDD,Boeing,Jflags
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
			5/21/08 0715
	5/21/08 0836	Tanjala	5/21/08 8:36

BOE-C6-0188835

Client: TestAmerica
Attn: Trupti Mistry

Client's Project: IRE1711
Date Received: 5/21/2008
Matrix: Water
Units: ug/L

Dissolved Gases by EPA Procedure RSKSOP-175

Lab No.:			A8052105-01		A8052105-02		A8052105-03		A8052105-04		A8052105-05	
Client Sample I.D.:			IRE1711-01		IRE1711-02		IRE1711-03		IRE1711-04		IRE1711-05	
Date Sampled:			5/20/2008		5/20/2008		5/20/2008		5/20/2008		5/20/2008	
Date Analyzed:			5/28/2008		5/28/2008		5/28/2008		5/28/2008		5/28/2008	
Analyst Initials:			DT		DT		DT		DT		DT	
Data File:			28may026		28may027		28may028		28may029		28may030	
QC Batch:			080528GC8A2		080528GC8A2		080528GC8A2		080528GC8A2		080528GC8A2	
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	3,600	1.0	2,600	1.0	3,000	1.0	10,000	1.0	12,000
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	3.7	1.0	20	1.0	56	1.0	120	1.0	14

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: 6-2-08

The cover letter is an integral part of this analytical report

QC Batch No.: 080528GC8A2
Matrix: Water
Units: ug/L

QC for Dissolved Gases by EPA Procedure RSKSOP-175

Lab No.:			Method Blank		LCS		LCSD			
Date Analyzed:			05/28/08		05/28/08		05/28/08			
Analyst Initials:			DT		DT		DT			
Datafile:			28may023		28may021		28may022			
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	0.51 J	87	70-130%	86	70-130%	1.0	<30
Ethane	1.0	0.50	1.0	ND	86	70-130%	86	70-130%	0.8	<30
Ethylene	1.0	0.33	1.0	ND	79	70-130%	79	70-130%	0.3	<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: 6-2-08

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

BOE-C6-0188836

North Wind

Boeing Site IRE1711 Quantitative PCR Analytical Summary

May 30, 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 IRE1711 samples and volume filtered for DNA extraction.

Well Location	Matrix–Date Sampled	Condition Received/ Observations	Volume Filtered (L)
IRE1711-01	Groundwater–05/20/2008	4°C, bottles intact	0.5
IRE1711-02	Groundwater–05/20/2008	4°C, bottles intact	0.5
IRE1711-03	Groundwater–05/20/2008	4°C, bottles intact	0.5
IRE1711-04	Groundwater–05/20/2008	4°C, bottles intact	0.5
IRE1711-05	Groundwater–05/20/2008	4°C, bottles intact	0.35

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 0.35 and 0.5 L of groundwater was filtered using sterile 0.2- m 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 L 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- L PCR reaction included 0.4 mg mL-1 molecular-grade BSA (Sigma Chemicals), 5X PCR buffer (Promega), 0.5 M each forward and reverse primer (Invitrogen), 1 U Taq DNA polymerase (Promega), 0.2 mM each dNTP (Invitrogen), 1 L 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 L of the DNA extraction. The reporting limit is 50 gene copies per L 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 BHQ quencher (Biosearch Technologies). For the *bvcA* gene probe, a Cy5 label is used on the 5-foot end and for the *vcrA* gene probe, 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-C6-0188837

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

Laboratory Results

Total pages in data package: 69

Lab Sample #	Client Sample ID
P0805308-01	IRE1711-01
P0805308-02	IRE1711-02
P0805308-03	IRE1711-03
P0805308-04	IRE1711-04
P0805308-05	IRE1711-05

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 ***Date:*** June 17, 2008

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

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 IRE1711 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 IRE1711 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)*	
IRE1711-01	3536	+/NA	2.52E+08	±	1.52E+07	7.65E+07	±	1.63E+06	3.2E+07	±	5.76E+06		ND
IRE1711-02	1428	+/NA	6.33E+08	±	9.42E+06	2.5872E+08	±	2.01E+07	8.0E+07	±	8.32E+06		ND
IRE1711-03	1652	+/NA	2.61E+08	±	1.10E+07	7.6572E+07	±	2.92E+06	3.4E+07	±	5.16E+06		ND
IRE1711-04	15746	+/NA	2.73E+09	±	1.81E+08	3.9096E+08	±	3.88E+07	4.7E+08	±	7.21E+07		ND
IRE1711-05	28957	+/NA	2.77E+08	±	4.65E+07	1.6010E+08	±	8.96E+06	1.5E+07	±	1.91E+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 was detected above the reporting limit (50 gene copies/µL of DNA extraction) in all samples. Reductase gene *tceA* and *bvcA* were found above the reporting limit in all the samples. Reductase gene *vcrA* was not detected above the method detection limit (2 gene copies/µL of DNA extraction) in any sample.

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

Page: Page 2 of 11
Lab Proj #: P0805308
Report Date: 06/17/08
Client Proj Name: IRE1711
Client Proj #: IRE1711

Case Narrative: These samples were prepared on 6/2/08 prior to the instrument failure. The percent recovery on the MS and RPD for Acetic and Lactic are out of criteria. The percent recovery on the MSD for Pyruvic is out of criteria. All other QA/QC requirements 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
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Address: 17461 Derian Ave
Suite 100
Irvine, CA 92614

Page: Page 3 of 11
Lab Proj #: P0805308
Report Date: 06/17/08
Client Proj Name: IRE1711
Client Proj #: IRE1711

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
IRE1711-01	Water	P0805308-01	20 May. 08 9:58	21 May. 08 10:21

Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	By
SemiVolatiles							
N Acetic Acid	M	1.30	0.07	mg/L	AM23G	6/16/08	jb
N Butyric Acid	U	< 0.07	0.07	mg/L	AM23G	6/16/08	jb
N Hexanoic Acid		0.15	0.10	mg/L	AM23G	6/16/08	jb
N I-Hexanoic Acid	U	< 0.10	0.10	mg/L	AM23G	6/16/08	jb
N I-Pentanoic Acid	U	< 0.07	0.07	mg/L	AM23G	6/16/08	jb
N Lactic Acid and HIBA	M	0.22	0.10	mg/L	AM23G	6/16/08	jb
N Pentanoic Acid	U	< 0.07	0.07	mg/L	AM23G	6/16/08	jb
N Propionic Acid	U	< 0.07	0.07	mg/L	AM23G	6/16/08	jb
N Pyruvic Acid	UM	< 0.07	0.07	mg/L	AM23G	6/16/08	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-C6-0188839

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

Page: Page 4 of 11
Lab Proj #: P0805308
Report Date: 06/17/08
Client Proj Name: IRE1711
Client Proj #: IRE1711

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
IRE1711-02	Water	P0805308-02	20 May. 08 8:45	21 May. 08 10:21

Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	By
SemiVolatiles							
N Acetic Acid		430.00	7.00	mg/L	AM23G	6/17/08	jb
N Butyric Acid		31.00	0.70	mg/L	AM23G	6/16/08	jb
N Hexanoic Acid		1.70	0.10	mg/L	AM23G	6/14/08	jb
N i-Hexanoic Acid		0.69	0.10	mg/L	AM23G	6/14/08	jb
N i-Pentanoic Acid		7.70	0.70	mg/L	AM23G	6/16/08	jb
N Lactic Acid and HIBA		21.00	10.00	mg/L	AM23G	6/17/08	jb
N Pentanoic Acid		8.60	0.70	mg/L	AM23G	6/16/08	jb
N Propionic Acid		110.00	7.00	mg/L	AM23G	6/17/08	jb
N Pyruvic Acid	M	4.20	0.07	mg/L	AM23G	6/14/08	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 #: P0805308
Report Date: 06/17/08
Client Proj Name: IRE1711
Client Proj #: IRE1711

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
IRE1711-03	Water	P0805308-03	20 May. 08 14:23	21 May. 08 10:21

Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	By
SemiVolatiles							
N Acetic Acid		430.00	7.00	mg/L	AM23G	6/17/08	jb
N Butyric Acid		16.00	0.70	mg/L	AM23G	6/17/08	jb
N Hexanoic Acid		1.00	0.10	mg/L	AM23G	6/14/08	jb
N i-Hexanoic Acid		0.50	0.10	mg/L	AM23G	6/14/08	jb
N i-Pentanoic Acid		5.90	0.70	mg/L	AM23G	6/17/08	jb
N Lactic Acid and HIBA		20.00	10.00	mg/L	AM23G	6/17/08	jb
N Pentanoic Acid		3.50	0.07	mg/L	AM23G	6/14/08	jb
N Propionic Acid		86.00	7.00	mg/L	AM23G	6/17/08	jb
N Pyruvic Acid	M	3.40	0.07	mg/L	AM23G	6/14/08	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-C6-0188840

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

Page: Page 6 of 11
Lab Proj #: P0805308
Report Date: 06/17/08
Client Proj Name: IRE1711
Client Proj #: IRE1711

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
IRE1711-04	Water	P0805308-04	20 May. 08 11:09	21 May. 08 10:21

Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	By
SemiVolatiles							
N Acetic Acid		320.00	7.00	mg/L	AM23G	6/17/08	jb
N Butyric Acid		15.00	0.70	mg/L	AM23G	6/17/08	jb
N Hexanoic Acid		1.40	0.10	mg/L	AM23G	6/14/08	jb
N i-Hexanoic Acid		0.51	0.10	mg/L	AM23G	6/14/08	jb
N i-Pentanoic Acid		4.10	0.70	mg/L	AM23G	6/17/08	jb
N Lactic Acid and HIBA		18.00	10.00	mg/L	AM23G	6/17/08	jb
N Pentanoic Acid		3.90	0.07	mg/L	AM23G	6/14/08	jb
N Propionic Acid		51.00	0.70	mg/L	AM23G	6/17/08	jb
N Pyruvic Acid	M	3.30	0.07	mg/L	AM23G	6/14/08	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 7 of 11
Lab Proj #: P0805308
Report Date: 06/17/08
Client Proj Name: IRE1711
Client Proj #: IRE1711

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
IRE1711-05	Water	P0805308-05	20 May. 08 13:22	21 May. 08 10:21

Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	By
SemiVolatiles							
N Acetic Acid		230.00	7.00	mg/L	AM23G	6/17/08	jb
N Butyric Acid		10.00	0.70	mg/L	AM23G	6/17/08	jb
N Hexanoic Acid		1.00	0.10	mg/L	AM23G	6/14/08	jb
N i-Hexanoic Acid		0.67	0.10	mg/L	AM23G	6/14/08	jb
N i-Pentanoic Acid		7.20	0.70	mg/L	AM23G	6/17/08	jb
N Lactic Acid and HIBA		18.00	10.00	mg/L	AM23G	6/17/08	jb
N Pentanoic Acid		3.80	0.07	mg/L	AM23G	6/14/08	jb
N Propionic Acid		65.00	0.70	mg/L	AM23G	6/17/08	jb
N Pyruvic Acid		4.20	0.70	mg/L	AM23G	6/17/08	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-C6-0188841

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

Page: Page 8 of 11
Lab Proj #: P0805308
Report Date: 06/17/08
Client Proj Name: IRE1711
Client Proj #: IRE1711

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

M080602017-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

M080602017-LCS

	Result		TrueSpikeConc.	%Recovery	Ctl Limits
Acetic Acid	2.20	mg/L	2.00	110.00	70 - 130
Propionic Acid	2.30	mg/L	2.00	115.00	70 - 130
Butyric Acid	2.30	mg/L	2.00	115.00	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	2.20	mg/L	2.00	110.00	70 - 130
Pentanoic Acid	2.20	mg/L	2.00	110.00	70 - 130
i-Hexanoic Acid	2.20	mg/L	2.00	110.00	70 - 130
Hexanoic Acid	2.00	mg/L	2.00	100.00	70 - 130

P0805308-01A-MS

	Result		TrueSpikeConc.	%Recovery	Ctl Limits
Acetic Acid	4.80	mg/L	2.00	175.00	70 - 130
Propionic Acid	1.90	mg/L	2.00	95.00	70 - 130
Butyric Acid	1.90	mg/L	2.00	95.00	70 - 130
Lactic Acid and HIBA	3.50	mg/L	2.00	164.00	70 - 130
Pyruvic Acid	1.40	mg/L	2.00	70.00	70 - 130
i-Pentanoic Acid	2.00	mg/L	2.00	100.00	70 - 130
Pentanoic Acid	1.80	mg/L	2.00	90.00	70 - 130
i-Hexanoic Acid	2.00	mg/L	2.00	100.00	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 #: P0805308
Report Date: 06/17/08
Client Proj Name: IRE1711
Client Proj #: IRE1711

P0805308-01A-MS

	Result		TrueSpikeConc.	%Recovery	Ctl Limits
Hexanoic Acid	1.80	mg/L	2.00	83.00	70 - 130

P0805308-01A-MSD

	Result		TrueSpikeConc.	%Recovery	Ctl Limits	RPD	RPD Ctl Limits
Acetic Acid	3.40	mg/L	2.00	105.00	70 - 130	34.15	0 - 30
Propionic Acid	1.80	mg/L	2.00	90.00	70 - 130	5.41	0 - 30
Butyric Acid	1.80	mg/L	2.00	90.00	70 - 130	5.41	0 - 30
Lactic Acid and HIBA	2.20	mg/L	2.00	99.00	70 - 130	45.61	0 - 30
Pyruvic Acid	1.30	mg/L	2.00	65.00	70 - 130	7.41	0 - 30
i-Pentanoic Acid	1.80	mg/L	2.00	90.00	70 - 130	10.53	0 - 30
Pentanoic Acid	1.70	mg/L	2.00	85.00	70 - 130	5.71	0 - 30
i-Hexanoic Acid	1.80	mg/L	2.00	90.00	70 - 130	10.53	0 - 30
Hexanoic Acid	1.70	mg/L	2.00	78.00	70 - 130	5.71	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-C6-0188842

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

Page: Page 10 of 11
Lab Proj #: P0805308
Report Date: 06/17/08
Client Proj Name: IRE1711
Client Proj #: IRE1711

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

M080617022-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
Hexanoic Acid	< 0.10	mg/L		0.10		- NA

M080617022-LCS

	Result		TrueSpikeConc.	%Recovery	Ctl Limits
Acetic Acid	2.00	mg/L	2.00	100.00	70 - 130
Propionic Acid	2.10	mg/L	2.00	105.00	70 - 130
Butyric Acid	2.10	mg/L	2.00	105.00	70 - 130
Lactic Acid and HIBA	1.70	mg/L	2.00	85.00	70 - 130
Pyruvic Acid	1.50	mg/L	2.00	75.00	70 - 130
i-Pentanoic Acid	2.10	mg/L	2.00	105.00	70 - 130
Pentanoic Acid	2.00	mg/L	2.00	100.00	70 - 130
Hexanoic Acid	2.00	mg/L	2.00	100.00	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 #: P0805308
Report Date: 06/17/08
Client Proj Name: IRE1711
Client Proj #: IRE1711

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

M080617023-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

M080617023-LCS

	Result		TrueSpikeConc.	%Recovery	Ctl Limits
Acetic Acid	2.00	mg/L	2.00	100.00	70 - 130
Propionic Acid	2.10	mg/L	2.00	105.00	70 - 130
Butyric Acid	2.10	mg/L	2.00	105.00	70 - 130
Lactic Acid and HIBA	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

BOE-C6-0188843

Chain of Custody Documents

SUBCONTRACT ORDER

TestAmerica Irvine

IRE1711

P0805308

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: IRE1711-01	**Water**		**Sampled: 05/20/08 09:58**	
VFA-Microseeps OUT	mg/l	06/04/08	05/27/08 09:58	Microseeps; IC; J&Bflags;TestAmerica excel EDD
Containers Supplied:				
40 mL Amber VOA Vial (H)	40 mL Amber VOA Vial (I)			
Sample ID: IRE1711-02	**Water**		**Sampled: 05/20/08 08:45**	
VFA-Microseeps OUT	mg/l	06/04/08	05/27/08 08:45	Microseeps; IC; J&Bflags;TestAmerica excel EDD
Containers Supplied:				
40 mL Amber VOA Vial (H)	40 mL Amber VOA Vial (I)			
Sample ID: IRE1711-03	**Water**		**Sampled: 05/20/08 14:23**	
VFA-Microseeps OUT	mg/l	06/04/08	05/27/08 14:23	Microseeps; IC; J&Bflags;TestAmerica excel EDD
Containers Supplied:				
40 mL Amber VOA Vial (H)	40 mL Amber VOA Vial (I)			
Sample ID: IRE1711-04	**Water**		**Sampled: 05/20/08 11:09**	
VFA-Microseeps OUT	mg/l	06/04/08	05/27/08 11:09	Microseeps; IC; J&Bflags;TestAmerica excel EDD
Containers Supplied:				
40 mL Amber VOA Vial (H)	40 mL Amber VOA Vial (I)			
Sample ID: IRE1711-05	**Water**		**Sampled: 05/20/08 13:22**	
VFA-Microseeps OUT	mg/l	06/04/08	05/27/08 13:22	Microseeps; IC; J&Bflags;TestAmerica excel EDD
Containers Supplied:				
40 mL Amber VOA Vial (H)	40 mL Amber VOA Vial (I)			

Released By	5/20/08 17:00 Date/Time	Received By FedEx	5/20/08 1700 Date/Time
Released By	Date/Time	Received By	5/4 Date/Time

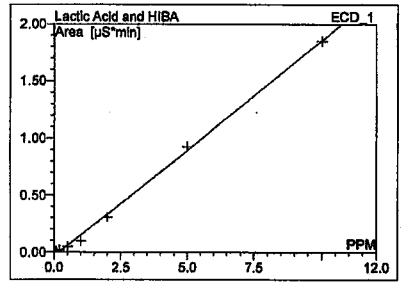
BOE-C6-0188844

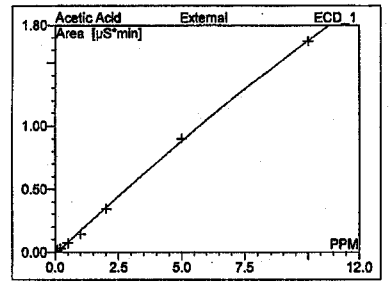
Volatile Fatty Acid Data

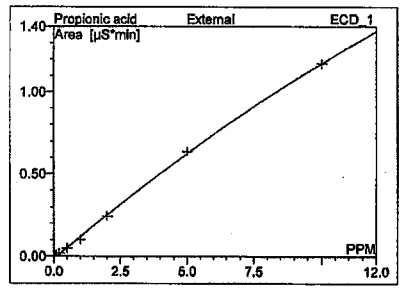
Operator:chemware Timebase:DX-500 Sequence:LLVFA 061208

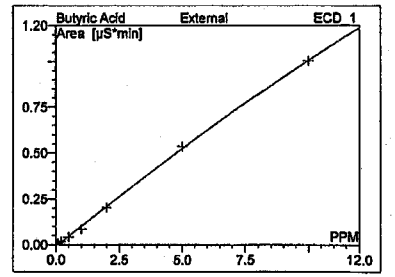
Calibration Batch Report

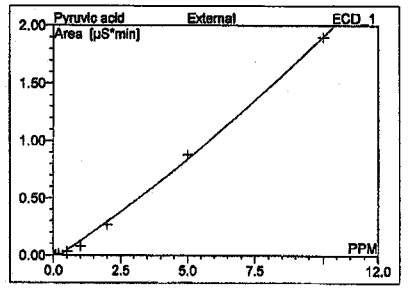
Sequence	LLVFA061208	Inj. Vol.		Injection		Inj. Vol.	
Method							
Program	PWM0707/6AA			Operator		SEMVOL13	
Inj. Date/time	061208			Run time		30:00	

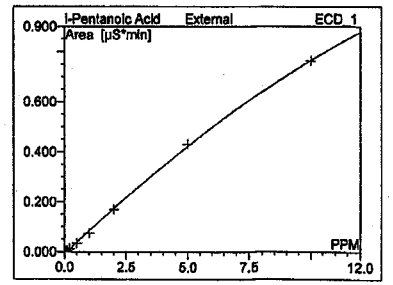










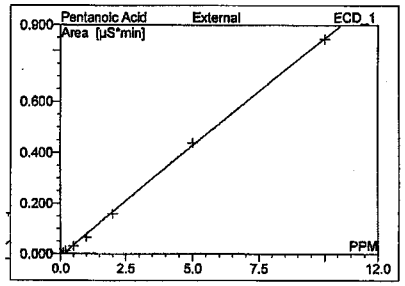


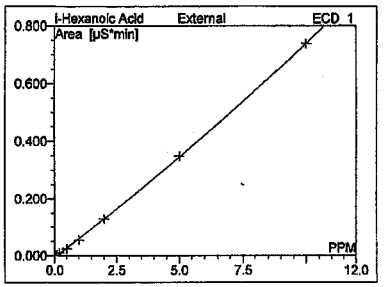
CATION_report/Calibration(Batch)

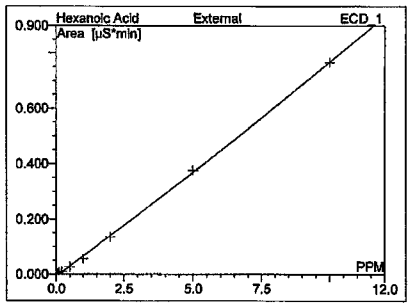
PeakNet 6 (r) Dionex 2001
Version 6.60 Build 1428

BOE-C6-0188845

Sequence	LLVFA 061208	Inj.Vol.	1.0
Program	PWM070716AA	Operator	n.a.
Inj.Date/Time	06/12/08	Run Time	30.00







Peak Name	Cal.Mode	Cal.Type	Slope	#Points	Rel.Std.Dev.	R-Square
					%	%
QUINIC	Total	QOff	0.000	8	n.a.	n.a.
Lactic Acid and HIBA	Total	QOff	0.181	8	8.697	99.795
Acetic Acid	Total	QOff	0.190	8	4.971	99.922
Propionic acid	Total	QOff	0.137	8	4.660	99.931
FORMIC	Total	QOff	0.000	8	n.a.	n.a.
Butyric Acid	Total	QOff	0.112	8	4.526	99.936
Pyruvic acid	Total	QOff	0.156	8	8.970	99.802
i-Pentanoic Acid	Total	QOff	0.095	8	4.218	99.941
Pentanoic Acid	Total	QOff	0.090	8	5.116	99.922
BAK	Total	QOff	0.000	8	n.a.	n.a.
i-Hexanoic Acid	Total	QOff	0.066	8	2.494	99.982
Hexanoic Acid	Total	QOff	0.073	8	4.219	99.949

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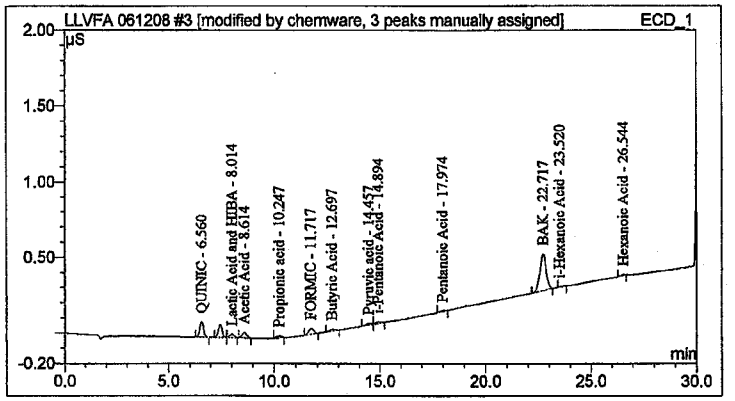
Sample Analysis Report

Sample Name:	LLVFA ICAL 1	**Sequence No:**	3
Sequence Name:	LLVFA 061208	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	6/12/2008 11:46 AM	**Analytical Method:**	AM23G
System Operator:	chemware	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	6.560	0.022	0.101	BMB	n.a.
3	Lactic Acid and HIBA	8.014	0.005	0.020	MB^	0.2014
4	Acetic Acid	8.614	0.008	0.033	BMB	0.1315
5	Propionic acid	10.247	0.003	0.012	BMB	0.1249
6	FORMIC	11.717	0.010	0.038	BMB	n.a.
7	Butyric Acid	12.697	0.004	0.012	BMB*^	0.1256
8	Pyruvic acid	14.457	0.003	0.011	BM *^	0.2249
9	i-Pentanoic Acid	14.894	0.003	0.010	MB*	0.1252
10	Pentanoic Acid	17.974	0.002	0.006	BMB*	0.1407
11	BAK	22.717	0.083	0.237	BMB	n.a.
12	i-Hexanoic Acid	23.520	0.001	0.003	BMB*	0.1014
13	Hexanoic Acid	26.544	0.001	0.006	BMB	0.1202



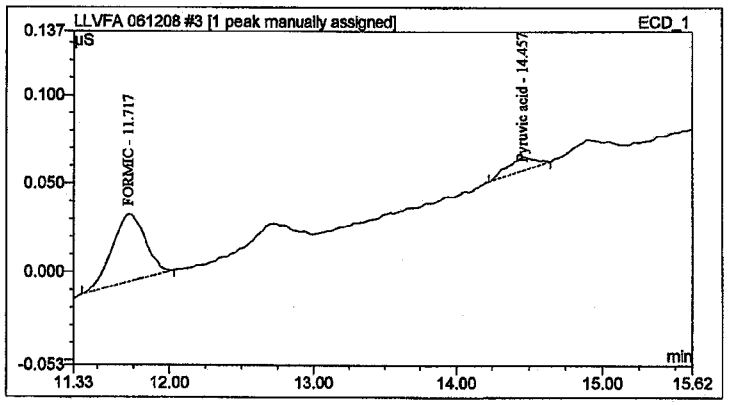
BOE-C6-0188846

MICROSEEPS

Sample Analysis Report

Sample Name:	LLVFA ICAL 1	**Sequence No:**	3
Sequence Name:	LLVFA 061208	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	6/12/2008 11:46 AM	**Analytical Method:**	AM23G
System Operator:	chemware	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	6.560	0.022	0.101	BMB	n.a.
3	Lactic Acid and HIBA	8.014	0.005	0.020	MB^	0.2014
4	Acetic Acid	8.614	0.008	0.033	BMB	0.1315
5	Propionic acid	10.247	0.003	0.012	BMB	0.1249
6	FORMIC	11.717	0.010	0.038	BMB	n.a.
7	Pyruvic acid	14.457	0.002	0.007	BMB	0.2175
8	BAK	22.717	0.083	0.237	BMB	n.a.
9	Hexanoic Acid	26.544	0.001	0.006	BMB	0.1202

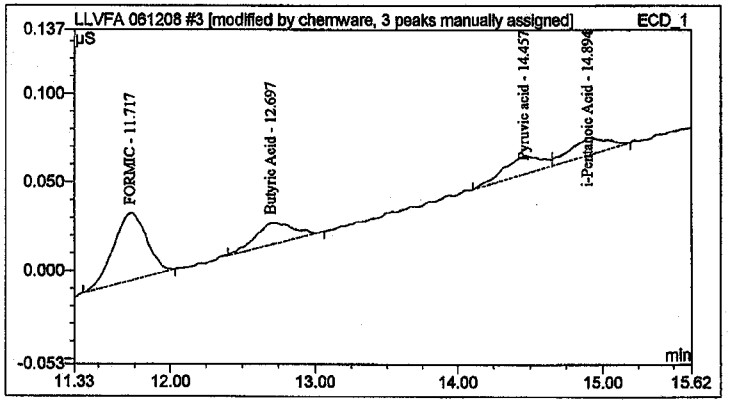


MICROSEEPS

Sample Analysis Report

Sample Name:	LLVFA ICAL 1	**Sequence No:**	3
Sequence Name:	LLVFA 061208	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	6/12/2008 11:46 AM	**Analytical Method:**	AM23G
System Operator:	chemware	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	6.560	0.022	0.101	BMB	n.a.
3	Lactic Acid and HIBA	8.014	0.005	0.020	MB^	0.2014
4	Acetic Acid	8.614	0.008	0.033	BMB	0.1315
5	Propionic acid	10.247	0.003	0.012	BMB	0.1249
6	FORMIC	11.717	0.010	0.038	BMB	n.a.
7	Butyric Acid	12.697	0.004	0.012	BMB*^	0.1256
8	Pyruvic acid	14.457	0.003	0.011	BM *^	0.2249
9	i-Pentanoic Acid	14.894	0.003	0.010	MB*	0.1252
10	BAK	22.717	0.083	0.237	BMB	n.a.
11	Hexanoic Acid	26.544	0.001	0.006	BMB	0.1202



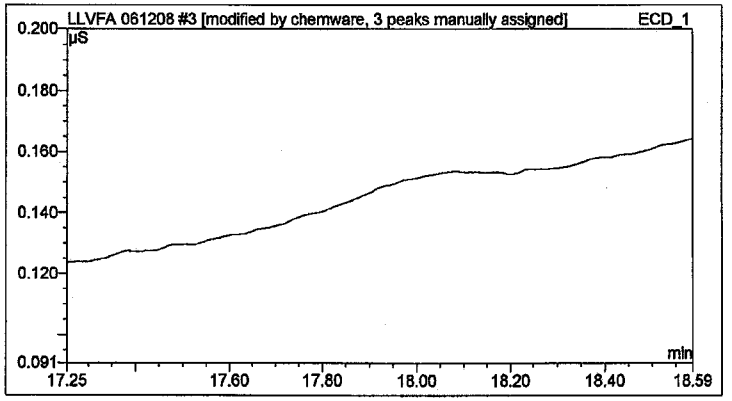
BOE-C6-0188847

MICROSEEPS

Sample Analysis Report

Sample Name:	LLVFA ICAL 1	**Sequence No:**	3
Sequence Name:	LLVFA 061208	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	6/12/2008 11:46 AM	**Analytical Method:**	AM23G
System Operator:	chemware	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	6.560	0.022	0.101	BMB	n.a.
3	Lactic Acid and HIBA	8.014	0.005	0.020	MB^	0.2014
4	Acetic Acid	8.614	0.008	0.033	BMB	0.1315
5	Propionic acid	10.247	0.003	0.012	BMB	0.1249
6	FORMIC	11.717	0.010	0.038	BMB	n.a.
7	Butyric Acid	12.697	0.004	0.012	BMB*^	0.1256
8	Pyruvic acid	14.457	0.003	0.011	BM *^	0.2249
9	i-Pentanoic Acid	14.894	0.003	0.010	MB*	0.1252
10	BAK	22.717	0.083	0.237	BMB	n.a.
11	Hexanoic Acid	26.544	0.001	0.006	BMB	0.1202

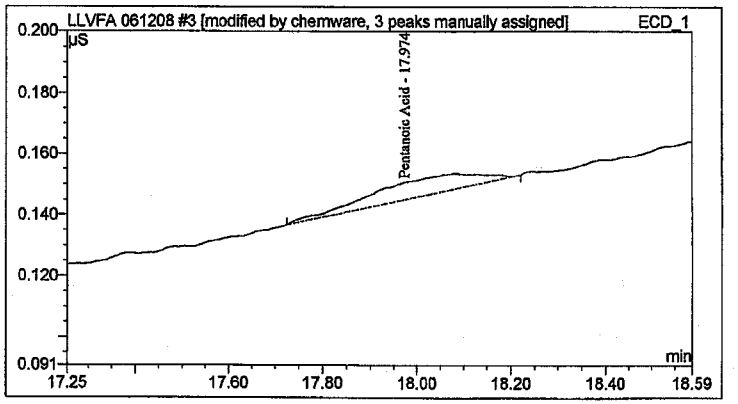


MICROSEEPS

Sample Analysis Report

Sample Name:	LLVFA ICAL 1	**Sequence No:**	3
Sequence Name:	LLVFA 061208	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	6/12/2008 11:46 AM	**Analytical Method:**	AM23G
System Operator:	chemware	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	6.560	0.022	0.101	BMB	n.a.
3	Lactic Acid and HIBA	8.014	0.005	0.020	MB^	0.2014
4	Acetic Acid	8.614	0.008	0.033	BMB	0.1315
5	Propionic acid	10.247	0.003	0.012	BMB	0.1249
6	FORMIC	11.717	0.010	0.038	BMB	n.a.
7	Butyric Acid	12.697	0.004	0.012	BMB*^	0.1256
8	Pyruvic acid	14.457	0.003	0.011	BM *^	0.2249
9	i-Pentanoic Acid	14.894	0.003	0.010	MB*	0.1252
10	Pentanoic Acid	17.974	0.002	0.006	BMB*	0.1407
11	BAK	22.717	0.083	0.237	BMB	n.a.
12	Hexanoic Acid	26.544	0.001	0.006	BMB	0.1202



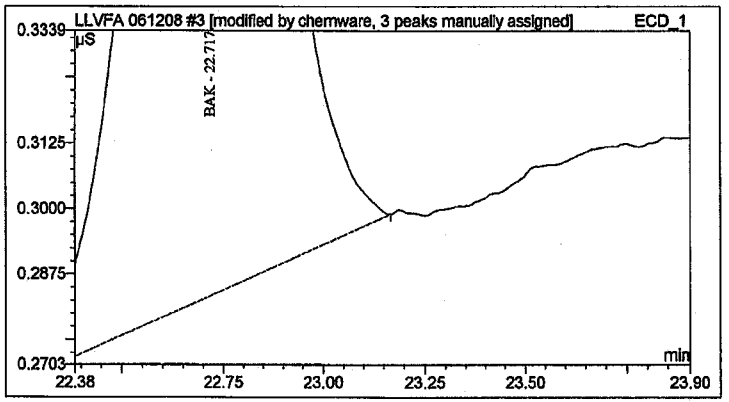
BOE-C6-0188848

MICROSEEPS

Sample Analysis Report

Sample Name:	LLVFA ICAL 1	**Sequence No:**	3
Sequence Name:	LLVFA 061208	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	6/12/2008 11:46 AM	**Analytical Method:**	AM23G
System Operator:	chemware	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	6.560	0.022	0.101	BMB	n.a.
3	Lactic Acid and HIBA	8.014	0.005	0.020	MB^	0.2014
4	Acetic Acid	8.614	0.008	0.033	BMB	0.1315
5	Propionic acid	10.247	0.003	0.012	BMB	0.1249
6	FORMIC	11.717	0.010	0.038	BMB	n.a.
7	Butyric Acid	12.697	0.004	0.012	BMB*^	0.1256
8	Pyruvic acid	14.457	0.003	0.011	BM *^	0.2249
9	I-Pentanoic Acid	14.894	0.003	0.010	MB*	0.1252
10	Pentanoic Acid	17.974	0.002	0.006	BMB*	0.1407
11	BAK	22.717	0.083	0.237	BMB	n.a.
12	Hexanoic Acid	26.544	0.001	0.006	BMB	0.1202

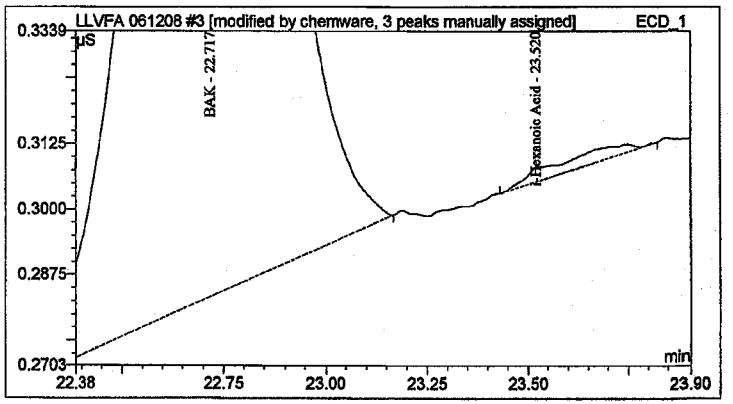


MICROSEEPS

Sample Analysis Report

Sample Name:	LLVFA ICAL 1	**Sequence No:**	3
Sequence Name:	LLVFA 061208	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	6/12/2008 11:46 AM	**Analytical Method:**	AM23G
System Operator:	chemware	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	6.560	0.022	0.101	BMB	n.a.
3	Lactic Acid and HIBA	8.014	0.005	0.020	MB^	0.2014
4	Acetic Acid	8.614	0.008	0.033	BMB	0.1315
5	Propionic acid	10.247	0.003	0.012	BMB	0.1249
6	FORMIC	11.717	0.010	0.038	BMB	n.a.
7	Butyric Acid	12.697	0.004	0.012	BMB*^	0.1256
8	Pyruvic acid	14.457	0.003	0.011	BM *^	0.2249
9	I-Pentanoic Acid	14.894	0.003	0.010	MB*	0.1252
10	Pentanoic Acid	17.974	0.002	0.006	BMB*	0.1407
11	BAK	22.717	0.083	0.237	BMB	n.a.
12	I-Hexanoic Acid	23.520	0.001	0.003	BMB*	0.1014
13	Hexanoic Acid	26.544	0.001	0.006	BMB	0.1202



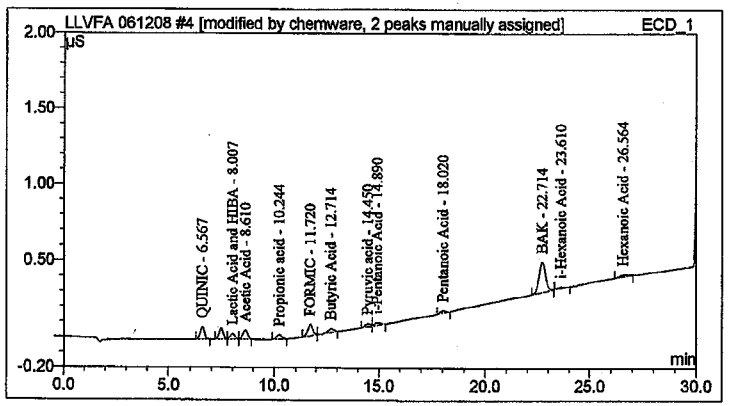
BOE-C6-0188849

MICROSEEPS

Sample Analysis Report

Sample Name:	LLVFA ICAL 2	**Sequence No:**	4
Sequence Name:	LLVFA 061208	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	6/12/2008 12:27 PM	**Analytical Method:**	AM23G
System Operator:	chemware	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	6.567	0.017	0.079	BMB	n.a.
3	Lactic Acid and HIBA	8.007	0.009	0.035	M ^	0.1095
4	Acetic Acid	8.610	0.015	0.057	MB	0.1000
5	Propionic acid	10.244	0.008	0.027	BMB	0.1309
6	FORMIC	11.720	0.020	0.072	BM	n.a.
7	Butyric Acid	12.714	0.007	0.024	MB	0.0932
8	Pyruvic acid	14.450	0.006	0.020	BM ^	0.1717
9	i-Pentanoic Acid	14.890	0.006	0.019	MB	0.1177
10	Pentanoic Acid	18.020	0.004	0.014	BMB	0.1310
11	BAK	22.714	0.069	0.195	BMB	n.a.
12	i-Hexanoic Acid	23.610	0.003	0.008	BMB*	0.1182
13	Hexanoic Acid	26.564	0.005	0.012	BMB*	0.1417

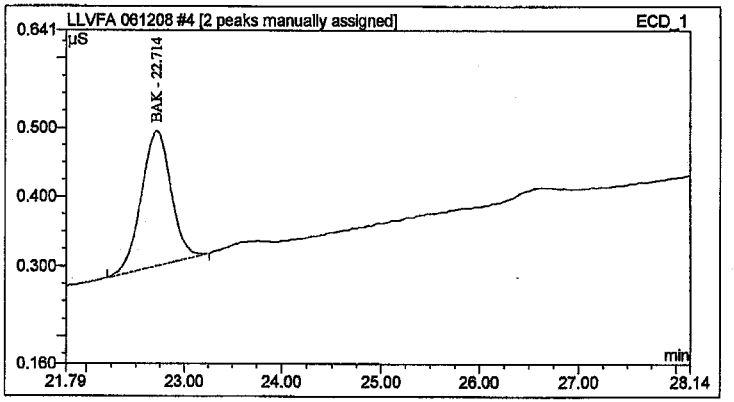


MICROSEEPS

Sample Analysis Report

Sample Name:	LLVFA ICAL 2	**Sequence No:**	4
Sequence Name:	LLVFA 061208	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	6/12/2008 12:27 PM	**Analytical Method:**	AM23G
System Operator:	chemware	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	6.567	0.017	0.079	BMB	n.a.
3	Lactic Acid and HIBA	8.007	0.009	0.035	M ^	0.1095
4	Acetic Acid	8.610	0.015	0.057	MB	0.1000
5	Propionic acid	10.244	0.008	0.027	BMB	0.1309
6	FORMIC	11.720	0.020	0.072	BM	n.a.
7	Butyric Acid	12.714	0.007	0.024	MB	0.0932
8	Pyruvic acid	14.450	0.006	0.020	BM ^	0.1717
9	i-Pentanoic Acid	14.890	0.006	0.019	MB	0.1177
10	Pentanoic Acid	18.020	0.004	0.014	BMB	0.1310
11	BAK	22.714	0.069	0.195	BMB	n.a.



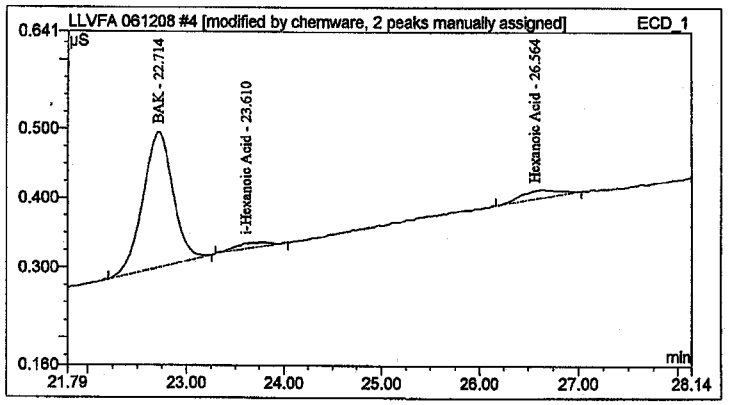
BOE-C6-0188850

MICROSEEPS

Sample Analysis Report

Sample Name:	LLVFA ICAL 2	**Sequence No:**	4
Sequence Name:	LLVFA 061208	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	6/12/2008 12:27 PM	**Analytical Method:**	AM23G
System Operator:	chemware	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	6.567	0.017	0.079	BMB	n.a.
3	Lactic Acid and HIBA	8.007	0.009	0.035	M ^	0.1095
4	Acetic Acid	8.610	0.015	0.057	MB	0.1000
5	Propionic acid	10.244	0.008	0.027	BMB	0.1309
6	FORMIC	11.720	0.020	0.072	BM	n.a.
7	Butyric Acid	12.714	0.007	0.024	MB	0.0932
8	Pyruvic acid	14.450	0.006	0.020	BM ^	0.1717
9	I-Pentanoic Acid	14.890	0.006	0.019	MB	0.1177
10	Pentanoic Acid	18.020	0.004	0.014	BMB	0.1310
11	BAK	22.714	0.069	0.195	BMB	n.a.
12	I-Hexanoic Acid	23.610	0.003	0.008	BMB*	0.1182
13	Hexanoic Acid	26.564	0.005	0.012	BMB*	0.1417

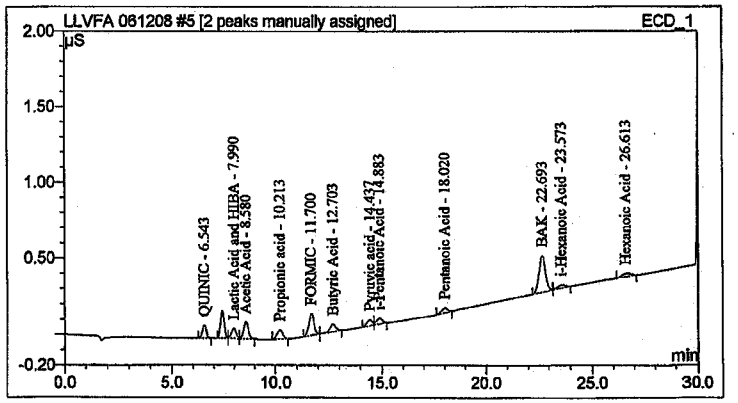


MICROSEEPS

Sample Analysis Report

Sample Name:	LLVFA ICAL 3	**Sequence No:**	5
Sequence Name:	LLVFA 061208	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	6/12/2008 1:08 PM	**Analytical Method:**	AM23G
System Operator:	chemware	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	6.543	0.019	0.086	BMB	n.a.
3	Lactic Acid and HIBA	7.990	0.017	0.067	M ^	0.1756
4	Acetic Acid	8.580	0.029	0.108	MB	0.2002
5	Propionic acid	10.213	0.018	0.059	BMB	0.2130
6	FORMIC	11.700	0.040	0.142	BM	n.a.
7	Butyric Acid	12.703	0.016	0.049	MB	0.1856
8	Pyruvic acid	14.437	0.012	0.040	BM ^	0.2259
9	I-Pentanoic Acid	14.883	0.013	0.038	MB	0.1958
10	Pentanoic Acid	18.020	0.011	0.032	BMB	0.2138
11	BAK	22.693	0.085	0.238	BM	n.a.
12	I-Hexanoic Acid	23.573	0.009	0.020	MB	0.2204
13	Hexanoic Acid	26.613	0.009	0.019	BMB	0.2015



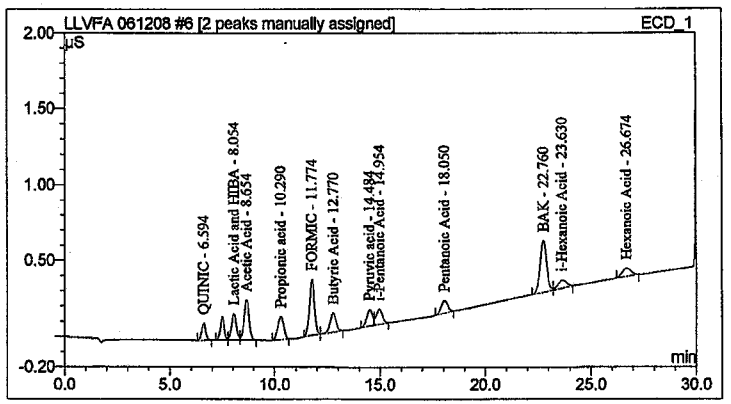
BOE-C6-0188851

MICROSEEPS

Sample Analysis Report

Sample Name:	LLVFA ICAL 4	**Sequence No:**	6
Sequence Name:	LLVFA 061208	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	6/12/2008 1:49 PM	**Analytical Method:**	AM23G
System Operator:	chemware	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	6.594	0.025	0.113	BMB	n.a.
3	Lactic Acid and HIBA	8.054	0.046	0.173	M ^	0.3696
4	Acetic Acid	8.654	0.070	0.260	MB	0.5006
5	Propionic acid	10.290	0.048	0.152	BMB	0.4576
6	FORMIC	11.774	0.103	0.369	BM	n.a.
7	Butyric Acid	12.770	0.041	0.125	MB	0.4414
8	Pyruvic acid	14.484	0.033	0.109	BM ^	0.4061
9	i-Pentanoic Acid	14.954	0.034	0.099	MB	0.4507
10	Pentanoic Acid	18.050	0.029	0.082	BMB	0.4497
11	BAK	22.760	0.119	0.338	BM	n.a.
12	i-Hexanoic Acid	23.630	0.024	0.051	MB	0.4562
13	Hexanoic Acid	26.674	0.026	0.052	BMB	0.4654

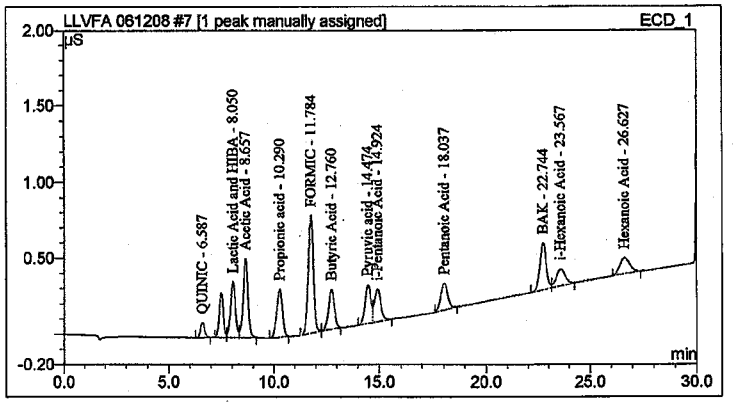


MICROSEEPS

Sample Analysis Report

Sample Name:	LLVFA ICAL 5	**Sequence No:**	7
Sequence Name:	LLVFA 061208	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	6/12/2008 2:31 PM	**Analytical Method:**	AM23G
System Operator:	chemware	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	6.587	0.022	0.097	BMB	n.a.
3	Lactic Acid and HIBA	8.050	0.099	0.365	M ^	0.7236
4	Acetic Acid	8.657	0.142	0.516	MB	1.0008
5	Propionic acid	10.290	0.101	0.313	BMB	0.8916
6	FORMIC	11.784	0.219	0.774	BM	n.a.
7	Butyric Acid	12.760	0.085	0.261	MB	0.8955
8	Pyruvic acid	14.474	0.079	0.252	BM	0.7743
9	i-Pentanoic Acid	14.924	0.073	0.211	MB	0.9140
10	Pentanoic Acid	18.037	0.065	0.175	BMB	0.9020
11	BAK	22.744	0.109	0.307	BM	n.a.
12	i-Hexanoic Acid	23.567	0.054	0.110	MB	0.9188
13	Hexanoic Acid	26.627	0.056	0.106	BMB	0.9043



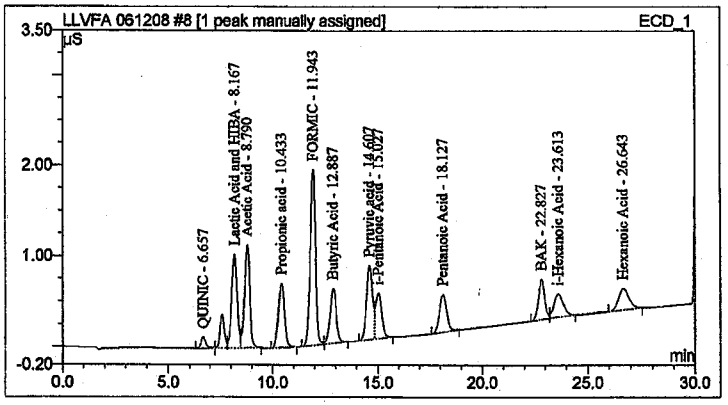
BOE-C6-0188852

MICROSEEPS

Sample Analysis Report

Sample Name:	LLVFA ICAL 6	**Sequence No:**	8
Sequence Name:	LLVFA 061208	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	6/12/2008 3:12 PM	**Analytical Method:**	AM23G
System Operator:	chemware	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	6.657	0.034	0.127	BM	n.a.
3	Lactic Acid and HIBA	8.167	0.308	1.034	M ^	2.1299
4	Acetic Acid	8.790	0.342	1.135	MB	2.0734
5	Propionic acid	10.433	0.244	0.704	BMB	2.0695
6	FORMIC	11.943	0.568	1.935	BM	n.a.
7	Butyric Acid	12.887	0.202	0.598	MB	2.0657
8	Pyruvic acid	14.607	0.264	0.813	BM	2.1259
9	i-Pentanoic Acid	15.027	0.170	0.495	MB	2.0607
10	Pentanoic Acid	18.127	0.159	0.408	BMB	2.0640
11	BAK	22.827	0.155	0.444	BM	n.a.
12	i-Hexanoic Acid	23.613	0.129	0.253	MB	2.0519
13	Hexanoic Acid	26.643	0.135	0.239	BMB	2.0581

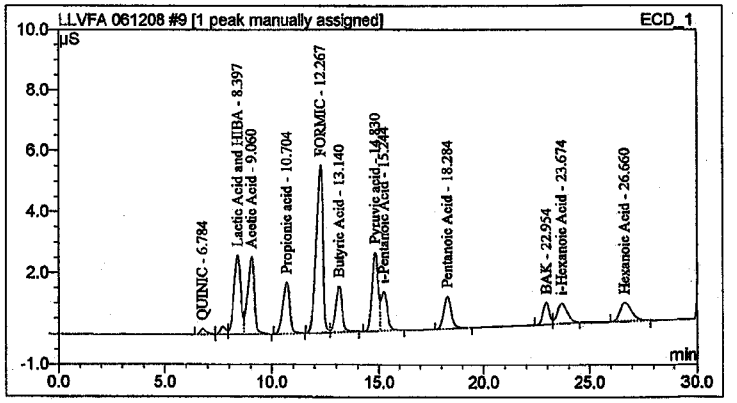


MICROSEEPS

Sample Analysis Report

Sample Name:	LLVFA ICAL 7	**Sequence No:**	9
Sequence Name:	LLVFA 061208	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	6/12/2008 3:53 PM	**Analytical Method:**	AM23G
System Operator:	chemware	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	6.784	0.059	0.176	BM	n.a.
3	Lactic Acid and HIBA	8.397	0.929	2.579	M ^	5.6511
4	Acetic Acid	9.060	0.901	2.530	MB	5.3964
5	Propionic acid	10.704	0.637	1.674	BMB	5.3650
6	FORMIC	12.267	1.883	5.478	BM	n.a.
7	Butyric Acid	13.140	0.535	1.495	MB	5.3594
8	Pyruvic acid	14.830	0.879	2.568	BM	5.6548
9	i-Pentanoic Acid	15.244	0.430	1.269	MB	5.3352
10	Pentanoic Acid	18.284	0.439	1.051	BMB	5.4146
11	BAK	22.954	0.241	0.708	BM	n.a.
12	i-Hexanoic Acid	23.674	0.348	0.646	MB	5.1306
13	Hexanoic Acid	26.660	0.376	0.601	BMB	5.3307



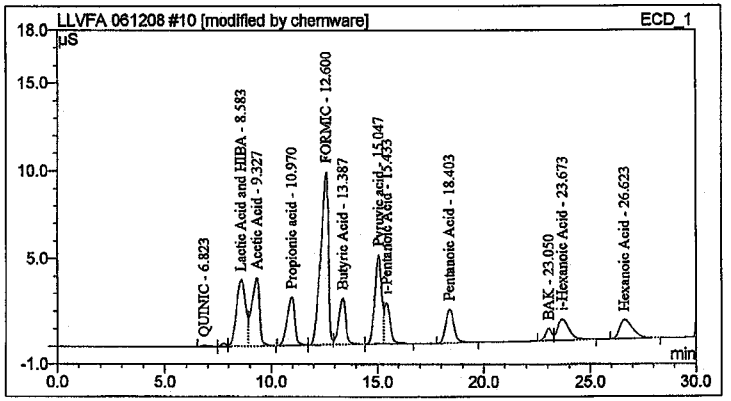
BOE-C6-0188853

MICROSEEPS

Sample Analysis Report

Sample Name:	LLVFA ICAL 8	**Sequence No:**	10
Sequence Name:	LLVFA 061208	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	6/12/2008 4:34 PM	**Analytical Method:**	AM23G
System Operator:	chemware	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	6.823	0.028	0.073	BMB	n.a.
3	Lactic Acid and HIBA	8.583	1.849	3.763	M	9.9980
4	Acetic Acid	9.327	1.672	3.872	MB	9.9983
5	Propionic acid	10.970	1.173	2.735	BMb*	9.9983
6	FORMIC	12.600	4.205	9.846	bM	n.a.
7	Butyric Acid	13.387	1.006	2.614	M	9.9985
8	Pyruvic acid	15.047	1.900	5.052	M *	9.9984
9	i-Pentanoic Acid	15.433	0.763	2.331	MB*	9.9982
10	Pentanoic Acid	18.403	0.846	1.907	BMB	9.9987
11	BAK	23.050	0.233	0.688	BM	n.a.
12	i-Hexanoic Acid	23.673	0.739	1.199	MB	9.9991
13	Hexanoic Acid	26.623	0.766	1.069	BMB	9.9990

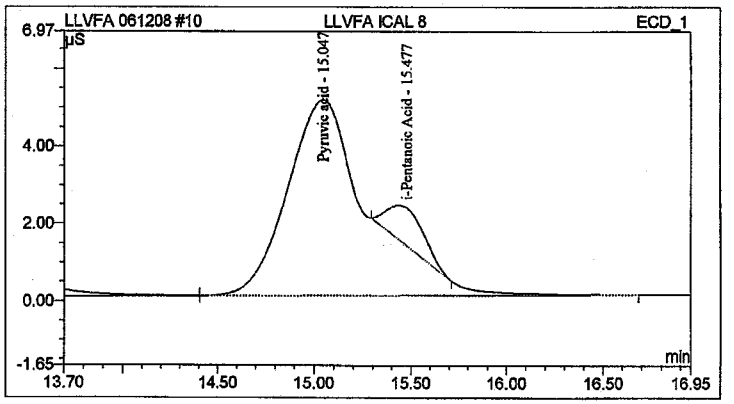


MICROSEEPS

Sample Analysis Report

Sample Name:	LLVFA ICAL 8	**Sequence No:**	10
Sequence Name:	LLVFA 061208	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	6/12/2008 4:34 PM	**Analytical Method:**	AM23G
System Operator:	chemware	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	6.823	0.028	0.073	BMB	n.a.
3	Lactic Acid and HIBA	8.583	1.849	3.763	M	9.9987
4	Acetic Acid	9.327	1.672	3.872	MB	n.a.
5	Propionic acid	10.970	1.173	2.735	BMB	9.9983
6	FORMIC	12.600	4.205	9.846	bM	n.a.
7	Butyric Acid	13.387	1.006	2.614	M	n.a.
8	Pyruvic acid	15.047	2.450	5.052	MB	9.9991
9	i-Pentanoic Acid	15.477	0.213	0.974	Rd	10.0000
10	Pentanoic Acid	18.403	0.846	1.907	BMB	9.9989
11	BAK	23.050	0.233	0.688	BM	n.a.
12	i-Hexanoic Acid	23.673	0.739	1.199	MB	9.9993
13	Hexanoic Acid	26.623	0.766	1.069	BMB	9.9991



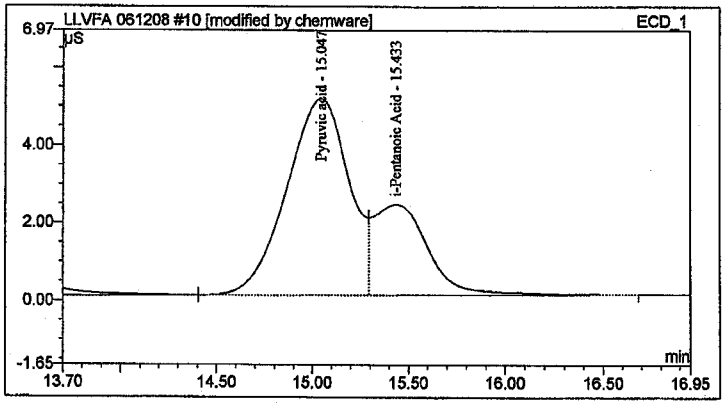
BOE-C6-0188854

MICROSEEPS

Sample Analysis Report

Sample Name:	LLVFA ICAL 8	**Sequence No:**	10
Sequence Name:	LLVFA 061208	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	6/12/2008 4:34 PM	**Analytical Method:**	AM23G
System Operator:	chemware	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	6.823	0.028	0.073	BMB	n.a.
3	Lactic Acid and HIBA	8.583	1.849	3.763	M	9.9987
4	Acetic Acid	9.327	1.672	3.872	MB	n.a.
5	Propionic acid	10.970	1.173	2.735	BMb*	9.9983
6	FORMIC	12.600	4.205	9.846	bM	n.a.
7	Butyric Acid	13.387	1.006	2.614	M	n.a.
8	Pyruvic acid	15.047	1.900	5.052	M *	9.9984
9	i-Pentanoic Acid	15.433	0.763	2.331	MB*	10.0000
10	Pentanoic Acid	18.403	0.846	1.907	BMB	9.9989
11	BAK	23.050	0.233	0.688	BM	n.a.
12	i-Hexanoic Acid	23.873	0.739	1.199	MB	9.9993
13	Hexanoic Acid	26.823	0.766	1.069	BMB	9.9991

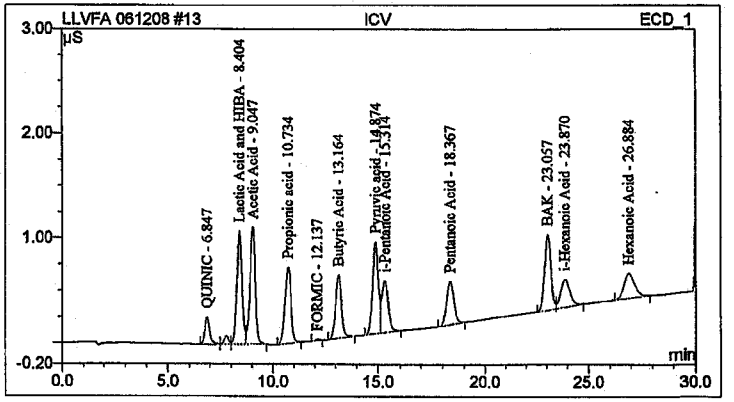


MICROSEEPS

Sample Analysis Report

Sample Name:	ICV	**Sequence No:**	13
Sequence Name:	LLVFA 061208	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	6/12/2008 6:37 PM	**Analytical Method:**	AM23G
System Operator:	chemware	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	6.847	0.070	0.261	BM	n.a.
3	Lactic Acid and HIBA	8.404	0.320	1.081	M	1.9263
4	Acetic Acid	9.047	0.338	1.115	MB	1.9063
5	Propionic acid	10.734	0.247	0.725	BMB	1.9598
6	FORMIC	12.137	0.003	0.011	BMB	n.a.
7	Butyric Acid	13.164	0.202	0.600	BMB	1.9250
8	Pyruvic acid	14.874	0.279	0.870	BM	1.9063
9	i-Pentanoic Acid	15.314	0.168	0.490	MB	1.9314
10	Pentanoic Acid	18.367	0.158	0.409	BMB	1.8991
11	BAK	23.057	0.246	0.716	BM	n.a.
12	i-Hexanoic Acid	23.870	0.132	0.260	MB	2.0354
13	Hexanoic Acid	26.884	0.132	0.232	BMB	1.8944



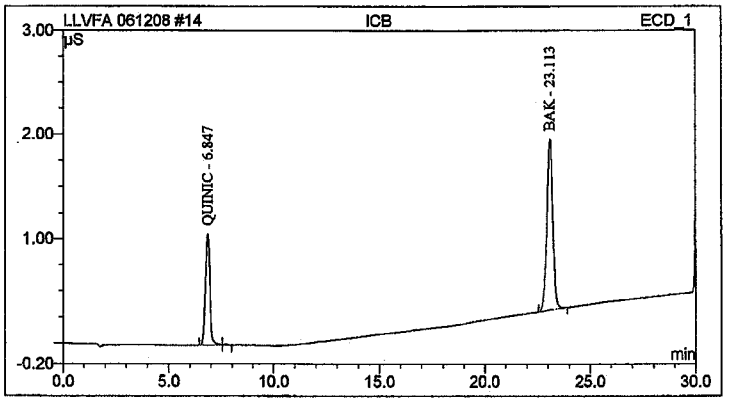
BOE-C6-0188855

MICROSEEPS

Sample Analysis Report

Sample Name:	ICB	**Sequence No:**	14
Sequence Name:	LLVFA 061208	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	6/12/2008 7:18 PM	**Analytical Method:**	AM23G
System Operator:	chemware	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	6.847	0.256	1.064	BM	n.a.
3	BAK	23.113	0.555	1.633	BMB	n.a.

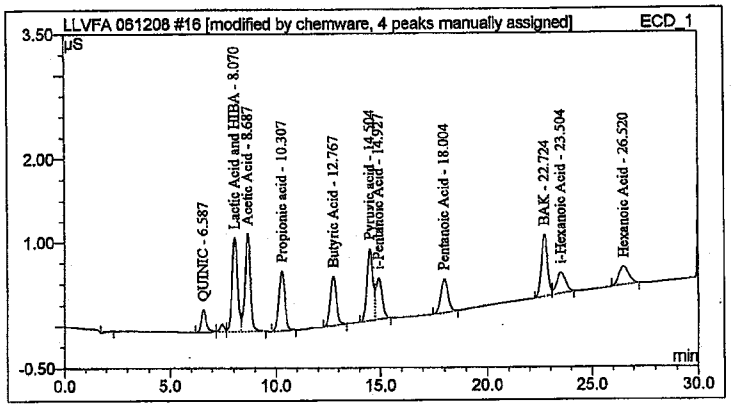


MICROSEEPS

Sample Analysis Report

Sample Name:	CCV	**Sequence No:**	16
Sequence Name:	LLVFA 061208	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	6/13/2008 3:37 PM	**Analytical Method:**	AM23G
System Operator:	chemware	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
2	QUINIC	6.587	0.072	0.265	BM	n.a.
4	Lactic Acid and HIBA	8.070	0.329	1.121	M ^	1.9725
5	Acetic Acid	8.687	0.353	1.170	MB	1.9862
6	Propionic acid	10.307	0.245	0.711	BMB	1.9469
7	Butyric Acid	12.767	0.199	0.585	BMB^	1.9002
8	Pyruvic acid	14.504	0.284	0.861	BM	1.9373
9	i-Pentanoic Acid	14.927	0.165	0.492	MB	1.8893
10	Pentanoic Acid	18.004	0.155	0.401	BMB	1.8657
11	BAK	22.724	0.252	0.739	BM *	n.a.
12	i-Hexanoic Acid	23.504	0.123	0.248	MB*^	1.9121
13	Hexanoic Acid	26.520	0.121	0.220	BMB*^	1.7440



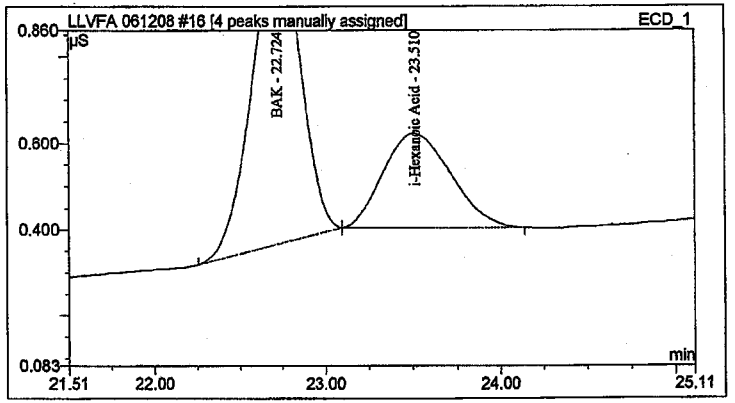
BOE-C6-0188856

MICROSEEPS

Sample Analysis Report

Sample Name:	CCV	**Sequence No:**	16
Sequence Name:	LLVFA 061208	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	6/13/2008 3:37 PM	**Analytical Method:**	AM23G
System Operator:	chemware	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
2	QUINIC	6.587	0.072	0.265	BM	n.a.
4	Lactic Acid and HIBA	8.070	0.329	1.121	M ^	1.9725
5	Acetic Acid	8.687	0.353	1.170	MB	1.9862
6	Propionic acid	10.307	0.245	0.711	BMB	1.9469
7	Butyric Acid	12.767	0.199	0.585	BMB^	1.9002
8	Pyruvic acid	14.504	0.284	0.861	BM	1.9373
9	i-Pentanoic Acid	14.927	0.165	0.492	MB	1.8893
10	Pentanoic Acid	18.004	0.155	0.401	BMB	1.8657
11	BAK	22.724	0.232	0.713	BMB	n.a.
12	i-Hexanoic Acid	23.510	0.097	0.219	bMB^	1.5352
13	Hexanoic Acid	26.520	0.116	0.216	BMB^	1.6744

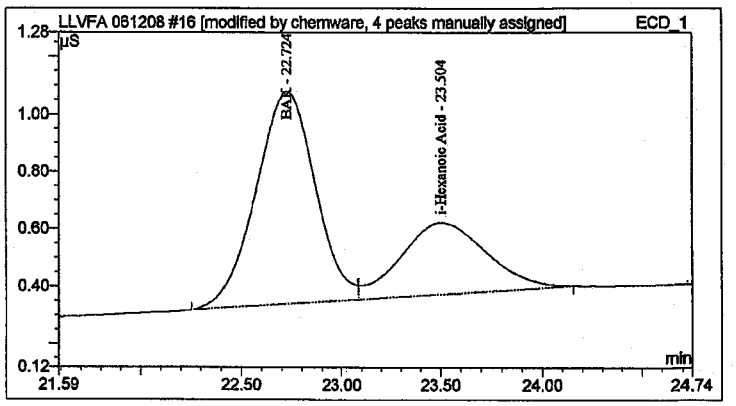


MICROSEEPS

Sample Analysis Report

Sample Name:	CCV	**Sequence No:**	16
Sequence Name:	LLVFA 061208	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	6/13/2008 3:37 PM	**Analytical Method:**	AM23G
System Operator:	chemware	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
2	QUINIC	6.587	0.072	0.265	BM	n.a.
4	Lactic Acid and HIBA	8.070	0.329	1.121	M ^	1.9725
5	Acetic Acid	8.687	0.353	1.170	MB	1.9862
6	Propionic acid	10.307	0.245	0.711	BMB	1.9469
7	Butyric Acid	12.767	0.199	0.585	BMB^	1.9002
8	Pyruvic acid	14.504	0.284	0.861	BM	1.9373
9	i-Pentanoic Acid	14.927	0.165	0.492	MB	1.8893
10	Pentanoic Acid	18.004	0.155	0.401	BMB	1.8657
11	BAK	22.724	0.252	0.739	BM *	n.a.
12	i-Hexanoic Acid	23.504	0.123	0.248	MB*^	1.9121
13	Hexanoic Acid	26.520	0.121	0.220	BMB*^	1.7440



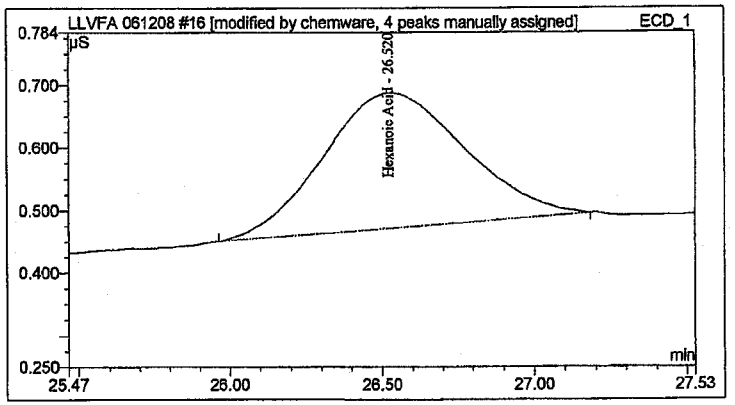
BOE-C6-0188857

MICROSEEPS

Sample Analysis Report

Sample Name:	CCV	**Sequence No:**	16
Sequence Name:	LLVFA 061208	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	6/13/2008 3:37 PM	**Analytical Method:**	AM23G
System Operator:	chemware	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
2	QUINIC	6.587	0.072	0.265	BM	n.a.
4	Lactic Acid and HIBA	8.070	0.329	1.121	M ^	1.9725
5	Acetic Acid	8.687	0.353	1.170	MB	1.9862
6	Propionic acid	10.307	0.245	0.711	BMB	1.9469
7	Butyric Acid	12.767	0.199	0.585	BMB^	1.9002
8	Pyruvic acid	14.504	0.284	0.861	BM	1.9373
9	i-Pentanoic Acid	14.927	0.165	0.492	MB	1.8893
10	Pentanoic Acid	18.004	0.155	0.401	BMB	1.8657
11	BAK	22.724	0.252	0.739	BM *	n.a.
12	i-Hexanoic Acid	23.504	0.123	0.248	MB*^	1.9121
13	Hexanoic Acid	26.520	0.116	0.216	BMB^	1.6744

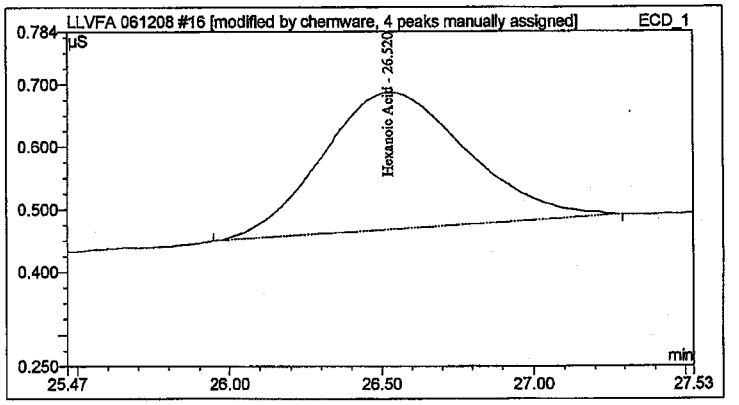


MICROSEEPS

Sample Analysis Report

Sample Name:	CCV	**Sequence No:**	16
Sequence Name:	LLVFA 061208	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	6/13/2008 3:37 PM	**Analytical Method:**	AM23G
System Operator:	chemware	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
2	QUINIC	6.587	0.072	0.265	BM	n.a.
4	Lactic Acid and HIBA	8.070	0.329	1.121	M ^	1.9725
5	Acetic Acid	8.687	0.353	1.170	MB	1.9862
6	Propionic acid	10.307	0.245	0.711	BMB	1.9469
7	Butyric Acid	12.767	0.199	0.585	BMB^	1.9002
8	Pyruvic acid	14.504	0.284	0.861	BM	1.9373
9	i-Pentanoic Acid	14.927	0.165	0.492	MB	1.8893
10	Pentanoic Acid	18.004	0.155	0.401	BMB	1.8657
11	BAK	22.724	0.252	0.739	BM *	n.a.
12	i-Hexanoic Acid	23.504	0.123	0.248	MB*^	1.9121
13	Hexanoic Acid	26.520	0.121	0.220	BMB*^	1.7440



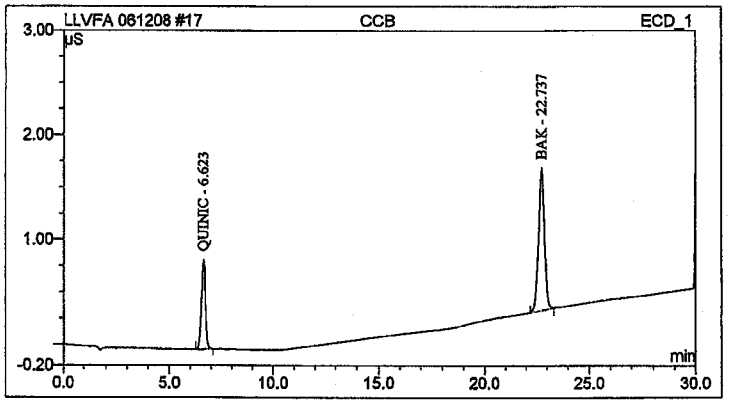
BOE-C6-0188858

MICROSEEPS

Sample Analysis Report

Sample Name:	CCB	**Sequence No:**	17
Sequence Name:	LLVFA 061208	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	6/13/2008 4:59 PM	**Analytical Method:**	AM23G
System Operator:	chemware	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	6.623	0.191	0.851	BMB	n.a.
2	BAK	22.737	0.459	1.358	BMB	n.a.

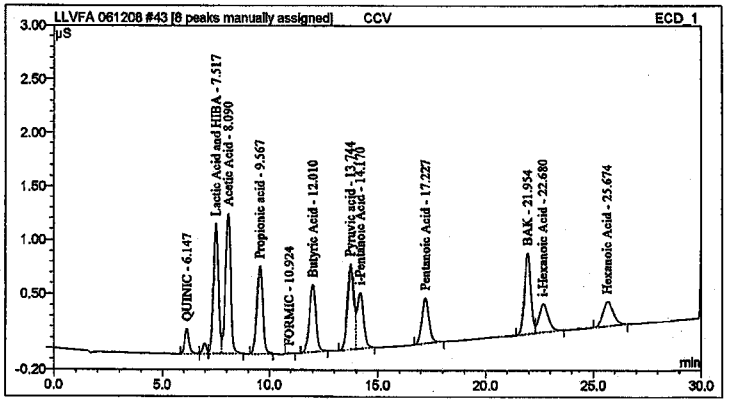


MICROSEEPS

Sample Analysis Report

Sample Name:	CCV	**Sequence No:**	43
Sequence Name:	LLVFA 061208	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	6/16/2008 12:51 PM	**Analytical Method:**	AM23G
System Operator:	chemware	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	6.147	0.054	0.233	BM ^	n.a.
3	Lactic Acid and HIBA	7.517	0.319	1.204	M	1.9188
4	Acetic Acid	8.090	0.359	1.295	MB^	2.0184
5	Propionic acid	9.567	0.262	0.812	BMB^	2.0749
6	FORMIC	10.924	0.002	0.007	BMB^	n.a.
7	Butyric Acid	12.010	0.215	0.622	BMB^	2.0449
8	Pyruvic acid	13.744	0.257	0.788	BM	1.7778
9	i-Pentanoic Acid	14.170	0.174	0.513	MB	2.0009
10	Pentanoic Acid	17.227	0.164	0.419	BMB^	1.9657
11	BAK	21.954	0.251	0.742	BM	n.a.
12	i-Hexanoic Acid	22.680	0.131	0.257	MB^	2.0165
13	Hexanoic Acid	25.674	0.127	0.226	BMB^	1.8217



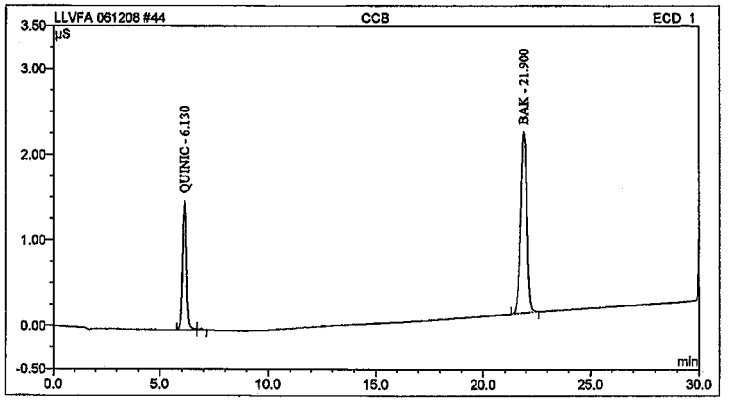
BOE-C6-0188859

MICROSEEPS

Sample Analysis Report

Sample Name:	CCB	**Sequence No:**	44
Sequence Name:	LLVFA 061208	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	6/16/2008 2:13 PM	**Analytical Method:**	AM23G
System Operator:	chemware	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	6.130	0.326	1.511	BM	n.a.
3	BAK	21.900	0.710	2.116	BMB	n.a.

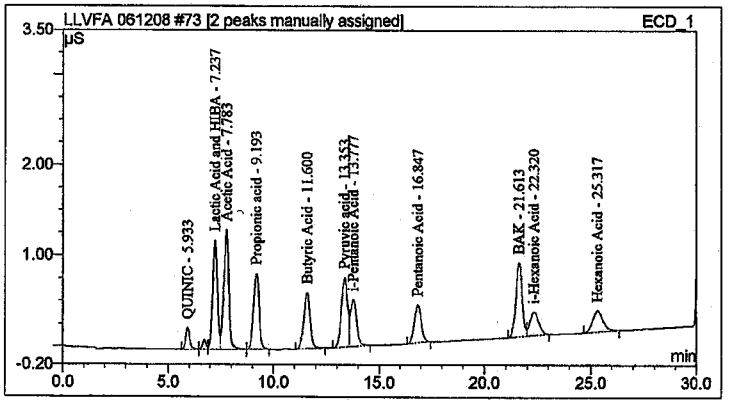


MICROSEEPS

Sample Analysis Report

Sample Name:	CCV	**Sequence No:**	73
Sequence Name:	LLVFA 061208	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	6/17/2008 12:09 PM	**Analytical Method:**	AM23G
System Operator:	chemware	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	5.933	0.053	0.236	BM	n.a.
3	Lactic Acid and HIBA	7.237	0.308	1.199	M	1.8569
4	Acetic Acid	7.783	0.355	1.314	M	1.9966
5	Propionic acid	9.193	0.255	0.825	MB	2.0259
6	Butyric Acid	11.600	0.214	0.612	BMB^	2.0435
7	Pyruvic acid	13.353	0.250	0.759	BM	1.7376
8	i-Pentanoic Acid	13.777	0.176	0.509	MB	2.0221
9	Pentanoic Acid	16.847	0.159	0.412	BMB	1.9079
10	BAK	21.613	0.273	0.809	BM	n.a.
11	i-Hexanoic Acid	22.320	0.125	0.255	MB^	1.9342
12	Hexanoic Acid	25.317	0.129	0.228	BMB	1.8418



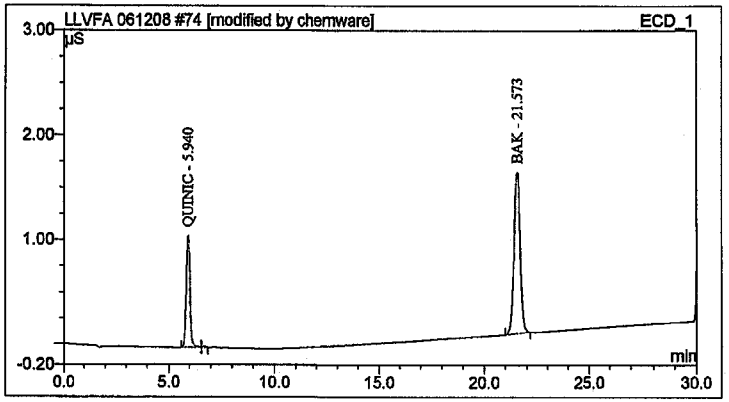
BOE-C6-0188860

MICROSEEPS

Sample Analysis Report

Sample Name:	CCB	**Sequence No:**	74
Sequence Name:	LLVFA 061208	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	6/17/2008 12:50 PM	**Analytical Method:**	AM23G
System Operator:	chemware	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	5.940	0.223	1.075	BM	n.a.
3	BAK	21.573	0.519	1.544	BMB	n.a.

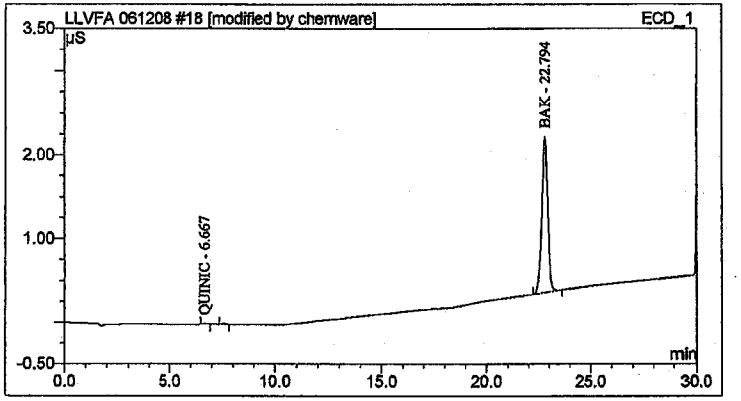


MICROSEEPS

Sample Analysis Report

Sample Name:	M080602017-MB	**Sequence No:**	18
Sequence Name:	LLVFA 061208	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	6/13/2008 6:21 PM	**Analytical Method:**	AM23G
System Operator:	chemware	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	6.667	0.002	0.010	BMB	n.a.
3	BAK	22.794	0.632	1.860	BMB	n.a.



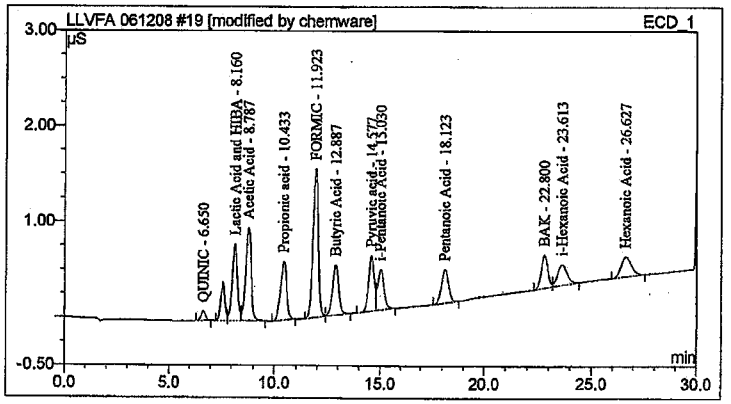
BOE-C6-0188861

MICROSEEPS

Sample Analysis Report

Sample Name:	M080602017-LCS	**Sequence No:**	19
Sequence Name:	LLVFA 061208	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	6/13/2008 7:02 PM	**Analytical Method:**	AM23G
System Operator:	chemware	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	6.650	0.024	0.102	BMB	n.a.
3	Lactic Acid and HIBA	8.160	0.227	0.801	M	1.4168
4	Acetic Acid	8.787	0.285	0.971	MB	1.6141
5	Propionic acid	10.433	0.205	0.610	BMB	1.6413
6	FORMIC	11.923	0.449	1.554	BM	n.a.
7	Butyric Acid	12.887	0.177	0.522	MB	1.6944
8	Pyruvic acid	14.577	0.184	0.579	BM *	1.3408
9	i-Pentanoic Acid	15.030	0.146	0.420	MB*	1.6857
10	Pentanoic Acid	18.123	0.133	0.348	BMB	1.6185
11	BAK	22.800	0.121	0.345	BM	n.a.
12	i-Hexanoic Acid	23.613	0.110	0.217	MB	1.7117
13	Hexanoic Acid	26.627	0.116	0.208	BMB	1.6716



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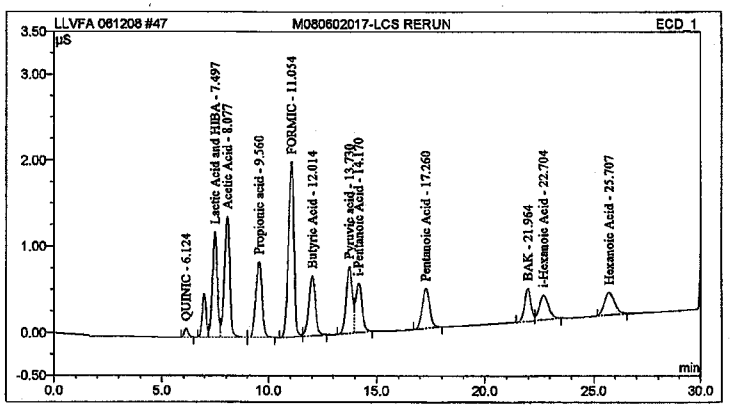
Sample Analysis Report

Sample Name:	M080602017-LCS RERUN	**Sequence No:**	47
Sequence Name:	LLVFA 061208	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	6/16/2008 6:20 PM	**Analytical Method:**	AM23G
System Operator:	chemware	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	6.124	0.022	0.100	BMB	n.a.
3	Lactic Acid and HIBA	7.497	0.328	1.223	M	1.9643
4	Acetic Acid	8.077	0.395	1.399	M	2.2167
5	Propionic acid	9.560	0.287	0.876	MB	2.2721
6	FORMIC	11.054	0.612	2.029	BM	n.a.
7	Butyric Acid	12.014	0.238	0.692	MB	2.2635
8	Pyruvic acid	13.730	0.252	0.772	BM	1.7472
9	i-Pentanoic Acid	14.170	0.195	0.564	MB	2.2365
10	Pentanoic Acid	17.260	0.184	0.460	BMB	2.1899
11	BAK	21.964	0.130	0.379	BM	n.a.
12	i-Hexanoic Acid	22.704	0.143	0.285	MB	2.1979
13	Hexanoic Acid	25.707	0.144	0.260	BMB	2.0449



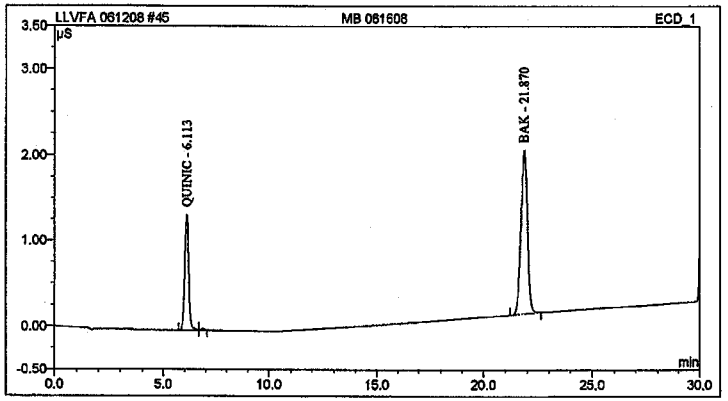
BOE-C6-0188862

MICROSEEPS

Sample Analysis Report

Sample Name:	MB 061608	**Sequence No:**	45
Sequence Name:	LLVFA 061208	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	6/16/2008 3:36 PM	**Analytical Method:**	AM23G
System Operator:	chemware	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	6.113	0.290	1.350	BM	n.a.
3	BAK	21.870	0.642	1.910	BMB	n.a.



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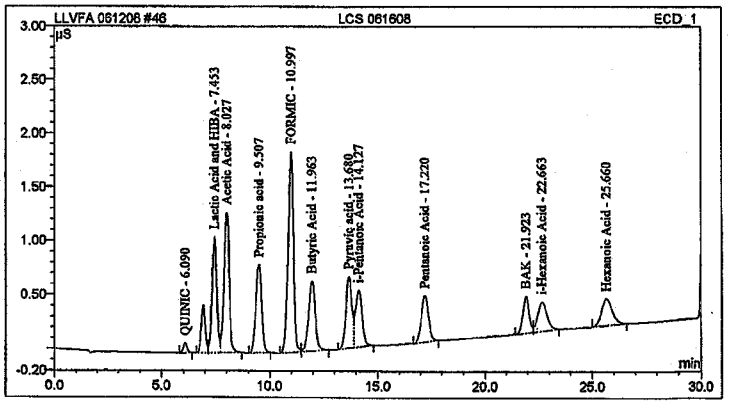
Sample Analysis Report

Sample Name:	LCS 061608	**Sequence No:**	46
Sequence Name:	LLVFA 061208	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	6/16/2008 5:39 PM	**Analytical Method:**	AM23G
System Operator:	chemware	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	6.090	0.019	0.088	BMB	n.a.
3	Lactic Acid and HIBA	7.453	0.280	1.078	M	1.7073
4	Acetic Acid	8.027	0.358	1.303	MB	2.0161
5	Propionic acid	9.507	0.264	0.819	BMB	2.0930
6	FORMIC	10.997	0.561	1.863	BM	n.a.
7	Butyric Acid	11.963	0.225	0.647	MB	2.1388
8	Pyruvic acid	13.680	0.212	0.660	BM	1.5146
9	i-Pentanoic Acid	14.127	0.183	0.523	MB	2.0999
10	Pentanoic Acid	17.220	0.169	0.429	BMB	2.0186
11	BAK	21.923	0.117	0.342	BM	n.a.
12	i-Hexanoic Acid	22.663	0.134	0.266	MB	2.0591
13	Hexanoic Acid	25.660	0.138	0.245	BMB	1.9727



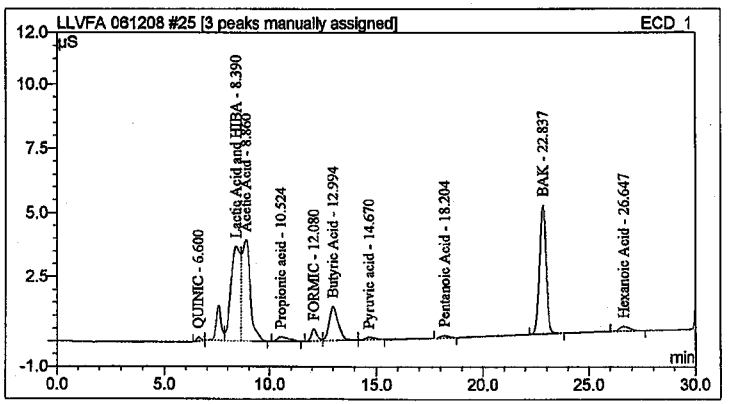
BOE-C6-0188863

MICROSEEPS

Sample Analysis Report

Sample Name:	P0805308-01A	**Sequence No:**	25
Sequence Name:	LLVFA 061208	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	6/13/2008 11:09 PM	**Analytical Method:**	AM23G
System Operator:	chemware	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	6.600	0.032	0.141	BMB	n.a.
3	Lactic Acid and HIBA	8.390	1.795	3.668	M ^	9.6875
4	Acetic Acid	8.860	1.874	3.925	MB	11.3667
5	Propionic acid	10.524	0.107	0.162	BMB	0.8939
6	FORMIC	12.080	0.142	0.459	BM ^	n.a.
7	Butyric Acid	12.994	0.655	1.314	M	6.3007
8	Pyruvic acid	14.670	0.049	0.088	MB	0.5116
9	Pentanoic Acid	18.204	0.040	0.094	BMB	0.5687
10	BAK	22.837	1.780	5.024	BMB	n.a.
11	Hexanoic Acid	26.647	0.098	0.171	BMB^	1.4354

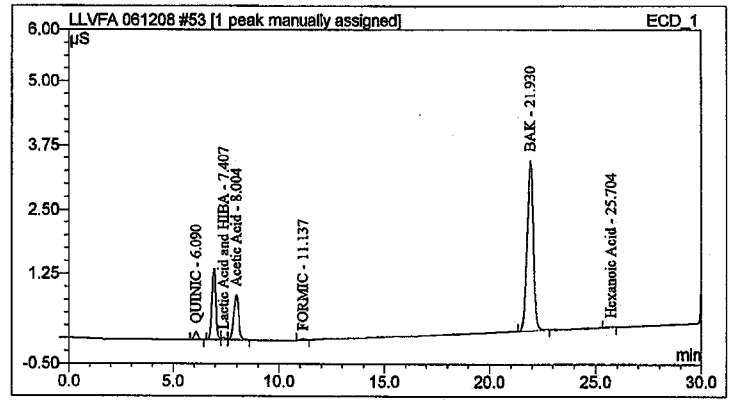


MICROSEEPS

Sample Analysis Report

Sample Name:	P0805308-01A RERUN	**Sequence No:**	53
Sequence Name:	LLVFA 061208	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	6/16/2008 10:27 PM	**Analytical Method:**	AM23G
System Operator:	chemware	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	6.090	0.032	0.153	BMB	n.a.
3	Lactic Acid and HIBA	7.407	0.009	0.035	M	0.2221
4	Acetic Acid	8.004	0.230	0.874	MB	1.3150
5	FORMIC	11.137	0.006	0.021	BMB^	n.a.
6	BAK	21.930	1.137	3.318	BMB	n.a.
7	Hexanoic Acid	25.704	0.004	0.011	BMB	0.1539



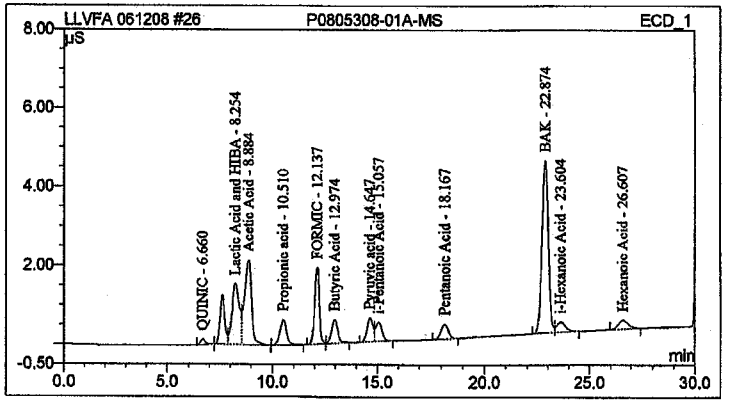
BOE-C6-0188864

MICROSEEPS

Sample Analysis Report

Sample Name:	P0805308-01A-MS	**Sequence No:**	26
Sequence Name:	LLVFA 061208	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	6/13/2008 11:50 PM	**Analytical Method:**	AM23G
System Operator:	chemware	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	6.660	0.039	0.147	BMB	n.a.
3	Lactic Acid and HIBA	8.254	0.619	1.541	M	3.5351
4	Acetic Acid	8.884	0.851	2.150	MB	4.8183
5	Propionic acid	10.510	0.243	0.645	BMB	1.9326
6	FORMIC	12.137	0.505	1.939	BM	n.a.
7	Butyric Acid	12.974	0.203	0.601	MB	1.9383
8	Pyruvic acid	14.647	0.194	0.599	BM	1.4023
9	i-Pentanoic Acid	15.057	0.171	0.482	MB	1.9579
10	Pentanoic Acid	18.167	0.147	0.375	BMB	1.7683
11	BAK	22.874	1.522	4.369	BM	n.a.
12	i-Hexanoic Acid	23.604	0.127	0.253	MB	1.9700
13	Hexanoic Acid	26.607	0.122	0.221	BMB	1.7535

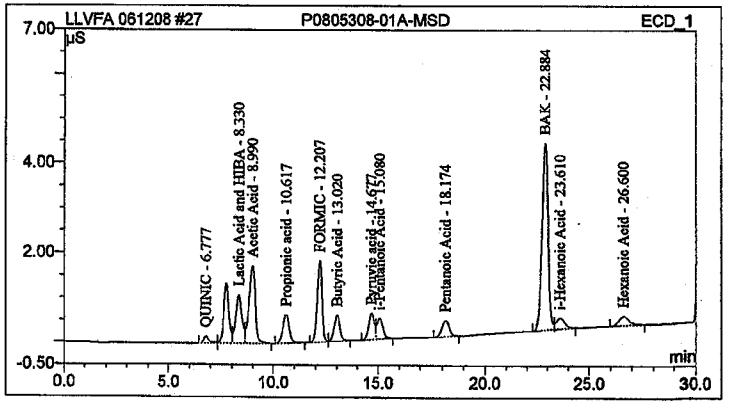


MICROSEEPS

Sample Analysis Report

Sample Name:	P0805308-01A-MSD	**Sequence No:**	27
Sequence Name:	LLVFA 061208	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	6/14/2008 12:31 AM	**Analytical Method:**	AM23G
System Operator:	chemware	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	6.777	0.048	0.159	BM	n.a.
3	Lactic Acid and HIBA	8.330	0.376	1.087	M	2.2247
4	Acetic Acid	8.990	0.600	1.732	MB	3.3688
5	Propionic acid	10.617	0.224	0.631	BMB	1.7836
6	FORMIC	12.207	0.455	1.816	BM	n.a.
7	Butyric Acid	13.020	0.188	0.577	MB	1.8010
8	Pyruvic acid	14.677	0.184	0.578	BM	1.3436
9	i-Pentanoic Acid	15.080	0.155	0.455	MB	1.7775
10	Pentanoic Acid	18.174	0.137	0.355	BMB	1.6634
11	BAK	22.884	1.448	4.169	BM	n.a.
12	i-Hexanoic Acid	23.610	0.115	0.236	MB	1.7964
13	Hexanoic Acid	26.600	0.117	0.210	BMB	1.6911



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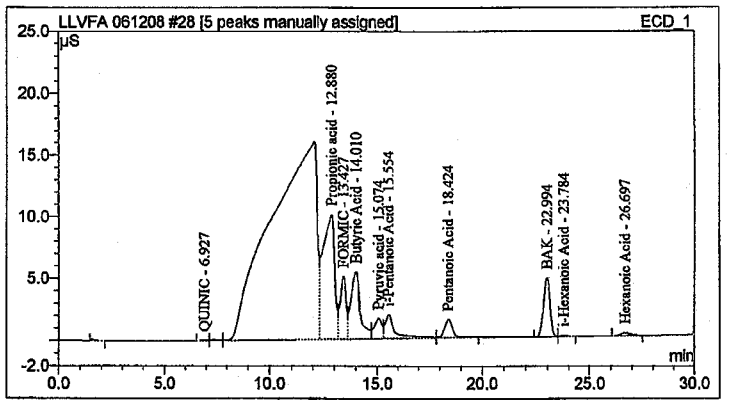
MICROSEEPS

Sample Analysis Report

Sample Name:	P0805308-02A	**Sequence No:**	28
Sequence Name:	LLVFA 061208	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	6/14/2008 1:12 AM	**Analytical Method:**	AM23G
System Operator:	chemware	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
2	QUINIC	6.927	0.016	0.046	BM ^	n.a.
5	Propionic acid	12.880	6.431	10.062	M ^	n.a.
6	FORMIC	13.427	1.652	5.026	M ^	n.a.
7	Butyric Acid	14.010	2.672	5.357	M ^	35.6614
8	Pyruvic acid	15.074	0.694	1.627	M ^	4.2268
9	i-Pentanoic Acid	15.554	1.102	1.907	M	17.2203
10	Pentanoic Acid	18.424	0.646	1.464	MB	7.5597
11	BAK	22.994	1.594	4.699	BM	n.a.
12	i-Hexanoic Acid	23.784	0.040	0.086	MB	0.6867
13	Hexanoic Acid	26.697	0.120	0.219	BMB	1.7233

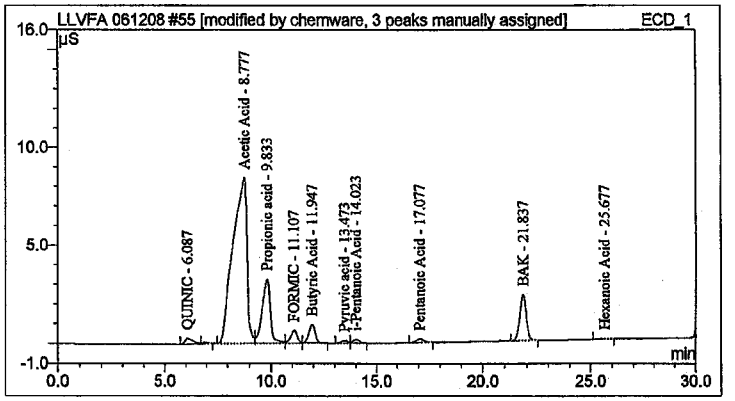


MICROSEEPS

Sample Analysis Report

Sample Name:	P0805308-02A 10X	**Sequence No:**	55
Sequence Name:	LLVFA 061208	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	6/16/2008 11:49 PM	**Analytical Method:**	AM23G
System Operator:	chemware	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	6.087	0.117	0.285	BMB	n.a.
3	Acetic Acid	8.777	6.361	8.447	BM ^	n.a.
4	Propionic acid	9.833	1.445	3.225	M *^	12.7946
5	FORMIC	11.107	0.224	0.629	M *	n.a.
6	Butyric Acid	11.947	0.322	0.920	MB	3.0513
7	Pyruvic acid	13.473	0.043	0.128	BM ^	0.4747
8	i-Pentanoic Acid	14.023	0.063	0.180	MB	0.7691
9	Pentanoic Acid	17.077	0.066	0.174	BMB	0.8630
10	BAK	21.837	0.791	2.311	BMB	n.a.
11	Hexanoic Acid	25.677	0.010	0.022	BMB	0.2457



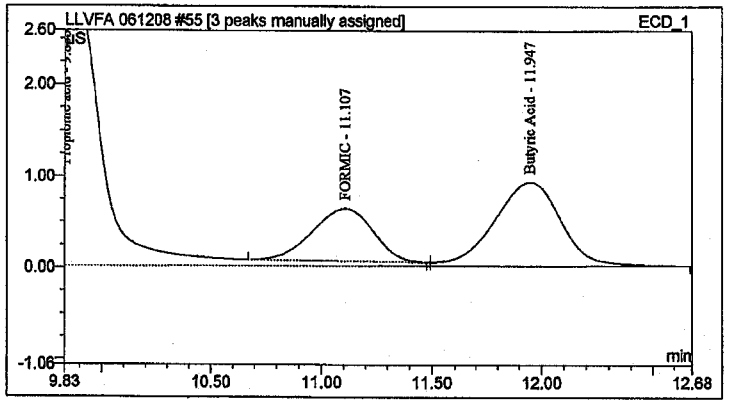
BOE-C6-0188866

MICROSEEPS

Sample Analysis Report

Sample Name:	P0805308-02A 10X	**Sequence No:**	55
Sequence Name:	LLVFA 061208	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	6/16/2008 11:49 PM	**Analytical Method:**	AM23G
System Operator:	chemware	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	6.087	0.117	0.285	BMB	n.a.
3	Acetic Acid	8.777	6.361	8.447	BM ^	n.a.
4	Propionic acid	9.833	1.488	3.225	M ^	13.2754
5	FORMIC	11.107	0.181	0.577	Rd	n.a.
6	Butyric Acid	11.947	0.322	0.920	MB	3.0513
7	Pyruvic acid	13.473	0.043	0.128	BM ^	0.4747
8	I-Pentanoic Acid	14.023	0.063	0.180	MB	0.7691
9	Pentanoic Acid	17.077	0.066	0.174	BMB	0.8630
10	BAK	21.837	0.791	2.311	BMB	n.a.
11	Hexanoic Acid	25.677	0.010	0.022	BMB	0.2457

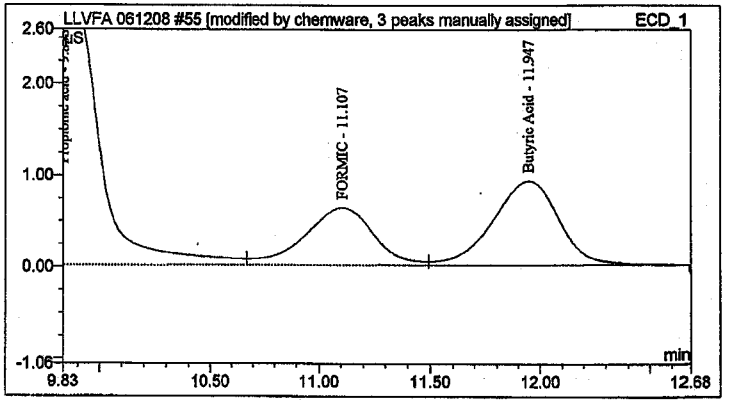


MICROSEEPS

Sample Analysis Report

Sample Name:	P0805308-02A 10X	**Sequence No:**	55
Sequence Name:	LLVFA 061208	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	6/16/2008 11:49 PM	**Analytical Method:**	AM23G
System Operator:	chemware	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	6.087	0.117	0.285	BMB	n.a.
3	Acetic Acid	8.777	6.361	8.447	BM ^	n.a.
4	Propionic acid	9.833	1.445	3.225	M *^	12.7946
5	FORMIC	11.107	0.224	0.629	M *	n.a.
6	Butyric Acid	11.947	0.322	0.920	MB	3.0513
7	Pyruvic acid	13.473	0.043	0.128	BM ^	0.4747
8	I-Pentanoic Acid	14.023	0.063	0.180	MB	0.7691
9	Pentanoic Acid	17.077	0.066	0.174	BMB	0.8630
10	BAK	21.837	0.791	2.311	BMB	n.a.
11	Hexanoic Acid	25.677	0.010	0.022	BMB	0.2457



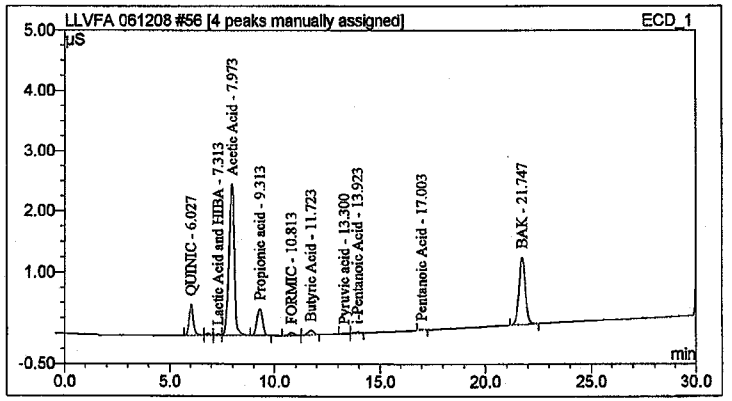
BOE-C6-0188867

MICROSEEPS

Sample Analysis Report

Sample Name:	P0805308-02A 100X	**Sequence No:**	56
Sequence Name:	LLVFA 061208	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	6/17/2008 12:30 AM	**Analytical Method:**	AM23G
System Operator:	chemware	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	6.027	0.119	0.509	BM	n.a.
3	Lactic Acid and HIBA	7.313	0.007	0.029	M	0.2140
4	Acetic Acid	7.973	0.761	2.489	MB^	4.2919
5	Propionic acid	9.313	0.133	0.439	Rd^	1.0930
6	FORMIC	10.813	0.016	0.048	BMB	n.a.
7	Butyric Acid	11.723	0.024	0.073	BMB^	0.3082
8	Pyruvic acid	13.300	0.003	0.010	BM ^	0.2240
9	i-Pentanoic Acid	13.923	0.005	0.014	MB	0.1417
10	Pentanoic Acid	17.003	0.003	0.011	BMB	0.1577
11	BAK	21.747	0.378	1.098	BMB	n.a.

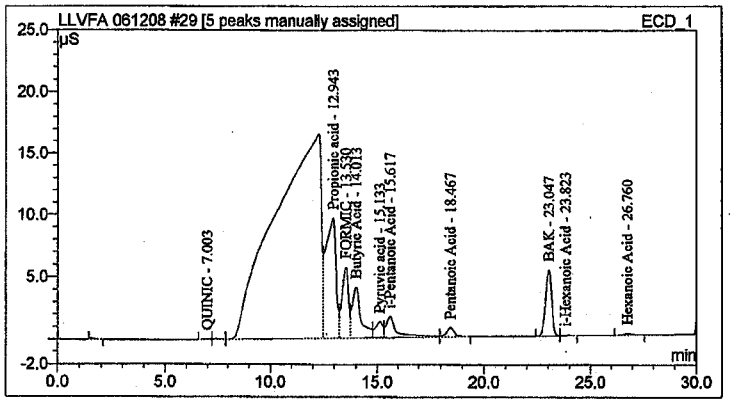


MICROSEEPS

Sample Analysis Report

Sample Name:	P0805308-03A	**Sequence No:**	29
Sequence Name:	LLVFA 061208	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	6/14/2008 1:53 AM	**Analytical Method:**	AM23G
System Operator:	chemware	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
2	QUINIC	7.003	0.022	0.065	BM ^	n.a.
5	Propionic acid	12.943	5.368	9.632	M ^	n.a.
6	FORMIC	13.530	1.960	5.661	M ^	n.a.
7	Butyric Acid	14.013	1.953	4.052	M ^	21.9556
8	Pyruvic acid	15.133	0.546	1.267	M ^	3.4268
9	i-Pentanoic Acid	15.617	1.020	1.668	M	15.0494
10	Pentanoic Acid	18.467	0.302	0.723	MB	3.5349
11	BAK	23.047	1.789	5.283	BM	n.a.
12	i-Hexanoic Acid	23.823	0.027	0.059	MB	0.5048
13	Hexanoic Acid	26.760	0.067	0.126	BMB	1.0210



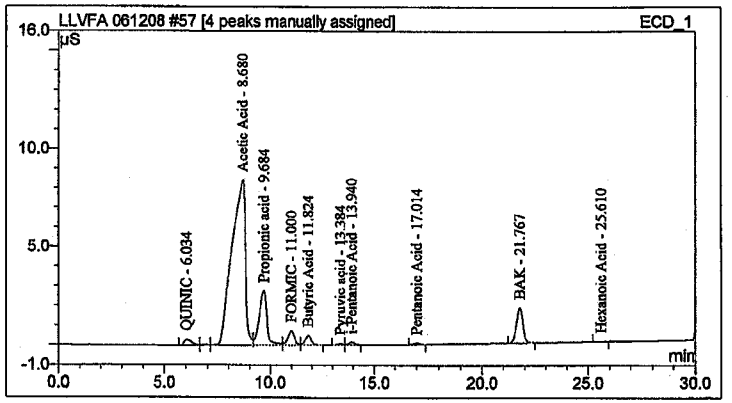
BOE-C6-0188868

MICROSEEPS

Sample Analysis Report

Sample Name:	P0805308-03A 10X	**Sequence No:**	57
Sequence Name:	LLVFA 061208	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	6/17/2008 1:11 AM	**Analytical Method:**	AM23G
System Operator:	chemware	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	6.034	0.120	0.302	BM	n.a.
3	Acetic Acid	8.680	6.261	8.421	M ^	n.a.
4	Propionic acid	9.684	1.173	2.756	M ^	9.9761
5	FORMIC	11.000	0.265	0.718	M	n.a.
6	Butyric Acid	11.824	0.164	0.466	MB^	1.5744
7	Pyruvic acid	13.384	0.024	0.074	BM ^	0.3562
8	i-Pentanoic Acid	13.940	0.047	0.134	MB	0.5906
9	Pentanoic Acid	17.014	0.022	0.062	BMB	0.3671
10	BAK	21.767	0.609	1.790	BMB	n.a.
11	Hexanoic Acid	25.610	0.004	0.011	BMB	0.1585

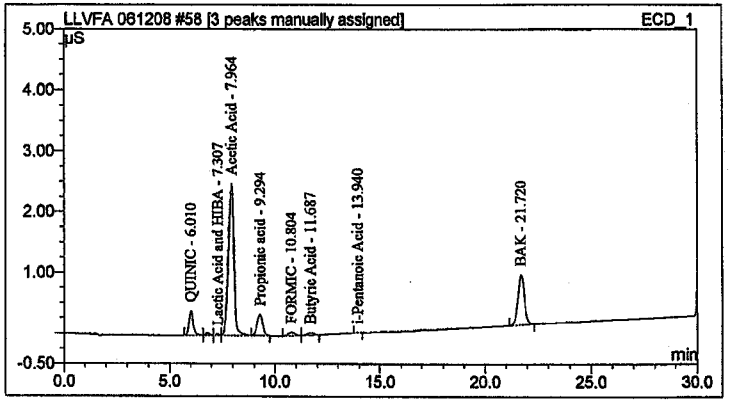


MICROSEEPS

Sample Analysis Report

Sample Name:	P0805308-03X 100X	**Sequence No:**	58
Sequence Name:	LLVFA 061208	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	6/17/2008 1:52 AM	**Analytical Method:**	AM23G
System Operator:	chemware	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	6.010	0.094	0.406	BM	n.a.
3	Lactic Acid and HIBA	7.307	0.005	0.022	M	0.2029
4	Acetic Acid	7.964	0.766	2.506	MB^	4.3197
5	Propionic acid	9.294	0.102	0.340	Rd	0.8574
6	FORMIC	10.804	0.019	0.055	BM ^	n.a.
7	Butyric Acid	11.687	0.011	0.035	MB	0.1965
8	i-Pentanoic Acid	13.940	0.001	0.007	BMB^	0.1091
9	BAK	21.720	0.281	0.819	BMB	n.a.



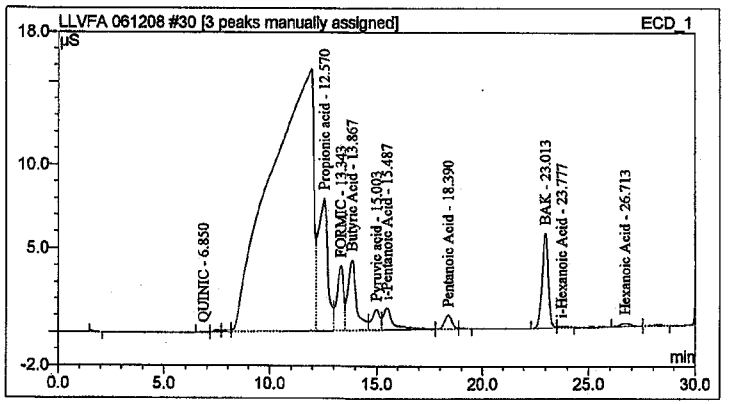
BOE-C6-0188869

MICROSEEPS

Sample Analysis Report

Sample Name:	P0805308-04A	**Sequence No:**	30
Sequence Name:	LLVFA 061208	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	6/14/2008 2:35 AM	**Analytical Method:**	AM23G
System Operator:	chemware	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
2	QUINIC	6.850	0.021	0.061	BM ^	n.a.
6	Propionic acid	12.570	4.112	7.888	M	n.a.
7	FORMIC	13.343	1.334	3.866	M	n.a.
8	Butyric Acid	13.867	1.966	4.207	M ^	22.1529
9	Pyruvic acid	15.003	0.520	1.214	M ^	3.2812
10	i-Pentanoic Acid	15.487	0.747	1.307	M	9.7017
11	Pentanoic Acid	18.390	0.335	0.814	M	3.9149
13	BAK	23.013	1.923	5.635	BM	n.a.
14	i-Hexanoic Acid	23.777	0.028	0.061	MB	0.5129
15	Hexanoic Acid	26.713	0.097	0.175	BM	1.4191

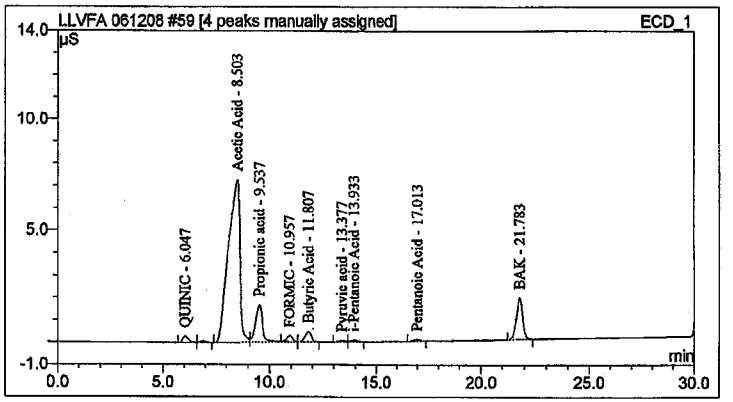


MICROSEEPS

Sample Analysis Report

Sample Name:	P0805308-04A 10X	**Sequence No:**	59
Sequence Name:	LLVFA 061208	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	6/17/2008 2:33 AM	**Analytical Method:**	AM23G
System Operator:	chemware	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	6.047	0.089	0.294	BM	n.a.
3	Acetic Acid	8.503	4.510	7.291	BM ^	n.a.
4	Propionic acid	9.537	0.641	1.667	M ^	5.1383
5	FORMIC	10.957	0.086	0.275	Rd^	n.a.
6	Butyric Acid	11.807	0.153	0.460	MB	1.4786
7	Pyruvic acid	13.377	0.023	0.069	BM ^	0.3528
8	i-Pentanoic Acid	13.933	0.029	0.084	MB	0.4056
9	Pentanoic Acid	17.013	0.024	0.066	BMB	0.3861
10	BAK	21.783	0.633	1.866	BMB	n.a.



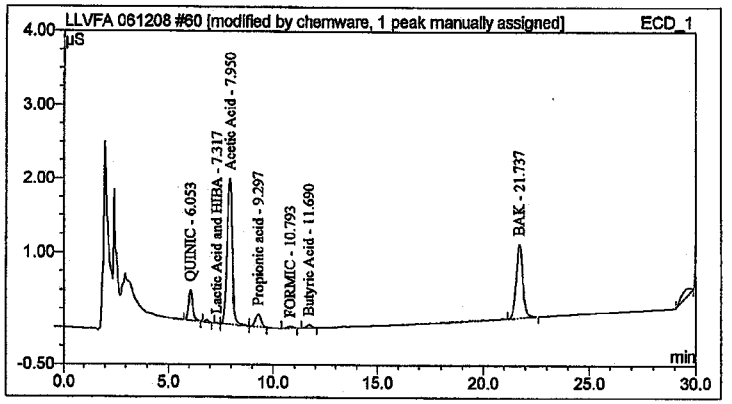
BOE-C6-0188870

MICROSEEPS

Sample Analysis Report

Sample Name:	P0805308-04A 100X	**Sequence No:**	60
Sequence Name:	LLVFA 061208	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	6/17/2008 3:14 AM	**Analytical Method:**	AM23G
System Operator:	chemware	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	6.053	0.088	0.406	BMB	n.a.
3	Lactic Acid and HIBA	7.317	0.001	0.007	BMB	0.1814
4	Acetic Acid	7.950	0.562	1.966	BMB	3.1523
5	Propionic acid	9.297	0.049	0.167	BMB	0.4674
6	FORMIC	10.793	0.008	0.024	BMB^	n.a.
7	Butyric Acid	11.690	0.012	0.038	BMB	0.1985
8	BAK	21.737	0.347	0.986	BMB	n.a.

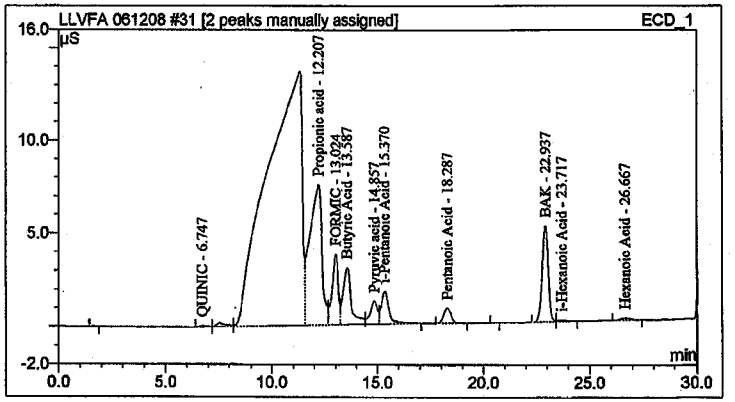


MICROSEEPS

Sample Analysis Report

Sample Name:	P0805308-05A	**Sequence No:**	31
Sequence Name:	LLVFA 061208	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	6/14/2008 3:16 AM	**Analytical Method:**	AM23G
System Operator:	chemware	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
2	QUINIC	6.747	0.020	0.060	BM ^	n.a.
5	Propionic acid	12.207	4.999	7.524	M	n.a.
6	FORMIC	13.024	1.295	3.766	M	n.a.
7	Butyric Acid	13.587	1.361	3.038	M	14.0509
8	Pyruvic acid	14.857	0.469	1.223	M ^	3.1078
9	i-Pentanoic Acid	15.370	0.746	1.740	MB	9.6765
10	Pentanoic Acid	18.287	0.326	0.813	BMB	3.8139
12	BAK	22.937	1.768	5.130	BM	n.a.
13	i-Hexanoic Acid	23.717	0.039	0.080	MB	0.6749
14	Hexanoic Acid	26.667	0.066	0.133	BMB	1.0033



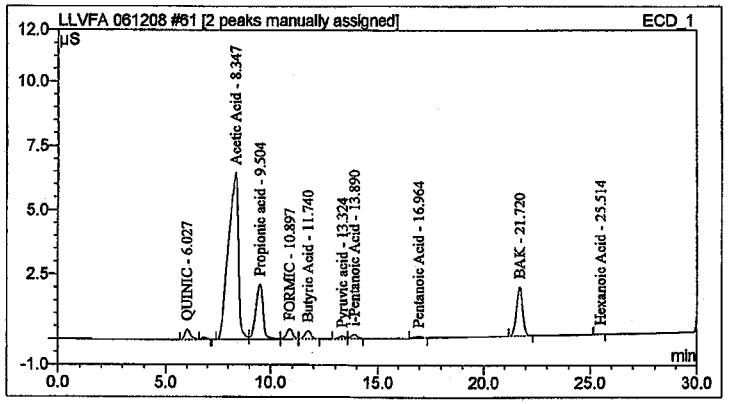
BOE-C6-0188871

MICROSEEPS

Sample Analysis Report

Sample Name:	P0805308-05A 10X	**Sequence No:**	61
Sequence Name:	LLVFA 061208	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	6/17/2008 3:55 AM	**Analytical Method:**	AM23G
System Operator:	chemware	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	6.027	0.122	0.399	BMB	n.a.
3	Acetic Acid	8.347	3.501	6.468	BM	25.9067
4	Propionic acid	9.504	0.798	2.117	M	6.4862
5	FORMIC	10.897	0.126	0.384	M ^	n.a.
6	Butyric Acid	11.740	0.101	0.311	MB	1.0046
7	Pyruvic acid	13.324	0.034	0.099	BM ^	0.4168
8	i-Pentanoic Acid	13.890	0.059	0.169	MB	0.7200
9	Pentanoic Acid	16.964	0.029	0.078	BMB	0.4431
10	BAK	21.720	0.642	1.889	BMB	n.a.
11	Hexanoic Acid	25.514	0.002	0.006	BMB	0.1288

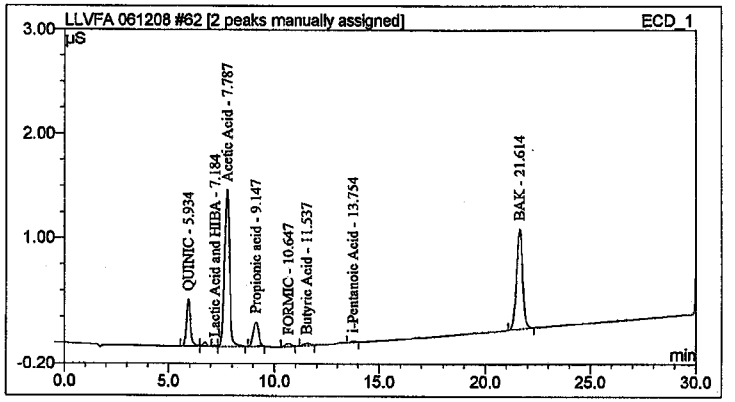


MICROSEEPS

Sample Analysis Report

Sample Name:	P0805308-05A 100X	**Sequence No:**	62
Sequence Name:	LLVFA 061208	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	6/17/2008 4:36 AM	**Analytical Method:**	AM23G
System Operator:	chemware	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	5.934	0.098	0.450	BM	n.a.
3	Lactic Acid and HIBA	7.184	0.001	0.006	Rd	0.1803
4	Acetic Acid	7.787	0.404	1.500	MB	2.2700
5	Propionic acid	9.147	0.068	0.232	BMB	0.6023
6	FORMIC	10.647	0.010	0.030	BMB^	n.a.
7	Butyric Acid	11.537	0.008	0.024	BMB	0.1670
8	i-Pentanoic Acid	13.754	0.004	0.013	BMB^	0.1319
9	BAK	21.614	0.327	0.954	BMB	n.a.



BOE-C6-0188872

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: 06/17/08
Received: 06/17/08
Issued: 07/09/08 15:38

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, 3 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 per EPA Method Update Rule the TDS analysis is referenced by SM2540C.

Please note due to multiple dilutions analyzed for sample -02, a vial with headspace > 6 mm was used for 8260B - Carbon Disulfide; the data has been qualified accordingly.

LABORATORY ID	CLIENT ID	MATRIX
IRF1437-01	WCC_12S_WG20080617_01	Water
IRF1437-02	AW0066UB_WG20080617_01	Water
IRF1437-03	TMW_07_WG20080617_01	Water
IRF1437-04	AW0067UB_WG20080617_01	Water
IRF1437-05	AW0073C_WG20080617_01	Water
IRF1437-06	TB_AVO20080617_01	Water

TestAmerica Irvine

Trupti Mistry
Project Manager

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)
1155.006
Report Number: IRF1437

Sampled: 06/17/08
Received: 06/17/08

LABORATORY ID	CLIENT ID	MATRIX
IRF1437-07	EB_AVO20080617_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-C6-0188873

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)
1155.006
Report Number: IRF1437

Sampled: 06/17/08
Received: 06/17/08

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

Sample ID: IRF1437-01 (WCC_12S_WG20080617_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	8F21018	4.5	10	ND	1	06/21/08	06/21/08	
Benzene	EPA 8260B	8F21018	0.28	0.50	ND	1	06/21/08	06/21/08	
Bromobenzene	EPA 8260B	8F21018	0.27	1.0	ND	1	06/21/08	06/21/08	
Bromochloromethane	EPA 8260B	8F21018	0.40	1.0	ND	1	06/21/08	06/21/08	
Bromodichloromethane	EPA 8260B	8F21018	0.30	1.0	ND	1	06/21/08	06/21/08	
Bromoform	EPA 8260B	8F21018	0.40	1.0	ND	1	06/21/08	06/21/08	
Bromomethane	EPA 8260B	8F21018	0.42	1.0	ND	1	06/21/08	06/21/08	
2-Butanone (MEK)	EPA 8260B	8F21018	4.7	5.0	ND	1	06/21/08	06/21/08	
n-Butylbenzene	EPA 8260B	8F21018	0.37	1.0	ND	1	06/21/08	06/21/08	
tert-Butylbenzene	EPA 8260B	8F21018	0.22	1.0	ND	1	06/21/08	06/21/08	
sec-Butylbenzene	EPA 8260B	8F21018	0.25	1.0	ND	1	06/21/08	06/21/08	
Carbon Disulfide	EPA 8260B	8F21018	0.48	1.0	ND	1	06/21/08	06/21/08	
Carbon tetrachloride	EPA 8260B	8F21018	0.28	0.50	ND	1	06/21/08	06/21/08	
Chlorobenzene	EPA 8260B	8F21018	0.36	1.0	ND	1	06/21/08	06/21/08	
Chloroethane	EPA 8260B	8F21018	0.40	2.0	ND	1	06/21/08	06/21/08	
Chloroform	EPA 8260B	8F21018	0.33	1.0	**2.2**	1	06/21/08	06/21/08	
Chloromethane	EPA 8260B	8F21018	0.40	2.0	ND	1	06/21/08	06/21/08	M2
4-Chlorotoluene	EPA 8260B	8F21018	0.29	1.0	ND	1	06/21/08	06/21/08	
2-Chlorotoluene	EPA 8260B	8F21018	0.28	1.0	ND	1	06/21/08	06/21/08	
1,2-Dibromo-3-chloropropane	EPA 8260B	8F21018	0.97	2.0	ND	1	06/21/08	06/21/08	
Dibromochloromethane	EPA 8260B	8F21018	0.40	1.0	ND	1	06/21/08	06/21/08	
1,2-Dibromoethane (EDB)	EPA 8260B	8F21018	0.40	1.0	ND	1	06/21/08	06/21/08	
1,2-Dichlorobenzene	EPA 8260B	8F21018	0.32	1.0	ND	1	06/21/08	06/21/08	
1,3-Dichlorobenzene	EPA 8260B	8F21018	0.35	1.0	ND	1	06/21/08	06/21/08	
1,4-Dichlorobenzene	EPA 8260B	8F21018	0.37	1.0	ND	1	06/21/08	06/21/08	
Dichlorodifluoromethane	EPA 8260B	8F21018	0.26	1.0	ND	1	06/21/08	06/21/08	
1,1-Dichloroethane	EPA 8260B	8F21018	0.40	1.0	**5.4**	1	06/21/08	06/21/08	
cis-1,2-Dichloroethene	EPA 8260B	8F21018	0.32	1.0	ND	1	06/21/08	06/21/08	
trans-1,2-Dichloroethene	EPA 8260B	8F21018	0.30	1.0	ND	1	06/21/08	06/21/08	
1,1-Dichloroethene	EPA 8260B	8F21018	0.42	1.0	**4.8**	1	06/21/08	06/21/08	
2,2-Dichloropropane	EPA 8260B	8F21018	0.34	1.0	ND	1	06/21/08	06/21/08	
1,2-Dichloropropane	EPA 8260B	8F21018	0.35	1.0	ND	1	06/21/08	06/21/08	
cis-1,3-Dichloropropene	EPA 8260B	8F21018	0.22	0.50	ND	1	06/21/08	06/21/08	C, L
trans-1,3-Dichloropropene	EPA 8260B	8F21018	0.32	0.50	ND	1	06/21/08	06/21/08	
1,1-Dichloropropene	EPA 8260B	8F21018	0.28	1.0	ND	1	06/21/08	06/21/08	
Ethylbenzene	EPA 8260B	8F21018	0.25	1.0	ND	1	06/21/08	06/21/08	
1,2-Dichloroethane	EPA 8260B	8F21018	0.28	0.50	ND	1	06/21/08	06/21/08	
Hexachlorobutadiene	EPA 8260B	8F21018	0.38	1.0	ND	1	06/21/08	06/21/08	
2-Hexanone	EPA 8260B	8F21018	2.6	6.0	ND	1	06/21/08	06/21/08	
Iodomethane	EPA 8260B	8F21018	1.0	2.0	ND	1	06/21/08	06/21/08	
Isopropylbenzene	EPA 8260B	8F21018	0.25	1.0	ND	1	06/21/08	06/21/08	

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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: IRF1437

Sampled: 06/17/08
Received: 06/17/08

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

Sample ID: IRF1437-01 (WCC_12S_WG20080617_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	8F21018	0.28	1.0	ND	1	06/21/08	06/21/08	
4-Methyl-2-pentanone (MIBK)	EPA 8260B	8F21018	3.5	5.0	ND	1	06/21/08	06/21/08	
n-Propylbenzene	EPA 8260B	8F21018	0.27	1.0	ND	1	06/21/08	06/21/08	
Styrene	EPA 8260B	8F21018	0.20	1.0	ND	1	06/21/08	06/21/08	
1,1,1,2-Tetrachloroethane	EPA 8260B	8F21018	0.27	1.0	ND	1	06/21/08	06/21/08	
1,1,2,2-Tetrachloroethane	EPA 8260B	8F21018	0.30	1.0	ND	1	06/21/08	06/21/08	
Tetrachloroethene	EPA 8260B	8F21018	0.32	1.0	**0.40**	1	06/21/08	06/21/08	Ja
Tetrahydrofuran (THF)	EPA 8260B	8F21018	3.5	10	ND	1	06/21/08	06/21/08	
Toluene	EPA 8260B	8F21018	0.36	1.0	ND	1	06/21/08	06/21/08	
1,2,3-Trichlorobenzene	EPA 8260B	8F21018	0.30	1.0	ND	1	06/21/08	06/21/08	
1,2,4-Trichlorobenzene	EPA 8260B	8F21018	0.48	1.0	ND	1	06/21/08	06/21/08	
1,1,1-Trichloroethane	EPA 8260B	8F21018	0.30	1.0	ND	1	06/21/08	06/21/08	
1,1,2-Trichloroethane	EPA 8260B	8F21018	0.30	1.0	ND	1	06/21/08	06/21/08	
Trichloroethene	EPA 8260B	8F21018	0.26	1.0	**44**	1	06/21/08	06/21/08	
Trichlorofluoromethane	EPA 8260B	8F21018	0.34	2.0	ND	1	06/21/08	06/21/08	
1,2,3-Trichloropropane	EPA 8260B	8F21018	0.40	1.0	ND	1	06/21/08	06/21/08	
1,2,4-Trimethylbenzene	EPA 8260B	8F21018	0.23	1.0	ND	1	06/21/08	06/21/08	
1,3,5-Trimethylbenzene	EPA 8260B	8F21018	0.26	1.0	ND	1	06/21/08	06/21/08	
Vinyl acetate	EPA 8260B	8F21018	1.0	6.0	ND	1	06/21/08	06/21/08	
Vinyl chloride	EPA 8260B	8F21018	0.40	0.50	ND	1	06/21/08	06/21/08	
m,p-Xylenes	EPA 8260B	8F21018	0.60	1.0	ND	1	06/21/08	06/21/08	
o-Xylene	EPA 8260B	8F21018	0.30	0.50	ND	1	06/21/08	06/21/08	
Xylenes, Total	EPA 8260B	8F21018	0.90	1.0	ND	1	06/21/08	06/21/08	
Di-isopropyl Ether (DIPE)	EPA 8260B	8F21018	0.25	2.0	ND	1	06/21/08	06/21/08	
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	8F21018	0.28	2.0	ND	1	06/21/08	06/21/08	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	8F21018	0.32	1.0	ND	1	06/21/08	06/21/08	
tert-Amyl Methyl Ether (TAME)	EPA 8260B	8F21018	0.33	2.0	ND	1	06/21/08	06/21/08	
tert-Butanol (TBA)	EPA 8260B	8F21018	6.5	25	ND	1	06/21/08	06/21/08	
Surrogate: 4-Bromofluorobenzene (80-120%)					*95 %*				
Surrogate: Dibromofluoromethane (80-120%)					*96 %*				
Surrogate: Toluene-d8 (80-120%)					*96 %*				

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BOE-C6-0188874

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: IRF1437

Sampled: 06/17/08
Received: 06/17/08

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: IRF1437-01RE1 (WCC_12S_WG20080617_01 - Water) - cont.									
Reporting Units: ug/l									
Methylene chloride	EPA 8260B	8F22005	0.95	1.0	ND	1	06/22/08	06/22/08	
Surrogate: 4-Bromofluorobenzene (80-120%)					*89 %*				
Surrogate: Dibromofluoromethane (80-120%)					*88 %*				
Surrogate: Toluene-d8 (80-120%)					*89 %*				

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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: IRF1437

Sampled: 06/17/08
Received: 06/17/08

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: IRF1437-02 (AW0066UB_WG20080617_01 - Water)									**P-HS**
Reporting Units: ug/l									
Carbon Disulfide	EPA 8260B	8F24012	2.4	5.0	**12**	5	06/24/08	06/25/08	
Surrogate: 4-Bromofluorobenzene (80-120%)					*94 %*				
Surrogate: Dibromofluoromethane (80-120%)					*101 %*				
Surrogate: Toluene-d8 (80-120%)					*96 %*				
Sample ID: IRF1437-02RE1 (AW0066UB_WG20080617_01 - Water)									
Reporting Units: ug/l									
Acetone	EPA 8260B	8F23038	90	200	**450**	20	06/23/08	06/23/08	
cis-1,2-Dichloroethene	EPA 8260B	8F23038	6.4	20	**920**	20	06/23/08	06/23/08	
1,1-Dichloroethene	EPA 8260B	8F23038	8.4	20	**1500**	20	06/23/08	06/23/08	
4-Methyl-2-pentanone (MIBK)	EPA 8260B	8F23038	70	100	**590**	20	06/23/08	06/23/08	
Toluene	EPA 8260B	8F23038	7.2	20	**2000**	20	06/23/08	06/23/08	
Vinyl chloride	EPA 8260B	8F23038	8.0	10	**860**	20	06/23/08	06/23/08	
Surrogate: 4-Bromofluorobenzene (80-120%)					*94 %*				
Surrogate: Dibromofluoromethane (80-120%)					*105 %*				
Surrogate: Toluene-d8 (80-120%)					*97 %*				
Sample ID: IRF1437-02RE2 (AW0066UB_WG20080617_01 - Water)									
Reporting Units: ug/l									
Benzene	EPA 8260B	8F22005	0.56	1.0	**19**	2	06/22/08	06/22/08	
Bromobenzene	EPA 8260B	8F22005	0.54	2.0	ND	2	06/22/08	06/22/08	
Bromochloromethane	EPA 8260B	8F22005	0.80	2.0	ND	2	06/22/08	06/22/08	
Bromodichloromethane	EPA 8260B	8F22005	0.60	2.0	ND	2	06/22/08	06/22/08	
Bromoform	EPA 8260B	8F22005	0.80	2.0	ND	2	06/22/08	06/22/08	
Bromomethane	EPA 8260B	8F22005	0.84	2.0	ND	2	06/22/08	06/22/08	
2-Butanone (MEK)	EPA 8260B	8F22005	9.4	10	**120**	2	06/22/08	06/22/08	
n-Butylbenzene	EPA 8260B	8F22005	0.74	2.0	ND	2	06/22/08	06/22/08	
tert-Butylbenzene	EPA 8260B	8F22005	0.44	2.0	ND	2	06/22/08	06/22/08	
sec-Butylbenzene	EPA 8260B	8F22005	0.50	2.0	ND	2	06/22/08	06/22/08	
Carbon tetrachloride	EPA 8260B	8F22005	0.56	1.0	ND	2	06/22/08	06/22/08	
Chlorobenzene	EPA 8260B	8F22005	0.72	2.0	ND	2	06/22/08	06/22/08	
Chloroethane	EPA 8260B	8F22005	0.80	4.0	**1.1**	2	06/22/08	06/22/08	Ja
Chloroform	EPA 8260B	8F22005	0.66	2.0	**5.8**	2	06/22/08	06/22/08	
Chloromethane	EPA 8260B	8F22005	0.80	4.0	ND	2	06/22/08	06/22/08	
4-Chlorotoluene	EPA 8260B	8F22005	0.58	2.0	ND	2	06/22/08	06/22/08	
2-Chlorotoluene	EPA 8260B	8F22005	0.56	2.0	ND	2	06/22/08	06/22/08	
1,2-Dibromo-3-chloropropane	EPA 8260B	8F22005	1.9	4.0	ND	2	06/22/08	06/22/08	
Dibromochloromethane	EPA 8260B	8F22005	0.80	2.0	ND	2	06/22/08	06/22/08	
1,2-Dibromoethane (EDB)	EPA 8260B	8F22005	0.80	2.0	ND	2	06/22/08	06/22/08	
1,2-Dichlorobenzene	EPA 8260B	8F22005	0.64	2.0	ND	2	06/22/08	06/22/08	
1,3-Dichlorobenzene	EPA 8260B	8F22005	0.70	2.0	ND	2	06/22/08	06/22/08	
1,4-Dichlorobenzene	EPA 8260B	8F22005	0.74	2.0	ND	2	06/22/08	06/22/08	

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BOE-C6-0188875

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: IRF1437

Sampled: 06/17/08
Received: 06/17/08

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: IRF1437-02RE2 (AW0066UB_WG20080617_01 - Water) - cont.									
Reporting Units: ug/l									
Dichlorodifluoromethane	EPA 8260B	8F22005	0.52	2.0	ND	2	06/22/08	06/22/08	
1,1-Dichloroethane	EPA 8260B	8F22005	0.80	2.0	**100**	2	06/22/08	06/22/08	
trans-1,2-Dichloroethene	EPA 8260B	8F22005	0.60	2.0	**67**	2	06/22/08	06/22/08	
2,2-Dichloropropane	EPA 8260B	8F22005	0.68	2.0	ND	2	06/22/08	06/22/08	
1,2-Dichloropropane	EPA 8260B	8F22005	0.70	2.0	ND	2	06/22/08	06/22/08	
cis-1,3-Dichloropropene	EPA 8260B	8F22005	0.44	1.0	ND	2	06/22/08	06/22/08	C, L
trans-1,3-Dichloropropene	EPA 8260B	8F22005	0.64	1.0	ND	2	06/22/08	06/22/08	
1,1-Dichloropropene	EPA 8260B	8F22005	0.56	2.0	ND	2	06/22/08	06/22/08	
Ethylbenzene	EPA 8260B	8F22005	0.50	2.0	**4.1**	2	06/22/08	06/22/08	
1,2-Dichloroethane	EPA 8260B	8F22005	0.56	1.0	**28**	2	06/22/08	06/22/08	
Hexachlorobutadiene	EPA 8260B	8F22005	0.76	2.0	ND	2	06/22/08	06/22/08	
2-Hexanone	EPA 8260B	8F22005	5.2	12	ND	2	06/22/08	06/22/08	
Iodomethane	EPA 8260B	8F22005	2.0	4.0	ND	2	06/22/08	06/22/08	
Isopropylbenzene	EPA 8260B	8F22005	0.50	2.0	ND	2	06/22/08	06/22/08	
p-Isopropyltoluene	EPA 8260B	8F22005	0.56	2.0	ND	2	06/22/08	06/22/08	
Methylene chloride	EPA 8260B	8F22005	1.9	2.0	ND	2	06/22/08	06/22/08	
n-Propylbenzene	EPA 8260B	8F22005	0.54	2.0	ND	2	06/22/08	06/22/08	
Styrene	EPA 8260B	8F22005	0.40	2.0	ND	2	06/22/08	06/22/08	
1,1,1,2-Tetrachloroethane	EPA 8260B	8F22005	0.54	2.0	ND	2	06/22/08	06/22/08	
1,1,2,2-Tetrachloroethane	EPA 8260B	8F22005	0.60	2.0	ND	2	06/22/08	06/22/08	
Tetrachloroethene	EPA 8260B	8F22005	0.64	2.0	ND	2	06/22/08	06/22/08	
Tetrahydrofuran (THF)	EPA 8260B	8F22005	7.0	20	**12**	2	06/22/08	06/22/08	Ja
1,2,3-Trichlorobenzene	EPA 8260B	8F22005	0.60	2.0	ND	2	06/22/08	06/22/08	
1,2,4-Trichlorobenzene	EPA 8260B	8F22005	0.96	2.0	ND	2	06/22/08	06/22/08	
1,1,1-Trichloroethane	EPA 8260B	8F22005	0.60	2.0	**25**	2	06/22/08	06/22/08	
1,1,2-Trichloroethane	EPA 8260B	8F22005	0.60	2.0	**19**	2	06/22/08	06/22/08	
Trichloroethene	EPA 8260B	8F22005	0.52	2.0	**590**	2	06/22/08	06/22/08	
Trichlorofluoromethane	EPA 8260B	8F22005	0.68	4.0	ND	2	06/22/08	06/22/08	
1,2,3-Trichloropropane	EPA 8260B	8F22005	0.80	2.0	ND	2	06/22/08	06/22/08	
1,2,4-Trimethylbenzene	EPA 8260B	8F22005	0.46	2.0	**0.78**	2	06/22/08	06/22/08	Ja
1,3,5-Trimethylbenzene	EPA 8260B	8F22005	0.52	2.0	ND	2	06/22/08	06/22/08	
Vinyl acetate	EPA 8260B	8F22005	2.0	12	**8.1**	2	06/22/08	06/22/08	Ja
m,p-Xylenes	EPA 8260B	8F22005	1.2	2.0	**20**	2	06/22/08	06/22/08	
o-Xylene	EPA 8260B	8F22005	0.60	1.0	**7.8**	2	06/22/08	06/22/08	
Xylenes, Total	EPA 8260B	8F22005	1.8	2.0	**28**	2	06/22/08	06/22/08	
Di-isopropyl Ether (DIPE)	EPA 8260B	8F22005	0.50	4.0	ND	2	06/22/08	06/22/08	
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	8F22005	0.56	4.0	ND	2	06/22/08	06/22/08	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	8F22005	0.64	2.0	ND	2	06/22/08	06/22/08	
tert-Amyl Methyl Ether (TAME)	EPA 8260B	8F22005	0.66	4.0	ND	2	06/22/08	06/22/08	
tert-Butanol (TBA)	EPA 8260B	8F22005	13	50	ND	2	06/22/08	06/22/08	
Surrogate: 4-Bromofluorobenzene (80-120%)					*90 %*				

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Project Manager

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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: IRF1437

Sampled: 06/17/08
Received: 06/17/08

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: IRF1437-02RE2 (AW0066UB_WG20080617_01 - Water) - cont.									
Reporting Units: ug/l									
Surrogate: Dibromofluoromethane (80-120%)					*89 %*				
Surrogate: Toluene-d8 (80-120%)					*92 %*				

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BOE-C6-0188876

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: IRF1437

Sampled: 06/17/08
Received: 06/17/08

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: IRF1437-03 (TMW_07_WG20080617_01 - Water)									
Reporting Units: ug/l									
Trichloroethene	EPA 8260B	8F21018	1.0	4.0	**970**	4	06/21/08	06/21/08	
Surrogate: 4-Bromofluorobenzene (80-120%)					*92 %*				
Surrogate: Dibromofluoromethane (80-120%)					*95 %*				
Surrogate: Toluene-d8 (80-120%)					*97 %*				
Sample ID: IRF1437-03RE1 (TMW_07_WG20080617_01 - Water)									
Reporting Units: ug/l									
Acetone	EPA 8260B	8F23038	9.0	20	ND	2	06/23/08	06/23/08	
Benzene	EPA 8260B	8F23038	0.56	1.0	ND	2	06/23/08	06/23/08	
Bromobenzene	EPA 8260B	8F23038	0.54	2.0	ND	2	06/23/08	06/23/08	
Bromochloromethane	EPA 8260B	8F23038	0.80	2.0	ND	2	06/23/08	06/23/08	
Bromodichloromethane	EPA 8260B	8F23038	0.60	2.0	ND	2	06/23/08	06/23/08	
Bromoform	EPA 8260B	8F23038	0.80	2.0	ND	2	06/23/08	06/23/08	
Bromomethane	EPA 8260B	8F23038	0.84	2.0	ND	2	06/23/08	06/23/08	
2-Butanone (MEK)	EPA 8260B	8F23038	9.4	10	ND	2	06/23/08	06/23/08	
n-Butylbenzene	EPA 8260B	8F23038	0.74	2.0	ND	2	06/23/08	06/23/08	
tert-Butylbenzene	EPA 8260B	8F23038	0.44	2.0	ND	2	06/23/08	06/23/08	
sec-Butylbenzene	EPA 8260B	8F23038	0.50	2.0	ND	2	06/23/08	06/23/08	
Carbon Disulfide	EPA 8260B	8F23038	0.96	2.0	ND	2	06/23/08	06/23/08	
Carbon tetrachloride	EPA 8260B	8F23038	0.56	1.0	ND	2	06/23/08	06/23/08	
Chlorobenzene	EPA 8260B	8F23038	0.72	2.0	ND	2	06/23/08	06/23/08	
Chloroethane	EPA 8260B	8F23038	0.80	4.0	ND	2	06/23/08	06/23/08	
Chloroform	EPA 8260B	8F23038	0.66	2.0	**4.4**	2	06/23/08	06/23/08	
Chloromethane	EPA 8260B	8F23038	0.80	4.0	ND	2	06/23/08	06/23/08	
4-Chlorotoluene	EPA 8260B	8F23038	0.58	2.0	ND	2	06/23/08	06/23/08	
2-Chlorotoluene	EPA 8260B	8F23038	0.56	2.0	ND	2	06/23/08	06/23/08	
1,2-Dibromo-3-chloropropane	EPA 8260B	8F23038	1.9	4.0	ND	2	06/23/08	06/23/08	
Dibromochloromethane	EPA 8260B	8F23038	0.80	2.0	ND	2	06/23/08	06/23/08	
1,2-Dibromoethane (EDB)	EPA 8260B	8F23038	0.80	2.0	ND	2	06/23/08	06/23/08	
1,2-Dichlorobenzene	EPA 8260B	8F23038	0.64	2.0	ND	2	06/23/08	06/23/08	
1,3-Dichlorobenzene	EPA 8260B	8F23038	0.70	2.0	ND	2	06/23/08	06/23/08	
1,4-Dichlorobenzene	EPA 8260B	8F23038	0.74	2.0	ND	2	06/23/08	06/23/08	
Dichlorodifluoromethane	EPA 8260B	8F23038	0.52	2.0	ND	2	06/23/08	06/23/08	
1,1-Dichloroethane	EPA 8260B	8F23038	0.80	2.0	**1.2**	2	06/23/08	06/23/08	Ja
cis-1,2-Dichloroethene	EPA 8260B	8F23038	0.64	2.0	**1.4**	2	06/23/08	06/23/08	Ja
trans-1,2-Dichloroethene	EPA 8260B	8F23038	0.60	2.0	ND	2	06/23/08	06/23/08	
1,1-Dichloroethene	EPA 8260B	8F23038	0.84	2.0	**10**	2	06/23/08	06/23/08	
2,2-Dichloropropane	EPA 8260B	8F23038	0.68	2.0	ND	2	06/23/08	06/23/08	
1,2-Dichloropropane	EPA 8260B	8F23038	0.70	2.0	ND	2	06/23/08	06/23/08	
cis-1,3-Dichloropropene	EPA 8260B	8F23038	0.44	1.0	ND	2	06/23/08	06/23/08	
trans-1,3-Dichloropropene	EPA 8260B	8F23038	0.64	1.0	ND	2	06/23/08	06/23/08	C

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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 (02/26/08)
1155.006
Report Number: IRF1437

Sampled: 06/17/08
Received: 06/17/08

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: IRF1437-03RE1 (TMW_07_WG20080617_01 - Water) - cont.									
Reporting Units: ug/l									
1,1-Dichloropropene	EPA 8260B	8F23038	0.56	2.0	ND	2	06/23/08	06/23/08	
Ethylbenzene	EPA 8260B	8F23038	0.50	2.0	ND	2	06/23/08	06/23/08	
1,2-Dichloroethane	EPA 8260B	8F23038	0.56	1.0	ND	2	06/23/08	06/23/08	
Hexachlorobutadiene	EPA 8260B	8F23038	0.76	2.0	ND	2	06/23/08	06/23/08	
2-Hexanone	EPA 8260B	8F23038	5.2	12	ND	2	06/23/08	06/23/08	
Iodomethane	EPA 8260B	8F23038	2.0	4.0	ND	2	06/23/08	06/23/08	
Isopropylbenzene	EPA 8260B	8F23038	0.50	2.0	ND	2	06/23/08	06/23/08	
p-Isopropyltoluene	EPA 8260B	8F23038	0.56	2.0	ND	2	06/23/08	06/23/08	
4-Methyl-2-pentanone (MIBK)	EPA 8260B	8F23038	7.0	10	ND	2	06/23/08	06/23/08	
Methylene chloride	EPA 8260B	8F23038	1.9	2.0	ND	2	06/23/08	06/23/08	
n-Propylbenzene	EPA 8260B	8F23038	0.54	2.0	ND	2	06/23/08	06/23/08	
Styrene	EPA 8260B	8F23038	0.40	2.0	ND	2	06/23/08	06/23/08	
1,1,1,2-Tetrachloroethane	EPA 8260B	8F23038	0.54	2.0	ND	2	06/23/08	06/23/08	
1,1,2,2-Tetrachloroethane	EPA 8260B	8F23038	0.60	2.0	ND	2	06/23/08	06/23/08	
Tetrachloroethene	EPA 8260B	8F23038	0.64	2.0	**0.76**	2	06/23/08	06/23/08	Ja
Tetrahydrofuran (THF)	EPA 8260B	8F23038	7.0	20	ND	2	06/23/08	06/23/08	
Toluene	EPA 8260B	8F23038	0.72	2.0	ND	2	06/23/08	06/23/08	
1,2,3-Trichlorobenzene	EPA 8260B	8F23038	0.60	2.0	ND	2	06/23/08	06/23/08	
1,2,4-Trichlorobenzene	EPA 8260B	8F23038	0.96	2.0	ND	2	06/23/08	06/23/08	
1,1,1-Trichloroethane	EPA 8260B	8F23038	0.60	2.0	ND	2	06/23/08	06/23/08	
1,1,2-Trichloroethane	EPA 8260B	8F23038	0.60	2.0	**6.9**	2	06/23/08	06/23/08	
Trichlorofluoromethane	EPA 8260B	8F23038	0.68	4.0	ND	2	06/23/08	06/23/08	
1,2,3-Trichloropropane	EPA 8260B	8F23038	0.80	2.0	ND	2	06/23/08	06/23/08	
1,2,4-Trimethylbenzene	EPA 8260B	8F23038	0.46	2.0	ND	2	06/23/08	06/23/08	
1,3,5-Trimethylbenzene	EPA 8260B	8F23038	0.52	2.0	ND	2	06/23/08	06/23/08	
Vinyl acetate	EPA 8260B	8F23038	2.0	12	ND	2	06/23/08	06/23/08	
Vinyl chloride	EPA 8260B	8F23038	0.80	1.0	ND	2	06/23/08	06/23/08	
m,p-Xylenes	EPA 8260B	8F23038	1.2	2.0	ND	2	06/23/08	06/23/08	
o-Xylene	EPA 8260B	8F23038	0.60	1.0	ND	2	06/23/08	06/23/08	
Xylenes, Total	EPA 8260B	8F23038	1.8	2.0	ND	2	06/23/08	06/23/08	
Di-isopropyl Ether (DIPE)	EPA 8260B	8F23038	0.50	4.0	ND	2	06/23/08	06/23/08	
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	8F23038	0.56	4.0	ND	2	06/23/08	06/23/08	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	8F23038	0.64	2.0	ND	2	06/23/08	06/23/08	
tert-Amyl Methyl Ether (TAME)	EPA 8260B	8F23038	0.66	4.0	ND	2	06/23/08	06/23/08	
tert-Butanol (TBA)	EPA 8260B	8F23038	13	50	ND	2	06/23/08	06/23/08	
Surrogate: 4-Bromofluorobenzene (80-120%)					*91 %*				
Surrogate: Dibromofluoromethane (80-120%)					*114 %*				
Surrogate: Toluene-d8 (80-120%)					*97 %*				

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BOE-C6-0188877

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: IRF1437

Sampled: 06/17/08
Received: 06/17/08

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

Sample ID: IRF1437-04 (AW0067UB_WG20080617_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	8F22005	18	40	**550**	4	06/22/08	06/22/08	
Benzene	EPA 8260B	8F22005	1.1	2.0	**18**	4	06/22/08	06/22/08	
Bromobenzene	EPA 8260B	8F22005	1.1	4.0	ND	4	06/22/08	06/22/08	
Bromochloromethane	EPA 8260B	8F22005	1.6	4.0	ND	4	06/22/08	06/22/08	
Bromodichloromethane	EPA 8260B	8F22005	1.2	4.0	ND	4	06/22/08	06/22/08	
Bromoform	EPA 8260B	8F22005	1.6	4.0	ND	4	06/22/08	06/22/08	
Bromomethane	EPA 8260B	8F22005	1.7	4.0	ND	4	06/22/08	06/22/08	
2-Butanone (MEK)	EPA 8260B	8F22005	19	20	**200**	4	06/22/08	06/22/08	
n-Butylbenzene	EPA 8260B	8F22005	1.5	4.0	ND	4	06/22/08	06/22/08	
tert-Butylbenzene	EPA 8260B	8F22005	0.88	4.0	ND	4	06/22/08	06/22/08	
sec-Butylbenzene	EPA 8260B	8F22005	1.0	4.0	ND	4	06/22/08	06/22/08	
Carbon Disulfide	EPA 8260B	8F22005	1.9	4.0	**15**	4	06/22/08	06/22/08	
Carbon tetrachloride	EPA 8260B	8F22005	1.1	2.0	ND	4	06/22/08	06/22/08	
Chlorobenzene	EPA 8260B	8F22005	1.4	4.0	ND	4	06/22/08	06/22/08	
Chloroethane	EPA 8260B	8F22005	1.6	8.0	**5.1**	4	06/22/08	06/22/08	Ja
Chloroform	EPA 8260B	8F22005	1.3	4.0	**5.8**	4	06/22/08	06/22/08	
Chloromethane	EPA 8260B	8F22005	1.6	8.0	ND	4	06/22/08	06/22/08	
4-Chlorotoluene	EPA 8260B	8F22005	1.2	4.0	ND	4	06/22/08	06/22/08	
2-Chlorotoluene	EPA 8260B	8F22005	1.1	4.0	ND	4	06/22/08	06/22/08	
1,2-Dibromo-3-chloropropane	EPA 8260B	8F22005	3.9	8.0	ND	4	06/22/08	06/22/08	
Dibromochloromethane	EPA 8260B	8F22005	1.6	4.0	ND	4	06/22/08	06/22/08	
1,2-Dibromoethane (EDB)	EPA 8260B	8F22005	1.6	4.0	ND	4	06/22/08	06/22/08	
1,2-Dichlorobenzene	EPA 8260B	8F22005	1.3	4.0	ND	4	06/22/08	06/22/08	
1,3-Dichlorobenzene	EPA 8260B	8F22005	1.4	4.0	ND	4	06/22/08	06/22/08	
1,4-Dichlorobenzene	EPA 8260B	8F22005	1.5	4.0	ND	4	06/22/08	06/22/08	
Dichlorodifluoromethane	EPA 8260B	8F22005	1.0	4.0	ND	4	06/22/08	06/22/08	
1,1-Dichloroethane	EPA 8260B	8F22005	1.6	4.0	**100**	4	06/22/08	06/22/08	
cis-1,2-Dichloroethene	EPA 8260B	8F22005	1.3	4.0	**820**	4	06/22/08	06/22/08	
trans-1,2-Dichloroethene	EPA 8260B	8F22005	1.2	4.0	**63**	4	06/22/08	06/22/08	
1,1-Dichloroethene	EPA 8260B	8F22005	1.7	4.0	**920**	4	06/22/08	06/22/08	
2,2-Dichloropropane	EPA 8260B	8F22005	1.4	4.0	ND	4	06/22/08	06/22/08	
1,2-Dichloropropane	EPA 8260B	8F22005	1.4	4.0	ND	4	06/22/08	06/22/08	
cis-1,3-Dichloropropene	EPA 8260B	8F22005	0.88	2.0	ND	4	06/22/08	06/22/08	C, L
trans-1,3-Dichloropropene	EPA 8260B	8F22005	1.3	2.0	ND	4	06/22/08	06/22/08	
1,1-Dichloropropene	EPA 8260B	8F22005	1.1	4.0	ND	4	06/22/08	06/22/08	
Ethylbenzene	EPA 8260B	8F22005	1.0	4.0	**3.4**	4	06/22/08	06/22/08	Ja
1,2-Dichloroethane	EPA 8260B	8F22005	1.1	2.0	**29**	4	06/22/08	06/22/08	
Hexachlorobutadiene	EPA 8260B	8F22005	1.5	4.0	ND	4	06/22/08	06/22/08	
2-Hexanone	EPA 8260B	8F22005	10	24	ND	4	06/22/08	06/22/08	
Iodomethane	EPA 8260B	8F22005	4.0	8.0	ND	4	06/22/08	06/22/08	
Isopropylbenzene	EPA 8260B	8F22005	1.0	4.0	ND	4	06/22/08	06/22/08	

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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: IRF1437

Sampled: 06/17/08
Received: 06/17/08

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

Sample ID: IRF1437-04 (AW0067UB_WG20080617_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	8F22005	1.1	4.0	ND	4	06/22/08	06/22/08	
4-Methyl-2-pentanone (MIBK)	EPA 8260B	8F22005	14	20	**650**	4	06/22/08	06/22/08	
Methylene chloride	EPA 8260B	8F22005	3.8	4.0	ND	4	06/22/08	06/22/08	
n-Propylbenzene	EPA 8260B	8F22005	1.1	4.0	ND	4	06/22/08	06/22/08	
Styrene	EPA 8260B	8F22005	0.80	4.0	ND	4	06/22/08	06/22/08	
1,1,1,2-Tetrachloroethane	EPA 8260B	8F22005	1.1	4.0	ND	4	06/22/08	06/22/08	
1,1,2,2-Tetrachloroethane	EPA 8260B	8F22005	1.2	4.0	ND	4	06/22/08	06/22/08	
Tetrachloroethene	EPA 8260B	8F22005	1.3	4.0	ND	4	06/22/08	06/22/08	
Tetrahydrofuran (THF)	EPA 8260B	8F22005	14	40	**22**	4	06/22/08	06/22/08	Ja
1,2,3-Trichlorobenzene	EPA 8260B	8F22005	1.2	4.0	ND	4	06/22/08	06/22/08	
1,2,4-Trichlorobenzene	EPA 8260B	8F22005	1.9	4.0	ND	4	06/22/08	06/22/08	
1,1,1-Trichloroethane	EPA 8260B	8F22005	1.2	4.0	**20**	4	06/22/08	06/22/08	
1,1,2-Trichloroethane	EPA 8260B	8F22005	1.2	4.0	**20**	4	06/22/08	06/22/08	
Trichloroethene	EPA 8260B	8F22005	1.0	4.0	**510**	4	06/22/08	06/22/08	
Trichlorofluoromethane	EPA 8260B	8F22005	1.4	8.0	ND	4	06/22/08	06/22/08	
1,2,3-Trichloropropane	EPA 8260B	8F22005	1.6	4.0	ND	4	06/22/08	06/22/08	
1,2,4-Trimethylbenzene	EPA 8260B	8F22005	0.92	4.0	ND	4	06/22/08	06/22/08	
1,3,5-Trimethylbenzene	EPA 8260B	8F22005	1.0	4.0	ND	4	06/22/08	06/22/08	
Vinyl acetate	EPA 8260B	8F22005	4.0	24	**9.2**	4	06/22/08	06/22/08	Ja
m,p-Xylenes	EPA 8260B	8F22005	2.4	4.0	**15**	4	06/22/08	06/22/08	
o-Xylene	EPA 8260B	8F22005	1.2	2.0	**6.1**	4	06/22/08	06/22/08	
Xylenes, Total	EPA 8260B	8F22005	3.6	4.0	**21**	4	06/22/08	06/22/08	
Di-isopropyl Ether (DIPE)	EPA 8260B	8F22005	1.0	8.0	ND	4	06/22/08	06/22/08	
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	8F22005	1.1	8.0	ND	4	06/22/08	06/22/08	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	8F22005	1.3	4.0	ND	4	06/22/08	06/22/08	
tert-Amyl Methyl Ether (TAME)	EPA 8260B	8F22005	1.3	8.0	ND	4	06/22/08	06/22/08	
tert-Butanol (TBA)	EPA 8260B	8F22005	26	100	ND	4	06/22/08	06/22/08	
Surrogate: 4-Bromofluorobenzene (80-120%)					*91 %*				
Surrogate: Dibromofluoromethane (80-120%)					*89 %*				
Surrogate: Toluene-d8 (80-120%)					*90 %*				

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Project Manager

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BOE-C6-0188878

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: IRF1437

Sampled: 06/17/08
Received: 06/17/08

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: IRF1437-04RE1 (AW0067UB_WG20080617_01 - Water) - cont.									
Reporting Units: ug/l									
Toluene	EPA 8260B	8F23055	14	40	**2000**	40	06/23/08	06/24/08	
Vinyl chloride	EPA 8260B	8F23055	16	20	**780**	40	06/23/08	06/24/08	
Surrogate: 4-Bromofluorobenzene (80-120%)					*90 %*				
Surrogate: Dibromofluoromethane (80-120%)					*88 %*				
Surrogate: Toluene-d8 (80-120%)					*97 %*				

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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: IRF1437

Sampled: 06/17/08
Received: 06/17/08

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: IRF1437-05 (AW0073C_WG20080617_01 - Water)									
Reporting Units: ug/l									
Tetrahydrofuran (THF)	EPA 8260B	8F21018	140	400	**2200**	40	06/21/08	06/21/08	
Toluene	EPA 8260B	8F21018	14	40	**850**	40	06/21/08	06/21/08	
Vinyl chloride	EPA 8260B	8F21018	16	20	**480**	40	06/21/08	06/21/08	
Surrogate: 4-Bromofluorobenzene (80-120%)					*92 %*				
Surrogate: Dibromofluoromethane (80-120%)					*97 %*				
Surrogate: Toluene-d8 (80-120%)					*97 %*				
Sample ID: IRF1437-05RE1 (AW0073C_WG20080617_01 - Water)									
Reporting Units: ug/l									
Acetone	EPA 8260B	8F23055	9.0	20	ND	2	06/23/08	06/24/08	
Benzene	EPA 8260B	8F23055	0.56	1.0	**3.9**	2	06/23/08	06/24/08	
Bromobenzene	EPA 8260B	8F23055	0.54	2.0	ND	2	06/23/08	06/24/08	
Bromochloromethane	EPA 8260B	8F23055	0.80	2.0	ND	2	06/23/08	06/24/08	
Bromodichloromethane	EPA 8260B	8F23055	0.60	2.0	ND	2	06/23/08	06/24/08	
Bromoform	EPA 8260B	8F23055	0.80	2.0	ND	2	06/23/08	06/24/08	
Bromomethane	EPA 8260B	8F23055	0.84	2.0	ND	2	06/23/08	06/24/08	
2-Butanone (MEK)	EPA 8260B	8F23055	9.4	10	ND	2	06/23/08	06/24/08	
n-Butylbenzene	EPA 8260B	8F23055	0.74	2.0	ND	2	06/23/08	06/24/08	
tert-Butylbenzene	EPA 8260B	8F23055	0.44	2.0	ND	2	06/23/08	06/24/08	
sec-Butylbenzene	EPA 8260B	8F23055	0.50	2.0	ND	2	06/23/08	06/24/08	
Carbon Disulfide	EPA 8260B	8F23055	0.96	2.0	ND	2	06/23/08	06/24/08	
Carbon tetrachloride	EPA 8260B	8F23055	0.56	1.0	ND	2	06/23/08	06/24/08	
Chlorobenzene	EPA 8260B	8F23055	0.72	2.0	ND	2	06/23/08	06/24/08	
Chloroethane	EPA 8260B	8F23055	0.80	4.0	ND	2	06/23/08	06/24/08	
Chloroform	EPA 8260B	8F23055	0.66	2.0	ND	2	06/23/08	06/24/08	
Chloromethane	EPA 8260B	8F23055	0.80	4.0	ND	2	06/23/08	06/24/08	
4-Chlorotoluene	EPA 8260B	8F23055	0.58	2.0	ND	2	06/23/08	06/24/08	
2-Chlorotoluene	EPA 8260B	8F23055	0.56	2.0	ND	2	06/23/08	06/24/08	
1,2-Dibromo-3-chloropropane	EPA 8260B	8F23055	1.9	4.0	ND	2	06/23/08	06/24/08	
Dibromochloromethane	EPA 8260B	8F23055	0.80	2.0	ND	2	06/23/08	06/24/08	
1,2-Dibromoethane (EDB)	EPA 8260B	8F23055	0.80	2.0	ND	2	06/23/08	06/24/08	
1,2-Dichlorobenzene	EPA 8260B	8F23055	0.64	2.0	ND	2	06/23/08	06/24/08	
1,3-Dichlorobenzene	EPA 8260B	8F23055	0.70	2.0	ND	2	06/23/08	06/24/08	
1,4-Dichlorobenzene	EPA 8260B	8F23055	0.74	2.0	ND	2	06/23/08	06/24/08	
Dichlorodifluoromethane	EPA 8260B	8F23055	0.52	2.0	ND	2	06/23/08	06/24/08	
1,1-Dichloroethane	EPA 8260B	8F23055	0.80	2.0	**38**	2	06/23/08	06/24/08	
cis-1,2-Dichloroethene	EPA 8260B	8F23055	0.64	2.0	**36**	2	06/23/08	06/24/08	
trans-1,2-Dichloroethene	EPA 8260B	8F23055	0.60	2.0	**11**	2	06/23/08	06/24/08	
1,1-Dichloroethene	EPA 8260B	8F23055	0.84	2.0	**110**	2	06/23/08	06/24/08	
2,2-Dichloropropane	EPA 8260B	8F23055	0.68	2.0	ND	2	06/23/08	06/24/08	
1,2-Dichloropropane	EPA 8260B	8F23055	0.70	2.0	ND	2	06/23/08	06/24/08	

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BOE-C6-0188879

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: IRF1437

Sampled: 06/17/08
Received: 06/17/08

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: IRF1437-05RE1 (AW0073C_WG20080617_01 - Water) - cont.									
Reporting Units: ug/l									
cis-1,3-Dichloropropene	EPA 8260B	8F23055	0.44	1.0	ND	2	06/23/08	06/24/08	L
trans-1,3-Dichloropropene	EPA 8260B	8F23055	0.64	1.0	ND	2	06/23/08	06/24/08	
1,1-Dichloropropene	EPA 8260B	8F23055	0.56	2.0	ND	2	06/23/08	06/24/08	
Ethylbenzene	EPA 8260B	8F23055	0.50	2.0	**1.0**	2	06/23/08	06/24/08	Ja
1,2-Dichloroethane	EPA 8260B	8F23055	0.56	1.0	**7.3**	2	06/23/08	06/24/08	
Hexachlorobutadiene	EPA 8260B	8F23055	0.76	2.0	ND	2	06/23/08	06/24/08	
2-Hexanone	EPA 8260B	8F23055	5.2	12	ND	2	06/23/08	06/24/08	
Iodomethane	EPA 8260B	8F23055	2.0	4.0	ND	2	06/23/08	06/24/08	
Isopropylbenzene	EPA 8260B	8F23055	0.50	2.0	ND	2	06/23/08	06/24/08	
p-Isopropyltoluene	EPA 8260B	8F23055	0.56	2.0	ND	2	06/23/08	06/24/08	
4-Methyl-2-pentanone (MIBK)	EPA 8260B	8F23055	7.0	10	ND	2	06/23/08	06/24/08	
Methylene chloride	EPA 8260B	8F23055	1.9	2.0	ND	2	06/23/08	06/24/08	
n-Propylbenzene	EPA 8260B	8F23055	0.54	2.0	ND	2	06/23/08	06/24/08	
Styrene	EPA 8260B	8F23055	0.40	2.0	ND	2	06/23/08	06/24/08	
1,1,1,2-Tetrachloroethane	EPA 8260B	8F23055	0.54	2.0	ND	2	06/23/08	06/24/08	
1,1,2,2-Tetrachloroethane	EPA 8260B	8F23055	0.60	2.0	ND	2	06/23/08	06/24/08	
Tetrachloroethene	EPA 8260B	8F23055	0.64	2.0	ND	2	06/23/08	06/24/08	
1,2,3-Trichlorobenzene	EPA 8260B	8F23055	0.60	2.0	ND	2	06/23/08	06/24/08	
1,2,4-Trichlorobenzene	EPA 8260B	8F23055	0.96	2.0	ND	2	06/23/08	06/24/08	
1,1,1-Trichloroethane	EPA 8260B	8F23055	0.60	2.0	**9.4**	2	06/23/08	06/24/08	
1,1,2-Trichloroethane	EPA 8260B	8F23055	0.60	2.0	**3.0**	2	06/23/08	06/24/08	
Trichloroethene	EPA 8260B	8F23055	0.52	2.0	**15**	2	06/23/08	06/24/08	
Trichlorofluoromethane	EPA 8260B	8F23055	0.68	4.0	ND	2	06/23/08	06/24/08	
1,2,3-Trichloropropane	EPA 8260B	8F23055	0.80	2.0	ND	2	06/23/08	06/24/08	
1,2,4-Trimethylbenzene	EPA 8260B	8F23055	0.46	2.0	ND	2	06/23/08	06/24/08	
1,3,5-Trimethylbenzene	EPA 8260B	8F23055	0.52	2.0	ND	2	06/23/08	06/24/08	
Vinyl acetate	EPA 8260B	8F23055	2.0	12	ND	2	06/23/08	06/24/08	
m,p-Xylenes	EPA 8260B	8F23055	1.2	2.0	**5.0**	2	06/23/08	06/24/08	
o-Xylene	EPA 8260B	8F23055	0.60	1.0	**1.8**	2	06/23/08	06/24/08	
Xylenes, Total	EPA 8260B	8F23055	1.8	2.0	**6.8**	2	06/23/08	06/24/08	
Di-isopropyl Ether (DIPE)	EPA 8260B	8F23055	0.50	4.0	**1.3**	2	06/23/08	06/24/08	Ja
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	8F23055	0.56	4.0	ND	2	06/23/08	06/24/08	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	8F23055	0.64	2.0	ND	2	06/23/08	06/24/08	
tert-Amyl Methyl Ether (TAME)	EPA 8260B	8F23055	0.66	4.0	ND	2	06/23/08	06/24/08	
tert-Butanol (TBA)	EPA 8260B	8F23055	13	50	ND	2	06/23/08	06/24/08	
Surrogate: 4-Bromofluorobenzene (80-120%)					*92 %*				
Surrogate: Dibromofluoromethane (80-120%)					*89 %*				
Surrogate: Toluene-d8 (80-120%)					*97 %*				

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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: IRF1437

Sampled: 06/17/08
Received: 06/17/08

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: IRF1437-06 (TB_AVO20080617_01 - Water)									
Reporting Units: ug/l									
Acetone	EPA 8260B	8F21018	4.5	10	ND	1	06/21/08	06/21/08	
Benzene	EPA 8260B	8F21018	0.28	0.50	ND	1	06/21/08	06/21/08	
Bromobenzene	EPA 8260B	8F21018	0.27	1.0	ND	1	06/21/08	06/21/08	
Bromochloromethane	EPA 8260B	8F21018	0.40	1.0	ND	1	06/21/08	06/21/08	
Bromodichloromethane	EPA 8260B	8F21018	0.30	1.0	ND	1	06/21/08	06/21/08	
Bromoform	EPA 8260B	8F21018	0.40	1.0	ND	1	06/21/08	06/21/08	
Bromomethane	EPA 8260B	8F21018	0.42	1.0	ND	1	06/21/08	06/21/08	
2-Butanone (MEK)	EPA 8260B	8F21018	4.7	5.0	ND	1	06/21/08	06/21/08	
n-Butylbenzene	EPA 8260B	8F21018	0.37	1.0	ND	1	06/21/08	06/21/08	
tert-Butylbenzene	EPA 8260B	8F21018	0.22	1.0	ND	1	06/21/08	06/21/08	
sec-Butylbenzene	EPA 8260B	8F21018	0.25	1.0	ND	1	06/21/08	06/21/08	
Carbon Disulfide	EPA 8260B	8F21018	0.48	1.0	ND	1	06/21/08	06/21/08	
Carbon tetrachloride	EPA 8260B	8F21018	0.28	0.50	ND	1	06/21/08	06/21/08	
Chlorobenzene	EPA 8260B	8F21018	0.36	1.0	ND	1	06/21/08	06/21/08	
Chloroethane	EPA 8260B	8F21018	0.40	2.0	ND	1	06/21/08	06/21/08	
Chloroform	EPA 8260B	8F21018	0.33	1.0	ND	1	06/21/08	06/21/08	
Chloromethane	EPA 8260B	8F21018	0.40	2.0	ND	1	06/21/08	06/21/08	
4-Chlorotoluene	EPA 8260B	8F21018	0.29	1.0	ND	1	06/21/08	06/21/08	
2-Chlorotoluene	EPA 8260B	8F21018	0.28	1.0	ND	1	06/21/08	06/21/08	
1,2-Dibromo-3-chloropropane	EPA 8260B	8F21018	0.97	2.0	ND	1	06/21/08	06/21/08	
Dibromochloromethane	EPA 8260B	8F21018	0.40	1.0	ND	1	06/21/08	06/21/08	
1,2-Dibromoethane (EDB)	EPA 8260B	8F21018	0.40	1.0	ND	1	06/21/08	06/21/08	
1,2-Dichlorobenzene	EPA 8260B	8F21018	0.32	1.0	ND	1	06/21/08	06/21/08	
1,3-Dichlorobenzene	EPA 8260B	8F21018	0.35	1.0	ND	1	06/21/08	06/21/08	
1,4-Dichlorobenzene	EPA 8260B	8F21018	0.37	1.0	ND	1	06/21/08	06/21/08	
Dichlorodifluoromethane	EPA 8260B	8F21018	0.26	1.0	ND	1	06/21/08	06/21/08	
1,1-Dichloroethane	EPA 8260B	8F21018	0.40	1.0	ND	1	06/21/08	06/21/08	
cis-1,2-Dichloroethene	EPA 8260B	8F21018	0.32	1.0	ND	1	06/21/08	06/21/08	
trans-1,2-Dichloroethene	EPA 8260B	8F21018	0.30	1.0	ND	1	06/21/08	06/21/08	
1,1-Dichloroethene	EPA 8260B	8F21018	0.42	1.0	ND	1	06/21/08	06/21/08	
2,2-Dichloropropane	EPA 8260B	8F21018	0.34	1.0	ND	1	06/21/08	06/21/08	
1,2-Dichloropropane	EPA 8260B	8F21018	0.35	1.0	ND	1	06/21/08	06/21/08	
cis-1,3-Dichloropropene	EPA 8260B	8F21018	0.22	0.50	ND	1	06/21/08	06/21/08	L
trans-1,3-Dichloropropene	EPA 8260B	8F21018	0.32	0.50	ND	1	06/21/08	06/21/08	
1,1-Dichloropropene	EPA 8260B	8F21018	0.28	1.0	ND	1	06/21/08	06/21/08	
Ethylbenzene	EPA 8260B	8F21018	0.25	1.0	ND	1	06/21/08	06/21/08	
1,2-Dichloroethane	EPA 8260B	8F21018	0.28	0.50	ND	1	06/21/08	06/21/08	
Hexachlorobutadiene	EPA 8260B	8F21018	0.38	1.0	ND	1	06/21/08	06/21/08	
2-Hexanone	EPA 8260B	8F21018	2.6	6.0	ND	1	06/21/08	06/21/08	
Iodomethane	EPA 8260B	8F21018	1.0	2.0	ND	1	06/21/08	06/21/08	
Isopropylbenzene	EPA 8260B	8F21018	0.25	1.0	ND	1	06/21/08	06/21/08	

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BOE-C6-0188880

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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: IRF1437

Sampled: 06/17/08
Received: 06/17/08

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: IRF1437-06 (TB_AVO20080617_01 - Water) - cont.									
Reporting Units: ug/l									
p-Isopropyltoluene	EPA 8260B	8F21018	0.28	1.0	ND	1	06/21/08	06/21/08	
4-Methyl-2-pentanone (MIBK)	EPA 8260B	8F21018	3.5	5.0	ND	1	06/21/08	06/21/08	
n-Propylbenzene	EPA 8260B	8F21018	0.27	1.0	ND	1	06/21/08	06/21/08	
Styrene	EPA 8260B	8F21018	0.20	1.0	ND	1	06/21/08	06/21/08	
1,1,1,2-Tetrachloroethane	EPA 8260B	8F21018	0.27	1.0	ND	1	06/21/08	06/21/08	
1,1,2,2-Tetrachloroethane	EPA 8260B	8F21018	0.30	1.0	ND	1	06/21/08	06/21/08	
Tetrachloroethene	EPA 8260B	8F21018	0.32	1.0	ND	1	06/21/08	06/21/08	
Tetrahydrofuran (THF)	EPA 8260B	8F21018	3.5	10	ND	1	06/21/08	06/21/08	
Toluene	EPA 8260B	8F21018	0.36	1.0	ND	1	06/21/08	06/21/08	
1,2,3-Trichlorobenzene	EPA 8260B	8F21018	0.30	1.0	ND	1	06/21/08	06/21/08	
1,2,4-Trichlorobenzene	EPA 8260B	8F21018	0.48	1.0	ND	1	06/21/08	06/21/08	
1,1,1-Trichloroethane	EPA 8260B	8F21018	0.30	1.0	ND	1	06/21/08	06/21/08	
1,1,2-Trichloroethane	EPA 8260B	8F21018	0.30	1.0	ND	1	06/21/08	06/21/08	
Trichloroethene	EPA 8260B	8F21018	0.26	1.0	ND	1	06/21/08	06/21/08	
Trichlorofluoromethane	EPA 8260B	8F21018	0.34	2.0	ND	1	06/21/08	06/21/08	
1,2,3-Trichloropropane	EPA 8260B	8F21018	0.40	1.0	ND	1	06/21/08	06/21/08	
1,2,4-Trimethylbenzene	EPA 8260B	8F21018	0.23	1.0	ND	1	06/21/08	06/21/08	
1,3,5-Trimethylbenzene	EPA 8260B	8F21018	0.26	1.0	ND	1	06/21/08	06/21/08	
Vinyl acetate	EPA 8260B	8F21018	1.0	6.0	ND	1	06/21/08	06/21/08	
Vinyl chloride	EPA 8260B	8F21018	0.40	0.50	ND	1	06/21/08	06/21/08	
m,p-Xylenes	EPA 8260B	8F21018	0.60	1.0	ND	1	06/21/08	06/21/08	
o-Xylene	EPA 8260B	8F21018	0.30	0.50	ND	1	06/21/08	06/21/08	
Xylenes, Total	EPA 8260B	8F21018	0.90	1.0	ND	1	06/21/08	06/21/08	
Di-isopropyl Ether (DIPE)	EPA 8260B	8F21018	0.25	2.0	ND	1	06/21/08	06/21/08	
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	8F21018	0.28	2.0	ND	1	06/21/08	06/21/08	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	8F21018	0.32	1.0	ND	1	06/21/08	06/21/08	
tert-Amyl Methyl Ether (TAME)	EPA 8260B	8F21018	0.33	2.0	ND	1	06/21/08	06/21/08	
tert-Butanol (TBA)	EPA 8260B	8F21018	6.5	25	ND	1	06/21/08	06/21/08	
Surrogate: 4-Bromofluorobenzene (80-120%)					*93 %*				
Surrogate: Dibromofluoromethane (80-120%)					*95 %*				
Surrogate: Toluene-d8 (80-120%)					*97 %*				

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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 (02/26/08)
1155.006
Report Number: IRF1437

Sampled: 06/17/08
Received: 06/17/08

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: IRF1437-06RE1 (TB_AVO20080617_01 - Water) - cont.									
Reporting Units: ug/l									
Methylene chloride	EPA 8260B	8F22005	0.95	1.0	ND	1	06/22/08	06/22/08	
Surrogate: 4-Bromofluorobenzene (80-120%)					*89 %*				
Surrogate: Dibromofluoromethane (80-120%)					*86 %*				
Surrogate: Toluene-d8 (80-120%)					*90 %*				

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BOE-C6-0188881

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: IRF1437

Sampled: 06/17/08
Received: 06/17/08

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

Sample ID: IRF1437-07 (EB_AVO20080617_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	8F22005	4.5	10	ND	1	06/22/08	06/22/08	
Benzene	EPA 8260B	8F22005	0.28	0.50	ND	1	06/22/08	06/22/08	
Bromobenzene	EPA 8260B	8F22005	0.27	1.0	ND	1	06/22/08	06/22/08	
Bromochloromethane	EPA 8260B	8F22005	0.40	1.0	ND	1	06/22/08	06/22/08	
Bromodichloromethane	EPA 8260B	8F22005	0.30	1.0	ND	1	06/22/08	06/22/08	
Bromoform	EPA 8260B	8F22005	0.40	1.0	ND	1	06/22/08	06/22/08	
Bromomethane	EPA 8260B	8F22005	0.42	1.0	ND	1	06/22/08	06/22/08	
2-Butanone (MEK)	EPA 8260B	8F22005	4.7	5.0	ND	1	06/22/08	06/22/08	
n-Butylbenzene	EPA 8260B	8F22005	0.37	1.0	ND	1	06/22/08	06/22/08	
tert-Butylbenzene	EPA 8260B	8F22005	0.22	1.0	ND	1	06/22/08	06/22/08	
sec-Butylbenzene	EPA 8260B	8F22005	0.25	1.0	ND	1	06/22/08	06/22/08	
Carbon Disulfide	EPA 8260B	8F22005	0.48	1.0	ND	1	06/22/08	06/22/08	
Carbon tetrachloride	EPA 8260B	8F22005	0.28	0.50	ND	1	06/22/08	06/22/08	
Chlorobenzene	EPA 8260B	8F22005	0.36	1.0	ND	1	06/22/08	06/22/08	
Chloroethane	EPA 8260B	8F22005	0.40	2.0	ND	1	06/22/08	06/22/08	
Chloroform	EPA 8260B	8F22005	0.33	1.0	**1.3**	1	06/22/08	06/22/08	
Chloromethane	EPA 8260B	8F22005	0.40	2.0	ND	1	06/22/08	06/22/08	
4-Chlorotoluene	EPA 8260B	8F22005	0.29	1.0	ND	1	06/22/08	06/22/08	
2-Chlorotoluene	EPA 8260B	8F22005	0.28	1.0	ND	1	06/22/08	06/22/08	
1,2-Dibromo-3-chloropropane	EPA 8260B	8F22005	0.97	2.0	ND	1	06/22/08	06/22/08	
Dibromochloromethane	EPA 8260B	8F22005	0.40	1.0	ND	1	06/22/08	06/22/08	
1,2-Dibromoethane (EDB)	EPA 8260B	8F22005	0.40	1.0	ND	1	06/22/08	06/22/08	
1,2-Dichlorobenzene	EPA 8260B	8F22005	0.32	1.0	ND	1	06/22/08	06/22/08	
1,3-Dichlorobenzene	EPA 8260B	8F22005	0.35	1.0	ND	1	06/22/08	06/22/08	
1,4-Dichlorobenzene	EPA 8260B	8F22005	0.37	1.0	ND	1	06/22/08	06/22/08	
Dichlorodifluoromethane	EPA 8260B	8F22005	0.26	1.0	ND	1	06/22/08	06/22/08	
1,1-Dichloroethane	EPA 8260B	8F22005	0.40	1.0	ND	1	06/22/08	06/22/08	
cis-1,2-Dichloroethene	EPA 8260B	8F22005	0.32	1.0	ND	1	06/22/08	06/22/08	
trans-1,2-Dichloroethene	EPA 8260B	8F22005	0.30	1.0	ND	1	06/22/08	06/22/08	
1,1-Dichloroethene	EPA 8260B	8F22005	0.42	1.0	ND	1	06/22/08	06/22/08	
2,2-Dichloropropane	EPA 8260B	8F22005	0.34	1.0	ND	1	06/22/08	06/22/08	
1,2-Dichloropropane	EPA 8260B	8F22005	0.35	1.0	ND	1	06/22/08	06/22/08	
cis-1,3-Dichloropropene	EPA 8260B	8F22005	0.22	0.50	ND	1	06/22/08	06/22/08	
trans-1,3-Dichloropropene	EPA 8260B	8F22005	0.32	0.50	ND	1	06/22/08	06/22/08	
1,1-Dichloropropene	EPA 8260B	8F22005	0.28	1.0	ND	1	06/22/08	06/22/08	
Ethylbenzene	EPA 8260B	8F22005	0.25	1.0	ND	1	06/22/08	06/22/08	
1,2-Dichloroethane	EPA 8260B	8F22005	0.28	0.50	ND	1	06/22/08	06/22/08	
Hexachlorobutadiene	EPA 8260B	8F22005	0.38	1.0	ND	1	06/22/08	06/22/08	
2-Hexanone	EPA 8260B	8F22005	2.6	6.0	ND	1	06/22/08	06/22/08	
Iodomethane	EPA 8260B	8F22005	1.0	2.0	ND	1	06/22/08	06/22/08	
Isopropylbenzene	EPA 8260B	8F22005	0.25	1.0	ND	1	06/22/08	06/22/08	

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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: IRF1437

Sampled: 06/17/08
Received: 06/17/08

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

Sample ID: IRF1437-07 (EB_AVO20080617_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	8F22005	0.28	1.0	ND	1	06/22/08	06/22/08	
4-Methyl-2-pentanone (MIBK)	EPA 8260B	8F22005	3.5	5.0	ND	1	06/22/08	06/22/08	
Methylene chloride	EPA 8260B	8F22005	0.95	1.0	ND	1	06/22/08	06/22/08	
n-Propylbenzene	EPA 8260B	8F22005	0.27	1.0	ND	1	06/22/08	06/22/08	
Styrene	EPA 8260B	8F22005	0.20	1.0	ND	1	06/22/08	06/22/08	
1,1,1,2-Tetrachloroethane	EPA 8260B	8F22005	0.27	1.0	ND	1	06/22/08	06/22/08	
1,1,2,2-Tetrachloroethane	EPA 8260B	8F22005	0.30	1.0	ND	1	06/22/08	06/22/08	
Tetrachloroethene	EPA 8260B	8F22005	0.32	1.0	ND	1	06/22/08	06/22/08	
Tetrahydrofuran (THF)	EPA 8260B	8F22005	3.5	10	ND	1	06/22/08	06/22/08	
Toluene	EPA 8260B	8F22005	0.36	1.0	ND	1	06/22/08	06/22/08	
1,2,3-Trichlorobenzene	EPA 8260B	8F22005	0.30	1.0	ND	1	06/22/08	06/22/08	
1,2,4-Trichlorobenzene	EPA 8260B	8F22005	0.48	1.0	ND	1	06/22/08	06/22/08	
1,1,1-Trichloroethane	EPA 8260B	8F22005	0.30	1.0	ND	1	06/22/08	06/22/08	
1,1,2-Trichloroethane	EPA 8260B	8F22005	0.30	1.0	ND	1	06/22/08	06/22/08	
Trichloroethene	EPA 8260B	8F22005	0.26	1.0	ND	1	06/22/08	06/22/08	
Trichlorofluoromethane	EPA 8260B	8F22005	0.34	2.0	ND	1	06/22/08	06/22/08	
1,2,3-Trichloropropane	EPA 8260B	8F22005	0.40	1.0	ND	1	06/22/08	06/22/08	
1,2,4-Trimethylbenzene	EPA 8260B	8F22005	0.23	1.0	ND	1	06/22/08	06/22/08	
1,3,5-Trimethylbenzene	EPA 8260B	8F22005	0.26	1.0	ND	1	06/22/08	06/22/08	
Vinyl acetate	EPA 8260B	8F22005	1.0	6.0	ND	1	06/22/08	06/22/08	
Vinyl chloride	EPA 8260B	8F22005	0.40	0.50	ND	1	06/22/08	06/22/08	
m,p-Xylenes	EPA 8260B	8F22005	0.60	1.0	ND	1	06/22/08	06/22/08	
o-Xylene	EPA 8260B	8F22005	0.30	0.50	ND	1	06/22/08	06/22/08	
Xylenes, Total	EPA 8260B	8F22005	0.90	1.0	ND	1	06/22/08	06/22/08	
Di-isopropyl Ether (DIPE)	EPA 8260B	8F22005	0.25	2.0	ND	1	06/22/08	06/22/08	
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	8F22005	0.28	2.0	ND	1	06/22/08	06/22/08	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	8F22005	0.32	1.0	ND	1	06/22/08	06/22/08	
tert-Amyl Methyl Ether (TAME)	EPA 8260B	8F22005	0.33	2.0	ND	1	06/22/08	06/22/08	
tert-Butanol (TBA)	EPA 8260B	8F22005	6.5	25	ND	1	06/22/08	06/22/08	
Surrogate: 4-Bromofluorobenzene (80-120%)					*90 %*				
Surrogate: Dibromofluoromethane (80-120%)					*87 %*				
Surrogate: Toluene-d8 (80-120%)					*88 %*				

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BOE-C6-0188882

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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: IRF1437

Sampled: 06/17/08
Received: 06/17/08

INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRF1437-01 (WCC_12S_WG20080617_01 - Water)									
Reporting Units: mg/l									
Alkalinity as CaCO3	EPA 310.1	8F18054	2.0	2.0	**190**	1	06/18/08	06/18/08	
Chloride	EPA 300.0	8F17053	10	20	**250**	40	06/17/08	06/18/08	
Nitrate-NO3	EPA 300.0	8F18058	0.25	0.50	**20**	1	06/18/08	06/18/08	
Nitrite-NO2	EPA 300.0	8F17053	0.30	0.50	ND	1	06/17/08	06/18/08	C
Sulfate	EPA 300.0	8F17053	8.0	20	**440**	40	06/17/08	06/18/08	
Total Dissolved Solids	SM2540C	8F20051	10	10	**1200**	1	06/20/08	06/20/08	
Sample ID: IRF1437-02 (AW0066UB_WG20080617_01 - Water)									
Reporting Units: mg/l									
Alkalinity as CaCO3	EPA 310.1	8F18054	2.0	2.0	ND	1	06/18/08	06/18/08	
Chloride	EPA 300.0	8F17053	10	20	**620**	40	06/17/08	06/18/08	
Nitrate-NO3	EPA 300.0	8F18058	0.50	1.0	**1.1**	2	06/18/08	06/18/08	
Nitrite-NO2	EPA 300.0	8F18058	6.0	10	ND	20	06/18/08	06/18/08	RL1
Sulfate	EPA 300.0	8F17053	0.20	0.50	**31**	1	06/17/08	06/18/08	
Sample ID: IRF1437-03 (TMW_07_WG20080617_01 - Water)									
Reporting Units: mg/l									
Alkalinity as CaCO3	EPA 310.1	8F18054	2.0	2.0	**350**	1	06/18/08	06/18/08	
Chloride	EPA 300.0	8F17053	10	20	**240**	40	06/17/08	06/18/08	
Nitrate-NO3	EPA 300.0	8F18058	0.50	1.0	**47**	2	06/18/08	06/18/08	
Nitrite-NO2	EPA 300.0	8F17053	0.30	0.50	ND	1	06/17/08	06/18/08	C
Sulfate	EPA 300.0	8F17053	8.0	20	**120**	40	06/17/08	06/18/08	
Total Dissolved Solids	SM2540C	8F20051	10	10	**930**	1	06/20/08	06/20/08	
Sample ID: IRF1437-04 (AW0067UB_WG20080617_01 - Water)									
Reporting Units: mg/l									
Alkalinity as CaCO3	EPA 310.1	8F18054	2.0	2.0	ND	1	06/18/08	06/18/08	
Chloride	EPA 300.0	8F17053	10	20	**530**	40	06/17/08	06/18/08	
Nitrate-NO3	EPA 300.0	8F17053	10	20	ND	40	06/17/08	06/18/08	C, RL1
Nitrite-NO2	EPA 300.0	8F18058	6.0	10	ND	20	06/18/08	06/18/08	RL1
Sulfate	EPA 300.0	8F17053	8.0	20	**21**	40	06/17/08	06/18/08	
Sample ID: IRF1437-05 (AW0073C_WG20080617_01 - Water)									
Reporting Units: mg/l									
Alkalinity as CaCO3	EPA 310.1	8F18054	2.0	2.0	**200**	1	06/18/08	06/18/08	
Chloride	EPA 300.0	8F17053	10	20	**130**	40	06/17/08	06/18/08	
Nitrate-NO3	EPA 300.0	8F18058	0.25	0.50	**0.68**	1	06/18/08	06/18/08	
Nitrite-NO2	EPA 300.0	8F17053	0.30	0.50	ND	1	06/17/08	06/18/08	C
Sulfate	EPA 300.0	8F17053	0.20	0.50	**17**	1	06/17/08	06/18/08	

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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: IRF1437

Sampled: 06/17/08
Received: 06/17/08

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: IRF1437-01 (WCC_12S_WG20080617_01 - Water)									
Reporting Units: mg/l									
Total Organic Carbon	EPA 9060A MOD.	8F18125	0.50	1.0	**3.0**	1	06/18/08	06/18/08	
Sample ID: IRF1437-02 (AW0066UB_WG20080617_01 - Water)									
Reporting Units: mg/l									
Total Organic Carbon	EPA 9060A MOD.	8F19093	50	100	**2400**	100	06/19/08	06/19/08	
Sample ID: IRF1437-03 (TMW_07_WG20080617_01 - Water)									
Reporting Units: mg/l									
Total Organic Carbon	EPA 9060A MOD.	8F19093	0.50	1.0	**1.6**	1	06/19/08	06/19/08	A-01
Sample ID: IRF1437-04 (AW0067UB_WG20080617_01 - Water)									
Reporting Units: mg/l									
Total Organic Carbon	EPA 9060A MOD.	8F19093	50	100	**1200**	100	06/19/08	06/19/08	
Sample ID: IRF1437-05 (AW0073C_WG20080617_01 - Water)									
Reporting Units: mg/l									
Total Organic Carbon	EPA 9060A MOD.	8F19093	0.50	1.0	**4.1**	1	06/19/08	06/19/08	

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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: IRF1437

Sampled: 06/17/08
Received: 06/17/08

Volatile Fatty Acids by Ion Chromatography

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRF1437-01 (WCC_12S_WG20080617_01 - Water)									
Reporting Units: mg/L									
Acetic Acid	AM23G Acetic Acid	M080626010	0.04	0.07	**0.09**	1	06/26/08	07/08/08	M
Butyric Acid	AM23G Butyric Acid	M080626010	0.06	0.07	ND	1	06/26/08	07/08/08	U, M
Hexanoic Acid	AM23G Hexanoic Acid	M080626010	0.08	0.1	ND	1	06/26/08	07/08/08	U, M
i-Hexanoic Acid	AM23G i-Hexanoic Acid	M080626010	0.08	0.1	ND	1	06/26/08	07/08/08	U
i-Pentanoic Acid	AM23G i-Pentanoic Acid	M080626010	0.07	0.07	ND	1	06/26/08	07/08/08	U, M
Lactic Acid and HIBA	23G Lactic Acid and H	M080626010	0.07	0.1	**0.31**	1	06/26/08	07/08/08	M
Pentanoic Acid	AM23G Pentanoic Acid	M080626010	0.07	0.07	ND	1	06/26/08	07/08/08	U
Propionic Acid	AM23G Propionic Acid	M080626010	0.05	0.07	ND	1	06/26/08	07/08/08	U, M
Pyruvic Acid	AM23G Pyruvic Acid	M080626010	0.07	0.07	ND	1	06/26/08	07/08/08	U, M
Sample ID: IRF1437-02 (AW0066UB_WG20080617_01 - Water)									
Reporting Units: mg/L									
Acetic Acid	AM23G Acetic Acid	M080709037	41	70	**1400**	1000	07/07/08	07/08/08	
Butyric Acid	AM23G Butyric Acid	M080709036	5.9	7	**220**	100	07/07/08	07/08/08	
Hexanoic Acid	AM23G Hexanoic Acid	M080626010	0.08	0.1	**7.6**	1	06/26/08	07/04/08	M
i-Hexanoic Acid	AM23G i-Hexanoic Acid	M080626010	0.08	0.1	ND	1	06/26/08	07/04/08	U
i-Pentanoic Acid	AM23G i-Pentanoic Acid	M080709033	0.7	0.7	**12**	10	07/07/08	07/08/08	
Lactic Acid and HIBA	23G Lactic Acid and H	M080709037	67	100	**1700**	1000	07/07/08	07/08/08	
Pentanoic Acid	AM23G Pentanoic Acid	M080709033	0.7	0.7	**31**	10	07/07/08	07/08/08	
Propionic Acid	AM23G Propionic Acid	M080709036	5.2	7	**710**	100	07/07/08	07/08/08	
Pyruvic Acid	AM23G Pyruvic Acid	M080709033	0.67	0.7	**34**	10	07/07/08	07/08/08	
Sample ID: IRF1437-03 (TMW_07_WG20080617_01 - Water)									
Reporting Units: mg/L									
Acetic Acid	AM23G Acetic Acid	M080626010	0.04	0.07	**0.11**	1	06/26/08	07/08/08	M
Butyric Acid	AM23G Butyric Acid	M080626010	0.06	0.07	ND	1	06/26/08	07/08/08	U, M
Hexanoic Acid	AM23G Hexanoic Acid	M080626010	0.08	0.1	ND	1	06/26/08	07/08/08	U, M
i-Hexanoic Acid	AM23G i-Hexanoic Acid	M080626010	0.08	0.1	ND	1	06/26/08	07/08/08	U
i-Pentanoic Acid	AM23G i-Pentanoic Acid	M080626010	0.07	0.07	ND	1	06/26/08	07/08/08	U, M
Lactic Acid and HIBA	23G Lactic Acid and H	M080626010	0.07	0.1	**0.37**	1	06/26/08	07/08/08	M
Pentanoic Acid	AM23G Pentanoic Acid	M080626010	0.07	0.07	ND	1	06/26/08	07/08/08	U
Propionic Acid	AM23G Propionic Acid	M080626010	0.05	0.07	ND	1	06/26/08	07/08/08	U, M
Pyruvic Acid	AM23G Pyruvic Acid	M080626010	0.07	0.07	**0.34**	1	06/26/08	07/08/08	M

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Attention: Michael Rendina

Project ID: Boeing C-6 Torrance (02/26/08)
1155.006
Report Number: IRF1437

Sampled: 06/17/08
Received: 06/17/08

Volatile Fatty Acids by Ion Chromatography

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRF1437-04 (AW0067UB_WG20080617_01 - Water)									
Reporting Units: mg/L									
Acetic Acid	AM23G Acetic Acid	M080709036	4.1	7	**470**	100	07/07/08	07/09/08	
Butyric Acid	AM23G Butyric Acid	M080709036	5.9	7	**130**	100	07/07/08	07/09/08	
Hexanoic Acid	AM23G Hexanoic Acid	M080626010	0.08	0.1	**6.2**	1	06/26/08	07/08/08	M
i-Hexanoic Acid	AM23G i-Hexanoic Acid	M080626010	0.08	0.1	ND	1	06/26/08	07/08/08	U
i-Pentanoic Acid	AM23G i-Pentanoic Acid	M080709033	0.7	0.7	**4.2**	10	07/07/08	07/08/08	
Lactic Acid and HIBA	23G Lactic Acid and H	M080709037	67	100	**1200**	1000	07/07/08	07/09/08	
Pentanoic Acid	AM23G Pentanoic Acid	M080709033	0.7	0.7	**11**	10	07/07/08	07/08/08	
Propionic Acid	AM23G Propionic Acid	M080709036	5.2	7	**100**	100	07/07/08	07/09/08	
Pyruvic Acid	AM23G Pyruvic Acid	M080709033	0.67	0.7	**12**	10	07/07/08	07/08/08	
Sample ID: IRF1437-05 (AW0073C_WG20080617_01 - Water)									
Reporting Units: mg/L									
Acetic Acid	AM23G Acetic Acid	M080626010	0.04	0.07	**2.1**	1	06/26/08	07/08/08	M
Butyric Acid	AM23G Butyric Acid	M080626010	0.06	0.07	ND	1	06/26/08	07/08/08	U, M
Hexanoic Acid	AM23G Hexanoic Acid	M080626010	0.08	0.1	ND	1	06/26/08	07/08/08	U, M
i-Hexanoic Acid	AM23G i-Hexanoic Acid	M080626010	0.08	0.1	ND	1	06/26/08	07/08/08	U
i-Pentanoic Acid	AM23G i-Pentanoic Acid	M080626010	0.07	0.07	ND	1	06/26/08	07/08/08	U, M
Lactic Acid and HIBA	23G Lactic Acid and H	M080626010	0.07	0.1	**0.43**	1	06/26/08	07/08/08	M
Pentanoic Acid	AM23G Pentanoic Acid	M080626010	0.07	0.07	ND	1	06/26/08	07/08/08	U
Propionic Acid	AM23G Propionic Acid	M080626010	0.05	0.07	ND	1	06/26/08	07/08/08	U, M
Pyruvic Acid	AM23G Pyruvic Acid	M080626010	0.07	0.07	ND	1	06/26/08	07/08/08	U, M

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BOE-C6-0188884

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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: IRF1437

Sampled: 06/17/08
Received: 06/17/08

RSK175 Dissolved Gases in Water

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRF1437-01 (WCC_12S_WG20080617_01 - Water)									
Reporting Units: ug/L									
Methane	RSK-175	080623GC8A	0.39	1.0	**0.98**	1	06/23/08	06/23/08	J, B
Ethane	RSK-175	080623GC8A	0.50	1.0	ND	1	06/23/08	06/23/08	
Ethylene	RSK-175	080623GC8A	0.33	1.0	ND	1	06/23/08	06/23/08	
Sample ID: IRF1437-02 (AW0066UB_WG20080617_01 - Water)									
Reporting Units: ug/L									
Methane	RSK-175	080623GC8A	0.39	1.0	**2700**	1	06/23/08	06/23/08	
Ethane	RSK-175	080623GC8A	0.50	1.0	ND	1	06/23/08	06/23/08	
Ethylene	RSK-175	080623GC8A	0.33	1.0	**4.2**	1	06/23/08	06/23/08	
Sample ID: IRF1437-03 (TMW_07_WG20080617_01 - Water)									
Reporting Units: ug/L									
Methane	RSK-175	080623GC8A	0.39	1.0	**0.46**	1	06/23/08	06/23/08	J, B
Ethane	RSK-175	080623GC8A	0.50	1.0	ND	1	06/23/08	06/23/08	
Ethylene	RSK-175	080623GC8A	0.33	1.0	ND	1	06/23/08	06/23/08	
Sample ID: IRF1437-04 (AW0067UB_WG20080617_01 - Water)									
Reporting Units: ug/L									
Methane	RSK-175	080623GC8A	0.39	1.0	**8800**	1	06/23/08	06/23/08	
Ethane	RSK-175	080623GC8A	0.50	1.0	ND	1	06/23/08	06/23/08	
Ethylene	RSK-175	080623GC8A	0.33	1.0	**4.9**	1	06/23/08	06/23/08	
Sample ID: IRF1437-05 (AW0073C_WG20080617_01 - Water)									
Reporting Units: ug/L									
Methane	RSK-175	080623GC8A	0.39	1.0	**560**	1	06/23/08	06/23/08	
Ethane	RSK-175	080623GC8A	0.50	1.0	ND	1	06/23/08	06/23/08	
Ethylene	RSK-175	080623GC8A	0.33	1.0	**4.3**	1	06/23/08	06/23/08	

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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: IRF1437

Sampled: 06/17/08
Received: 06/17/08

Nested qPCR TaqMan assay

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRF1437-01 (WCC_12S_WG20080617_01 - Water)									**ND**
Reporting Units: NONE									
16s rRNA DHC sp.	sted qPCR TaqMan ass	1	N/A	NA	**negative**	1	06/18/08	06/24/08	
Sample ID: IRF1437-03 (TMW_07_WG20080617_01 - Water)									**ND**
Reporting Units: NONE									
16s rRNA DHC sp.	sted qPCR TaqMan ass	1	N/A	NA	**negative**	1	06/18/08	06/24/08	

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BOE-C6-0188885

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: IRF1437

Sampled: 06/17/08
Received: 06/17/08

qPCR TaqMan assay

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRF1437-01 (WCC_12S_WG20080617_01 - Water)									**ND**
Reporting Units: gene copies/L ground									
16s rRNA DHC sp.	qPCR TaqMan assay	1	2	50	ND	1	06/18/08	06/23/08	
bvcA	qPCR TaqMan assay	1	2	50	ND	1	06/18/08	06/24/08	
tceA	qPCR TaqMan assay	1	2	50	ND	1	06/18/08	06/24/08	
vcrA	qPCR TaqMan assay	1	2	50	ND	1	06/18/08	06/24/08	
Sample ID: IRF1437-02 (AW0066UB_WG20080617_01 - Water)									
Reporting Units: gene copies/L ground									
16s rRNA DHC sp.	qPCR TaqMan assay	1	2	50	**9.71E+06**	23.698	06/18/08	06/23/08	
bvcA	qPCR TaqMan assay	1	2	50	**1.37E+06**	23.698	06/18/08	06/24/08	
tceA	qPCR TaqMan assay	1	2	50	**2.25E+06**	23.698	06/18/08	06/24/08	
vcrA	qPCR TaqMan assay	1	2	50	ND	23.698	06/18/08	06/24/08	
Sample ID: IRF1437-03 (TMW_07_WG20080617_01 - Water)									**BRL**
Reporting Units: gene copies/L ground									
16s rRNA DHC sp.	qPCR TaqMan assay	1	2	50	ND	1	06/18/08	06/23/08	
bvcA	qPCR TaqMan assay	1	2	50	**6.47E+01**	1	06/18/08	06/24/08	
tceA	qPCR TaqMan assay	1	2	50	ND	1	06/18/08	06/24/08	
vcrA	qPCR TaqMan assay	1	2	50	ND	1	06/18/08	06/24/08	
Sample ID: IRF1437-04 (AW0067UB_WG20080617_01 - Water)									
Reporting Units: gene copies/L ground									
16s rRNA DHC sp.	qPCR TaqMan assay	1	2	50	**1.35E+07**	18.074	06/18/08	06/23/08	
bvcA	qPCR TaqMan assay	1	2	50	**1.60E+06**	18.074	06/18/08	06/24/08	
tceA	qPCR TaqMan assay	1	2	50	**1.32E+06**	18.074	06/18/08	06/24/08	
vcrA	qPCR TaqMan assay	1	2	50	ND	18.074	06/18/08	06/24/08	
Sample ID: IRF1437-05 (AW0073C_WG20080617_01 - Water)									
Reporting Units: gene copies/L ground									
16s rRNA DHC sp.	qPCR TaqMan assay	1	2	50	**3.01E+08**	5.678	06/18/08	06/23/08	
bvcA	qPCR TaqMan assay	1	2	50	**4.98E+07**	5.678	06/18/08	06/24/08	
tceA	qPCR TaqMan assay	1	2	50	**6.46E+07**	5.678	06/18/08	06/24/08	
vcrA	qPCR TaqMan assay	1	2	50	ND	5.678	06/18/08	06/24/08	

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Attention: Michael Rendina

Project ID: Boeing C-6 Torrance (02/26/08)
1155.006
Report Number: IRF1437

Sampled: 06/17/08
Received: 06/17/08

Universal Bacterial PCR

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRF1437-01 (WCC_12S_WG20080617_01 - Water)									
Reporting Units: NONE									
16s rRNA	Jniversal Bacterial PCR	1	N/A	NA	**Positive**	1	06/18/08	06/23/08	
Sample ID: IRF1437-02 (AW0066UB_WG20080617_01 - Water)									
Reporting Units: NONE									
16s rRNA	Jniversal Bacterial PCR	1	N/A	NA	**Positive**	23.698	06/18/08	06/23/08	
Sample ID: IRF1437-03 (TMW_07_WG20080617_01 - Water)									
Reporting Units: NONE									
16s rRNA	Jniversal Bacterial PCR	1	N/A	NA	**Positive**	1	06/18/08	06/23/08	
Sample ID: IRF1437-04 (AW0067UB_WG20080617_01 - Water)									
Reporting Units: NONE									
16s rRNA	Jniversal Bacterial PCR	1	N/A	NA	**Positive**	18.074	06/18/08	06/23/08	
Sample ID: IRF1437-05 (AW0073C_WG20080617_01 - Water)									
Reporting Units: NONE									
16s rRNA	Jniversal Bacterial PCR	1	N/A	NA	**Positive**	5.678	06/18/08	06/23/08	

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BOE-C6-0188886

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: IRF1437

Sampled: 06/17/08
Received: 06/17/08

SHORT HOLD TIME DETAIL REPORT

	Hold Time (in days)	Date/Time Sampled	Date/Time Received	Date/Time Extracted	Date/Time Analyzed
Sample ID: WCC_12S_WG20080617_01 (IRF1437-01) - Water					
EPA 300.0	2	06/17/2008 07:58	06/17/2008 14:43	06/18/2008 13:00	06/18/2008 16:45
Nitrite-NO2				06/17/2008 22:00	06/18/2008 04:03
Sample ID: AW0066UB_WG20080617_01 (IRF1437-02) - Water					
EPA 300.0	2	06/17/2008 11:05	06/17/2008 14:43	06/18/2008 13:00	06/18/2008 16:57
Nitrite-NO2				06/18/2008 13:00	06/18/2008 17:08
Sample ID: TMW_07_WG20080617_01 (IRF1437-03) - Water					
EPA 300.0	2	06/17/2008 13:47	06/17/2008 14:43	06/18/2008 13:00	06/18/2008 17:20
Nitrite-NO2				06/17/2008 22:00	06/18/2008 05:02
Sample ID: AW0067UB_WG20080617_01 (IRF1437-04) - Water					
EPA 300.0	2	06/17/2008 12:25	06/17/2008 14:43	06/17/2008 22:00	06/18/2008 05:32
Nitrite-NO2				06/18/2008 13:00	06/18/2008 17:32
Sample ID: AW0073C_WG20080617_01 (IRF1437-05) - Water					
EPA 300.0	2	06/17/2008 09:33	06/17/2008 14:43	06/18/2008 13:00	06/18/2008 18:11

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Project ID: Boeing C-6 Torrance (02/26/08)
1155.006
Report Number: IRF1437

Sampled: 06/17/08
Received: 06/17/08

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: 8F21018 Extracted: 06/21/08											
Blank Analyzed: 06/21/2008 (8F21018-BLK1)											
Acetone	ND	10	4.5	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							
2-Butanone (MEK)	ND	5.0	4.7	ug/l							
n-Butylbenzene	ND	1.0	0.37	ug/l							
tert-Butylbenzene	ND	1.0	0.22	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							
4-Chlorotoluene	ND	1.0	0.29	ug/l							
2-Chlorotoluene	ND	1.0	0.28	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							
1,2-Dichlorobenzene	ND	1.0	0.32	ug/l							
1,3-Dichlorobenzene	ND	1.0	0.35	ug/l							
1,4-Dichlorobenzene	ND	1.0	0.37	ug/l							
Dichlorodifluoromethane	ND	1.0	0.26	ug/l							
1,1-Dichloroethane	ND	1.0	0.40	ug/l							
cis-1,2-Dichloroethene	ND	1.0	0.32	ug/l							
trans-1,2-Dichloroethene	ND	1.0	0.30	ug/l							
1,1-Dichloroethene	ND	1.0	0.42	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							
trans-1,3-Dichloropropene	ND	0.50	0.32	ug/l							
1,1-Dichloropropene	ND	1.0	0.28	ug/l							

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BOE-C6-0188887

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: IRF1437

Sampled: 06/17/08
Received: 06/17/08

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: 8F21018 Extracted: 06/21/08											
Blank Analyzed: 06/21/2008 (8F21018-BLK1)											
Ethylbenzene	ND	1.0	0.25	ug/l							
1,2-Dichloroethane	ND	0.50	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							
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							
1,2,4-Trimethylbenzene	ND	1.0	0.23	ug/l							
1,3,5-Trimethylbenzene	ND	1.0	0.26	ug/l							
Vinyl acetate	ND	6.0	1.0	ug/l							
Vinyl chloride	ND	0.50	0.40	ug/l							
m,p-Xylenes	ND	1.0	0.60	ug/l							
o-Xylene	ND	0.50	0.30	ug/l							
Xylenes, Total	ND	1.0	0.90	ug/l							
Di-isopropyl Ether (DIPE)	ND	2.0	0.25	ug/l							
Ethyl tert-Butyl Ether (ETBE)	ND	2.0	0.28	ug/l							
Methyl-tert-butyl Ether (MTBE)	ND	1.0	0.32	ug/l							
tert-Amyl Methyl Ether (TAME)	ND	2.0	0.33	ug/l							
tert-Butanol (TBA)	ND	25	6.5	ug/l							
Surrogate: 4-Bromofluorobenzene	*24.7*			*ug/l*	*25.0*		*99*	*80-120*			

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Project ID: Boeing C-6 Torrance (02/26/08)
1155.006
Report Number: IRF1437

Sampled: 06/17/08
Received: 06/17/08

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: 8F21018 Extracted: 06/21/08											
Blank Analyzed: 06/21/2008 (8F21018-BLK1)											
Surrogate: Dibromofluoromethane	*23.4*			*ug/l*	*25.0*		*94*	*80-120*			
Surrogate: Toluene-d8	*24.1*			*ug/l*	*25.0*		*96*	*80-120*			
LCS Analyzed: 06/21/2008 (8F21018-BS1)											
Acetone	18.8	10	4.5	ug/l	25.0		75	30-140			
Benzene	24.8	0.50	0.28	ug/l	25.0		99	70-120			
Bromobenzene	26.4	1.0	0.27	ug/l	25.0		105	75-120			
Bromochloromethane	25.5	1.0	0.40	ug/l	25.0		102	70-130			
Bromodichloromethane	27.8	1.0	0.30	ug/l	25.0		111	70-135			
Bromoform	24.8	1.0	0.40	ug/l	25.0		99	55-130			
Bromomethane	25.7	1.0	0.42	ug/l	25.0		103	65-140			
2-Butanone (MEK)	21.1	5.0	4.7	ug/l	25.0		84	40-140			
n-Butylbenzene	28.1	1.0	0.37	ug/l	25.0		113	70-130			
tert-Butylbenzene	27.9	1.0	0.22	ug/l	25.0		111	70-125			
sec-Butylbenzene	27.5	1.0	0.25	ug/l	25.0		110	70-125			
Carbon Disulfide	22.5	1.0	0.48	ug/l	25.0		90	50-130			
Carbon tetrachloride	32.6	0.50	0.28	ug/l	25.0		130	65-140			
Chlorobenzene	26.0	1.0	0.36	ug/l	25.0		104	75-120			
Chloroethane	25.9	2.0	0.40	ug/l	25.0		104	60-140			
Chloroform	24.0	1.0	0.33	ug/l	25.0		96	70-130			
Chloromethane	23.6	2.0	0.40	ug/l	25.0		94	50-140			
4-Chlorotoluene	26.9	1.0	0.29	ug/l	25.0		108	75-125			
2-Chlorotoluene	26.0	1.0	0.28	ug/l	25.0		104	70-125			
1,2-Dibromo-3-chloropropane	26.7	2.0	0.97	ug/l	25.0		107	50-135			
Dibromochloromethane	25.8	1.0	0.40	ug/l	25.0		103	70-140			
1,2-Dibromoethane (EDB)	24.7	1.0	0.40	ug/l	25.0		99	75-125			
1,2-Dichlorobenzene	27.3	1.0	0.32	ug/l	25.0		109	75-120			
1,3-Dichlorobenzene	26.8	1.0	0.35	ug/l	25.0		107	75-120			
1,4-Dichlorobenzene	25.9	1.0	0.37	ug/l	25.0		104	75-120			
Dichlorodifluoromethane	27.5	1.0	0.26	ug/l	25.0		110	35-155			
1,1-Dichloroethane	24.7	1.0	0.40	ug/l	25.0		99	70-125			
cis-1,2-Dichloroethene	23.7	1.0	0.32	ug/l	25.0		95	70-125			
trans-1,2-Dichloroethene	22.3	1.0	0.30	ug/l	25.0		89	70-125			
1,1-Dichloroethene	26.4	1.0	0.42	ug/l	25.0		106	70-125			
2,2-Dichloropropane	29.5	1.0	0.34	ug/l	25.0		118	65-140			
1,2-Dichloropropane	23.9	1.0	0.35	ug/l	25.0		96	70-125			

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Project Manager

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BOE-C6-0188888

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: IRF1437

Sampled: 06/17/08
Received: 06/17/08

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: 8F21018 Extracted: 06/21/08											
LCS Analyzed: 06/21/2008 (8F21018-BS1)											
cis-1,3-Dichloropropene	32.7	0.50	0.22	ug/l	25.0		131	75-125			*L*
trans-1,3-Dichloropropene	26.7	0.50	0.32	ug/l	25.0		107	70-125			
1,1-Dichloropropene	28.1	1.0	0.28	ug/l	25.0		112	75-130			
Ethylbenzene	26.9	1.0	0.25	ug/l	25.0		108	75-125			
1,2-Dichloroethane	26.7	0.50	0.28	ug/l	25.0		107	60-140			
Hexachlorobutadiene	28.8	1.0	0.38	ug/l	25.0		115	65-135			
2-Hexanone	19.7	6.0	2.6	ug/l	25.0		79	45-140			
Isopropylbenzene	26.7	1.0	0.25	ug/l	25.0		107	75-130			
p-Isopropyltoluene	28.2	1.0	0.28	ug/l	25.0		113	75-125			
4-Methyl-2-pentanone (MIBK)	20.7	5.0	3.5	ug/l	25.0		83	45-140			
n-Propylbenzene	26.8	1.0	0.27	ug/l	25.0		107	75-130			
Styrene	26.9	1.0	0.20	ug/l	25.0		107	75-130			
1,1,1,2-Tetrachloroethane	30.1	1.0	0.27	ug/l	25.0		121	70-130			
1,1,2,2-Tetrachloroethane	24.9	1.0	0.30	ug/l	25.0		100	55-130			
Tetrachloroethene	26.2	1.0	0.32	ug/l	25.0		105	70-125			
Toluene	25.4	1.0	0.36	ug/l	25.0		102	70-120			
1,2,3-Trichlorobenzene	29.1	1.0	0.30	ug/l	25.0		117	65-125			
1,2,4-Trichlorobenzene	30.1	1.0	0.48	ug/l	25.0		120	70-135			
1,1,1-Trichloroethane	27.9	1.0	0.30	ug/l	25.0		112	65-135			
1,1,2-Trichloroethane	24.9	1.0	0.30	ug/l	25.0		100	70-125			
Trichloroethene	27.3	1.0	0.26	ug/l	25.0		109	70-125			
Trichlorofluoromethane	26.0	2.0	0.34	ug/l	25.0		104	65-145			
1,2,3-Trichloropropane	25.0	1.0	0.40	ug/l	25.0		100	60-130			
1,2,4-Trimethylbenzene	28.4	1.0	0.23	ug/l	25.0		113	75-125			
1,3,5-Trimethylbenzene	27.7	1.0	0.26	ug/l	25.0		111	75-125			
Vinyl acetate	25.4	6.0	1.0	ug/l	25.0		102	45-145			
Vinyl chloride	27.6	0.50	0.40	ug/l	25.0		110	55-135			
m,p-Xylenes	53.2	1.0	0.60	ug/l	50.0		106	75-125			
o-Xylene	26.4	0.50	0.30	ug/l	25.0		106	75-125			
Di-isopropyl Ether (DIPE)	22.9	2.0	0.25	ug/l	25.0		92	60-135			
Ethyl tert-Butyl Ether (ETBE)	23.8	2.0	0.28	ug/l	25.0		95	65-135			
Methyl-tert-butyl Ether (MTBE)	23.9	1.0	0.32	ug/l	25.0		96	60-135			
tert-Amyl Methyl Ether (TAME)	23.7	2.0	0.33	ug/l	25.0		95	60-135			
tert-Butanol (TBA)	134	25	6.5	ug/l	125		107	70-135			
Surrogate: 4-Bromofluorobenzene	*23.6*			*ug/l*	*25.0*		*94*	*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: IRF1437

Sampled: 06/17/08
Received: 06/17/08

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: 8F21018 Extracted: 06/21/08											
LCS Analyzed: 06/21/2008 (8F21018-BS1)											
Surrogate: Dibromofluoromethane	*23.3*			*ug/l*	*25.0*		*93*	*80-120*			
Surrogate: Toluene-d8	*24.0*			*ug/l*	*25.0*		*96*	*80-120*			
Matrix Spike Analyzed: 06/21/2008 (8F21018-MS1)						**Source: IRF1437-01**					
Acetone	19.4	10	4.5	ug/l	25.0	ND	78	20-150			
Benzene	23.7	0.50	0.28	ug/l	25.0	ND	95	65-125			
Bromobenzene	26.2	1.0	0.27	ug/l	25.0	ND	105	70-125			
Bromochloromethane	25.1	1.0	0.40	ug/l	25.0	ND	100	65-135			
Bromodichloromethane	28.8	1.0	0.30	ug/l	25.0	ND	115	70-135			
Bromoform	25.4	1.0	0.40	ug/l	25.0	ND	102	55-135			
Bromomethane	18.3	1.0	0.42	ug/l	25.0	ND	73	55-145			
2-Butanone (MEK)	21.9	5.0	4.7	ug/l	25.0	ND	88	30-145			
n-Butylbenzene	27.5	1.0	0.37	ug/l	25.0	ND	110	65-135			
tert-Butylbenzene	27.6	1.0	0.22	ug/l	25.0	ND	110	65-130			
sec-Butylbenzene	27.2	1.0	0.25	ug/l	25.0	ND	109	70-125			
Carbon Disulfide	16.9	1.0	0.48	ug/l	25.0	ND	68	40-140			
Carbon tetrachloride	30.8	0.50	0.28	ug/l	25.0	ND	123	65-140			
Chlorobenzene	25.5	1.0	0.36	ug/l	25.0	ND	102	75-125			
Chloroethane	20.0	2.0	0.40	ug/l	25.0	ND	80	55-140			
Chloroform	25.8	1.0	0.33	ug/l	25.0	2.23	94	65-135			
Chloromethane	11.0	2.0	0.40	ug/l	25.0	ND	44	45-145			*M2*
4-Chlorotoluene	26.5	1.0	0.29	ug/l	25.0	ND	106	70-135			
2-Chlorotoluene	25.8	1.0	0.28	ug/l	25.0	ND	103	65-135			
1,2-Dibromo-3-chloropropane	29.3	2.0	0.97	ug/l	25.0	ND	117	45-145			
Dibromochloromethane	26.2	1.0	0.40	ug/l	25.0	ND	105	65-140			
1,2-Dibromoethane (EDB)	25.3	1.0	0.40	ug/l	25.0	ND	101	70-130			
1,2-Dichlorobenzene	27.7	1.0	0.32	ug/l	25.0	ND	111	75-125			
1,3-Dichlorobenzene	26.7	1.0	0.35	ug/l	25.0	ND	107	75-125			
1,4-Dichlorobenzene	25.8	1.0	0.37	ug/l	25.0	ND	103	75-125			
Dichlorodifluoromethane	6.92	1.0	0.26	ug/l	25.0	ND	28	25-155			
1,1-Dichloroethane	28.6	1.0	0.40	ug/l	25.0	5.40	93	65-130			
cis-1,2-Dichloroethene	23.1	1.0	0.32	ug/l	25.0	ND	92	65-130			
trans-1,2-Dichloroethene	20.4	1.0	0.30	ug/l	25.0	ND	82	65-130			
1,1-Dichloroethene	27.2	1.0	0.42	ug/l	25.0	4.81	90	60-130			
2,2-Dichloropropane	28.0	1.0	0.34	ug/l	25.0	ND	112	60-145			
1,2-Dichloropropane	23.8	1.0	0.35	ug/l	25.0	ND	95	65-130			

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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: IRF1437

Sampled: 06/17/08
Received: 06/17/08

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: 8F21018 Extracted: 06/21/08											
Matrix Spike Analyzed: 06/21/2008 (8F21018-MS1)						**Source: IRF1437-01**					
cis-1,3-Dichloropropene	32.5	0.50	0.22	ug/l	25.0	ND	130	70-130			
trans-1,3-Dichloropropene	27.0	0.50	0.32	ug/l	25.0	ND	108	65-135			
1,1-Dichloropropene	26.5	1.0	0.28	ug/l	25.0	ND	106	70-135			
Ethylbenzene	26.1	1.0	0.25	ug/l	25.0	ND	104	65-130			
1,2-Dichloroethane	27.1	0.50	0.28	ug/l	25.0	ND	109	60-140			
Hexachlorobutadiene	27.9	1.0	0.38	ug/l	25.0	ND	112	60-135			
2-Hexanone	22.1	6.0	2.6	ug/l	25.0	ND	88	25-140			
Isopropylbenzene	26.1	1.0	0.25	ug/l	25.0	ND	105	70-135			
p-Isopropyltoluene	27.4	1.0	0.28	ug/l	25.0	ND	110	65-130			
4-Methyl-2-pentanone (MIBK)	23.1	5.0	3.5	ug/l	25.0	ND	92	40-140			
n-Propylbenzene	26.3	1.0	0.27	ug/l	25.0	ND	105	70-135			
Styrene	19.7	1.0	0.20	ug/l	25.0	ND	79	50-145			
1,1,1,2-Tetrachloroethane	29.5	1.0	0.27	ug/l	25.0	ND	118	65-140			
1,1,2,2-Tetrachloroethane	27.1	1.0	0.30	ug/l	25.0	ND	108	55-135			
Tetrachloroethene	25.1	1.0	0.32	ug/l	25.0	0.400	99	65-130			
Toluene	25.1	1.0	0.36	ug/l	25.0	ND	100	70-125			
1,2,3-Trichlorobenzene	29.3	1.0	0.30	ug/l	25.0	ND	117	60-135			
1,2,4-Trichlorobenzene	29.9	1.0	0.48	ug/l	25.0	ND	120	65-135			
1,1,1-Trichloroethane	26.9	1.0	0.30	ug/l	25.0	ND	108	65-140			
1,1,2-Trichloroethane	26.7	1.0	0.30	ug/l	25.0	ND	107	65-130			
Trichloroethene	67.8	1.0	0.26	ug/l	25.0	44.0	95	65-125			
Trichlorofluoromethane	21.6	2.0	0.34	ug/l	25.0	ND	86	60-145			
1,2,3-Trichloropropane	26.7	1.0	0.40	ug/l	25.0	ND	107	55-135			
1,2,4-Trimethylbenzene	25.7	1.0	0.23	ug/l	25.0	ND	103	55-135			
1,3,5-Trimethylbenzene	26.7	1.0	0.26	ug/l	25.0	ND	107	70-130			
Vinyl acetate	24.6	6.0	1.0	ug/l	25.0	ND	99	40-150			
Vinyl chloride	16.7	0.50	0.40	ug/l	25.0	ND	67	45-140			
m,p-Xylenes	51.4	1.0	0.60	ug/l	50.0	ND	103	65-130			
o-Xylene	25.8	0.50	0.30	ug/l	25.0	ND	103	65-125			
Di-isopropyl Ether (DIPE)	22.6	2.0	0.25	ug/l	25.0	ND	90	60-140			
Ethyl tert-Butyl Ether (ETBE)	23.9	2.0	0.28	ug/l	25.0	ND	95	60-135			
Methyl-tert-butyl Ether (MTBE)	24.4	1.0	0.32	ug/l	25.0	ND	97	55-145			
tert-Amyl Methyl Ether (TAME)	24.1	2.0	0.33	ug/l	25.0	ND	96	60-140			
tert-Butanol (TBA)	136	25	6.5	ug/l	125	ND	109	65-140			
Surrogate: 4-Bromofluorobenzene	*23.6*			*ug/l*	*25.0*		*94*	*80-120*			

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Project Manager

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Attention: Michael Rendina

Project ID: Boeing C-6 Torrance (02/26/08)
1155.006
Report Number: IRF1437

Sampled: 06/17/08
Received: 06/17/08

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: 8F21018 Extracted: 06/21/08											
Matrix Spike Analyzed: 06/21/2008 (8F21018-MS1)						**Source: IRF1437-01**					
Surrogate: Dibromofluoromethane	*23.3*			*ug/l*	*25.0*		*93*	*80-120*			
Surrogate: Toluene-d8	*24.4*			*ug/l*	*25.0*		*97*	*80-120*			
Matrix Spike Dup Analyzed: 06/21/2008 (8F21018-MSD1)						**Source: IRF1437-01**					
Acetone	16.5	10	4.5	ug/l	25.0	ND	66	20-150	16	35	
Benzene	22.4	0.50	0.28	ug/l	25.0	ND	90	65-125	5	20	
Bromobenzene	24.8	1.0	0.27	ug/l	25.0	ND	99	70-125	5	20	
Bromochloromethane	23.6	1.0	0.40	ug/l	25.0	ND	95	65-135	6	25	
Bromodichloromethane	26.7	1.0	0.30	ug/l	25.0	ND	107	70-135	8	20	
Bromoform	23.4	1.0	0.40	ug/l	25.0	ND	94	55-135	8	25	
Bromomethane	18.1	1.0	0.42	ug/l	25.0	ND	73	55-145	1	25	
2-Butanone (MEK)	18.9	5.0	4.7	ug/l	25.0	ND	76	30-145	15	40	
n-Butylbenzene	26.5	1.0	0.37	ug/l	25.0	ND	106	65-135	4	20	
tert-Butylbenzene	26.3	1.0	0.22	ug/l	25.0	ND	105	65-130	5	20	
sec-Butylbenzene	26.0	1.0	0.25	ug/l	25.0	ND	104	70-125	5	20	
Carbon Disulfide	16.3	1.0	0.48	ug/l	25.0	ND	65	40-140	4	20	
Carbon tetrachloride	28.9	0.50	0.28	ug/l	25.0	ND	116	65-140	6	25	
Chlorobenzene	24.2	1.0	0.36	ug/l	25.0	ND	97	75-125	5	20	
Chloroethane	20.0	2.0	0.40	ug/l	25.0	ND	80	55-140	0	25	
Chloroform	24.3	1.0	0.33	ug/l	25.0	2.23	88	65-135	6	20	
Chloromethane	11.5	2.0	0.40	ug/l	25.0	ND	46	45-145	4	25	
4-Chlorotoluene	25.5	1.0	0.29	ug/l	25.0	ND	102	70-135	4	20	
2-Chlorotoluene	24.8	1.0	0.28	ug/l	25.0	ND	99	65-135	4	20	
1,2-Dibromo-3-chloropropane	25.5	2.0	0.97	ug/l	25.0	ND	102	45-145	14	30	
Dibromochloromethane	24.4	1.0	0.40	ug/l	25.0	ND	98	65-140	7	25	
1,2-Dibromoethane (EDB)	23.2	1.0	0.40	ug/l	25.0	ND	93	70-130	8	25	
1,2-Dichlorobenzene	25.8	1.0	0.32	ug/l	25.0	ND	103	75-125	7	20	
1,3-Dichlorobenzene	25.5	1.0	0.35	ug/l	25.0	ND	102	75-125	5	20	
1,4-Dichlorobenzene	24.2	1.0	0.37	ug/l	25.0	ND	97	75-125	7	20	
Dichlorodifluoromethane	6.68	1.0	0.26	ug/l	25.0	ND	27	25-155	4	30	
1,1-Dichloroethane	27.4	1.0	0.40	ug/l	25.0	5.40	88	65-130	4	20	
cis-1,2-Dichloroethene	22.0	1.0	0.32	ug/l	25.0	ND	88	65-130	5	20	
trans-1,2-Dichloroethene	19.5	1.0	0.30	ug/l	25.0	ND	78	65-130	5	20	
1,1-Dichloroethene	26.8	1.0	0.42	ug/l	25.0	4.81	88	60-130	2	20	
2,2-Dichloropropane	26.7	1.0	0.34	ug/l	25.0	ND	107	60-145	5	25	
1,2-Dichloropropane	22.4	1.0	0.35	ug/l	25.0	ND	90	65-130	6	20	

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Project ID: Boeing C-6 Torrance (02/26/08)
1155.006
Report Number: IRF1437

Sampled: 06/17/08
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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: 8F21018 Extracted: 06/21/08											
Matrix Spike Dup Analyzed: 06/21/2008 (8F21018-MSD1)						**Source: IRF1437-01**					
cis-1,3-Dichloropropene	30.2	0.50	0.22	ug/l	25.0	ND	121	70-130	7	20	
trans-1,3-Dichloropropene	24.6	0.50	0.32	ug/l	25.0	ND	98	65-135	10	25	
1,1-Dichloropropene	24.8	1.0	0.28	ug/l	25.0	ND	99	70-135	7	20	
Ethylbenzene	25.1	1.0	0.25	ug/l	25.0	ND	100	65-130	4	20	
1,2-Dichloroethane	24.4	0.50	0.28	ug/l	25.0	ND	98	60-140	10	20	
Hexachlorobutadiene	27.3	1.0	0.38	ug/l	25.0	ND	109	60-135	2	20	
2-Hexanone	18.8	6.0	2.6	ug/l	25.0	ND	75	25-140	16	35	
Isopropylbenzene	25.2	1.0	0.25	ug/l	25.0	ND	101	70-135	4	20	
p-Isopropyltoluene	26.4	1.0	0.28	ug/l	25.0	ND	106	65-130	4	20	
4-Methyl-2-pentanone (MIBK)	19.5	5.0	3.5	ug/l	25.0	ND	78	40-140	17	35	
n-Propylbenzene	25.3	1.0	0.27	ug/l	25.0	ND	101	70-135	4	20	
Styrene	21.2	1.0	0.20	ug/l	25.0	ND	85	50-145	7	30	
1,1,1,2-Tetrachloroethane	27.8	1.0	0.27	ug/l	25.0	ND	111	65-140	6	20	
1,1,2,2-Tetrachloroethane	24.3	1.0	0.30	ug/l	25.0	ND	97	55-135	11	30	
Tetrachloroethene	24.5	1.0	0.32	ug/l	25.0	0.400	96	65-130	3	20	
Toluene	23.4	1.0	0.36	ug/l	25.0	ND	94	70-125	7	20	
1,2,3-Trichlorobenzene	27.3	1.0	0.30	ug/l	25.0	ND	109	60-135	7	20	
1,2,4-Trichlorobenzene	28.4	1.0	0.48	ug/l	25.0	ND	113	65-135	5	20	
1,1,1-Trichloroethane	25.5	1.0	0.30	ug/l	25.0	ND	102	65-140	5	20	
1,1,2-Trichloroethane	24.2	1.0	0.30	ug/l	25.0	ND	97	65-130	10	25	
Trichloroethene	65.9	1.0	0.26	ug/l	25.0	44.0	88	65-125	3	20	
Trichlorofluoromethane	20.2	2.0	0.34	ug/l	25.0	ND	81	60-145	7	25	
1,2,3-Trichloropropane	23.7	1.0	0.40	ug/l	25.0	ND	95	55-135	12	30	
1,2,4-Trimethylbenzene	26.2	1.0	0.23	ug/l	25.0	ND	105	55-135	2	25	
1,3,5-Trimethylbenzene	25.8	1.0	0.26	ug/l	25.0	ND	103	70-130	4	20	
Vinyl acetate	21.6	6.0	1.0	ug/l	25.0	ND	86	40-150	13	30	
Vinyl chloride	16.5	0.50	0.40	ug/l	25.0	ND	66	45-140	1	30	
m,p-Xylenes	49.3	1.0	0.60	ug/l	50.0	ND	99	65-130	4	25	
o-Xylene	24.6	0.50	0.30	ug/l	25.0	ND	98	65-125	5	20	
Di-isopropyl Ether (DIPE)	21.1	2.0	0.25	ug/l	25.0	ND	84	60-140	7	25	
Ethyl tert-Butyl Ether (ETBE)	22.1	2.0	0.28	ug/l	25.0	ND	88	60-135	8	25	
Methyl-tert-butyl Ether (MTBE)	21.9	1.0	0.32	ug/l	25.0	ND	88	55-145	10	25	
tert-Amyl Methyl Ether (TAME)	22.4	2.0	0.33	ug/l	25.0	ND	89	60-140	8	30	
tert-Butanol (TBA)	130	25	6.5	ug/l	125	ND	104	65-140	4	25	
Surrogate: 4-Bromofluorobenzene	*23.4*			*ug/l*	*25.0*		*93*	*80-120*			

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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: IRF1437

Sampled: 06/17/08
Received: 06/17/08

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: 8F21018 Extracted: 06/21/08											
Matrix Spike Dup Analyzed: 06/21/2008 (8F21018-MSD1)						**Source: IRF1437-01**					
Surrogate: Dibromofluoromethane	*23.4*			*ug/l*	*25.0*		*94*	*80-120*			
Surrogate: Toluene-d8	*24.3*			*ug/l*	*25.0*		*97*	*80-120*			
Batch: 8F22005 Extracted: 06/22/08											
Blank Analyzed: 06/22/2008 (8F22005-BLK1)											
Acetone	ND	10	4.5	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							
2-Butanone (MEK)	ND	5.0	4.7	ug/l							
n-Butylbenzene	ND	1.0	0.37	ug/l							
tert-Butylbenzene	ND	1.0	0.22	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							
4-Chlorotoluene	ND	1.0	0.29	ug/l							
2-Chlorotoluene	ND	1.0	0.28	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							
1,2-Dichlorobenzene	ND	1.0	0.32	ug/l							
1,3-Dichlorobenzene	ND	1.0	0.35	ug/l							
1,4-Dichlorobenzene	ND	1.0	0.37	ug/l							
Dichlorodifluoromethane	ND	1.0	0.26	ug/l							
1,1-Dichloroethane	ND	1.0	0.40	ug/l							
cis-1,2-Dichloroethene	ND	1.0	0.32	ug/l							
trans-1,2-Dichloroethene	ND	1.0	0.30	ug/l							
1,1-Dichloroethene	ND	1.0	0.42	ug/l							

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Received: 06/17/08

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: 8F22005 Extracted: 06/22/08											
Blank Analyzed: 06/22/2008 (8F22005-BLK1)											
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							
trans-1,3-Dichloropropene	ND	0.50	0.32	ug/l							
1,1-Dichloropropene	ND	1.0	0.28	ug/l							
Ethylbenzene	ND	1.0	0.25	ug/l							
1,2-Dichloroethane	ND	0.50	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							
4-Methyl-2-pentanone (MIBK)	ND	5.0	3.5	ug/l							
Methylene chloride	ND	1.0	0.95	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							
1,2,4-Trimethylbenzene	ND	1.0	0.23	ug/l							
1,3,5-Trimethylbenzene	ND	1.0	0.26	ug/l							
Vinyl acetate	ND	6.0	1.0	ug/l							
Vinyl chloride	ND	0.50	0.40	ug/l							
m,p-Xylenes	ND	1.0	0.60	ug/l							
o-Xylene	ND	0.50	0.30	ug/l							
Xylenes, Total	ND	1.0	0.90	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: 8F22005 Extracted: 06/22/08											
Blank Analyzed: 06/22/2008 (8F22005-BLK1)											
Di-isopropyl Ether (DIPE)	ND	2.0	0.25	ug/l							
Ethyl tert-Butyl Ether (ETBE)	ND	2.0	0.28	ug/l							
Methyl-tert-butyl Ether (MTBE)	ND	1.0	0.32	ug/l							
tert-Amyl Methyl Ether (TAME)	ND	2.0	0.33	ug/l							
tert-Butanol (TBA)	ND	25	6.5	ug/l							
Surrogate: 4-Bromofluorobenzene	*22.4*			*ug/l*	*25.0*		*90*	*80-120*			
Surrogate: Dibromofluoromethane	*21.6*			*ug/l*	*25.0*		*87*	*80-120*			
Surrogate: Toluene-d8	*22.4*			*ug/l*	*25.0*		*90*	*80-120*			
LCS Analyzed: 06/22/2008 (8F22005-BS1)											
Acetone	23.8	10	4.5	ug/l	25.0		95	30-140			
Benzene	25.5	0.50	0.28	ug/l	25.0		102	70-120			
Bromobenzene	27.7	1.0	0.27	ug/l	25.0		111	75-120			
Bromochloromethane	26.0	1.0	0.40	ug/l	25.0		104	70-130			
Bromodichloromethane	27.2	1.0	0.30	ug/l	25.0		109	70-135			
Bromoform	24.3	1.0	0.40	ug/l	25.0		97	55-130			
Bromomethane	26.7	1.0	0.42	ug/l	25.0		107	65-140			
2-Butanone (MEK)	24.8	5.0	4.7	ug/l	25.0		99	40-140			
n-Butylbenzene	28.0	1.0	0.37	ug/l	25.0		112	70-130			
tert-Butylbenzene	27.6	1.0	0.22	ug/l	25.0		110	70-125			
sec-Butylbenzene	28.0	1.0	0.25	ug/l	25.0		112	70-125			
Carbon Disulfide	24.1	1.0	0.48	ug/l	25.0		97	50-130			
Carbon tetrachloride	28.1	0.50	0.28	ug/l	25.0		112	65-140			
Chlorobenzene	25.6	1.0	0.36	ug/l	25.0		102	75-120			
Chloroethane	27.1	2.0	0.40	ug/l	25.0		109	60-140			
Chloroform	24.7	1.0	0.33	ug/l	25.0		99	70-130			
Chloromethane	25.6	2.0	0.40	ug/l	25.0		102	50-140			
4-Chlorotoluene	27.6	1.0	0.29	ug/l	25.0		110	75-125			
2-Chlorotoluene	27.3	1.0	0.28	ug/l	25.0		109	70-125			
1,2-Dibromo-3-chloropropane	26.9	2.0	0.97	ug/l	25.0		108	50-135			
Dibromochloromethane	29.0	1.0	0.40	ug/l	25.0		116	70-140			
1,2-Dibromoethane (EDB)	27.6	1.0	0.40	ug/l	25.0		110	75-125			
1,2-Dichlorobenzene	26.9	1.0	0.32	ug/l	25.0		107	75-120			
1,3-Dichlorobenzene	27.0	1.0	0.35	ug/l	25.0		108	75-120			
1,4-Dichlorobenzene	25.6	1.0	0.37	ug/l	25.0		102	75-120			
Dichlorodifluoromethane	28.7	1.0	0.26	ug/l	25.0		115	35-155			

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Attention: Michael Rendina

Project ID: Boeing C-6 Torrance (02/26/08)
1155.006
Report Number: IRF1437

Sampled: 06/17/08
Received: 06/17/08

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: 8F22005 Extracted: 06/22/08											
LCS Analyzed: 06/22/2008 (8F22005-BS1)											
1,1-Dichloroethane	25.3	1.0	0.40	ug/l	25.0		101	70-125			
cis-1,2-Dichloroethene	24.3	1.0	0.32	ug/l	25.0		97	70-125			
trans-1,2-Dichloroethene	22.1	1.0	0.30	ug/l	25.0		88	70-125			
1,1-Dichloroethene	24.5	1.0	0.42	ug/l	25.0		98	70-125			
2,2-Dichloropropane	28.4	1.0	0.34	ug/l	25.0		114	65-140			
1,2-Dichloropropane	25.9	1.0	0.35	ug/l	25.0		103	70-125			
cis-1,3-Dichloropropene	32.4	0.50	0.22	ug/l	25.0		130	75-125			L
trans-1,3-Dichloropropene	26.5	0.50	0.32	ug/l	25.0		106	70-125			
1,1-Dichloropropene	28.3	1.0	0.28	ug/l	25.0		113	75-130			
Ethylbenzene	26.9	1.0	0.25	ug/l	25.0		108	75-125			
1,2-Dichloroethane	27.1	0.50	0.28	ug/l	25.0		108	60-140			
Hexachlorobutadiene	25.4	1.0	0.38	ug/l	25.0		102	65-135			
2-Hexanone	25.1	6.0	2.6	ug/l	25.0		101	45-140			
Isopropylbenzene	29.0	1.0	0.25	ug/l	25.0		116	75-130			
p-Isopropyltoluene	28.3	1.0	0.28	ug/l	25.0		113	75-125			
4-Methyl-2-pentanone (MIBK)	26.0	5.0	3.5	ug/l	25.0		104	45-140			
Methylene chloride	24.6	1.0	0.95	ug/l	25.0		98	55-130			
n-Propylbenzene	28.2	1.0	0.27	ug/l	25.0		113	75-130			
Styrene	27.0	1.0	0.20	ug/l	25.0		108	75-130			
1,1,1,2-Tetrachloroethane	27.5	1.0	0.27	ug/l	25.0		110	70-130			
1,1,2,2-Tetrachloroethane	29.4	1.0	0.30	ug/l	25.0		118	55-130			
Tetrachloroethene	26.7	1.0	0.32	ug/l	25.0		107	70-125			
Toluene	26.1	1.0	0.36	ug/l	25.0		104	70-120			
1,2,3-Trichlorobenzene	25.5	1.0	0.30	ug/l	25.0		102	65-125			
1,2,4-Trichlorobenzene	27.1	1.0	0.48	ug/l	25.0		108	70-135			
1,1,1-Trichloroethane	26.2	1.0	0.30	ug/l	25.0		105	65-135			
1,1,2-Trichloroethane	27.3	1.0	0.30	ug/l	25.0		109	70-125			
Trichloroethene	27.2	1.0	0.26	ug/l	25.0		109	70-125			
Trichlorofluoromethane	27.2	2.0	0.34	ug/l	25.0		109	65-145			
1,2,3-Trichloropropane	28.2	1.0	0.40	ug/l	25.0		113	60-130			
1,2,4-Trimethylbenzene	28.7	1.0	0.23	ug/l	25.0		115	75-125			
1,3,5-Trimethylbenzene	28.5	1.0	0.26	ug/l	25.0		114	75-125			
Vinyl acetate	28.0	6.0	1.0	ug/l	25.0		112	45-145			
Vinyl chloride	27.9	0.50	0.40	ug/l	25.0		112	55-135			
m,p-Xylenes	53.5	1.0	0.60	ug/l	50.0		107	75-125			

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1155.006
Report Number: IRF1437

Sampled: 06/17/08
Received: 06/17/08

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: 8F22005 Extracted: 06/22/08											
LCS Analyzed: 06/22/2008 (8F22005-BS1)											
o-Xylene	26.7	0.50	0.30	ug/l	25.0		107	75-125			
Di-isopropyl Ether (DIPE)	25.1	2.0	0.25	ug/l	25.0		100	60-135			
Ethyl tert-Butyl Ether (ETBE)	25.7	2.0	0.28	ug/l	25.0		103	65-135			
Methyl-tert-butyl Ether (MTBE)	25.7	1.0	0.32	ug/l	25.0		103	60-135			
tert-Amyl Methyl Ether (TAME)	25.8	2.0	0.33	ug/l	25.0		103	60-135			
tert-Butanol (TBA)	133	25	6.5	ug/l	125		107	70-135			
Surrogate: 4-Bromofluorobenzene	*22.2*			*ug/l*	*25.0*		*89*	*80-120*			
Surrogate: Dibromofluoromethane	*22.0*			*ug/l*	*25.0*		*88*	*80-120*			
Surrogate: Toluene-d8	*22.5*			*ug/l*	*25.0*		*90*	*80-120*			
Matrix Spike Analyzed: 06/22/2008 (8F22005-MS1)						**Source: IRF1437-01RE1**					
Acetone	20.1	10	4.5	ug/l	25.0	ND	80	20-150			
Benzene	24.5	0.50	0.28	ug/l	25.0	ND	98	65-125			
Bromobenzene	26.7	1.0	0.27	ug/l	25.0	ND	107	70-125			
Bromochloromethane	25.0	1.0	0.40	ug/l	25.0	ND	100	65-135			
Bromodichloromethane	27.2	1.0	0.30	ug/l	25.0	ND	109	70-135			
Bromoform	23.3	1.0	0.40	ug/l	25.0	ND	93	55-135			
Bromomethane	24.1	1.0	0.42	ug/l	25.0	ND	96	55-145			
2-Butanone (MEK)	23.4	5.0	4.7	ug/l	25.0	ND	94	30-145			
n-Butylbenzene	27.0	1.0	0.37	ug/l	25.0	ND	108	65-135			
tert-Butylbenzene	26.6	1.0	0.22	ug/l	25.0	ND	107	65-130			
sec-Butylbenzene	26.9	1.0	0.25	ug/l	25.0	ND	108	70-125			
Carbon Disulfide	23.4	1.0	0.48	ug/l	25.0	ND	93	40-140			
Carbon tetrachloride	27.6	0.50	0.28	ug/l	25.0	ND	111	65-140			
Chlorobenzene	25.4	1.0	0.36	ug/l	25.0	ND	101	75-125			
Chloroethane	25.2	2.0	0.40	ug/l	25.0	ND	101	55-140			
Chloroform	26.2	1.0	0.33	ug/l	25.0	2.25	96	65-135			
Chloromethane	20.9	2.0	0.40	ug/l	25.0	ND	84	45-145			
4-Chlorotoluene	26.9	1.0	0.29	ug/l	25.0	ND	108	70-135			
2-Chlorotoluene	26.1	1.0	0.28	ug/l	25.0	ND	104	65-135			
1,2-Dibromo-3-chloropropane	23.2	2.0	0.97	ug/l	25.0	ND	93	45-145			
Dibromochloromethane	28.1	1.0	0.40	ug/l	25.0	ND	112	65-140			
1,2-Dibromoethane (EDB)	26.4	1.0	0.40	ug/l	25.0	ND	106	70-130			
1,2-Dichlorobenzene	26.2	1.0	0.32	ug/l	25.0	ND	105	75-125			
1,3-Dichlorobenzene	26.3	1.0	0.35	ug/l	25.0	ND	105	75-125			
1,4-Dichlorobenzene	24.9	1.0	0.37	ug/l	25.0	ND	99	75-125			

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BOE-C6-0188893

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: IRF1437

Sampled: 06/17/08
Received: 06/17/08

METHOD BLANK/QC DATA

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

Batch: 8F22005 Extracted: 06/22/08

Matrix Spike Analyzed: 06/22/2008 (8F22005-MS1) — Source: IRF1437-01RE1

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Dichlorodifluoromethane	18.7	1.0	0.26	ug/l	25.0	ND	75	25-155			
1,1-Dichloroethane	29.3	1.0	0.40	ug/l	25.0	5.51	95	65-130			
cis-1,2-Dichloroethene	23.7	1.0	0.32	ug/l	25.0	ND	95	65-130			
trans-1,2-Dichloroethene	21.3	1.0	0.30	ug/l	25.0	ND	85	65-130			
1,1-Dichloroethene	25.5	1.0	0.42	ug/l	25.0	3.37	89	60-130			
2,2-Dichloropropane	28.1	1.0	0.34	ug/l	25.0	ND	113	60-145			
1,2-Dichloropropane	25.1	1.0	0.35	ug/l	25.0	ND	100	65-130			
cis-1,3-Dichloropropene	31.2	0.50	0.22	ug/l	25.0	ND	125	70-130			
trans-1,3-Dichloropropene	25.4	0.50	0.32	ug/l	25.0	ND	102	65-135			
1,1-Dichloropropene	27.2	1.0	0.28	ug/l	25.0	ND	109	70-135			
Ethylbenzene	26.7	1.0	0.25	ug/l	25.0	ND	107	65-130			
1,2-Dichloroethane	26.6	0.50	0.28	ug/l	25.0	ND	107	60-140			
Hexachlorobutadiene	24.9	1.0	0.38	ug/l	25.0	ND	99	60-135			
2-Hexanone	22.8	6.0	2.6	ug/l	25.0	ND	91	25-140			
Isopropylbenzene	27.4	1.0	0.25	ug/l	25.0	ND	110	70-135			
p-Isopropyltoluene	27.3	1.0	0.28	ug/l	25.0	ND	109	65-130			
4-Methyl-2-pentanone (MIBK)	24.0	5.0	3.5	ug/l	25.0	ND	96	40-140			
Methylene chloride	23.7	1.0	0.95	ug/l	25.0	ND	95	50-135			
n-Propylbenzene	27.2	1.0	0.27	ug/l	25.0	ND	109	70-135			
Styrene	22.4	1.0	0.20	ug/l	25.0	ND	89	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	26.4	1.0	0.30	ug/l	25.0	ND	106	55-135			
Tetrachloroethene	26.5	1.0	0.32	ug/l	25.0	0.350	105	65-130			
Toluene	25.5	1.0	0.36	ug/l	25.0	ND	102	70-125			
1,2,3-Trichlorobenzene	25.4	1.0	0.30	ug/l	25.0	ND	102	60-135			
1,2,4-Trichlorobenzene	27.0	1.0	0.48	ug/l	25.0	ND	108	65-135			
1,1,1-Trichloroethane	26.2	1.0	0.30	ug/l	25.0	ND	105	65-140			
1,1,2-Trichloroethane	26.3	1.0	0.30	ug/l	25.0	ND	105	65-130			
Trichloroethene	62.2	1.0	0.26	ug/l	25.0	44.8	70	65-125			
Trichlorofluoromethane	25.5	2.0	0.34	ug/l	25.0	ND	102	60-145			
1,2,3-Trichloropropane	25.8	1.0	0.40	ug/l	25.0	ND	103	55-135			
1,2,4-Trimethylbenzene	27.6	1.0	0.23	ug/l	25.0	ND	111	55-135			
1,3,5-Trimethylbenzene	27.4	1.0	0.26	ug/l	25.0	ND	109	70-130			
Vinyl acetate	23.6	6.0	1.0	ug/l	25.0	ND	94	40-150			
Vinyl chloride	24.4	0.50	0.40	ug/l	25.0	ND	98	45-140			

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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)
1155.006
Report Number: IRF1437

Sampled: 06/17/08
Received: 06/17/08

METHOD BLANK/QC DATA

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

Batch: 8F22005 Extracted: 06/22/08

Matrix Spike Analyzed: 06/22/2008 (8F22005-MS1) — Source: IRF1437-01RE1

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
m,p-Xylenes	53.1	1.0	0.60	ug/l	50.0	ND	106	65-130			
o-Xylene	26.6	0.50	0.30	ug/l	25.0	ND	106	65-125			
Di-isopropyl Ether (DIPE)	25.6	2.0	0.25	ug/l	25.0	ND	102	60-140			
Ethyl tert-Butyl Ether (ETBE)	26.1	2.0	0.28	ug/l	25.0	ND	104	60-135			
Methyl-tert-butyl Ether (MTBE)	25.2	1.0	0.32	ug/l	25.0	ND	101	55-145			
tert-Amyl Methyl Ether (TAME)	26.3	2.0	0.33	ug/l	25.0	ND	105	60-140			
tert-Butanol (TBA)	144	25	6.5	ug/l	125	ND	115	65-140			
Surrogate: 4-Bromofluorobenzene	*22.9*			*ug/l*	*25.0*		*92*	*80-120*			
Surrogate: Dibromofluoromethane	*22.7*			*ug/l*	*25.0*		*91*	*80-120*			
Surrogate: Toluene-d8	*22.5*			*ug/l*	*25.0*		*90*	*80-120*			

Matrix Spike Dup Analyzed: 06/22/2008 (8F22005-MSD1) — Source: IRF1437-01RE1

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Acetone	20.2	10	4.5	ug/l	25.0	ND	81	20-150	1	35	
Benzene	24.1	0.50	0.28	ug/l	25.0	ND	96	65-125	2	20	
Bromobenzene	26.2	1.0	0.27	ug/l	25.0	ND	105	70-125	2	20	
Bromochloromethane	25.1	1.0	0.40	ug/l	25.0	ND	100	65-135	0	25	
Bromodichloromethane	26.5	1.0	0.30	ug/l	25.0	ND	106	70-135	2	20	
Bromoform	22.8	1.0	0.40	ug/l	25.0	ND	91	55-135	2	25	
Bromomethane	23.3	1.0	0.42	ug/l	25.0	ND	93	55-145	4	25	
2-Butanone (MEK)	24.9	5.0	4.7	ug/l	25.0	ND	100	30-145	6	40	
n-Butylbenzene	26.7	1.0	0.37	ug/l	25.0	ND	107	65-135	1	20	
tert-Butylbenzene	26.1	1.0	0.22	ug/l	25.0	ND	105	65-130	2	20	
sec-Butylbenzene	26.5	1.0	0.25	ug/l	25.0	ND	106	70-125	2	20	
Carbon Disulfide	23.0	1.0	0.48	ug/l	25.0	ND	92	40-140	2	20	
Carbon tetrachloride	26.6	0.50	0.28	ug/l	25.0	ND	107	65-140	4	25	
Chlorobenzene	24.8	1.0	0.36	ug/l	25.0	ND	99	75-125	2	20	
Chloroethane	24.2	2.0	0.40	ug/l	25.0	ND	97	55-140	4	25	
Chloroform	25.8	1.0	0.33	ug/l	25.0	2.25	94	65-135	1	20	
Chloromethane	20.3	2.0	0.40	ug/l	25.0	ND	81	45-145	3	25	
4-Chlorotoluene	26.5	1.0	0.29	ug/l	25.0	ND	106	70-135	2	20	
2-Chlorotoluene	25.8	1.0	0.28	ug/l	25.0	ND	103	65-135	1	20	
1,2-Dibromo-3-chloropropane	25.3	2.0	0.97	ug/l	25.0	ND	101	45-145	9	30	
Dibromochloromethane	27.4	1.0	0.40	ug/l	25.0	ND	110	65-140	3	25	
1,2-Dibromoethane (EDB)	26.3	1.0	0.40	ug/l	25.0	ND	105	70-130	0	25	
1,2-Dichlorobenzene	26.2	1.0	0.32	ug/l	25.0	ND	105	75-125	0	20	
1,3-Dichlorobenzene	26.0	1.0	0.35	ug/l	25.0	ND	104	75-125	1	20	

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BOE-C6-0188894

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: IRF1437

Sampled: 06/17/08
Received: 06/17/08

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: 8F22005 Extracted: 06/22/08											
Matrix Spike Dup Analyzed: 06/22/2008 (8F22005-MSD1)						**Source: IRF1437-01RE1**					
1,4-Dichlorobenzene	24.8	1.0	0.37	ug/l	25.0	ND	99	75-125	0	20	
Dichlorodifluoromethane	17.8	1.0	0.26	ug/l	25.0	ND	71	25-155	5	30	
1,1-Dichloroethane	29.0	1.0	0.40	ug/l	25.0	5.51	94	65-130	1	20	
cis-1,2-Dichloroethene	23.4	1.0	0.32	ug/l	25.0	ND	94	65-130	1	20	
trans-1,2-Dichloroethene	21.1	1.0	0.30	ug/l	25.0	ND	84	65-130	1	20	
1,1-Dichloroethene	25.7	1.0	0.42	ug/l	25.0	3.37	89	60-130	1	20	
2,2-Dichloropropane	26.7	1.0	0.34	ug/l	25.0	ND	107	60-145	5	25	
1,2-Dichloropropane	25.0	1.0	0.35	ug/l	25.0	ND	100	65-130	0	20	
cis-1,3-Dichloropropene	31.3	0.50	0.22	ug/l	25.0	ND	125	70-130	0	20	
trans-1,3-Dichloropropene	25.0	0.50	0.32	ug/l	25.0	ND	100	65-135	1	25	
1,1-Dichloropropene	26.5	1.0	0.28	ug/l	25.0	ND	106	70-135	3	20	
Ethylbenzene	25.8	1.0	0.25	ug/l	25.0	ND	103	65-130	4	20	
1,2-Dichloroethane	26.0	0.50	0.28	ug/l	25.0	ND	104	60-140	2	20	
Hexachlorobutadiene	25.7	1.0	0.38	ug/l	25.0	ND	103	60-135	3	20	
2-Hexanone	23.9	6.0	2.6	ug/l	25.0	ND	96	25-140	5	35	
Isopropylbenzene	27.0	1.0	0.25	ug/l	25.0	ND	108	70-135	2	20	
p-Isopropyltoluene	26.9	1.0	0.28	ug/l	25.0	ND	108	65-130	1	20	
4-Methyl-2-pentanone (MIBK)	24.9	5.0	3.5	ug/l	25.0	ND	100	40-140	4	35	
Methylene chloride	23.2	1.0	0.95	ug/l	25.0	ND	93	50-135	2	20	
n-Propylbenzene	26.6	1.0	0.27	ug/l	25.0	ND	106	70-135	2	20	
Styrene	21.0	1.0	0.20	ug/l	25.0	ND	84	50-145	6	30	
1,1,1,2-Tetrachloroethane	26.3	1.0	0.27	ug/l	25.0	ND	105	65-140	3	20	
1,1,2,2-Tetrachloroethane	27.3	1.0	0.30	ug/l	25.0	ND	109	55-135	3	30	
Tetrachloroethene	25.3	1.0	0.32	ug/l	25.0	0.350	100	65-130	5	20	
Toluene	25.0	1.0	0.36	ug/l	25.0	ND	100	70-125	2	20	
1,2,3-Trichlorobenzene	26.3	1.0	0.30	ug/l	25.0	ND	105	60-135	3	20	
1,2,4-Trichlorobenzene	27.7	1.0	0.48	ug/l	25.0	ND	111	65-135	2	20	
1,1,1-Trichloroethane	25.2	1.0	0.30	ug/l	25.0	ND	101	65-140	4	20	
1,1,2-Trichloroethane	26.2	1.0	0.30	ug/l	25.0	ND	105	65-130	1	25	
Trichloroethene	63.7	1.0	0.26	ug/l	25.0	44.8	76	65-125	2	20	
Trichlorofluoromethane	24.3	2.0	0.34	ug/l	25.0	ND	97	60-145	5	25	
1,2,3-Trichloropropane	26.7	1.0	0.40	ug/l	25.0	ND	107	55-135	3	30	
1,2,4-Trimethylbenzene	27.1	1.0	0.23	ug/l	25.0	ND	108	55-135	2	25	
1,3,5-Trimethylbenzene	26.7	1.0	0.26	ug/l	25.0	ND	107	70-130	2	20	
Vinyl acetate	23.2	6.0	1.0	ug/l	25.0	ND	93	40-150	2	30	

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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: IRF1437

Sampled: 06/17/08
Received: 06/17/08

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: 8F22005 Extracted: 06/22/08											
Matrix Spike Dup Analyzed: 06/22/2008 (8F22005-MSD1)						**Source: IRF1437-01RE1**					
Vinyl chloride	23.3	0.50	0.40	ug/l	25.0	ND	93	45-140	4	30	
m,p-Xylenes	51.5	1.0	0.60	ug/l	50.0	ND	103	65-130	3	25	
o-Xylene	25.7	0.50	0.30	ug/l	25.0	ND	103	65-125	3	20	
Di-isopropyl Ether (DIPE)	25.2	2.0	0.25	ug/l	25.0	ND	101	60-140	1	25	
Ethyl tert-Butyl Ether (ETBE)	26.0	2.0	0.28	ug/l	25.0	ND	104	60-135	0	25	
Methyl-tert-butyl Ether (MTBE)	25.6	1.0	0.32	ug/l	25.0	ND	102	55-145	1	25	
tert-Amyl Methyl Ether (TAME)	26.5	2.0	0.33	ug/l	25.0	ND	106	60-140	1	30	
tert-Butanol (TBA)	134	25	6.5	ug/l	125	ND	107	65-140	7	25	
Surrogate: 4-Bromofluorobenzene	*22.8*			*ug/l*	*25.0*		*91*	*80-120*			
Surrogate: Dibromofluoromethane	*22.4*			*ug/l*	*25.0*		*90*	*80-120*			
Surrogate: Toluene-d8	*22.4*			*ug/l*	*25.0*		*90*	*80-120*			
Batch: 8F23038 Extracted: 06/23/08											
Blank Analyzed: 06/23/2008 (8F23038-BLK1)											
Acetone	ND	10	4.5	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							
2-Butanone (MEK)	ND	5.0	4.7	ug/l							
n-Butylbenzene	ND	1.0	0.37	ug/l							
tert-Butylbenzene	ND	1.0	0.22	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							
4-Chlorotoluene	ND	1.0	0.29	ug/l							
2-Chlorotoluene	ND	1.0	0.28	ug/l							
1,2-Dibromo-3-chloropropane	ND	2.0	0.97	ug/l							
Dibromochloromethane	ND	1.0	0.40	ug/l							

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BOE-C6-0188895

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Avocet Environmental Inc.
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Project ID: Boeing C-6 Torrance (02/26/08)
1155.006
Report Number: IRF1437

Sampled: 06/17/08
Received: 06/17/08

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: 8F23038 Extracted: 06/23/08											
Blank Analyzed: 06/23/2008 (8F23038-BLK1)											
1,2-Dibromoethane (EDB)	ND	1.0	0.40	ug/l							
1,2-Dichlorobenzene	ND	1.0	0.32	ug/l							
1,3-Dichlorobenzene	ND	1.0	0.35	ug/l							
1,4-Dichlorobenzene	ND	1.0	0.37	ug/l							
Dichlorodifluoromethane	ND	1.0	0.26	ug/l							
1,1-Dichloroethane	ND	1.0	0.40	ug/l							
cis-1,2-Dichloroethene	ND	1.0	0.32	ug/l							
trans-1,2-Dichloroethene	ND	1.0	0.30	ug/l							
1,1-Dichloroethene	ND	1.0	0.42	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							
trans-1,3-Dichloropropene	ND	0.50	0.32	ug/l							
1,1-Dichloropropene	ND	1.0	0.28	ug/l							
Ethylbenzene	ND	1.0	0.25	ug/l							
1,2-Dichloroethane	ND	0.50	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							
4-Methyl-2-pentanone (MIBK)	ND	5.0	3.5	ug/l							
Methylene chloride	ND	1.0	0.95	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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Attention: Michael Rendina

Project ID: Boeing C-6 Torrance (02/26/08)
1155.006
Report Number: IRF1437

Sampled: 06/17/08
Received: 06/17/08

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: 8F23038 Extracted: 06/23/08											
Blank Analyzed: 06/23/2008 (8F23038-BLK1)											
Trichlorofluoromethane	ND	2.0	0.34	ug/l							
1,2,3-Trichloropropane	ND	1.0	0.40	ug/l							
1,2,4-Trimethylbenzene	ND	1.0	0.23	ug/l							
1,3,5-Trimethylbenzene	ND	1.0	0.26	ug/l							
Vinyl acetate	ND	6.0	1.0	ug/l							
Vinyl chloride	ND	0.50	0.40	ug/l							
m,p-Xylenes	ND	1.0	0.60	ug/l							
o-Xylene	ND	0.50	0.30	ug/l							
Xylenes, Total	ND	1.0	0.90	ug/l							
Di-isopropyl Ether (DIPE)	ND	2.0	0.25	ug/l							
Ethyl tert-Butyl Ether (ETBE)	ND	2.0	0.28	ug/l							
Methyl-tert-butyl Ether (MTBE)	ND	1.0	0.32	ug/l							
tert-Amyl Methyl Ether (TAME)	ND	2.0	0.33	ug/l							
tert-Butanol (TBA)	ND	25	6.5	ug/l							
Surrogate: 4-Bromofluorobenzene	*24.1*			*ug/l*	*25.0*		*96*	*80-120*			
Surrogate: Dibromofluoromethane	*25.4*			*ug/l*	*25.0*		*101*	*80-120*			
Surrogate: Toluene-d8	*23.7*			*ug/l*	*25.0*		*95*	*80-120*			
LCS Analyzed: 06/23/2008 (8F23038-BS1)											
Acetone	24.1	10	4.5	ug/l	25.0		97	30-140			
Benzene	22.5	0.50	0.28	ug/l	25.0		90	70-120			
Bromobenzene	26.2	1.0	0.27	ug/l	25.0		105	75-120			
Bromochloromethane	28.1	1.0	0.40	ug/l	25.0		113	70-130			
Bromodichloromethane	28.5	1.0	0.30	ug/l	25.0		114	70-135			
Bromoform	26.2	1.0	0.40	ug/l	25.0		105	55-130			
Bromomethane	28.4	1.0	0.42	ug/l	25.0		114	65-140			
2-Butanone (MEK)	19.8	5.0	4.7	ug/l	25.0		79	40-140			
n-Butylbenzene	22.7	1.0	0.37	ug/l	25.0		91	70-130			
tert-Butylbenzene	24.1	1.0	0.22	ug/l	25.0		96	70-125			
sec-Butylbenzene	22.4	1.0	0.25	ug/l	25.0		90	70-125			
Carbon Disulfide	21.6	1.0	0.48	ug/l	25.0		87	50-130			
Carbon tetrachloride	31.2	0.50	0.28	ug/l	25.0		125	65-140			
Chlorobenzene	23.2	1.0	0.36	ug/l	25.0		93	75-120			
Chloroethane	26.2	2.0	0.40	ug/l	25.0		105	60-140			
Chloroform	26.6	1.0	0.33	ug/l	25.0		107	70-130			
Chloromethane	26.0	2.0	0.40	ug/l	25.0		104	50-140			

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Project Manager

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BOE-C6-0188896

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)
1155.006
Report Number: IRF1437

Sampled: 06/17/08
Received: 06/17/08

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: 8F23038 Extracted: 06/23/08											
LCS Analyzed: 06/23/2008 (8F23038-BS1)											
4-Chlorotoluene	24.6	1.0	0.29	ug/l	25.0		98	75-125			
2-Chlorotoluene	23.8	1.0	0.28	ug/l	25.0		95	70-125			
1,2-Dibromo-3-chloropropane	25.4	2.0	0.97	ug/l	25.0		102	50-135			
Dibromochloromethane	31.5	1.0	0.40	ug/l	25.0		126	70-140			
1,2-Dibromoethane (EDB)	25.8	1.0	0.40	ug/l	25.0		103	75-125			
1,2-Dichlorobenzene	25.0	1.0	0.32	ug/l	25.0		100	75-120			
1,3-Dichlorobenzene	25.7	1.0	0.35	ug/l	25.0		103	75-120			
1,4-Dichlorobenzene	23.3	1.0	0.37	ug/l	25.0		93	75-120			
Dichlorodifluoromethane	27.5	1.0	0.26	ug/l	25.0		110	35-155			
1,1-Dichloroethane	25.6	1.0	0.40	ug/l	25.0		102	70-125			
cis-1,2-Dichloroethene	22.8	1.0	0.32	ug/l	25.0		91	70-125			
trans-1,2-Dichloroethene	20.9	1.0	0.30	ug/l	25.0		84	70-125			
1,1-Dichloroethene	22.3	1.0	0.42	ug/l	25.0		89	70-125			
2,2-Dichloropropane	29.2	1.0	0.34	ug/l	25.0		117	65-140			
1,2-Dichloropropane	24.8	1.0	0.35	ug/l	25.0		99	70-125			
cis-1,3-Dichloropropene	28.2	0.50	0.22	ug/l	25.0		113	75-125			
trans-1,3-Dichloropropene	30.1	0.50	0.32	ug/l	25.0		120	70-125			
1,1-Dichloropropene	24.1	1.0	0.28	ug/l	25.0		96	75-130			
Ethylbenzene	22.9	1.0	0.25	ug/l	25.0		92	75-125			
1,2-Dichloroethane	30.4	0.50	0.28	ug/l	25.0		121	60-140			
Hexachlorobutadiene	20.9	1.0	0.38	ug/l	25.0		84	65-135			
2-Hexanone	19.3	6.0	2.6	ug/l	25.0		77	45-140			
Isopropylbenzene	27.3	1.0	0.25	ug/l	25.0		109	75-130			
p-Isopropyltoluene	23.7	1.0	0.28	ug/l	25.0		95	75-125			
4-Methyl-2-pentanone (MIBK)	21.7	5.0	3.5	ug/l	25.0		87	45-140			
Methylene chloride	24.2	1.0	0.95	ug/l	25.0		97	55-130			
n-Propylbenzene	24.6	1.0	0.27	ug/l	25.0		98	75-130			
Styrene	25.9	1.0	0.20	ug/l	25.0		104	75-130			
1,1,1,2-Tetrachloroethane	29.2	1.0	0.27	ug/l	25.0		117	70-130			
1,1,2,2-Tetrachloroethane	25.4	1.0	0.30	ug/l	25.0		102	55-130			
Tetrachloroethene	23.8	1.0	0.32	ug/l	25.0		95	70-125			
Toluene	22.4	1.0	0.36	ug/l	25.0		89	70-120			
1,2,3-Trichlorobenzene	23.9	1.0	0.30	ug/l	25.0		96	65-125			
1,2,4-Trichlorobenzene	25.1	1.0	0.48	ug/l	25.0		100	70-135			
1,1,1-Trichloroethane	28.9	1.0	0.30	ug/l	25.0		116	65-135			

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Avocet Environmental Inc.
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Attention: Michael Rendina

Project ID: Boeing C-6 Torrance (02/26/08)
1155.006
Report Number: IRF1437

Sampled: 06/17/08
Received: 06/17/08

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: 8F23038 Extracted: 06/23/08											
LCS Analyzed: 06/23/2008 (8F23038-BS1)											
1,1,2-Trichloroethane	26.4	1.0	0.30	ug/l	25.0		106	70-125			
Trichloroethene	25.0	1.0	0.26	ug/l	25.0		100	70-125			
Trichlorofluoromethane	28.2	2.0	0.34	ug/l	25.0		113	65-145			
1,2,3-Trichloropropane	24.6	1.0	0.40	ug/l	25.0		98	60-130			
1,2,4-Trimethylbenzene	24.2	1.0	0.23	ug/l	25.0		97	75-125			
1,3,5-Trimethylbenzene	24.2	1.0	0.26	ug/l	25.0		97	75-125			
Vinyl acetate	26.5	6.0	1.0	ug/l	25.0		106	45-145			
Vinyl chloride	25.6	0.50	0.40	ug/l	25.0		102	55-135			
m,p-Xylenes	45.9	1.0	0.60	ug/l	50.0		92	75-125			
o-Xylene	25.5	0.50	0.30	ug/l	25.0		102	75-125			
Di-isopropyl Ether (DIPE)	24.0	2.0	0.25	ug/l	25.0		96	60-135			
Ethyl tert-Butyl Ether (ETBE)	26.7	2.0	0.28	ug/l	25.0		107	65-135			
Methyl-tert-butyl Ether (MTBE)	26.5	1.0	0.32	ug/l	25.0		106	60-135			
tert-Amyl Methyl Ether (TAME)	27.0	2.0	0.33	ug/l	25.0		108	60-135			
tert-Butanol (TBA)	144	25	6.5	ug/l	125		115	70-135			
Surrogate: 4-Bromofluorobenzene	*23.8*			*ug/l*	*25.0*		*95*	*80-120*			
Surrogate: Dibromofluoromethane	*26.0*			*ug/l*	*25.0*		*104*	*80-120*			
Surrogate: Toluene-d8	*23.5*			*ug/l*	*25.0*		*94*	*80-120*			
Matrix Spike Analyzed: 06/23/2008 (8F23038-MS1)						**Source: IRF1858-01**					
Acetone	256	100	45	ug/l	250	ND	103	20-150			
Benzene	244	5.0	2.8	ug/l	250	ND	98	65-125			
Bromobenzene	271	10	2.7	ug/l	250	ND	108	70-125			
Bromochloromethane	284	10	4.0	ug/l	250	ND	114	65-135			
Bromodichloromethane	316	10	3.0	ug/l	250	ND	127	70-135			
Bromoform	279	10	4.0	ug/l	250	ND	112	55-135			
Bromomethane	317	10	4.2	ug/l	250	ND	127	55-145			
2-Butanone (MEK)	231	50	47	ug/l	250	ND	92	30-145			
n-Butylbenzene	250	10	3.7	ug/l	250	ND	100	65-135			
tert-Butylbenzene	253	10	2.2	ug/l	250	ND	101	65-130			
sec-Butylbenzene	233	10	2.5	ug/l	250	ND	93	70-125			
Carbon Disulfide	233	10	4.8	ug/l	250	ND	93	40-140			
Carbon tetrachloride	360	5.0	2.8	ug/l	250	ND	144	65-140			*M1*
Chlorobenzene	258	10	3.6	ug/l	250	ND	103	75-125			
Chloroethane	270	20	4.0	ug/l	250	ND	108	55-140			
Chloroform	284	10	3.3	ug/l	250	ND	114	65-135			

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Project Manager

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Attention: Michael Rendina

Project ID: Boeing C-6 Torrance (02/26/08)
1155.006
Report Number: IRF1437

Sampled: 06/17/08
Received: 06/17/08

METHOD BLANK/QC DATA

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

Batch: 8F23038 Extracted: 06/23/08

Matrix Spike Analyzed: 06/23/2008 (8F23038-MS1) — Source: IRF1858-01

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Chloromethane	272	20	4.0	ug/l	250	ND	109	45-145			
4-Chlorotoluene	257	10	2.9	ug/l	250	ND	103	70-135			
2-Chlorotoluene	251	10	2.8	ug/l	250	ND	100	65-135			
1,2-Dibromo-3-chloropropane	289	20	9.7	ug/l	250	ND	116	45-145			
Dibromochloromethane	329	10	4.0	ug/l	250	ND	132	65-140			
1,2-Dibromoethane (EDB)	279	10	4.0	ug/l	250	ND	112	70-130			
1,2-Dichlorobenzene	264	10	3.2	ug/l	250	ND	106	75-125			
1,3-Dichlorobenzene	272	10	3.5	ug/l	250	ND	109	75-125			
1,4-Dichlorobenzene	248	10	3.7	ug/l	250	ND	99	75-125			
Dichlorodifluoromethane	306	10	2.6	ug/l	250	ND	122	25-155			
1,1-Dichloroethane	271	10	4.0	ug/l	250	ND	108	65-130			
cis-1,2-Dichloroethene	253	10	3.2	ug/l	250	10.5	97	65-130			
trans-1,2-Dichloroethene	234	10	3.0	ug/l	250	ND	94	65-130			
1,1-Dichloroethene	248	10	4.2	ug/l	250	ND	99	60-130			
2,2-Dichloropropane	311	10	3.4	ug/l	250	ND	125	60-145			
1,2-Dichloropropane	270	10	3.5	ug/l	250	ND	108	65-130			
cis-1,3-Dichloropropene	299	5.0	2.2	ug/l	250	ND	120	70-130			
trans-1,3-Dichloropropene	330	5.0	3.2	ug/l	250	ND	132	65-135			
1,1-Dichloropropene	273	10	2.8	ug/l	250	ND	109	70-135			
Ethylbenzene	260	10	2.5	ug/l	250	ND	104	65-130			
1,2-Dichloroethane	329	5.0	2.8	ug/l	250	ND	131	60-140			
Hexachlorobutadiene	232	10	3.8	ug/l	250	ND	93	60-135			
2-Hexanone	222	60	26	ug/l	250	ND	89	25-140			
Isopropylbenzene	293	10	2.5	ug/l	250	ND	117	70-135			
p-Isopropyltoluene	257	10	2.8	ug/l	250	ND	103	65-130			
4-Methyl-2-pentanone (MIBK)	251	50	35	ug/l	250	ND	100	40-140			
Methylene chloride	260	10	9.5	ug/l	250	ND	104	50-135			
n-Propylbenzene	266	10	2.7	ug/l	250	ND	106	70-135			
Styrene	277	10	2.0	ug/l	250	ND	111	50-145			
1,1,1,2-Tetrachloroethane	311	10	2.7	ug/l	250	ND	124	65-140			
1,1,2,2-Tetrachloroethane	269	10	3.0	ug/l	250	ND	108	55-135			
Tetrachloroethene	278	10	3.2	ug/l	250	ND	111	65-130			
Toluene	254	10	3.6	ug/l	250	ND	102	70-125			
1,2,3-Trichlorobenzene	264	10	3.0	ug/l	250	ND	106	60-135			
1,2,4-Trichlorobenzene	264	10	4.8	ug/l	250	ND	106	65-135			

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Attention: Michael Rendina

Project ID: Boeing C-6 Torrance (02/26/08)
1155.006
Report Number: IRF1437

Sampled: 06/17/08
Received: 06/17/08

METHOD BLANK/QC DATA

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

Batch: 8F23038 Extracted: 06/23/08

Matrix Spike Analyzed: 06/23/2008 (8F23038-MS1) — Source: IRF1858-01

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
1,1,1-Trichloroethane	318	10	3.0	ug/l	250	ND	127	65-140			
1,1,2-Trichloroethane	290	10	3.0	ug/l	250	ND	116	65-130			
Trichloroethene	461	10	2.6	ug/l	250	234	91	65-125			
Trichlorofluoromethane	318	20	3.4	ug/l	250	ND	127	60-145			
1,2,3-Trichloropropane	265	10	4.0	ug/l	250	ND	106	55-135			
1,2,4-Trimethylbenzene	260	10	2.3	ug/l	250	ND	104	55-135			
1,3,5-Trimethylbenzene	262	10	2.6	ug/l	250	ND	105	70-130			
Vinyl acetate	287	60	10	ug/l	250	ND	115	40-150			
Vinyl chloride	286	5.0	4.0	ug/l	250	ND	114	45-140			
m,p-Xylenes	511	10	6.0	ug/l	500	ND	102	65-130			
o-Xylene	278	5.0	3.0	ug/l	250	ND	111	65-125			
Di-isopropyl Ether (DIPE)	260	20	2.5	ug/l	250	ND	104	60-140			
Ethyl tert-Butyl Ether (ETBE)	279	20	2.8	ug/l	250	ND	112	60-135			
Methyl-tert-butyl Ether (MTBE)	275	10	3.2	ug/l	250	ND	110	55-145			
tert-Amyl Methyl Ether (TAME)	283	20	3.3	ug/l	250	ND	113	60-140			
tert-Butanol (TBA)	1360	250	65	ug/l	1250	ND	109	65-140			
Surrogate: 4-Bromofluorobenzene	*257*			*ug/l*	*250*		*103*	*80-120*			
Surrogate: Dibromofluoromethane	*257*			*ug/l*	*250*		*103*	*80-120*			
Surrogate: Toluene-d8	*248*			*ug/l*	*250*		*99*	*80-120*			

Matrix Spike Dup Analyzed: 06/23/2008 (8F23038-MSD1) — Source: IRF1858-01

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Acetone	234	100	45	ug/l	250	ND	93	20-150	9	35	
Benzene	248	5.0	2.8	ug/l	250	ND	99	65-125	1	20	
Bromobenzene	283	10	2.7	ug/l	250	ND	113	70-125	4	20	
Bromochloromethane	294	10	4.0	ug/l	250	ND	118	65-135	3	25	
Bromodichloromethane	315	10	3.0	ug/l	250	ND	126	70-135	0	20	
Bromoform	269	10	4.0	ug/l	250	ND	108	55-135	4	25	
Bromomethane	333	10	4.2	ug/l	250	ND	133	55-145	5	25	
2-Butanone (MEK)	217	50	47	ug/l	250	ND	87	30-145	6	40	
n-Butylbenzene	254	10	3.7	ug/l	250	ND	102	65-135	2	20	
tert-Butylbenzene	268	10	2.2	ug/l	250	ND	107	65-130	6	20	
sec-Butylbenzene	246	10	2.5	ug/l	250	ND	98	70-125	5	20	
Carbon Disulfide	249	10	4.8	ug/l	250	ND	99	40-140	6	20	
Carbon tetrachloride	351	5.0	2.8	ug/l	250	ND	140	65-140	3	25	
Chlorobenzene	257	10	3.6	ug/l	250	ND	103	75-125	0	20	
Chloroethane	298	20	4.0	ug/l	250	ND	119	55-140	10	25	

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Project Manager

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Attention: Michael Rendina

Project ID: Boeing C-6 Torrance (02/26/08)
1155.006
Report Number: IRF1437

Sampled: 06/17/08
Received: 06/17/08

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: 8F23038 Extracted: 06/23/08											
Matrix Spike Dup Analyzed: 06/23/2008 (8F23038-MSD1)						**Source: IRF1858-01**					
Chloroform	299	10	3.3	ug/l	250	ND	120	65-135	5	20	
Chloromethane	294	20	4.0	ug/l	250	ND	118	45-145	8	25	
4-Chlorotoluene	278	10	2.9	ug/l	250	ND	111	70-135	8	20	
2-Chlorotoluene	267	10	2.8	ug/l	250	ND	107	65-135	6	20	
1,2-Dibromo-3-chloropropane	274	20	9.7	ug/l	250	ND	110	45-145	5	30	
Dibromochloromethane	326	10	4.0	ug/l	250	ND	130	65-140	1	25	
1,2-Dibromoethane (EDB)	272	10	4.0	ug/l	250	ND	109	70-130	3	25	
1,2-Dichlorobenzene	274	10	3.2	ug/l	250	ND	110	75-125	4	20	
1,3-Dichlorobenzene	276	10	3.5	ug/l	250	ND	110	75-125	2	20	
1,4-Dichlorobenzene	251	10	3.7	ug/l	250	ND	101	75-125	1	20	
Dichlorodifluoromethane	316	10	2.6	ug/l	250	ND	126	25-155	3	30	
1,1-Dichloroethane	288	10	4.0	ug/l	250	ND	115	65-130	6	20	
cis-1,2-Dichloroethene	261	10	3.2	ug/l	250	10.5	100	65-130	3	20	
trans-1,2-Dichloroethene	244	10	3.0	ug/l	250	ND	98	65-130	4	20	
1,1-Dichloroethene	259	10	4.2	ug/l	250	ND	104	60-130	5	20	
2,2-Dichloropropane	324	10	3.4	ug/l	250	ND	130	60-145	4	25	
1,2-Dichloropropane	268	10	3.5	ug/l	250	ND	107	65-130	1	20	
cis-1,3-Dichloropropene	312	5.0	2.2	ug/l	250	ND	125	70-130	4	20	
trans-1,3-Dichloropropene	326	5.0	3.2	ug/l	250	ND	130	65-135	1	25	
1,1-Dichloropropene	275	10	2.8	ug/l	250	ND	110	70-135	1	20	
Ethylbenzene	264	10	2.5	ug/l	250	ND	105	65-130	1	20	
1,2-Dichloroethane	328	5.0	2.8	ug/l	250	ND	131	60-140	0	20	
Hexachlorobutadiene	230	10	3.8	ug/l	250	ND	92	60-135	1	20	
2-Hexanone	200	60	26	ug/l	250	ND	80	25-140	11	35	
Isopropylbenzene	316	10	2.5	ug/l	250	ND	127	70-135	8	20	
p-Isopropyltoluene	265	10	2.8	ug/l	250	ND	106	65-130	3	20	
4-Methyl-2-pentanone (MIBK)	227	50	35	ug/l	250	ND	91	40-140	10	35	
Methylene chloride	268	10	9.5	ug/l	250	ND	107	50-135	3	20	
n-Propylbenzene	285	10	2.7	ug/l	250	ND	114	70-135	7	20	
Styrene	280	10	2.0	ug/l	250	ND	112	50-145	1	30	
1,1,1,2-Tetrachloroethane	313	10	2.7	ug/l	250	ND	125	65-140	1	20	
1,1,2,2-Tetrachloroethane	265	10	3.0	ug/l	250	ND	106	55-135	2	30	
Tetrachloroethene	274	10	3.2	ug/l	250	ND	109	65-130	1	20	
Toluene	263	10	3.6	ug/l	250	ND	105	70-125	3	20	
1,2,3-Trichlorobenzene	253	10	3.0	ug/l	250	ND	101	60-135	5	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 (02/26/08)
1155.006
Report Number: IRF1437

Sampled: 06/17/08
Received: 06/17/08

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: 8F23038 Extracted: 06/23/08											
Matrix Spike Dup Analyzed: 06/23/2008 (8F23038-MSD1)						**Source: IRF1858-01**					
1,2,4-Trichlorobenzene	259	10	4.8	ug/l	250	ND	104	65-135	2	20	
1,1,1-Trichloroethane	328	10	3.0	ug/l	250	ND	131	65-140	3	20	
1,1,2-Trichloroethane	275	10	3.0	ug/l	250	ND	110	65-130	5	25	
Trichloroethene	456	10	2.6	ug/l	250	234	89	65-125	1	20	
Trichlorofluoromethane	330	20	3.4	ug/l	250	ND	132	60-145	4	25	
1,2,3-Trichloropropane	266	10	4.0	ug/l	250	ND	106	55-135	0	30	
1,2,4-Trimethylbenzene	271	10	2.3	ug/l	250	ND	109	55-135	4	25	
1,3,5-Trimethylbenzene	276	10	2.6	ug/l	250	ND	110	70-130	5	20	
Vinyl acetate	291	60	10	ug/l	250	ND	116	40-150	1	30	
Vinyl chloride	306	5.0	4.0	ug/l	250	ND	122	45-140	7	30	
m,p-Xylenes	517	10	6.0	ug/l	500	ND	103	65-130	1	25	
o-Xylene	274	5.0	3.0	ug/l	250	ND	110	65-125	1	20	
Di-isopropyl Ether (DIPE)	270	20	2.5	ug/l	250	ND	108	60-140	4	25	
Ethyl tert-Butyl Ether (ETBE)	290	20	2.8	ug/l	250	ND	116	60-135	4	25	
Methyl-tert-butyl Ether (MTBE)	282	10	3.2	ug/l	250	ND	113	55-145	2	25	
tert-Amyl Methyl Ether (TAME)	293	20	3.3	ug/l	250	ND	117	60-140	4	30	
tert-Butanol (TBA)	1390	250	65	ug/l	1250	ND	111	65-140	3	25	
Surrogate: 4-Bromofluorobenzene	*247*			*ug/l*	*250*		*99*	*80-120*			
Surrogate: Dibromofluoromethane	*254*			*ug/l*	*250*		*102*	*80-120*			
Surrogate: Toluene-d8	*241*			*ug/l*	*250*		*97*	*80-120*			
Batch: 8F23055 Extracted: 06/23/08											
Blank Analyzed: 06/23/2008 (8F23055-BLK1)											
Acetone	ND	10	4.5	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							
2-Butanone (MEK)	ND	5.0	4.7	ug/l							
n-Butylbenzene	ND	1.0	0.37	ug/l							
tert-Butylbenzene	ND	1.0	0.22	ug/l							
sec-Butylbenzene	ND	1.0	0.25	ug/l							
Carbon Disulfide	ND	1.0	0.48	ug/l							

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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: IRF1437

Sampled: 06/17/08
Received: 06/17/08

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: 8F23055 Extracted: 06/23/08											
Blank Analyzed: 06/23/2008 (8F23055-BLK1)											
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							
4-Chlorotoluene	ND	1.0	0.29	ug/l							
2-Chlorotoluene	ND	1.0	0.28	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							
1,2-Dichlorobenzene	ND	1.0	0.32	ug/l							
1,3-Dichlorobenzene	ND	1.0	0.35	ug/l							
1,4-Dichlorobenzene	ND	1.0	0.37	ug/l							
Dichlorodifluoromethane	ND	1.0	0.26	ug/l							
1,1-Dichloroethane	ND	1.0	0.40	ug/l							
cis-1,2-Dichloroethene	ND	1.0	0.32	ug/l							
trans-1,2-Dichloroethene	ND	1.0	0.30	ug/l							
1,1-Dichloroethene	ND	1.0	0.42	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							
trans-1,3-Dichloropropene	ND	0.50	0.32	ug/l							
1,1-Dichloropropene	ND	1.0	0.28	ug/l							
Ethylbenzene	ND	1.0	0.25	ug/l							
1,2-Dichloroethane	ND	0.50	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							
4-Methyl-2-pentanone (MIBK)	ND	5.0	3.5	ug/l							
Methylene chloride	ND	1.0	0.95	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							

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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: 8F23055 Extracted: 06/23/08											
Blank Analyzed: 06/23/2008 (8F23055-BLK1)											
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							
1,2,4-Trimethylbenzene	ND	1.0	0.23	ug/l							
1,3,5-Trimethylbenzene	ND	1.0	0.26	ug/l							
Vinyl acetate	ND	6.0	1.0	ug/l							
Vinyl chloride	ND	0.50	0.40	ug/l							
m,p-Xylenes	ND	1.0	0.60	ug/l							
o-Xylene	ND	0.50	0.30	ug/l							
Xylenes, Total	ND	1.0	0.90	ug/l							
Di-isopropyl Ether (DIPE)	ND	2.0	0.25	ug/l							
Ethyl tert-Butyl Ether (ETBE)	ND	2.0	0.28	ug/l							
Methyl-tert-butyl Ether (MTBE)	ND	1.0	0.32	ug/l							
tert-Amyl Methyl Ether (TAME)	ND	2.0	0.33	ug/l							
tert-Butanol (TBA)	ND	25	6.5	ug/l							
Surrogate: 4-Bromofluorobenzene	*22.6*			*ug/l*	*25.0*		*91*	*80-120*			
Surrogate: Dibromofluoromethane	*22.0*			*ug/l*	*25.0*		*88*	*80-120*			
Surrogate: Toluene-d8	*24.0*			*ug/l*	*25.0*		*96*	*80-120*			
LCS Analyzed: 06/23/2008 (8F23055-BS1)											
Acetone	15.5	10	4.5	ug/l	25.0		62	30-140			
Benzene	25.8	0.50	0.28	ug/l	25.0		103	70-120			
Bromobenzene	27.5	1.0	0.27	ug/l	25.0		110	75-120			
Bromochloromethane	25.7	1.0	0.40	ug/l	25.0		103	70-130			
Bromodichloromethane	26.4	1.0	0.30	ug/l	25.0		106	70-135			
Bromoform	24.6	1.0	0.40	ug/l	25.0		98	55-130			
Bromomethane	24.5	1.0	0.42	ug/l	25.0		98	65-140			
2-Butanone (MEK)	20.4	5.0	4.7	ug/l	25.0		82	40-140			

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Project ID: Boeing C-6 Torrance (02/26/08)
1155.006
Report Number: IRF1437

Sampled: 06/17/08
Received: 06/17/08

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: 8F23055 Extracted: 06/23/08											
LCS Analyzed: 06/23/2008 (8F23055-BS1)											
n-Butylbenzene	27.7	1.0	0.37	ug/l	25.0		111	70-130			
tert-Butylbenzene	28.3	1.0	0.22	ug/l	25.0		113	70-125			
sec-Butylbenzene	27.6	1.0	0.25	ug/l	25.0		110	70-125			
Carbon Disulfide	21.5	1.0	0.48	ug/l	25.0		86	50-130			
Carbon tetrachloride	29.8	0.50	0.28	ug/l	25.0		119	65-140			
Chlorobenzene	26.9	1.0	0.36	ug/l	25.0		108	75-120			
Chloroethane	24.4	2.0	0.40	ug/l	25.0		97	60-140			
Chloroform	22.5	1.0	0.33	ug/l	25.0		90	70-130			
Chloromethane	20.8	2.0	0.40	ug/l	25.0		83	50-140			
4-Chlorotoluene	26.8	1.0	0.29	ug/l	25.0		107	75-125			
2-Chlorotoluene	26.3	1.0	0.28	ug/l	25.0		105	70-125			
1,2-Dibromo-3-chloropropane	25.0	2.0	0.97	ug/l	25.0		100	50-135			
Dibromochloromethane	25.7	1.0	0.40	ug/l	25.0		103	70-140			
1,2-Dibromoethane (EDB)	25.2	1.0	0.40	ug/l	25.0		101	75-125			
1,2-Dichlorobenzene	28.1	1.0	0.32	ug/l	25.0		112	75-120			
1,3-Dichlorobenzene	27.9	1.0	0.35	ug/l	25.0		112	75-120			
1,4-Dichlorobenzene	26.9	1.0	0.37	ug/l	25.0		108	75-120			
Dichlorodifluoromethane	22.4	1.0	0.26	ug/l	25.0		89	35-155			
1,1-Dichloroethane	23.5	1.0	0.40	ug/l	25.0		94	70-125			
cis-1,2-Dichloroethene	24.0	1.0	0.32	ug/l	25.0		96	70-125			
trans-1,2-Dichloroethene	22.3	1.0	0.30	ug/l	25.0		89	70-125			
1,1-Dichloroethene	27.0	1.0	0.42	ug/l	25.0		108	70-125			
2,2-Dichloropropane	27.2	1.0	0.34	ug/l	25.0		109	65-140			
1,2-Dichloropropane	24.2	1.0	0.35	ug/l	25.0		97	70-125			
cis-1,3-Dichloropropene	32.8	0.50	0.22	ug/l	25.0		131	75-125			L
trans-1,3-Dichloropropene	26.0	0.50	0.32	ug/l	25.0		104	70-125			
1,1-Dichloropropene	27.2	1.0	0.28	ug/l	25.0		109	75-130			
Ethylbenzene	27.0	1.0	0.25	ug/l	25.0		108	75-125			
1,2-Dichloroethane	24.0	0.50	0.28	ug/l	25.0		96	60-140			
Hexachlorobutadiene	29.1	1.0	0.38	ug/l	25.0		116	65-135			
2-Hexanone	18.4	6.0	2.6	ug/l	25.0		73	45-140			
Isopropylbenzene	27.0	1.0	0.25	ug/l	25.0		108	75-130			
p-Isopropyltoluene	28.4	1.0	0.28	ug/l	25.0		114	75-125			
4-Methyl-2-pentanone (MIBK)	18.8	5.0	3.5	ug/l	25.0		75	45-140			
Methylene chloride	23.4	1.0	0.95	ug/l	25.0		93	55-130			

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Project ID: Boeing C-6 Torrance (02/26/08)
1155.006
Report Number: IRF1437

Sampled: 06/17/08
Received: 06/17/08

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: 8F23055 Extracted: 06/23/08											
LCS Analyzed: 06/23/2008 (8F23055-BS1)											
n-Propylbenzene	26.8	1.0	0.27	ug/l	25.0		107	75-130			
Styrene	27.3	1.0	0.20	ug/l	25.0		109	75-130			
1,1,1,2-Tetrachloroethane	29.8	1.0	0.27	ug/l	25.0		119	70-130			
1,1,2,2-Tetrachloroethane	25.8	1.0	0.30	ug/l	25.0		103	55-130			
Tetrachloroethene	26.9	1.0	0.32	ug/l	25.0		108	70-125			
Toluene	26.0	1.0	0.36	ug/l	25.0		104	70-120			
1,2,3-Trichlorobenzene	29.8	1.0	0.30	ug/l	25.0		119	65-125			
1,2,4-Trichlorobenzene	30.9	1.0	0.48	ug/l	25.0		124	70-135			
1,1,1-Trichloroethane	25.5	1.0	0.30	ug/l	25.0		102	65-135			
1,1,2-Trichloroethane	25.8	1.0	0.30	ug/l	25.0		103	70-125			
Trichloroethene	27.6	1.0	0.26	ug/l	25.0		110	70-125			
Trichlorofluoromethane	21.8	2.0	0.34	ug/l	25.0		87	65-145			
1,2,3-Trichloropropane	25.0	1.0	0.40	ug/l	25.0		100	60-130			
1,2,4-Trimethylbenzene	28.5	1.0	0.23	ug/l	25.0		114	75-125			
1,3,5-Trimethylbenzene	27.9	1.0	0.26	ug/l	25.0		111	75-125			
Vinyl acetate	24.5	6.0	1.0	ug/l	25.0		98	45-145			
Vinyl chloride	25.2	0.50	0.40	ug/l	25.0		101	55-135			
m,p-Xylenes	54.2	1.0	0.60	ug/l	50.0		108	75-125			
o-Xylene	26.8	0.50	0.30	ug/l	25.0		107	75-125			
Di-isopropyl Ether (DIPE)	21.1	2.0	0.25	ug/l	25.0		85	60-135			
Ethyl tert-Butyl Ether (ETBE)	22.9	2.0	0.28	ug/l	25.0		92	65-135			
Methyl-tert-butyl Ether (MTBE)	23.2	1.0	0.32	ug/l	25.0		93	60-135			
tert-Amyl Methyl Ether (TAME)	23.4	2.0	0.33	ug/l	25.0		94	60-135			
tert-Butanol (TBA)	135	25	6.5	ug/l	125		108	70-135			
Surrogate: 4-Bromofluorobenzene	*22.3*			*ug/l*	*25.0*		*89*	*80-120*			
Surrogate: Dibromofluoromethane	*21.9*			*ug/l*	*25.0*		*87*	*80-120*			
Surrogate: Toluene-d8	*24.4*			*ug/l*	*25.0*		*97*	*80-120*			

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Project ID: Boeing C-6 Torrance (02/26/08)
1155.006
Report Number: IRF1437

Sampled: 06/17/08
Received: 06/17/08

METHOD BLANK/QC DATA

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

Batch: 8F23055 Extracted: 06/23/08

Matrix Spike Analyzed: 06/23/2008 (8F23055-MS1) — **Source: IRF1930-02**

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Acetone	24.3	10	4.5	ug/l	25.0	8.22	64	20-150			
Benzene	24.6	0.50	0.28	ug/l	25.0	ND	99	65-125			
Bromobenzene	27.1	1.0	0.27	ug/l	25.0	ND	108	70-125			
Bromochloromethane	26.0	1.0	0.40	ug/l	25.0	ND	104	65-135			
Bromodichloromethane	26.1	1.0	0.30	ug/l	25.0	ND	104	70-135			
Bromoform	25.0	1.0	0.40	ug/l	25.0	ND	100	55-135			
Bromomethane	23.6	1.0	0.42	ug/l	25.0	ND	94	55-145			
2-Butanone (MEK)	21.5	5.0	4.7	ug/l	25.0	ND	86	30-145			
n-Butylbenzene	26.4	1.0	0.37	ug/l	25.0	ND	106	65-135			
tert-Butylbenzene	26.9	1.0	0.22	ug/l	25.0	ND	108	65-130			
sec-Butylbenzene	26.3	1.0	0.25	ug/l	25.0	ND	105	70-125			
Carbon Disulfide	20.6	1.0	0.48	ug/l	25.0	ND	83	40-140			
Carbon tetrachloride	28.7	0.50	0.28	ug/l	25.0	ND	115	65-140			
Chlorobenzene	25.9	1.0	0.36	ug/l	25.0	ND	103	75-125			
Chloroethane	23.9	2.0	0.40	ug/l	25.0	ND	96	55-140			
Chloroform	25.1	1.0	0.33	ug/l	25.0	2.82	89	65-135			
Chloromethane	20.4	2.0	0.40	ug/l	25.0	0.420	80	45-145			
4-Chlorotoluene	25.9	1.0	0.29	ug/l	25.0	ND	104	70-135			
2-Chlorotoluene	25.4	1.0	0.28	ug/l	25.0	ND	101	65-135			
1,2-Dibromo-3-chloropropane	28.0	2.0	0.97	ug/l	25.0	ND	112	45-145			
Dibromochloromethane	25.7	1.0	0.40	ug/l	25.0	ND	103	65-140			
1,2-Dibromoethane (EDB)	25.9	1.0	0.40	ug/l	25.0	ND	104	70-130			
1,2-Dichlorobenzene	27.6	1.0	0.32	ug/l	25.0	ND	110	75-125			
1,3-Dichlorobenzene	26.9	1.0	0.35	ug/l	25.0	ND	108	75-125			
1,4-Dichlorobenzene	26.3	1.0	0.37	ug/l	25.0	ND	105	75-125			
Dichlorodifluoromethane	21.7	1.0	0.26	ug/l	25.0	ND	87	25-155			
1,1-Dichloroethane	23.0	1.0	0.40	ug/l	25.0	ND	92	65-130			
cis-1,2-Dichloroethene	23.5	1.0	0.32	ug/l	25.0	ND	94	65-130			
trans-1,2-Dichloroethene	21.5	1.0	0.30	ug/l	25.0	ND	86	65-130			
1,1-Dichloroethene	25.6	1.0	0.42	ug/l	25.0	ND	102	60-130			
2,2-Dichloropropane	27.3	1.0	0.34	ug/l	25.0	ND	109	60-145			
1,2-Dichloropropane	23.7	1.0	0.35	ug/l	25.0	ND	95	65-130			
cis-1,3-Dichloropropene	32.2	0.50	0.22	ug/l	25.0	ND	129	70-130			
trans-1,3-Dichloropropene	26.1	0.50	0.32	ug/l	25.0	ND	104	65-135			
1,1-Dichloropropene	26.2	1.0	0.28	ug/l	25.0	ND	105	70-135			

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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: IRF1437

Sampled: 06/17/08
Received: 06/17/08

METHOD BLANK/QC DATA

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

Batch: 8F23055 Extracted: 06/23/08

Matrix Spike Analyzed: 06/23/2008 (8F23055-MS1) — **Source: IRF1930-02**

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Ethylbenzene	25.9	1.0	0.25	ug/l	25.0	ND	104	65-130			
1,2-Dichloroethane	24.7	0.50	0.28	ug/l	25.0	0.340	97	60-140			
Hexachlorobutadiene	27.5	1.0	0.38	ug/l	25.0	ND	110	60-135			
2-Hexanone	20.6	6.0	2.6	ug/l	25.0	ND	82	25-140			
Isopropylbenzene	26.1	1.0	0.25	ug/l	25.0	ND	104	70-135			
p-Isopropyltoluene	27.3	1.0	0.28	ug/l	25.0	ND	109	65-130			
4-Methyl-2-pentanone (MIBK)	21.5	5.0	3.5	ug/l	25.0	ND	86	40-140			
Methylene chloride	22.8	1.0	0.95	ug/l	25.0	ND	91	50-135			
n-Propylbenzene	25.9	1.0	0.27	ug/l	25.0	ND	104	70-135			
Styrene	23.1	1.0	0.20	ug/l	25.0	ND	92	50-145			
1,1,1,2-Tetrachloroethane	29.0	1.0	0.27	ug/l	25.0	ND	116	65-140			
1,1,2,2-Tetrachloroethane	27.6	1.0	0.30	ug/l	25.0	ND	110	55-135			
Tetrachloroethene	25.6	1.0	0.32	ug/l	25.0	ND	102	65-130			
Toluene	25.3	1.0	0.36	ug/l	25.0	ND	101	70-125			
1,2,3-Trichlorobenzene	29.2	1.0	0.30	ug/l	25.0	0.310	115	60-135			
1,2,4-Trichlorobenzene	30.3	1.0	0.48	ug/l	25.0	ND	121	65-135			
1,1,1-Trichloroethane	24.7	1.0	0.30	ug/l	25.0	ND	99	65-140			
1,1,2-Trichloroethane	26.3	1.0	0.30	ug/l	25.0	ND	105	65-130			
Trichloroethene	27.1	1.0	0.26	ug/l	25.0	ND	108	65-125			
Trichlorofluoromethane	21.4	2.0	0.34	ug/l	25.0	ND	85	60-145			
1,2,3-Trichloropropane	26.4	1.0	0.40	ug/l	25.0	ND	105	55-135			
1,2,4-Trimethylbenzene	27.5	1.0	0.23	ug/l	25.0	ND	110	55-135			
1,3,5-Trimethylbenzene	26.9	1.0	0.26	ug/l	25.0	ND	108	70-130			
Vinyl acetate	24.0	6.0	1.0	ug/l	25.0	ND	96	40-150			
Vinyl chloride	24.3	0.50	0.40	ug/l	25.0	ND	97	45-140			
m,p-Xylenes	52.7	1.0	0.60	ug/l	50.0	ND	105	65-130			
o-Xylene	25.8	0.50	0.30	ug/l	25.0	ND	103	65-125			
Di-isopropyl Ether (DIPE)	21.0	2.0	0.25	ug/l	25.0	ND	84	60-140			
Ethyl tert-Butyl Ether (ETBE)	23.3	2.0	0.28	ug/l	25.0	ND	93	60-135			
Methyl-tert-butyl Ether (MTBE)	24.3	1.0	0.32	ug/l	25.0	ND	97	55-145			
tert-Amyl Methyl Ether (TAME)	24.1	2.0	0.33	ug/l	25.0	ND	97	60-140			
tert-Butanol (TBA)	139	25	6.5	ug/l	125	ND	111	65-140			
Surrogate: 4-Bromofluorobenzene	*22.3*			*ug/l*	*25.0*		*89*	*80-120*			
Surrogate: Dibromofluoromethane	*22.2*			*ug/l*	*25.0*		*89*	*80-120*			
Surrogate: Toluene-d8	*24.1*			*ug/l*	*25.0*		*96*	*80-120*			

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Attention: Michael Rendina

Project ID: Boeing C-6 Torrance (02/26/08)
1155.006
Report Number: IRF1437

Sampled: 06/17/08
Received: 06/17/08

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: 8F23055 Extracted: 06/23/08											
Matrix Spike Dup Analyzed: 06/23/2008 (8F23055-MSD1)						**Source: IRF1930-02**					
Acetone	27.3	10	4.5	ug/l	25.0	8.22	76	20-150	11	35	
Benzene	25.1	0.50	0.28	ug/l	25.0	ND	100	65-125	2	20	
Bromobenzene	27.7	1.0	0.27	ug/l	25.0	ND	111	70-125	2	20	
Bromochloromethane	25.8	1.0	0.40	ug/l	25.0	ND	103	65-135	1	25	
Bromodichloromethane	26.5	1.0	0.30	ug/l	25.0	ND	106	70-135	1	20	
Bromoform	25.2	1.0	0.40	ug/l	25.0	ND	101	55-135	1	25	
Bromomethane	24.2	1.0	0.42	ug/l	25.0	ND	97	55-145	3	25	
2-Butanone (MEK)	21.0	5.0	4.7	ug/l	25.0	ND	84	30-145	2	40	
n-Butylbenzene	27.3	1.0	0.37	ug/l	25.0	ND	109	65-135	3	20	
tert-Butylbenzene	28.0	1.0	0.22	ug/l	25.0	ND	112	65-130	4	20	
sec-Butylbenzene	27.3	1.0	0.25	ug/l	25.0	ND	109	70-125	4	20	
Carbon Disulfide	21.0	1.0	0.48	ug/l	25.0	ND	84	40-140	2	20	
Carbon tetrachloride	29.3	0.50	0.28	ug/l	25.0	ND	117	65-140	2	25	
Chlorobenzene	26.3	1.0	0.36	ug/l	25.0	ND	105	75-125	1	20	
Chloroethane	25.3	2.0	0.40	ug/l	25.0	ND	101	55-140	6	25	
Chloroform	25.3	1.0	0.33	ug/l	25.0	2.82	90	65-135	1	20	
Chloromethane	21.3	2.0	0.40	ug/l	25.0	0.420	84	45-145	4	25	
4-Chlorotoluene	26.8	1.0	0.29	ug/l	25.0	ND	107	70-135	3	20	
2-Chlorotoluene	26.2	1.0	0.28	ug/l	25.0	ND	105	65-135	3	20	
1,2-Dibromo-3-chloropropane	25.9	2.0	0.97	ug/l	25.0	ND	104	45-145	8	30	
Dibromochloromethane	25.8	1.0	0.40	ug/l	25.0	ND	103	65-140	0	25	
1,2-Dibromoethane (EDB)	25.4	1.0	0.40	ug/l	25.0	ND	102	70-130	2	25	
1,2-Dichlorobenzene	28.1	1.0	0.32	ug/l	25.0	ND	112	75-125	2	20	
1,3-Dichlorobenzene	27.8	1.0	0.35	ug/l	25.0	ND	111	75-125	3	20	
1,4-Dichlorobenzene	26.9	1.0	0.37	ug/l	25.0	ND	108	75-125	2	20	
Dichlorodifluoromethane	22.0	1.0	0.26	ug/l	25.0	ND	88	25-155	1	30	
1,1-Dichloroethane	23.5	1.0	0.40	ug/l	25.0	ND	94	65-130	2	20	
cis-1,2-Dichloroethene	24.0	1.0	0.32	ug/l	25.0	ND	96	65-130	2	20	
trans-1,2-Dichloroethene	22.3	1.0	0.30	ug/l	25.0	ND	89	65-130	4	20	
1,1-Dichloroethene	24.9	1.0	0.42	ug/l	25.0	ND	100	60-130	2	20	
2,2-Dichloropropane	27.2	1.0	0.34	ug/l	25.0	ND	109	60-145	0	25	
1,2-Dichloropropane	23.8	1.0	0.35	ug/l	25.0	ND	95	65-130	0	20	
cis-1,3-Dichloropropene	32.5	0.50	0.22	ug/l	25.0	ND	130	70-130	1	20	
trans-1,3-Dichloropropene	26.1	0.50	0.32	ug/l	25.0	ND	104	65-135	0	25	
1,1-Dichloropropene	26.8	1.0	0.28	ug/l	25.0	ND	107	70-135	2	20	

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Attention: Michael Rendina

Project ID: Boeing C-6 Torrance (02/26/08)
1155.006
Report Number: IRF1437

Sampled: 06/17/08
Received: 06/17/08

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: 8F23055 Extracted: 06/23/08											
Matrix Spike Dup Analyzed: 06/23/2008 (8F23055-MSD1)						**Source: IRF1930-02**					
Ethylbenzene	26.3	1.0	0.25	ug/l	25.0	ND	105	65-130	1	20	
1,2-Dichloroethane	24.2	0.50	0.28	ug/l	25.0	0.340	96	60-140	2	20	
Hexachlorobutadiene	28.5	1.0	0.38	ug/l	25.0	ND	114	60-135	4	20	
2-Hexanone	18.8	6.0	2.6	ug/l	25.0	ND	75	25-140	9	35	
Isopropylbenzene	26.8	1.0	0.25	ug/l	25.0	ND	107	70-135	3	20	
p-Isopropyltoluene	28.0	1.0	0.28	ug/l	25.0	ND	112	65-130	3	20	
4-Methyl-2-pentanone (MIBK)	20.3	5.0	3.5	ug/l	25.0	ND	81	40-140	6	35	
Methylene chloride	20.4	1.0	0.95	ug/l	25.0	ND	82	50-135	11	20	
n-Propylbenzene	26.7	1.0	0.27	ug/l	25.0	ND	107	70-135	3	20	
Styrene	21.7	1.0	0.20	ug/l	25.0	ND	87	50-145	6	30	
1,1,1,2-Tetrachloroethane	29.6	1.0	0.27	ug/l	25.0	ND	118	65-140	2	20	
1,1,2,2-Tetrachloroethane	27.0	1.0	0.30	ug/l	25.0	ND	108	55-135	2	30	
Tetrachloroethene	26.1	1.0	0.32	ug/l	25.0	ND	104	65-130	2	20	
Toluene	25.6	1.0	0.36	ug/l	25.0	ND	103	70-125	1	20	
1,2,3-Trichlorobenzene	30.2	1.0	0.30	ug/l	25.0	0.310	120	60-135	4	20	
1,2,4-Trichlorobenzene	30.9	1.0	0.48	ug/l	25.0	ND	124	65-135	2	20	
1,1,1-Trichloroethane	25.1	1.0	0.30	ug/l	25.0	ND	100	65-140	1	20	
1,1,2-Trichloroethane	26.4	1.0	0.30	ug/l	25.0	ND	106	65-130	0	25	
Trichloroethene	27.2	1.0	0.26	ug/l	25.0	ND	109	65-125	0	20	
Trichlorofluoromethane	22.0	2.0	0.34	ug/l	25.0	ND	88	60-145	3	25	
1,2,3-Trichloropropane	25.9	1.0	0.40	ug/l	25.0	ND	104	55-135	2	30	
1,2,4-Trimethylbenzene	28.1	1.0	0.23	ug/l	25.0	ND	112	55-135	2	25	
1,3,5-Trimethylbenzene	27.8	1.0	0.26	ug/l	25.0	ND	111	70-130	3	20	
Vinyl acetate	22.2	6.0	1.0	ug/l	25.0	ND	89	40-150	8	30	
Vinyl chloride	24.9	0.50	0.40	ug/l	25.0	ND	100	45-140	3	30	
m,p-Xylenes	53.4	1.0	0.60	ug/l	50.0	ND	107	65-130	1	25	
o-Xylene	26.6	0.50	0.30	ug/l	25.0	ND	107	65-125	3	20	
Di-isopropyl Ether (DIPE)	21.0	2.0	0.25	ug/l	25.0	ND	84	60-140	0	25	
Ethyl tert-Butyl Ether (ETBE)	22.8	2.0	0.28	ug/l	25.0	ND	91	60-135	2	25	
Methyl-tert-butyl Ether (MTBE)	24.1	1.0	0.32	ug/l	25.0	ND	96	55-145	1	25	
tert-Amyl Methyl Ether (TAME)	23.6	2.0	0.33	ug/l	25.0	ND	94	60-140	2	30	
tert-Butanol (TBA)	134	25	6.5	ug/l	125	ND	107	65-140	4	25	
Surrogate: 4-Bromofluorobenzene	*22.2*			*ug/l*	*25.0*		*89*	*80-120*			
Surrogate: Dibromofluoromethane	*22.1*			*ug/l*	*25.0*		*88*	*80-120*			
Surrogate: Toluene-d8	*24.2*			*ug/l*	*25.0*		*97*	*80-120*			

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BOE-C6-0188903

Avocet Environmental Inc.
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Project ID: Boeing C-6 Torrance (02/26/08)
1155.006
Report Number: IRF1437

Sampled: 06/17/08
Received: 06/17/08

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: 8F24012 Extracted: 06/24/08											
Blank Analyzed: 06/24/2008 (8F24012-BLK1)											
Acetone	ND	10	4.5	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							
2-Butanone (MEK)	ND	5.0	4.7	ug/l							
n-Butylbenzene	ND	1.0	0.37	ug/l							
tert-Butylbenzene	ND	1.0	0.22	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							
4-Chlorotoluene	ND	1.0	0.29	ug/l							
2-Chlorotoluene	ND	1.0	0.28	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							
1,2-Dichlorobenzene	ND	1.0	0.32	ug/l							
1,3-Dichlorobenzene	ND	1.0	0.35	ug/l							
1,4-Dichlorobenzene	ND	1.0	0.37	ug/l							
Dichlorodifluoromethane	ND	1.0	0.26	ug/l							
1,1-Dichloroethane	ND	1.0	0.40	ug/l							
cis-1,2-Dichloroethene	ND	1.0	0.32	ug/l							
trans-1,2-Dichloroethene	ND	1.0	0.30	ug/l							
1,1-Dichloroethene	ND	1.0	0.42	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							
trans-1,3-Dichloropropene	ND	0.50	0.32	ug/l							
1,1-Dichloropropene	ND	1.0	0.28	ug/l							

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Sampled: 06/17/08
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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: 8F24012 Extracted: 06/24/08											
Blank Analyzed: 06/24/2008 (8F24012-BLK1)											
Ethylbenzene	ND	1.0	0.25	ug/l							
1,2-Dichloroethane	ND	0.50	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							
4-Methyl-2-pentanone (MIBK)	ND	5.0	3.5	ug/l							
Methylene chloride	ND	1.0	0.95	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							
1,2,4-Trimethylbenzene	ND	1.0	0.23	ug/l							
1,3,5-Trimethylbenzene	ND	1.0	0.26	ug/l							
Vinyl acetate	ND	6.0	1.0	ug/l							
Vinyl chloride	ND	0.50	0.40	ug/l							
m,p-Xylenes	ND	1.0	0.60	ug/l							
o-Xylene	ND	0.50	0.30	ug/l							
Xylenes, Total	ND	1.0	0.90	ug/l							
Di-isopropyl Ether (DIPE)	ND	2.0	0.25	ug/l							
Ethyl tert-Butyl Ether (ETBE)	ND	2.0	0.28	ug/l							
Methyl-tert-butyl Ether (MTBE)	ND	1.0	0.32	ug/l							
tert-Amyl Methyl Ether (TAME)	ND	2.0	0.33	ug/l							
tert-Butanol (TBA)	ND	25	6.5	ug/l							

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BOE-C6-0188904

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)
1155.006
Report Number: IRF1437

Sampled: 06/17/08
Received: 06/17/08

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: 8F24012 Extracted: 06/24/08											
Blank Analyzed: 06/24/2008 (8F24012-BLK1)											
Surrogate: 4-Bromofluorobenzene	*22.9*			*ug/l*	*25.0*		*92*	*80-120*			
Surrogate: Dibromofluoromethane	*23.6*			*ug/l*	*25.0*		*94*	*80-120*			
Surrogate: Toluene-d8	*24.5*			*ug/l*	*25.0*		*98*	*80-120*			
LCS Analyzed: 06/24/2008 (8F24012-BS1)											
Acetone	22.6	10	4.5	ug/l	25.0		91	30-140			
Benzene	24.0	0.50	0.28	ug/l	25.0		96	70-120			
Bromobenzene	27.4	1.0	0.27	ug/l	25.0		110	75-120			
Bromochloromethane	27.2	1.0	0.40	ug/l	25.0		109	70-130			
Bromodichloromethane	27.8	1.0	0.30	ug/l	25.0		111	70-135			
Bromoform	24.7	1.0	0.40	ug/l	25.0		99	55-130			
Bromomethane	28.4	1.0	0.42	ug/l	25.0		114	65-140			
2-Butanone (MEK)	23.1	5.0	4.7	ug/l	25.0		92	40-140			
n-Butylbenzene	24.2	1.0	0.37	ug/l	25.0		97	70-130			
tert-Butylbenzene	25.5	1.0	0.22	ug/l	25.0		102	70-125			
sec-Butylbenzene	23.8	1.0	0.25	ug/l	25.0		95	70-125			
Carbon Disulfide	23.7	1.0	0.48	ug/l	25.0		95	50-130			
Carbon tetrachloride	30.9	0.50	0.28	ug/l	25.0		123	65-140			
Chlorobenzene	23.9	1.0	0.36	ug/l	25.0		96	75-120			
Chloroethane	26.0	2.0	0.40	ug/l	25.0		104	60-140			
Chloroform	25.6	1.0	0.33	ug/l	25.0		102	70-130			
Chloromethane	25.5	2.0	0.40	ug/l	25.0		102	50-140			
4-Chlorotoluene	25.6	1.0	0.29	ug/l	25.0		103	75-125			
2-Chlorotoluene	24.9	1.0	0.28	ug/l	25.0		100	70-125			
1,2-Dibromo-3-chloropropane	26.4	2.0	0.97	ug/l	25.0		106	50-135			
Dibromochloromethane	29.4	1.0	0.40	ug/l	25.0		118	70-140			
1,2-Dibromoethane (EDB)	25.4	1.0	0.40	ug/l	25.0		102	75-125			
1,2-Dichlorobenzene	26.4	1.0	0.32	ug/l	25.0		106	75-120			
1,3-Dichlorobenzene	27.0	1.0	0.35	ug/l	25.0		108	75-120			
1,4-Dichlorobenzene	24.6	1.0	0.37	ug/l	25.0		98	75-120			
Dichlorodifluoromethane	25.2	1.0	0.26	ug/l	25.0		101	35-155			
1,1-Dichloroethane	26.4	1.0	0.40	ug/l	25.0		106	70-125			
cis-1,2-Dichloroethene	23.6	1.0	0.32	ug/l	25.0		94	70-125			
trans-1,2-Dichloroethene	22.5	1.0	0.30	ug/l	25.0		90	70-125			
1,1-Dichloroethene	24.2	1.0	0.42	ug/l	25.0		97	70-125			
2,2-Dichloropropane	28.4	1.0	0.34	ug/l	25.0		114	65-140			

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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: IRF1437

Sampled: 06/17/08
Received: 06/17/08

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: 8F24012 Extracted: 06/24/08											
LCS Analyzed: 06/24/2008 (8F24012-BS1)											
1,2-Dichloropropane	25.3	1.0	0.35	ug/l	25.0		101	70-125			
cis-1,3-Dichloropropene	29.7	0.50	0.22	ug/l	25.0		119	75-125			
trans-1,3-Dichloropropene	29.9	0.50	0.32	ug/l	25.0		120	70-125			
1,1-Dichloropropene	26.0	1.0	0.28	ug/l	25.0		104	75-130			
Ethylbenzene	24.8	1.0	0.25	ug/l	25.0		99	75-125			
1,2-Dichloroethane	28.0	0.50	0.28	ug/l	25.0		112	60-140			
Hexachlorobutadiene	22.3	1.0	0.38	ug/l	25.0		89	65-135			
2-Hexanone	21.6	6.0	2.6	ug/l	25.0		86	45-140			
Isopropylbenzene	30.2	1.0	0.25	ug/l	25.0		121	75-130			
p-Isopropyltoluene	25.3	1.0	0.28	ug/l	25.0		101	75-125			
4-Methyl-2-pentanone (MIBK)	24.2	5.0	3.5	ug/l	25.0		97	45-140			
Methylene chloride	24.9	1.0	0.95	ug/l	25.0		100	55-130			
n-Propylbenzene	26.7	1.0	0.27	ug/l	25.0		107	75-130			
Styrene	26.6	1.0	0.20	ug/l	25.0		107	75-130			
1,1,1,2-Tetrachloroethane	28.7	1.0	0.27	ug/l	25.0		115	70-130			
1,1,2,2-Tetrachloroethane	26.4	1.0	0.30	ug/l	25.0		106	55-130			
Tetrachloroethene	26.0	1.0	0.32	ug/l	25.0		104	70-125			
Toluene	24.8	1.0	0.36	ug/l	25.0		99	70-120			
1,2,3-Trichlorobenzene	26.3	1.0	0.30	ug/l	25.0		105	65-125			
1,2,4-Trichlorobenzene	26.7	1.0	0.48	ug/l	25.0		107	70-135			
1,1,1-Trichloroethane	28.3	1.0	0.30	ug/l	25.0		113	65-135			
1,1,2-Trichloroethane	27.0	1.0	0.30	ug/l	25.0		108	70-125			
Trichloroethene	26.6	1.0	0.26	ug/l	25.0		106	70-125			
Trichlorofluoromethane	27.1	2.0	0.34	ug/l	25.0		108	65-145			
1,2,3-Trichloropropane	25.8	1.0	0.40	ug/l	25.0		103	60-130			
1,2,4-Trimethylbenzene	26.3	1.0	0.23	ug/l	25.0		105	75-125			
1,3,5-Trimethylbenzene	25.7	1.0	0.26	ug/l	25.0		103	75-125			
Vinyl acetate	27.8	6.0	1.0	ug/l	25.0		111	45-145			
Vinyl chloride	25.7	0.50	0.40	ug/l	25.0		103	55-135			
m,p-Xylenes	48.4	1.0	0.60	ug/l	50.0		97	75-125			
o-Xylene	25.8	0.50	0.30	ug/l	25.0		103	75-125			
Di-isopropyl Ether (DIPE)	25.6	2.0	0.25	ug/l	25.0		102	60-135			
Ethyl tert-Butyl Ether (ETBE)	27.4	2.0	0.28	ug/l	25.0		110	65-135			
Methyl-tert-butyl Ether (MTBE)	27.3	1.0	0.32	ug/l	25.0		109	60-135			
tert-Amyl Methyl Ether (TAME)	28.0	2.0	0.33	ug/l	25.0		112	60-135			

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Project Manager

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BOE-C6-0188905

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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: IRF1437

Sampled: 06/17/08
Received: 06/17/08

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: 8F24012 Extracted: 06/24/08											
LCS Analyzed: 06/24/2008 (8F24012-BS1)											
tert-Butanol (TBA)	144	25	6.5	ug/l	125		116	70-135			
Surrogate: 4-Bromofluorobenzene	*22.9*			*ug/l*	*25.0*		*92*	*80-120*			
Surrogate: Dibromofluoromethane	*24.1*			*ug/l*	*25.0*		*97*	*80-120*			
Surrogate: Toluene-d8	*24.4*			*ug/l*	*25.0*		*98*	*80-120*			
Matrix Spike Analyzed: 06/24/2008 (8F24012-MS1)						**Source: IRF2033-01**					
Acetone	26.0	10	4.5	ug/l	25.0	8.25	71	20-150			
Benzene	22.8	0.50	0.28	ug/l	25.0	ND	91	65-125			
Bromobenzene	26.3	1.0	0.27	ug/l	25.0	ND	105	70-125			
Bromochloromethane	25.4	1.0	0.40	ug/l	25.0	ND	101	65-135			
Bromodichloromethane	26.2	1.0	0.30	ug/l	25.0	ND	105	70-135			
Bromoform	23.8	1.0	0.40	ug/l	25.0	ND	95	55-135			
Bromomethane	24.4	1.0	0.42	ug/l	25.0	ND	98	55-145			
2-Butanone (MEK)	19.8	5.0	4.7	ug/l	25.0	ND	79	30-145			
n-Butylbenzene	23.9	1.0	0.37	ug/l	25.0	ND	96	65-135			
tert-Butylbenzene	24.6	1.0	0.22	ug/l	25.0	ND	98	65-130			
sec-Butylbenzene	23.0	1.0	0.25	ug/l	25.0	ND	92	70-125			
Carbon Disulfide	22.2	1.0	0.48	ug/l	25.0	ND	89	40-140			
Carbon tetrachloride	29.7	0.50	0.28	ug/l	25.0	ND	119	65-140			
Chlorobenzene	24.3	1.0	0.36	ug/l	25.0	ND	97	75-125			
Chloroethane	24.1	2.0	0.40	ug/l	25.0	ND	96	55-140			
Chloroform	24.2	1.0	0.33	ug/l	25.0	ND	97	65-135			
Chloromethane	24.0	2.0	0.40	ug/l	25.0	ND	96	45-145			
4-Chlorotoluene	25.4	1.0	0.29	ug/l	25.0	ND	102	70-135			
2-Chlorotoluene	24.4	1.0	0.28	ug/l	25.0	ND	98	65-135			
1,2-Dibromo-3-chloropropane	23.1	2.0	0.97	ug/l	25.0	ND	92	45-145			
Dibromochloromethane	29.0	1.0	0.40	ug/l	25.0	ND	116	65-140			
1,2-Dibromoethane (EDB)	24.6	1.0	0.40	ug/l	25.0	ND	99	70-130			
1,2-Dichlorobenzene	25.6	1.0	0.32	ug/l	25.0	ND	102	75-125			
1,3-Dichlorobenzene	25.8	1.0	0.35	ug/l	25.0	ND	103	75-125			
1,4-Dichlorobenzene	23.8	1.0	0.37	ug/l	25.0	ND	95	75-125			
Dichlorodifluoromethane	23.6	1.0	0.26	ug/l	25.0	ND	94	25-155			
1,1-Dichloroethane	24.4	1.0	0.40	ug/l	25.0	ND	98	65-130			
cis-1,2-Dichloroethene	24.5	1.0	0.32	ug/l	25.0	2.22	89	65-130			
trans-1,2-Dichloroethene	21.4	1.0	0.30	ug/l	25.0	ND	85	65-130			
1,1-Dichloroethene	22.8	1.0	0.42	ug/l	25.0	0.620	89	60-130			

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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: IRF1437

Sampled: 06/17/08
Received: 06/17/08

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: 8F24012 Extracted: 06/24/08											
Matrix Spike Analyzed: 06/24/2008 (8F24012-MS1)						**Source: IRF2033-01**					
2,2-Dichloropropane	28.3	1.0	0.34	ug/l	25.0	ND	113	60-145			
1,2-Dichloropropane	24.6	1.0	0.35	ug/l	25.0	ND	98	65-130			
cis-1,3-Dichloropropene	27.8	0.50	0.22	ug/l	25.0	ND	111	70-130			
trans-1,3-Dichloropropene	28.3	0.50	0.32	ug/l	25.0	ND	113	65-135			
1,1-Dichloropropene	24.5	1.0	0.28	ug/l	25.0	ND	98	70-135			
Ethylbenzene	25.4	1.0	0.25	ug/l	25.0	0.440	100	65-130			
1,2-Dichloroethane	26.2	0.50	0.28	ug/l	25.0	ND	105	60-140			
Hexachlorobutadiene	21.9	1.0	0.38	ug/l	25.0	ND	88	60-135			
2-Hexanone	19.0	6.0	2.6	ug/l	25.0	ND	76	25-140			
Isopropylbenzene	28.7	1.0	0.25	ug/l	25.0	ND	115	70-135			
p-Isopropyltoluene	24.4	1.0	0.28	ug/l	25.0	ND	97	65-130			
4-Methyl-2-pentanone (MIBK)	20.9	5.0	3.5	ug/l	25.0	ND	84	40-140			
Methylene chloride	23.6	1.0	0.95	ug/l	25.0	ND	94	50-135			
n-Propylbenzene	25.9	1.0	0.27	ug/l	25.0	ND	104	70-135			
Styrene	26.3	1.0	0.20	ug/l	25.0	ND	105	50-145			
1,1,1,2-Tetrachloroethane	28.6	1.0	0.27	ug/l	25.0	ND	114	65-140			
1,1,2,2-Tetrachloroethane	23.9	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	24.3	1.0	0.36	ug/l	25.0	0.810	94	70-125			
1,2,3-Trichlorobenzene	24.2	1.0	0.30	ug/l	25.0	ND	97	60-135			
1,2,4-Trichlorobenzene	25.2	1.0	0.48	ug/l	25.0	ND	101	65-135			
1,1,1-Trichloroethane	29.1	1.0	0.30	ug/l	25.0	1.86	109	65-140			
1,1,2-Trichloroethane	25.0	1.0	0.30	ug/l	25.0	ND	100	65-130			
Trichloroethene	38.4	1.0	0.26	ug/l	25.0	14.5	96	65-125			
Trichlorofluoromethane	25.8	2.0	0.34	ug/l	25.0	ND	103	60-145			
1,2,3-Trichloropropane	23.2	1.0	0.40	ug/l	25.0	ND	93	55-135			
1,2,4-Trimethylbenzene	25.0	1.0	0.23	ug/l	25.0	ND	100	55-135			
1,3,5-Trimethylbenzene	25.3	1.0	0.26	ug/l	25.0	ND	101	70-130			
Vinyl acetate	24.8	6.0	1.0	ug/l	25.0	ND	99	40-150			
Vinyl chloride	24.6	0.50	0.40	ug/l	25.0	ND	98	45-140			
m,p-Xylenes	50.5	1.0	0.60	ug/l	50.0	1.14	99	65-130			
o-Xylene	26.8	0.50	0.30	ug/l	25.0	ND	107	65-125			
Di-isopropyl Ether (DIPE)	24.2	2.0	0.25	ug/l	25.0	ND	97	60-140			
Ethyl tert-Butyl Ether (ETBE)	25.8	2.0	0.28	ug/l	25.0	ND	103	60-135			
Methyl-tert-butyl Ether (MTBE)	24.4	1.0	0.32	ug/l	25.0	ND	98	55-145			

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Project Manager

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BOE-C6-0188906

Avocet Environmental Inc.
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Attention: Michael Rendina

Project ID: Boeing C-6 Torrance (02/26/08)
1155.006
Report Number: IRF1437

Sampled: 06/17/08
Received: 06/17/08

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: 8F24012 Extracted: 06/24/08											
Matrix Spike Analyzed: 06/24/2008 (8F24012-MS1)						**Source: IRF2033-01**					
tert-Amyl Methyl Ether (TAME)	25.4	2.0	0.33	ug/l	25.0	ND	102	60-140			
tert-Butanol (TBA)	133	25	6.5	ug/l	125	ND	107	65-140			
Surrogate: 4-Bromofluorobenzene	*24.1*			*ug/l*	*25.0*		*97*	*80-120*			
Surrogate: Dibromofluoromethane	*23.6*			*ug/l*	*25.0*		*94*	*80-120*			
Surrogate: Toluene-d8	*24.2*			*ug/l*	*25.0*		*97*	*80-120*			
Matrix Spike Dup Analyzed: 06/24/2008 (8F24012-MSD1)						**Source: IRF2033-01**					
Acetone	27.8	10	4.5	ug/l	25.0	8.25	78	20-150	7	35	
Benzene	23.9	0.50	0.28	ug/l	25.0	ND	96	65-125	5	20	
Bromobenzene	26.5	1.0	0.27	ug/l	25.0	ND	106	70-125	1	20	
Bromochloromethane	25.7	1.0	0.40	ug/l	25.0	ND	103	65-135	1	25	
Bromodichloromethane	27.5	1.0	0.30	ug/l	25.0	ND	110	70-135	5	20	
Bromoform	23.3	1.0	0.40	ug/l	25.0	ND	93	55-135	2	25	
Bromomethane	24.7	1.0	0.42	ug/l	25.0	ND	99	55-145	1	25	
2-Butanone (MEK)	18.6	5.0	4.7	ug/l	25.0	ND	74	30-145	6	40	
n-Butylbenzene	24.1	1.0	0.37	ug/l	25.0	ND	96	65-135	1	20	
tert-Butylbenzene	25.9	1.0	0.22	ug/l	25.0	ND	104	65-130	5	20	
sec-Butylbenzene	23.9	1.0	0.25	ug/l	25.0	ND	96	70-125	4	20	
Carbon Disulfide	23.0	1.0	0.48	ug/l	25.0	ND	92	40-140	4	20	
Carbon tetrachloride	30.5	0.50	0.28	ug/l	25.0	ND	122	65-140	2	25	
Chlorobenzene	23.5	1.0	0.36	ug/l	25.0	ND	94	75-125	3	20	
Chloroethane	26.4	2.0	0.40	ug/l	25.0	ND	105	55-140	9	25	
Chloroform	25.2	1.0	0.33	ug/l	25.0	ND	101	65-135	4	20	
Chloromethane	24.4	2.0	0.40	ug/l	25.0	ND	98	45-145	2	25	
4-Chlorotoluene	24.9	1.0	0.29	ug/l	25.0	ND	100	70-135	2	20	
2-Chlorotoluene	23.2	1.0	0.28	ug/l	25.0	ND	93	65-135	5	20	
1,2-Dibromo-3-chloropropane	24.8	2.0	0.97	ug/l	25.0	ND	99	45-145	7	30	
Dibromochloromethane	28.3	1.0	0.40	ug/l	25.0	ND	113	65-140	2	25	
1,2-Dibromoethane (EDB)	24.2	1.0	0.40	ug/l	25.0	ND	97	70-130	2	25	
1,2-Dichlorobenzene	26.1	1.0	0.32	ug/l	25.0	ND	105	75-125	2	20	
1,3-Dichlorobenzene	25.9	1.0	0.35	ug/l	25.0	ND	104	75-125	0	20	
1,4-Dichlorobenzene	24.1	1.0	0.37	ug/l	25.0	ND	96	75-125	1	20	
Dichlorodifluoromethane	24.0	1.0	0.26	ug/l	25.0	ND	96	25-155	2	30	
1,1-Dichloroethane	25.5	1.0	0.40	ug/l	25.0	ND	102	65-130	4	20	
cis-1,2-Dichloroethene	24.5	1.0	0.32	ug/l	25.0	2.22	89	65-130	0	20	
trans-1,2-Dichloroethene	22.2	1.0	0.30	ug/l	25.0	ND	89	65-130	4	20	

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Project ID: Boeing C-6 Torrance (02/26/08)
1155.006
Report Number: IRF1437

Sampled: 06/17/08
Received: 06/17/08

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: 8F24012 Extracted: 06/24/08											
Matrix Spike Dup Analyzed: 06/24/2008 (8F24012-MSD1)						**Source: IRF2033-01**					
1,1-Dichloroethene	23.3	1.0	0.42	ug/l	25.0	0.620	91	60-130	2	20	
2,2-Dichloropropane	27.4	1.0	0.34	ug/l	25.0	ND	109	60-145	3	25	
1,2-Dichloropropane	25.9	1.0	0.35	ug/l	25.0	ND	104	65-130	5	20	
cis-1,3-Dichloropropene	28.8	0.50	0.22	ug/l	25.0	ND	115	70-130	4	20	
trans-1,3-Dichloropropene	30.0	0.50	0.32	ug/l	25.0	ND	120	65-135	6	25	
1,1-Dichloropropene	25.6	1.0	0.28	ug/l	25.0	ND	102	70-135	4	20	
Ethylbenzene	24.7	1.0	0.25	ug/l	25.0	0.440	97	65-130	3	20	
1,2-Dichloroethane	27.1	0.50	0.28	ug/l	25.0	ND	108	60-140	3	20	
Hexachlorobutadiene	22.2	1.0	0.38	ug/l	25.0	ND	89	60-135	2	20	
2-Hexanone	19.0	6.0	2.6	ug/l	25.0	ND	76	25-140	0	35	
Isopropylbenzene	30.0	1.0	0.25	ug/l	25.0	ND	120	70-135	4	20	
p-Isopropyltoluene	24.7	1.0	0.28	ug/l	25.0	ND	99	65-130	1	20	
4-Methyl-2-pentanone (MIBK)	22.0	5.0	3.5	ug/l	25.0	ND	88	40-140	5	35	
Methylene chloride	24.5	1.0	0.95	ug/l	25.0	ND	98	50-135	4	20	
n-Propylbenzene	26.1	1.0	0.27	ug/l	25.0	ND	104	70-135	1	20	
Styrene	26.1	1.0	0.20	ug/l	25.0	ND	104	50-145	1	30	
1,1,1,2-Tetrachloroethane	28.1	1.0	0.27	ug/l	25.0	ND	112	65-140	2	20	
1,1,2,2-Tetrachloroethane	25.2	1.0	0.30	ug/l	25.0	ND	101	55-135	5	30	
Tetrachloroethene	25.6	1.0	0.32	ug/l	25.0	ND	102	65-130	1	20	
Toluene	25.2	1.0	0.36	ug/l	25.0	0.810	98	70-125	4	20	
1,2,3-Trichlorobenzene	25.7	1.0	0.30	ug/l	25.0	ND	103	60-135	6	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	29.4	1.0	0.30	ug/l	25.0	1.86	110	65-140	1	20	
1,1,2-Trichloroethane	26.4	1.0	0.30	ug/l	25.0	ND	106	65-130	5	25	
Trichloroethene	39.4	1.0	0.26	ug/l	25.0	14.5	100	65-125	2	20	
Trichlorofluoromethane	26.6	2.0	0.34	ug/l	25.0	ND	106	60-145	3	25	
1,2,3-Trichloropropane	24.5	1.0	0.40	ug/l	25.0	ND	98	55-135	6	30	
1,2,4-Trimethylbenzene	25.6	1.0	0.23	ug/l	25.0	ND	102	55-135	2	25	
1,3,5-Trimethylbenzene	25.2	1.0	0.26	ug/l	25.0	ND	101	70-130	0	20	
Vinyl acetate	26.2	6.0	1.0	ug/l	25.0	ND	105	40-150	5	30	
Vinyl chloride	24.9	0.50	0.40	ug/l	25.0	ND	100	45-140	1	30	
m,p-Xylenes	49.0	1.0	0.60	ug/l	50.0	1.14	96	65-130	3	25	
o-Xylene	26.5	0.50	0.30	ug/l	25.0	ND	106	65-125	1	20	
Di-isopropyl Ether (DIPE)	25.0	2.0	0.25	ug/l	25.0	ND	100	60-140	3	25	
Ethyl tert-Butyl Ether (ETBE)	26.3	2.0	0.28	ug/l	25.0	ND	105	60-135	2	25	

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Project ID: Boeing C-6 Torrance (02/26/08)
1155.006
Report Number: IRF1437

Sampled: 06/17/08
Received: 06/17/08

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: 8F24012 Extracted: 06/24/08											
Matrix Spike Dup Analyzed: 06/24/2008 (8F24012-MSD1)						**Source: IRF2033-01**					
Methyl-tert-butyl Ether (MTBE)	25.7	1.0	0.32	ug/l	25.0	ND	103	55-145	5	25	
tert-Amyl Methyl Ether (TAME)	26.4	2.0	0.33	ug/l	25.0	ND	106	60-140	4	30	
tert-Butanol (TBA)	129	25	6.5	ug/l	125	ND	103	65-140	3	25	
Surrogate: 4-Bromofluorobenzene	*23.8*			*ug/l*	*25.0*		*95*	*80-120*			
Surrogate: Dibromofluoromethane	*24.0*			*ug/l*	*25.0*		*96*	*80-120*			
Surrogate: Toluene-d8	*24.6*			*ug/l*	*25.0*		*99*	*80-120*			

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Project ID: Boeing C-6 Torrance (02/26/08)
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METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8F17053 Extracted: 06/17/08											
Blank Analyzed: 06/17/2008 (8F17053-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: 06/17/2008 (8F17053-BS1)											
Chloride	5.34	0.50	0.25	mg/l	5.00		107	90-110			
Nitrate-NO3	5.19	0.50	0.25	mg/l	5.00		104	90-110			
Nitrite-NO2	5.30	0.50	0.30	mg/l	5.00		106	90-110			
Sulfate	10.5	0.50	0.20	mg/l	10.0		105	90-110			
Matrix Spike Analyzed: 06/17/2008 (8F17053-MS1)						**Source: IRF1392-01**					
Chloride	501	20	10	mg/l	50.0	467	68	80-120			*MHA*
Nitrate-NO3	951	20	10	mg/l	50.0	933	36	80-120			*MHA*
Nitrite-NO2	58.0	20	12	mg/l	50.0	ND	116	80-120			
Sulfate	1760	20	8.0	mg/l	100	1730	32	80-120			*MHA*
Matrix Spike Dup Analyzed: 06/17/2008 (8F17053-MSD1)						**Source: IRF1392-01**					
Chloride	501	20	10	mg/l	50.0	467	68	80-120	0	20	*MHA*
Nitrate-NO3	952	20	10	mg/l	50.0	933	37	80-120	0	20	*MHA*
Nitrite-NO2	63.4	20	12	mg/l	50.0	ND	127	80-120	9	20	*M1*
Sulfate	1750	20	8.0	mg/l	100	1730	21	80-120	1	20	*MHA*
Batch: 8F18054 Extracted: 06/18/08											
Blank Analyzed: 06/18/2008 (8F18054-BLK1)											
Alkalinity as CaCO3	ND	2.0	2.0	mg/l							

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1155.006
Report Number: IRF1437

Sampled: 06/17/08
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METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8F18054 Extracted: 06/18/08											
Duplicate Analyzed: 06/18/2008 (8F18054-DUP1)						**Source: IRF1437-01**					
Alkalinity as CaCO3	190	2.0	2.0	mg/l		192			1	20	
Reference Analyzed: 06/18/2008 (8F18054-SRM1)											
Alkalinity as CaCO3	344	2.0	2.0	mg/l	339		101	90-110			
Batch: 8F18058 Extracted: 06/18/08											
Blank Analyzed: 06/18/2008 (8F18058-BLK1)											
Nitrate-NO3	ND	0.50	0.25	mg/l							
Nitrite-NO2	ND	0.50	0.30	mg/l							
LCS Analyzed: 06/18/2008 (8F18058-BS1)											
Nitrate-NO3	5.25	0.50	0.25	mg/l	5.00		105	90-110			
Nitrite-NO2	4.79	0.50	0.30	mg/l	5.00		96	90-110			
Matrix Spike Analyzed: 06/18/2008 (8F18058-MS1)						**Source: IRF1403-01**					
Nitrate-NO3	72.7	10	5.0	mg/l	50.0	20.8	104	80-120			
Nitrite-NO2	50.6	10	6.0	mg/l	50.0	ND	101	80-120			
Matrix Spike Analyzed: 06/18/2008 (8F18058-MS2)						**Source: IRF1403-07**					
Nitrate-NO3	89.3	10	5.0	mg/l	50.0	38.0	103	80-120			
Nitrite-NO2	50.2	10	6.0	mg/l	50.0	ND	100	80-120			
Matrix Spike Dup Analyzed: 06/18/2008 (8F18058-MSD1)						**Source: IRF1403-01**					
Nitrate-NO3	71.1	10	5.0	mg/l	50.0	20.8	101	80-120	2	20	
Nitrite-NO2	48.5	10	6.0	mg/l	50.0	ND	97	80-120	4	20	

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INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8F20051 Extracted: 06/20/08											
Blank Analyzed: 06/20/2008 (8F20051-BLK1)											
Total Dissolved Solids	ND	10	10	mg/l							
LCS Analyzed: 06/20/2008 (8F20051-BS1)											
Total Dissolved Solids	956	10	10	mg/l	1000		96	90-110			
Duplicate Analyzed: 06/20/2008 (8F20051-DUP1)						**Source: IRF1445-05**					
Total Dissolved Solids	5920	10	10	mg/l		6000			1	10	

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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: 8F18125 Extracted: 06/18/08											
Blank Analyzed: 06/18/2008 (8F18125-BLK1)											
Total Organic Carbon	ND	1.0	0.50	mg/l							
LCS Analyzed: 06/18/2008 (8F18125-BS1)											
Total Organic Carbon	10.8	1.0	0.50	mg/l	10.0		108	90-110			
Matrix Spike Analyzed: 06/18/2008 (8F18125-MS1)						**Source: IRF1528-18**					
Total Organic Carbon	6.32	1.0	0.50	mg/l	5.00	1.82	90	80-120			
Matrix Spike Dup Analyzed: 06/18/2008 (8F18125-MSD1)						**Source: IRF1528-18**					
Total Organic Carbon	6.71	1.0	0.50	mg/l	5.00	1.82	98	80-120	6	20	
Batch: 8F19093 Extracted: 06/19/08											
Blank Analyzed: 06/19/2008 (8F19093-BLK1)											
Total Organic Carbon	ND	1.0	0.50	mg/l							
LCS Analyzed: 06/19/2008 (8F19093-BS1)											
Total Organic Carbon	9.28	1.0	0.50	mg/l	10.0		93	90-110			
Matrix Spike Analyzed: 06/19/2008 (8F19093-MS1)						**Source: IRF1437-03**					
Total Organic Carbon	7.36	1.0	0.50	mg/l	5.00	1.55	116	80-120			
Matrix Spike Dup Analyzed: 06/19/2008 (8F19093-MSD1)						**Source: IRF1437-03**					
Total Organic Carbon	7.37	1.0	0.50	mg/l	5.00	1.55	116	80-120	0	20	

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METHOD BLANK/QC DATA

Volatile Fatty Acids by Ion Chromatography

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: M080626010 Extracted: 06/26/08											
LCS Analyzed: 07/07/2008 (M080626010-LCS)						**Source:**					
Acetic Acid	1.8	0.07	0.04	mg/L	2		90	70-130		20	
Butyric Acid	1.8	0.07	0.06	mg/L	2		90	70-130		20	
Hexanoic Acid	1.8	0.1	0.08	mg/L	2		90	70-130		20	
i-Hexanoic Acid	1.9	0.1	0.08	mg/L	2		95	70-130		20	
i-Pentanoic Acid	1.9	0.07	0.07	mg/L	2		95	70-130		20	
Lactic Acid and HIBA	1.7	0.1	0.07	mg/L	2		85	70-130		20	
Pentanoic Acid	1.8	0.07	0.07	mg/L	2		90	70-130		20	
Propionic Acid	1.7	0.07	0.05	mg/L	2		85	70-130		20	
Pyruvic Acid	1.7	0.07	0.07	mg/L	2		85	70-130		20	
Blank Analyzed: 07/07/2008 (M080626010-MB)						**Source:**					
Acetic Acid	ND	0.07	0.04	mg/L				70-130		0	*U*
Butyric Acid	ND	0.07	0.06	mg/L				70-130		0	*U*
Hexanoic Acid	ND	0.1	0.08	mg/L				70-130		0	*U*
i-Hexanoic Acid	ND	0.1	0.08	mg/L				70-130		0	*U*
i-Pentanoic Acid	ND	0.07	0.07	mg/L				70-130		0	*U*
Lactic Acid and HIBA	ND	0.1	0.07	mg/L				70-130		0	*U*
Pentanoic Acid	ND	0.07	0.07	mg/L				70-130		0	*U*
Propionic Acid	ND	0.07	0.05	mg/L				70-130		0	*U*
Pyruvic Acid	ND	0.07	0.07	mg/L				70-130		0	*U*
Matrix Spike Analyzed: 07/04/2008 (M080626010-MS)						**Source: P0806295-01**					
Hexanoic Acid	3.1	0.1	0.08	mg/L	2	0.18	146	70-130		30	*M*
i-Hexanoic Acid	2.7	0.1	0.08	mg/L	2	0.66	102	70-130		30	
i-Pentanoic Acid	10	0.07	0.07	mg/L	2	9.5	25	70-130		30	*M*
Pentanoic Acid	3.8	0.07	0.07	mg/L	2	1.9	95	70-130		30	
Pyruvic Acid	5.4	0.07	0.07	mg/L	2	4.2	60	70-130		30	*M*

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BOE-C6-0188910

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Project ID: Boeing C-6 Torrance (02/26/08)
1155.006
Report Number: IRF1437

Sampled: 06/17/08
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METHOD BLANK/QC DATA

Volatile Fatty Acids by Ion Chromatography

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: M080626010 Extracted: 06/26/08											
Matrix Spike Dup Analyzed: 07/04/2008 (M080626010-MSD)						**Source: P0806295-01**					
Hexanoic Acid	2.8	0.1	0.08	mg/L	2	0.18	131	70-130	10	40	*M*
i-Hexanoic Acid	2.6	0.1	0.08	mg/L	2	0.66	97	70-130	4	40	
i-Pentanoic Acid	11	0.07	0.07	mg/L	2	9.5	75	70-130	10	40	*M*
Pentanoic Acid	3.9	0.07	0.07	mg/L	2	1.9	100	70-130	3	40	
Pyruvic Acid	5.7	0.07	0.07	mg/L	2	4.2	75	70-130	5	40	*M*
Batch: M080709033 Extracted: 07/07/08											
LCS Analyzed: 07/07/2008 (M080709033-LCS)						**Source:**					
i-Pentanoic Acid	2.2	0.07	0.07	mg/L	2		110	70-130		20	
Pentanoic Acid	2.1	0.07	0.07	mg/L	2		105	70-130		20	
Pyruvic Acid	2.1	0.07	0.07	mg/L	2		105	70-130		20	
Blank Analyzed: 07/07/2008 (M080709033-MB)						**Source:**					
i-Pentanoic Acid	ND	0.07	0.07	mg/L				70-130		0	*U*
Pentanoic Acid	ND	0.07	0.07	mg/L				70-130		0	*U*
Pyruvic Acid	ND	0.07	0.07	mg/L				70-130		0	*U*
Batch: M080709036 Extracted: 07/07/08											
LCS Analyzed: 07/07/2008 (M080709036-LCS)						**Source:**					
Acetic Acid	2.3	0.07	0.04	mg/L	2		115	70-130		20	
Butyric Acid	2.1	0.07	0.06	mg/L	2		105	70-130		20	
Propionic Acid	2.2	0.07	0.05	mg/L	2		110	70-130		20	
Blank Analyzed: 07/07/2008 (M080709036-MB)						**Source:**					
Acetic Acid	ND	0.07	0.04	mg/L				70-130		0	*U*
Butyric Acid	ND	0.07	0.06	mg/L				70-130		0	*U*
Propionic Acid	ND	0.07	0.05	mg/L				70-130		0	*U*

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 (02/26/08)
1155.006
Report Number: IRF1437

Sampled: 06/17/08
Received: 06/17/08

METHOD BLANK/QC DATA

Volatile Fatty Acids by Ion Chromatography

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: M080709037 Extracted: 07/07/08											
LCS Analyzed: 07/07/2008 (M080709037-LCS)						**Source:**					
Acetic Acid	2.3	0.07	0.04	mg/L	2		115	70-130		20	
Lactic Acid and HIBA	2.4	0.1	0.07	mg/L	2		120	70-130		20	
Blank Analyzed: 07/07/2008 (M080709037-MB)						**Source:**					
Acetic Acid	ND	0.07	0.04	mg/L				70-130		0	*U*
Lactic Acid and HIBA	ND	0.1	0.07	mg/L				70-130		0	*U*

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Project Manager

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BOE-C6-0188911

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: IRF1437

Sampled: 06/17/08
Received: 06/17/08

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: 080623GC8A Extracted: 06/23/08											
LCS Dup Analyzed: 06/23/2008 (080623GC8A2BD)					**Source: 080623GC8A2BS**						
Methane	570	1.0	0.39	ug/L	654	0	86	70-130	5	30	
Ethane	1100	1.0	0.50	ug/L	1227	0	88	70-130	4	30	
Ethylene	940	1.0	0.33	ug/L	1145	0	82	70-130	4	30	
LCS Analyzed: 06/23/2008 (080623GC8A2BS)					**Source:**						
Methane	590	1.0	0.39	ug/L	654	0	91	70-130			
Ethane	1100	1.0	0.50	ug/L	1227	0	92	70-130			
Ethylene	980	1.0	0.33	ug/L	1145	0	86	70-130			
Blank Analyzed: 06/23/2008 (080623GC8A2LB)					**Source:**						
Methane	0.53	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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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: IRF1437

Sampled: 06/17/08
Received: 06/17/08

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: 06/24/08											
Blank Analyzed: 06/24/2008 (bvcA negative)						**Source: vcrA negative**					
bvcA	ND	50		2gene copies/L grounc				-			
Matrix spike Analyzed: 06/24/2008 (bvcA positive)						**Source: vcrA positive**					
bvcA	Positive	50		2gene copies/L grounc				-			
Blank Analyzed: 06/24/2008 (tceA negative)						**Source: tceA negative**					
tceA	ND	50		2gene copies/L grounc				-			
Matrix spike Analyzed: 06/24/2008 (tceA positive)						**Source: tceA positive**					
tceA	Positive	50		2gene copies/L grounc				-			
Blank Analyzed: 06/24/2008 (vcrA negative)						**Source: vcrA negative**					
vcrA	ND	50		2gene copies/L grounc				-			
Matrix spike Analyzed: 06/24/2008 (vcrA positive)						**Source: vcrA positive**					
vcrA	Positive	50		2gene copies/L grounc				-			

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BOE-C6-0188912

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: IRF1437

Sampled: 06/17/08
Received: 06/17/08

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: 06/23/08											
Blank Analyzed: 06/23/2008 ((-) PCR)						**Source: (-) PCR**					
16s rRNA	ND	NA	N/A	NONE				-			
Matrix spike Analyzed: 06/23/2008 ((+) PCR)						**Source: (+) PCR**					
16s rRNA	Positive	NA	N/A	NONE				-			

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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: IRF1437

Sampled: 06/17/08
Received: 06/17/08

DATA QUALIFIERS AND DEFINITIONS

A-01	Sample can not be homogenized see RR's
B	Analyte also detected in the Method Blank
BRL	Below Reporting Limits. The target is present in the sample, but is below the reporting limit
C	Calibration Verification recovery was above the method control limit for this analyte. Analyte not detected, data not impacted.
J	Amount below RL and equal to or above MDL
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).
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).
ND	Non Detect. Target if present is below the detection limit of the assay
P-HS	Sample container contained headspace.
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.

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Project Manager

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BOE-C6-0188913

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: IRF1437

Sampled: 06/17/08
Received: 06/17/08

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
SM2540C	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: IRF1437-01, IRF1437-02, IRF1437-03, IRF1437-04, IRF1437-05

Idaho State University - Dept. of Bio Sci - MRCF

650 Memorial Drive - Pocatello, ID 83209

Analysis Performed: DHC Assay
Samples: IRF1437-01, IRF1437-02, IRF1437-03, IRF1437-04, IRF1437-05

ISU Molecular

Method Performed: Nested qPCR TaqMan assay
Samples: IRF1437-01, IRF1437-03

Method Performed: qPCR TaqMan assay
Samples: IRF1437-01, IRF1437-02, IRF1437-03, IRF1437-04, IRF1437-05

Method Performed: Universal Bacterial PCR
Samples: IRF1437-01, IRF1437-02, IRF1437-03, IRF1437-04, IRF1437-05

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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: IRF1437

Sampled: 06/17/08
Received: 06/17/08

Microseeps-SUB

220 William Pitt Way - Pittsburgh, PA 15238

Method Performed: AM23G Acetic Acid
Samples: IRF1437-01, IRF1437-02, IRF1437-03, IRF1437-04, IRF1437-05

Method Performed: AM23G Butyric Acid
Samples: IRF1437-01, IRF1437-02, IRF1437-03, IRF1437-04, IRF1437-05

Method Performed: AM23G Hexanoic Acid
Samples: IRF1437-01, IRF1437-02, IRF1437-03, IRF1437-04, IRF1437-05

Method Performed: AM23G i-Hexanoic Acid
Samples: IRF1437-01, IRF1437-02, IRF1437-03, IRF1437-04, IRF1437-05

Method Performed: AM23G i-Pentanoic Acid
Samples: IRF1437-01, IRF1437-02, IRF1437-03, IRF1437-04, IRF1437-05

Method Performed: AM23G Lactic Acid and HIBA
Samples: IRF1437-01, IRF1437-02, IRF1437-03, IRF1437-04, IRF1437-05

Method Performed: AM23G Pentanoic Acid
Samples: IRF1437-01, IRF1437-02, IRF1437-03, IRF1437-04, IRF1437-05

Method Performed: AM23G Propionic Acid
Samples: IRF1437-01, IRF1437-02, IRF1437-03, IRF1437-04, IRF1437-05

Method Performed: AM23G Pyruvic Acid
Samples: IRF1437-01, IRF1437-02, IRF1437-03, IRF1437-04, IRF1437-05

TestAmerica Irvine

Trupti Mistry
Project Manager

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BOE-C6-0188914

Joseph Doak

From: David Lieberman [dlieberman@avocetenv.com]
Sent: Thursday, June 19, 2008 9:33 AM
To: Joseph Doak
Cc: Michael Rendina; datamanager
Subject: RE: IRF1567
Attachments: COC_AVO20080617C and AVO20080618B-revised.pdf

Joe,

Thanks, here are the amended chains with the added analyses. As I mentioned on the phone earlier, we will need to add TDS analysis (EPA160.1) to the following samples:

TMW_07_WG20080617_01	6/17/2008 13:47	Chain number AVO20080617C / IRF1437
WCC_12S_WG20080617_01	6/17/2008 7:58	Chain number AVO20080617C / IRF1437
AW0055UB_WG20080618_01	6/18/2008 9:05	Chain number AVO20080618B / IRF1567

If you have any questions, don't hesitate to call.

Thanks,

David Lieberman
Avocet Environmental, Inc.
16 Technology Drive, Suite 154
Irvine, CA 92618
Phone: 949-296-0977x107
Mobile: 949-274-3449

From: Joseph Doak [mailto:Joseph.Doak@testamericainc.com]
Sent: Thursday, June 19, 2008 9:25 AM
To: David Lieberman
Subject: IRF1567

David, Here is the COC for sample date 6/18/08

Thank you,
Joe

JOSEPH DOAK
Project Manager

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

17461 Derian Avenue, Suite 100
Irvine, CA 92614
Tel 949.261.1022 | Fax 949.260.3297
www.testamericainc.com

Confidentiality Notice: The information contained in this message is intended only for the use of the

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

Sheet 1 of 1 IRF1437 Boeing CoC No. AVO20080617C

CHAIN OF CUSTODY RECORD

Project Information:

Site Name	Boeing Former C-6 Facility, Monthly WDR Sampling, June 2008
Site Address	Los Angeles, CA
Project No.	1155.006
Project Manager	Michael Rendina
Sampled By	Brian Bereumian
Turn-Around-Time	Standard TAT

Analyses

Sample Identification	Sample Date	Sample Time	Matrix	No. of Cntnrs.	Lab I.D. Number	VOCs EPA 8260B	TOC EPA 9060 Modified	Volatile Fatty Acids IC Method 8M23G (Microseeps)	Dissolved Hydrocarbon Gases (DHGs) Methane, Ethane, Ethene - RSK 175	Alkalinity EPA 310.1	Anions (NO3, NO2, Cl, SO4) EPA 300.3	DHC PCR (NorthWind) 24 HR HTII	Total Dissolved Solids, EPA 160.1	Comments
WCC_12S_WG20080617_01	6-17-08	07:58	Water	12		X	X	X	X	X	X	X	X	
AW0055UB_WG20080617_01		11:05	Water	12		X	X	X	X	X	X	X		
TMW_07_WG20080617_01		13:47	Water	12		X	X	X	X	X	X	X	X	
AW0067UB_WG20080617_01		12:25	Water	12		X	X	X	X	X	X	X		
AW0073C_WG20080617_01		9:33	Water	12		X	X	X	X	X	X	X		
TB_AVO20080617_0001		—	Water	3		X								
EB_AVO20080617_01		13:25	Water	3		X								

48HR HT for NO_3

Please forward VFA & qPCR analyses to identified laboratories ASAP.

Relinquished by: Avocet Env.
Printed Name: Brian Bereumian Date: 6/17/08
Signature: Brian Bereumian Time: 1437
Printed Name: Vince Vadilla Date: 6/17/08
Signature: Vince Vadilla Time: 1443
Printed Name: Date:
Signature: Time:

Company: Avocet Environmental, Inc.

Received by:
Printed Name: Vince Vadilla Date: 6/17/08
Signature: Vince Vadilla Time: 1407
Printed Name: Hanna Ell Date: 6-17-08
Signature: Hanna Ell Time: 1443
Printed Name: Date:
Signature: Time:

Company: 4-2C

Sample Receipt
Total Containers
Temperature °C °F
COC Seal (Y/N/NA)

Billing Information
Bill To: Michael Rendina, P.G.
AVOCET ENVIRONMENTAL, INC.
16 Technology Drive, Suite 154
Irvine, CA 92618-2327

Special Instructions
DHC PCR Analyses require overnight delivery to NorthWind in Pittsburgh, PA
Primary DHG analyses will continue to be analyzed by ATL.
Please bill to Avocet. Please report electronically in accordance with Boeing standards. If any questions, please call Mike Rendina @ (949) 296 0977 Ext.103

BOE-C6-0188915

AVOCET ENVIRONMENTAL, INC.

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

Sheet 1 of 1 IRF1437 Boeing CoC No. AVO20080617C

CHAIN OF CUSTODY RECORD

Project Information:

Site Name	Boeing Former C-6 Facility, Monthly WDR Sampling, June 2008
Site Address	Los Angeles, CA
Project No.	1155.006
Project Manager	Michael Rendina
Sampled By	Brian Barsumian
Turn-Around-Time	Standard TAT

Analyses

Sample Identification	Sample Date	Sample Time	Matrix	No. of Cntnrs.	Lab I.D. Number	VOCs EPA 8260B	TOC EPA 9060 Modified	Volatile Fatty Acids IC Method 8M23G (Microseeps)	Dissolved Hydrocarbon Gases (DHGs) Methane, Ethane, Ethene - RSK 175	Alkalinity EPA 310.1	Anions (NO3, NO2, Cl, SO4) EPA 300.3	DHC PCR (NorthWind) 24 HR HTII	Comments
WCC_12S_WG20080617_01	6-17-08	07:58	Water	12		X	X	X	X	X	X	X	
AW0066UB_WG20080617_01		11:05	Water	12		X	X	X	X	X	X	X	
TMW_07_WG20080617_01		13:47	Water	12		X	X	X	X	X	X	X	
AW0067UB_WG20080617_01		12:25	Water	12		X	X	X	X	X	X	X	
AW0073C_WG20080617_01		9:33	Water	12		X	X	X	X	X	X	X	
TB_AV20080617_01		—	Water	3		X							
EB_AV20080617_01		13:25	Water	3		X							

48HR HT for NO_3

Please forward VFA & qPCR analyses to identified laboratories ASAP.

Relinquished by: Avocet Env.
Printed Name: Brian Barsumian Date: 6/17/08
Signature: Brian Barsumian Time: 1407
Printed Name: Vince Padilla Date: 6/17/08
Signature: Vince Padilla Time: 1443
Printed Name: Date:
Signature: Time:

Company: Avocet Environmental, Inc.

Received by:
Printed Name: Vince Padilla Date: 6/17/08
Signature: Vince Padilla Time: 1407
Printed Name: Hanatea El Date: 6-17-08
Signature: Hanatea El Time: 1443
Printed Name: Date:
Signature: Time:

Company: 4-2C

Sample Receipt
Total Containers
Temperature °C °F
COC Seal (Y/N/NA)

Billing Information
Bill To: Michael Rendina, P.G.
AVOCET ENVIRONMENTAL, INC.
16 Technology Drive, Suite 154
Irvine, CA 92618-2327

Special Instructions
DHC PCR Analyses require overnight delivery to NorthWind in Pittsburgh, PA
Primary DHG analyses will continue to be analyzed by ATL
Please bill to Avocet. Please report electronically in accordance with Boeing standards. If any questions, please call Mike Rendina @ (949) 296 0977 Ext.103

040

AirTECHNOLOGY Laboratories, Inc.

July 1, 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: IRF1437
Lab Number: A8061804-01/05

Enclosed are results for sample(s) received 6/18/08 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.

JUN. 19. 2008 9:12AM DEL MAR ANALYTICAL NO. 005 P. 1

A8061804-01/5

SUBCONTRACT ORDER

TestAmerica Irvine

IRF1437

REVISED

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: IRF1437-01	Water		Sampled: 06/17/08 07:58	-01
Diss. Gasses-OUT	mg/l	06/27/08	07/01/08 07:58	sub=ATL;RL=1-C2H4,C2H6,CH4,Elmnt EDD,Boeing,Jflags
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: IRF1437-02	Water		Sampled: 06/17/08 11:05	-02
Diss. Gasses-OUT	mg/l	06/27/08	07/01/08 11:05	sub=ATL;RL=1-C2H4,C2H6,CH4,Elmnt EDD,Boeing,Jflags
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: IRF1437-03	Water		Sampled: 06/17/08 13:47	-03
Diss. Gasses-OUT	mg/l	06/27/08	07/01/08 13:47	sub=ATL;RL=1-C2H4,C2H6,CH4,Elmnt EDD,Boeing,Jflags
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: IRF1437-04	Water		Sampled: 06/17/08 12:25	-04
Diss. Gasses-OUT	mg/l	06/27/08	07/01/08 12:25	sub=ATL;RL=1-C2H4,C2H6,CH4,Elmnt EDD,Boeing,Jflags
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: IRF1437-05	Water		Sampled: 06/17/08 09:33	-05
Diss. Gasses-OUT	mg/l	06/27/08	07/01/08 09:33	sub=ATL;RL=1-C2H4,C2H6,CH4,Elmnt EDD,Boeing,Jflags
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
		Yolanda DeLaCruz	
Released By	Date/Time	Received By	Date/Time

Client: TestAmerica
Attn: Trupti Mistry

Client's Project: IRF1437
Date Received: 6/18/2008
Matrix: Water
Units: ug/L

Dissolved Gases by EPA Procedure RSKSOP-175

Lab No.:			A8061804-01		A8061804-02		A8061804-03		A8061804-04		A8061804-05	
Client Sample I.D.:			IRF1437-01		IRF1437-02		IRF1437-03		IRF1437-04		IRF1437-05	
Date Sampled:			6/17/2008		6/17/2008		6/17/2008		6/17/2008		6/17/2008	
Date Analyzed:			6/23/2008		6/23/2008		6/23/2008		6/23/2008		6/23/2008	
Analyst Initials:			DT		DT		DT		DT		DT	
Data File:			23jun013		23jun014		23jun015		23jun016		23jun017	
QC Batch:			080623GC8A2		080623GC8A2		080623GC8A2		080623GC8A2		080623GC8A2	
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	0.98 JB	1.0	2,700	1.0	0.46 JB	1.0	8,800	1.0	560
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	ND	1.0	4.2	1.0	ND	1.0	4.9	1.0	4.3

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: 6-30-08

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

BOE-C6-0188917

QC Batch No.: 080623GC8A2
Matrix: Water
Units: ug/L

QC for Dissolved Gases by EPA Procedure RSKSOP-175

		Lab No.:	Method Blank		LCS		LCSD			
		Date Analyzed:	06/23/08		06/23/08		06/23/08			
		Analyst Initials:	DT		DT		DT			
		Datafile:	23jun012		23jun010		23jun011			
		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	0.53 J	91	70-130%	86	70-130%	4.7	<30
Ethane	1.0	0.50	1.0	ND	92	70-130%	88	70-130%	4.4	<30
Ethylene	1.0	0.33	1.0	ND	86	70-130%	82	70-130%	4.4	<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: 6-30-08

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

P0806296

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 12
Lab Proj #: P0806296
Report Date: 07/09/08
Client Proj Name: IRF1437
Client Proj #: IRF1437

Laboratory Results

Total pages in data package: 88

Lab Sample #	Client Sample ID
P0806296-01	IRF1437-01
P0806296-02	IRF1437-02
P0806296-03	IRF1437-03
P0806296-04	IRF1437-04
P0806296-05	IRF1437-05

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 Date: 7-9-08

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.

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

BOE-C6-0188918

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

Page: Page 2 of 12
Lab Proj #: P0806296
Report Date: 07/09/08
Client Proj Name: IRF1437
Client Proj #: IRF1437

Case Narrative: The samples for volatile fatty acid determinations were prepared on 6/26/2008. The percent recoveries for the batch MS/MSD analyses could only be calculated for pyruvic, i-pentanoic, pentanoic, i-hexanoic, and hexanoic acids because of the sample matrix. The percent recoveries for the pyruvic, i-pentanoic and hexanoic acids were outside of control limits for the MS analyses, while the percent recovery for hexanoic acid was outside of control limits for the MSD. 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 12
Lab Proj #: P0806296
Report Date: 07/09/08
Client Proj Name: IRF1437
Client Proj #: IRF1437

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
IRF1437-01	Water	P0806296-01	17 Jun. 08 7:58	19 Jun. 08 10:41

Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	By
SemiVolatiles							
N Acetic Acid	M	0.09	0.07	mg/L	AM23G	7/8/08	jb
N Butyric Acid	UM	< 0.07	0.07	mg/L	AM23G	7/8/08	jb
N Hexanoic Acid	UM	< 0.10	0.1	mg/L	AM23G	7/8/08	jb
N i-Hexanoic Acid	U	< 0.10	0.1	mg/L	AM23G	7/8/08	jb
N i-Pentanoic Acid	UM	< 0.07	0.07	mg/L	AM23G	7/8/08	jb
N Lactic Acid and HIBA	M	0.31	0.1	mg/L	AM23G	7/8/08	jb
N Pentanoic Acid	U	< 0.07	0.07	mg/L	AM23G	7/8/08	jb
N Propionic Acid	UM	< 0.07	0.07	mg/L	AM23G	7/8/08	jb
N Pyruvic Acid	UM	< 0.07	0.07	mg/L	AM23G	7/8/08	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-C6-0188919

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

Page: Page 4 of 12
Lab Proj #: P0806296
Report Date: 07/09/08
Client Proj Name: IRF1437
Client Proj #: IRF1437

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
IRF1437-02	Water	P0806296-02	17 Jun. 08 11:05	19 Jun. 08 10:41

Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	By
SemiVolatiles							
N Acetic Acid		1400.00	70.00	mg/L	AM23G	7/8/08	jb
N Butyric Acid		220.00	7	mg/L	AM23G	7/8/08	jb
N Hexanoic Acid	M	7.60	0.1	mg/L	AM23G	7/4/08	jb
N i-Hexanoic Acid	U	< 0.10	0.1	mg/L	AM23G	7/4/08	jb
N i-Pentanoic Acid		12.00	0.7	mg/L	AM23G	7/8/08	jb
N Lactic Acid and HIBA		1700.00	100.00	mg/L	AM23G	7/8/08	jb
N Pentanoic Acid		31.00	0.7	mg/L	AM23G	7/8/08	jb
N Propionic Acid		710.00	7	mg/L	AM23G	7/8/08	jb
N Pyruvic Acid		34.00	0.7	mg/L	AM23G	7/8/08	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 12
Lab Proj #: P0806296
Report Date: 07/09/08
Client Proj Name: IRF1437
Client Proj #: IRF1437

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
IRF1437-03	Water	P0806296-03	17 Jun. 08 13:47	19 Jun. 08 10:41

Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	By
SemiVolatiles							
N Acetic Acid	M	0.11	0.07	mg/L	AM23G	7/8/08	jb
N Butyric Acid	UM	< 0.07	0.07	mg/L	AM23G	7/8/08	jb
N Hexanoic Acid	UM	< 0.10	0.1	mg/L	AM23G	7/8/08	jb
N i-Hexanoic Acid	U	< 0.10	0.1	mg/L	AM23G	7/8/08	jb
N i-Pentanoic Acid	UM	< 0.07	0.07	mg/L	AM23G	7/8/08	jb
N Lactic Acid and HIBA	M	0.37	0.1	mg/L	AM23G	7/8/08	jb
N Pentanoic Acid	U	< 0.07	0.07	mg/L	AM23G	7/8/08	jb
N Propionic Acid	UM	< 0.07	0.07	mg/L	AM23G	7/8/08	jb
N Pyruvic Acid	M	0.34	0.07	mg/L	AM23G	7/8/08	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-C6-0188920

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

Page: Page 6 of 12
Lab Proj #: P0806296
Report Date: 07/09/08
Client Proj Name: IRF1437
Client Proj #: IRF1437

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
IRF1437-04	Water	P0806296-04	17 Jun. 08 12:25	19 Jun. 08 10:41

Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	By
SemiVolatiles							
N Acetic Acid		470.00	7	mg/L	AM23G	7/9/08	jb
N Butyric Acid		130.00	7	mg/L	AM23G	7/9/08	jb
N Hexanoic Acid	M	6.20	0.1	mg/L	AM23G	7/8/08	jb
N i-Hexanoic Acid	U	< 0.10	0.1	mg/L	AM23G	7/8/08	jb
N i-Pentanoic Acid		4.20	0.7	mg/L	AM23G	7/8/08	jb
N Lactic Acid and HIBA		1200.00	100.00	mg/L	AM23G	7/9/08	jb
N Pentanoic Acid		11.00	0.7	mg/L	AM23G	7/8/08	jb
N Propionic Acid		100.00	7	mg/L	AM23G	7/9/08	jb
N Pyruvic Acid		12.00	0.7	mg/L	AM23G	7/8/08	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 12
Lab Proj #: P0806296
Report Date: 07/09/08
Client Proj Name: IRF1437
Client Proj #: IRF1437

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
IRF1437-05	Water	P0806296-05	17 Jun. 08 9:33	19 Jun. 08 10:41

Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	By
SemiVolatiles							
N Acetic Acid	M	2.10	0.07	mg/L	AM23G	7/8/08	jb
N Butyric Acid	UM	< 0.07	0.07	mg/L	AM23G	7/8/08	jb
N Hexanoic Acid	UM	< 0.10	0.10	mg/L	AM23G	7/8/08	jb
N i-Hexanoic Acid	U	< 0.10	0.10	mg/L	AM23G	7/8/08	jb
N i-Pentanoic Acid	UM	< 0.07	0.07	mg/L	AM23G	7/8/08	jb
N Lactic Acid and HIBA	M	0.43	0.10	mg/L	AM23G	7/8/08	jb
N Pentanoic Acid	U	< 0.07	0.07	mg/L	AM23G	7/8/08	jb
N Propionic Acid	UM	< 0.07	0.07	mg/L	AM23G	7/8/08	jb
N Pyruvic Acid	UM	< 0.07	0.07	mg/L	AM23G	7/8/08	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-C6-0188921

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

Page: Page 8 of 12
Lab Proj #: P0806296
Report Date: 07/09/08
Client Proj Name: IRF1437
Client Proj #: IRF1437

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

M080626010-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		0.1		- 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		0.1		- NA
Hexanoic Acid	< 0.10	mg/L		0.1		- NA

M080626010-LCS

	Result		TrueSpikeConc.	%Recovery	Ctl Limits
Acetic Acid	1.80	mg/L	2.00	90.00	70 - 130
Propionic Acid	1.70	mg/L	2.00	85.00	70 - 130
Butyric Acid	1.80	mg/L	2.00	90.00	70 - 130
Lactic Acid and HIBA	1.70	mg/L	2.00	85.00	70 - 130
Pyruvic Acid	1.70	mg/L	2.00	85.00	70 - 130
i-Pentanoic Acid	1.90	mg/L	2.00	95.00	70 - 130
Pentanoic Acid	1.80	mg/L	2.00	90.00	70 - 130
i-Hexanoic Acid	1.90	mg/L	2.00	95.00	70 - 130
Hexanoic Acid	1.80	mg/L	2.00	90.00	70 - 130

P0806295-01A-MS

	Result		TrueSpikeConc.	%Recovery	Ctl Limits
Pyruvic Acid	5.40	mg/L	2.00	60.00	70 - 130
i-Pentanoic Acid	10.00	mg/L	2.00	25.00	70 - 130
Pentanoic Acid	3.80	mg/L	2.00	95.00	70 - 130
i-Hexanoic Acid	2.70	mg/L	2.00	102.00	70 - 130
Hexanoic Acid	3.10	mg/L	2.00	146.00	70 - 130

P0806295-01A-MSD

	Result		TrueSpikeConc.	%Recovery	Ctl Limits	RPD	RPD Ctl 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 12
Lab Proj #: P0806296
Report Date: 07/09/08
Client Proj Name: IRF1437
Client Proj #: IRF1437

P0806295-01A-MSD

	Result		TrueSpikeConc.	%Recovery	Ctl Limits	RPD	RPD Ctl Limits
Pyruvic Acid	5.70	mg/L	2.00	75.00	70 - 130	5.41	0 - 30
i-Pentanoic Acid	11.00	mg/L	2.00	75.00	70 - 130	9.52	0 - 30
Pentanoic Acid	3.90	mg/L	2.00	100.00	70 - 130	2.60	0 - 30
i-Hexanoic Acid	2.60	mg/L	2.00	97.00	70 - 130	3.77	0 - 30
Hexanoic Acid	2.80	mg/L	2.00	131.00	70 - 130	10.17	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-C6-0188922

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

Page: Page 10 of 12
Lab Proj #: P0806296
Report Date: 07/09/08
Client Proj Name: IRF1437
Client Proj #: IRF1437

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

M080709033-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
Hexanoic Acid	< 0.10	mg/L		0.10		- NA

M080709033-LCS

	Result		TrueSpikeConc.		%Recovery	Ctl Limits
Acetic Acid	2.30	mg/L	2.00		115.00	70 - 130
Propionic Acid	2.20	mg/L	2.00		110.00	70 - 130
Butyric Acid	2.10	mg/L	2.00		105.00	70 - 130
Lactic Acid and HIBA	2.40	mg/L	2.00		120.00	70 - 130
Pyruvic Acid	2.10	mg/L	2.00		105.00	70 - 130
i-Pentanoic Acid	2.20	mg/L	2.00		110.00	70 - 130
Pentanoic Acid	2.10	mg/L	2.00		105.00	70 - 130
Hexanoic Acid	2.00	mg/L	2.00		100.00	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 12
Lab Proj #: P0806296
Report Date: 07/09/08
Client Proj Name: IRF1437
Client Proj #: IRF1437

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

M080709036-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

M080709036-LCS

	Result		TrueSpikeConc.		%Recovery	Ctl Limits
Acetic Acid	2.30	mg/L	2.00		115.00	70 - 130
Propionic Acid	2.20	mg/L	2.00		110.00	70 - 130
Butyric Acid	2.10	mg/L	2.00		105.00	70 - 130
Lactic Acid and HIBA	2.40	mg/L	2.00		120.00	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-C6-0188923

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

Page: Page 12 of 12
Lab Proj #: P0806296
Report Date: 07/09/08
Client Proj Name: IRF1437
Client Proj #: IRF1437

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

M080709037-MB

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

M080709037-LCS

	Result		TrueSpikeConc.	%Recovery	Ctl Limits
Acetic Acid	2.30	mg/L	2.00	115.00	70 - 130
Lactic Acid and HIBA	2.40	mg/L	2.00	120.00	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

BOE-C6-0188924

SUBCONTRACT ORDER

TestAmerica Irvine

IRF1437

P0806296

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:

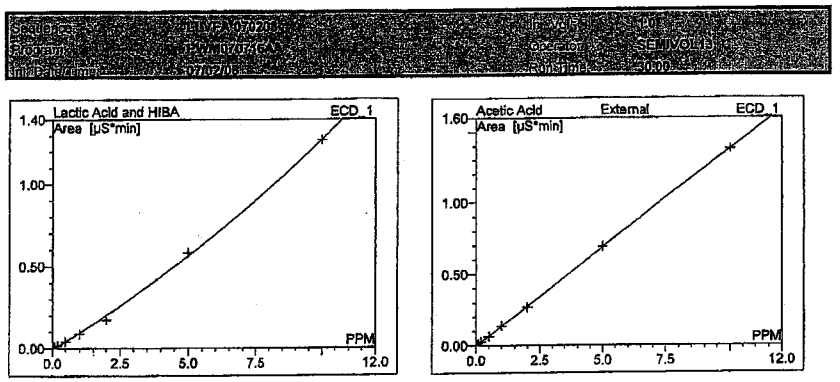
Microseeps-SUB
220 William Pitt Way
Pittsburgh, PA 15238
Phone :412/826-5245
Fax: 412/826-3433
Project Location: California
Receipt Temperature: _____ °C Ice: Y / N

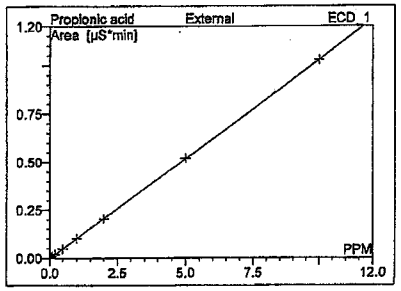
Analysis	Units	Due	Expires	Comments
Sample ID: IRF1437-01	**Water**		Sampled: 06/17/08 07:58	
VFA-Microseeps OUT	mg/l	07/01/08	06/24/08 07:58	Microseeps; IC; J&Bflags;TestAmerica excel EDD
Containers Supplied:				
40 mL Amber VOA Vial (G)	40 mL Amber VOA Vial (H)			
Sample ID: IRF1437-02	**Water**		Sampled: 06/17/08 11:05	
VFA-Microseeps OUT	mg/l	07/01/08	06/24/08 11:05	Microseeps; IC; J&Bflags;TestAmerica excel EDD
Containers Supplied:				
40 mL Amber VOA Vial (G)	40 mL Amber VOA Vial (H)			
Sample ID: IRF1437-03	**Water**		Sampled: 06/17/08 13:47	
VFA-Microseeps OUT	mg/l	07/01/08	06/24/08 13:47	Microseeps; IC; J&Bflags;TestAmerica excel EDD
Containers Supplied:				
40 mL Amber VOA Vial (G)	40 mL Amber VOA Vial (H)			
Sample ID: IRF1437-04	**Water**		Sampled: 06/17/08 12:25	
VFA-Microseeps OUT	mg/l	07/01/08	06/24/08 12:25	Microseeps; IC; J&Bflags;TestAmerica excel EDD
Containers Supplied:				
40 mL Amber VOA Vial (G)	40 mL Amber VOA Vial (H)			
Sample ID: IRF1437-05	**Water**		Sampled: 06/17/08 09:33	
VFA-Microseeps OUT	mg/l	07/01/08	06/24/08 09:33	Microseeps; IC; J&Bflags;TestAmerica excel EDD
Containers Supplied:				
40 mL Amber VOA Vial (G)	40 mL Amber VOA Vial (H)			

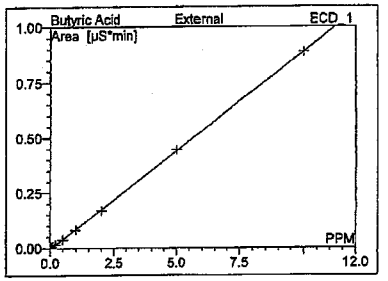
Released By	Date/Time	Received By	Date/Time
	6/17/08 17:00	FedEx	6/17/08 17:00
			6/19
Released By	Date/Time	Received By	Date/Time

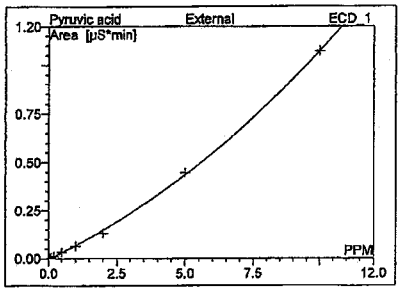
Volatile Fatty Acid Data

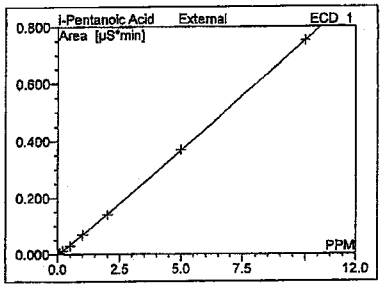
Calibration Batch Report

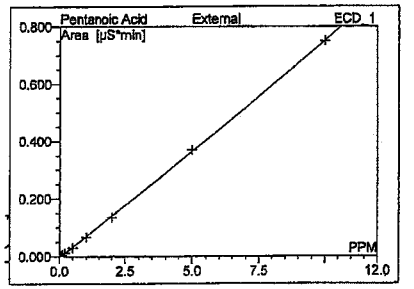


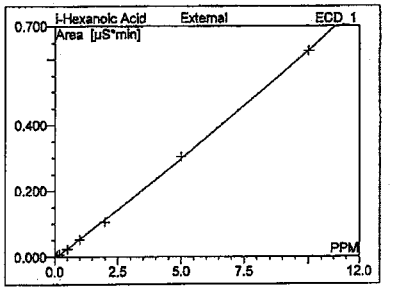


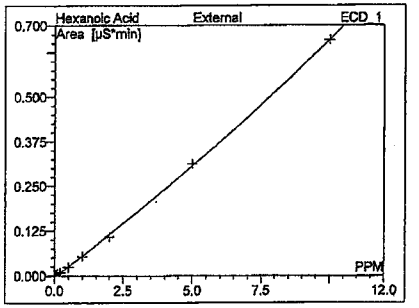












Peak Name	Cal.Mode	Cal.Type	Slope	#Points	Rel.Std.Dev.	R-Square
					%	%
QUINIC	Total	QOff	0.000	8	n.a.	n.a.
Lactic Acid and HIBA	Total	QOff	0.100	8	6.286	99.894
Acetic Acid	Total	QOff	0.138	8	1.049	99.996
Propionic acid	Total	QOff	0.105	8	0.804	99.998
FORMIC	Total	QOff	0.000	8	n.a.	n.a.
Butyric Acid	Total	QOff	0.089	8	2.036	99.987
Pyruvic acid	Total	QOff	0.069	8	4.055	99.959
i-Pentanoic Acid	Total	QOff	0.072	8	1.486	99.993
Pentanoic Acid	Total	QOff	0.072	8	2.232	99.985
BAK	Total	QOff	0.000	8	n.a.	n.a.
i-Hexanoic Acid	Total	QOff	0.058	8	3.284	99.969
Hexanoic Acid	Total	QOff	0.058	8	3.176	99.971

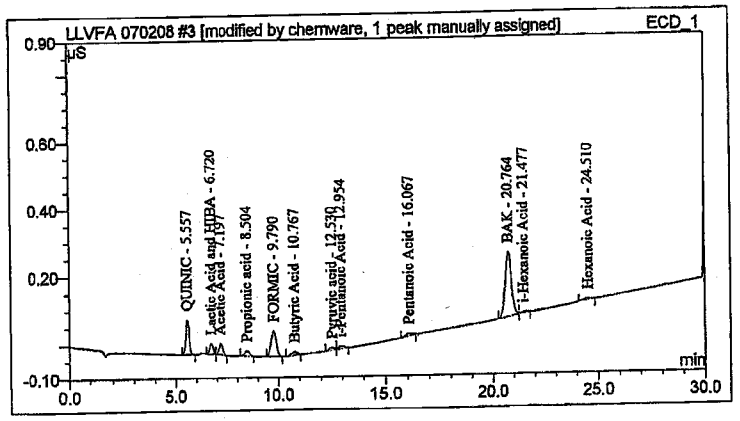
BOE-C6-0188926

MICROSEEPS

Sample Analysis Report

Sample Name:	LLVFA ICAL 1	**Sequence No:**	3
Sequence Name:	LLVFA 070208	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	7/2/2008 11:27 AM	**Analytical Method:**	AM23G
System Operator:	chemware	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	5.557	0.020	0.102	BMB	n.a.
2	Lactic Acid and HIBA	6.720	0.006	0.030	BMB	0.1397
3	Acetic Acid	7.197	0.007	0.032	BMB	0.0735
4	Propionic acid	8.504	0.004	0.015	BMB	0.0644
5	FORMIC	9.790	0.021	0.075	BMB	n.a.
6	Butyric Acid	10.767	0.003	0.010	BMB*	0.0950
7	Pyruvic acid	12.530	0.002	0.008	BM **	0.1353
8	I-Pentanoic Acid	12.954	0.003	0.008	MB*	0.1056
9	Pentanoic Acid	16.067	0.003	0.007	BMB	0.0921
10	BAK	20.764	0.066	0.190	BM *	n.a.
11	I-Hexanoic Acid	21.477	0.001	0.004	MB*	0.1424
12	Hexanoic Acid	24.510	0.002	0.005	BMB*	0.1126

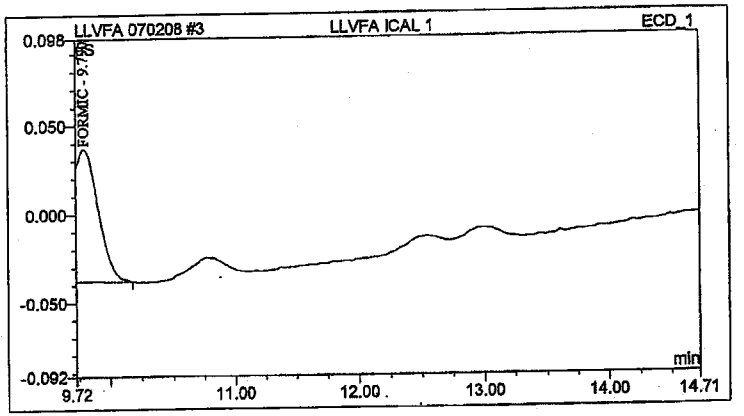


MICROSEEPS

Sample Analysis Report

Sample Name:	LLVFA ICAL 1	**Sequence No:**	3
Sequence Name:	LLVFA 070208	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	7/2/2008 11:27 AM	**Analytical Method:**	AM23G
System Operator:	chemware	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	5.557	0.020	0.102	BMB	n.a.
2	Lactic Acid and HIBA	6.720	0.006	0.030	BMB	0.1397
3	Acetic Acid	7.197	0.007	0.032	BMB	0.0735
4	Propionic acid	8.504	0.004	0.015	BMB	0.0644
5	FORMIC	9.790	0.021	0.075	BMB	n.a.
6	Pentanoic Acid	16.067	0.003	0.007	BMB	0.0921
7	BAK	20.764	0.065	0.188	BMB	n.a.



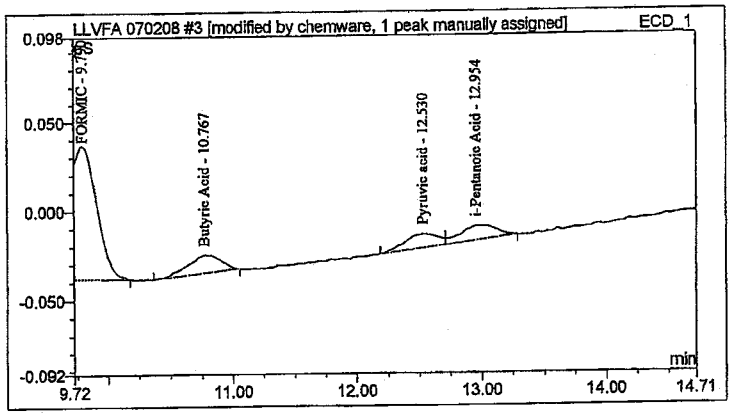
BOE-C6-0188927

MICROSEEPS

Sample Analysis Report

Sample Name:	LLVFA ICAL 1	**Sequence No:**	3
Sequence Name:	LLVFA 070208	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	7/2/2008 11:27 AM	**Analytical Method:**	AM23G
System Operator:	chemware	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	5.557	0.020	0.102	BMB	n.a.
2	Lactic Acid and HIBA	6.720	0.006	0.030	BMB	0.1397
3	Acetic Acid	7.197	0.007	0.032	BMB	0.0735
4	Propionic acid	8.504	0.004	0.015	BMB	0.0644
5	FORMIC	9.790	0.021	0.075	BMB	n.a.
6	Butyric Acid	10.767	0.003	0.010	BMB*	0.0950
7	Pyruvic acid	12.530	0.002	0.008	BM *^	0.1353
8	i-Pentanoic Acid	12.954	0.003	0.008	MB*	0.1056
9	Pentanoic Acid	16.067	0.003	0.007	BMB	0.0921
10	BAK	20.764	0.065	0.188	BMB	n.a.



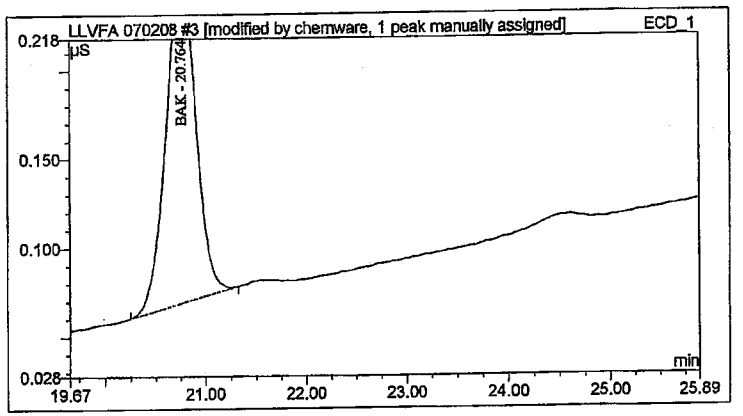
P0806296

MICROSEEPS

Sample Analysis Report

Sample Name:	LLVFA ICAL 1	**Sequence No:**	3
Sequence Name:	LLVFA 070208	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	7/2/2008 11:27 AM	**Analytical Method:**	AM23G
System Operator:	chemware	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	5.557	0.020	0.102	BMB	n.a.
2	Lactic Acid and HIBA	6.720	0.006	0.030	BMB	0.1397
3	Acetic Acid	7.197	0.007	0.032	BMB	0.0735
4	Propionic acid	8.504	0.004	0.015	BMB	0.0644
5	FORMIC	9.790	0.021	0.075	BMB	n.a.
6	Butyric Acid	10.767	0.003	0.010	BMB*	0.0950
7	Pyruvic acid	12.530	0.002	0.008	BM *^	0.1353
8	i-Pentanoic Acid	12.954	0.003	0.008	MB*	0.1056
9	Pentanoic Acid	16.067	0.003	0.007	BMB	0.0921
10	BAK	20.764	0.065	0.188	BMB	n.a.



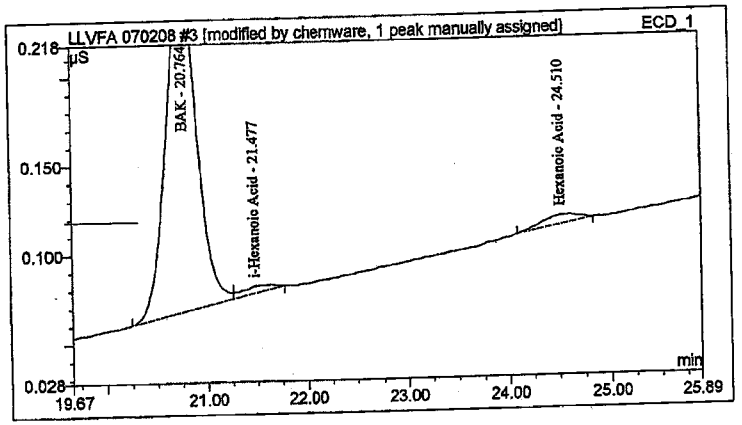
BOE-C6-0188928

MICROSEEPS

Sample Analysis Report

Sample Name:	LLVFA ICAL 1	**Sequence No:**	3
Sequence Name:	LLVFA 070208	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	7/2/2008 11:27 AM	**Analytical Method:**	AM23G
System Operator:	chemware	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	5.557	0.020	0.102	BMB	n.a.
2	Lactic Acid and HIBA	6.720	0.006	0.030	BMB	0.1397
3	Acetic Acid	7.197	0.007	0.032	BMB	0.0735
4	Propionic acid	8.504	0.004	0.015	BMB	0.0644
5	FORMIC	9.790	0.021	0.075	BMB	n.a.
6	Butyric Acid	10.767	0.003	0.010	BMB*	0.0950
7	Pyruvic acid	12.530	0.002	0.008	BM *^	0.1353
8	i-Pentanoic Acid	12.954	0.003	0.008	MB*	0.1056
9	Pentanoic Acid	16.087	0.003	0.007	BMB	0.0921
10	BAK	20.764	0.066	0.190	BM *	n.a.
11	i-Hexanoic Acid	21.477	0.001	0.004	MB*	0.1424
12	Hexanoic Acid	24.510	0.002	0.005	BMB*	0.1126



6.60 Build 1428

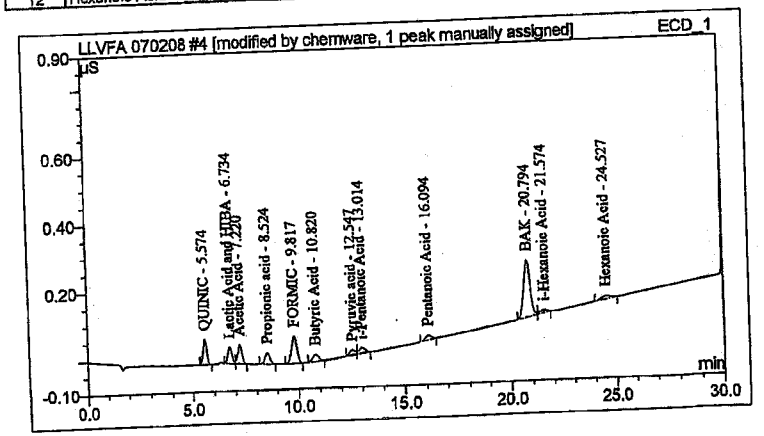
current date: 7/2/2008
current time: 5:05 PM

MICROSEEPS

Sample Analysis Report

Sample Name:	LLVFA ICAL 2	**Sequence No:**	4
Sequence Name:	LLVFA 070208	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	7/2/2008 12:08 PM	**Analytical Method:**	AM23G
System Operator:	chemware	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	5.574	0.014	0.074	BMB	n.a.
2	Lactic Acid and HIBA	6.734	0.011	0.048	BM	0.1833
3	Acetic Acid	7.220	0.013	0.056	MB	0.1147
4	Propionic acid	8.524	0.009	0.032	BMB	0.1118
5	FORMIC	9.817	0.023	0.080	BMB	n.a.
6	Butyric Acid	10.820	0.007	0.020	BMB	0.1370
7	Pyruvic acid	12.547	0.005	0.016	BM ^	0.1669
8	i-Pentanoic Acid	13.014	0.005	0.016	MB	0.1425
9	Pentanoic Acid	16.094	0.005	0.015	BMB	0.1250
10	BAK	20.794	0.058	0.167	BM *	n.a.
11	i-Hexanoic Acid	21.574	0.003	0.008	MB*	0.1743
12	Hexanoic Acid	24.527	0.005	0.010	BMB	0.1626



6.60 Build 1428

current date: 7/2/2008
current time: 5:03 PM

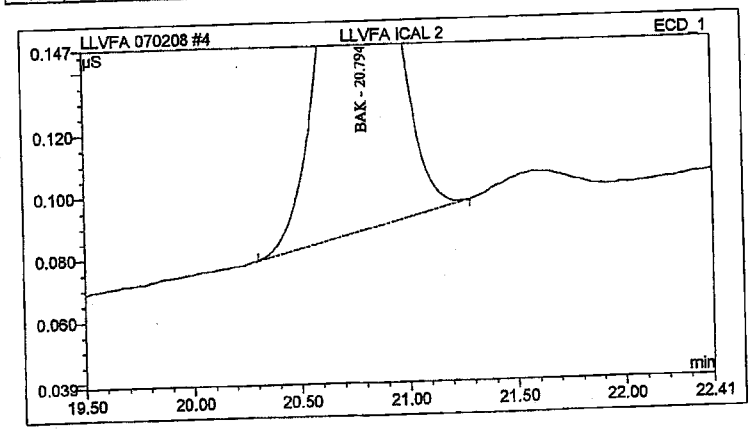
BOE-C6-0188929

MICROSEEPS

Sample Analysis Report

Sample Name:	LLVFA ICAL 2	**Sequence No:**	4
Sequence Name:	LLVFA 070208	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	7/2/2008 12:08 PM	**Analytical Method:**	AM23G
System Operator:	chemware	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	5.574	0.014	0.074	BMB	n.a.
2	Lactic Acid and HIBA	6.734	0.011	0.048	BM	0.1833
3	Acetic Acid	7.220	0.013	0.056	MB	0.1147
4	Propionic acid	8.524	0.009	0.032	BMB	0.1118
5	FORMIC	9.817	0.023	0.080	BMB	n.a.
6	Butyric Acid	10.820	0.007	0.020	BMB	0.1370
7	i-Pentanoic Acid	12.547	0.005	0.016	BM	0.1321
8	Pyruvic acid	13.014	0.005	0.016	MB	0.1776
9	Pentanoic Acid	16.094	0.005	0.015	BMB	0.1250
10	BAK	20.794	0.056	0.165	BMB	n.a.
11	Hexanoic Acid	24.527	0.005	0.010	BMB	0.1626

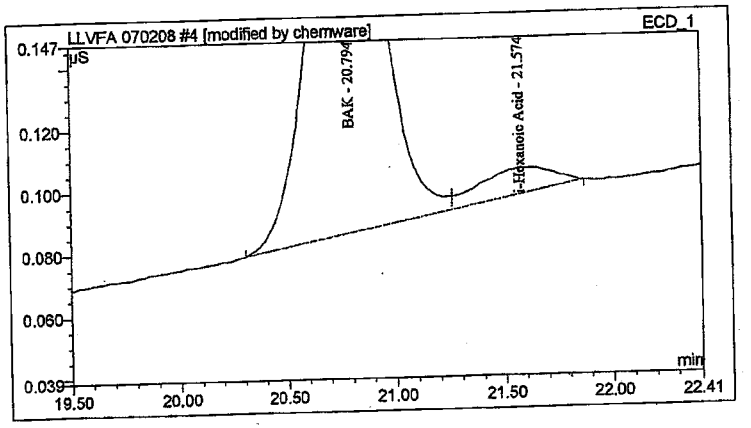


MICROSEEPS

Sample Analysis Report

Sample Name:	LLVFA ICAL 2	**Sequence No:**	4
Sequence Name:	LLVFA 070208	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	7/2/2008 12:08 PM	**Analytical Method:**	AM23G
System Operator:	chemware	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	5.574	0.014	0.074	BMB	n.a.
2	Lactic Acid and HIBA	6.734	0.011	0.048	BM	0.1833
3	Acetic Acid	7.220	0.013	0.056	MB	0.1147
4	Propionic acid	8.524	0.009	0.032	BMB	0.1118
5	FORMIC	9.817	0.023	0.080	BMB	n.a.
6	Butyric Acid	10.820	0.007	0.020	BMB	0.1370
7	i-Pentanoic Acid	12.547	0.005	0.016	BM	0.1321
8	Pyruvic acid	13.014	0.005	0.016	MB	0.1776
9	Pentanoic Acid	16.094	0.005	0.015	BMB	0.1250
10	BAK	20.794	0.058	0.167	BM *	n.a.
11	i-Hexanoic Acid	21.574	0.003	0.008	MB*	0.1743
12	Hexanoic Acid	24.527	0.005	0.010	BMB	0.1626



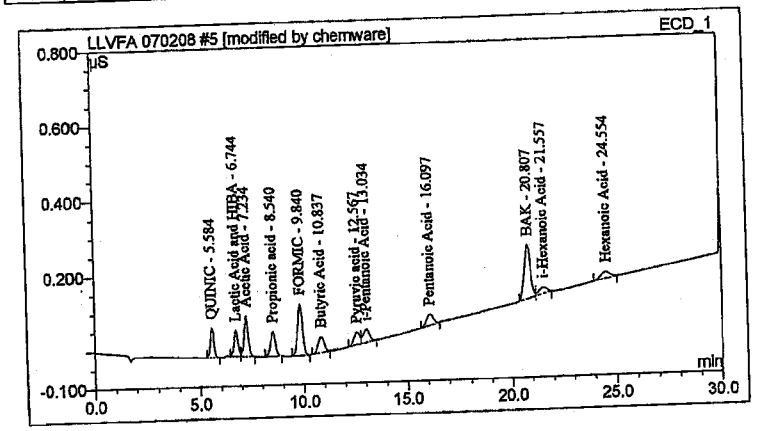
BOE-C6-0188930

MICROSEEPS

Sample Analysis Report

Sample Name:	LLVFA ICAL 3	**Sequence No:**	5
Sequence Name:	LLVFA 070208	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	7/2/2008 12:50 PM	**Analytical Method:**	AM23G
System Operator:	chemware	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	5.584	0.015	0.080	BMB	n.a.
2	Lactic Acid and HIBA	6.744	0.016	0.071	BM	0.2350
3	Acetic Acid	7.234	0.025	0.109	MB	0.2017
4	Propionic acid	8.540	0.018	0.066	BMB	0.2005
5	FORMIC	9.840	0.039	0.138	BMB	n.a.
6	Butyric Acid	10.837	0.014	0.043	BMB	0.2220
7	Pyruvic acid	12.567	0.011	0.034	BM	0.2509
8	i-Pentanoic Acid	13.034	0.012	0.035	MB	0.2350
9	Pentanoic Acid	16.097	0.011	0.030	BMB	0.2121
10	BAK	20.807	0.049	0.142	BM *	n.a.
11	i-Hexanoic Acid	21.557	0.008	0.017	MB*	0.2425
12	Hexanoic Acid	24.554	0.009	0.019	BMB	0.2306

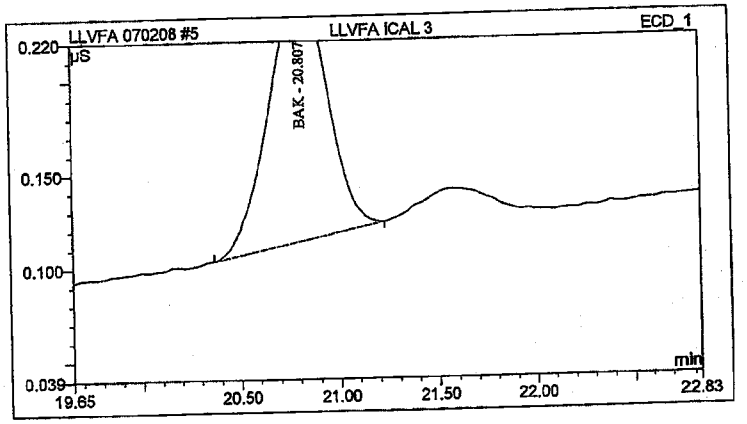


MICROSEEPS

Sample Analysis Report

Sample Name:	LLVFA ICAL 3	**Sequence No:**	5
Sequence Name:	LLVFA 070208	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	7/2/2008 12:50 PM	**Analytical Method:**	AM23G
System Operator:	chemware	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	5.584	0.015	0.080	BMB	n.a.
2	Lactic Acid and HIBA	6.744	0.016	0.071	BM	0.2350
3	Acetic Acid	7.234	0.025	0.109	MB	0.2017
4	Propionic acid	8.540	0.018	0.066	BMB	0.2005
5	FORMIC	9.840	0.039	0.138	BMB	n.a.
6	Butyric Acid	10.837	0.014	0.043	BMB	0.2220
7	Pyruvic acid	12.567	0.011	0.034	BM	0.2509
8	i-Pentanoic Acid	13.034	0.012	0.035	MB	0.2350
9	Pentanoic Acid	16.097	0.011	0.030	BMB	0.2121
10	BAK	20.807	0.046	0.139	BMB	n.a.
11	Hexanoic Acid	24.554	0.009	0.019	BMB	0.2306



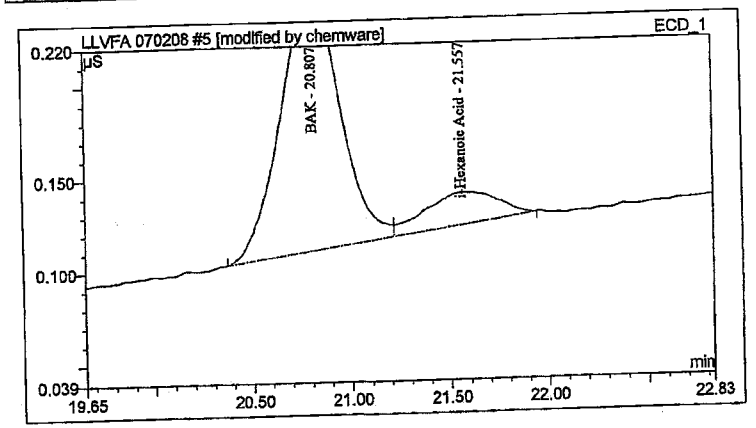
BOE-C6-0188931

MICROSEEPS

Sample Analysis Report

Sample Name:	LLVFA ICAL 3	**Sequence No:**	5
Sequence Name:	LLVFA 070208	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	7/2/2008 12:50 PM	**Analytical Method:**	AM23G
System Operator:	chemware	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	5.584	0.015	0.080	BMB	n.a.
2	Lactic Acid and HIBA	6.744	0.016	0.071	BM	0.2350
3	Acetic Acid	7.234	0.025	0.109	MB	0.2017
4	Propionic acid	8.540	0.018	0.066	BMB	0.2005
5	FORMIC	9.840	0.039	0.138	BMB	n.a.
6	Butyric Acid	10.837	0.014	0.043	BMB	0.2220
7	Pyruvic acid	12.567	0.011	0.034	BM	0.2509
8	i-Pentanoic Acid	13.034	0.012	0.035	MB	0.2350
9	Pentanoic Acid	16.097	0.011	0.030	BMB	0.2121
10	BAK	20.807	0.049	0.142	BM *	n.a.
11	i-Hexanoic Acid	21.557	0.008	0.017	MB*	0.2425
12	Hexanoic Acid	24.554	0.009	0.019	BMB	0.2306

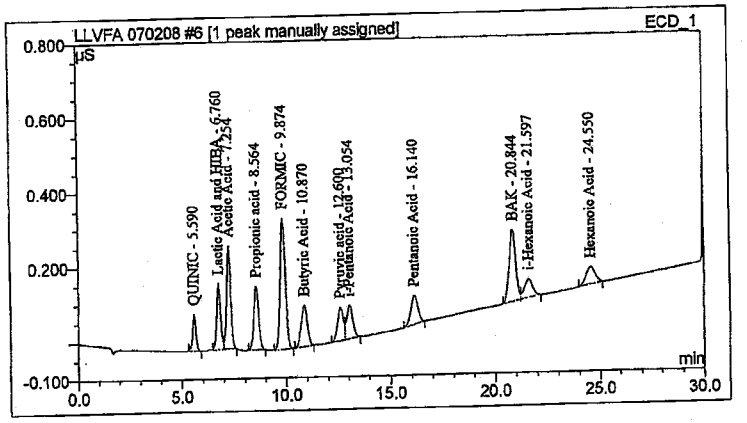


MICROSEEPS

Sample Analysis Report

Sample Name:	LLVFA ICAL 4	**Sequence No:**	6
Sequence Name:	LLVFA 070208	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	7/2/2008 1:31 PM	**Analytical Method:**	AM23G
System Operator:	chemware	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	5.590	0.019	0.099	BMB	n.a.
2	Lactic Acid and HIBA	6.760	0.040	0.177	BM	0.4771
3	Acetic Acid	7.254	0.064	0.275	MB	0.4785
4	Propionic acid	8.564	0.048	0.170	BMB	0.4852
5	FORMIC	9.874	0.100	0.351	BMB	n.a.
6	Butyric Acid	10.870	0.037	0.111	BMB	0.4821
7	Pyruvic acid	12.600	0.029	0.089	BM ^	0.4995
8	i-Pentanoic Acid	13.054	0.032	0.090	MB	0.4899
9	Pentanoic Acid	16.140	0.030	0.077	BMB	0.4726
10	BAK	20.844	0.066	0.191	BM	n.a.
11	i-Hexanoic Acid	21.597	0.023	0.049	MB	0.5000
12	Hexanoic Acid	24.550	0.023	0.046	BMB	0.4778



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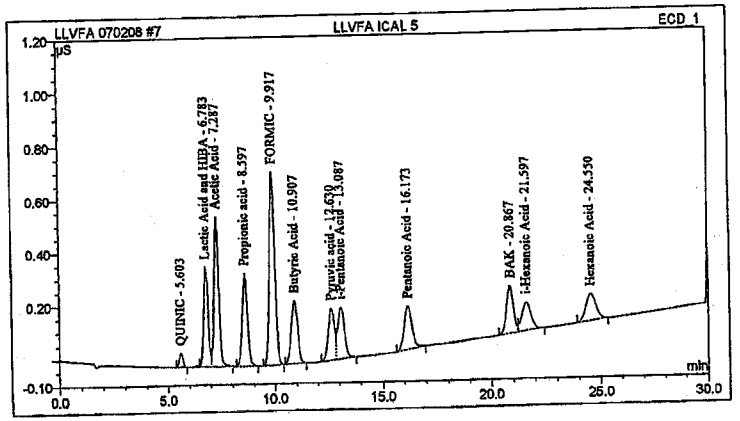
Sample Analysis Report

Sample Name:	LLVFA ICAL 5	**Sequence No:**	7
Sequence Name:	LLVFA 070208	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	7/2/2008 2:12 PM	**Analytical Method:**	AM23G
System Operator:	chemware	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	5.603	0.010	0.052	BMB	n.a.
2	Lactic Acid and HIBA	6.783	0.086	0.375	BM	0.9298
3	Acetic Acid	7.287	0.137	0.562	MB	1.0047
4	Propionic acid	8.597	0.101	0.350	BMB	0.9966
5	FORMIC	9.917	0.211	0.730	BMB	n.a.
6	Butyric Acid	10.907	0.081	0.237	BMB	0.9749
7	Pyruvic acid	12.630	0.064	0.195	BM	0.9502
8	i-Pentanoic Acid	13.087	0.070	0.193	MB	0.9950
9	Pentanoic Acid	16.173	0.066	0.163	BMB	0.9763
10	BAK	20.867	0.062	0.180	BM	n.a.
11	i-Hexanoic Acid	21.597	0.052	0.107	MB	1.0000
12	Hexanoic Acid	24.550	0.053	0.100	BMB	0.9835



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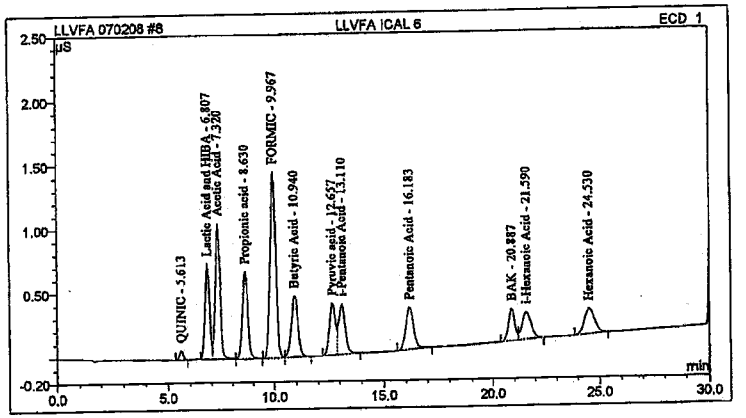
Sample Analysis Report

Sample Name:	LLVFA ICAL 6	**Sequence No:**	8
Sequence Name:	LLVFA 070208	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	7/2/2008 2:53 PM	**Analytical Method:**	AM23G
System Operator:	chemware	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	5.613	0.014	0.073	BMB	n.a.
2	Lactic Acid and HIBA	6.807	0.175	0.745	BM	1.7595
3	Acetic Acid	7.320	0.268	1.059	M	1.9494
4	Propionic acid	8.630	0.203	0.679	MB	1.9770
5	FORMIC	9.967	0.433	1.453	BM	n.a.
6	Butyric Acid	10.940	0.168	0.476	MB	1.9524
7	Pyruvic acid	12.657	0.133	0.405	BM	1.7996
8	i-Pentanoic Acid	13.110	0.141	0.389	MB	1.9464
9	Pentanoic Acid	16.183	0.135	0.329	BMB	1.9259
10	BAK	20.887	0.086	0.251	BM	n.a.
11	i-Hexanoic Acid	21.590	0.105	0.212	MB	2.0000
12	Hexanoic Acid	24.530	0.108	0.198	BMB	1.8849



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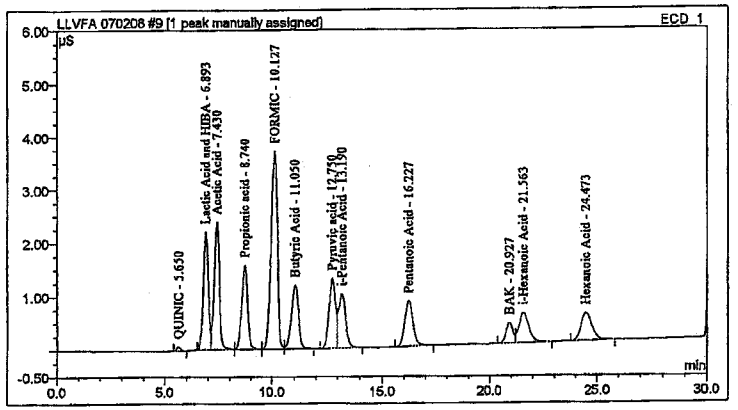
Sample Analysis Report

Sample Name:	LLVFA ICAL 7	**Sequence No:**	9
Sequence Name:	LLVFA 070208	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	7/2/2008 3:34 PM	**Analytical Method:**	AM23G
System Operator:	chemware	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	5.650	0.016	0.074	BMB	n.a.
2	Lactic Acid and HIBA	6.893	0.583	2.205	BM	5.1469
3	Acetic Acid	7.430	0.691	2.381	M	5.0343
4	Propionic acid	8.740	0.519	1.573	MB	5.0180
5	FORMIC	10.127	1.246	3.714	BM	n.a.
6	Butyric Acid	11.050	0.446	1.195	MB	5.0390
7	Pyruvic acid	12.750	0.447	1.309	BM	5.1066
8	i-Pentanoic Acid	13.190	0.369	1.013	MB	5.0408
9	Pentanoic Acid	16.227	0.369	0.850	BMB	5.0563
10	BAK	20.927	0.135	0.391	BM ^	n.a.
11	i-Hexanoic Acid	21.563	0.302	0.565	MB	n.a.
12	Hexanoic Acid	24.473	0.312	0.521	BMB	5.0725



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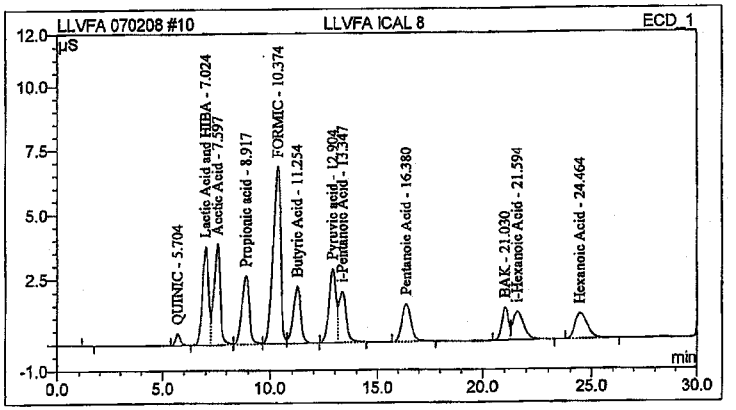
Sample Analysis Report

Sample Name:	LLVFA ICAL 8	**Sequence No:**	10
Sequence Name:	LLVFA 070208	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	7/2/2008 4:58 PM	**Analytical Method:**	AM23G
System Operator:	chemware	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
2	QUINIC	5.704	0.118	0.450	Ru	n.a.
3	Lactic Acid and HIBA	7.024	1.271	3.775	BM	9.9750
4	Acetic Acid	7.597	1.379	3.882	M	9.9956
5	Propionic acid	8.917	1.029	2.633	M	9.9960
6	FORMIC	10.374	2.754	6.842	M	n.a.
7	Butyric Acid	11.254	0.888	2.194	MB	9.9895
8	Pyruvic acid	12.904	1.072	2.836	BM	9.9864
9	i-Pentanoic Acid	13.347	0.751	1.961	MB	9.9947
10	Pentanoic Acid	16.380	0.750	1.450	BMB	9.9892
11	BAK	21.030	0.446	1.281	BM	n.a.
12	i-Hexanoic Acid	21.594	0.625	1.091	MB	9.9850
13	Hexanoic Acid	24.464	0.659	0.987	BMB	9.9861



BOE-C6-0188934

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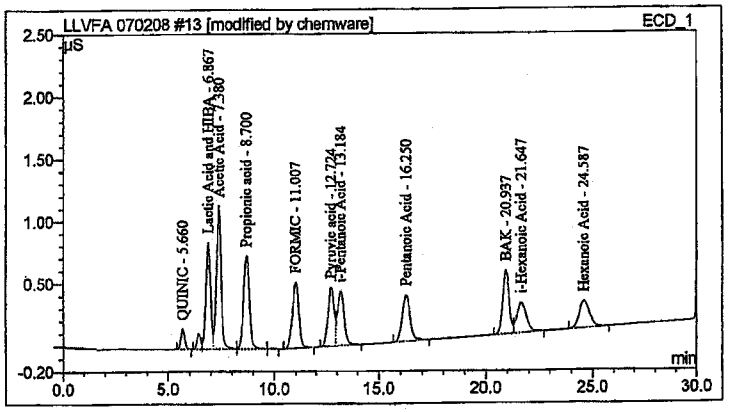
Sample Analysis Report

Sample Name:	ICV	**Sequence No:**	13
Sequence Name:	LLVFA 070208	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	7/2/2008 7:42 PM	**Analytical Method:**	AM23G
System Operator:	chemware	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	5.660	0.033	0.162	BMB	n.a.
3	Lactic Acid and HIBA	6.867	0.209	0.855	M *	2.0521
4	Acetic Acid	7.380	0.299	1.148	M	2.1872
5	Propionic acid	8.700	0.228	0.743	M	2.2145
7	FORMIC	11.007	0.188	0.524	BMB	n.a.
8	Pyruvic acid	12.724	0.155	0.467	BM	2.0778
9	i-Pentanoic Acid	13.184	0.158	0.431	MB	2.2013
10	Pentanoic Acid	16.250	0.151	0.364	BMB	2.1313
11	BAK	20.937	0.175	0.508	BM	n.a.
12	i-Hexanoic Acid	21.647	0.120	0.239	MB	2.1197
13	Hexanoic Acid	24.587	0.120	0.215	BMB	2.0819



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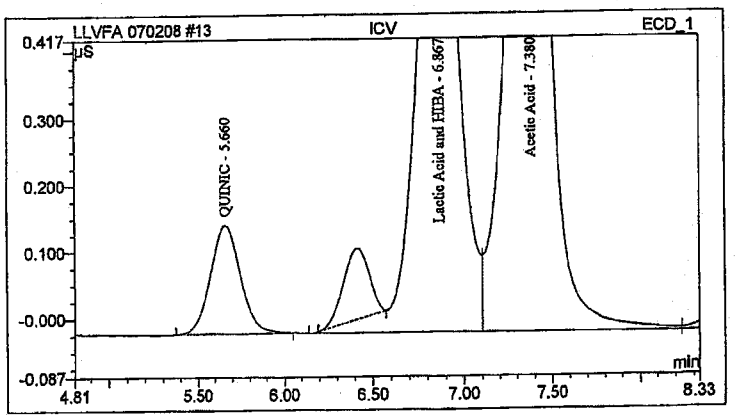
Sample Analysis Report

Sample Name:	ICV	**Sequence No:**	13
Sequence Name:	LLVFA 070208	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	7/2/2008 7:42 PM	**Analytical Method:**	AM23G
System Operator:	chemware	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	5.660	0.033	0.162	BMB	n.a.
3	Lactic Acid and HIBA	6.867	0.215	0.855	BM	2.1108
4	Acetic Acid	7.380	0.299	1.148	M	2.1872
5	Propionic acid	8.700	0.228	0.743	M	2.2145
6	FORMIC	9.974	0.002	0.005	MB	n.a.
7	Butyric Acid	11.007	0.188	0.524	BMB	2.1638
8	Pyruvic acid	12.724	0.155	0.467	BM	2.0778
9	i-Pentanoic Acid	13.184	0.158	0.431	MB	2.2013
10	Pentanoic Acid	16.250	0.151	0.364	BMB	2.1313
11	BAK	20.937	0.175	0.508	BM	n.a.
12	i-Hexanoic Acid	21.647	0.120	0.239	MB	2.1197
13	Hexanoic Acid	24.587	0.120	0.215	BMB	2.0819



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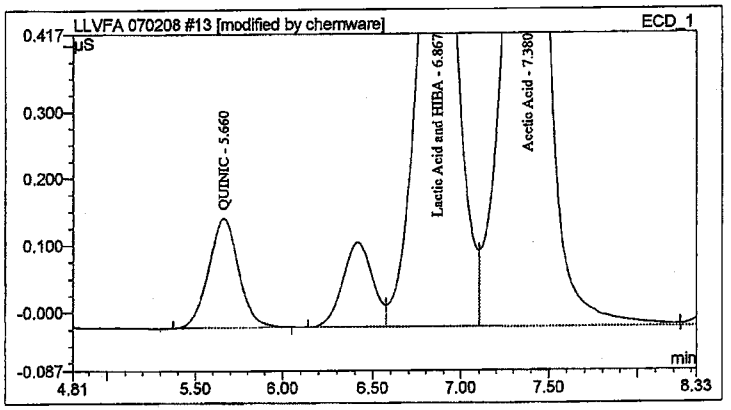
Sample Analysis Report

Sample Name:	ICV	**Sequence No:**	13
Sequence Name:	LLVFA 070208	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	7/2/2008 7:42 PM	**Analytical Method:**	AM23G
System Operator:	chemware	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	5.660	0.033	0.162	BMB	n.a.
3	Lactic Acid and HIBA	6.867	0.209	0.855	M *	2.0521
4	Acetic Acid	7.380	0.299	1.148	M	2.1872
5	Propionic acid	8.700	0.228	0.743	M	2.2145
7	FORMIC	11.007	0.188	0.524	BMB	n.a.
8	Pyruvic acid	12.724	0.155	0.467	BM	2.0778
9	i-Pentanoic Acid	13.184	0.158	0.431	MB	2.2013
10	Pentanoic Acid	16.250	0.151	0.364	BMB	2.1313
11	BAK	20.937	0.175	0.508	BM	n.a.
12	i-Hexanoic Acid	21.647	0.120	0.239	MB	2.1197
13	Hexanoic Acid	24.587	0.120	0.215	BMB	2.0819



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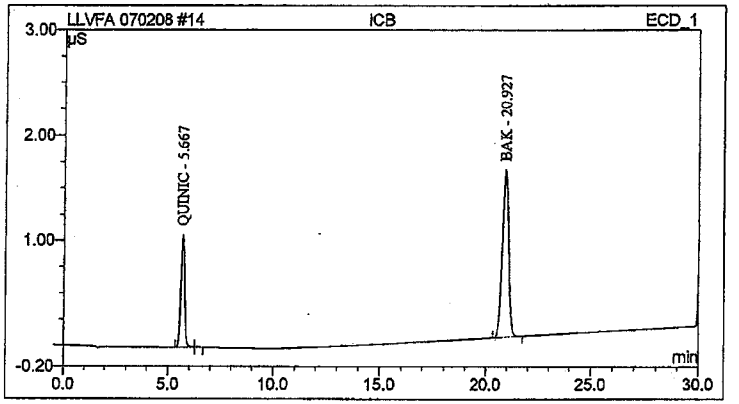
Sample Analysis Report

Sample Name:	ICB	**Sequence No:**	14
Sequence Name:	LLVFA 070208	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	7/2/2008 8:23 PM	**Analytical Method:**	AM23G
System Operator:	chemware	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	5.667	0.217	1.079	BM	n.a.
3	BAK	20.927	0.544	1.595	BMB	n.a.



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P0806296

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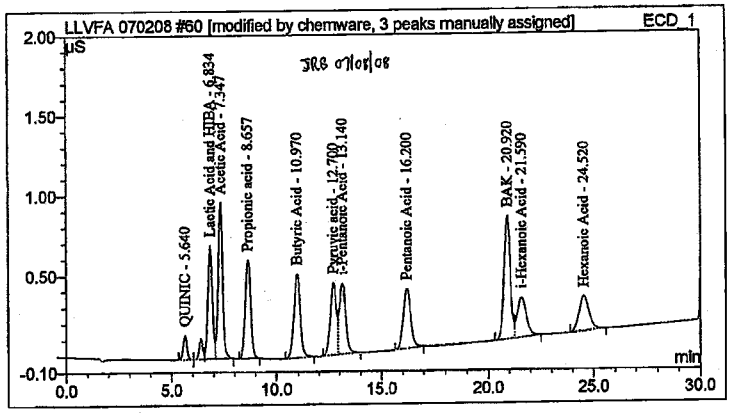
Sample Analysis Report

Sample Name:	CCV	**Sequence No:**	60
Sequence Name:	LLVFA 070208	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	7/4/2008 5:57 AM	**Analytical Method:**	AM23G
System Operator:	chemware	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM	% recovery
1	QUINIC	5.640	0.030	0.150	BM	n.a.	
3	Lactic Acid and HIBA	6.834	0.172	0.706	M *	1.7235	86
4	Acetic Acid	7.347	0.246	0.971	MB^	1.7982	90
5	Propionic acid	8.657	0.180	0.609	BMB^	1.7499	87
6	Butyric Acid	10.970	0.186	0.520	BMB^	2.1469	107
7	Pyruvic acid	12.700	0.148	0.448	BM	1.9995	100
8	i-Pentanoic Acid	13.140	0.159	0.438	MB	2.2181	111
9	Pentanoic Acid	16.200	0.150	0.370	BMB	2.1235	106
10	BAK	20.920	0.266	0.768	BM	n.a.	
11	i-Hexanoic Acid	21.590	0.122	0.247	MB	2.1580	108
12	Hexanoic Acid	24.520	0.121	0.217	BMB	2.0891	104



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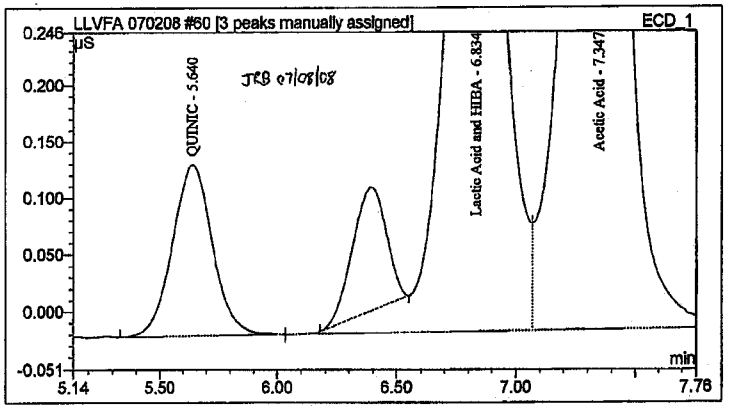
MICROSEEPS

Sample Analysis Report

Sample Name:	CCV	**Sequence No:**	60
Sequence Name:	LLVFA 070208	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	7/4/2008 5:57 AM	**Analytical Method:**	AM23G
System Operator:	chemware	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	5.640	0.030	0.150	BM	n.a.
3	Lactic Acid and HIBA	6.834	0.179	0.706	M	1.7810
4	Acetic Acid	7.347	0.246	0.971	MB^	1.7982
5	Propionic acid	8.657	0.180	0.609	BMB^	1.7499
6	Butyric Acid	10.970	0.186	0.520	BMB^	2.1469
7	Pyruvic acid	12.700	0.148	0.448	BM	1.9995
8	i-Pentanoic Acid	13.140	0.159	0.438	MB	2.2181
9	Pentanoic Acid	16.200	0.150	0.370	BMB	2.1235
10	BAK	20.920	0.266	0.768	BM	n.a.
11	i-Hexanoic Acid	21.590	0.122	0.247	MB	2.1580
12	Hexanoic Acid	24.520	0.121	0.217	BMB	2.0891



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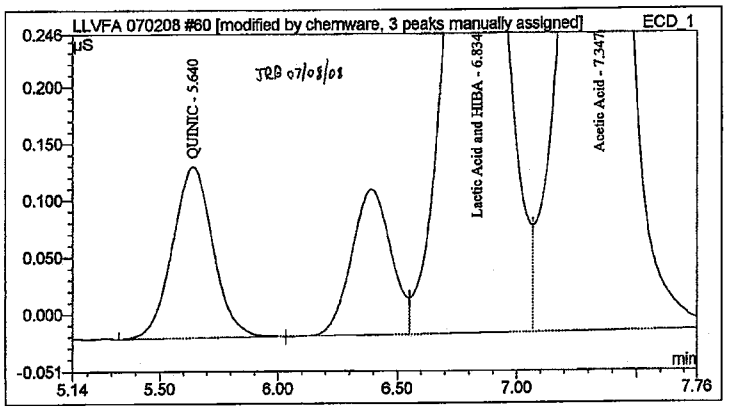
MICROSEEPS

Sample Analysis Report

Sample Name:	CCV	**Sequence No:**	60
Sequence Name:	LLVFA 070208	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	7/4/2008 5:57 AM	**Analytical Method:**	AM23G
System Operator:	chemware	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	5.640	0.030	0.150	BM	n.a.
3	Lactic Acid and HIBA	6.834	0.172	0.706	M *	1.7235
4	Acetic Acid	7.347	0.246	0.971	MB^	1.7982
5	Propionic acid	8.657	0.180	0.609	BMB^	1.7499
6	Butyric Acid	10.970	0.186	0.520	BMB^	2.1469
7	Pyruvic acid	12.700	0.148	0.448	BM	1.9995
8	i-Pentanoic Acid	13.140	0.159	0.438	MB	2.2181
9	Pentanoic Acid	16.200	0.150	0.370	BMB	2.1235
10	BAK	20.920	0.266	0.768	BM	n.a.
11	i-Hexanoic Acid	21.590	0.122	0.247	MB	2.1580
12	Hexanoic Acid	24.520	0.121	0.217	BMB	2.0891



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current time: 11:08 AM

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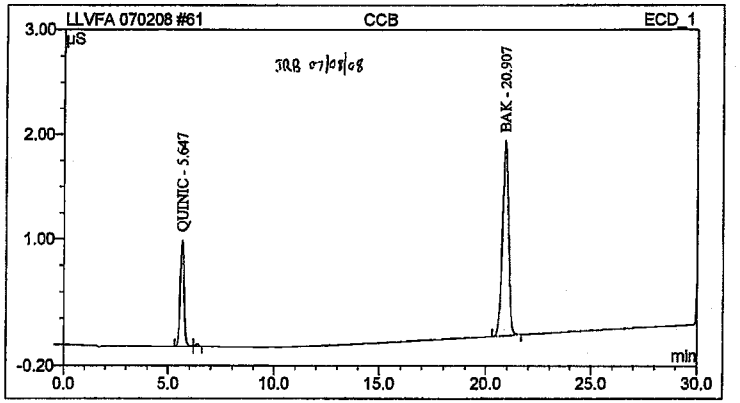
MICROSEEPS

Sample Analysis Report

Sample Name:	CCB	**Sequence No:**	61
Sequence Name:	LLVFA 070208	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	7/4/2008 6:38 AM	**Analytical Method:**	AM23G
System Operator:	chemware	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	5.647	0.198	1.005	BM	n.a.
3	BAK	20.907	0.635	1.855	BMB	n.a.



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BOE-C6-0188938

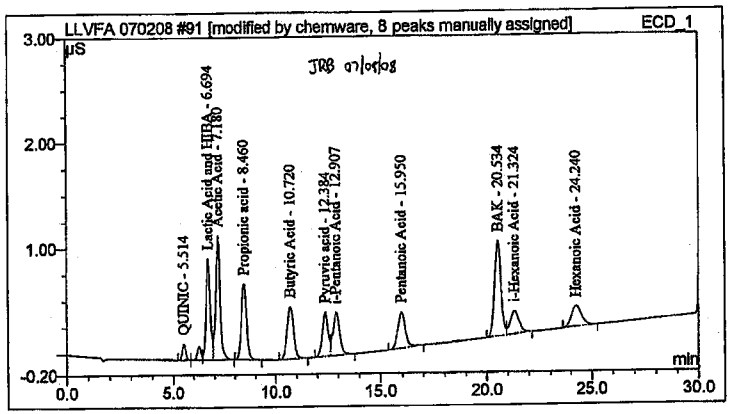
P0806296

MICROSEEPS

Sample Analysis Report

Sample Name:	CCV	**Sequence No:**	91
Sequence Name:	LLVFA 070208	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	7/7/2008 1:33 PM	**Analytical Method:**	AM23G
System Operator:	chemware	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM	% recovery
1	QUINIC	5.514	0.030	0.155	BM *^	n.a.	
3	Lactic Acid and HIBA	6.694	0.233	0.960	M *^	2.2639	113
4	Acetic Acid	7.180	0.311	1.179	MB^	2.2703	114
5	Propionic acid	8.460	0.209	0.718	BMB^	2.0285	101
6	Butyric Acid	10.720	0.176	0.496	BMB^	2.0249	101
7	Pyruvic acid	12.384	0.136	0.418	BM ^	1.8561	93
8	i-Pentanoic Acid	12.907	0.148	0.404	MB	2.0689	103
9	Pentanoic Acid	15.950	0.141	0.343	BMB	1.9934	100
10	BAK	20.534	0.311	0.902	BM *	n.a.	
11	i-Hexanoic Acid	21.324	0.107	0.216	MB*^	1.9036	95
12	Hexanoic Acid	24.240	0.108	0.194	BMB^	1.8790	94



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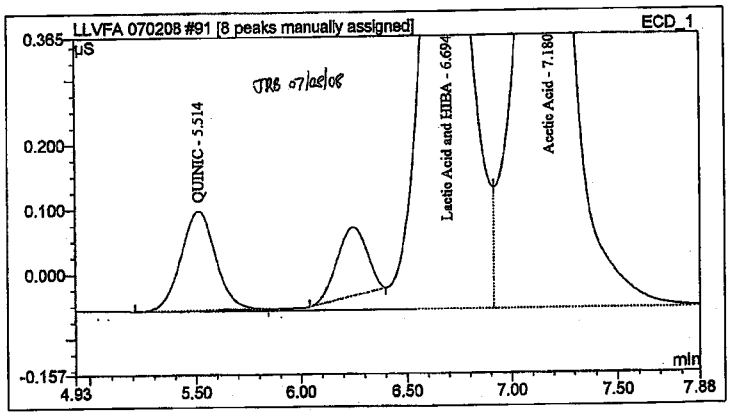
P0806296

MICROSEEPS

Sample Analysis Report

Sample Name:	CCV	**Sequence No:**	91
Sequence Name:	LLVFA 070208	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	7/7/2008 1:33 PM	**Analytical Method:**	AM23G
System Operator:	chemware	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	5.514	0.030	0.154	Ru^	n.a.
3	Lactic Acid and HIBA	6.694	0.240	0.960	BM ^	2.3342
4	Acetic Acid	7.180	0.311	1.179	MB^	2.2703
5	Propionic acid	8.460	0.209	0.718	BMB^	2.0285
6	Butyric Acid	10.720	0.176	0.496	BMB^	2.0249
7	Pyruvic acid	12.384	0.136	0.418	BM ^	1.8561
8	i-Pentanoic Acid	12.907	0.148	0.404	MB	2.0689
9	Pentanoic Acid	15.950	0.141	0.343	BMB	1.9934
10	BAK	20.534	0.342	0.902	BMB	n.a.
11	i-Hexanoic Acid	21.327	0.075	0.180	Rd^	1.3724
12	Hexanoic Acid	24.240	0.108	0.194	BMB^	1.8790



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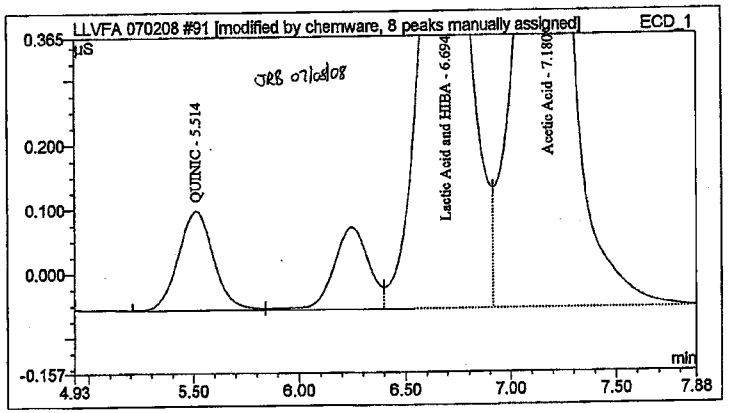
MICROSEEPS

Sample Analysis Report

Sample Name:	CCV	**Sequence No:**	91
Sequence Name:	LLVFA 070208	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	7/7/2008 1:33 PM	**Analytical Method:**	AM23G
System Operator:	chemware	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	5.514	0.030	0.155	BM *^	n.a.
3	Lactic Acid and HIBA	6.694	0.233	0.960	M *^	2.2639
4	Acetic Acid	7.180	0.311	1.179	MB^	2.2703
5	Propionic acid	8.460	0.209	0.718	BMB^	2.0285
6	Butyric Acid	10.720	0.176	0.496	BMB^	2.0249
7	Pyruvic acid	12.384	0.136	0.418	BM ^	1.8561
8	i-Pentanoic Acid	12.907	0.148	0.404	MB	2.0689
9	Pentanoic Acid	15.950	0.141	0.343	BMB	1.9934
10	BAK	20.534	0.342	0.902	BMB	n.a.
11	i-Hexanoic Acid	21.327	0.075	0.180	Rd^	1.3724
12	Hexanoic Acid	24.240	0.108	0.194	BMB^	1.8790

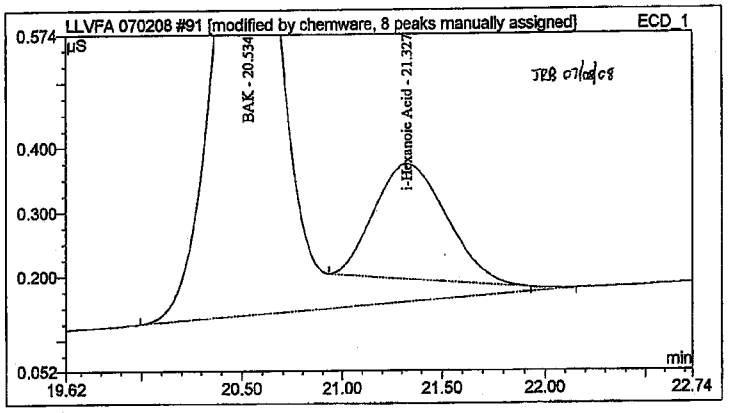


MICROSEEPS

Sample Analysis Report

Sample Name:	CCV	**Sequence No:**	91
Sequence Name:	LLVFA 070208	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	7/7/2008 1:33 PM	**Analytical Method:**	AM23G
System Operator:	chemware	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	5.514	0.030	0.155	BM *^	n.a.
3	Lactic Acid and HIBA	6.694	0.233	0.960	M *^	2.2639
4	Acetic Acid	7.180	0.311	1.179	MB^	2.2703
5	Propionic acid	8.460	0.209	0.718	BMB^	2.0285
6	Butyric Acid	10.720	0.176	0.496	BMB^	2.0249
7	Pyruvic acid	12.384	0.136	0.418	BM ^	1.8561
8	i-Pentanoic Acid	12.907	0.148	0.404	MB	2.0689
9	Pentanoic Acid	15.950	0.141	0.343	BMB	1.9934
10	BAK	20.534	0.342	0.902	BMB	n.a.
11	i-Hexanoic Acid	21.327	0.075	0.180	Rd^	1.3724
12	Hexanoic Acid	24.240	0.108	0.194	BMB^	1.8790



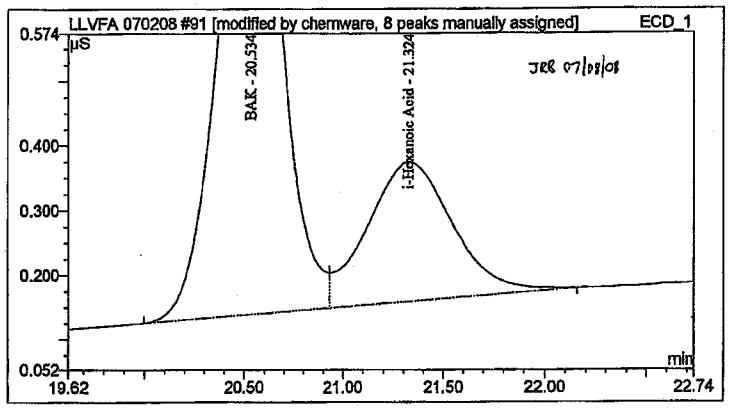
BOE-C6-0188940

MICROSEEPS

Sample Analysis Report

Sample Name:	CCV	**Sequence No:**	91
Sequence Name:	LLVFA 070208	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	7/7/2008 1:33 PM	**Analytical Method:**	AM23G
System Operator:	chemware	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	5.514	0.030	0.155	BM *^	n.a.
3	Lactic Acid and HIBA	6.694	0.233	0.960	M *^	2.2639
4	Acetic Acid	7.180	0.311	1.179	MB^	2.2703
5	Propionic acid	8.460	0.209	0.718	BMB^	2.0285
6	Butyric Acid	10.720	0.176	0.496	BMB^	2.0249
7	Pyruvic acid	12.384	0.136	0.418	BM ^	1.8561
8	i-Pentanoic Acid	12.907	0.148	0.404	MB	2.0669
9	Pentanoic Acid	15.950	0.141	0.343	BMB	1.9934
10	BAK	20.534	0.311	0.902	BM *	n.a.
11	i-Hexanoic Acid	21.324	0.107	0.216	MB*^	1.9036
12	Hexanoic Acid	24.240	0.108	0.194	BMB^	1.8790

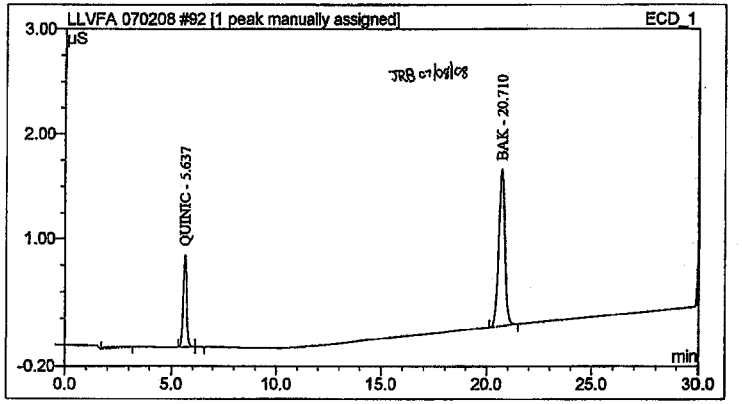


MICROSEEPS

Sample Analysis Report

Sample Name:	CCB	**Sequence No:**	92
Sequence Name:	LLVFA 070208	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	7/7/2008 4:21 PM	**Analytical Method:**	AM23G
System Operator:	chemware	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
2	QUINIC	5.637	0.170	0.868	BM ^	n.a.
4	BAK	20.710	0.509	1.486	BMB	n.a.



BOE-C6-0188941

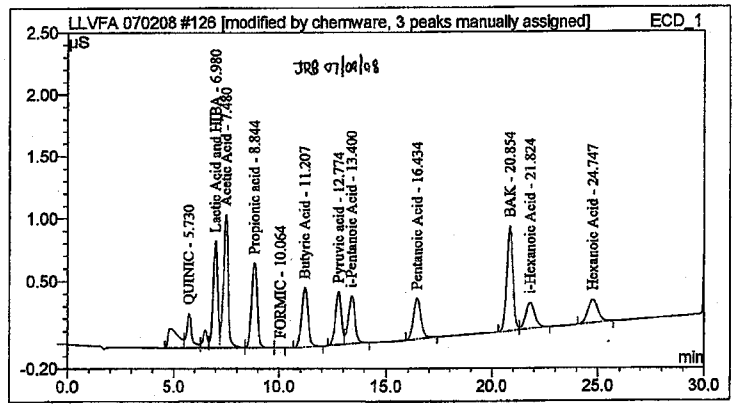
P0806296

MICROSEEPS

Sample Analysis Report

Sample Name:	CCV	**Sequence No:**	126
Sequence Name:	LLVFA 070208	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	7/8/2008 4:19 PM	**Analytical Method:**	AM23G
System Operator:	chemware	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM	% recovery
2	QUINIC	5.730	0.079	0.275	M	n.a.	
4	Lactic Acid and HIBA	6.980	0.209	0.854	M *^	2.0539	103
5	Acetic Acid	7.480	0.283	1.067	M	2.0697	103
6	Propionic acid	8.844	0.207	0.676	M ^	2.0083	100
7	FORMIC	10.064	0.002	0.007	MB	n.a.	
8	Butyric Acid	11.207	0.166	0.475	BMB	1.9196	96
9	Pyruvic acid	12.774	0.135	0.424	BM ^	1.8465	92
10	i-Pentanoic Acid	13.400	0.139	0.379	MB	1.9476	97
11	Pentanoic Acid	16.434	0.130	0.323	BMB	1.8525	93
12	BAK	20.854	0.281	0.832	BM	n.a.	
13	i-Hexanoic Acid	21.824	0.101	0.207	MB	1.8117	91
14	Hexanoic Acid	24.747	0.102	0.186	BMB	1.7757	89



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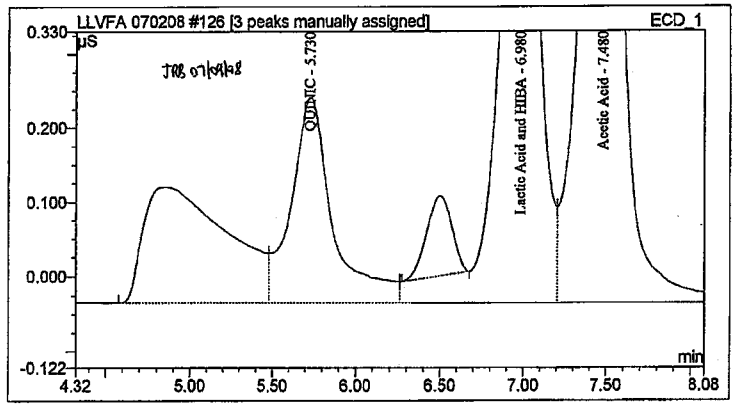
MICROSEEPS

Sample Analysis Report

Sample Name:	CCV	**Sequence No:**	126
Sequence Name:	LLVFA 070208	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	7/8/2008 4:19 PM	**Analytical Method:**	AM23G
System Operator:	chemware	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
2	QUINIC	5.730	0.079	0.275	M	n.a.
4	Lactic Acid and HIBA	6.980	0.223	0.854	M ^	2.1811
5	Acetic Acid	7.480	0.283	1.067	M	2.0697
6	Propionic acid	8.844	0.207	0.676	M ^	2.0083
7	FORMIC	10.064	0.002	0.007	MB	n.a.
8	Butyric Acid	11.207	0.166	0.475	BMB	1.9196
9	Pyruvic acid	12.774	0.135	0.424	BM ^	1.8465
10	i-Pentanoic Acid	13.400	0.139	0.379	MB	1.9476
11	Pentanoic Acid	16.434	0.130	0.323	BMB	1.8525
12	BAK	20.854	0.281	0.832	BM	n.a.
13	i-Hexanoic Acid	21.824	0.101	0.207	MB	1.8117
14	Hexanoic Acid	24.747	0.102	0.186	BMB	1.7757



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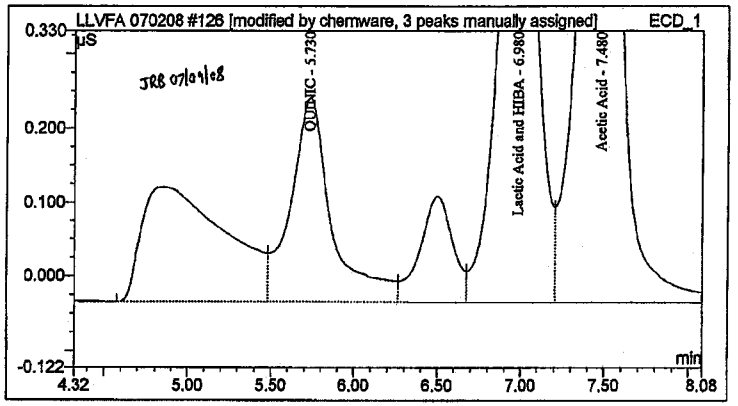
MICROSEEPS

Sample Analysis Report

Sample Name:	CCV	**Sequence No:**	126
Sequence Name:	LLVFA 070208	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	7/8/2008 4:19 PM	**Analytical Method:**	AM23G
System Operator:	chemware	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
2	QUINIC	5.730	0.079	0.275	M	n.a.
4	Lactic Acid and HIBA	6.980	0.209	0.854	M *^	2.0539
5	Acetic Acid	7.480	0.283	1.067	M	2.0697
6	Propionic acid	8.844	0.207	0.676	M ^	2.0083
7	FORMIC	10.064	0.002	0.007	MB	n.a.
8	Butyric Acid	11.207	0.166	0.475	BMB	1.9196
9	Pyruvic acid	12.774	0.135	0.424	BM ^	1.8465
10	i-Pentanoic Acid	13.400	0.139	0.379	MB	1.9476
11	Pentanoic Acid	16.434	0.130	0.323	BMB	1.8525
12	BAK	20.854	0.281	0.832	BM	n.a.
13	i-Hexanoic Acid	21.824	0.101	0.207	MB	1.8117
14	Hexanoic Acid	24.747	0.102	0.166	BMB	1.7757



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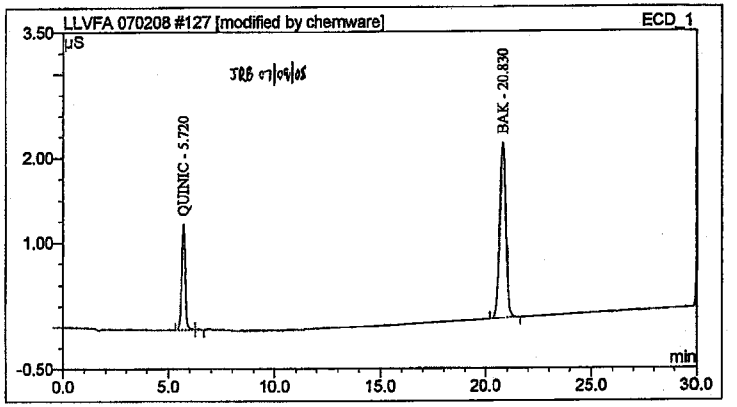
MICROSEEPS

Sample Analysis Report

Sample Name:	CCB	**Sequence No:**	127
Sequence Name:	LLVFA 070208	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	7/8/2008 5:00 PM	**Analytical Method:**	AM23G
System Operator:	chemware	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	5.720	0.250	1.251	BM	n.a.
3	BAK	20.830	0.695	2.066	BMB	n.a.



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BOE-C6-0188943

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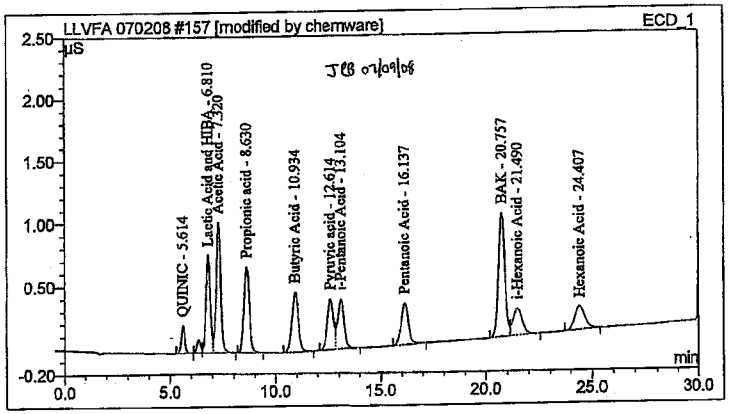
MICROSEEPS

Sample Analysis Report

Sample Name:	CCV	**Sequence No:**	157
Sequence Name:	LLVFA 070208	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	7/9/2008 1:34 PM	**Analytical Method:**	AM23G
System Operator:	chemware	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM	% recovery
1	QUINIC	5.614	0.044	0.221	BMB	n.a.	
3	Lactic Acid and HIBA	6.810	0.185	0.777	M *	1.8375	92
4	Acetic Acid	7.320	0.261	1.036	MB	1.9103	96
5	Propionic acid	8.630	0.201	0.680	BMB	1.9538	98
6	Butyric Acid	10.934	0.170	0.479	BMB	1.9603	98
7	Pyruvic acid	12.614	0.132	0.405	BM	1.8030	90
8	i-Pentanoic Acid	13.104	0.144	0.394	MB	2.0080	100
9	Pentanoic Acid	16.137	0.133	0.331	BMB	1.8944	95
10	BAK	20.757	0.336	0.980	BM *	n.a.	
11	i-Hexanoic Acid	21.490	0.105	0.214	MB*	1.8766	94
12	Hexanoic Acid	24.407	0.103	0.187	BMB	1.7938	90



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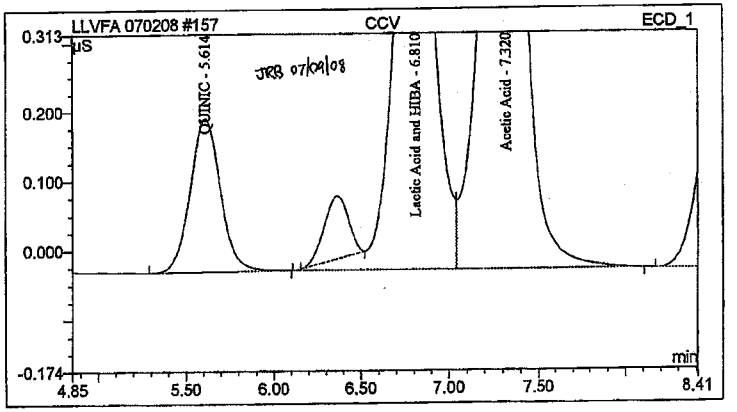
MICROSEEPS

Sample Analysis Report

Sample Name:	CCV	**Sequence No:**	157
Sequence Name:	LLVFA 070208	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	7/9/2008 1:34 PM	**Analytical Method:**	AM23G
System Operator:	chemware	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	5.614	0.044	0.221	BMB	n.a.
3	Lactic Acid and HIBA	6.810	0.190	0.777	BM	1.8845
4	Acetic Acid	7.320	0.261	1.036	MB	1.9103
5	Propionic acid	8.630	0.201	0.680	BMB	1.9538
6	Butyric Acid	10.934	0.170	0.479	BMB	1.9603
7	Pyruvic acid	12.614	0.132	0.405	BM	1.8030
8	i-Pentanoic Acid	13.104	0.144	0.394	MB	2.0080
9	Pentanoic Acid	16.137	0.133	0.331	BMB	1.8944
10	BAK	20.757	0.375	0.980	BMB	n.a.
11	i-Hexanoic Acid	21.504	0.066	0.166	Rd	1.2162
12	Hexanoic Acid	24.407	0.103	0.187	BMB	1.7938



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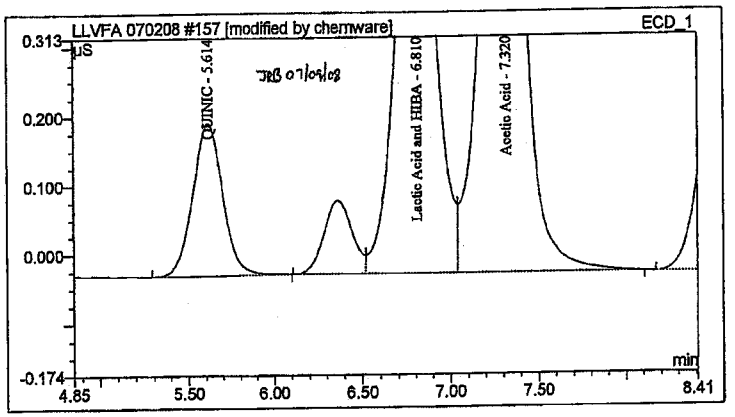
BOE-C6-0188944

MICROSEEPS

Sample Analysis Report

Sample Name:	CCV	**Sequence No:**	157
Sequence Name:	LLVFA 070208	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	7/9/2008 1:34 PM	**Analytical Method:**	AM23G
System Operator:	chemware	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	5.614	0.044	0.221	BMB	n.a.
3	Lactic Acid and HIBA	6.810	0.185	0.777	M *	1.8375
4	Acetic Acid	7.320	0.261	1.036	MB	1.9103
5	Propionic acid	8.630	0.201	0.680	BMB	1.9538
6	Butyric Acid	10.934	0.170	0.479	BMB	1.9603
7	Pyruvic acid	12.614	0.132	0.405	BM	1.8030
8	i-Pentanoic Acid	13.104	0.144	0.394	MB	2.0080
9	Pentanoic Acid	16.137	0.133	0.331	BMB	1.8944
10	BAK	20.757	0.375	0.980	BMB	n.a.
11	i-Hexanoic Acid	21.504	0.066	0.166	Rd	1.2162
12	Hexanoic Acid	24.407	0.103	0.187	BMB	1.7938

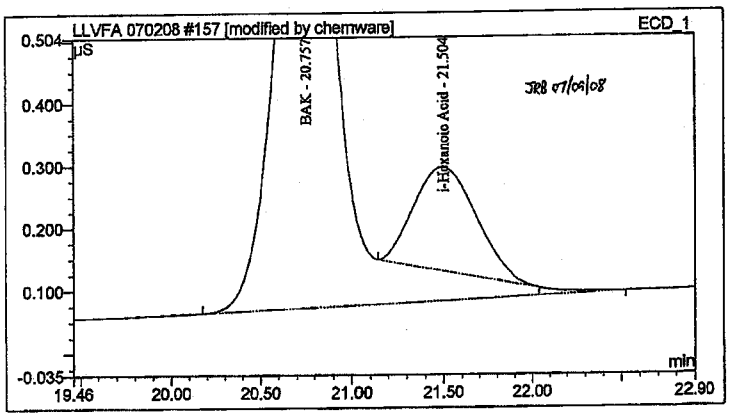


MICROSEEPS

Sample Analysis Report

Sample Name:	CCV	**Sequence No:**	157
Sequence Name:	LLVFA 070208	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	7/9/2008 1:34 PM	**Analytical Method:**	AM23G
System Operator:	chemware	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	5.614	0.044	0.221	BMB	n.a.
3	Lactic Acid and HIBA	6.810	0.185	0.777	M *	1.8375
4	Acetic Acid	7.320	0.261	1.036	MB	1.9103
5	Propionic acid	8.630	0.201	0.680	BMB	1.9538
6	Butyric Acid	10.934	0.170	0.479	BMB	1.9603
7	Pyruvic acid	12.614	0.132	0.405	BM	1.8030
8	i-Pentanoic Acid	13.104	0.144	0.394	MB	2.0080
9	Pentanoic Acid	16.137	0.133	0.331	BMB	1.8944
10	BAK	20.757	0.375	0.980	BMB	n.a.
11	i-Hexanoic Acid	21.504	0.066	0.166	Rd	1.2162
12	Hexanoic Acid	24.407	0.103	0.187	BMB	1.7938



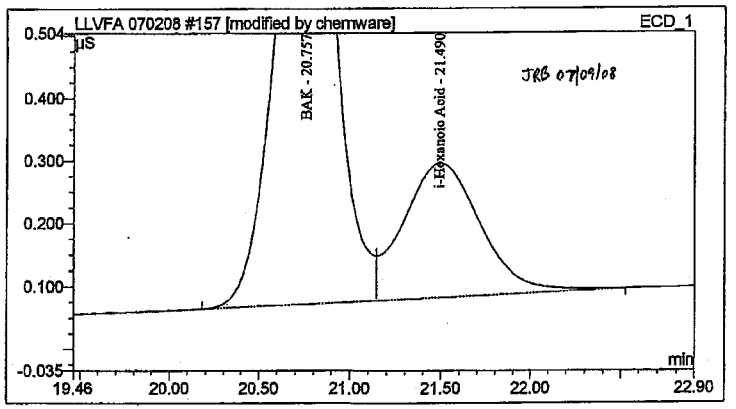
BOE-C6-0188945

MICROSEEPS

Sample Analysis Report

Sample Name:	CCV	**Sequence No:**	157
Sequence Name:	LLVFA 070208	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	7/9/2008 1:34 PM	**Analytical Method:**	AM23G
System Operator:	chemware	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	5.614	0.044	0.221	BMB	n.a.
3	Lactic Acid and HIBA	6.810	0.185	0.777	M *	1.8375
4	Acetic Acid	7.320	0.261	1.036	MB	1.9103
5	Propionic acid	8.630	0.201	0.680	BMB	1.9538
6	Butyric Acid	10.934	0.170	0.479	BMB	1.9603
7	Pyruvic acid	12.614	0.132	0.405	BM	1.8030
8	i-Pentanoic Acid	13.104	0.144	0.394	MB	2.0080
9	Pentanoic Acid	16.137	0.133	0.331	BMB	1.8944
10	BAK	20.757	0.336	0.980	BM *	n.a.
11	i-Hexanoic Acid	21.490	0.105	0.214	MB*	1.8766
12	Hexanoic Acid	24.407	0.103	0.187	BMB	1.7938



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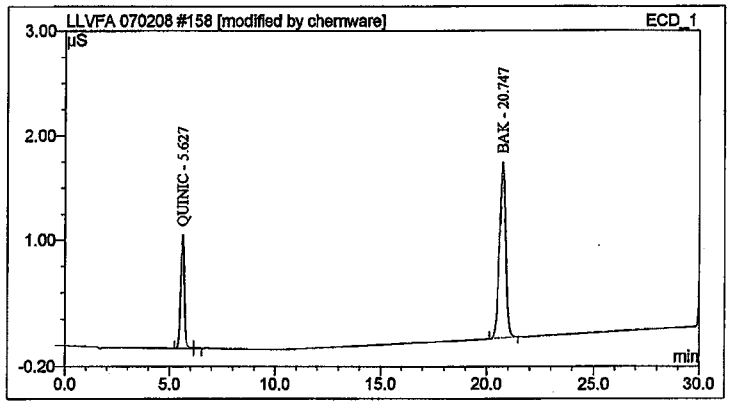
Sample Analysis Report

Sample Name:	CCB	**Sequence No:**	158
Sequence Name:	LLVFA 070208	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	7/9/2008 2:15 PM	**Analytical Method:**	AM23G
System Operator:	chemware	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	5.627	0.214	1.084	BM	n.a.
3	BAK	20.747	0.568	1.680	BMB	n.a.



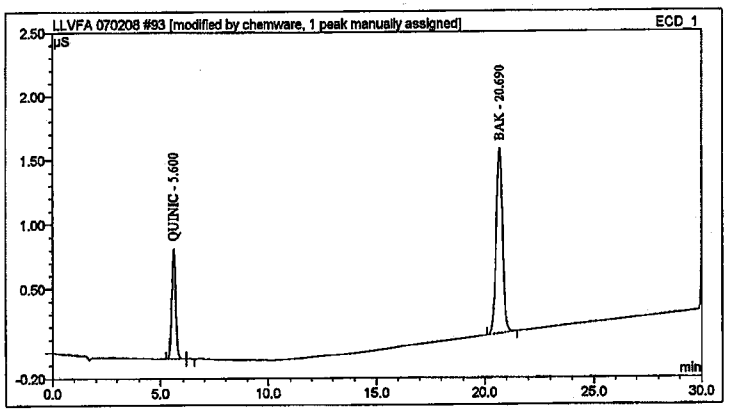
BOE-C6-0188946

MICROSEEPS

Sample Analysis Report

Sample Name:	M080626010-MB	**Sequence No:**	93
Sequence Name:	LLVFA 070208	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	7/7/2008 5:02 PM	**Analytical Method:**	AM23G
System Operator:	chemware	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	5.600	0.167	0.860	BMB^	n.a.
3	BAK	20.690	0.488	1.438	BMB	n.a.

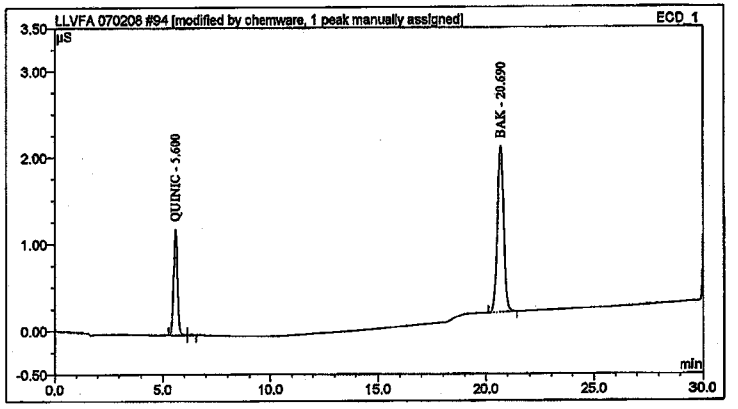


MICROSEEPS

Sample Analysis Report

Sample Name:	MB 070708	**Sequence No:**	94
Sequence Name:	LLVFA 070208	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	7/7/2008 5:43 PM	**Analytical Method:**	AM23G
System Operator:	chemware	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	5.600	0.240	1.219	BM ^	n.a.
3	BAK	20.690	0.650	1.914	BMB	n.a.



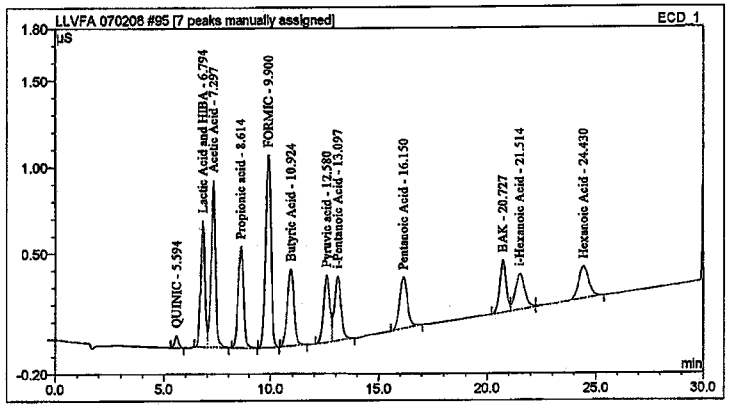
BOE-C6-0188947

MICROSEEPS

Sample Analysis Report

Sample Name:	M080626010-LCS	**Sequence No:**	95
Sequence Name:	LLVFA 070208	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	7/7/2008 6:24 PM	**Analytical Method:**	AM23G
System Operator:	chemware	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	5.594	0.014	0.071	BMB^	n.a.
2	Lactic Acid and HIBA	6.794	0.172	0.736	BM ^	1.7196
3	Acetic Acid	7.297	0.243	0.968	MB	1.7804
4	Propionic acid	8.614	0.175	0.591	BMB^	1.7012
5	FORMIC	9.900	0.324	1.118	BMB^	n.a.
6	Butyric Acid	10.924	0.156	0.447	BMB^	1.8010
7	Pyruvic acid	12.580	0.127	0.392	BM ^	1.7454
8	i-Pentanoic Acid	13.097	0.136	0.375	MB	1.9121
9	Pentanoic Acid	16.150	0.125	0.298	BMB	1.7762
10	BAK	20.727	0.107	0.306	BM	n.a.
11	i-Hexanoic Acid	21.514	0.104	0.206	M ^	1.8547
12	Hexanoic Acid	24.430	0.102	0.185	MB	1.7764

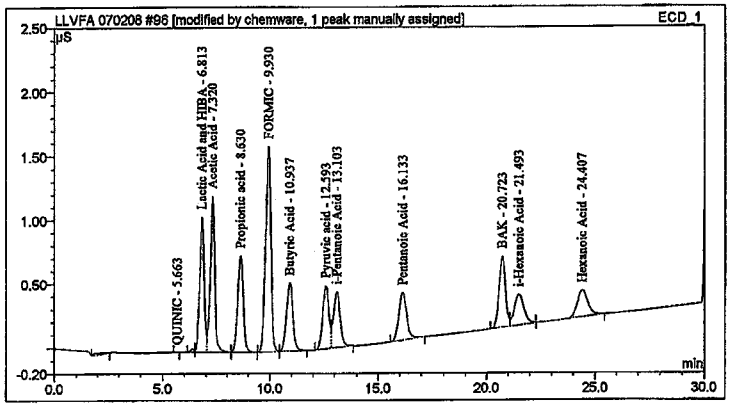


MICROSEEPS

Sample Analysis Report

Sample Name:	LCS 070708	**Sequence No:**	96
Sequence Name:	LLVFA 070208	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	7/7/2008 7:05 PM	**Analytical Method:**	AM23G
System Operator:	chemware	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
2	QUINIC	5.663	0.000	0.001	BMB*	n.a.
4	Lactic Acid and HIBA	6.813	0.253	1.063	M ^	2.4471
5	Acetic Acid	7.320	0.319	1.221	M	2.3307
6	Propionic acid	8.630	0.229	0.757	MB	2.2258
7	FORMIC	9.930	0.478	1.609	BM	n.a.
8	Butyric Acid	10.937	0.186	0.531	MB	2.1429
9	Pyruvic acid	12.593	0.161	0.492	BM	2.1489
10	i-Pentanoic Acid	13.103	0.157	0.433	MB	2.1971
11	Pentanoic Acid	16.133	0.151	0.371	BMB	2.1374
12	BAK	20.723	0.193	0.557	BM	n.a.
13	i-Hexanoic Acid	21.493	0.122	0.240	M	2.1550
14	Hexanoic Acid	24.407	0.114	0.206	MB	1.9772



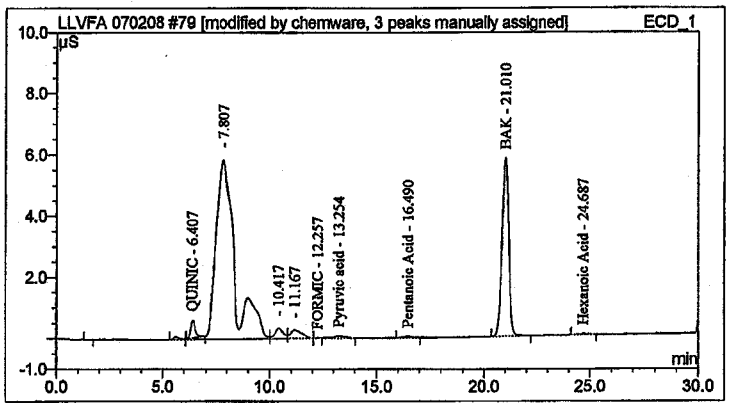
BOE-C6-0188948

MICROSEEPS

Sample Analysis Report

Sample Name:	P0806296-01A	**Sequence No:**	79
Sequence Name:	LLVFA 070208	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	7/4/2008 6:58 PM	**Analytical Method:**	AM23G
System Operator:	chemware	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
3	QUINIC	6.407	0.139	0.579	Ru	n.a.
7	FORMIC	12.257	0.001	0.007	Ru	n.a.
8	Pyruvic acid	13.254	0.050	0.069	BMB	0.7711
9	Pentanoic Acid	16.490	0.019	0.033	BMB	0.3182
10	BAK	21.010	2.099	5.805	BMB	n.a.
11	Hexanoic Acid	24.687	0.016	0.032	BMB	0.3469

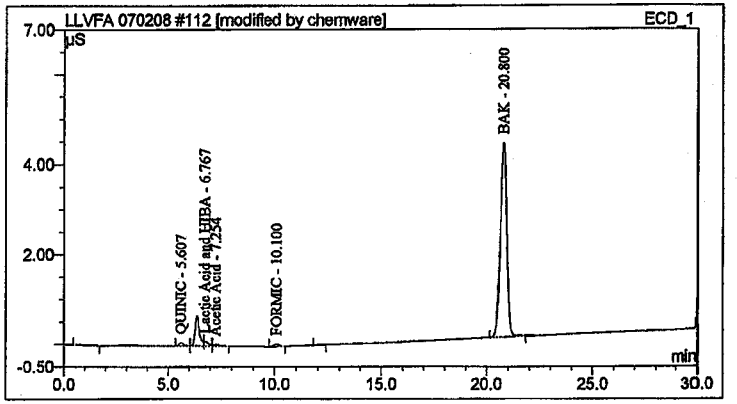


MICROSEEPS

Sample Analysis Report

Sample Name:	P0806296-01A RERUN	**Sequence No:**	112
Sequence Name:	LLVFA 070208	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	7/8/2008 6:03 AM	**Analytical Method:**	AM23G
System Operator:	chemware	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
2	QUINIC	5.607	0.018	0.071	BM *	n.a.
4	Lactic Acid and HIBA	6.767	0.023	0.093	M *	0.3097
5	Acetic Acid	7.254	0.010	0.030	MB	0.0899
6	FORMIC	10.100	0.011	0.041	BMB	n.a.
8	BAK	20.800	1.493	4.306	BMB	n.a.



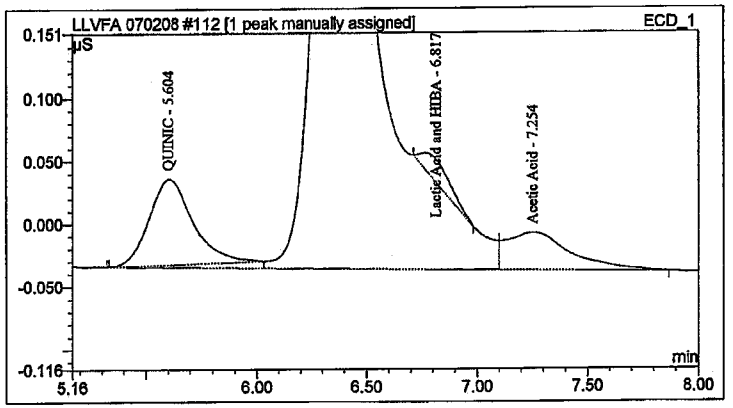
BOE-C6-0188949

MICROSEEPS

Sample Analysis Report

Sample Name:	P0806296-01A RERUN	**Sequence No:**	112
Sequence Name:	LLVFA 070208	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	7/8/2008 6:03 AM	**Analytical Method:**	AM23G
System Operator:	chemware	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
2	QUINIC	5.604	0.016	0.069	Ru	n.a.
4	Lactic Acid and HIBA	6.817	0.003	0.019	Rd^	0.1097
5	Acetic Acid	7.254	0.010	0.030	MB	0.0899
6	FORMIC	10.100	0.011	0.041	BMB	n.a.
8	BAK	20.800	1.493	4.306	BMB	n.a.

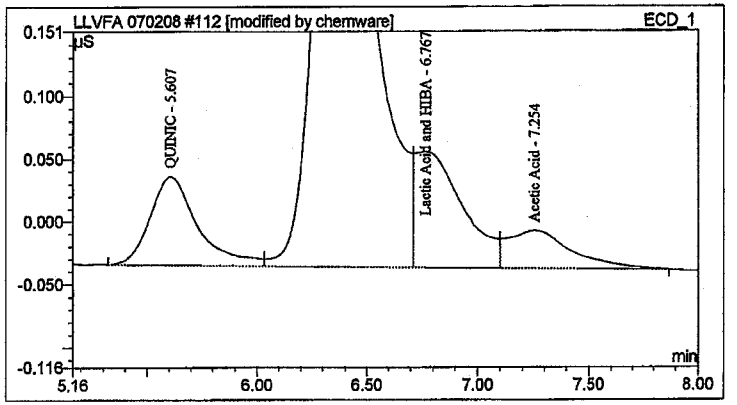


MICROSEEPS

Sample Analysis Report

Sample Name:	P0806296-01A RERUN	**Sequence No:**	112
Sequence Name:	LLVFA 070208	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	7/8/2008 6:03 AM	**Analytical Method:**	AM23G
System Operator:	chemware	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
2	QUINIC	5.607	0.018	0.071	BM *	n.a.
4	Lactic Acid and HIBA	6.767	0.023	0.093	M *	0.3097
5	Acetic Acid	7.254	0.010	0.030	MB	0.0899
6	FORMIC	10.100	0.011	0.041	BMB	n.a.
8	BAK	20.800	1.493	4.306	BMB	n.a.



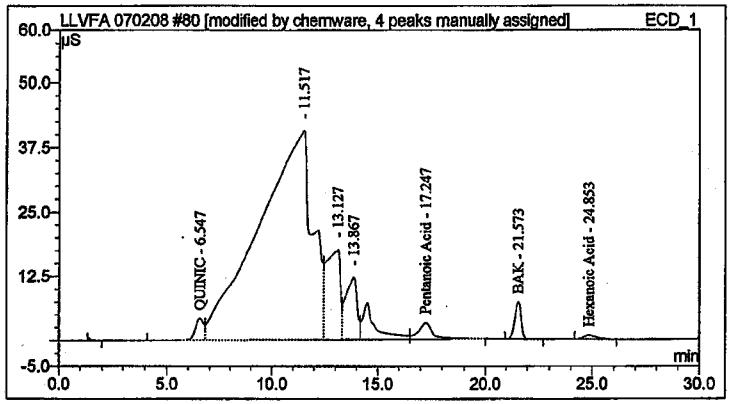
BOE-C6-0188950

MICROSEEPS

Sample Analysis Report

Sample Name:	P0806296-02A	**Sequence No:**	80
Sequence Name:	LLVFA 070208	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	7/4/2008 7:39 PM	**Analytical Method:**	AM23G
System Operator:	chemware	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
2	QUINIC	6.547	1.909	4.212	BM *	n.a.
7	Pentanoic Acid	17.247	2.425	3.150	MB^	29.3829
8	BAK	21.573	2.461	7.186	BMB	n.a.
9	Hexanoic Acid	24.853	0.486	0.786	BMB	7.6087

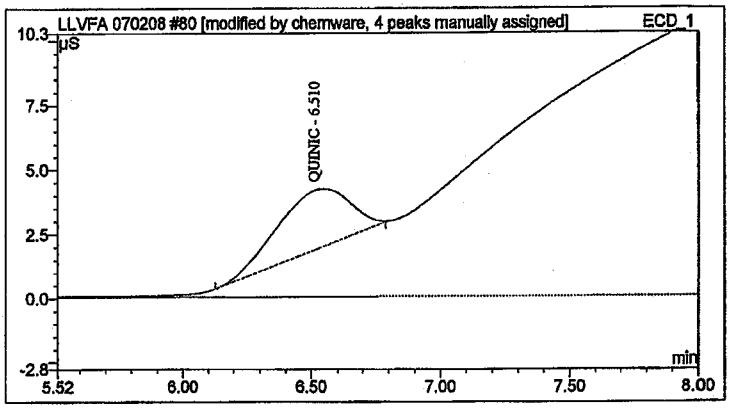


MICROSEEPS

Sample Analysis Report

Sample Name:	P0806296-02A	**Sequence No:**	80
Sequence Name:	LLVFA 070208	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	7/4/2008 7:39 PM	**Analytical Method:**	AM23G
System Operator:	chemware	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
2	QUINIC	6.510	0.757	2.312	Ru	n.a.
7	Pentanoic Acid	17.247	2.425	3.150	MB^	29.3829
8	BAK	21.573	2.461	7.186	BMB	n.a.
9	Hexanoic Acid	24.853	0.486	0.786	BMB	7.6087



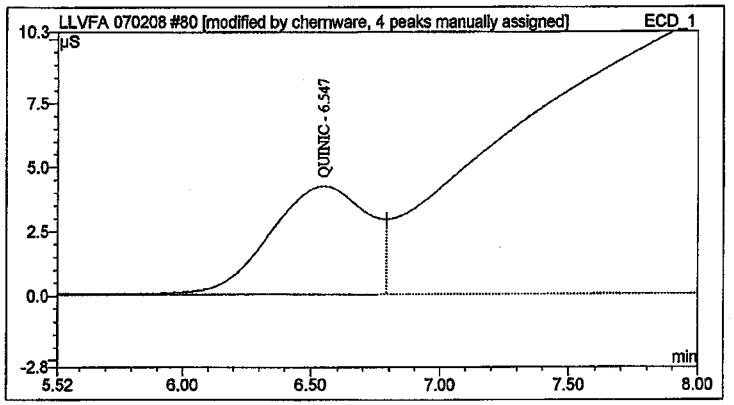
BOE-C6-0188951

MICROSEEPS

Sample Analysis Report

Sample Name:	P0806296-02A	**Sequence No:**	80
Sequence Name:	LLVFA 070208	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	7/4/2008 7:39 PM	**Analytical Method:**	AM23G
System Operator:	chemware	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
2	QUINIC	6.547	1.909	4.212	BM *	n.a.
7	Pentanoic Acid	17.247	2.425	3.150	MB^	29.3829
8	BAK	21.573	2.461	7.186	BMB	n.a.
9	Hexanoic Acid	24.853	0.486	0.786	BMB	7.6087

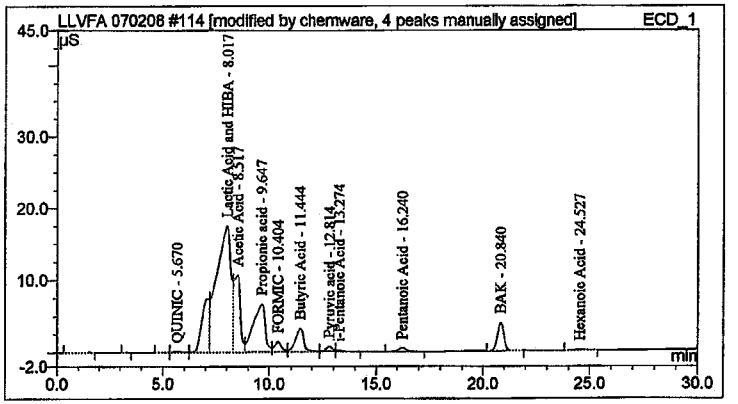


MICROSEEPS

Sample Analysis Report

Sample Name:	P0806296-02A 10X	**Sequence No:**	114
Sequence Name:	LLVFA 070208	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	7/8/2008 7:25 AM	**Analytical Method:**	AM23G
System Operator:	chemware	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
4	QUINIC	5.670	0.058	0.128	BM	n.a.
6	Lactic Acid and HIBA	8.017	13.579	17.525	M *^	53.7378
7	Acetic Acid	8.517	3.882	10.734	M ^	27.9804
8	Propionic acid	9.647	4.422	6.705	M *^	44.8677
9	FORMIC	10.404	0.545	1.420	M *	n.a.
10	Butyric Acid	11.444	1.561	3.302	M ^	17.4443
11	Pyruvic acid	12.814	0.275	0.738	M *	3.4109
12	I-Pentanoic Acid	13.274	0.084	0.226	MB*	1.1914
13	Pentanoic Acid	16.240	0.225	0.505	BMB	3.1316
14	BAK	20.840	1.377	3.950	BMB	n.a.
15	Hexanoic Acid	24.527	0.052	0.097	BMB	0.9562



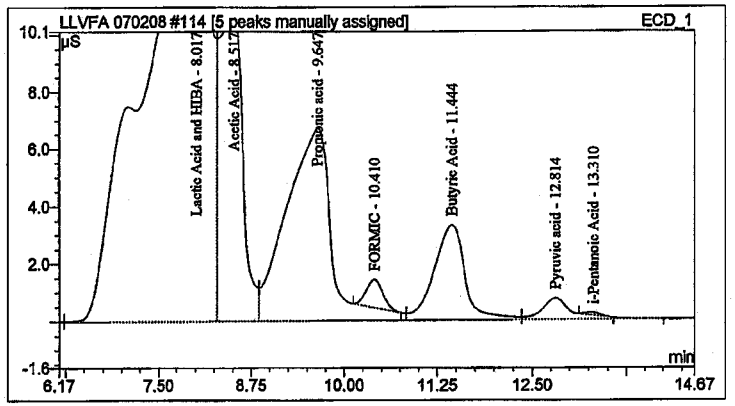
BOE-C6-0188952

MICROSEEPS

Sample Analysis Report

Sample Name:	P0806296-02A 10X	**Sequence No:**	114
Sequence Name:	LLVFA 070208	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	7/8/2008 7:25 AM	**Analytical Method:**	AM23G
System Operator:	chemware	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
4	QUINIC	5.670	0.058	0.128	BM	n.a.
5	Lactic Acid and HIBA	8.017	16.553	17.525	M ^	60.7246
6	Acetic Acid	8.517	3.882	10.734	M ^	27.9804
7	Propionic acid	9.647	4.711	6.705	M ^	48.0215
8	FORMIC	10.410	0.256	0.980	Rd^	n.a.
9	Butyric Acid	11.444	1.561	3.302	M ^	17.4443
10	Pyruvic acid	12.814	0.337	0.738	MB	4.0409
11	i-Pentanoic Acid	13.310	0.022	0.095	Rd	0.3450
12	Pentanoic Acid	16.240	0.225	0.505	BMB	3.1316
13	BAK	20.840	1.377	3.950	BMB	n.a.
14	Hexanoic Acid	24.527	0.052	0.097	BMB	0.9562

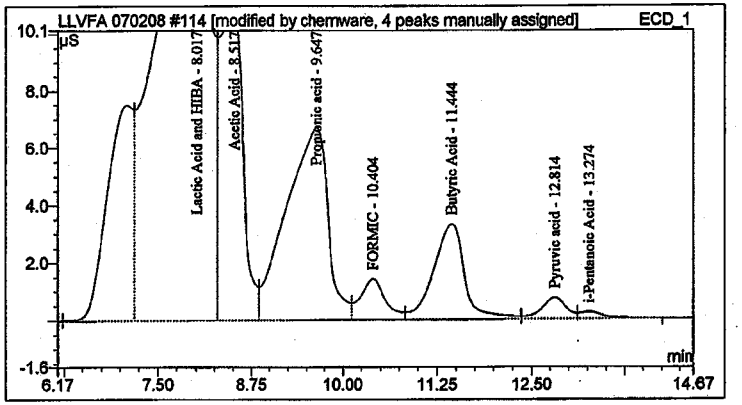


MICROSEEPS

Sample Analysis Report

Sample Name:	P0806296-02A 10X	**Sequence No:**	114
Sequence Name:	LLVFA 070208	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	7/8/2008 7:25 AM	**Analytical Method:**	AM23G
System Operator:	chemware	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
4	QUINIC	5.670	0.058	0.128	BM	n.a.
6	Lactic Acid and HIBA	8.017	13.579	17.525	M *^	53.7378
7	Acetic Acid	8.517	3.882	10.734	M ^	27.9804
8	Propionic acid	9.647	4.422	6.705	M *^	44.8877
9	FORMIC	10.404	0.545	1.420	M *	n.a.
10	Butyric Acid	11.444	1.561	3.302	M ^	17.4443
11	Pyruvic acid	12.814	0.275	0.738	M *	3.4109
12	i-Pentanoic Acid	13.274	0.084	0.226	MB*	1.1914
13	Pentanoic Acid	16.240	0.225	0.505	BMB	3.1316
14	BAK	20.840	1.377	3.950	BMB	n.a.
15	Hexanoic Acid	24.527	0.052	0.097	BMB	0.9562



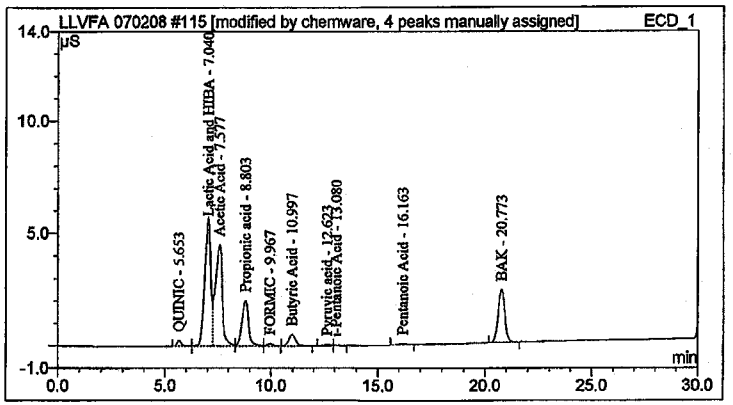
BOE-C6-0188953

MICROSEEPS

Sample Analysis Report

Sample Name:	P0806296-02A 100X	**Sequence No:**	115
Sequence Name:	LLVFA 070208	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	7/8/2008 8:06 AM	**Analytical Method:**	AM23G
System Operator:	chemware	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	5.653	0.070	0.266	BM	n.a.
2	Lactic Acid and HIBA	7.040	1.956	5.724	M ^	14.0451
3	Acetic Acid	7.577	1.726	4.528	M ^	12.4979
4	Propionic acid	8.803	0.736	2.016	M ^	7.1287
5	FORMIC	9.967	0.037	0.109	MB^	n.a.
6	Butyric Acid	10.997	0.188	0.505	BMB	2.1658
7	Pyruvic acid	12.623	0.024	0.066	BM *	0.4080
8	i-Pentanoic Acid	13.080	0.008	0.023	MB*	0.1573
9	Pentanoic Acid	16.163	0.023	0.054	BMB	0.3690
10	BAK	20.773	0.832	2.346	BMB	n.a.

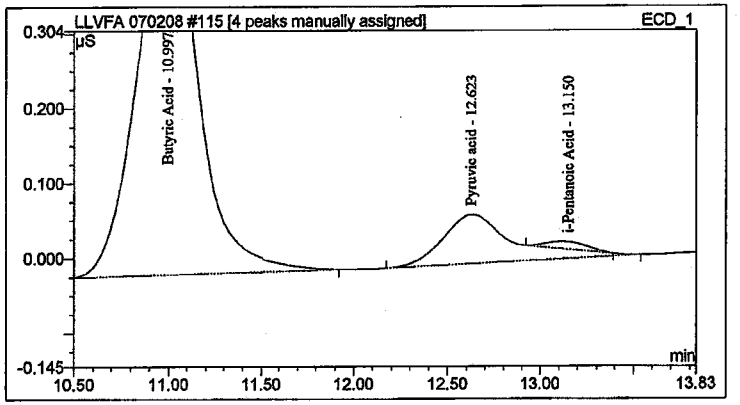


MICROSEEPS

Sample Analysis Report

Sample Name:	P0806296-02A 100X	**Sequence No:**	115
Sequence Name:	LLVFA 070208	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	7/8/2008 8:06 AM	**Analytical Method:**	AM23G
System Operator:	chemware	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	5.653	0.070	0.266	BM	n.a.
2	Lactic Acid and HIBA	7.040	1.956	5.724	M ^	14.0451
3	Acetic Acid	7.577	1.726	4.528	M ^	12.4979
4	Propionic acid	8.803	0.736	2.016	M ^	7.1287
5	FORMIC	9.967	0.037	0.109	MB^	n.a.
6	Butyric Acid	10.997	0.188	0.505	BMB	2.1658
7	Pyruvic acid	12.623	0.029	0.066	BMB	0.4878
8	i-Pentanoic Acid	13.150	0.002	0.010	Rd	0.0777
9	Pentanoic Acid	16.163	0.023	0.054	BMB	0.3690
10	BAK	20.773	0.832	2.346	BMB	n.a.



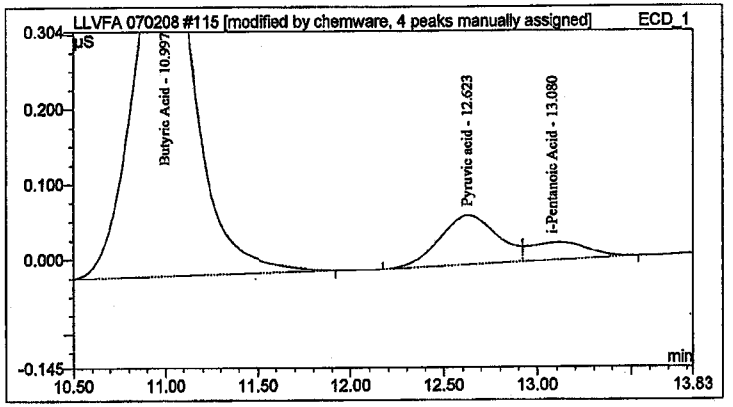
BOE-C6-0188954

MICROSEEPS

Sample Analysis Report

Sample Name:	P0806296-02A 100X	**Sequence No:**	115
Sequence Name:	LLVFA 070208	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	7/8/2008 8:06 AM	**Analytical Method:**	AM23G
System Operator:	chemware	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	5.653	0.070	0.266	BM	n.a.
2	Lactic Acid and HIBA	7.040	1.956	5.724	M ^	14.0451
3	Acetic Acid	7.577	1.726	4.528	M ^	12.4979
4	Propionic acid	8.803	0.736	2.016	M ^	7.1287
5	FORMIC	9.967	0.037	0.109	MB^	n.a.
6	Butyric Acid	10.997	0.188	0.505	BMB	2.1658
7	Pyruvic acid	12.623	0.024	0.066	BM *	0.4080
8	i-Pentanoic Acid	13.080	0.008	0.023	MB*	0.1573
9	Pentanoic Acid	16.163	0.023	0.054	BMB	0.3690
10	BAK	20.773	0.832	2.346	BMB	n.a.

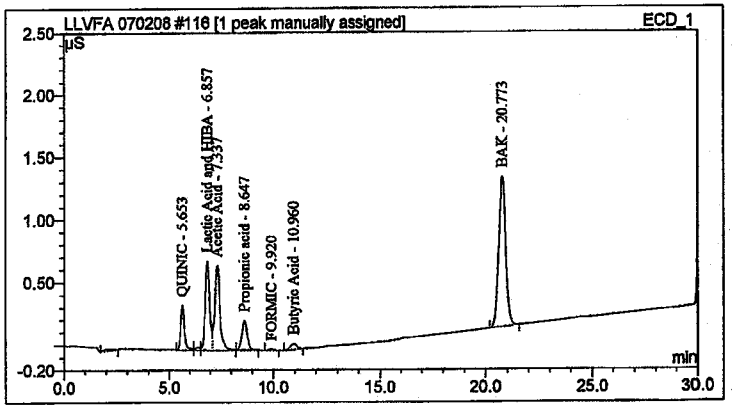


MICROSEEPS

Sample Analysis Report

Sample Name:	P0806296-02A 1000X	**Sequence No:**	116
Sequence Name:	LLVFA 070208	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	7/8/2008 8:47 AM	**Analytical Method:**	AM23G
System Operator:	chemware	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
2	QUINIC	5.653	0.075	0.354	BM	n.a.
4	Lactic Acid and HIBA	6.857	0.172	0.709	M ^	1.7200
5	Acetic Acid	7.337	0.192	0.674	MB	1.4111
6	Propionic acid	8.647	0.068	0.235	BMB	0.6771
7	FORMIC	9.920	0.003	0.010	BMB	n.a.
8	Butyric Acid	10.960	0.015	0.045	BMB	0.2223
9	BAK	20.773	0.431	1.197	BMB	n.a.



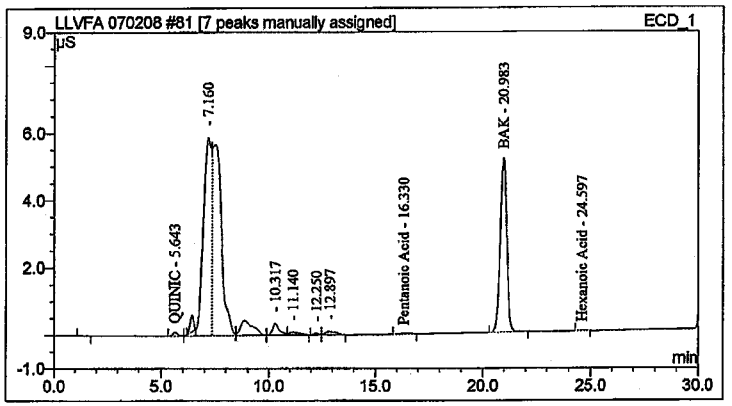
BOE-C6-0188955

MICROSEEPS

Sample Analysis Report

Sample Name:	P0806296-03A	**Sequence No:**	81
Sequence Name:	LLVFA 070208	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	7/4/2008 8:20 PM	**Analytical Method:**	AM23G
System Operator:	chemware	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
2	QUINIC	5.643	0.029	0.118	BM ^	n.a.
11	Pentanoic Acid	16.330	0.010	0.017	BMB^	0.1992
12	BAK	20.983	1.849	5.182	BMB	n.a.
13	Hexanoic Acid	24.597	0.003	0.007	BMB	0.1146

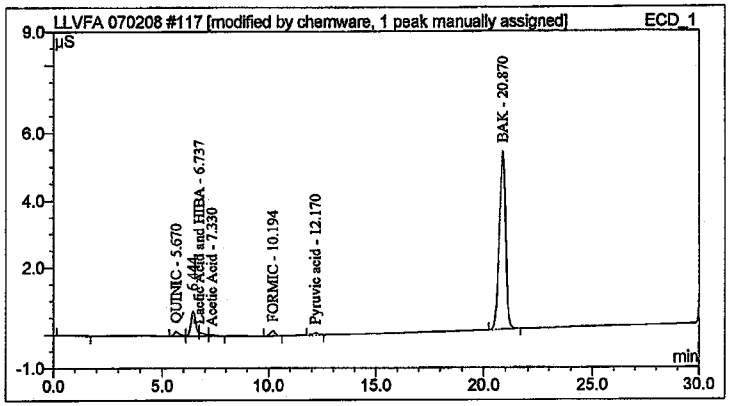


MICROSEEPS

Sample Analysis Report

Sample Name:	P0806296-03A RERUN	**Sequence No:**	117
Sequence Name:	LLVFA 070208	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	7/8/2008 9:28 AM	**Analytical Method:**	AM23G
System Operator:	chemware	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
2	QUINIC	5.670	0.037	0.131	BM *	n.a.
4	Lactic Acid and HIBA	6.737	0.029	0.102	M *	0.3713
5	Acetic Acid	7.330	0.012	0.039	MB*	0.1064
6	FORMIC	10.194	0.043	0.159	BMB	n.a.
7	Pyruvic acid	12.170	0.018	0.062	BMB	0.3365
8	BAK	20.870	1.837	5.294	BMB	n.a.



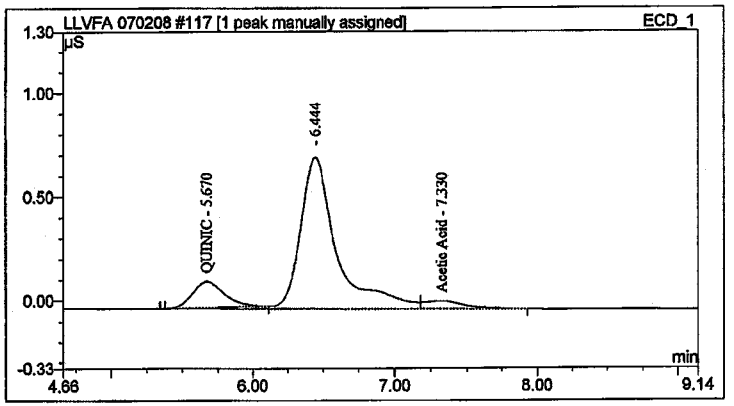
BOE-C6-0188956

MICROSEEPS

Sample Analysis Report

Sample Name:	P0806296-03A RERUN	**Sequence No:**	117
Sequence Name:	LLVFA 070208	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	7/8/2008 9:28 AM	**Analytical Method:**	AM23G
System Operator:	chemware	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
2	QUINIC	5.670	0.033	0.127	Ru	n.a.
4	Acetic Acid	7.330	0.012	0.039	MB	0.1064
5	FORMIC	10.194	0.043	0.159	BMB	n.a.
6	Pyruvic acid	12.170	0.018	0.062	BMB	0.3365
7	BAK	20.870	1.837	5.294	BMB	n.a.

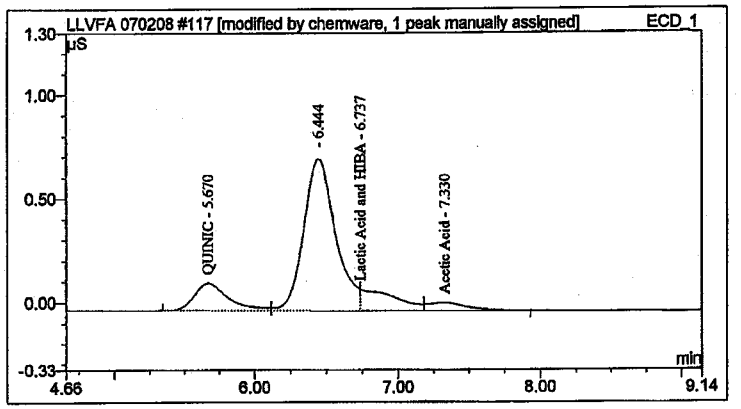


MICROSEEPS

Sample Analysis Report

Sample Name:	P0806296-03A RERUN	**Sequence No:**	117
Sequence Name:	LLVFA 070208	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	7/8/2008 9:28 AM	**Analytical Method:**	AM23G
System Operator:	chemware	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
2	QUINIC	5.670	0.037	0.131	BM *	n.a.
4	Lactic Acid and HIBA	6.737	0.029	0.102	M *	0.3713
5	Acetic Acid	7.330	0.012	0.039	MB*	0.1064
6	FORMIC	10.194	0.043	0.159	BMB	n.a.
7	Pyruvic acid	12.170	0.018	0.062	BMB	0.3365
8	BAK	20.870	1.837	5.294	BMB	n.a.



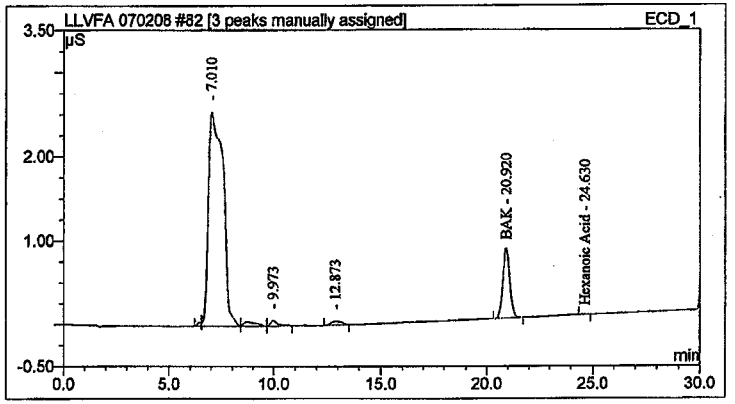
BOE-C6-0188957

MICROSEEPS

Sample Analysis Report

Sample Name:	P0806296-04A	**Sequence No:**	82
Sequence Name:	LLVFA 070208	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	7/4/2008 9:01 PM	**Analytical Method:**	AM23G
System Operator:	chemware	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
6	BAK	20.920	0.320	0.837	BMB	n.a.
7	Hexanoic Acid	24.630	0.001	0.004	BMB	0.0860

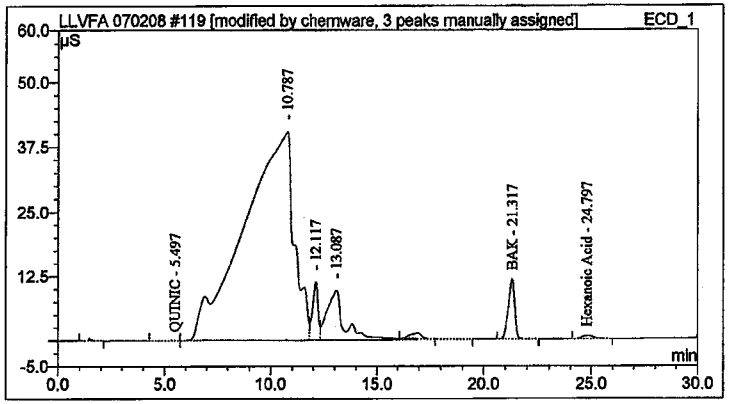


MICROSEEPS

Sample Analysis Report

Sample Name:	P0806296-04A RERUN	**Sequence No:**	119
Sequence Name:	LLVFA 070208	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	7/8/2008 10:51 AM	**Analytical Method:**	AM23G
System Operator:	chemware	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
2	QUINIC	5.497	0.015	0.018	BM	n.a.
7	BAK	21.317	4.135	11.763	BMB	n.a.
8	Hexanoic Acid	24.797	0.388	0.656	BMB	6.2134



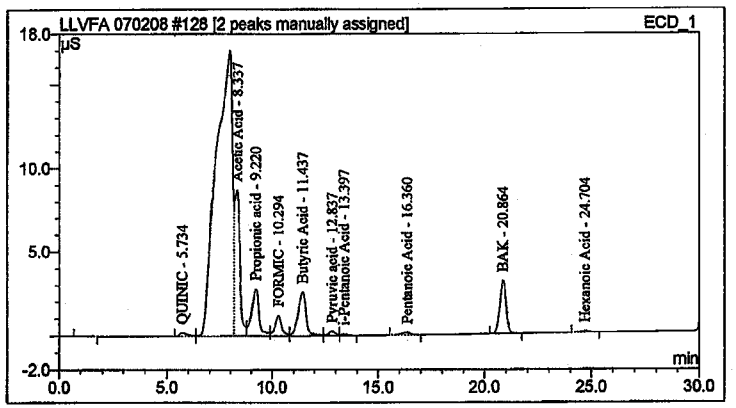
BOE-C6-0188958

MICROSEEPS

Sample Analysis Report

Sample Name:	P0806296-04A 10X	**Sequence No:**	128
Sequence Name:	LLVFA 070208	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	7/8/2008 5:42 PM	**Analytical Method:**	AM23G
System Operator:	chemware	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
2	QUINIC	5.734	0.078	0.195	BM	n.a.
4	Acetic Acid	8.337	2.688	8.738	M ^	19.4276
5	Propionic acid	9.220	1.128	2.780	M ^	10.9735
6	FORMIC	10.294	0.423	1.193	M	n.a.
7	Butyric Acid	11.437	1.086	2.560	M	12.1857
8	Pyruvic acid	12.837	0.085	0.237	M	1.2269
9	i-Pentanoic Acid	13.397	0.027	0.075	MB	0.4167
10	Pentanoic Acid	16.360	0.075	0.142	BMB	1.0994
11	BAK	20.864	1.070	3.153	BMB	n.a.
12	Hexanoic Acid	24.704	0.038	0.071	BMB	0.7073

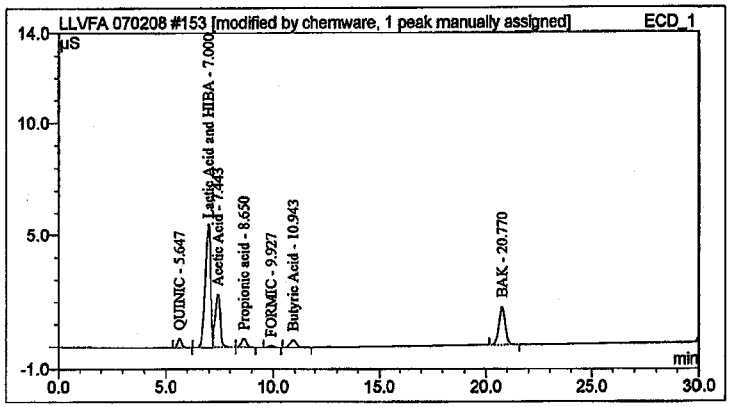


MICROSEEPS

Sample Analysis Report

Sample Name:	P0806296-04A 100X	**Sequence No:**	153
Sequence Name:	LLVFA 070208	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	7/9/2008 10:49 AM	**Analytical Method:**	AM23G
System Operator:	chemware	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	5.647	0.085	0.391	BMB^	n.a.
2	Lactic Acid and HIBA	7.000	1.589	5.506	BM	11.9317
3	Acetic Acid	7.443	0.652	2.359	Mb	4.7461
4	Propionic acid	8.650	0.105	0.375	bMB	1.0364
5	FORMIC	9.927	0.024	0.081	BMB	n.a.
6	Butyric Acid	10.943	0.114	0.324	BMB	1.3333
7	BAK	20.770	0.594	1.699	BMB	n.a.



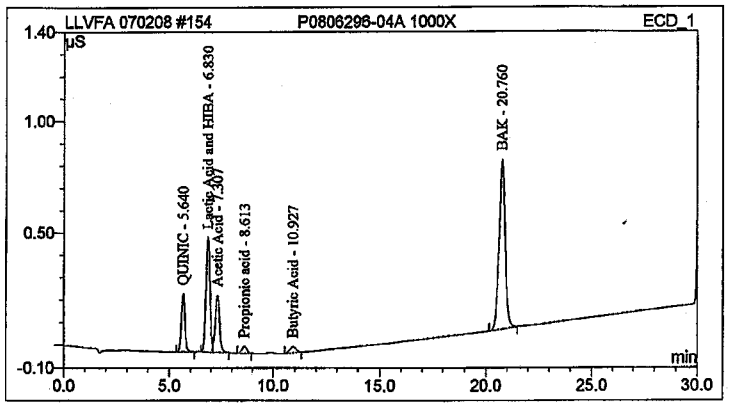
BOE-C6-0188959

MICROSEEPS

Sample Analysis Report

Sample Name:	P0806296-04A 1000X	**Sequence No:**	154
Sequence Name:	LLVFA 070208	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	7/9/2008 11:30 AM	**Analytical Method:**	AM23G
System Operator:	chemware	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	5.640	0.051	0.258	BMB	n.a.
2	Lactic Acid and HIBA	6.830	0.112	0.511	BM	1.1610
3	Acetic Acid	7.307	0.060	0.252	MB	0.4533
4	Propionic acid	8.613	0.008	0.030	BMB	0.1059
5	Butyric Acid	10.927	0.009	0.026	BMB	0.1487
6	BAK	20.760	0.264	0.758	BMB	n.a.

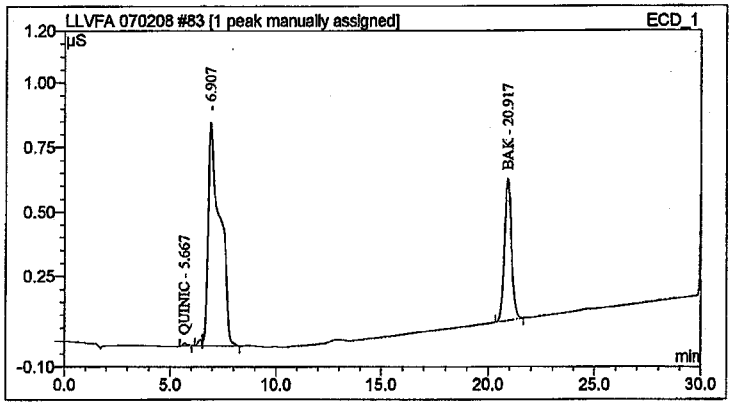


MICROSEEPS

Sample Analysis Report

Sample Name:	P0806296-05A	**Sequence No:**	83
Sequence Name:	LLVFA 070208	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	7/4/2008 9:43 PM	**Analytical Method:**	AM23G
System Operator:	chemware	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	5.667	0.003	0.011	BMB	n.a.
4	BAK	20.917	0.211	0.550	BMB	n.a.



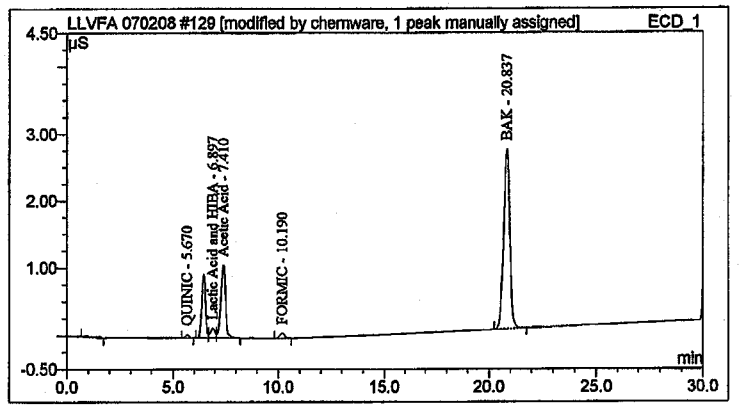
BOE-C6-0188960

MICROSEEPS

Sample Analysis Report

Sample Name:	P0806296-05A RERUN	**Sequence No:**	129
Sequence Name:	LLVFA 070208	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	7/8/2008 6:23 PM	**Analytical Method:**	AM23G
System Operator:	chemware	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
2	QUINIC	5.670	0.009	0.046	BMB	n.a.
4	Lactic Acid and HIBA	6.897	0.035	0.138	M *	0.4257
5	Acetic Acid	7.410	0.281	1.071	MB*^	2.0570
6	FORMIC	10.190	0.019	0.073	BMB	n.a.
7	BAK	20.837	0.907	2.677	BMB	n.a.

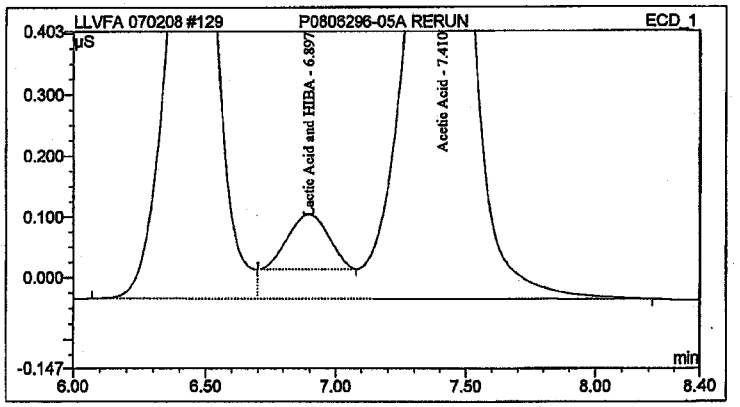


MICROSEEPS

Sample Analysis Report

Sample Name:	P0806296-05A RERUN	**Sequence No:**	129
Sequence Name:	LLVFA 070208	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	7/8/2008 6:23 PM	**Analytical Method:**	AM23G
System Operator:	chemware	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
2	QUINIC	5.670	0.009	0.046	BMB	n.a.
4	Lactic Acid and HIBA	6.897	0.016	0.090	Ru	0.2437
5	Acetic Acid	7.410	0.300	1.071	MB	2.1914
6	FORMIC	10.190	0.019	0.073	BMB	n.a.
7	BAK	20.837	0.907	2.677	BMB	n.a.



BOE-C6-0188961

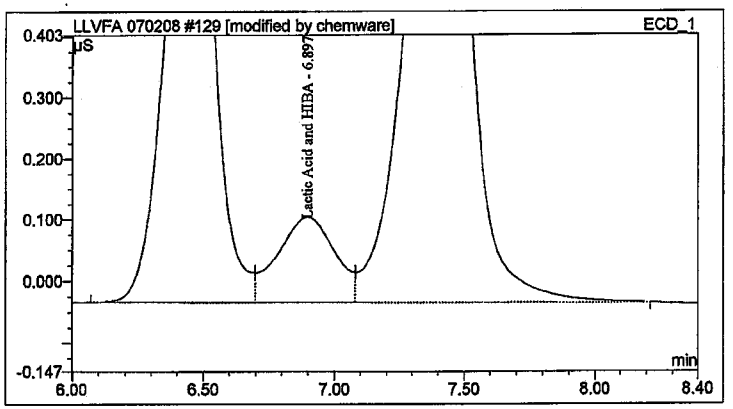
P0806296

MICROSEEPS

Sample Analysis Report

Sample Name:	P0806296-05A RERUN	**Sequence No:**	129
Sequence Name:	LLVFA 070208	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	7/8/2008 6:23 PM	**Analytical Method:**	AM23G
System Operator:	chemware	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
2	QUINIC	5.670	0.009	0.046	BMB	n.a.
4	Lactic Acid and HIBA	6.897	0.035	0.138	M *	0.4257
6	FORMIC	10.190	0.019	0.073	BMB	n.a.
7	BAK	20.837	0.907	2.677	BMB	n.a.



6.60 Build 1428

Page 1 of 1

current date: 7/9/2008
current time: 10:32 AM

88

North Wind

Boeing Site IRF1437 Quantitative PCR Analytical Summary

30 June, 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 Boeing Site IRF1437, 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 Boeing Site IRF1437 samples and volume filtered for DNA extraction.

Sample ID	Matrix–Date Sampled	Condition Received/ Observations	Volume Filtered (L)
IRF1437-01	Groundwater–06/17/2008	4°C, bottles intact	1.00
IRF1437-02	Groundwater–06/17/2008	4°C, bottles intact	0.10
IRF1437-03	Groundwater–06/17/2008	4°C, bottles intact	1.00
IRF1437-04	Groundwater–06/17/2008	4°C, bottles intact	0.10
IRF1437-05	Groundwater–06/17/2008	4°C, bottles intact	1.00

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-C6-0188962

Methods:

DNA Extraction: For groundwater shipped to the laboratory, between 100mL and 1.0L 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 BHQ quencher (Biosearch Technologies). For the *bvcA* gene probe, a Cy5 label is used on the 5-foot end and for the *vcrA* gene probe, 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.

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 IRF1437 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 Boeing Site IRF1437 samples.

Sample ID	DNA (ng/L groundwater)	Universal PCR/Nested QPCR#	*Dehalococcoides* 16S rRNA (copy/L groundwater)*	*Dehalococcoides* tceA (copy/L groundwater)*	*Dehalococcoides* bvcA (copy/L groundwater)*	*Dehalococcoides* vcrA (copy/L groundwater)*
IRF1437-01	169	+/-	ND	ND	ND	ND
IRF1437-02	118490	+/NA	9.71E+06 ± 1.42E+06	2.25E+06 ± 2.64E+05	1.37E+06 ± 3.03E+04	ND
IRF1437-03	45	+/-	ND	ND	6.46E+01 ± 4.14E+01	ND
IRF1437-04	90370	+/NA	1.35E+07 ± 1.93E+06	1.32E+06 ± 2.43E+05	1.60E+06 ± 1.05E+05	ND
IRF1437-05	2839	+/NA	3.01E+08 ± 4.53E+07	6.46E+07 ± 3.42E+06	4.98E+07 ± 6.08E+04	ND

*: indicates that the value presented is below the reporting limit (50 gene copies/ µL of DNA extraction).
#: 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. 'N/A' (not applicable) means the analysis wasn't performed.

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 was detected in IRF1437-02, IRF1437-04 and IRF1437-05 above the reporting limit of 50 gene copies/µL of DNA extraction but not found in IRF1437-01 and IRF1437-03 above the minimum detection limit of 2 gene copies/µL of DNA extraction. Reductase genes *tceA* and *bvcA* were detected above the reporting limit in the same three samples IRF1437-02, IRF1437-04 and IRF1437-05 but not detected in IRF1437-01 and IRF1437-03. Reductase gene *vcrA* was not observed above the minimum detection limit in any of the samples.

BOE-C6-0188963

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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: 06/18/08
Received: 06/18/08
Revised: 07/16/08 17:11

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. 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 5°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.

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

ADDITIONAL INFORMATION: Please note per EPA Method Update Rule the TDS analysis is referenced by SM2540C.

This report has been revised to correct the DHC data that was referenced incorrectly. The DHC results should have been reported for samples IRF1567-01, 02, 04, -05 and -06 and not IRF1567-01, 02, 03, 04, and 05.

LABORATORY ID	CLIENT ID	MATRIX
IRF1567-01	EWB002_WG20080618_01	Water
IRF1567-02	AW0055UB_WG20080618_01	Water
IRF1567-03	AW0055UB_WG20080618_02	Water
IRF1567-04	AW0075UB_WG20080618_01	Water
IRF1567-05	AW0077UB_WG20080618_01	Water

TestAmerica Irvine

Trupti Mistry
Project Manager

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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: IRF1567

Sampled: 06/18/08
Received: 06/18/08

LABORATORY ID	CLIENT ID	MATRIX
IRF1567-06	AW0076UB_WG20080618_01	Water
IRF1567-07	TB_AVO20080618_01	Water

Reviewed By:

TestAmerica Irvine

Trupti Mistry
Project Manager

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BOE-C6-0188964

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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: IRF1567

Sampled: 06/18/08
Received: 06/18/08

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: IRF1567-01 (EWB002_WG20080618_01 - Water)									
Reporting Units: ug/l									
Acetone	EPA 8260B	8F22005	18	40	**520**	4	06/22/08	06/22/08	
Benzene	EPA 8260B	8F22005	1.1	2.0	**21**	4	06/22/08	06/22/08	
Bromobenzene	EPA 8260B	8F22005	1.1	4.0	ND	4	06/22/08	06/22/08	
Bromochloromethane	EPA 8260B	8F22005	1.6	4.0	ND	4	06/22/08	06/22/08	
Bromodichloromethane	EPA 8260B	8F22005	1.2	4.0	ND	4	06/22/08	06/22/08	
Bromoform	EPA 8260B	8F22005	1.6	4.0	ND	4	06/22/08	06/22/08	
Bromomethane	EPA 8260B	8F22005	1.7	4.0	ND	4	06/22/08	06/22/08	
2-Butanone (MEK)	EPA 8260B	8F22005	19	20	**1100**	4	06/22/08	06/22/08	
n-Butylbenzene	EPA 8260B	8F22005	1.5	4.0	ND	4	06/22/08	06/22/08	
tert-Butylbenzene	EPA 8260B	8F22005	0.88	4.0	ND	4	06/22/08	06/22/08	
sec-Butylbenzene	EPA 8260B	8F22005	1.0	4.0	ND	4	06/22/08	06/22/08	
Carbon Disulfide	EPA 8260B	8F22005	1.9	4.0	ND	4	06/22/08	06/22/08	
Carbon tetrachloride	EPA 8260B	8F22005	1.1	2.0	ND	4	06/22/08	06/22/08	
Chlorobenzene	EPA 8260B	8F22005	1.4	4.0	ND	4	06/22/08	06/22/08	
Chloroethane	EPA 8260B	8F22005	1.6	8.0	**81**	4	06/22/08	06/22/08	
Chloroform	EPA 8260B	8F22005	1.3	4.0	ND	4	06/22/08	06/22/08	
Chloromethane	EPA 8260B	8F22005	1.6	8.0	ND	4	06/22/08	06/22/08	
4-Chlorotoluene	EPA 8260B	8F22005	1.2	4.0	ND	4	06/22/08	06/22/08	
2-Chlorotoluene	EPA 8260B	8F22005	1.1	4.0	ND	4	06/22/08	06/22/08	
1,2-Dibromo-3-chloropropane	EPA 8260B	8F22005	3.9	8.0	ND	4	06/22/08	06/22/08	
Dibromochloromethane	EPA 8260B	8F22005	1.6	4.0	ND	4	06/22/08	06/22/08	
1,2-Dibromoethane (EDB)	EPA 8260B	8F22005	1.6	4.0	ND	4	06/22/08	06/22/08	
1,2-Dichlorobenzene	EPA 8260B	8F22005	1.3	4.0	ND	4	06/22/08	06/22/08	
1,3-Dichlorobenzene	EPA 8260B	8F22005	1.4	4.0	ND	4	06/22/08	06/22/08	
1,4-Dichlorobenzene	EPA 8260B	8F22005	1.5	4.0	ND	4	06/22/08	06/22/08	
Dichlorodifluoromethane	EPA 8260B	8F22005	1.0	4.0	ND	4	06/22/08	06/22/08	
1,1-Dichloroethane	EPA 8260B	8F22005	1.6	4.0	**30**	4	06/22/08	06/22/08	
cis-1,2-Dichloroethene	EPA 8260B	8F22005	1.3	4.0	**14**	4	06/22/08	06/22/08	
trans-1,2-Dichloroethene	EPA 8260B	8F22005	1.2	4.0	**65**	4	06/22/08	06/22/08	
1,1-Dichloroethene	EPA 8260B	8F22005	1.7	4.0	**44**	4	06/22/08	06/22/08	
2,2-Dichloropropane	EPA 8260B	8F22005	1.4	4.0	ND	4	06/22/08	06/22/08	
1,2-Dichloropropane	EPA 8260B	8F22005	1.4	4.0	ND	4	06/22/08	06/22/08	
cis-1,3-Dichloropropene	EPA 8260B	8F22005	0.88	2.0	ND	4	06/22/08	06/22/08	C, L
trans-1,3-Dichloropropene	EPA 8260B	8F22005	1.3	2.0	ND	4	06/22/08	06/22/08	
1,1-Dichloropropene	EPA 8260B	8F22005	1.1	4.0	ND	4	06/22/08	06/22/08	
Ethylbenzene	EPA 8260B	8F22005	1.0	4.0	**4.0**	4	06/22/08	06/22/08	
1,2-Dichloroethane	EPA 8260B	8F22005	1.1	2.0	**31**	4	06/22/08	06/22/08	
Hexachlorobutadiene	EPA 8260B	8F22005	1.5	4.0	ND	4	06/22/08	06/22/08	
2-Hexanone	EPA 8260B	8F22005	10	24	ND	4	06/22/08	06/22/08	
Iodomethane	EPA 8260B	8F22005	4.0	8.0	ND	4	06/22/08	06/22/08	
Isopropylbenzene	EPA 8260B	8F22005	1.0	4.0	ND	4	06/22/08	06/22/08	

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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: IRF1567

Sampled: 06/18/08
Received: 06/18/08

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: IRF1567-01 (EWB002_WG20080618_01 - Water) - cont.									
Reporting Units: ug/l									
p-Isopropyltoluene	EPA 8260B	8F22005	1.1	4.0	ND	4	06/22/08	06/22/08	
Methylene chloride	EPA 8260B	8F22005	3.8	4.0	ND	4	06/22/08	06/22/08	
n-Propylbenzene	EPA 8260B	8F22005	1.1	4.0	ND	4	06/22/08	06/22/08	
Styrene	EPA 8260B	8F22005	0.80	4.0	ND	4	06/22/08	06/22/08	
1,1,1,2-Tetrachloroethane	EPA 8260B	8F22005	1.1	4.0	ND	4	06/22/08	06/22/08	
1,1,2,2-Tetrachloroethane	EPA 8260B	8F22005	1.2	4.0	ND	4	06/22/08	06/22/08	
Tetrachloroethene	EPA 8260B	8F22005	1.3	4.0	ND	4	06/22/08	06/22/08	
Tetrahydrofuran (THF)	EPA 8260B	8F22005	14	40	**16**	4	06/22/08	06/22/08	Ja
1,2,3-Trichlorobenzene	EPA 8260B	8F22005	1.2	4.0	ND	4	06/22/08	06/22/08	
1,2,4-Trichlorobenzene	EPA 8260B	8F22005	1.9	4.0	ND	4	06/22/08	06/22/08	
1,1,1-Trichloroethane	EPA 8260B	8F22005	1.2	4.0	ND	4	06/22/08	06/22/08	
1,1,2-Trichloroethane	EPA 8260B	8F22005	1.2	4.0	ND	4	06/22/08	06/22/08	
Trichloroethene	EPA 8260B	8F22005	1.0	4.0	ND	4	06/22/08	06/22/08	
Trichlorofluoromethane	EPA 8260B	8F22005	1.4	8.0	ND	4	06/22/08	06/22/08	
1,2,3-Trichloropropane	EPA 8260B	8F22005	1.6	4.0	ND	4	06/22/08	06/22/08	
1,2,4-Trimethylbenzene	EPA 8260B	8F22005	0.92	4.0	ND	4	06/22/08	06/22/08	
1,3,5-Trimethylbenzene	EPA 8260B	8F22005	1.0	4.0	ND	4	06/22/08	06/22/08	
Vinyl acetate	EPA 8260B	8F22005	4.0	24	ND	4	06/22/08	06/22/08	
m,p-Xylenes	EPA 8260B	8F22005	2.4	4.0	**20**	4	06/22/08	06/22/08	
o-Xylene	EPA 8260B	8F22005	1.2	2.0	**7.5**	4	06/22/08	06/22/08	
Xylenes, Total	EPA 8260B	8F22005	3.6	4.0	**28**	4	06/22/08	06/22/08	
Di-isopropyl Ether (DIPE)	EPA 8260B	8F22005	1.0	8.0	**11**	4	06/22/08	06/22/08	
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	8F22005	1.1	8.0	ND	4	06/22/08	06/22/08	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	8F22005	1.3	4.0	ND	4	06/22/08	06/22/08	
tert-Amyl Methyl Ether (TAME)	EPA 8260B	8F22005	1.3	8.0	ND	4	06/22/08	06/22/08	
tert-Butanol (TBA)	EPA 8260B	8F22005	26	100	ND	4	06/22/08	06/22/08	
Surrogate: 4-Bromofluorobenzene (80-120%)					*91 %*				
Surrogate: Dibromofluoromethane (80-120%)					*90 %*				
Surrogate: Toluene-d8 (80-120%)					*91 %*				

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Project Manager

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BOE-C6-0188965

Avocet Environmental Inc.
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Attention: Michael Rendina

Project ID: Boeing C-6 Torrance (02/26/08)
1155.006
Report Number: IRF1567

Sampled: 06/18/08
Received: 06/18/08

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: IRF1567-01RE1 (EWB002_WG20080618_01 - Water) - cont.									
Reporting Units: ug/l									
4-Methyl-2-pentanone (MIBK)	EPA 8260B	8F23038	140	200	**1100**	40	06/23/08	06/23/08	
Toluene	EPA 8260B	8F23038	14	40	**1700**	40	06/23/08	06/23/08	
Vinyl chloride	EPA 8260B	8F23038	16	20	**2500**	40	06/23/08	06/23/08	
Surrogate: 4-Bromofluorobenzene (80-120%)					*93 %*				
Surrogate: Dibromofluoromethane (80-120%)					*111 %*				
Surrogate: Toluene-d8 (80-120%)					*99 %*				

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Attention: Michael Rendina

Project ID: Boeing C-6 Torrance (02/26/08)
1155.006
Report Number: IRF1567

Sampled: 06/18/08
Received: 06/18/08

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: IRF1567-02 (AW0055UB_WG20080618_01 - Water)									
Reporting Units: ug/l									
Acetone	EPA 8260B	8F22005	45	100	ND	10	06/22/08	06/22/08	
Benzene	EPA 8260B	8F22005	2.8	5.0	**59**	10	06/22/08	06/22/08	
Bromobenzene	EPA 8260B	8F22005	2.7	10	ND	10	06/22/08	06/22/08	
Bromochloromethane	EPA 8260B	8F22005	4.0	10	ND	10	06/22/08	06/22/08	
Bromodichloromethane	EPA 8260B	8F22005	3.0	10	ND	10	06/22/08	06/22/08	
Bromoform	EPA 8260B	8F22005	4.0	10	ND	10	06/22/08	06/22/08	
Bromomethane	EPA 8260B	8F22005	4.2	10	ND	10	06/22/08	06/22/08	
2-Butanone (MEK)	EPA 8260B	8F22005	47	50	ND	10	06/22/08	06/22/08	
n-Butylbenzene	EPA 8260B	8F22005	3.7	10	ND	10	06/22/08	06/22/08	
tert-Butylbenzene	EPA 8260B	8F22005	2.2	10	ND	10	06/22/08	06/22/08	
sec-Butylbenzene	EPA 8260B	8F22005	2.5	10	ND	10	06/22/08	06/22/08	
Carbon Disulfide	EPA 8260B	8F22005	4.8	10	ND	10	06/22/08	06/22/08	
Carbon tetrachloride	EPA 8260B	8F22005	2.8	5.0	ND	10	06/22/08	06/22/08	
Chlorobenzene	EPA 8260B	8F22005	3.6	10	ND	10	06/22/08	06/22/08	
Chloroethane	EPA 8260B	8F22005	4.0	20	ND	10	06/22/08	06/22/08	
Chloroform	EPA 8260B	8F22005	3.3	10	**66**	10	06/22/08	06/22/08	
Chloromethane	EPA 8260B	8F22005	4.0	20	ND	10	06/22/08	06/22/08	
4-Chlorotoluene	EPA 8260B	8F22005	2.9	10	ND	10	06/22/08	06/22/08	
2-Chlorotoluene	EPA 8260B	8F22005	2.8	10	ND	10	06/22/08	06/22/08	
1,2-Dibromo-3-chloropropane	EPA 8260B	8F22005	9.7	20	ND	10	06/22/08	06/22/08	
Dibromochloromethane	EPA 8260B	8F22005	4.0	10	ND	10	06/22/08	06/22/08	
1,2-Dibromoethane (EDB)	EPA 8260B	8F22005	4.0	10	ND	10	06/22/08	06/22/08	
1,2-Dichlorobenzene	EPA 8260B	8F22005	3.2	10	ND	10	06/22/08	06/22/08	
1,3-Dichlorobenzene	EPA 8260B	8F22005	3.5	10	ND	10	06/22/08	06/22/08	
1,4-Dichlorobenzene	EPA 8260B	8F22005	3.7	10	ND	10	06/22/08	06/22/08	
Dichlorodifluoromethane	EPA 8260B	8F22005	2.6	10	ND	10	06/22/08	06/22/08	
1,1-Dichloroethane	EPA 8260B	8F22005	4.0	10	**520**	10	06/22/08	06/22/08	
trans-1,2-Dichloroethene	EPA 8260B	8F22005	3.0	10	**390**	10	06/22/08	06/22/08	
2,2-Dichloropropane	EPA 8260B	8F22005	3.4	10	ND	10	06/22/08	06/22/08	
1,2-Dichloropropane	EPA 8260B	8F22005	3.5	10	ND	10	06/22/08	06/22/08	
cis-1,3-Dichloropropene	EPA 8260B	8F22005	2.2	5.0	ND	10	06/22/08	06/22/08	C, L
trans-1,3-Dichloropropene	EPA 8260B	8F22005	3.2	5.0	ND	10	06/22/08	06/22/08	
1,1-Dichloropropene	EPA 8260B	8F22005	2.8	10	ND	10	06/22/08	06/22/08	
Ethylbenzene	EPA 8260B	8F22005	2.5	10	**3.1**	10	06/22/08	06/22/08	Ja
1,2-Dichloroethane	EPA 8260B	8F22005	2.8	5.0	**94**	10	06/22/08	06/22/08	
Hexachlorobutadiene	EPA 8260B	8F22005	3.8	10	ND	10	06/22/08	06/22/08	
2-Hexanone	EPA 8260B	8F22005	26	60	ND	10	06/22/08	06/22/08	
Iodomethane	EPA 8260B	8F22005	10	20	ND	10	06/22/08	06/22/08	
Isopropylbenzene	EPA 8260B	8F22005	2.5	10	ND	10	06/22/08	06/22/08	
p-Isopropyltoluene	EPA 8260B	8F22005	2.8	10	ND	10	06/22/08	06/22/08	
4-Methyl-2-pentanone (MIBK)	EPA 8260B	8F22005	35	50	ND	10	06/22/08	06/22/08	

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Project Manager

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BOE-C6-0188966

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: IRF1567

Sampled: 06/18/08
Received: 06/18/08

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: IRF1567-02 (AW0055UB_WG20080618_01 - Water) - cont.									
Reporting Units: ug/l									
Methylene chloride	EPA 8260B	8F22005	9.5	10	ND	10	06/22/08	06/22/08	
n-Propylbenzene	EPA 8260B	8F22005	2.7	10	ND	10	06/22/08	06/22/08	
Styrene	EPA 8260B	8F22005	2.0	10	ND	10	06/22/08	06/22/08	
1,1,1,2-Tetrachloroethane	EPA 8260B	8F22005	2.7	10	ND	10	06/22/08	06/22/08	
1,1,2,2-Tetrachloroethane	EPA 8260B	8F22005	3.0	10	ND	10	06/22/08	06/22/08	
Tetrachloroethene	EPA 8260B	8F22005	3.2	10	ND	10	06/22/08	06/22/08	
Tetrahydrofuran (THF)	EPA 8260B	8F22005	35	100	**40**	10	06/22/08	06/22/08	Ja
Toluene	EPA 8260B	8F22005	3.6	10	**150**	10	06/22/08	06/22/08	
1,2,3-Trichlorobenzene	EPA 8260B	8F22005	3.0	10	ND	10	06/22/08	06/22/08	
1,2,4-Trichlorobenzene	EPA 8260B	8F22005	4.8	10	ND	10	06/22/08	06/22/08	
1,1,1-Trichloroethane	EPA 8260B	8F22005	3.0	10	**15**	10	06/22/08	06/22/08	
1,1,2-Trichloroethane	EPA 8260B	8F22005	3.0	10	**50**	10	06/22/08	06/22/08	
Trichlorofluoromethane	EPA 8260B	8F22005	3.4	20	ND	10	06/22/08	06/22/08	
1,2,3-Trichloropropane	EPA 8260B	8F22005	4.0	10	ND	10	06/22/08	06/22/08	
1,2,4-Trimethylbenzene	EPA 8260B	8F22005	2.3	10	ND	10	06/22/08	06/22/08	
1,3,5-Trimethylbenzene	EPA 8260B	8F22005	2.6	10	ND	10	06/22/08	06/22/08	
Vinyl acetate	EPA 8260B	8F22005	10	60	ND	10	06/22/08	06/22/08	
Vinyl chloride	EPA 8260B	8F22005	4.0	5.0	**250**	10	06/22/08	06/22/08	
m,p-Xylenes	EPA 8260B	8F22005	6.0	10	**17**	10	06/22/08	06/22/08	
o-Xylene	EPA 8260B	8F22005	3.0	5.0	**5.6**	10	06/22/08	06/22/08	
Xylenes, Total	EPA 8260B	8F22005	9.0	10	**22**	10	06/22/08	06/22/08	
Di-isopropyl Ether (DIPE)	EPA 8260B	8F22005	2.5	20	**12**	10	06/22/08	06/22/08	Ja
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	8F22005	2.8	20	ND	10	06/22/08	06/22/08	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	8F22005	3.2	10	ND	10	06/22/08	06/22/08	
tert-Amyl Methyl Ether (TAME)	EPA 8260B	8F22005	3.3	20	ND	10	06/22/08	06/22/08	
tert-Butanol (TBA)	EPA 8260B	8F22005	65	250	ND	10	06/22/08	06/22/08	
Surrogate: 4-Bromofluorobenzene (80-120%)					*88 %*				
Surrogate: Dibromofluoromethane (80-120%)					*89 %*				
Surrogate: Toluene-d8 (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 (02/26/08)
1155.006
Report Number: IRF1567

Sampled: 06/18/08
Received: 06/18/08

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: IRF1567-02RE1 (AW0055UB_WG20080618_01 - Water) - cont.									
Reporting Units: ug/l									
cis-1,2-Dichloroethene	EPA 8260B	8F23038	64	200	**7100**	200	06/23/08	06/23/08	
1,1-Dichloroethene	EPA 8260B	8F23038	84	200	**12000**	200	06/23/08	06/23/08	
Trichloroethene	EPA 8260B	8F23038	52	200	**11000**	200	06/23/08	06/23/08	
Surrogate: 4-Bromofluorobenzene (80-120%)					*92 %*				
Surrogate: Dibromofluoromethane (80-120%)					*114 %*				
Surrogate: Toluene-d8 (80-120%)					*97 %*				

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BOE-C6-0188967

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: IRF1567

Sampled: 06/18/08
Received: 06/18/08

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

Sample ID: IRF1567-03 (AW0055UB_WG20080618_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	8F22005	180	400	ND	40	06/22/08	06/22/08	
Benzene	EPA 8260B	8F22005	11	20	**58**	40	06/22/08	06/22/08	
Bromobenzene	EPA 8260B	8F22005	11	40	ND	40	06/22/08	06/22/08	
Bromochloromethane	EPA 8260B	8F22005	16	40	ND	40	06/22/08	06/22/08	
Bromodichloromethane	EPA 8260B	8F22005	12	40	ND	40	06/22/08	06/22/08	
Bromoform	EPA 8260B	8F22005	16	40	ND	40	06/22/08	06/22/08	
Bromomethane	EPA 8260B	8F22005	17	40	ND	40	06/22/08	06/22/08	
2-Butanone (MEK)	EPA 8260B	8F22005	190	200	ND	40	06/22/08	06/22/08	
n-Butylbenzene	EPA 8260B	8F22005	15	40	ND	40	06/22/08	06/22/08	
tert-Butylbenzene	EPA 8260B	8F22005	8.8	40	ND	40	06/22/08	06/22/08	
sec-Butylbenzene	EPA 8260B	8F22005	10	40	ND	40	06/22/08	06/22/08	
Carbon Disulfide	EPA 8260B	8F22005	19	40	ND	40	06/22/08	06/22/08	
Carbon tetrachloride	EPA 8260B	8F22005	11	20	ND	40	06/22/08	06/22/08	
Chlorobenzene	EPA 8260B	8F22005	14	40	ND	40	06/22/08	06/22/08	
Chloroethane	EPA 8260B	8F22005	16	80	ND	40	06/22/08	06/22/08	
Chloroform	EPA 8260B	8F22005	13	40	**64**	40	06/22/08	06/22/08	
Chloromethane	EPA 8260B	8F22005	16	80	ND	40	06/22/08	06/22/08	
4-Chlorotoluene	EPA 8260B	8F22005	12	40	ND	40	06/22/08	06/22/08	
2-Chlorotoluene	EPA 8260B	8F22005	11	40	ND	40	06/22/08	06/22/08	
1,2-Dibromo-3-chloropropane	EPA 8260B	8F22005	39	80	ND	40	06/22/08	06/22/08	
Dibromochloromethane	EPA 8260B	8F22005	16	40	ND	40	06/22/08	06/22/08	
1,2-Dibromoethane (EDB)	EPA 8260B	8F22005	16	40	ND	40	06/22/08	06/22/08	
1,2-Dichlorobenzene	EPA 8260B	8F22005	13	40	ND	40	06/22/08	06/22/08	
1,3-Dichlorobenzene	EPA 8260B	8F22005	14	40	ND	40	06/22/08	06/22/08	
1,4-Dichlorobenzene	EPA 8260B	8F22005	15	40	ND	40	06/22/08	06/22/08	
Dichlorodifluoromethane	EPA 8260B	8F22005	10	40	ND	40	06/22/08	06/22/08	
1,1-Dichloroethane	EPA 8260B	8F22005	16	40	**530**	40	06/22/08	06/22/08	
cis-1,2-Dichloroethene	EPA 8260B	8F22005	13	40	**6800**	40	06/22/08	06/22/08	
trans-1,2-Dichloroethene	EPA 8260B	8F22005	12	40	**380**	40	06/22/08	06/22/08	
2,2-Dichloropropane	EPA 8260B	8F22005	14	40	ND	40	06/22/08	06/22/08	
1,2-Dichloropropane	EPA 8260B	8F22005	14	40	ND	40	06/22/08	06/22/08	
cis-1,3-Dichloropropene	EPA 8260B	8F22005	8.8	20	ND	40	06/22/08	06/22/08	C, L
trans-1,3-Dichloropropene	EPA 8260B	8F22005	13	20	ND	40	06/22/08	06/22/08	
1,1-Dichloropropene	EPA 8260B	8F22005	11	40	ND	40	06/22/08	06/22/08	
Ethylbenzene	EPA 8260B	8F22005	10	40	ND	40	06/22/08	06/22/08	
1,2-Dichloroethane	EPA 8260B	8F22005	11	20	**92**	40	06/22/08	06/22/08	
Hexachlorobutadiene	EPA 8260B	8F22005	15	40	ND	40	06/22/08	06/22/08	
2-Hexanone	EPA 8260B	8F22005	100	240	ND	40	06/22/08	06/22/08	
Iodomethane	EPA 8260B	8F22005	40	80	ND	40	06/22/08	06/22/08	
Isopropylbenzene	EPA 8260B	8F22005	10	40	ND	40	06/22/08	06/22/08	
p-Isopropyltoluene	EPA 8260B	8F22005	11	40	ND	40	06/22/08	06/22/08	

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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: IRF1567

Sampled: 06/18/08
Received: 06/18/08

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

Sample ID: IRF1567-03 (AW0055UB_WG20080618_02 - Water) - cont.
Reporting Units: ug/l

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
4-Methyl-2-pentanone (MIBK)	EPA 8260B	8F22005	140	200	ND	40	06/22/08	06/22/08	
Methylene chloride	EPA 8260B	8F22005	38	40	ND	40	06/22/08	06/22/08	
n-Propylbenzene	EPA 8260B	8F22005	11	40	ND	40	06/22/08	06/22/08	
Styrene	EPA 8260B	8F22005	8.0	40	ND	40	06/22/08	06/22/08	
1,1,1,2-Tetrachloroethane	EPA 8260B	8F22005	11	40	ND	40	06/22/08	06/22/08	
1,1,2,2-Tetrachloroethane	EPA 8260B	8F22005	12	40	ND	40	06/22/08	06/22/08	
Tetrachloroethene	EPA 8260B	8F22005	13	40	ND	40	06/22/08	06/22/08	
Tetrahydrofuran (THF)	EPA 8260B	8F22005	140	400	ND	40	06/22/08	06/22/08	
Toluene	EPA 8260B	8F22005	14	40	**150**	40	06/22/08	06/22/08	
1,2,3-Trichlorobenzene	EPA 8260B	8F22005	12	40	ND	40	06/22/08	06/22/08	
1,2,4-Trichlorobenzene	EPA 8260B	8F22005	19	40	ND	40	06/22/08	06/22/08	
1,1,1-Trichloroethane	EPA 8260B	8F22005	12	40	**14**	40	06/22/08	06/22/08	Ja
1,1,2-Trichloroethane	EPA 8260B	8F22005	12	40	**46**	40	06/22/08	06/22/08	
Trichloroethene	EPA 8260B	8F22005	10	40	**11000**	40	06/22/08	06/22/08	
Trichlorofluoromethane	EPA 8260B	8F22005	14	80	ND	40	06/22/08	06/22/08	
1,2,3-Trichloropropane	EPA 8260B	8F22005	16	40	ND	40	06/22/08	06/22/08	
1,2,4-Trimethylbenzene	EPA 8260B	8F22005	9.2	40	ND	40	06/22/08	06/22/08	
1,3,5-Trimethylbenzene	EPA 8260B	8F22005	10	40	ND	40	06/22/08	06/22/08	
Vinyl acetate	EPA 8260B	8F22005	40	240	ND	40	06/22/08	06/22/08	
Vinyl chloride	EPA 8260B	8F22005	16	20	**250**	40	06/22/08	06/22/08	
m,p-Xylenes	EPA 8260B	8F22005	24	40	ND	40	06/22/08	06/22/08	
o-Xylene	EPA 8260B	8F22005	12	20	ND	40	06/22/08	06/22/08	
Xylenes, Total	EPA 8260B	8F22005	36	40	ND	40	06/22/08	06/22/08	
Di-isopropyl Ether (DIPE)	EPA 8260B	8F22005	10	80	**11**	40	06/22/08	06/22/08	Ja
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	8F22005	11	80	ND	40	06/22/08	06/22/08	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	8F22005	13	40	ND	40	06/22/08	06/22/08	
tert-Amyl Methyl Ether (TAME)	EPA 8260B	8F22005	13	80	ND	40	06/22/08	06/22/08	
tert-Butanol (TBA)	EPA 8260B	8F22005	260	1000	ND	40	06/22/08	06/22/08	
Surrogate: 4-Bromofluorobenzene (80-120%)					*89 %*				
Surrogate: Dibromofluoromethane (80-120%)					*89 %*				
Surrogate: Toluene-d8 (80-120%)					*91 %*				

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Project Manager

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BOE-C6-0188968

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: IRF1567

Sampled: 06/18/08
Received: 06/18/08

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: IRF1567-03RE1 (AW0055UB_WG20080618_02 - Water) - cont.									
Reporting Units: ug/l									
1,1-Dichloroethene	EPA 8260B	8F22005	170	400	**12000**	400	06/22/08	06/22/08	
Surrogate: 4-Bromofluorobenzene (80-120%)					*91 %*				
Surrogate: Dibromofluoromethane (80-120%)					*90 %*				
Surrogate: Toluene-d8 (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)
1155.006
Report Number: IRF1567

Sampled: 06/18/08
Received: 06/18/08

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: IRF1567-04 (AW0075UB_WG20080618_01 - Water)									
Reporting Units: ug/l									
Acetone	EPA 8260B	8F22005	450	1000	**12000**	100	06/22/08	06/22/08	
Benzene	EPA 8260B	8F22005	28	50	**42**	100	06/22/08	06/22/08	Ja
Bromobenzene	EPA 8260B	8F22005	27	100	ND	100	06/22/08	06/22/08	
Bromochloromethane	EPA 8260B	8F22005	40	100	ND	100	06/22/08	06/22/08	
Bromodichloromethane	EPA 8260B	8F22005	30	100	ND	100	06/22/08	06/22/08	
Bromoform	EPA 8260B	8F22005	40	100	ND	100	06/22/08	06/22/08	
Bromomethane	EPA 8260B	8F22005	42	100	ND	100	06/22/08	06/22/08	
n-Butylbenzene	EPA 8260B	8F22005	37	100	ND	100	06/22/08	06/22/08	
tert-Butylbenzene	EPA 8260B	8F22005	22	100	ND	100	06/22/08	06/22/08	
sec-Butylbenzene	EPA 8260B	8F22005	25	100	ND	100	06/22/08	06/22/08	
Carbon Disulfide	EPA 8260B	8F22005	48	100	ND	100	06/22/08	06/22/08	
Carbon tetrachloride	EPA 8260B	8F22005	28	50	ND	100	06/22/08	06/22/08	
Chlorobenzene	EPA 8260B	8F22005	36	100	ND	100	06/22/08	06/22/08	
Chloroethane	EPA 8260B	8F22005	40	200	ND	100	06/22/08	06/22/08	
Chloroform	EPA 8260B	8F22005	33	100	ND	100	06/22/08	06/22/08	
Chloromethane	EPA 8260B	8F22005	40	200	ND	100	06/22/08	06/22/08	
4-Chlorotoluene	EPA 8260B	8F22005	29	100	ND	100	06/22/08	06/22/08	
2-Chlorotoluene	EPA 8260B	8F22005	28	100	ND	100	06/22/08	06/22/08	
1,2-Dibromo-3-chloropropane	EPA 8260B	8F22005	97	200	ND	100	06/22/08	06/22/08	
Dibromochloromethane	EPA 8260B	8F22005	40	100	ND	100	06/22/08	06/22/08	
1,2-Dibromoethane (EDB)	EPA 8260B	8F22005	40	100	ND	100	06/22/08	06/22/08	
1,2-Dichlorobenzene	EPA 8260B	8F22005	32	100	ND	100	06/22/08	06/22/08	
1,3-Dichlorobenzene	EPA 8260B	8F22005	35	100	ND	100	06/22/08	06/22/08	
1,4-Dichlorobenzene	EPA 8260B	8F22005	37	100	ND	100	06/22/08	06/22/08	
Dichlorodifluoromethane	EPA 8260B	8F22005	26	100	ND	100	06/22/08	06/22/08	
1,1-Dichloroethane	EPA 8260B	8F22005	40	100	**460**	100	06/22/08	06/22/08	
cis-1,2-Dichloroethene	EPA 8260B	8F22005	32	100	**2600**	100	06/22/08	06/22/08	
trans-1,2-Dichloroethene	EPA 8260B	8F22005	30	100	**210**	100	06/22/08	06/22/08	
1,1-Dichloroethene	EPA 8260B	8F22005	42	100	**4800**	100	06/22/08	06/22/08	
2,2-Dichloropropane	EPA 8260B	8F22005	34	100	ND	100	06/22/08	06/22/08	
1,2-Dichloropropane	EPA 8260B	8F22005	35	100	ND	100	06/22/08	06/22/08	
cis-1,3-Dichloropropene	EPA 8260B	8F22005	22	50	ND	100	06/22/08	06/22/08	C, L
trans-1,3-Dichloropropene	EPA 8260B	8F22005	32	50	ND	100	06/22/08	06/22/08	
1,1-Dichloropropene	EPA 8260B	8F22005	28	100	ND	100	06/22/08	06/22/08	
Ethylbenzene	EPA 8260B	8F22005	25	100	ND	100	06/22/08	06/22/08	
1,2-Dichloroethane	EPA 8260B	8F22005	28	50	**120**	100	06/22/08	06/22/08	
Hexachlorobutadiene	EPA 8260B	8F22005	38	100	ND	100	06/22/08	06/22/08	
2-Hexanone	EPA 8260B	8F22005	260	600	ND	100	06/22/08	06/22/08	
Iodomethane	EPA 8260B	8F22005	100	200	ND	100	06/22/08	06/22/08	
Isopropylbenzene	EPA 8260B	8F22005	25	100	ND	100	06/22/08	06/22/08	
p-Isopropyltoluene	EPA 8260B	8F22005	28	100	ND	100	06/22/08	06/22/08	

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BOE-C6-0188969

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: IRF1567

Sampled: 06/18/08
Received: 06/18/08

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: IRF1567-04 (AW0075UB_WG20080618_01 - Water) - cont.									
Reporting Units: ug/l									
4-Methyl-2-pentanone (MIBK)	EPA 8260B	8F22005	350	500	**9800**	100	06/22/08	06/22/08	
Methylene chloride	EPA 8260B	8F22005	95	100	ND	100	06/22/08	06/22/08	
n-Propylbenzene	EPA 8260B	8F22005	27	100	ND	100	06/22/08	06/22/08	
Styrene	EPA 8260B	8F22005	20	100	ND	100	06/22/08	06/22/08	
1,1,1,2-Tetrachloroethane	EPA 8260B	8F22005	27	100	ND	100	06/22/08	06/22/08	
1,1,2,2-Tetrachloroethane	EPA 8260B	8F22005	30	100	ND	100	06/22/08	06/22/08	
Tetrachloroethene	EPA 8260B	8F22005	32	100	ND	100	06/22/08	06/22/08	
Tetrahydrofuran (THF)	EPA 8260B	8F22005	350	1000	ND	100	06/22/08	06/22/08	
Toluene	EPA 8260B	8F22005	36	100	**6400**	100	06/22/08	06/22/08	
1,2,3-Trichlorobenzene	EPA 8260B	8F22005	30	100	ND	100	06/22/08	06/22/08	
1,2,4-Trichlorobenzene	EPA 8260B	8F22005	48	100	ND	100	06/22/08	06/22/08	
1,1,1-Trichloroethane	EPA 8260B	8F22005	30	100	ND	100	06/22/08	06/22/08	
1,1,2-Trichloroethane	EPA 8260B	8F22005	30	100	**62**	100	06/22/08	06/22/08	Ja
Trichloroethene	EPA 8260B	8F22005	26	100	**280**	100	06/22/08	06/22/08	
Trichlorofluoromethane	EPA 8260B	8F22005	34	200	ND	100	06/22/08	06/22/08	
1,2,3-Trichloropropane	EPA 8260B	8F22005	40	100	ND	100	06/22/08	06/22/08	
1,2,4-Trimethylbenzene	EPA 8260B	8F22005	23	100	ND	100	06/22/08	06/22/08	
1,3,5-Trimethylbenzene	EPA 8260B	8F22005	26	100	ND	100	06/22/08	06/22/08	
Vinyl acetate	EPA 8260B	8F22005	100	600	ND	100	06/22/08	06/22/08	
Vinyl chloride	EPA 8260B	8F22005	40	50	**2800**	100	06/22/08	06/22/08	
m,p-Xylenes	EPA 8260B	8F22005	60	100	ND	100	06/22/08	06/22/08	
o-Xylene	EPA 8260B	8F22005	30	50	ND	100	06/22/08	06/22/08	
Xylenes, Total	EPA 8260B	8F22005	90	100	ND	100	06/22/08	06/22/08	
Di-isopropyl Ether (DIPE)	EPA 8260B	8F22005	25	200	**570**	100	06/22/08	06/22/08	
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	8F22005	28	200	ND	100	06/22/08	06/22/08	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	8F22005	32	100	ND	100	06/22/08	06/22/08	
tert-Amyl Methyl Ether (TAME)	EPA 8260B	8F22005	33	200	ND	100	06/22/08	06/22/08	
tert-Butanol (TBA)	EPA 8260B	8F22005	650	2500	ND	100	06/22/08	06/22/08	
Surrogate: 4-Bromofluorobenzene (80-120%)					*90 %*				
Surrogate: Dibromofluoromethane (80-120%)					*89 %*				
Surrogate: Toluene-d8 (80-120%)					*90 %*				

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: IRF1567

Sampled: 06/18/08
Received: 06/18/08

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: IRF1567-04RE1 (AW0075UB_WG20080618_01 - Water) - cont.									
Reporting Units: ug/l									
2-Butanone (MEK)	EPA 8260B	8F23038	4700	5000	**40000**	1000	06/23/08	06/23/08	
Surrogate: 4-Bromofluorobenzene (80-120%)					*92 %*				
Surrogate: Dibromofluoromethane (80-120%)					*115 %*				
Surrogate: Toluene-d8 (80-120%)					*98 %*				

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Project Manager

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BOE-C6-0188970

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)
1155.006
Report Number: IRF1567

Sampled: 06/18/08
Received: 06/18/08

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

Sample ID: IRF1567-05 (AW0077UB_WG20080618_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	8F22005	45	100	**940**	10	06/22/08	06/22/08	
Benzene	EPA 8260B	8F22005	2.8	5.0	**26**	10	06/22/08	06/22/08	
Bromobenzene	EPA 8260B	8F22005	2.7	10	ND	10	06/22/08	06/22/08	
Bromochloromethane	EPA 8260B	8F22005	4.0	10	ND	10	06/22/08	06/22/08	
Bromodichloromethane	EPA 8260B	8F22005	3.0	10	ND	10	06/22/08	06/22/08	
Bromoform	EPA 8260B	8F22005	4.0	10	ND	10	06/22/08	06/22/08	
Bromomethane	EPA 8260B	8F22005	4.2	10	ND	10	06/22/08	06/22/08	
2-Butanone (MEK)	EPA 8260B	8F22005	47	50	**2000**	10	06/22/08	06/22/08	
n-Butylbenzene	EPA 8260B	8F22005	3.7	10	ND	10	06/22/08	06/22/08	
tert-Butylbenzene	EPA 8260B	8F22005	2.2	10	ND	10	06/22/08	06/22/08	
sec-Butylbenzene	EPA 8260B	8F22005	2.5	10	ND	10	06/22/08	06/22/08	
Carbon Disulfide	EPA 8260B	8F22005	4.8	10	ND	10	06/22/08	06/22/08	
Carbon tetrachloride	EPA 8260B	8F22005	2.8	5.0	ND	10	06/22/08	06/22/08	
Chlorobenzene	EPA 8260B	8F22005	3.6	10	ND	10	06/22/08	06/22/08	
Chloroethane	EPA 8260B	8F22005	4.0	20	**130**	10	06/22/08	06/22/08	
Chloroform	EPA 8260B	8F22005	3.3	10	ND	10	06/22/08	06/22/08	
Chloromethane	EPA 8260B	8F22005	4.0	20	ND	10	06/22/08	06/22/08	
4-Chlorotoluene	EPA 8260B	8F22005	2.9	10	ND	10	06/22/08	06/22/08	
2-Chlorotoluene	EPA 8260B	8F22005	2.8	10	ND	10	06/22/08	06/22/08	
1,2-Dibromo-3-chloropropane	EPA 8260B	8F22005	9.7	20	ND	10	06/22/08	06/22/08	
Dibromochloromethane	EPA 8260B	8F22005	4.0	10	ND	10	06/22/08	06/22/08	
1,2-Dibromoethane (EDB)	EPA 8260B	8F22005	4.0	10	ND	10	06/22/08	06/22/08	
1,2-Dichlorobenzene	EPA 8260B	8F22005	3.2	10	ND	10	06/22/08	06/22/08	
1,3-Dichlorobenzene	EPA 8260B	8F22005	3.5	10	ND	10	06/22/08	06/22/08	
1,4-Dichlorobenzene	EPA 8260B	8F22005	3.7	10	ND	10	06/22/08	06/22/08	
Dichlorodifluoromethane	EPA 8260B	8F22005	2.6	10	ND	10	06/22/08	06/22/08	
1,1-Dichloroethane	EPA 8260B	8F22005	4.0	10	**41**	10	06/22/08	06/22/08	
cis-1,2-Dichloroethene	EPA 8260B	8F22005	3.2	10	**25**	10	06/22/08	06/22/08	
trans-1,2-Dichloroethene	EPA 8260B	8F22005	3.0	10	**84**	10	06/22/08	06/22/08	
1,1-Dichloroethene	EPA 8260B	8F22005	4.2	10	**18**	10	06/22/08	06/22/08	
2,2-Dichloropropane	EPA 8260B	8F22005	3.4	10	ND	10	06/22/08	06/22/08	
1,2-Dichloropropane	EPA 8260B	8F22005	3.5	10	ND	10	06/22/08	06/22/08	
cis-1,3-Dichloropropene	EPA 8260B	8F22005	2.2	5.0	ND	10	06/22/08	06/22/08	C, L
trans-1,3-Dichloropropene	EPA 8260B	8F22005	3.2	5.0	ND	10	06/22/08	06/22/08	
1,1-Dichloropropene	EPA 8260B	8F22005	2.8	10	ND	10	06/22/08	06/22/08	
Ethylbenzene	EPA 8260B	8F22005	2.5	10	**3.3**	10	06/22/08	06/22/08	Ja
1,2-Dichloroethane	EPA 8260B	8F22005	2.8	5.0	**54**	10	06/22/08	06/22/08	
Hexachlorobutadiene	EPA 8260B	8F22005	3.8	10	ND	10	06/22/08	06/22/08	
2-Hexanone	EPA 8260B	8F22005	26	60	ND	10	06/22/08	06/22/08	
Iodomethane	EPA 8260B	8F22005	10	20	ND	10	06/22/08	06/22/08	
Isopropylbenzene	EPA 8260B	8F22005	2.5	10	ND	10	06/22/08	06/22/08	

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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: IRF1567

Sampled: 06/18/08
Received: 06/18/08

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

Sample ID: IRF1567-05 (AW0077UB_WG20080618_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	8F22005	2.8	10	ND	10	06/22/08	06/22/08	
4-Methyl-2-pentanone (MIBK)	EPA 8260B	8F22005	35	50	**1700**	10	06/22/08	06/22/08	
Methylene chloride	EPA 8260B	8F22005	9.5	10	ND	10	06/22/08	06/22/08	
n-Propylbenzene	EPA 8260B	8F22005	2.7	10	ND	10	06/22/08	06/22/08	
Styrene	EPA 8260B	8F22005	2.0	10	ND	10	06/22/08	06/22/08	
1,1,1,2-Tetrachloroethane	EPA 8260B	8F22005	2.7	10	ND	10	06/22/08	06/22/08	
1,1,2,2-Tetrachloroethane	EPA 8260B	8F22005	3.0	10	ND	10	06/22/08	06/22/08	
Tetrachloroethene	EPA 8260B	8F22005	3.2	10	ND	10	06/22/08	06/22/08	
Tetrahydrofuran (THF)	EPA 8260B	8F22005	35	100	**100**	10	06/22/08	06/22/08	
1,2,3-Trichlorobenzene	EPA 8260B	8F22005	3.0	10	ND	10	06/22/08	06/22/08	
1,2,4-Trichlorobenzene	EPA 8260B	8F22005	4.8	10	ND	10	06/22/08	06/22/08	
1,1,1-Trichloroethane	EPA 8260B	8F22005	3.0	10	ND	10	06/22/08	06/22/08	
1,1,2-Trichloroethane	EPA 8260B	8F22005	3.0	10	ND	10	06/22/08	06/22/08	
Trichloroethene	EPA 8260B	8F22005	2.6	10	**4.8**	10	06/22/08	06/22/08	Ja
Trichlorofluoromethane	EPA 8260B	8F22005	3.4	20	ND	10	06/22/08	06/22/08	
1,2,3-Trichloropropane	EPA 8260B	8F22005	4.0	10	ND	10	06/22/08	06/22/08	
1,2,4-Trimethylbenzene	EPA 8260B	8F22005	2.3	10	ND	10	06/22/08	06/22/08	
1,3,5-Trimethylbenzene	EPA 8260B	8F22005	2.6	10	ND	10	06/22/08	06/22/08	
Vinyl acetate	EPA 8260B	8F22005	10	60	ND	10	06/22/08	06/22/08	
m,p-Xylenes	EPA 8260B	8F22005	6.0	10	**18**	10	06/22/08	06/22/08	
o-Xylene	EPA 8260B	8F22005	3.0	5.0	**8.4**	10	06/22/08	06/22/08	
Xylenes, Total	EPA 8260B	8F22005	9.0	10	**27**	10	06/22/08	06/22/08	
Di-isopropyl Ether (DIPE)	EPA 8260B	8F22005	2.5	20	**15**	10	06/22/08	06/22/08	Ja
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	8F22005	2.8	20	ND	10	06/22/08	06/22/08	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	8F22005	3.2	10	ND	10	06/22/08	06/22/08	
tert-Amyl Methyl Ether (TAME)	EPA 8260B	8F22005	3.3	20	ND	10	06/22/08	06/22/08	
tert-Butanol (TBA)	EPA 8260B	8F22005	65	250	ND	10	06/22/08	06/22/08	
Surrogate: 4-Bromofluorobenzene (80-120%)					*89 %*				
Surrogate: Dibromofluoromethane (80-120%)					*89 %*				
Surrogate: Toluene-d8 (80-120%)					*90 %*				

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Project Manager

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BOE-C6-0188971

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: IRF1567

Sampled: 06/18/08
Received: 06/18/08

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: IRF1567-05RE1 (AW0077UB_WG20080618_01 - Water) - cont.									
Reporting Units: ug/l									
Toluene	EPA 8260B	8F22005	36	100	**2300**	100	06/22/08	06/22/08	
Vinyl chloride	EPA 8260B	8F22005	40	50	**4600**	100	06/22/08	06/22/08	
Surrogate: 4-Bromofluorobenzene (80-120%)					*90 %*				
Surrogate: Dibromofluoromethane (80-120%)					*92 %*				
Surrogate: Toluene-d8 (80-120%)					*91 %*				

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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: IRF1567

Sampled: 06/18/08
Received: 06/18/08

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: IRF1567-06 (AW0076UB_WG20080618_01 - Water)									
Reporting Units: ug/l									
Acetone	EPA 8260B	8F22005	450	1000	**9000**	100	06/22/08	06/22/08	
Benzene	EPA 8260B	8F22005	28	50	**44**	100	06/22/08	06/22/08	Ja
Bromobenzene	EPA 8260B	8F22005	27	100	ND	100	06/22/08	06/22/08	
Bromochloromethane	EPA 8260B	8F22005	40	100	ND	100	06/22/08	06/22/08	
Bromodichloromethane	EPA 8260B	8F22005	30	100	ND	100	06/22/08	06/22/08	
Bromoform	EPA 8260B	8F22005	40	100	ND	100	06/22/08	06/22/08	
Bromomethane	EPA 8260B	8F22005	42	100	ND	100	06/22/08	06/22/08	
n-Butylbenzene	EPA 8260B	8F22005	37	100	ND	100	06/22/08	06/22/08	
tert-Butylbenzene	EPA 8260B	8F22005	22	100	ND	100	06/22/08	06/22/08	
sec-Butylbenzene	EPA 8260B	8F22005	25	100	ND	100	06/22/08	06/22/08	
Carbon Disulfide	EPA 8260B	8F22005	48	100	ND	100	06/22/08	06/22/08	
Carbon tetrachloride	EPA 8260B	8F22005	28	50	ND	100	06/22/08	06/22/08	
Chlorobenzene	EPA 8260B	8F22005	36	100	ND	100	06/22/08	06/22/08	
Chloroethane	EPA 8260B	8F22005	40	200	ND	100	06/22/08	06/22/08	
Chloroform	EPA 8260B	8F22005	33	100	ND	100	06/22/08	06/22/08	
Chloromethane	EPA 8260B	8F22005	40	200	ND	100	06/22/08	06/22/08	
4-Chlorotoluene	EPA 8260B	8F22005	29	100	ND	100	06/22/08	06/22/08	
2-Chlorotoluene	EPA 8260B	8F22005	28	100	ND	100	06/22/08	06/22/08	
1,2-Dibromo-3-chloropropane	EPA 8260B	8F22005	97	200	ND	100	06/22/08	06/22/08	
Dibromochloromethane	EPA 8260B	8F22005	40	100	ND	100	06/22/08	06/22/08	
1,2-Dibromoethane (EDB)	EPA 8260B	8F22005	40	100	ND	100	06/22/08	06/22/08	
1,2-Dichlorobenzene	EPA 8260B	8F22005	32	100	ND	100	06/22/08	06/22/08	
1,3-Dichlorobenzene	EPA 8260B	8F22005	35	100	ND	100	06/22/08	06/22/08	
1,4-Dichlorobenzene	EPA 8260B	8F22005	37	100	ND	100	06/22/08	06/22/08	
Dichlorodifluoromethane	EPA 8260B	8F22005	26	100	ND	100	06/22/08	06/22/08	
1,1-Dichloroethane	EPA 8260B	8F22005	40	100	**480**	100	06/22/08	06/22/08	
cis-1,2-Dichloroethene	EPA 8260B	8F22005	32	100	**2000**	100	06/22/08	06/22/08	
trans-1,2-Dichloroethene	EPA 8260B	8F22005	30	100	**220**	100	06/22/08	06/22/08	
1,1-Dichloroethene	EPA 8260B	8F22005	42	100	**1900**	100	06/22/08	06/22/08	
2,2-Dichloropropane	EPA 8260B	8F22005	34	100	ND	100	06/22/08	06/22/08	
1,2-Dichloropropane	EPA 8260B	8F22005	35	100	ND	100	06/22/08	06/22/08	
cis-1,3-Dichloropropene	EPA 8260B	8F22005	22	50	ND	100	06/22/08	06/22/08	C, L
trans-1,3-Dichloropropene	EPA 8260B	8F22005	32	50	ND	100	06/22/08	06/22/08	
1,1-Dichloropropene	EPA 8260B	8F22005	28	100	ND	100	06/22/08	06/22/08	
Ethylbenzene	EPA 8260B	8F22005	25	100	ND	100	06/22/08	06/22/08	
1,2-Dichloroethane	EPA 8260B	8F22005	28	50	**120**	100	06/22/08	06/22/08	
Hexachlorobutadiene	EPA 8260B	8F22005	38	100	ND	100	06/22/08	06/22/08	
2-Hexanone	EPA 8260B	8F22005	260	600	ND	100	06/22/08	06/22/08	
Iodomethane	EPA 8260B	8F22005	100	200	ND	100	06/22/08	06/22/08	
Isopropylbenzene	EPA 8260B	8F22005	25	100	ND	100	06/22/08	06/22/08	
p-Isopropyltoluene	EPA 8260B	8F22005	28	100	ND	100	06/22/08	06/22/08	

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BOE-C6-0188972

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: IRF1567

Sampled: 06/18/08
Received: 06/18/08

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: IRF1567-06 (AW0076UB_WG20080618_01 - Water) - cont.									
Reporting Units: ug/l									
4-Methyl-2-pentanone (MIBK)	EPA 8260B	8F22005	350	500	**8200**	100	06/22/08	06/22/08	
Methylene chloride	EPA 8260B	8F22005	95	100	ND	100	06/22/08	06/22/08	
n-Propylbenzene	EPA 8260B	8F22005	27	100	ND	100	06/22/08	06/22/08	
Styrene	EPA 8260B	8F22005	20	100	ND	100	06/22/08	06/22/08	
1,1,1,2-Tetrachloroethane	EPA 8260B	8F22005	27	100	ND	100	06/22/08	06/22/08	
1,1,2,2-Tetrachloroethane	EPA 8260B	8F22005	30	100	ND	100	06/22/08	06/22/08	
Tetrachloroethene	EPA 8260B	8F22005	32	100	ND	100	06/22/08	06/22/08	
Tetrahydrofuran (THF)	EPA 8260B	8F22005	350	1000	ND	100	06/22/08	06/22/08	
Toluene	EPA 8260B	8F22005	36	100	**6000**	100	06/22/08	06/22/08	
1,2,3-Trichlorobenzene	EPA 8260B	8F22005	30	100	ND	100	06/22/08	06/22/08	
1,2,4-Trichlorobenzene	EPA 8260B	8F22005	48	100	ND	100	06/22/08	06/22/08	
1,1,1-Trichloroethane	EPA 8260B	8F22005	30	100	ND	100	06/22/08	06/22/08	
1,1,2-Trichloroethane	EPA 8260B	8F22005	30	100	**60**	100	06/22/08	06/22/08	Ja
Trichloroethene	EPA 8260B	8F22005	26	100	ND	100	06/22/08	06/22/08	
Trichlorofluoromethane	EPA 8260B	8F22005	34	200	ND	100	06/22/08	06/22/08	
1,2,3-Trichloropropane	EPA 8260B	8F22005	40	100	ND	100	06/22/08	06/22/08	
1,2,4-Trimethylbenzene	EPA 8260B	8F22005	23	100	ND	100	06/22/08	06/22/08	
1,3,5-Trimethylbenzene	EPA 8260B	8F22005	26	100	ND	100	06/22/08	06/22/08	
Vinyl acetate	EPA 8260B	8F22005	100	600	ND	100	06/22/08	06/22/08	
Vinyl chloride	EPA 8260B	8F22005	40	50	**5600**	100	06/22/08	06/22/08	
m,p-Xylenes	EPA 8260B	8F22005	60	100	ND	100	06/22/08	06/22/08	
o-Xylene	EPA 8260B	8F22005	30	50	ND	100	06/22/08	06/22/08	
Xylenes, Total	EPA 8260B	8F22005	90	100	ND	100	06/22/08	06/22/08	
Di-isopropyl Ether (DIPE)	EPA 8260B	8F22005	25	200	ND	100	06/22/08	06/22/08	
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	8F22005	28	200	ND	100	06/22/08	06/22/08	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	8F22005	32	100	ND	100	06/22/08	06/22/08	
tert-Amyl Methyl Ether (TAME)	EPA 8260B	8F22005	33	200	ND	100	06/22/08	06/22/08	
tert-Butanol (TBA)	EPA 8260B	8F22005	650	2500	ND	100	06/22/08	06/22/08	
Surrogate: 4-Bromofluorobenzene (80-120%)					*88 %*				
Surrogate: Dibromofluoromethane (80-120%)					*92 %*				
Surrogate: Toluene-d8 (80-120%)					*91 %*				

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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 (02/26/08)
1155.006
Report Number: IRF1567

Sampled: 06/18/08
Received: 06/18/08

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: IRF1567-06RE1 (AW0076UB_WG20080618_01 - Water) - cont.									
Reporting Units: ug/l									
2-Butanone (MEK)	EPA 8260B	8F22005	4700	5000	**30000**	1000	06/22/08	06/22/08	
Surrogate: 4-Bromofluorobenzene (80-120%)					*89 %*				
Surrogate: Dibromofluoromethane (80-120%)					*90 %*				
Surrogate: Toluene-d8 (80-120%)					*90 %*				

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BOE-C6-0188973

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)
1155.006
Report Number: IRF1567

Sampled: 06/18/08
Received: 06/18/08

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: IRF1567-07 (TB_AVO20080618_01 - Water)									
Reporting Units: ug/l									
Acetone	EPA 8260B	8F22005	4.5	10	ND	1	06/22/08	06/22/08	
Benzene	EPA 8260B	8F22005	0.28	0.50	ND	1	06/22/08	06/22/08	
Bromobenzene	EPA 8260B	8F22005	0.27	1.0	ND	1	06/22/08	06/22/08	
Bromochloromethane	EPA 8260B	8F22005	0.40	1.0	ND	1	06/22/08	06/22/08	
Bromodichloromethane	EPA 8260B	8F22005	0.30	1.0	ND	1	06/22/08	06/22/08	
Bromoform	EPA 8260B	8F22005	0.40	1.0	ND	1	06/22/08	06/22/08	
Bromomethane	EPA 8260B	8F22005	0.42	1.0	ND	1	06/22/08	06/22/08	
2-Butanone (MEK)	EPA 8260B	8F22005	4.7	5.0	ND	1	06/22/08	06/22/08	
n-Butylbenzene	EPA 8260B	8F22005	0.37	1.0	ND	1	06/22/08	06/22/08	
tert-Butylbenzene	EPA 8260B	8F22005	0.22	1.0	ND	1	06/22/08	06/22/08	
sec-Butylbenzene	EPA 8260B	8F22005	0.25	1.0	ND	1	06/22/08	06/22/08	
Carbon Disulfide	EPA 8260B	8F22005	0.48	1.0	ND	1	06/22/08	06/22/08	
Carbon tetrachloride	EPA 8260B	8F22005	0.28	0.50	ND	1	06/22/08	06/22/08	
Chlorobenzene	EPA 8260B	8F22005	0.36	1.0	ND	1	06/22/08	06/22/08	
Chloroethane	EPA 8260B	8F22005	0.40	2.0	ND	1	06/22/08	06/22/08	
Chloroform	EPA 8260B	8F22005	0.33	1.0	ND	1	06/22/08	06/22/08	
Chloromethane	EPA 8260B	8F22005	0.40	2.0	ND	1	06/22/08	06/22/08	
4-Chlorotoluene	EPA 8260B	8F22005	0.29	1.0	ND	1	06/22/08	06/22/08	
2-Chlorotoluene	EPA 8260B	8F22005	0.28	1.0	ND	1	06/22/08	06/22/08	
1,2-Dibromo-3-chloropropane	EPA 8260B	8F22005	0.97	2.0	ND	1	06/22/08	06/22/08	
Dibromochloromethane	EPA 8260B	8F22005	0.40	1.0	ND	1	06/22/08	06/22/08	
1,2-Dibromoethane (EDB)	EPA 8260B	8F22005	0.40	1.0	ND	1	06/22/08	06/22/08	
1,2-Dichlorobenzene	EPA 8260B	8F22005	0.32	1.0	ND	1	06/22/08	06/22/08	
1,3-Dichlorobenzene	EPA 8260B	8F22005	0.35	1.0	ND	1	06/22/08	06/22/08	
1,4-Dichlorobenzene	EPA 8260B	8F22005	0.37	1.0	ND	1	06/22/08	06/22/08	
Dichlorodifluoromethane	EPA 8260B	8F22005	0.26	1.0	ND	1	06/22/08	06/22/08	
1,1-Dichloroethane	EPA 8260B	8F22005	0.40	1.0	ND	1	06/22/08	06/22/08	
cis-1,2-Dichloroethene	EPA 8260B	8F22005	0.32	1.0	ND	1	06/22/08	06/22/08	
trans-1,2-Dichloroethene	EPA 8260B	8F22005	0.30	1.0	ND	1	06/22/08	06/22/08	
1,1-Dichloroethene	EPA 8260B	8F22005	0.42	1.0	ND	1	06/22/08	06/22/08	
2,2-Dichloropropane	EPA 8260B	8F22005	0.34	1.0	ND	1	06/22/08	06/22/08	
1,2-Dichloropropane	EPA 8260B	8F22005	0.35	1.0	ND	1	06/22/08	06/22/08	
cis-1,3-Dichloropropene	EPA 8260B	8F22005	0.22	0.50	ND	1	06/22/08	06/22/08	C, L
trans-1,3-Dichloropropene	EPA 8260B	8F22005	0.32	0.50	ND	1	06/22/08	06/22/08	
1,1-Dichloropropene	EPA 8260B	8F22005	0.28	1.0	ND	1	06/22/08	06/22/08	
Ethylbenzene	EPA 8260B	8F22005	0.25	1.0	ND	1	06/22/08	06/22/08	
1,2-Dichloroethane	EPA 8260B	8F22005	0.28	0.50	ND	1	06/22/08	06/22/08	
Hexachlorobutadiene	EPA 8260B	8F22005	0.38	1.0	ND	1	06/22/08	06/22/08	
2-Hexanone	EPA 8260B	8F22005	2.6	6.0	ND	1	06/22/08	06/22/08	
Iodomethane	EPA 8260B	8F22005	1.0	2.0	ND	1	06/22/08	06/22/08	
Isopropylbenzene	EPA 8260B	8F22005	0.25	1.0	ND	1	06/22/08	06/22/08	

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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: IRF1567

Sampled: 06/18/08
Received: 06/18/08

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: IRF1567-07 (TB_AVO20080618_01 - Water) - cont.									
Reporting Units: ug/l									
p-Isopropyltoluene	EPA 8260B	8F22005	0.28	1.0	ND	1	06/22/08	06/22/08	
4-Methyl-2-pentanone (MIBK)	EPA 8260B	8F22005	3.5	5.0	ND	1	06/22/08	06/22/08	
Methylene chloride	EPA 8260B	8F22005	0.95	1.0	ND	1	06/22/08	06/22/08	
n-Propylbenzene	EPA 8260B	8F22005	0.27	1.0	ND	1	06/22/08	06/22/08	
Styrene	EPA 8260B	8F22005	0.20	1.0	ND	1	06/22/08	06/22/08	
1,1,1,2-Tetrachloroethane	EPA 8260B	8F22005	0.27	1.0	ND	1	06/22/08	06/22/08	
1,1,2,2-Tetrachloroethane	EPA 8260B	8F22005	0.30	1.0	ND	1	06/22/08	06/22/08	
Tetrachloroethene	EPA 8260B	8F22005	0.32	1.0	ND	1	06/22/08	06/22/08	
Tetrahydrofuran (THF)	EPA 8260B	8F22005	3.5	10	ND	1	06/22/08	06/22/08	
Toluene	EPA 8260B	8F22005	0.36	1.0	ND	1	06/22/08	06/22/08	
1,2,3-Trichlorobenzene	EPA 8260B	8F22005	0.30	1.0	ND	1	06/22/08	06/22/08	
1,2,4-Trichlorobenzene	EPA 8260B	8F22005	0.48	1.0	ND	1	06/22/08	06/22/08	
1,1,1-Trichloroethane	EPA 8260B	8F22005	0.30	1.0	ND	1	06/22/08	06/22/08	
1,1,2-Trichloroethane	EPA 8260B	8F22005	0.30	1.0	ND	1	06/22/08	06/22/08	
Trichloroethene	EPA 8260B	8F22005	0.26	1.0	ND	1	06/22/08	06/22/08	
Trichlorofluoromethane	EPA 8260B	8F22005	0.34	2.0	ND	1	06/22/08	06/22/08	
1,2,3-Trichloropropane	EPA 8260B	8F22005	0.40	1.0	ND	1	06/22/08	06/22/08	
1,2,4-Trimethylbenzene	EPA 8260B	8F22005	0.23	1.0	ND	1	06/22/08	06/22/08	
1,3,5-Trimethylbenzene	EPA 8260B	8F22005	0.26	1.0	ND	1	06/22/08	06/22/08	
Vinyl acetate	EPA 8260B	8F22005	1.0	6.0	ND	1	06/22/08	06/22/08	
Vinyl chloride	EPA 8260B	8F22005	0.40	0.50	ND	1	06/22/08	06/22/08	
m,p-Xylenes	EPA 8260B	8F22005	0.60	1.0	ND	1	06/22/08	06/22/08	
o-Xylene	EPA 8260B	8F22005	0.30	0.50	ND	1	06/22/08	06/22/08	
Xylenes, Total	EPA 8260B	8F22005	0.90	1.0	ND	1	06/22/08	06/22/08	
Di-isopropyl Ether (DIPE)	EPA 8260B	8F22005	0.25	2.0	ND	1	06/22/08	06/22/08	
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	8F22005	0.28	2.0	ND	1	06/22/08	06/22/08	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	8F22005	0.32	1.0	ND	1	06/22/08	06/22/08	
tert-Amyl Methyl Ether (TAME)	EPA 8260B	8F22005	0.33	2.0	ND	1	06/22/08	06/22/08	
tert-Butanol (TBA)	EPA 8260B	8F22005	6.5	25	ND	1	06/22/08	06/22/08	
Surrogate: 4-Bromofluorobenzene (80-120%)					*90 %*				
Surrogate: Dibromofluoromethane (80-120%)					*86 %*				
Surrogate: Toluene-d8 (80-120%)					*90 %*				

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Project Manager

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BOE-C6-0188974

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: IRF1567

Sampled: 06/18/08
Received: 06/18/08

INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRF1567-01 (EWB002_WG20080618_01 - Water)									
Reporting Units: mg/l									
Alkalinity as CaCO3	EPA 310.1	8F19056	2.0	2.0	**940**	1	06/19/08	06/19/08	
Chloride	EPA 300.0	8F18057	10	20	**520**	40	06/18/08	06/18/08	
Nitrate-NO3	EPA 300.0	8F18057	0.25	0.50	ND	1	06/18/08	06/18/08	
Nitrite-NO2	EPA 300.0	8F18057	12	20	ND	40	06/18/08	06/18/08	RL1
Sulfate	EPA 300.0	8F18057	0.20	0.50	**0.61**	1	06/18/08	06/18/08	
Sample ID: IRF1567-02 (AW0055UB_WG20080618_01 - Water)									
Reporting Units: mg/l									
Alkalinity as CaCO3	EPA 310.1	8F19056	2.0	2.0	**610**	1	06/19/08	06/19/08	
Chloride	EPA 300.0	8F18057	10	20	**660**	40	06/18/08	06/19/08	
Nitrate-NO3	EPA 300.0	8F18057	0.25	0.50	ND	1	06/18/08	06/18/08	
Nitrite-NO2	EPA 300.0	8F18057	0.30	0.50	ND	1	06/18/08	06/18/08	
Sulfate	EPA 300.0	8F18057	0.20	0.50	**28**	1	06/18/08	06/18/08	
Total Dissolved Solids	EPA 160.1	8F23007	10	10	**2300**	1	06/23/08	06/23/08	
Total Dissolved Solids	SM2540C	8F23007	10	10	**2300**	1	06/23/08	06/23/08	
Sample ID: IRF1567-04 (AW0075UB_WG20080618_01 - Water)									
Reporting Units: mg/l									
Alkalinity as CaCO3	EPA 310.1	8F19056	2.0	2.0	**900**	1	06/19/08	06/19/08	
Chloride	EPA 300.0	8F19050	10	20	**620**	40	06/19/08	06/19/08	
Nitrate-NO3	EPA 300.0	8F19050	0.25	0.50	ND	1	06/19/08	06/19/08	
Nitrite-NO2	EPA 300.0	8F19050	12	20	ND	40	06/19/08	06/19/08	RL1
Sulfate	EPA 300.0	8F19050	0.20	0.50	ND	1	06/19/08	06/19/08	
Sample ID: IRF1567-05 (AW0077UB_WG20080618_01 - Water)									
Reporting Units: mg/l									
Alkalinity as CaCO3	EPA 310.1	8F19056	2.0	2.0	**900**	1	06/19/08	06/19/08	
Chloride	EPA 300.0	8F19050	5.0	10	**530**	20	06/19/08	06/19/08	
Nitrate-NO3	EPA 300.0	8F19050	0.25	0.50	ND	1	06/19/08	06/19/08	
Nitrite-NO2	EPA 300.0	8F19050	6.0	10	ND	20	06/19/08	06/19/08	RL1
Sulfate	EPA 300.0	8F19050	0.20	0.50	ND	1	06/19/08	06/19/08	
Sample ID: IRF1567-06 (AW0076UB_WG20080618_01 - Water)									
Reporting Units: mg/l									
Alkalinity as CaCO3	EPA 310.1	8F19056	2.0	2.0	**1000**	1	06/19/08	06/19/08	
Chloride	EPA 300.0	8F19050	10	20	**670**	40	06/19/08	06/19/08	
Nitrate-NO3	EPA 300.0	8F19050	0.25	0.50	ND	1	06/19/08	06/19/08	
Nitrite-NO2	EPA 300.0	8F19050	12	20	ND	40	06/19/08	06/19/08	RL1
Sulfate	EPA 300.0	8F19050	0.20	0.50	ND	1	06/19/08	06/19/08	

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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: IRF1567

Sampled: 06/18/08
Received: 06/18/08

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: IRF1567-01 (EWB002_WG20080618_01 - Water)									
Reporting Units: mg/l									
Total Organic Carbon	EPA 9060A MOD.	8F19093	5.0	10	**160**	10	06/19/08	06/19/08	
Sample ID: IRF1567-02 (AW0055UB_WG20080618_01 - Water)									
Reporting Units: mg/l									
Total Organic Carbon	EPA 9060A MOD.	8F19093	0.50	1.0	**4.1**	1	06/19/08	06/19/08	
Sample ID: IRF1567-04 (AW0075UB_WG20080618_01 - Water)									
Reporting Units: mg/l									
Total Organic Carbon	EPA 9060A MOD.	8F19093	10	20	**430**	20	06/19/08	06/19/08	
Sample ID: IRF1567-05 (AW0077UB_WG20080618_01 - Water)									
Reporting Units: mg/l									
Total Organic Carbon	EPA 9060A MOD.	8F19093	10	20	**300**	20	06/19/08	06/19/08	
Sample ID: IRF1567-06 (AW0076UB_WG20080618_01 - Water)									
Reporting Units: mg/l									
Total Organic Carbon	EPA 9060A MOD.	8F19093	10	20	**450**	20	06/19/08	06/19/08	

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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: IRF1567

Sampled: 06/18/08
Received: 06/18/08

qPCR TaqMan assay

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRF1567-01 (EWB002_WG20080618_01 - Water)									
Reporting Units: gene copies/L ground									
16s rRNA DHC sp.	qPCR TaqMan assay	1	N/A	50	**7.71E+08**	8.662	06/19/08	06/23/08	
bvcA	qPCR TaqMan assay	1	N/A	50	**1.54E+07**	8.662	06/19/08	06/24/08	
tceA	qPCR TaqMan assay	1	N/A	50	**6.58E+08**	8.662	06/19/08	06/24/08	
vcrA	qPCR TaqMan assay	1	N/A	50	**1.51E+06**	8.662	06/19/08	06/24/08	
Sample ID: IRF1567-02 (AW0055UB_WG20080618_01 - Water)									
Reporting Units: gene copies/L ground									
16s rRNA DHC sp.	qPCR TaqMan assay	1	N/A	50	**2.31E+08**	2.832	06/19/08	06/23/08	
bvcA	qPCR TaqMan assay	1	N/A	50	**3.41E+06**	2.832	06/19/08	06/24/08	
tceA	qPCR TaqMan assay	1	N/A	50	**2.21E+08**	2.832	06/19/08	06/24/08	
vcrA	qPCR TaqMan assay	1	N/A	50	ND	2.832	06/19/08	06/24/08	
Sample ID: IRF1567-04 (AW0075UB_WG20080618_01 - Water)									
Reporting Units: gene copies/L ground									
16s rRNA DHC sp.	qPCR TaqMan assay	1	N/A	50	**1.47E+09**	3.718	06/19/08	06/23/08	
bvcA	qPCR TaqMan assay	1	N/A	50	**2.14E+08**	3.718	06/19/08	06/24/08	
tceA	qPCR TaqMan assay	1	N/A	50	**8.86E+08**	3.718	06/19/08	06/24/08	
vcrA	qPCR TaqMan assay	1	N/A	50	ND	3.718	06/19/08	06/24/08	
Sample ID: IRF1567-05 (AW0077UB_WG20080618_01 - Water)									
Reporting Units: gene copies/L ground									
16s rRNA DHC sp.	qPCR TaqMan assay	1	N/A	50	**1.96E+09**	16.244	06/19/08	06/23/08	
bvcA	qPCR TaqMan assay	1	N/A	50	**2.26E+08**	16.244	06/19/08	06/24/08	
tceA	qPCR TaqMan assay	1	N/A	50	**5.59E+08**	16.244	06/19/08	06/24/08	
vcrA	qPCR TaqMan assay	1	N/A	50	ND	16.244	06/19/08	06/24/08	
Sample ID: IRF1567-06 (AW0076UB_WG20080618_01 - Water)									
Reporting Units: gene copies/L ground									
16s rRNA DHC sp.	qPCR TaqMan assay	1	N/A	50	**6.65E+08**	6.022	06/19/08	06/23/08	
bvcA	qPCR TaqMan assay	1	N/A	50	**3.41E+07**	6.022	06/19/08	06/24/08	
tceA	qPCR TaqMan assay	1	N/A	50	**4.87E+08**	6.022	06/19/08	06/24/08	
vcrA	qPCR TaqMan assay	1	N/A	50	ND	6.022	06/19/08	06/24/08	

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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: IRF1567

Sampled: 06/18/08
Received: 06/18/08

Universal Bacterial PCR

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRF1567-01 (EWB002_WG20080618_01 - Water)									
Reporting Units: NONE									
16s rRNA	Jniversal Bacterial PCF	1	N/A	NA	**Positive**	8.662	06/19/08	06/23/08	
Sample ID: IRF1567-02 (AW0055UB_WG20080618_01 - Water)									
Reporting Units: NONE									
16s rRNA	Jniversal Bacterial PCF	1	N/A	NA	**Positive**	2.832	06/19/08	06/23/08	
Sample ID: IRF1567-04 (AW0075UB_WG20080618_01 - Water)									
Reporting Units: NONE									
16s rRNA	Jniversal Bacterial PCF	1	N/A	NA	**Positive**	3.718	06/19/08	06/23/08	
Sample ID: IRF1567-05 (AW0077UB_WG20080618_01 - Water)									
Reporting Units: NONE									
16s rRNA	Jniversal Bacterial PCF	1	N/A	NA	**Positive**	16.244	06/19/08	06/23/08	
Sample ID: IRF1567-06 (AW0076UB_WG20080618_01 - Water)									
Reporting Units: NONE									
16s rRNA	Jniversal Bacterial PCF	1	N/A	NA	**Positive**	6.022	06/19/08	06/23/08	

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BOE-C6-0188976

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: IRF1567

Sampled: 06/18/08
Received: 06/18/08

Volatile Fatty Acids by Ion Chromatography

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRF1567-01 (EWB002_WG20080618_01 - Water)									
Reporting Units: mg/L									
Acetic Acid	AM23G Acetic Acid	M080709036	4.1	7	**160**	100	07/07/08	07/08/08	
Butyric Acid	AM23G Butyric Acid	M080709033	0.59	0.7	**2.8**	10	07/07/08	07/07/08	
Hexanoic Acid	AM23G Hexanoic Acid	M080626010	0.08	0.1	**0.18**	1	06/26/08	07/04/08	M
i-Hexanoic Acid	AM23G i-Hexanoic Acid	M080626010	0.08	0.1	**0.66**	1	06/26/08	07/04/08	
i-Pentanoic Acid	AM23G i-Pentanoic Acid	M080626010	0.07	0.07	**9.5**	1	06/26/08	07/04/08	M
Lactic Acid and HIBA	23G Lactic Acid and H	M080709033	0.67	1	**1.6**	10	07/07/08	07/07/08	
Pentanoic Acid	AM23G Pentanoic Acid	M080626010	0.07	0.07	**1.9**	1	06/26/08	07/04/08	
Propionic Acid	AM23G Propionic Acid	M080709033	0.52	0.7	**65**	10	07/07/08	07/07/08	
Pyruvic Acid	AM23G Pyruvic Acid	M080626010	0.07	0.07	**4.2**	1	06/26/08	07/04/08	M
Sample ID: IRF1567-02 (AW0055UB_WG20080618_01 - Water)									
Reporting Units: mg/L									
Acetic Acid	AM23G Acetic Acid	M080626010	0.04	0.07	**1.1**	1	06/26/08	07/08/08	M
Butyric Acid	AM23G Butyric Acid	M080626010	0.06	0.07	ND	1	06/26/08	07/08/08	U, M
Hexanoic Acid	AM23G Hexanoic Acid	M080626010	0.08	0.1	ND	1	06/26/08	07/08/08	U, M
i-Hexanoic Acid	AM23G i-Hexanoic Acid	M080626010	0.08	0.1	ND	1	06/26/08	07/08/08	U
i-Pentanoic Acid	AM23G i-Pentanoic Acid	M080626010	0.07	0.07	ND	1	06/26/08	07/08/08	U, M
Lactic Acid and HIBA	23G Lactic Acid and H	M080626010	0.07	0.1	**0.14**	1	06/26/08	07/08/08	M
Pentanoic Acid	AM23G Pentanoic Acid	M080626010	0.07	0.07	ND	1	06/26/08	07/08/08	U
Propionic Acid	AM23G Propionic Acid	M080626010	0.05	0.07	ND	1	06/26/08	07/08/08	U, M
Pyruvic Acid	AM23G Pyruvic Acid	M080626010	0.07	0.07	ND	1	06/26/08	07/08/08	U, M
Sample ID: IRF1567-04 (AW0075UB_WG20080618_01 - Water)									
Reporting Units: mg/L									
Acetic Acid	AM23G Acetic Acid	M080709036	4.1	7	**870**	100	07/07/08	07/08/08	
Butyric Acid	AM23G Butyric Acid	M080709033	0.59	0.7	**11**	10	07/07/08	07/08/08	
Hexanoic Acid	AM23G Hexanoic Acid	M080626010	0.08	0.1	**1.1**	1	06/26/08	07/04/08	M
i-Hexanoic Acid	AM23G i-Hexanoic Acid	M080626010	0.08	0.1	**0.71**	1	06/26/08	07/04/08	
i-Pentanoic Acid	AM23G i-Pentanoic Acid	M080709033	0.7	0.7	**7.6**	10	07/07/08	07/08/08	
Lactic Acid and HIBA	23G Lactic Acid and H	M080709036	6.7	10	**28**	100	07/07/08	07/08/08	
Pentanoic Acid	AM23G Pentanoic Acid	M080626010	0.07	0.07	**5.7**	1	06/26/08	07/04/08	
Propionic Acid	AM23G Propionic Acid	M080709036	5.2	7	**220**	100	07/07/08	07/08/08	
Pyruvic Acid	AM23G Pyruvic Acid	M080709033	0.67	0.7	**5.7**	10	07/07/08	07/08/08	

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Irvine, CA 92618
Attention: Michael Rendina

Project ID: Boeing C-6 Torrance (02/26/08)
1155.006
Report Number: IRF1567

Sampled: 06/18/08
Received: 06/18/08

Volatile Fatty Acids by Ion Chromatography

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRF1567-05 (AW0077UB_WG20080618_01 - Water)									
Reporting Units: mg/L									
Acetic Acid	AM23G Acetic Acid	M080709036	4.1	7	**370**	100	07/07/08	07/08/08	
Butyric Acid	AM23G Butyric Acid	M080709033	0.59	0.7	**13**	10	07/07/08	07/08/08	
Hexanoic Acid	AM23G Hexanoic Acid	M080626010	0.08	0.1	**0.59**	1	06/26/08	07/04/08	M
i-Hexanoic Acid	AM23G i-Hexanoic Acid	M080626010	0.08	0.1	**0.61**	1	06/26/08	07/04/08	
i-Pentanoic Acid	AM23G i-Pentanoic Acid	M080709033	0.7	0.7	**7**	10	07/07/08	07/08/08	
Lactic Acid and HIBA	23G Lactic Acid and H	M080709036	6.7	10	**14**	100	07/07/08	07/08/08	
Pentanoic Acid	AM23G Pentanoic Acid	M080626010	0.07	0.07	**3.4**	1	06/26/08	07/04/08	
Propionic Acid	AM23G Propionic Acid	M080709033	0.52	0.7	**71**	10	07/07/08	07/08/08	
Pyruvic Acid	AM23G Pyruvic Acid	M080709033	0.67	0.7	**5.1**	10	07/07/08	07/08/08	
Sample ID: IRF1567-06 (AW0076UB_WG20080618_01 - Water)									
Reporting Units: mg/L									
Acetic Acid	AM23G Acetic Acid	M080709036	4.1	7	**440**	100	07/07/08	07/08/08	
Butyric Acid	AM23G Butyric Acid	M080709033	0.59	0.7	**29**	10	07/07/08	07/08/08	
Hexanoic Acid	AM23G Hexanoic Acid	M080626010	0.08	0.1	**3.9**	1	06/26/08	07/04/08	M
i-Hexanoic Acid	AM23G i-Hexanoic Acid	M080626010	0.08	0.1	**0.69**	1	06/26/08	07/04/08	
i-Pentanoic Acid	AM23G i-Pentanoic Acid	M080709033	0.7	0.7	**11**	10	07/07/08	07/08/08	
Lactic Acid and HIBA	23G Lactic Acid and H	M080709036	6.7	10	**12**	100	07/07/08	07/08/08	
Pentanoic Acid	AM23G Pentanoic Acid	M080626010	0.07	0.07	**6.1**	1	06/26/08	07/04/08	
Propionic Acid	AM23G Propionic Acid	M080709036	5.2	7	**110**	100	07/07/08	07/08/08	
Pyruvic Acid	AM23G Pyruvic Acid	M080709033	0.67	0.7	**4.5**	10	07/07/08	07/08/08	

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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: IRF1567

Sampled: 06/18/08
Received: 06/18/08

RSK175 Dissolved Gases in Water

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRF1567-01 (EWB002_WG20080618_01 - Water)									
Reporting Units: ug/L									
Methane	RSK-175	080623G28A	0.39	1.0	**14000**	1	06/23/08	06/23/08	
Ethane	RSK-175	080623G28A	0.50	1.0	ND	1	06/23/08	06/23/08	
Ethylene	RSK-175	080623G28A	0.33	1.0	**40**	1	06/23/08	06/23/08	
Sample ID: IRF1567-02 (AW0055UB_WG20080618_01 - Water)									
Reporting Units: ug/L									
Methane	RSK-175	080623G28A	0.39	1.0	**1.7**	1	06/23/08	06/23/08	
Ethane	RSK-175	080623G28A	0.50	1.0	ND	1	06/23/08	06/23/08	
Ethylene	RSK-175	080623G28A	0.33	1.0	**1.9**	1	06/23/08	06/23/08	
Sample ID: IRF1567-04 (AW0075UB_WG20080618_01 - Water)									
Reporting Units: ug/L									
Methane	RSK-175	080623G28A	0.39	1.0	**11000**	1	06/23/08	06/23/08	
Ethane	RSK-175	080623G28A	0.50	1.0	ND	1	06/23/08	06/23/08	
Ethylene	RSK-175	080623G28A	0.33	1.0	**14**	1	06/23/08	06/23/08	
Sample ID: IRF1567-05 (AW0077UB_WG20080618_01 - Water)									
Reporting Units: ug/L									
Methane	RSK-175	080623G28A	0.39	1.0	**13000**	1	06/23/08	06/23/08	
Ethane	RSK-175	080623G28A	0.50	1.0	ND	1	06/23/08	06/23/08	
Ethylene	RSK-175	080623G28A	0.33	1.0	**89**	1	06/23/08	06/23/08	
Sample ID: IRF1567-06 (AW0076UB_WG20080618_01 - Water)									
Reporting Units: ug/L									
Methane	RSK-175	080623G28A	0.39	1.0	**4200**	1	06/23/08	06/23/08	
Ethane	RSK-175	080623G28A	0.50	1.0	ND	1	06/23/08	06/23/08	
Ethylene	RSK-175	080623G28A	0.33	1.0	**42**	1	06/23/08	06/23/08	

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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: IRF1567

Sampled: 06/18/08
Received: 06/18/08

SHORT HOLD TIME DETAIL REPORT

	Hold Time (in days)	Date/Time Sampled	Date/Time Received	Date/Time Extracted	Date/Time Analyzed
Sample ID: EWB002_WG20080618_01 (IRF1567-01) - Water					
EPA 300.0	2	06/18/2008 08:04	06/18/2008 14:45	06/18/2008 16:00	06/18/2008 20:14
Nitrite-NO2				06/18/2008 16:00	06/18/2008 23:51
Sample ID: AW0055UB_WG20080618_01 (IRF1567-02) - Water					
EPA 300.0	2	06/18/2008 09:05	06/18/2008 14:45	06/18/2008 16:00	06/18/2008 20:29
Sample ID: AW0075UB_WG20080618_01 (IRF1567-04) - Water					
EPA 300.0	2	06/18/2008 11:40	06/18/2008 14:45	06/19/2008 13:45	06/19/2008 19:29
Nitrite-NO2				06/19/2008 13:45	06/19/2008 19:44
Sample ID: AW0077UB_WG20080618_01 (IRF1567-05) - Water					
EPA 300.0	2	06/18/2008 10:10	06/18/2008 14:45	06/19/2008 13:45	06/19/2008 21:55
Nitrite-NO2				06/19/2008 13:45	06/19/2008 22:10
Sample ID: AW0076UB_WG20080618_01 (IRF1567-06) - Water					
EPA 300.0	2	06/18/2008 13:10	06/18/2008 14:45	06/19/2008 13:45	06/19/2008 22:25

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BOE-C6-0188978

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: IRF1567

Sampled: 06/18/08
Received: 06/18/08

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: 8F22005 Extracted: 06/22/08											
Blank Analyzed: 06/22/2008 (8F22005-BLK1)											
Acetone	ND	10	4.5	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							
2-Butanone (MEK)	ND	5.0	4.7	ug/l							
n-Butylbenzene	ND	1.0	0.37	ug/l							
tert-Butylbenzene	ND	1.0	0.22	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							
4-Chlorotoluene	ND	1.0	0.29	ug/l							
2-Chlorotoluene	ND	1.0	0.28	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							
1,2-Dichlorobenzene	ND	1.0	0.32	ug/l							
1,3-Dichlorobenzene	ND	1.0	0.35	ug/l							
1,4-Dichlorobenzene	ND	1.0	0.37	ug/l							
Dichlorodifluoromethane	ND	1.0	0.26	ug/l							
1,1-Dichloroethane	ND	1.0	0.40	ug/l							
cis-1,2-Dichloroethene	ND	1.0	0.32	ug/l							
trans-1,2-Dichloroethene	ND	1.0	0.30	ug/l							
1,1-Dichloroethene	ND	1.0	0.42	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							
trans-1,3-Dichloropropene	ND	0.50	0.32	ug/l							
1,1-Dichloropropene	ND	1.0	0.28	ug/l							

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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: IRF1567

Sampled: 06/18/08
Received: 06/18/08

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: 8F22005 Extracted: 06/22/08											
Blank Analyzed: 06/22/2008 (8F22005-BLK1)											
Ethylbenzene	ND	1.0	0.25	ug/l							
1,2-Dichloroethane	ND	0.50	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							
4-Methyl-2-pentanone (MIBK)	ND	5.0	3.5	ug/l							
Methylene chloride	ND	1.0	0.95	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							
1,2,4-Trimethylbenzene	ND	1.0	0.23	ug/l							
1,3,5-Trimethylbenzene	ND	1.0	0.26	ug/l							
Vinyl acetate	ND	6.0	1.0	ug/l							
Vinyl chloride	ND	0.50	0.40	ug/l							
m,p-Xylenes	ND	1.0	0.60	ug/l							
o-Xylene	ND	0.50	0.30	ug/l							
Xylenes, Total	ND	1.0	0.90	ug/l							
Di-isopropyl Ether (DIPE)	ND	2.0	0.25	ug/l							
Ethyl tert-Butyl Ether (ETBE)	ND	2.0	0.28	ug/l							
Methyl-tert-butyl Ether (MTBE)	ND	1.0	0.32	ug/l							
tert-Amyl Methyl Ether (TAME)	ND	2.0	0.33	ug/l							
tert-Butanol (TBA)	ND	25	6.5	ug/l							

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BOE-C6-0188979

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: IRF1567

Sampled: 06/18/08
Received: 06/18/08

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: 8F22005 Extracted: 06/22/08											
Blank Analyzed: 06/22/2008 (8F22005-BLK1)											
Surrogate: 4-Bromofluorobenzene	*22.4*			*ug/l*	*25.0*		*90*	*80-120*			
Surrogate: Dibromofluoromethane	*21.6*			*ug/l*	*25.0*		*87*	*80-120*			
Surrogate: Toluene-d8	*22.4*			*ug/l*	*25.0*		*90*	*80-120*			
LCS Analyzed: 06/22/2008 (8F22005-BS1)											
Acetone	23.8	10	4.5	ug/l	25.0		95	30-140			
Benzene	25.5	0.50	0.28	ug/l	25.0		102	70-120			
Bromobenzene	27.7	1.0	0.27	ug/l	25.0		111	75-120			
Bromochloromethane	26.0	1.0	0.40	ug/l	25.0		104	70-130			
Bromodichloromethane	27.2	1.0	0.30	ug/l	25.0		109	70-135			
Bromoform	24.3	1.0	0.40	ug/l	25.0		97	55-130			
Bromomethane	26.7	1.0	0.42	ug/l	25.0		107	65-140			
2-Butanone (MEK)	24.8	5.0	4.7	ug/l	25.0		99	40-140			
n-Butylbenzene	28.0	1.0	0.37	ug/l	25.0		112	70-130			
tert-Butylbenzene	27.6	1.0	0.22	ug/l	25.0		110	70-125			
sec-Butylbenzene	28.0	1.0	0.25	ug/l	25.0		112	70-125			
Carbon Disulfide	24.1	1.0	0.48	ug/l	25.0		97	50-130			
Carbon tetrachloride	28.1	0.50	0.28	ug/l	25.0		112	65-140			
Chlorobenzene	25.6	1.0	0.36	ug/l	25.0		102	75-120			
Chloroethane	27.1	2.0	0.40	ug/l	25.0		109	60-140			
Chloroform	24.7	1.0	0.33	ug/l	25.0		99	70-130			
Chloromethane	25.6	2.0	0.40	ug/l	25.0		102	50-140			
4-Chlorotoluene	27.6	1.0	0.29	ug/l	25.0		110	75-125			
2-Chlorotoluene	27.3	1.0	0.28	ug/l	25.0		109	70-125			
1,2-Dibromo-3-chloropropane	26.9	2.0	0.97	ug/l	25.0		108	50-135			
Dibromochloromethane	29.0	1.0	0.40	ug/l	25.0		116	70-140			
1,2-Dibromoethane (EDB)	27.6	1.0	0.40	ug/l	25.0		110	75-125			
1,2-Dichlorobenzene	26.9	1.0	0.32	ug/l	25.0		107	75-120			
1,3-Dichlorobenzene	27.0	1.0	0.35	ug/l	25.0		108	75-120			
1,4-Dichlorobenzene	25.6	1.0	0.37	ug/l	25.0		102	75-120			
Dichlorodifluoromethane	28.7	1.0	0.26	ug/l	25.0		115	35-155			
1,1-Dichloroethane	25.3	1.0	0.40	ug/l	25.0		101	70-125			
cis-1,2-Dichloroethene	24.3	1.0	0.32	ug/l	25.0		97	70-125			
trans-1,2-Dichloroethene	22.1	1.0	0.30	ug/l	25.0		88	70-125			
1,1-Dichloroethene	24.5	1.0	0.42	ug/l	25.0		98	70-125			
2,2-Dichloropropane	28.4	1.0	0.34	ug/l	25.0		114	65-140			

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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: IRF1567

Sampled: 06/18/08
Received: 06/18/08

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: 8F22005 Extracted: 06/22/08											
LCS Analyzed: 06/22/2008 (8F22005-BS1)											
1,2-Dichloropropane	25.9	1.0	0.35	ug/l	25.0		103	70-125			
cis-1,3-Dichloropropene	32.4	0.50	0.22	ug/l	25.0		130	75-125			*L*
trans-1,3-Dichloropropene	26.5	0.50	0.32	ug/l	25.0		106	70-125			
1,1-Dichloropropene	28.3	1.0	0.28	ug/l	25.0		113	75-130			
Ethylbenzene	26.9	1.0	0.25	ug/l	25.0		108	75-125			
1,2-Dichloroethane	27.1	0.50	0.28	ug/l	25.0		108	60-140			
Hexachlorobutadiene	25.4	1.0	0.38	ug/l	25.0		102	65-135			
2-Hexanone	25.1	6.0	2.6	ug/l	25.0		101	45-140			
Isopropylbenzene	29.0	1.0	0.25	ug/l	25.0		116	75-130			
p-Isopropyltoluene	28.3	1.0	0.28	ug/l	25.0		113	75-125			
4-Methyl-2-pentanone (MIBK)	26.0	5.0	3.5	ug/l	25.0		104	45-140			
Methylene chloride	24.6	1.0	0.95	ug/l	25.0		98	55-130			
n-Propylbenzene	28.2	1.0	0.27	ug/l	25.0		113	75-130			
Styrene	27.0	1.0	0.20	ug/l	25.0		108	75-130			
1,1,1,2-Tetrachloroethane	27.5	1.0	0.27	ug/l	25.0		110	70-130			
1,1,2,2-Tetrachloroethane	29.4	1.0	0.30	ug/l	25.0		118	55-130			
Tetrachloroethene	26.7	1.0	0.32	ug/l	25.0		107	70-125			
Toluene	26.1	1.0	0.36	ug/l	25.0		104	70-120			
1,2,3-Trichlorobenzene	25.5	1.0	0.30	ug/l	25.0		102	65-125			
1,2,4-Trichlorobenzene	27.1	1.0	0.48	ug/l	25.0		108	70-135			
1,1,1-Trichloroethane	26.2	1.0	0.30	ug/l	25.0		105	65-135			
1,1,2-Trichloroethane	27.3	1.0	0.30	ug/l	25.0		109	70-125			
Trichloroethene	27.2	1.0	0.26	ug/l	25.0		109	70-125			
Trichlorofluoromethane	27.2	2.0	0.34	ug/l	25.0		109	65-145			
1,2,3-Trichloropropane	28.2	1.0	0.40	ug/l	25.0		113	60-130			
1,2,4-Trimethylbenzene	28.7	1.0	0.23	ug/l	25.0		115	75-125			
1,3,5-Trimethylbenzene	28.5	1.0	0.26	ug/l	25.0		114	75-125			
Vinyl acetate	28.0	6.0	1.0	ug/l	25.0		112	45-145			
Vinyl chloride	27.9	0.50	0.40	ug/l	25.0		112	55-135			
m,p-Xylenes	53.5	1.0	0.60	ug/l	50.0		107	75-125			
o-Xylene	26.7	0.50	0.30	ug/l	25.0		107	75-125			
Di-isopropyl Ether (DIPE)	25.1	2.0	0.25	ug/l	25.0		100	60-135			
Ethyl tert-Butyl Ether (ETBE)	25.7	2.0	0.28	ug/l	25.0		103	65-135			
Methyl-tert-butyl Ether (MTBE)	25.7	1.0	0.32	ug/l	25.0		103	60-135			
tert-Amyl Methyl Ether (TAME)	25.8	2.0	0.33	ug/l	25.0		103	60-135			

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BOE-C6-0188980

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: IRF1567

Sampled: 06/18/08
Received: 06/18/08

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: 8F22005 Extracted: 06/22/08											
LCS Analyzed: 06/22/2008 (8F22005-BS1)											
tert-Butanol (TBA)	133	25	6.5	ug/l	125		107	70-135			
Surrogate: 4-Bromofluorobenzene	*22.2*			*ug/l*	*25.0*		*89*	*80-120*			
Surrogate: Dibromofluoromethane	*22.0*			*ug/l*	*25.0*		*88*	*80-120*			
Surrogate: Toluene-d8	*22.5*			*ug/l*	*25.0*		*90*	*80-120*			
Matrix Spike Analyzed: 06/22/2008 (8F22005-MS1)						**Source: IRF1437-01RE1**					
Acetone	20.1	10	4.5	ug/l	25.0	ND	80	20-150			
Benzene	24.5	0.50	0.28	ug/l	25.0	ND	98	65-125			
Bromobenzene	26.7	1.0	0.27	ug/l	25.0	ND	107	70-125			
Bromochloromethane	25.0	1.0	0.40	ug/l	25.0	ND	100	65-135			
Bromodichloromethane	27.2	1.0	0.30	ug/l	25.0	ND	109	70-135			
Bromoform	23.3	1.0	0.40	ug/l	25.0	ND	93	55-135			
Bromomethane	24.1	1.0	0.42	ug/l	25.0	ND	96	55-145			
2-Butanone (MEK)	23.4	5.0	4.7	ug/l	25.0	ND	94	30-145			
n-Butylbenzene	27.0	1.0	0.37	ug/l	25.0	ND	108	65-135			
tert-Butylbenzene	26.6	1.0	0.22	ug/l	25.0	ND	107	65-130			
sec-Butylbenzene	26.9	1.0	0.25	ug/l	25.0	ND	108	70-125			
Carbon Disulfide	23.4	1.0	0.48	ug/l	25.0	ND	93	40-140			
Carbon tetrachloride	27.6	0.50	0.28	ug/l	25.0	ND	111	65-140			
Chlorobenzene	25.4	1.0	0.36	ug/l	25.0	ND	101	75-125			
Chloroethane	25.2	2.0	0.40	ug/l	25.0	ND	101	55-140			
Chloroform	26.2	1.0	0.33	ug/l	25.0	2.25	96	65-135			
Chloromethane	20.9	2.0	0.40	ug/l	25.0	ND	84	45-145			
4-Chlorotoluene	26.9	1.0	0.29	ug/l	25.0	ND	108	70-135			
2-Chlorotoluene	26.1	1.0	0.28	ug/l	25.0	ND	104	65-135			
1,2-Dibromo-3-chloropropane	23.2	2.0	0.97	ug/l	25.0	ND	93	45-145			
Dibromochloromethane	28.1	1.0	0.40	ug/l	25.0	ND	112	65-140			
1,2-Dibromoethane (EDB)	26.4	1.0	0.40	ug/l	25.0	ND	106	70-130			
1,2-Dichlorobenzene	26.2	1.0	0.32	ug/l	25.0	ND	105	75-125			
1,3-Dichlorobenzene	26.3	1.0	0.35	ug/l	25.0	ND	105	75-125			
1,4-Dichlorobenzene	24.9	1.0	0.37	ug/l	25.0	ND	99	75-125			
Dichlorodifluoromethane	18.7	1.0	0.26	ug/l	25.0	ND	75	25-155			
1,1-Dichloroethane	29.3	1.0	0.40	ug/l	25.0	5.51	95	65-130			
cis-1,2-Dichloroethene	23.7	1.0	0.32	ug/l	25.0	ND	95	65-130			
trans-1,2-Dichloroethene	21.3	1.0	0.30	ug/l	25.0	ND	85	65-130			
1,1-Dichloroethene	25.5	1.0	0.42	ug/l	25.0	3.37	89	60-130			

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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: IRF1567

Sampled: 06/18/08
Received: 06/18/08

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: 8F22005 Extracted: 06/22/08											
Matrix Spike Analyzed: 06/22/2008 (8F22005-MS1)						**Source: IRF1437-01RE1**					
2,2-Dichloropropane	28.1	1.0	0.34	ug/l	25.0	ND	113	60-145			
1,2-Dichloropropane	25.1	1.0	0.35	ug/l	25.0	ND	100	65-130			
cis-1,3-Dichloropropene	31.2	0.50	0.22	ug/l	25.0	ND	125	70-130			
trans-1,3-Dichloropropene	25.4	0.50	0.32	ug/l	25.0	ND	102	65-135			
1,1-Dichloropropene	27.2	1.0	0.28	ug/l	25.0	ND	109	70-135			
Ethylbenzene	26.7	1.0	0.25	ug/l	25.0	ND	107	65-130			
1,2-Dichloroethane	26.6	0.50	0.28	ug/l	25.0	ND	107	60-140			
Hexachlorobutadiene	24.9	1.0	0.38	ug/l	25.0	ND	99	60-135			
2-Hexanone	22.8	6.0	2.6	ug/l	25.0	ND	91	25-140			
Isopropylbenzene	27.4	1.0	0.25	ug/l	25.0	ND	110	70-135			
p-Isopropyltoluene	27.3	1.0	0.28	ug/l	25.0	ND	109	65-130			
4-Methyl-2-pentanone (MIBK)	24.0	5.0	3.5	ug/l	25.0	ND	96	40-140			
Methylene chloride	23.7	1.0	0.95	ug/l	25.0	ND	95	50-135			
n-Propylbenzene	27.2	1.0	0.27	ug/l	25.0	ND	109	70-135			
Styrene	22.4	1.0	0.20	ug/l	25.0	ND	89	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	26.4	1.0	0.30	ug/l	25.0	ND	106	55-135			
Tetrachloroethene	26.5	1.0	0.32	ug/l	25.0	0.350	105	65-130			
Toluene	25.5	1.0	0.36	ug/l	25.0	ND	102	70-125			
1,2,3-Trichlorobenzene	25.4	1.0	0.30	ug/l	25.0	ND	102	60-135			
1,2,4-Trichlorobenzene	27.0	1.0	0.48	ug/l	25.0	ND	108	65-135			
1,1,1-Trichloroethane	26.2	1.0	0.30	ug/l	25.0	ND	105	65-140			
1,1,2-Trichloroethane	26.3	1.0	0.30	ug/l	25.0	ND	105	65-130			
Trichloroethene	62.2	1.0	0.26	ug/l	25.0	44.8	70	65-125			
Trichlorofluoromethane	25.5	2.0	0.34	ug/l	25.0	ND	102	60-145			
1,2,3-Trichloropropane	25.8	1.0	0.40	ug/l	25.0	ND	103	55-135			
1,2,4-Trimethylbenzene	27.6	1.0	0.23	ug/l	25.0	ND	111	55-135			
1,3,5-Trimethylbenzene	27.4	1.0	0.26	ug/l	25.0	ND	109	70-130			
Vinyl acetate	23.6	6.0	1.0	ug/l	25.0	ND	94	40-150			
Vinyl chloride	24.4	0.50	0.40	ug/l	25.0	ND	98	45-140			
m,p-Xylenes	53.1	1.0	0.60	ug/l	50.0	ND	106	65-130			
o-Xylene	26.6	0.50	0.30	ug/l	25.0	ND	106	65-125			
Di-isopropyl Ether (DIPE)	25.6	2.0	0.25	ug/l	25.0	ND	102	60-140			
Ethyl tert-Butyl Ether (ETBE)	26.1	2.0	0.28	ug/l	25.0	ND	104	60-135			
Methyl-tert-butyl Ether (MTBE)	25.2	1.0	0.32	ug/l	25.0	ND	101	55-145			

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BOE-C6-0188981

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: IRF1567

Sampled: 06/18/08
Received: 06/18/08

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: 8F22005 Extracted: 06/22/08											
Matrix Spike Analyzed: 06/22/2008 (8F22005-MS1)						**Source: IRF1437-01RE1**					
tert-Amyl Methyl Ether (TAME)	26.3	2.0	0.33	ug/l	25.0	ND	105	60-140			
tert-Butanol (TBA)	144	25	6.5	ug/l	125	ND	115	65-140			
Surrogate: 4-Bromofluorobenzene	*22.9*			*ug/l*	*25.0*		*92*	*80-120*			
Surrogate: Dibromofluoromethane	*22.7*			*ug/l*	*25.0*		*91*	*80-120*			
Surrogate: Toluene-d8	*22.5*			*ug/l*	*25.0*		*90*	*80-120*			
Matrix Spike Dup Analyzed: 06/22/2008 (8F22005-MSD1)						**Source: IRF1437-01RE1**					
Acetone	20.2	10	4.5	ug/l	25.0	ND	81	20-150	1	35	
Benzene	24.1	0.50	0.28	ug/l	25.0	ND	96	65-125	2	20	
Bromobenzene	26.2	1.0	0.27	ug/l	25.0	ND	105	70-125	2	20	
Bromochloromethane	25.1	1.0	0.40	ug/l	25.0	ND	100	65-135	0	25	
Bromodichloromethane	26.5	1.0	0.30	ug/l	25.0	ND	106	70-135	2	20	
Bromoform	22.8	1.0	0.40	ug/l	25.0	ND	91	55-135	2	25	
Bromomethane	23.3	1.0	0.42	ug/l	25.0	ND	93	55-145	4	25	
2-Butanone (MEK)	24.9	5.0	4.7	ug/l	25.0	ND	100	30-145	6	40	
n-Butylbenzene	26.7	1.0	0.37	ug/l	25.0	ND	107	65-135	1	20	
tert-Butylbenzene	26.1	1.0	0.22	ug/l	25.0	ND	105	65-130	2	20	
sec-Butylbenzene	26.5	1.0	0.25	ug/l	25.0	ND	106	70-125	2	20	
Carbon Disulfide	23.0	1.0	0.48	ug/l	25.0	ND	92	40-140	2	20	
Carbon tetrachloride	26.6	0.50	0.28	ug/l	25.0	ND	107	65-140	4	25	
Chlorobenzene	24.8	1.0	0.36	ug/l	25.0	ND	99	75-125	2	20	
Chloroethane	24.2	2.0	0.40	ug/l	25.0	ND	97	55-140	4	25	
Chloroform	25.8	1.0	0.33	ug/l	25.0	2.25	94	65-135	1	20	
Chloromethane	20.3	2.0	0.40	ug/l	25.0	ND	81	45-145	3	25	
4-Chlorotoluene	26.5	1.0	0.29	ug/l	25.0	ND	106	70-135	2	20	
2-Chlorotoluene	25.8	1.0	0.28	ug/l	25.0	ND	103	65-135	1	20	
1,2-Dibromo-3-chloropropane	25.3	2.0	0.97	ug/l	25.0	ND	101	45-145	9	30	
Dibromochloromethane	27.4	1.0	0.40	ug/l	25.0	ND	110	65-140	3	25	
1,2-Dibromoethane (EDB)	26.3	1.0	0.40	ug/l	25.0	ND	105	70-130	0	25	
1,2-Dichlorobenzene	26.2	1.0	0.32	ug/l	25.0	ND	105	75-125	0	20	
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	
Dichlorodifluoromethane	17.8	1.0	0.26	ug/l	25.0	ND	71	25-155	5	30	
1,1-Dichloroethane	29.0	1.0	0.40	ug/l	25.0	5.51	94	65-130	1	20	
cis-1,2-Dichloroethene	23.4	1.0	0.32	ug/l	25.0	ND	94	65-130	1	20	
trans-1,2-Dichloroethene	21.1	1.0	0.30	ug/l	25.0	ND	84	65-130	1	20	

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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)
1155.006
Report Number: IRF1567

Sampled: 06/18/08
Received: 06/18/08

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: 8F22005 Extracted: 06/22/08											
Matrix Spike Dup Analyzed: 06/22/2008 (8F22005-MSD1)						**Source: IRF1437-01RE1**					
1,1-Dichloroethene	25.7	1.0	0.42	ug/l	25.0	3.37	89	60-130	1	20	
2,2-Dichloropropane	26.7	1.0	0.34	ug/l	25.0	ND	107	60-145	5	25	
1,2-Dichloropropane	25.0	1.0	0.35	ug/l	25.0	ND	100	65-130	0	20	
cis-1,3-Dichloropropene	31.3	0.50	0.22	ug/l	25.0	ND	125	70-130	0	20	
trans-1,3-Dichloropropene	25.0	0.50	0.32	ug/l	25.0	ND	100	65-135	1	25	
1,1-Dichloropropene	26.5	1.0	0.28	ug/l	25.0	ND	106	70-135	3	20	
Ethylbenzene	25.8	1.0	0.25	ug/l	25.0	ND	103	65-130	4	20	
1,2-Dichloroethane	26.0	0.50	0.28	ug/l	25.0	ND	104	60-140	2	20	
Hexachlorobutadiene	25.7	1.0	0.38	ug/l	25.0	ND	103	60-135	3	20	
2-Hexanone	23.9	6.0	2.6	ug/l	25.0	ND	96	25-140	5	35	
Isopropylbenzene	27.0	1.0	0.25	ug/l	25.0	ND	108	70-135	2	20	
p-Isopropyltoluene	26.9	1.0	0.28	ug/l	25.0	ND	108	65-130	1	20	
4-Methyl-2-pentanone (MIBK)	24.9	5.0	3.5	ug/l	25.0	ND	100	40-140	4	35	
Methylene chloride	23.2	1.0	0.95	ug/l	25.0	ND	93	50-135	2	20	
n-Propylbenzene	26.6	1.0	0.27	ug/l	25.0	ND	106	70-135	2	20	
Styrene	21.0	1.0	0.20	ug/l	25.0	ND	84	50-145	6	30	
1,1,1,2-Tetrachloroethane	26.3	1.0	0.27	ug/l	25.0	ND	105	65-140	3	20	
1,1,2,2-Tetrachloroethane	27.3	1.0	0.30	ug/l	25.0	ND	109	55-135	3	30	
Tetrachloroethene	25.3	1.0	0.32	ug/l	25.0	0.350	100	65-130	5	20	
Toluene	25.0	1.0	0.36	ug/l	25.0	ND	100	70-125	2	20	
1,2,3-Trichlorobenzene	26.3	1.0	0.30	ug/l	25.0	ND	105	60-135	3	20	
1,2,4-Trichlorobenzene	27.7	1.0	0.48	ug/l	25.0	ND	111	65-135	2	20	
1,1,1-Trichloroethane	25.2	1.0	0.30	ug/l	25.0	ND	101	65-140	4	20	
1,1,2-Trichloroethane	26.2	1.0	0.30	ug/l	25.0	ND	105	65-130	1	25	
Trichloroethene	63.7	1.0	0.26	ug/l	25.0	44.8	76	65-125	2	20	
Trichlorofluoromethane	24.3	2.0	0.34	ug/l	25.0	ND	97	60-145	5	25	
1,2,3-Trichloropropane	26.7	1.0	0.40	ug/l	25.0	ND	107	55-135	3	30	
1,2,4-Trimethylbenzene	27.1	1.0	0.23	ug/l	25.0	ND	108	55-135	2	25	
1,3,5-Trimethylbenzene	26.7	1.0	0.26	ug/l	25.0	ND	107	70-130	2	20	
Vinyl acetate	23.2	6.0	1.0	ug/l	25.0	ND	93	40-150	2	30	
Vinyl chloride	23.3	0.50	0.40	ug/l	25.0	ND	93	45-140	4	30	
m,p-Xylenes	51.5	1.0	0.60	ug/l	50.0	ND	103	65-130	3	25	
o-Xylene	25.7	0.50	0.30	ug/l	25.0	ND	103	65-125	3	20	
Di-isopropyl Ether (DIPE)	25.2	2.0	0.25	ug/l	25.0	ND	101	60-140	1	25	
Ethyl tert-Butyl Ether (ETBE)	26.0	2.0	0.28	ug/l	25.0	ND	104	60-135	0	25	

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BOE-C6-0188982

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: IRF1567

Sampled: 06/18/08
Received: 06/18/08

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: 8F22005 Extracted: 06/22/08											
Matrix Spike Dup Analyzed: 06/22/2008 (8F22005-MSD1)					Source: IRF1437-01RE1						
Methyl-tert-butyl Ether (MTBE)	25.6	1.0	0.32	ug/l	25.0	ND	102	55-145	1	25	
tert-Amyl Methyl Ether (TAME)	26.5	2.0	0.33	ug/l	25.0	ND	106	60-140	1	30	
tert-Butanol (TBA)	134	25	6.5	ug/l	125	ND	107	65-140	7	25	
Surrogate: 4-Bromofluorobenzene	*22.8*			*ug/l*	*25.0*		*91*	*80-120*			
Surrogate: Dibromofluoromethane	*22.4*			*ug/l*	*25.0*		*90*	*80-120*			
Surrogate: Toluene-d8	*22.4*			*ug/l*	*25.0*		*90*	*80-120*			
Batch: 8F23038 Extracted: 06/23/08											
Blank Analyzed: 06/23/2008 (8F23038-BLK1)											
Acetone	ND	10	4.5	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							
2-Butanone (MEK)	ND	5.0	4.7	ug/l							
n-Butylbenzene	ND	1.0	0.37	ug/l							
tert-Butylbenzene	ND	1.0	0.22	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							
4-Chlorotoluene	ND	1.0	0.29	ug/l							
2-Chlorotoluene	ND	1.0	0.28	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							
1,2-Dichlorobenzene	ND	1.0	0.32	ug/l							
1,3-Dichlorobenzene	ND	1.0	0.35	ug/l							
1,4-Dichlorobenzene	ND	1.0	0.37	ug/l							
Dichlorodifluoromethane	ND	1.0	0.26	ug/l							

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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: IRF1567

Sampled: 06/18/08
Received: 06/18/08

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: 8F23038 Extracted: 06/23/08											
Blank Analyzed: 06/23/2008 (8F23038-BLK1)											
1,1-Dichloroethane	ND	1.0	0.40	ug/l							
cis-1,2-Dichloroethene	ND	1.0	0.32	ug/l							
trans-1,2-Dichloroethene	ND	1.0	0.30	ug/l							
1,1-Dichloroethene	ND	1.0	0.42	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							
trans-1,3-Dichloropropene	ND	0.50	0.32	ug/l							
1,1-Dichloropropene	ND	1.0	0.28	ug/l							
Ethylbenzene	ND	1.0	0.25	ug/l							
1,2-Dichloroethane	ND	0.50	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							
4-Methyl-2-pentanone (MIBK)	ND	5.0	3.5	ug/l							
Methylene chloride	ND	1.0	0.95	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							
1,2,4-Trimethylbenzene	ND	1.0	0.23	ug/l							
1,3,5-Trimethylbenzene	ND	1.0	0.26	ug/l							
Vinyl acetate	ND	6.0	1.0	ug/l							

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BOE-C6-0188983

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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: IRF1567

Sampled: 06/18/08
Received: 06/18/08

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: 8F23038 Extracted: 06/23/08											
Blank Analyzed: 06/23/2008 (8F23038-BLK1)											
Vinyl chloride	ND	0.50	0.40	ug/l							
m,p-Xylenes	ND	1.0	0.60	ug/l							
o-Xylene	ND	0.50	0.30	ug/l							
Xylenes, Total	ND	1.0	0.90	ug/l							
Di-isopropyl Ether (DIPE)	ND	2.0	0.25	ug/l							
Ethyl tert-Butyl Ether (ETBE)	ND	2.0	0.28	ug/l							
Methyl-tert-butyl Ether (MTBE)	ND	1.0	0.32	ug/l							
tert-Amyl Methyl Ether (TAME)	ND	2.0	0.33	ug/l							
tert-Butanol (TBA)	ND	25	6.5	ug/l							
Surrogate: 4-Bromofluorobenzene	*24.1*			*ug/l*	*25.0*		*96*	*80-120*			
Surrogate: Dibromofluoromethane	*25.4*			*ug/l*	*25.0*		*101*	*80-120*			
Surrogate: Toluene-d8	*23.7*			*ug/l*	*25.0*		*95*	*80-120*			
LCS Analyzed: 06/23/2008 (8F23038-BS1)											
Acetone	24.1	10	4.5	ug/l	25.0		97	30-140			
Benzene	22.5	0.50	0.28	ug/l	25.0		90	70-120			
Bromobenzene	26.2	1.0	0.27	ug/l	25.0		105	75-120			
Bromochloromethane	28.1	1.0	0.40	ug/l	25.0		113	70-130			
Bromodichloromethane	28.5	1.0	0.30	ug/l	25.0		114	70-135			
Bromoform	26.2	1.0	0.40	ug/l	25.0		105	55-130			
Bromomethane	28.4	1.0	0.42	ug/l	25.0		114	65-140			
2-Butanone (MEK)	19.8	5.0	4.7	ug/l	25.0		79	40-140			
n-Butylbenzene	22.7	1.0	0.37	ug/l	25.0		91	70-130			
tert-Butylbenzene	24.1	1.0	0.22	ug/l	25.0		96	70-125			
sec-Butylbenzene	22.4	1.0	0.25	ug/l	25.0		90	70-125			
Carbon Disulfide	21.6	1.0	0.48	ug/l	25.0		87	50-130			
Carbon tetrachloride	31.2	0.50	0.28	ug/l	25.0		125	65-140			
Chlorobenzene	23.2	1.0	0.36	ug/l	25.0		93	75-120			
Chloroethane	26.2	2.0	0.40	ug/l	25.0		105	60-140			
Chloroform	26.6	1.0	0.33	ug/l	25.0		107	70-130			
Chloromethane	26.0	2.0	0.40	ug/l	25.0		104	50-140			
4-Chlorotoluene	24.6	1.0	0.29	ug/l	25.0		98	75-125			
2-Chlorotoluene	23.8	1.0	0.28	ug/l	25.0		95	70-125			
1,2-Dibromo-3-chloropropane	25.4	2.0	0.97	ug/l	25.0		102	50-135			
Dibromochloromethane	31.5	1.0	0.40	ug/l	25.0		126	70-140			
1,2-Dibromoethane (EDB)	25.8	1.0	0.40	ug/l	25.0		103	75-125			

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Project Manager

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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: IRF1567

Sampled: 06/18/08
Received: 06/18/08

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: 8F23038 Extracted: 06/23/08											
LCS Analyzed: 06/23/2008 (8F23038-BS1)											
1,2-Dichlorobenzene	25.0	1.0	0.32	ug/l	25.0		100	75-120			
1,3-Dichlorobenzene	25.7	1.0	0.35	ug/l	25.0		103	75-120			
1,4-Dichlorobenzene	23.3	1.0	0.37	ug/l	25.0		93	75-120			
Dichlorodifluoromethane	27.5	1.0	0.26	ug/l	25.0		110	35-155			
1,1-Dichloroethane	25.6	1.0	0.40	ug/l	25.0		102	70-125			
cis-1,2-Dichloroethene	22.8	1.0	0.32	ug/l	25.0		91	70-125			
trans-1,2-Dichloroethene	20.9	1.0	0.30	ug/l	25.0		84	70-125			
1,1-Dichloroethene	22.3	1.0	0.42	ug/l	25.0		89	70-125			
2,2-Dichloropropane	29.2	1.0	0.34	ug/l	25.0		117	65-140			
1,2-Dichloropropane	24.8	1.0	0.35	ug/l	25.0		99	70-125			
cis-1,3-Dichloropropene	28.2	0.50	0.22	ug/l	25.0		113	75-125			
trans-1,3-Dichloropropene	30.1	0.50	0.32	ug/l	25.0		120	70-125			
1,1-Dichloropropene	24.1	1.0	0.28	ug/l	25.0		96	75-130			
Ethylbenzene	22.9	1.0	0.25	ug/l	25.0		92	75-125			
1,2-Dichloroethane	30.4	0.50	0.28	ug/l	25.0		121	60-140			
Hexachlorobutadiene	20.9	1.0	0.38	ug/l	25.0		84	65-135			
2-Hexanone	19.3	6.0	2.6	ug/l	25.0		77	45-140			
Isopropylbenzene	27.3	1.0	0.25	ug/l	25.0		109	75-130			
p-Isopropyltoluene	23.7	1.0	0.28	ug/l	25.0		95	75-125			
4-Methyl-2-pentanone (MIBK)	21.7	5.0	3.5	ug/l	25.0		87	45-140			
Methylene chloride	24.2	1.0	0.95	ug/l	25.0		97	55-130			
n-Propylbenzene	24.6	1.0	0.27	ug/l	25.0		98	75-130			
Styrene	25.9	1.0	0.20	ug/l	25.0		104	75-130			
1,1,1,2-Tetrachloroethane	29.2	1.0	0.27	ug/l	25.0		117	70-130			
1,1,2,2-Tetrachloroethane	25.4	1.0	0.30	ug/l	25.0		102	55-130			
Tetrachloroethene	23.8	1.0	0.32	ug/l	25.0		95	70-125			
Toluene	22.4	1.0	0.36	ug/l	25.0		89	70-120			
1,2,3-Trichlorobenzene	23.9	1.0	0.30	ug/l	25.0		96	65-125			
1,2,4-Trichlorobenzene	25.1	1.0	0.48	ug/l	25.0		100	70-135			
1,1,1-Trichloroethane	28.9	1.0	0.30	ug/l	25.0		116	65-135			
1,1,2-Trichloroethane	26.4	1.0	0.30	ug/l	25.0		106	70-125			
Trichloroethene	25.0	1.0	0.26	ug/l	25.0		100	70-125			
Trichlorofluoromethane	28.2	2.0	0.34	ug/l	25.0		113	65-145			
1,2,3-Trichloropropane	24.6	1.0	0.40	ug/l	25.0		98	60-130			
1,2,4-Trimethylbenzene	24.2	1.0	0.23	ug/l	25.0		97	75-125			

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Project Manager

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BOE-C6-0188984

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: IRF1567

Sampled: 06/18/08
Received: 06/18/08

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: 8F23038 Extracted: 06/23/08											
LCS Analyzed: 06/23/2008 (8F23038-BS1)											
1,3,5-Trimethylbenzene	24.2	1.0	0.26	ug/l	25.0		97	75-125			
Vinyl acetate	26.5	6.0	1.0	ug/l	25.0		106	45-145			
Vinyl chloride	25.6	0.50	0.40	ug/l	25.0		102	55-135			
m,p-Xylenes	45.9	1.0	0.60	ug/l	50.0		92	75-125			
o-Xylene	25.5	0.50	0.30	ug/l	25.0		102	75-125			
Di-isopropyl Ether (DIPE)	24.0	2.0	0.25	ug/l	25.0		96	60-135			
Ethyl tert-Butyl Ether (ETBE)	26.7	2.0	0.28	ug/l	25.0		107	65-135			
Methyl-tert-butyl Ether (MTBE)	26.5	1.0	0.32	ug/l	25.0		106	60-135			
tert-Amyl Methyl Ether (TAME)	27.0	2.0	0.33	ug/l	25.0		108	60-135			
tert-Butanol (TBA)	144	25	6.5	ug/l	125		115	70-135			
Surrogate: 4-Bromofluorobenzene	*23.8*			*ug/l*	*25.0*		*95*	*80-120*			
Surrogate: Dibromofluoromethane	*26.0*			*ug/l*	*25.0*		*104*	*80-120*			
Surrogate: Toluene-d8	*23.5*			*ug/l*	*25.0*		*94*	*80-120*			
Matrix Spike Analyzed: 06/23/2008 (8F23038-MS1)						**Source: IRF1858-01**					
Acetone	256	100	45	ug/l	250	ND	103	20-150			
Benzene	244	5.0	2.8	ug/l	250	ND	98	65-125			
Bromobenzene	271	10	2.7	ug/l	250	ND	108	70-125			
Bromochloromethane	284	10	4.0	ug/l	250	ND	114	65-135			
Bromodichloromethane	316	10	3.0	ug/l	250	ND	127	70-135			
Bromoform	279	10	4.0	ug/l	250	ND	112	55-135			
Bromomethane	317	10	4.2	ug/l	250	ND	127	55-145			
2-Butanone (MEK)	231	50	47	ug/l	250	ND	92	30-145			
n-Butylbenzene	250	10	3.7	ug/l	250	ND	100	65-135			
tert-Butylbenzene	253	10	2.2	ug/l	250	ND	101	65-130			
sec-Butylbenzene	233	10	2.5	ug/l	250	ND	93	70-125			
Carbon Disulfide	233	10	4.8	ug/l	250	ND	93	40-140			
Carbon tetrachloride	360	5.0	2.8	ug/l	250	ND	144	65-140			*M1*
Chlorobenzene	258	10	3.6	ug/l	250	ND	103	75-125			
Chloroethane	270	20	4.0	ug/l	250	ND	108	55-140			
Chloroform	284	10	3.3	ug/l	250	ND	114	65-135			
Chloromethane	272	20	4.0	ug/l	250	ND	109	45-145			
4-Chlorotoluene	257	10	2.9	ug/l	250	ND	103	70-135			
2-Chlorotoluene	251	10	2.8	ug/l	250	ND	100	65-135			
1,2-Dibromo-3-chloropropane	289	20	9.7	ug/l	250	ND	116	45-145			
Dibromochloromethane	329	10	4.0	ug/l	250	ND	132	65-140			

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Trupti Mistry
Project Manager

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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: IRF1567

Sampled: 06/18/08
Received: 06/18/08

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: 8F23038 Extracted: 06/23/08											
Matrix Spike Analyzed: 06/23/2008 (8F23038-MS1)						**Source: IRF1858-01**					
1,2-Dibromoethane (EDB)	279	10	4.0	ug/l	250	ND	112	70-130			
1,2-Dichlorobenzene	264	10	3.2	ug/l	250	ND	106	75-125			
1,3-Dichlorobenzene	272	10	3.5	ug/l	250	ND	109	75-125			
1,4-Dichlorobenzene	248	10	3.7	ug/l	250	ND	99	75-125			
Dichlorodifluoromethane	306	10	2.6	ug/l	250	ND	122	25-155			
1,1-Dichloroethane	271	10	4.0	ug/l	250	ND	108	65-130			
cis-1,2-Dichloroethene	253	10	3.2	ug/l	250	10.5	97	65-130			
trans-1,2-Dichloroethene	234	10	3.0	ug/l	250	ND	94	65-130			
1,1-Dichloroethene	248	10	4.2	ug/l	250	ND	99	60-130			
2,2-Dichloropropane	311	10	3.4	ug/l	250	ND	125	60-145			
1,2-Dichloropropane	270	10	3.5	ug/l	250	ND	108	65-130			
cis-1,3-Dichloropropene	299	5.0	2.2	ug/l	250	ND	120	70-130			
trans-1,3-Dichloropropene	330	5.0	3.2	ug/l	250	ND	132	65-135			
1,1-Dichloropropene	273	10	2.8	ug/l	250	ND	109	70-135			
Ethylbenzene	260	10	2.5	ug/l	250	ND	104	65-130			
1,2-Dichloroethane	329	5.0	2.8	ug/l	250	ND	131	60-140			
Hexachlorobutadiene	232	10	3.8	ug/l	250	ND	93	60-135			
2-Hexanone	222	60	26	ug/l	250	ND	89	25-140			
Isopropylbenzene	293	10	2.5	ug/l	250	ND	117	70-135			
p-Isopropyltoluene	257	10	2.8	ug/l	250	ND	103	65-130			
4-Methyl-2-pentanone (MIBK)	251	50	35	ug/l	250	ND	100	40-140			
Methylene chloride	260	10	9.5	ug/l	250	ND	104	50-135			
n-Propylbenzene	266	10	2.7	ug/l	250	ND	106	70-135			
Styrene	277	10	2.0	ug/l	250	ND	111	50-145			
1,1,1,2-Tetrachloroethane	311	10	2.7	ug/l	250	ND	124	65-140			
1,1,2,2-Tetrachloroethane	269	10	3.0	ug/l	250	ND	108	55-135			
Tetrachloroethene	278	10	3.2	ug/l	250	ND	111	65-130			
Toluene	254	10	3.6	ug/l	250	ND	102	70-125			
1,2,3-Trichlorobenzene	264	10	3.0	ug/l	250	ND	106	60-135			
1,2,4-Trichlorobenzene	264	10	4.8	ug/l	250	ND	106	65-135			
1,1,1-Trichloroethane	318	10	3.0	ug/l	250	ND	127	65-140			
1,1,2-Trichloroethane	290	10	3.0	ug/l	250	ND	116	65-130			
Trichloroethene	461	10	2.6	ug/l	250	234	91	65-125			
Trichlorofluoromethane	318	20	3.4	ug/l	250	ND	127	60-145			
1,2,3-Trichloropropane	265	10	4.0	ug/l	250	ND	106	55-135			

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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: IRF1567

Sampled: 06/18/08
Received: 06/18/08

METHOD BLANK/QC DATA

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

Batch: 8F23038 Extracted: 06/23/08

Matrix Spike Analyzed: 06/23/2008 (8F23038-MS1) — Source: IRF1858-01

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
1,2,4-Trimethylbenzene	260	10	2.3	ug/l	250	ND	104	55-135			
1,3,5-Trimethylbenzene	262	10	2.6	ug/l	250	ND	105	70-130			
Vinyl acetate	287	60	10	ug/l	250	ND	115	40-150			
Vinyl chloride	286	5.0	4.0	ug/l	250	ND	114	45-140			
m,p-Xylenes	511	10	6.0	ug/l	500	ND	102	65-130			
o-Xylene	278	5.0	3.0	ug/l	250	ND	111	65-125			
Di-isopropyl Ether (DIPE)	260	20	2.5	ug/l	250	ND	104	60-140			
Ethyl tert-Butyl Ether (ETBE)	279	20	2.8	ug/l	250	ND	112	60-135			
Methyl-tert-butyl Ether (MTBE)	275	10	3.2	ug/l	250	ND	110	55-145			
tert-Amyl Methyl Ether (TAME)	283	20	3.3	ug/l	250	ND	113	60-140			
tert-Butanol (TBA)	1360	250	65	ug/l	1250	ND	109	65-140			
Surrogate: 4-Bromofluorobenzene	*257*			*ug/l*	*250*		*103*	*80-120*			
Surrogate: Dibromofluoromethane	*257*			*ug/l*	*250*		*103*	*80-120*			
Surrogate: Toluene-d8	*248*			*ug/l*	*250*		*99*	*80-120*			

Matrix Spike Dup Analyzed: 06/23/2008 (8F23038-MSD1) — Source: IRF1858-01

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Acetone	234	100	45	ug/l	250	ND	93	20-150	9	35	
Benzene	248	5.0	2.8	ug/l	250	ND	99	65-125	1	20	
Bromobenzene	283	10	2.7	ug/l	250	ND	113	70-125	4	20	
Bromochloromethane	294	10	4.0	ug/l	250	ND	118	65-135	3	25	
Bromodichloromethane	315	10	3.0	ug/l	250	ND	126	70-135	0	20	
Bromoform	269	10	4.0	ug/l	250	ND	108	55-135	4	25	
Bromomethane	333	10	4.2	ug/l	250	ND	133	55-145	5	25	
2-Butanone (MEK)	217	50	47	ug/l	250	ND	87	30-145	6	40	
n-Butylbenzene	254	10	3.7	ug/l	250	ND	102	65-135	2	20	
tert-Butylbenzene	268	10	2.2	ug/l	250	ND	107	65-130	6	20	
sec-Butylbenzene	246	10	2.5	ug/l	250	ND	98	70-125	5	20	
Carbon Disulfide	249	10	4.8	ug/l	250	ND	99	40-140	6	20	
Carbon tetrachloride	351	5.0	2.8	ug/l	250	ND	140	65-140	3	25	
Chlorobenzene	257	10	3.6	ug/l	250	ND	103	75-125	0	20	
Chloroethane	298	20	4.0	ug/l	250	ND	119	55-140	10	25	
Chloroform	299	10	3.3	ug/l	250	ND	120	65-135	5	20	
Chloromethane	294	20	4.0	ug/l	250	ND	118	45-145	8	25	
4-Chlorotoluene	278	10	2.9	ug/l	250	ND	111	70-135	8	20	
2-Chlorotoluene	267	10	2.8	ug/l	250	ND	107	65-135	6	20	
1,2-Dibromo-3-chloropropane	274	20	9.7	ug/l	250	ND	110	45-145	5	30	

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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: IRF1567

Sampled: 06/18/08
Received: 06/18/08

METHOD BLANK/QC DATA

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

Batch: 8F23038 Extracted: 06/23/08

Matrix Spike Dup Analyzed: 06/23/2008 (8F23038-MSD1) — Source: IRF1858-01

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Dibromochloromethane	326	10	4.0	ug/l	250	ND	130	65-140	1	25	
1,2-Dibromoethane (EDB)	272	10	4.0	ug/l	250	ND	109	70-130	3	25	
1,2-Dichlorobenzene	274	10	3.2	ug/l	250	ND	110	75-125	4	20	
1,3-Dichlorobenzene	276	10	3.5	ug/l	250	ND	110	75-125	2	20	
1,4-Dichlorobenzene	251	10	3.7	ug/l	250	ND	101	75-125	1	20	
Dichlorodifluoromethane	316	10	2.6	ug/l	250	ND	126	25-155	3	30	
1,1-Dichloroethane	288	10	4.0	ug/l	250	ND	115	65-130	6	20	
cis-1,2-Dichloroethene	261	10	3.2	ug/l	250	10.5	100	65-130	3	20	
trans-1,2-Dichloroethene	244	10	3.0	ug/l	250	ND	98	65-130	4	20	
1,1-Dichloroethene	259	10	4.2	ug/l	250	ND	104	60-130	5	20	
2,2-Dichloropropane	324	10	3.4	ug/l	250	ND	130	60-145	4	25	
1,2-Dichloropropane	268	10	3.5	ug/l	250	ND	107	65-130	1	20	
cis-1,3-Dichloropropene	312	5.0	2.2	ug/l	250	ND	125	70-130	4	20	
trans-1,3-Dichloropropene	326	5.0	3.2	ug/l	250	ND	130	65-135	1	25	
1,1-Dichloropropene	275	10	2.8	ug/l	250	ND	110	70-135	1	20	
Ethylbenzene	264	10	2.5	ug/l	250	ND	105	65-130	1	20	
1,2-Dichloroethane	328	5.0	2.8	ug/l	250	ND	131	60-140	0	20	
Hexachlorobutadiene	230	10	3.8	ug/l	250	ND	92	60-135	1	20	
2-Hexanone	200	60	26	ug/l	250	ND	80	25-140	11	35	
Isopropylbenzene	316	10	2.5	ug/l	250	ND	127	70-135	8	20	
p-Isopropyltoluene	265	10	2.8	ug/l	250	ND	106	65-130	3	20	
4-Methyl-2-pentanone (MIBK)	227	50	35	ug/l	250	ND	91	40-140	10	35	
Methylene chloride	268	10	9.5	ug/l	250	ND	107	50-135	3	20	
n-Propylbenzene	285	10	2.7	ug/l	250	ND	114	70-135	7	20	
Styrene	280	10	2.0	ug/l	250	ND	112	50-145	1	30	
1,1,1,2-Tetrachloroethane	313	10	2.7	ug/l	250	ND	125	65-140	1	20	
1,1,2,2-Tetrachloroethane	265	10	3.0	ug/l	250	ND	106	55-135	2	30	
Tetrachloroethene	274	10	3.2	ug/l	250	ND	109	65-130	1	20	
Toluene	263	10	3.6	ug/l	250	ND	105	70-125	3	20	
1,2,3-Trichlorobenzene	253	10	3.0	ug/l	250	ND	101	60-135	5	20	
1,2,4-Trichlorobenzene	259	10	4.8	ug/l	250	ND	104	65-135	2	20	
1,1,1-Trichloroethane	328	10	3.0	ug/l	250	ND	131	65-140	3	20	
1,1,2-Trichloroethane	275	10	3.0	ug/l	250	ND	110	65-130	5	25	
Trichloroethene	456	10	2.6	ug/l	250	234	89	65-125	1	20	
Trichlorofluoromethane	330	20	3.4	ug/l	250	ND	132	60-145	4	25	

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BOE-C6-0188986

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Attention: Michael Rendina

Project ID: Boeing C-6 Torrance (02/26/08)
1155.006
Report Number: IRF1567

Sampled: 06/18/08
Received: 06/18/08

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: 8F23038 Extracted: 06/23/08											
Matrix Spike Dup Analyzed: 06/23/2008 (8F23038-MSD1)						**Source: IRF1858-01**					
1,2,3-Trichloropropane	266	10	4.0	ug/l	250	ND	106	55-135	0	30	
1,2,4-Trimethylbenzene	271	10	2.3	ug/l	250	ND	109	55-135	4	25	
1,3,5-Trimethylbenzene	276	10	2.6	ug/l	250	ND	110	70-130	5	20	
Vinyl acetate	291	60	10	ug/l	250	ND	116	40-150	1	30	
Vinyl chloride	306	5.0	4.0	ug/l	250	ND	122	45-140	7	30	
m,p-Xylenes	517	10	6.0	ug/l	500	ND	103	65-130	1	25	
o-Xylene	274	5.0	3.0	ug/l	250	ND	110	65-125	1	20	
Di-isopropyl Ether (DIPE)	270	20	2.5	ug/l	250	ND	108	60-140	4	25	
Ethyl tert-Butyl Ether (ETBE)	290	20	2.8	ug/l	250	ND	116	60-135	4	25	
Methyl-tert-butyl Ether (MTBE)	282	10	3.2	ug/l	250	ND	113	55-145	2	25	
tert-Amyl Methyl Ether (TAME)	293	20	3.3	ug/l	250	ND	117	60-140	4	30	
tert-Butanol (TBA)	1390	250	65	ug/l	1250	ND	111	65-140	3	25	
Surrogate: 4-Bromofluorobenzene	*247*			*ug/l*	*250*		*99*	*80-120*			
Surrogate: Dibromofluoromethane	*254*			*ug/l*	*250*		*102*	*80-120*			
Surrogate: Toluene-d8	*241*			*ug/l*	*250*		*97*	*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: IRF1567

Sampled: 06/18/08
Received: 06/18/08

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8F18057 Extracted: 06/18/08											
Blank Analyzed: 06/18/2008 (8F18057-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: 06/18/2008 (8F18057-BS1)											
Chloride	4.97	0.50	0.25	mg/l	5.00		99	90-110			
Nitrate-NO3	5.38	0.50	0.25	mg/l	5.00		108	90-110			
Nitrite-NO2	5.09	0.50	0.30	mg/l	5.00		102	90-110			
Sulfate	10.9	0.50	0.20	mg/l	10.0		109	90-110			
Matrix Spike Analyzed: 06/18/2008 (8F18057-MS1)						**Source: IRF1537-03**					
Chloride	47.6	1.0	0.50	mg/l	5.00	42.5	102	80-120			*MHA*
Nitrate-NO3	16.4	1.0	0.50	mg/l	5.00	11.3	103	80-120			
Nitrite-NO2	5.22	1.0	0.60	mg/l	5.00	ND	104	80-120			
Sulfate	65.0	1.0	0.40	mg/l	10.0	53.9	111	80-120			*MHA*
Matrix Spike Analyzed: 06/18/2008 (8F18057-MS2)						**Source: IRF1485-04**					
Chloride	97.2	2.5	1.2	mg/l	5.00	90.9	126	80-120			*MHA*
Nitrate-NO3	40.5	2.5	1.2	mg/l	5.00	34.5	119	80-120			*MHA*
Nitrite-NO2	5.36	2.5	1.5	mg/l	5.00	ND	107	80-120			
Sulfate	26.3	2.5	1.0	mg/l	10.0	16.5	98	80-120			
Matrix Spike Dup Analyzed: 06/18/2008 (8F18057-MSD1)						**Source: IRF1537-03**					
Chloride	47.6	1.0	0.50	mg/l	5.00	42.5	102	80-120	0	20	*MHA*
Nitrate-NO3	17.4	1.0	0.50	mg/l	5.00	11.3	123	80-120	6	20	*M1*
Nitrite-NO2	6.21	1.0	0.60	mg/l	5.00	ND	124	80-120	17	20	*M1*
Sulfate	64.7	1.0	0.40	mg/l	10.0	53.9	108	80-120	1	20	*MHA*

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Received: 06/18/08

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8F19050 Extracted: 06/19/08											
Blank Analyzed: 06/19/2008 (8F19050-BLK1)											
Chloride	0.431	0.50	0.25	mg/l							*Ja*
Nitrate-NO3	0.362	0.50	0.25	mg/l							*Ja*
Nitrite-NO2	ND	0.50	0.30	mg/l							
Sulfate	ND	0.50	0.20	mg/l							
LCS Analyzed: 06/19/2008 (8F19050-BS1)											
Chloride	4.81	0.50	0.25	mg/l	5.00		96	90-110			
Nitrate-NO3	5.32	0.50	0.25	mg/l	5.00		106	90-110			
Nitrite-NO2	4.91	0.50	0.30	mg/l	5.00		98	90-110			
Sulfate	10.7	0.50	0.20	mg/l	10.0		107	90-110			
Matrix Spike Analyzed: 06/19/2008 (8F19050-MS1)						**Source: IRF1660-01**					
Chloride	240	10	5.0	mg/l	50.0	195	90	80-120			
Nitrate-NO3	101	10	5.0	mg/l	50.0	52.4	97	80-120			
Nitrite-NO2	52.7	10	6.0	mg/l	50.0	1.66	102	80-120			
Sulfate	483	10	4.0	mg/l	100	402	81	80-120			*MHA*
Matrix Spike Analyzed: 06/20/2008 (8F19050-MS2)						**Source: IRF1660-10**					
Chloride	261	20	10	mg/l	50.0	207	108	80-120			*MHA*
Nitrate-NO3	81.9	20	10	mg/l	50.0	28.2	107	80-120			
Nitrite-NO2	63.7	20	12	mg/l	50.0	2.86	122	80-120			*M1*
Sulfate	499	20	8.0	mg/l	100	409	90	80-120			*MHA*
Matrix Spike Dup Analyzed: 06/19/2008 (8F19050-MSD1)						**Source: IRF1660-01**					
Chloride	242	10	5.0	mg/l	50.0	195	93	80-120	1	20	
Nitrate-NO3	102	10	5.0	mg/l	50.0	52.4	99	80-120	1	20	
Nitrite-NO2	52.0	10	6.0	mg/l	50.0	1.66	101	80-120	1	20	
Sulfate	491	10	4.0	mg/l	100	402	89	80-120	2	20	*MHA*

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Received: 06/18/08

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8F19056 Extracted: 06/19/08											
Blank Analyzed: 06/19/2008 (8F19056-BLK1)											
Alkalinity as CaCO3	ND	2.0	2.0	mg/l							
Duplicate Analyzed: 06/19/2008 (8F19056-DUP1)						**Source: IRF1642-01**					
Alkalinity as CaCO3	116	2.0	2.0	mg/l		114			2	20	
Reference Analyzed: 06/19/2008 (8F19056-SRM1)											
Alkalinity as CaCO3	344	2.0	2.0	mg/l	339		101	90-110			
Batch: 8F23007 Extracted: 06/23/08											
Blank Analyzed: 06/23/2008 (8F23007-BLK1)											
Total Dissolved Solids	ND	10	10	mg/l							
Total Dissolved Solids	ND	10	10	mg/l							
LCS Analyzed: 06/23/2008 (8F23007-BS1)											
Total Dissolved Solids	1000	10	10	mg/l	1000		100	90-110			
Total Dissolved Solids	1000	10	10	mg/l	1000		100	90-110			
Duplicate Analyzed: 06/23/2008 (8F23007-DUP1)						**Source: IRF1635-02**					
Total Dissolved Solids	158	10	10	mg/l		160			1	10	
Total Dissolved Solids	158	10	10	mg/l		160			1	10	

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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: 8F19093 Extracted: 06/19/08											
Blank Analyzed: 06/19/2008 (8F19093-BLK1)											
Total Organic Carbon	ND	1.0	0.50	mg/l							
LCS Analyzed: 06/19/2008 (8F19093-BS1)											
Total Organic Carbon	9.28	1.0	0.50	mg/l	10.0		93	90-110			
Matrix Spike Analyzed: 06/19/2008 (8F19093-MS1)						Source: IRF1437-03					
Total Organic Carbon	7.36	1.0	0.50	mg/l	5.00	1.55	116	80-120			
Matrix Spike Dup Analyzed: 06/19/2008 (8F19093-MSD1)						Source: IRF1437-03					
Total Organic Carbon	7.37	1.0	0.50	mg/l	5.00	1.55	116	80-120	0	20	

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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: 06/24/08											
Blank Analyzed: 06/24/2008 (bvcA negative)						Source: vcrA negative					
bvcA	ND	50	N/a	ne copies/L groun				-			
Matrix spike Analyzed: 06/24/2008 (bvcA positive)						Source: vcrA positive					
bvcA	Positive	50	N/a	ne copies/L groun				-			
Blank Analyzed: 06/24/2008 (tceA negative)						Source: tceA negative					
tceA	ND	50	N/a	ne copies/L groun				-			
Matrix spike Analyzed: 06/24/2008 (tceA positive)						Source: tceA positive					
tceA	Positive	50	N/a	ne copies/L groun				-			
Blank Analyzed: 06/24/2008 (vcrA negative)						Source: vcrA negative					
vcrA	ND	50	N/a	ne copies/L groun				-			
Matrix spike Analyzed: 06/24/2008 (vcrA positive)						Source: vcrA positive					
vcrA	Positive	50	N/a	ne copies/L groun				-			

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Project ID: Boeing C-6 Torrance (02/26/08)
1155.006
Report Number: IRF1567

Sampled: 06/18/08
Received: 06/18/08

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: 06/23/08											
Blank Analyzed: 06/23/2008 ((-) PCR)						**Source: (-) PCR**					
16s rRNA	ND	NA	N/A	NONE				-			
Matrix spike Analyzed: 06/23/2008 ((+) PCR)						**Source: (+) PCR**					
16s rRNA	Positive	NA	N/A	NONE				-			

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1155.006
Report Number: IRF1567

Sampled: 06/18/08
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METHOD BLANK/QC DATA

Volatile Fatty Acids by Ion Chromatography

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: M080626010 Extracted: 06/26/08											
LCS Analyzed: 07/07/2008 (M080626010-LCS)					**Source:**						
Acetic Acid	1.8	0.07	0.04	mg/L	2		90	70-130		20	
Butyric Acid	1.8	0.07	0.06	mg/L	2		90	70-130		20	
Hexanoic Acid	1.8	0.1	0.08	mg/L	2		90	70-130		20	
i-Hexanoic Acid	1.9	0.1	0.08	mg/L	2		95	70-130		20	
i-Pentanoic Acid	1.9	0.07	0.07	mg/L	2		95	70-130		20	
Lactic Acid and HIBA	1.7	0.1	0.07	mg/L	2		85	70-130		20	
Pentanoic Acid	1.8	0.07	0.07	mg/L	2		90	70-130		20	
Propionic Acid	1.7	0.07	0.05	mg/L	2		85	70-130		20	
Pyruvic Acid	1.7	0.07	0.07	mg/L	2		85	70-130		20	
Blank Analyzed: 07/07/2008 (M080626010-MB)					**Source:**						
Acetic Acid	ND	0.07	0.04	mg/L				70-130		0	*U*
Butyric Acid	ND	0.07	0.06	mg/L				70-130		0	*U*
Hexanoic Acid	ND	0.1	0.08	mg/L				70-130		0	*U*
i-Hexanoic Acid	ND	0.1	0.08	mg/L				70-130		0	*U*
i-Pentanoic Acid	ND	0.07	0.07	mg/L				70-130		0	*U*
Lactic Acid and HIBA	ND	0.1	0.07	mg/L				70-130		0	*U*
Pentanoic Acid	ND	0.07	0.07	mg/L				70-130		0	*U*
Propionic Acid	ND	0.07	0.05	mg/L				70-130		0	*U*
Pyruvic Acid	ND	0.07	0.07	mg/L				70-130		0	*U*
Matrix Spike Analyzed: 07/04/2008 (M080626010-MS)					**Source: IRF1567-01**						
Hexanoic Acid	3.1	0.1	0.08	mg/L	2	0.18	146	70-130		30	*M*
i-Hexanoic Acid	2.7	0.1	0.08	mg/L	2	0.66	102	70-130		30	
i-Pentanoic Acid	10	0.07	0.07	mg/L	2	9.5	25	70-130		30	*M*
Pentanoic Acid	3.8	0.07	0.07	mg/L	2	1.9	95	70-130		30	
Pyruvic Acid	5.4	0.07	0.07	mg/L	2	4.2	60	70-130		30	*M*

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BOE-C6-0188990

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Project ID: Boeing C-6 Torrance (02/26/08)
1155.006
Report Number: IRF1567

Sampled: 06/18/08
Received: 06/18/08

METHOD BLANK/QC DATA

Volatile Fatty Acids by Ion Chromatography

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: M080626010 Extracted: 06/26/08											
Matrix Spike Dup Analyzed: 07/04/2008 (M080626010-MSD)						**Source: IRF1567-01**					
Hexanoic Acid	2.8	0.1	0.08	mg/L	2	0.18	131	70-130	10	40	*M*
i-Hexanoic Acid	2.6	0.1	0.08	mg/L	2	0.66	97	70-130	4	40	
i-Pentanoic Acid	11	0.07	0.07	mg/L	2	9.5	75	70-130	10	40	*M*
Pentanoic Acid	3.9	0.07	0.07	mg/L	2	1.9	100	70-130	3	40	
Pyruvic Acid	5.7	0.07	0.07	mg/L	2	4.2	75	70-130	5	40	*M*
Batch: M080709033 Extracted: 07/07/08											
LCS Analyzed: 07/07/2008 (M080709033-LCS)						**Source:**					
Butyric Acid	2.1	0.07	0.06	mg/L	2		105	70-130		20	
i-Pentanoic Acid	2.2	0.07	0.07	mg/L	2		110	70-130		20	
Lactic Acid and HIBA	2.4	0.1	0.07	mg/L	2		120	70-130		20	
Propionic Acid	2.2	0.07	0.05	mg/L	2		110	70-130		20	
Pyruvic Acid	2.1	0.07	0.07	mg/L	2		105	70-130		20	
Blank Analyzed: 07/07/2008 (M080709033-MB)						**Source:**					
Butyric Acid	ND	0.07	0.06	mg/L				70-130		0	*U*
i-Pentanoic Acid	ND	0.07	0.07	mg/L				70-130		0	*U*
Lactic Acid and HIBA	ND	0.1	0.07	mg/L				70-130		0	*U*
Propionic Acid	ND	0.07	0.05	mg/L				70-130		0	*U*
Pyruvic Acid	ND	0.07	0.07	mg/L				70-130		0	*U*
Batch: M080709036 Extracted: 07/07/08											
LCS Analyzed: 07/07/2008 (M080709036-LCS)						**Source:**					
Acetic Acid	2.3	0.07	0.04	mg/L	2		115	70-130		20	
Lactic Acid and HIBA	2.4	0.1	0.07	mg/L	2		120	70-130		20	
Propionic Acid	2.2	0.07	0.05	mg/L	2		110	70-130		20	

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METHOD BLANK/QC DATA

Volatile Fatty Acids by Ion Chromatography

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: M080709036 Extracted: 07/07/08											
Blank Analyzed: 07/07/2008 (M080709036-MB)						**Source:**					
Acetic Acid	ND	0.07	0.04	mg/L				70-130		0	*U*
Lactic Acid and HIBA	ND	0.1	0.07	mg/L				70-130		0	*U*
Propionic Acid	ND	0.07	0.05	mg/L				70-130		0	*U*

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BOE-C6-0188991

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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: 080623G28A Extracted: 06/23/08											
LCS Dup Analyzed: 06/23/2008 (080623G28ABD)					**Source: 080623G28ABS**						
Methane	565	1.0	0.39	ug/L	654	0	86	70-130	5	30	
Ethane	1078	1.0	0.50	ug/L	1227	0	88	70-130	4	30	
Ethylene	939	1.0	0.33	ug/L	1145	0	82	70-130	4	30	
LCS Analyzed: 06/23/2008 (080623G28ABS)					**Source:**						
Methane	593	1.0	0.39	ug/L	654	0	91	70-130			
Ethane	1126	1.0	0.50	ug/L	1227	0	92	70-130			
Ethylene	982	1.0	0.33	ug/L	1145	0	86	70-130			
Blank Analyzed: 06/23/2008 (080623G28ALB)					**Source:**						
Methane	0.53	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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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 below RL and equal to or above MDL
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).
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).
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

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-C6-0188992

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: IRF1567

Sampled: 06/18/08
Received: 06/18/08

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
SM2540C	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: IRF1567-01, IRF1567-02, IRF1567-04, IRF1567-05, IRF1567-06

Idaho State University - Dept. of Bio Sci - MRCF
650 Memorial Drive - Pocatello, ID 83209
Analysis Performed: DHC Assay
Samples: IRF1567-01, IRF1567-02, IRF1567-04, IRF1567-05, IRF1567-06

ISU Molecular
Method Performed: qPCR TaqMan assay
Samples: IRF1567-01, IRF1567-02, IRF1567-04, IRF1567-05, IRF1567-06

Method Performed: Universal Bacterial PCR
Samples: IRF1567-01, IRF1567-02, IRF1567-04, IRF1567-05, IRF1567-06

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 (02/26/08)
1155.006
Report Number: IRF1567

Sampled: 06/18/08
Received: 06/18/08

Microseeps-SUB
220 William Pitt Way - Pittsburgh, PA 15238

Method Performed: AM23G Acetic Acid
Samples: IRF1567-01, IRF1567-02, IRF1567-04, IRF1567-05, IRF1567-06

Method Performed: AM23G Butyric Acid
Samples: IRF1567-01, IRF1567-02, IRF1567-04, IRF1567-05, IRF1567-06

Method Performed: AM23G Hexanoic Acid
Samples: IRF1567-01, IRF1567-02, IRF1567-04, IRF1567-05, IRF1567-06

Method Performed: AM23G i-Hexanoic Acid
Samples: IRF1567-01, IRF1567-02, IRF1567-04, IRF1567-05, IRF1567-06

Method Performed: AM23G i-Pentanoic Acid
Samples: IRF1567-01, IRF1567-02, IRF1567-04, IRF1567-05, IRF1567-06

Method Performed: AM23G Lactic Acid and HIBA
Samples: IRF1567-01, IRF1567-02, IRF1567-04, IRF1567-05, IRF1567-06

Method Performed: AM23G Pentanoic Acid
Samples: IRF1567-01, IRF1567-02, IRF1567-04, IRF1567-05, IRF1567-06

Method Performed: AM23G Propionic Acid
Samples: IRF1567-01, IRF1567-02, IRF1567-04, IRF1567-05, IRF1567-06

Method Performed: AM23G Pyruvic Acid
Samples: IRF1567-01, IRF1567-02, IRF1567-04, IRF1567-05, IRF1567-06

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-C6-0188993

BOE-C6-018994

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

Sheet 1 of 1 — Boeing CoC No. AVO20080618B

CHAIN OF CUSTODY RECORD

Project Information:

Site Name	Boeing Former C-6 Facility, Monthly WDR Sampling, June 2008
Site Address	Los Angeles, CA
Project No.	1155.006
Project Manager	Michael Rendina
Sampled By	Brian Barsumian
Turn-Around-Time	Standard TAT

Analyses

Sample Identification	Sample Date	Sample Time	Matrix	No. of Cntnrs.	Lab I.D. Number	VOCs EPA 8260B	TOC EPA 9060 Modified	Volatile Fatty Acids IC Method 8M23G (Microseeps)	Dissolved Hydrocarbon Gases (DHGs) Methane, Ethane, Ethene - RSK 175	Alkalinity EPA 310.1	Anions (NO3, NO2, Cl, SO4) EPA 300.3	DHC PCR (NorthWind) 24 HR HTI	Total Dissolved Solids, EPA 160	48HR HT for NO_3
EWB002_WG20080618_01	6/18/08	0804	Water	12		X	X	X	X	X	X	X		
AW0055UB_WG20080618_01		0905	Water	12		X	X	X	X	X	X	X	X	
AW0055UB_WG20080618_02		0905	Water	3		X								
AW0075UB_WG20080618_01		1140	Water	12		X	X	X	X	X	X	X		
AW0077UB_WG20080618_01		1010	Water	12		X	X	X	X	X	X	X		
AW0076UB_WG20080618_01		1310	Water	12		X	X	X	X	X	X	X		
~~TB_AV20080618_0801~~			Water	3		X								
TB_AVO20080618_01														

Comments: Please forward VFA & qPCR analyses to identified laboratories ASAP.

AP 1605 6/18/08

Relinquished by	Company	Received by	Company
Printed Name: Brian Barsumian Date: 6/18/08	Avocet Environmental, Inc.	Printed Name: Venice Padilla Date: 6/18/08	TA Irvine
Signature: Brian Barsumian Time: 1405		Signature: Time: 1405	
Printed Name: Venice Padilla Date: 6/18/08		Printed Name: Matt Crosby Date: 6-18-08	
Signature: Time: 1445		Signature: Time: 1425	
Printed Name: Date:		Printed Name: Date:	
Signature: Time:		Signature: Time:	

Sample Receipt
Total Containers
Temperature °C 5.0/5.1 °F
COC Seal (Y/N/NA)

Billing Information
Bill To: Michael Rendina, P.G.
AVOCET ENVIRONMENTAL, INC.
16 Technology Dive, Suite 154
Irvine, CA 92618-2327

Special Instructions
DHC PCR Analyses require overnight delivery to NorthWind in Pittsburgh, PA
Primary DHG analyses will continue to be analyed by ATL.
Please bill to Avocet. Please report electronically in accordance with Boeing standards. If any questions, please call Mike Rendina @ (949) 296 0977 Ext.103

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

1 KF1561

Sheet 1 of 1 — Boeing CoC No. AVO20080618B

CHAIN OF CUSTODY RECORD

Project Information:
Site Name: Boeing Former C-6 Facility, Monthly WDR Sampling, June 2008
Site Address: Los Angeles, CA
Project No.: 1155.006
Project Manager: Michael Rendina
Sampled By: Brian Barsumian
Turn-Around-Time: Standard TAT

Analyses

Sample Identification	Sample Date	Sample Time	Matrix	No. of Cntnrs.	Lab I.D. Number	VOCs EPA 8260B	TOC EPA 9060 Modified	Volatile Fatty Acids IC Method 8M23G (Microseeps)	Dissolved Hydrocarbon Gases (DHGs) Methane, Ethane, Ethene - RSK 175	Alkalinity EPA 310.1	Anions (NO3, NO2, Cl, SO4) EPA 300.3	DHC PCR (NorthWind) 24 HR HTI
EWB002_WG20080618_01	6/18/08	0804	Water	12		X	X	X	X	X	X	X
AW0055UB_WG20080618_01		0905	Water	12		X	X	X	X	X	X	X
AW0055UB_WG20080618_02		0905	Water	3		X						
AW0075UB_WG20080618_01		1140	Water	12		X	X	X	X	X	X	X
AW0077UB_WG20080618_01		1010	Water	12		X	X	X	X	X	X	X
AW0076UB_WG20080618_01		1310	Water	12		X	X	X	X	X	X	X
~~TB_AV20080618_0801~~			Water	3		X						
TB_AVO20080618_01												

48HR HT for NO_3
Comments: Please forward VFA & qPCR analyses to identified laboratories ASAP.

AP 1605 6/18/08

Relinquished by / Company / Received by / Company
Printed Name: Brian Barsumian Date: 6/18/08 — Avocet Environmental, Inc. — Printed Name: Venice Padilla Date: 6/18/08 — TA Irvine
Signature: Brian Barsumian Time: 1405 — Signature: Time: 1405
Printed Name: Venice Padilla Date: 6/18/08 — Printed Name: Matt Crosby Date: 6-18-08
Signature: Time: 1445 — Signature: Time: 1425
Printed Name: Date: — Printed Name: Date:
Signature: Time: — Signature: Time:

Sample Receipt
Total Containers
Temperature °C 5.0/5.1 °F
COC Seal (Y/N/NA)

Billing Information
Bill To: Michael Rendina, P.G.
AVOCET ENVIRONMENTAL, INC.
16 Technology Dive, Suite 154
Irvine, CA 92618-2327

Special Instructions
DHC PCR Analyses require overnight delivery to NorthWind in Pittsburgh, PA
Primary DHG analyses will continue to be analyed by ATL.
Please bill to Avocet. Please report electronically in accordance with Boeing standards. If any questions, please call Mike Rendina @ (949) 296 0977 Ext.103

#102

AirTECHNOLOGY Laboratories, Inc.

July 3, 2008

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: IRF1567
Lab Number: A8061905-01/05

Enclosed are results for sample(s) received 6/19/08 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
IRF1567

A8061905-01/05

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: 6 °C Ice: Y / N

Analysis	Units	Due	Expires	Comments
01 **Sample ID: IRF1567-01**	Water		Sampled: 06/18/08 08:04	
~~CO2-RSK 175 OUT~~		06/30/08	07/02/08 08:04	sub=ATL, Element EDD, Boeing J&B flags
Diss. Gasses-OUT		06/30/08	07/02/08 08:04	sub=ATL;RL=1-C2H4,C2H6,CH4,Elmnt EDD,Boeing,Jflags
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)		
02 **Sample ID: IRF1567-02**	Water		Sampled: 06/18/08 09:05	
~~CO2-RSK 175 OUT~~		06/30/08	07/02/08 09:05	sub=ATL, Element EDD, Boeing J&B flags
Diss. Gasses-OUT		06/30/08	07/02/08 09:05	sub=ATL;RL=1-C2H4,C2H6,CH4,Elmnt EDD,Boeing,Jflags
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)		
03 **Sample ID: IRF1567-04**	Water		Sampled: 06/18/08 11:40	
~~CO2-RSK 175 OUT~~		06/30/08	07/02/08 11:40	sub=ATL, Element EDD, Boeing J&B flags
Diss. Gasses-OUT		06/30/08	07/02/08 11:40	sub=ATL;RL=1-C2H4,C2H6,CH4,Elmnt EDD,Boeing,Jflags
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)		
04 **Sample ID: IRF1567-05**	Water		Sampled: 06/18/08 10:10	
~~CO2-RSK 175 OUT~~		06/30/08	07/02/08 10:10	sub=ATL, Element EDD, Boeing J&B flags
Diss. Gasses-OUT		06/30/08	07/02/08 10:10	sub=ATL;RL=1-C2H4,C2H6,CH4,Elmnt EDD,Boeing,Jflags
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
		6/19/08	6:45
6/19/08	8:03		6/19/08 8:03

BOE-C6-0188995

SUBCONTRACT ORDER

TestAmerica Irvine

IRF1567

Analysis	Units	Due	Expires	Comments
Sample ID: IRF1567-06 05	**Water**		Sampled: **06/18/08 13:10**	
~~CO2-RSK 175 OUT~~		06/30/08	07/02/08 13:10	sub=ATL, Element EDD, Boeing J&B flags
Diss. Gasses-OUT		06/30/08	07/02/08 13:10	sub=ATL;RL=1-C2H4,C2H6,CH4,Elmnt EDD,Boeing,Jflags
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)		

Client: TestAmerica
Attn: Trupti Mistry

Client's Project: IRF1567
Date Received: 6/19/2008
Matrix: Water
Units: ug/L

Dissolved Gases by EPA Procedure RSKSOP-175

Lab No.:			A8061905-01		A8061905-02		A8061905-03		A8061905-04		A8061905-05	
Client Sample I.D.:			IRF1567-01		IRF1567-02		IRF1567-04		IRF1567-05		IRF1567-06	
Date Sampled:			6/18/2008		6/18/2008		6/18/2008		6/18/2008		6/18/2008	
Date Analyzed:			6/23/2008		6/23/2008		6/23/2008		6/23/2008		6/23/2008	
Analyst Initials:			DT		DT		DT		DT		DT	
Data File:			23jun020		23jun021		23jun022		23jun023		23jun024	
QC Batch:			080623GC8A2		080623GC8A2		080623GC8A2		080623GC8A2		080623GC8A2	
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	14,000	1.0	1.7	1.0	11,000	1.0	13,000	1.0	4,200
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	40	1.0	1.9	1.0	14	1.0	89	1.0	42

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

Reviewed/Approved By: Mark J. Johnson
Operations Manager

Date: 7-3-08

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

BOE-C6-0188996

QC Batch No.: 080623GC8A1
Matrix: Water
Units: ug/L

QC for Dissolved Gases by EPA Procedure RSKSOP-175

Lab No.:			Method Blank		LCS		LCSD			
Date Analyzed:			06/23/08		06/23/08		06/23/08			
Analyst Initials:			DT		DT		DT			
Datafile:			23jun012		23jun010		23jun011			
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	0.53 J	91	70-130%	86	70-130%	4.7	<30
Ethane	1.0	0.50	1.0	ND	92	70-130%	88	70-130%	4.4	<30
Ethylene	1.0	0.33	1.0	ND	86	70-130%	82	70-130%	4.4	<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: _____ Date: 7-3-08
Mark J. Johnson
Operations Manager

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

P0806295

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 11
Lab Proj #: P0806295
Report Date: 07/09/08
Client Proj Name: IRF1567
Client Proj #: IRF1567

Laboratory Results

Total pages in data package: 78

Lab Sample #	Client Sample ID
P0806295-01	IRF1567-01
P0806295-02	IRF1567-02
P0806295-03	IRF1567-04
P0806295-04	IRF1567-05
P0806295-05	IRF1567-06

Microseeps test results meet all the requirements of the NELAC standards or provide reasons and/or justification if they do not.

Approved By: _____ *Date:* 7-9-08

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.

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

BOE-C6-0188997

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

Page: Page 2 of 11
Lab Proj #: P0806295
Report Date: 07/09/08
Client Proj Name: IRF1567
Client Proj #: IRF1567

Case Narrative: The samples for volatile fatty acid determinations were prepared on 6/26/2008. The percent recoveries for the batch MS/MSD analyses could only be calculated for pyruvic, i-pentanoic, pentanoic, i-hexanoic, and hexanoic acids because of the sample matrix. The percent recoveries for the pyruvic, i-pentanoic and hexanoic acids were outside of control limits for the MS analyses, while the percent recovery for hexanoic acid was outside of control limits for the MSD. 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 #: P0806295
Report Date: 07/09/08
Client Proj Name: IRF1567
Client Proj #: IRF1567

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
IRF1567-01	Water	P0806295-01	18 Jun. 08 8:04	19 Jun. 08 10:36

Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	By
SemiVolatiles							
N Acetic Acid		160.00	7.00	mg/L	AM23G	7/8/08	jb
N Butyric Acid		2.80	0.7	mg/L	AM23G	7/7/08	jb
N Hexanoic Acid	M	0.18	0.1	mg/L	AM23G	7/4/08	jb
N i-Hexanoic Acid		0.66	0.1	mg/L	AM23G	7/4/08	jb
N i-Pentanoic Acid	M	9.50	0.07	mg/L	AM23G	7/4/08	jb
N Lactic Acid and HIBA		1.60	1	mg/L	AM23G	7/7/08	jb
N Pentanoic Acid		1.90	0.07	mg/L	AM23G	7/4/08	jb
N Propionic Acid		65.00	0.7	mg/L	AM23G	7/7/08	jb
N Pyruvic Acid	M	4.20	0.07	mg/L	AM23G	7/4/08	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-C6-0188998

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

Page: Page 4 of 11
Lab Proj #: P0806295
Report Date: 07/09/08
Client Proj Name: IRF1567
Client Proj #: IRF1567

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
IRF1567-02	Water	P0806295-02	18 Jun. 08 9:05	19 Jun. 08 10:36

Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	By
SemiVolatiles							
N Acetic Acid	M	1.10	0.07	mg/L	AM23G	7/8/08	jb
N Butyric Acid	UM	< 0.07	0.07	mg/L	AM23G	7/8/08	jb
N Hexanoic Acid	UM	< 0.10	0.1	mg/L	AM23G	7/8/08	jb
N i-Hexanoic Acid	U	< 0.10	0.1	mg/L	AM23G	7/8/08	jb
N i-Pentanoic Acid	UM	< 0.07	0.07	mg/L	AM23G	7/8/08	jb
N Lactic Acid and HIBA	M	0.14	0.1	mg/L	AM23G	7/8/08	jb
N Pentanoic Acid	U	< 0.07	0.07	mg/L	AM23G	7/8/08	jb
N Propionic Acid	UM	< 0.07	0.07	mg/L	AM23G	7/8/08	jb
N Pyruvic Acid	UM	< 0.07	0.07	mg/L	AM23G	7/8/08	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 11
Lab Proj #: P0806295
Report Date: 07/09/08
Client Proj Name: IRF1567
Client Proj #: IRF1567

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
IRF1567-04	Water	P0806295-03	18 Jun. 08 11:40	19 Jun. 08 10:36

Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	By
SemiVolatiles							
N Acetic Acid		870.00	7.00	mg/L	AM23G	7/8/08	jb
N Butyric Acid		11.00	0.7	mg/L	AM23G	7/8/08	jb
N Hexanoic Acid	M	1.10	0.1	mg/L	AM23G	7/4/08	jb
N i-Hexanoic Acid		0.71	0.1	mg/L	AM23G	7/4/08	jb
N i-Pentanoic Acid		7.60	0.7	mg/L	AM23G	7/8/08	jb
N Lactic Acid and HIBA		28.00	10.00	mg/L	AM23G	7/8/08	jb
N Pentanoic Acid		5.70	0.07	mg/L	AM23G	7/4/08	jb
N Propionic Acid		220.00	7.00	mg/L	AM23G	7/8/08	jb
N Pyruvic Acid		5.70	0.7	mg/L	AM23G	7/8/08	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-C6-0188999

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

Page: Page 6 of 11
Lab Proj #: P0806295
Report Date: 07/09/08
Client Proj Name: IRF1567
Client Proj #: IRF1567

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
IRF1567-05	Water	P0806295-04	18 Jun. 08 10:10	19 Jun. 08 10:36

Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	By
SemiVolatiles							
N Acetic Acid		370.00	7.00	mg/L	AM23G	7/8/08	jb
N Butyric Acid		13.00	0.7	mg/L	AM23G	7/8/08	jb
N Hexanoic Acid	M	0.59	0.1	mg/L	AM23G	7/4/08	jb
N i-Hexanoic Acid		0.61	0.1	mg/L	AM23G	7/4/08	jb
N i-Pentanoic Acid		7.00	0.7	mg/L	AM23G	7/8/08	jb
N Lactic Acid and HIBA		14.00	10.00	mg/L	AM23G	7/8/08	jb
N Pentanoic Acid		3.40	0.07	mg/L	AM23G	7/4/08	jb
N Propionic Acid		71.00	0.7	mg/L	AM23G	7/8/08	jb
N Pyruvic Acid		5.10	0.7	mg/L	AM23G	7/8/08	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 11
Lab Proj #: P0806295
Report Date: 07/09/08
Client Proj Name: IRF1567
Client Proj #: IRF1567

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
IRF1567-06	Water	P0806295-05	18 Jun. 08 13:10	19 Jun. 08 10:36

Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	By
SemiVolatiles							
N Acetic Acid		440.00	7.00	mg/L	AM23G	7/8/08	jb
N Butyric Acid		29.00	0.7	mg/L	AM23G	7/8/08	jb
N Hexanoic Acid	M	3.90	0.1	mg/L	AM23G	7/4/08	jb
N i-Hexanoic Acid		0.69	0.1	mg/L	AM23G	7/4/08	jb
N i-Pentanoic Acid		11.00	0.7	mg/L	AM23G	7/8/08	jb
N Lactic Acid and HIBA		12.00	10.00	mg/L	AM23G	7/8/08	jb
N Pentanoic Acid		6.10	0.07	mg/L	AM23G	7/4/08	jb
N Propionic Acid		110.00	7.00	mg/L	AM23G	7/8/08	jb
N Pyruvic Acid		4.50	0.7	mg/L	AM23G	7/8/08	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-C6-0189000

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

Page: Page 8 of 11
Lab Proj #: P0806295
Report Date: 07/09/08
Client Proj Name: IRF1567
Client Proj #: IRF1567

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

M080626010-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		0.1		- 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		0.1		- NA
Hexanoic Acid	< 0.10	mg/L		0.1		- NA

M080626010-LCS

	Result		TrueSpikeConc.	%Recovery	Ctl Limits
Acetic Acid	1.80	mg/L	2.00	90.00	70 - 130
Propionic Acid	1.70	mg/L	2.00	85.00	70 - 130
Butyric Acid	1.80	mg/L	2.00	90.00	70 - 130
Lactic Acid and HIBA	1.70	mg/L	2.00	85.00	70 - 130
Pyruvic Acid	1.70	mg/L	2.00	85.00	70 - 130
i-Pentanoic Acid	1.90	mg/L	2.00	95.00	70 - 130
Pentanoic Acid	1.80	mg/L	2.00	90.00	70 - 130
i-Hexanoic Acid	1.90	mg/L	2.00	95.00	70 - 130
Hexanoic Acid	1.80	mg/L	2.00	90.00	70 - 130

P0806295-01A-MS

	Result		TrueSpikeConc.	%Recovery	Ctl Limits
Pyruvic Acid	5.40	mg/L	2.00	60.00	70 - 130
i-Pentanoic Acid	10.00	mg/L	2.00	25.00	70 - 130
Pentanoic Acid	3.80	mg/L	2.00	95.00	70 - 130
i-Hexanoic Acid	2.70	mg/L	2.00	102.00	70 - 130
Hexanoic Acid	3.10	mg/L	2.00	146.00	70 - 130

P0806295-01A-MSD

	Result		TrueSpikeConc.	%Recovery	Ctl Limits	RPD	RPD Ctl 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 11
Lab Proj #: P0806295
Report Date: 07/09/08
Client Proj Name: IRF1567
Client Proj #: IRF1567

P0806295-01A-MSD

	Result		TrueSpikeConc.	%Recovery	Ctl Limits	RPD	RPD Ctl Limits
Pyruvic Acid	5.70	mg/L	2.00	75.00	70 - 130	5.41	0 - 30
i-Pentanoic Acid	11.00	mg/L	2.00	75.00	70 - 130	9.52	0 - 30
Pentanoic Acid	3.90	mg/L	2.00	100.00	70 - 130	2.60	0 - 30
i-Hexanoic Acid	2.60	mg/L	2.00	97.00	70 - 130	3.77	0 - 30
Hexanoic Acid	2.80	mg/L	2.00	131.00	70 - 130	10.17	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-C6-0189001

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

Page: Page 10 of 11
Lab Proj #: P0806295
Report Date: 07/09/08
Client Proj Name: IRF1567
Client Proj #: IRF1567

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

M080709033-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
Hexanoic Acid	< 0.10	mg/L		0.10		- NA

M080709033-LCS

	Result		TrueSpikeConc.		%Recovery	Ctl Limits
Acetic Acid	2.30	mg/L	2.00		115.00	70 - 130
Propionic Acid	2.20	mg/L	2.00		110.00	70 - 130
Butyric Acid	2.10	mg/L	2.00		105.00	70 - 130
Lactic Acid and HIBA	2.40	mg/L	2.00		120.00	70 - 130
Pyruvic Acid	2.10	mg/L	2.00		105.00	70 - 130
i-Pentanoic Acid	2.20	mg/L	2.00		110.00	70 - 130
Pentanoic Acid	2.10	mg/L	2.00		105.00	70 - 130
Hexanoic Acid	2.00	mg/L	2.00		100.00	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 #: P0806295
Report Date: 07/09/08
Client Proj Name: IRF1567
Client Proj #: IRF1567

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

M080709036-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

M080709036-LCS

	Result		TrueSpikeConc.		%Recovery	Ctl Limits
Acetic Acid	2.30	mg/L	2.00		115.00	70 - 130
Propionic Acid	2.20	mg/L	2.00		110.00	70 - 130
Butyric Acid	2.10	mg/L	2.00		105.00	70 - 130
Lactic Acid and HIBA	2.40	mg/L	2.00		120.00	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-C6-0189002

P0806295

Chain of Custody Documents

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P0806295

SUBCONTRACT ORDER

TestAmerica Irvine

IRF1567

P0806295

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: IRF1567-01	**Water**		**Sampled: 06/18/08 08:04**	
VFA-Microseeps OUT		07/02/08	06/25/08 08:04	Microseeps; IC; J&Bflags;TestAmerica excel EDD
Containers Supplied:				
40 mL Amber VOA Vial (G)	40 mL Amber VOA Vial (H)			
Sample ID: IRF1567-02	**Water**		**Sampled: 06/18/08 09:05**	
VFA-Microseeps OUT		07/02/08	06/25/08 09:05	Microseeps; IC; J&Bflags;TestAmerica excel EDD
Containers Supplied:				
40 mL Amber VOA Vial (G)	40 mL Amber VOA Vial (H)			
Sample ID: IRF1567-04	**Water**		**Sampled: 06/18/08 11:40**	
VFA-Microseeps OUT		07/02/08	06/25/08 11:40	Microseeps; IC; J&Bflags;TestAmerica excel EDD
Containers Supplied:				
40 mL Amber VOA Vial (G)	40 mL Amber VOA Vial (H)			
Sample ID: IRF1567-05	**Water**		**Sampled: 06/18/08 10:10**	
VFA-Microseeps OUT		07/02/08	06/25/08 10:10	Microseeps; IC; J&Bflags;TestAmerica excel EDD
Containers Supplied:				
40 mL Amber VOA Vial (G)	40 mL Amber VOA Vial (H)			
Sample ID: IRF1567-06	**Water**		**Sampled: 06/18/08 13:10**	
VFA-Microseeps OUT		07/02/08	06/25/08 13:10	Microseeps; IC; J&Bflags;TestAmerica excel EDD
Containers Supplied:				
40 mL Amber VOA Vial (G)	40 mL Amber VOA Vial (H)			

Released By	Date/Time	Received By	Date/Time
	6/18/08 17:00	FedEx	6/18/08 17:00
			6/19
Released By	Date/Time	Received By	Date/Time

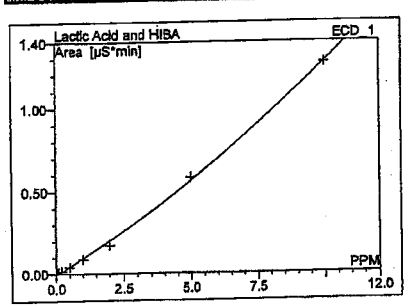
Page 1 of 1

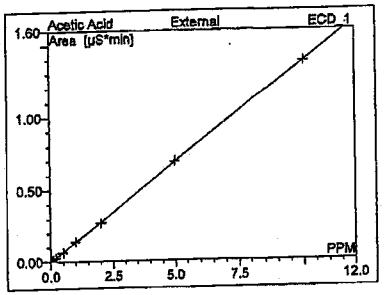
BOE-C6-0189003

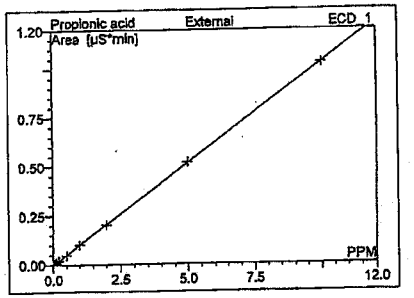
Volatile Fatty Acid Data

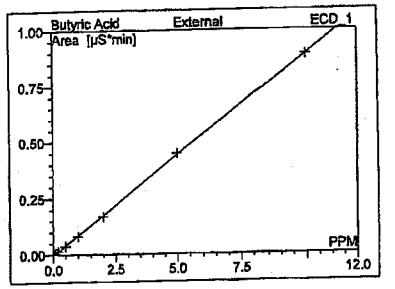
Operator:chemware Timebase:DX-500 Sequence:LLVFA 070208

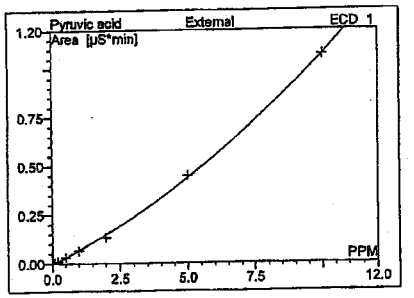
Calibration Batch Report

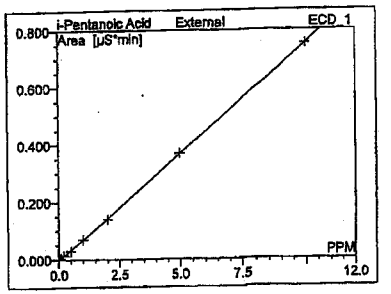








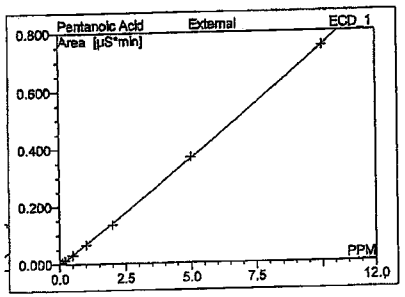


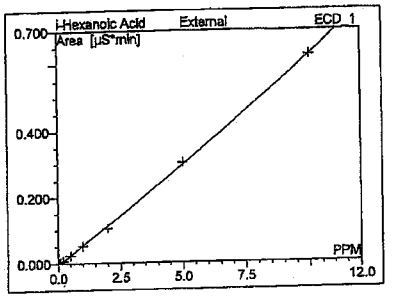


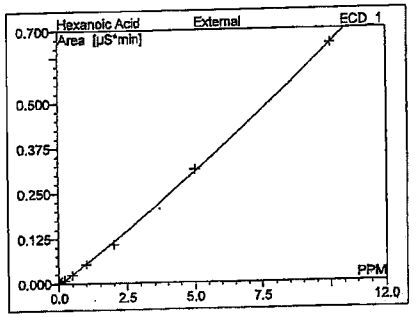
CATION_report/Calibration(Batch)

PeakNet 6 (r) Dionex 2001
Version 6.60 Build 1428

BOE-C6-0189004







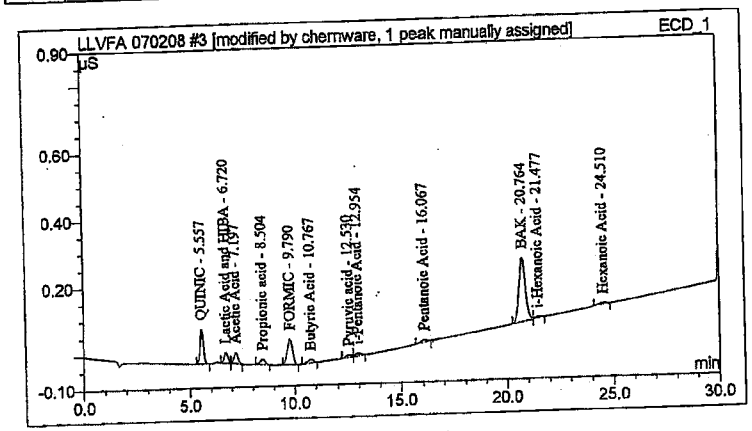
Peak Name	Cal.Mode	Cal.Type	Slope	#Points	Rel.Std.Dev. %	R-Square %
QUINIC	Total	QOff	0.000	8	n.a.	n.a.
Lactic Acid and HIBA	Total	QOff	0.100	8	6.286	99.894
Acetic Acid	Total	QOff	0.138	8	1.049	99.996
Propionic acid	Total	QOff	0.105	8	0.804	99.998
FORMIC	Total	QOff	0.000	8	n.a.	n.a.
Butyric Acid	Total	QOff	0.089	8	2.036	99.987
Pyruvic acid	Total	QOff	0.069	8	4.055	99.959
i-Pentanoic Acid	Total	QOff	0.072	8	1.486	99.993
Pentanoic Acid	Total	QOff	0.072	8	2.232	99.985
BAK	Total	QOff	0.000	8	n.a.	n.a.
i-Hexanoic Acid	Total	QOff	0.058	8	3.284	99.969
Hexanoic Acid	Total	QOff	0.058	8	3.176	99.971

MICROSEEPS

Sample Analysis Report

Sample Name:	LLVFA ICAL 1	**Sequence No:**	3
Sequence Name:	LLVFA 070208	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	7/2/2008 11:27 AM	**Analytical Method:**	AM23G
System Operator:	chemware	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	5.557	0.020	0.102	BMB	n.a.
2	Lactic Acid and HIBA	6.720	0.006	0.030	BMB	0.1397
3	Acetic Acid	7.197	0.007	0.032	BMB	0.0735
4	Propionic acid	8.504	0.004	0.015	BMB	0.0644
5	FORMIC	9.790	0.021	0.075	BMB	n.a.
6	Butyric Acid	10.767	0.003	0.010	BMB*	0.0950
7	Pyruvic acid	12.530	0.002	0.008	BM *^	0.1353
8	i-Pentanoic Acid	12.954	0.003	0.008	MB*	0.1056
9	Pentanoic Acid	16.067	0.003	0.007	BMB	0.0921
10	BAK	20.764	0.066	0.190	BM *	n.a.
11	i-Hexanoic Acid	21.477	0.001	0.004	MB*	0.1424
12	Hexanoic Acid	24.510	0.002	0.005	BMB*	0.1126



BOE-C6-0189005

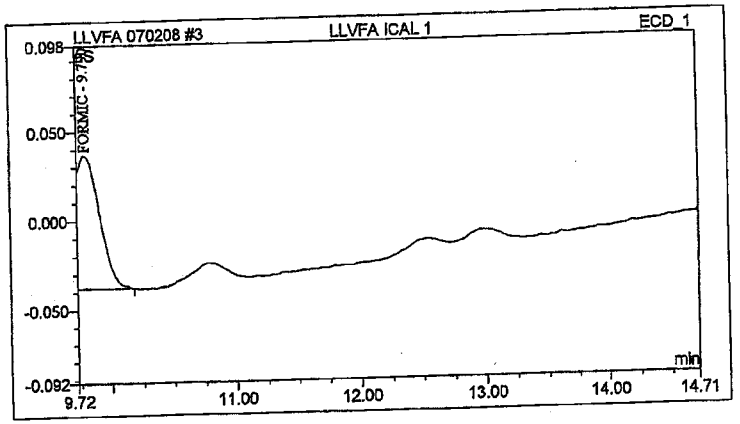
P0806295

MICROSEEPS

Sample Analysis Report

Sample Name:	LLVFA ICAL 1	**Sequence No:**	3
Sequence Name:	LLVFA 070208	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	7/2/2008 11:27 AM	**Analytical Method:**	AM23G
System Operator:	chemware	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	5.557	0.020	0.102	BMB	n.a.
2	Lactic Acid and HIBA	6.720	0.006	0.030	BMB	0.1397
3	Acetic Acid	7.197	0.007	0.032	BMB	0.0735
4	Propionic acid	8.504	0.004	0.015	BMB	0.0644
5	FORMIC	9.790	0.021	0.075	BMB	n.a.
6	Pentanoic Acid	16.067	0.003	0.007	BMB	0.0921
7	BAK	20.764	0.065	0.188	BMB	n.a.



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current time: 5:04 PM

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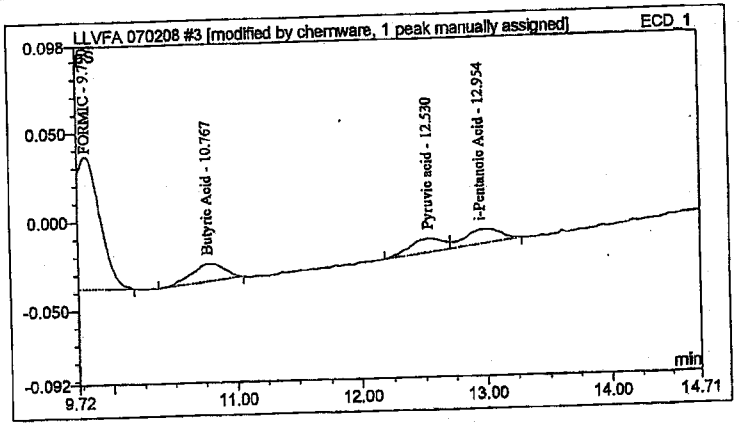
P0806295

MICROSEEPS

Sample Analysis Report

Sample Name:	LLVFA ICAL 1	**Sequence No:**	3
Sequence Name:	LLVFA 070208	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	7/2/2008 11:27 AM	**Analytical Method:**	AM23G
System Operator:	chemware	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	5.557	0.020	0.102	BMB	n.a.
2	Lactic Acid and HIBA	6.720	0.006	0.030	BMB	0.1397
3	Acetic Acid	7.197	0.007	0.032	BMB	0.0735
4	Propionic acid	8.504	0.004	0.015	BMB	0.0644
5	FORMIC	9.790	0.021	0.075	BMB	n.a.
6	Butyric Acid	10.767	0.003	0.010	BMB*	0.0950
7	Pyruvic acid	12.530	0.002	0.008	BM *^	0.1353
8	i-Pentanoic Acid	12.954	0.003	0.008	MB*	0.1056
9	Pentanoic Acid	16.067	0.003	0.007	BMB	0.0921
10	BAK	20.764	0.065	0.188	BMB	n.a.



6.60 Build 1428

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current time: 5:04 PM

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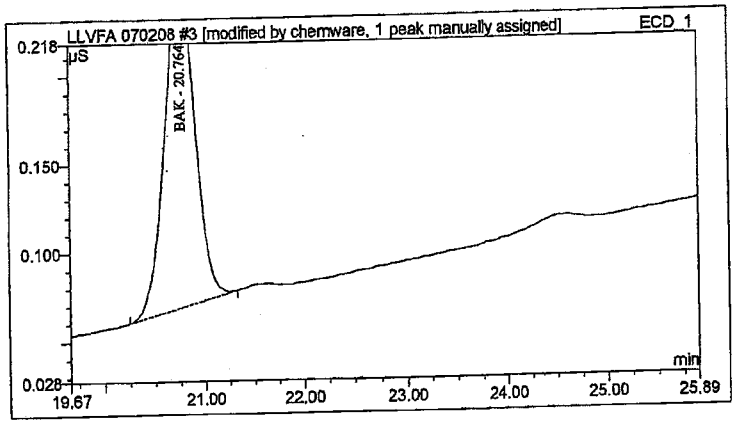
MICROSEEPS

Sample Analysis Report

Sample Name:	LLVFA ICAL 1	**Sequence No:**	3
Sequence Name:	LLVFA 070208	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	7/2/2008 11:27 AM	**Analytical Method:**	AM23G
System Operator:	chemware	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	5.557	0.020	0.102	BMB	n.a.
2	Lactic Acid and HIBA	6.720	0.006	0.030	BMB	0.1397
3	Acetic Acid	7.197	0.007	0.032	BMB	0.0735
4	Propionic acid	8.504	0.004	0.015	BMB	0.0644
5	FORMIC	9.790	0.021	0.075	BMB	n.a.
6	Butyric Acid	10.767	0.003	0.010	BMB*	0.0950
7	Pyruvic acid	12.530	0.002	0.008	BM *^	0.1353
8	i-Pentanoic Acid	12.954	0.003	0.008	MB*	0.1056
9	Pentanoic Acid	16.067	0.003	0.007	BMB	0.0921
10	BAK	20.764	0.065	0.188	BMB	n.a.



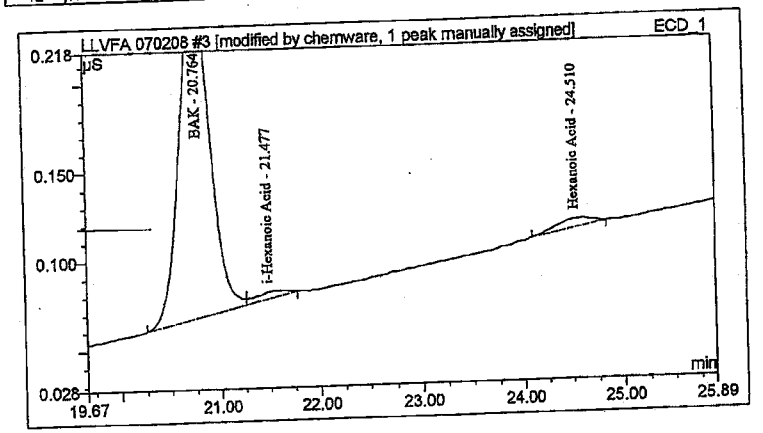
P0806295

MICROSEEPS

Sample Analysis Report

Sample Name:	LLVFA ICAL 1	**Sequence No:**	3
Sequence Name:	LLVFA 070208	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	7/2/2008 11:27 AM	**Analytical Method:**	AM23G
System Operator:	chemware	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	5.557	0.020	0.102	BMB	n.a.
2	Lactic Acid and HIBA	6.720	0.006	0.030	BMB	0.1397
3	Acetic Acid	7.197	0.007	0.032	BMB	0.0735
4	Propionic acid	8.504	0.004	0.015	BMB	0.0644
5	FORMIC	9.790	0.021	0.075	BMB	n.a.
6	Butyric Acid	10.767	0.003	0.010	BMB*	0.0950
7	Pyruvic acid	12.530	0.002	0.008	BM *^	0.1353
8	i-Pentanoic Acid	12.954	0.003	0.008	MB*	0.1056
9	Pentanoic Acid	16.067	0.003	0.007	BMB	0.0921
10	BAK	20.764	0.066	0.190	BM *	n.a.
11	i-Hexanoic Acid	21.477	0.001	0.004	MB*	0.1424
12	Hexanoic Acid	24.510	0.002	0.005	BMB*	0.1126



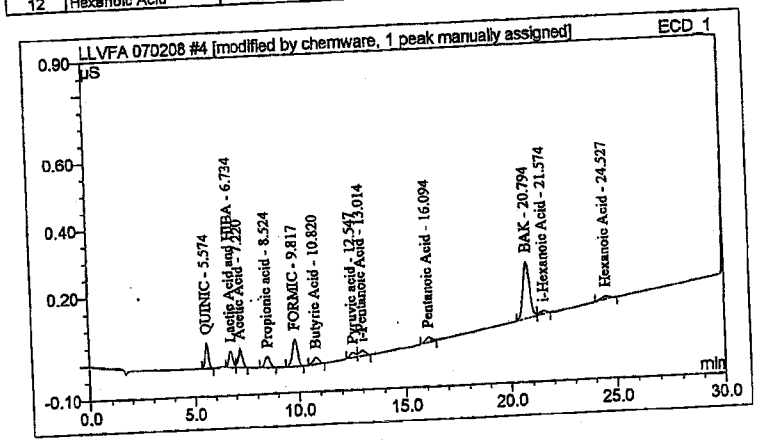
BOE-C6-0189007

MICROSEEPS

Sample Analysis Report

Sample Name:	LLVFA ICAL 2	**Sequence No:**	4
Sequence Name:	LLVFA 070208	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	7/2/2008 12:08 PM	**Analytical Method:**	AM23G
System Operator:	chemware	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	5.574	0.014	0.074	BMB	n.a.
2	Lactic Acid and HIBA	6.734	0.011	0.048	BM	0.1833
3	Acetic Acid	7.220	0.013	0.056	MB	0.1147
4	Propionic acid	8.524	0.009	0.032	BMB	0.1118
5	FORMIC	9.817	0.023	0.080	BMB	n.a.
6	Butyric Acid	10.820	0.007	0.020	BMB	0.1370
7	Pyruvic acid	12.547	0.005	0.016	BM ^	0.1669
8	i-Pentanoic Acid	13.014	0.005	0.016	MB	0.1425
9	Pentanoic Acid	16.094	0.005	0.015	BMB	0.1250
10	BAK	20.794	0.058	0.167	BM *	n.a.
11	i-Hexanoic Acid	21.574	0.003	0.008	MB*	0.1743
12	Hexanoic Acid	24.527	0.005	0.010	BMB	0.1626

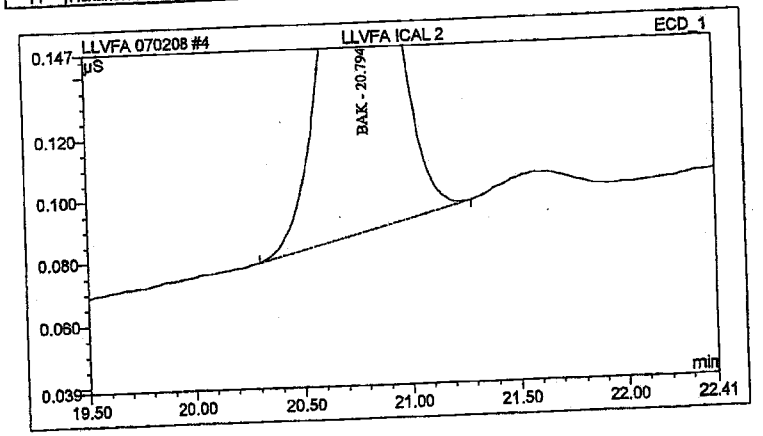


MICROSEEPS

Sample Analysis Report

Sample Name:	LLVFA ICAL 2	**Sequence No:**	4
Sequence Name:	LLVFA 070208	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	7/2/2008 12:08 PM	**Analytical Method:**	AM23G
System Operator:	chemware	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	5.574	0.014	0.074	BMB	n.a.
2	Lactic Acid and HIBA	6.734	0.011	0.048	BM	0.1833
3	Acetic Acid	7.220	0.013	0.056	MB	0.1147
4	Propionic acid	8.524	0.009	0.032	BMB	0.1118
5	FORMIC	9.817	0.023	0.080	BMB	n.a.
6	Butyric Acid	10.820	0.007	0.020	BMB	0.1370
7	i-Pentanoic Acid	12.547	0.005	0.016	BM	0.1321
8	Pyruvic acid	13.014	0.005	0.016	MB	0.1776
9	Pentanoic Acid	16.094	0.005	0.015	BMB	0.1250
10	BAK	20.794	0.056	0.165	BMB	n.a.
11	Hexanoic Acid	24.527	0.005	0.010	BMB	0.1626



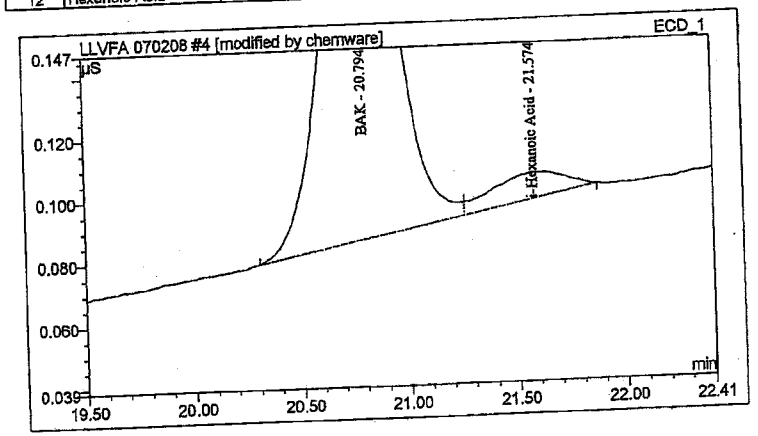
BOE-C6-0189008

MICROSEEPS

Sample Analysis Report

Sample Name:	LLVFA ICAL 2	**Sequence No:**	4
Sequence Name:	LLVFA 070208	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	7/2/2008 12:08 PM	**Analytical Method:**	AM23G
System Operator:	chemware	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	5.574	0.014	0.074	BMB	n.a.
2	Lactic Acid and HIBA	6.734	0.011	0.048	BM	0.1833
3	Acetic Acid	7.220	0.013	0.056	MB	0.1147
4	Propionic acid	8.524	0.009	0.032	BMB	0.1118
5	FORMIC	9.817	0.023	0.080	BMB	n.a.
6	Butyric Acid	10.820	0.007	0.020	BMB	0.1370
7	i-Pentanoic Acid	12.547	0.005	0.016	BM	0.1321
8	Pyruvic acid	13.014	0.005	0.016	MB	0.1776
9	Pentanoic Acid	16.094	0.005	0.015	BMB	0.1250
10	BAK	20.794	0.058	0.167	BM *	n.a.
11	i-Hexanoic Acid	21.574	0.003	0.008	MB*	0.1743
12	Hexanoic Acid	24.527	0.005	0.010	BMB	0.1626

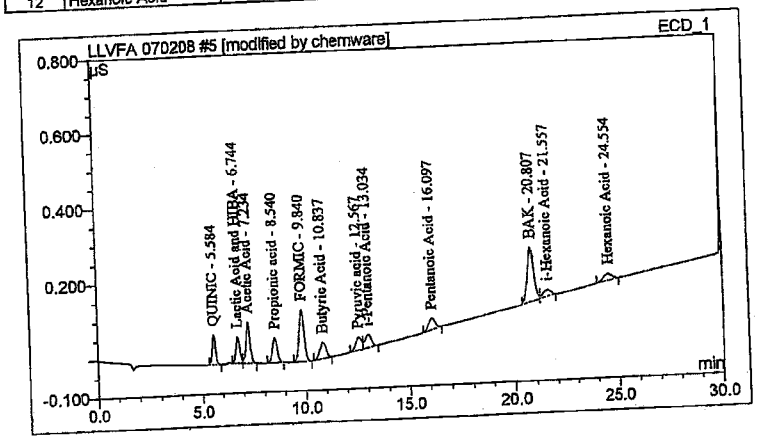


MICROSEEPS

Sample Analysis Report

Sample Name:	LLVFA ICAL 3	**Sequence No:**	5
Sequence Name:	LLVFA 070208	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	7/2/2008 12:50 PM	**Analytical Method:**	AM23G
System Operator:	chemware	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	5.584	0.015	0.080	BMB	n.a.
2	Lactic Acid and HIBA	6.744	0.016	0.071	BM	0.2350
3	Acetic Acid	7.234	0.025	0.109	MB	0.2017
4	Propionic acid	8.540	0.018	0.066	BMB	0.2005
5	FORMIC	9.840	0.039	0.138	BMB	n.a.
6	Butyric Acid	10.837	0.014	0.043	BMB	0.2220
7	Pyruvic acid	12.567	0.011	0.034	BM	0.2509
8	i-Pentanoic Acid	13.034	0.012	0.035	MB	0.2350
9	Pentanoic Acid	16.097	0.011	0.030	BMB	0.2121
10	BAK	20.807	0.049	0.142	BM *	n.a.
11	i-Hexanoic Acid	21.557	0.008	0.017	MB*	0.2425
12	Hexanoic Acid	24.554	0.009	0.019	BMB	0.2306



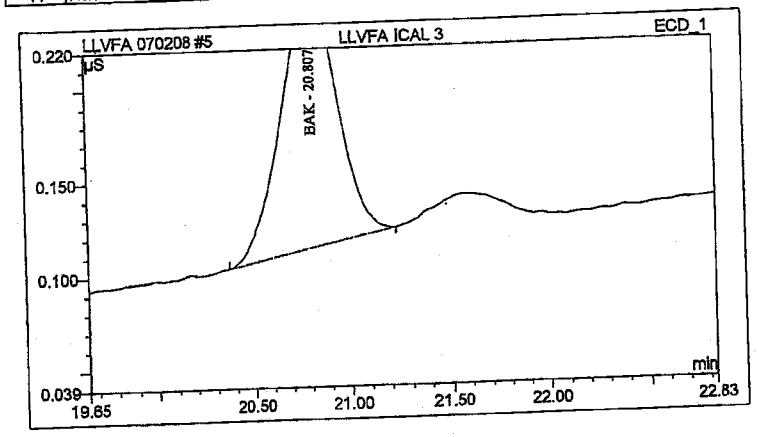
BOE-C6-0189009

MICROSEEPS

Sample Analysis Report

Sample Name:	LLVFA ICAL 3	**Sequence No:**	5
Sequence Name:	LLVFA 070208	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	7/2/2008 12:50 PM	**Analytical Method:**	AM23G
System Operator:	chemware	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	5.584	0.015	0.080	BMB	n.a.
2	Lactic Acid and HIBA	6.744	0.016	0.071	BM	0.2350
3	Acetic Acid	7.234	0.025	0.109	MB	0.2017
4	Propionic acid	8.540	0.018	0.066	BMB	0.2005
5	FORMIC	9.840	0.039	0.138	BMB	n.a.
6	Butyric Acid	10.837	0.014	0.043	BMB	0.2220
7	Pyruvic acid	12.567	0.011	0.034	BM	0.2509
8	i-Pentanoic Acid	13.034	0.012	0.035	MB	0.2350
9	Pentanoic Acid	16.097	0.011	0.030	BMB	0.2121
10	BAK	20.807	0.046	0.139	BMB	n.a.
11	Hexanoic Acid	24.554	0.009	0.019	BMB	0.2306



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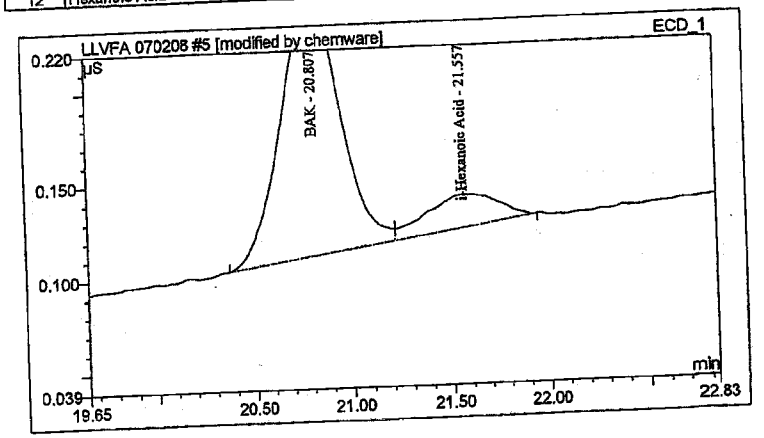
Sample Analysis Report

Sample Name:	LLVFA ICAL 3	**Sequence No:**	5
Sequence Name:	LLVFA 070208	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	7/2/2008 12:50 PM	**Analytical Method:**	AM23G
System Operator:	chemware	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	5.584	0.015	0.080	BMB	n.a.
2	Lactic Acid and HIBA	6.744	0.016	0.071	BM	0.2350
3	Acetic Acid	7.234	0.025	0.109	MB	0.2017
4	Propionic acid	8.540	0.018	0.066	BMB	0.2005
5	FORMIC	9.840	0.039	0.138	BMB	n.a.
6	Butyric Acid	10.837	0.014	0.043	BMB	0.2220
7	Pyruvic acid	12.567	0.011	0.034	BM	0.2509
8	i-Pentanoic Acid	13.034	0.012	0.035	MB	0.2350
9	Pentanoic Acid	16.097	0.011	0.030	BMB	0.2121
10	BAK	20.807	0.049	0.142	BM *	n.a.
11	i-Hexanoic Acid	21.557	0.008	0.017	MB*	0.2425
12	Hexanoic Acid	24.554	0.009	0.019	BMB	0.2306



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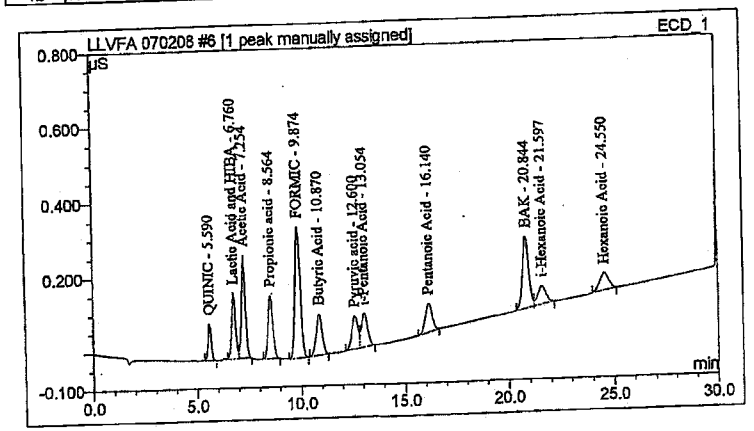
Sample Analysis Report

Sample Name:	LLVFA ICAL 4	**Sequence No:**	6
Sequence Name:	LLVFA 070208	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	7/2/2008 1:31 PM	**Analytical Method:**	AM23G
System Operator:	chemware	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	5.590	0.019	0.099	BMB	n.a.
2	Lactic Acid and HIBA	6.760	0.040	0.177	BM	0.4771
3	Acetic Acid	7.254	0.064	0.275	MB	0.4785
4	Propionic acid	8.564	0.048	0.170	BMB	0.4852
5	FORMIC	9.874	0.100	0.351	BMB	n.a.
6	Butyric Acid	10.870	0.037	0.111	BMB	0.4821
7	Pyruvic acid	12.600	0.029	0.089	BM ^	0.4995
8	i-Pentanoic Acid	13.054	0.032	0.090	MB	0.4899
9	Pentanoic Acid	16.140	0.030	0.077	BMB	0.4726
10	BAK	20.844	0.068	0.191	BM	n.a.
11	i-Hexanoic Acid	21.597	0.023	0.049	MB	0.5000
12	Hexanoic Acid	24.550	0.023	0.046	BMB	0.4778

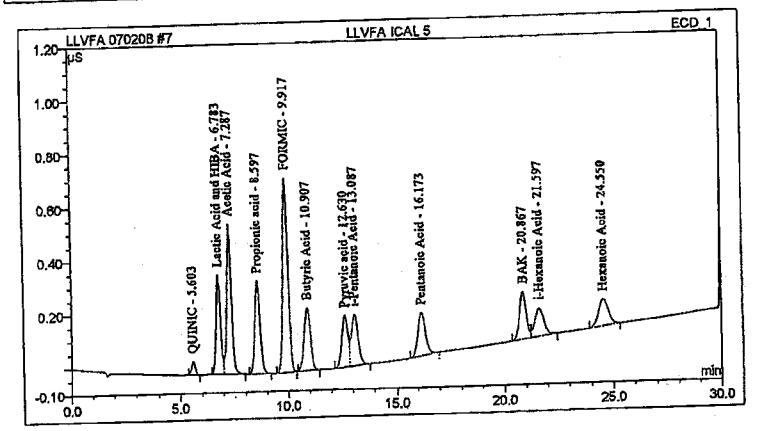


MICROSEEPS

Sample Analysis Report

Sample Name:	LLVFA ICAL 5	**Sequence No:**	7
Sequence Name:	LLVFA 070208	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	7/2/2008 2:12 PM	**Analytical Method:**	AM23G
System Operator:	chemware	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	5.603	0.010	0.052	BMB	n.a.
2	Lactic Acid and HIBA	6.783	0.086	0.375	BM	0.9298
3	Acetic Acid	7.287	0.137	0.562	MB	1.0047
4	Propionic acid	8.597	0.101	0.350	BMB	0.9956
5	FORMIC	9.917	0.211	0.730	BMB	n.a.
6	Butyric Acid	10.907	0.081	0.237	BMB	0.9749
7	Pyruvic acid	12.630	0.064	0.195	BM	0.9502
8	i-Pentanoic Acid	13.087	0.070	0.193	MB	0.9950
9	Pentanoic Acid	16.173	0.066	0.183	BMB	0.9763
10	BAK	20.867	0.062	0.180	BM	n.a.
11	i-Hexanoic Acid	21.597	0.052	0.107	MB	1.0000
12	Hexanoic Acid	24.550	0.053	0.100	BMB	0.9835



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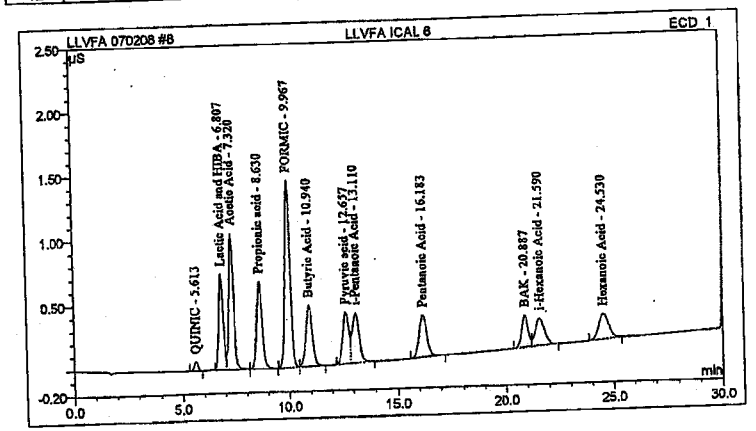
Sample Analysis Report

Sample Name:	LLVFA ICAL 6	**Sequence No:**	8
Sequence Name:	LLVFA 070208	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	7/2/2008 2:53 PM	**Analytical Method:**	AM23G
System Operator:	chemware	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	5.613	0.014	0.073	BMB	n.a.
2	Lactic Acid and HIBA	6.807	0.175	0.745	BM	1.7595
3	Acetic Acid	7.320	0.268	1.059	M	1.9494
4	Propionic acid	8.630	0.203	0.679	MB	1.9770
5	FORMIC	9.967	0.433	1.453	BM	n.a.
6	Butyric Acid	10.940	0.168	0.476	MB	1.9524
7	Pyruvic acid	12.657	0.133	0.405	BM	1.7996
8	i-Pentanoic Acid	13.110	0.141	0.389	MB	1.9464
9	Pentanoic Acid	16.183	0.135	0.329	BMB	1.9259
10	BAK	20.887	0.086	0.251	BM	n.a.
11	i-Hexanoic Acid	21.590	0.105	0.212	MB	2.0000
12	Hexanoic Acid	24.530	0.108	0.198	BMB	1.8849



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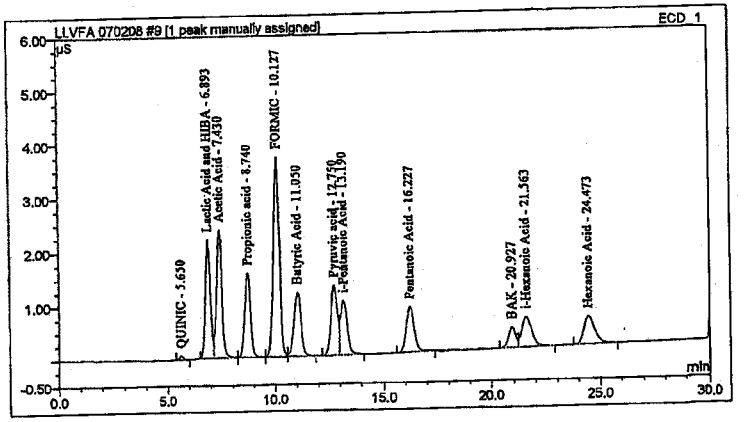
Sample Analysis Report

Sample Name:	LLVFA ICAL 7	**Sequence No:**	9
Sequence Name:	LLVFA 070208	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	7/2/2008 3:34 PM	**Analytical Method:**	AM23G
System Operator:	chemware	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	5.650	0.016	0.074	BMB	n.a.
2	Lactic Acid and HIBA	6.893	0.583	2.205	BM	5.1469
3	Acetic Acid	7.430	0.691	2.381	M	5.0343
4	Propionic acid	8.740	0.519	1.573	MB	5.0180
5	FORMIC	10.127	1.246	3.714	BM	n.a.
6	Butyric Acid	11.050	0.446	1.195	MB	5.0390
7	Pyruvic acid	12.750	0.447	1.309	BM	5.1066
8	i-Pentanoic Acid	13.190	0.369	1.013	MB	5.0408
9	Pentanoic Acid	16.227	0.369	0.850	BMB	5.0563
10	BAK	20.927	0.135	0.391	BM ^	n.a.
11	i-Hexanoic Acid	21.563	0.302	0.565	MB	n.a.
12	Hexanoic Acid	24.473	0.312	0.521	BMB	5.0725



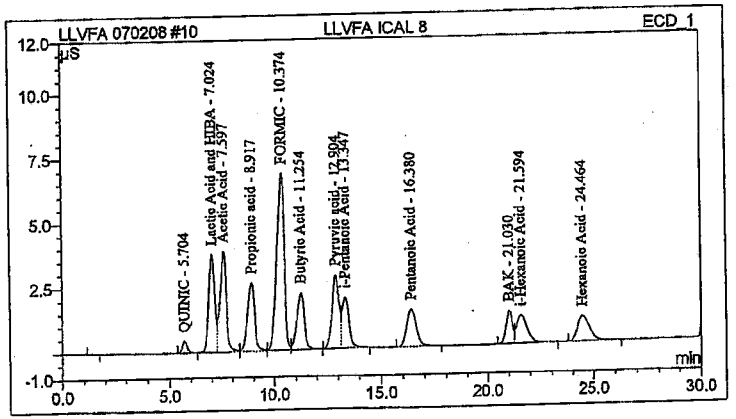
MICROSEEPS

P0806295

Sample Analysis Report

Sample Name:	LLVFA ICAL 8	**Sequence No:**	10
Sequence Name:	LLVFA 070208	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	7/2/2008 4:58 PM	**Analytical Method:**	AM23G
System Operator:	chemware	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
2	QUINIC	5.704	0.118	0.450	Ru	n.a.
3	Lactic Acid and HIBA	7.024	1.271	3.775	BM	9.9750
4	Acetic Acid	7.597	1.379	3.882	M	9.9956
5	Propionic acid	8.917	1.029	2.633	M	9.9960
6	FORMIC	10.374	2.754	6.842	M	n.a.
7	Butyric Acid	11.254	0.888	2.194	MB	9.9895
8	Pyruvic acid	12.904	1.072	2.836	BM	9.9864
9	I-Pentanoic Acid	13.347	0.751	1.961	MB	9.9947
10	Pentanoic Acid	16.380	0.750	1.450	BMB	9.9892
11	BAK	21.030	0.446	1.281	BM	n.a.
12	I-Hexanoic Acid	21.594	0.625	1.091	MB	9.9850
13	Hexanoic Acid	24.464	0.659	0.987	BMB	9.9861



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current date: 7/3/2008
current time: 8:22 AM

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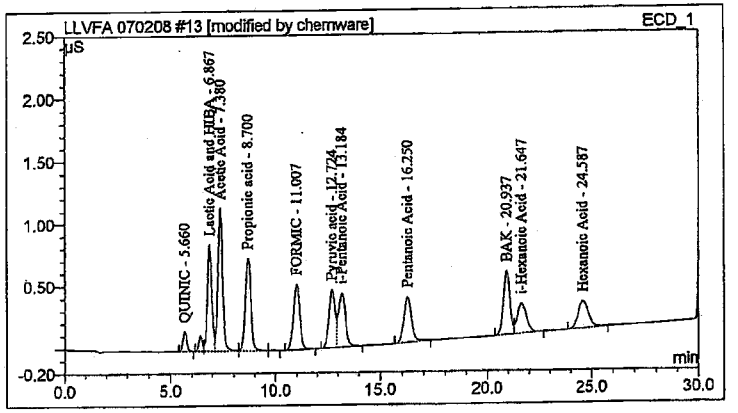
P0806295

Sample Analysis Report

Sample Name:	ICV	**Sequence No:**	13
Sequence Name:	LLVFA 070208	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	7/2/2008 7:42 PM	**Analytical Method:**	AM23G
System Operator:	chemware	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	5.660	0.033	0.162	BMB	n.a.
3	Lactic Acid and HIBA	6.867	0.209	0.855	M *	2.0521
4	Acetic Acid	7.380	0.299	1.148	M	2.1872
5	Propionic acid	8.700	0.228	0.743	M	2.2145
7	FORMIC	11.007	0.188	0.524	BMB	n.a.
8	Pyruvic acid	12.724	0.155	0.467	BM	2.0778
9	I-Pentanoic Acid	13.184	0.158	0.431	MB	2.2013
10	Pentanoic Acid	16.250	0.151	0.364	BMB	2.1313
11	BAK	20.937	0.175	0.508	BM	n.a.
12	I-Hexanoic Acid	21.647	0.120	0.239	MB	2.1197
13	Hexanoic Acid	24.587	0.120	0.215	BMB	2.0819



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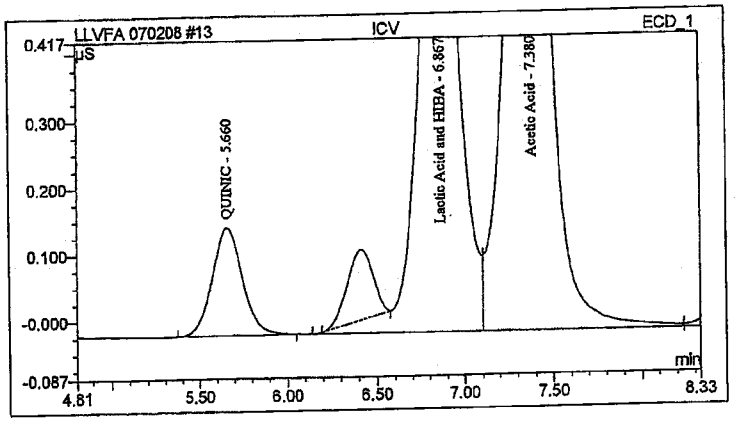
MICROSEEPS

P0806295

Sample Analysis Report

Sample Name:	ICV	**Sequence No:**	13
Sequence Name:	LLVFA 070208	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	7/2/2008 7:42 PM	**Analytical Method:**	AM23G
System Operator:	chemware	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	5.660	0.033	0.162	BMB	n.a.
3	Lactic Acid and HIBA	6.867	0.215	0.855	BM	2.1108
4	Acetic Acid	7.380	0.299	1.148	M	2.1872
5	Propionic acid	8.700	0.228	0.743	M	2.2145
6	FORMIC	9.974	0.002	0.005	MB	n.a.
7	Butyric Acid	11.007	0.188	0.524	BMB	2.1638
8	Pyruvic acid	12.724	0.155	0.467	BM	2.0778
9	I-Pentanoic Acid	13.184	0.158	0.431	MB	2.2013
10	Pentanoic Acid	16.250	0.151	0.364	BMB	2.1313
11	BAK	20.937	0.175	0.508	BM	n.a.
12	I-Hexanoic Acid	21.647	0.120	0.239	MB	2.1197
13	Hexanoic Acid	24.587	0.120	0.215	BMB	2.0819



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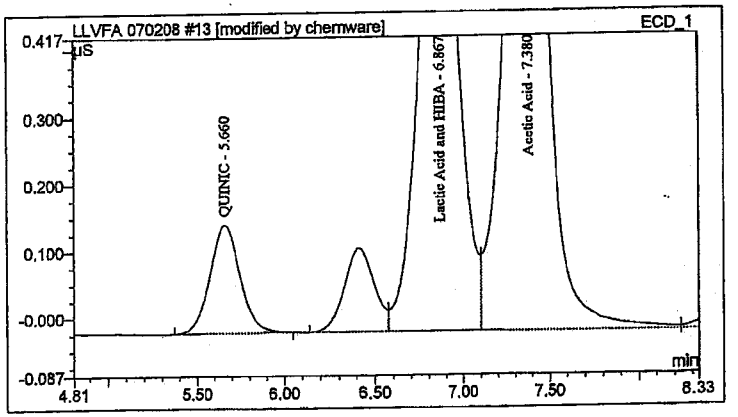
Sample Analysis Report

Sample Name:	ICV	**Sequence No:**	13
Sequence Name:	LLVFA 070208	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	7/2/2008 7:42 PM	**Analytical Method:**	AM23G
System Operator:	chemware	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	5.660	0.033	0.162	BMB	n.a.
3	Lactic Acid and HIBA	6.867	0.209	0.855	M *	2.0521
4	Acetic Acid	7.380	0.299	1.148	M	2.1872
5	Propionic acid	8.700	0.228	0.743	M	2.2145
7	FORMIC	11.007	0.188	0.524	BMB	n.a.
8	Pyruvic acid	12.724	0.155	0.467	BM	2.0778
9	I-Pentanoic Acid	13.184	0.158	0.431	MB	2.2013
10	Pentanoic Acid	16.250	0.151	0.364	BMB	2.1313
11	BAK	20.937	0.175	0.508	BM	n.a.
12	I-Hexanoic Acid	21.647	0.120	0.239	MB	2.1197
13	Hexanoic Acid	24.587	0.120	0.215	BMB	2.0819



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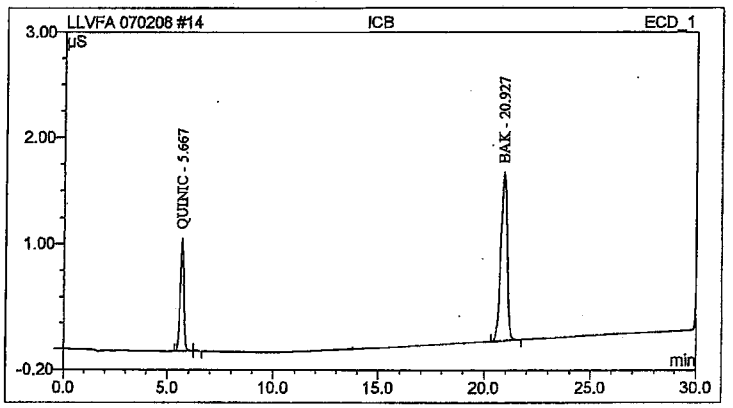
Sample Analysis Report

Sample Name:	ICB	**Sequence No:**	14
Sequence Name:	LLVFA 070208	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	7/2/2008 8:23 PM	**Analytical Method:**	AM23G
System Operator:	chemware	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	5.667	0.217	1.079	BM	n.a.
3	BAK	20.927	0.544	1.595	BMB	n.a.



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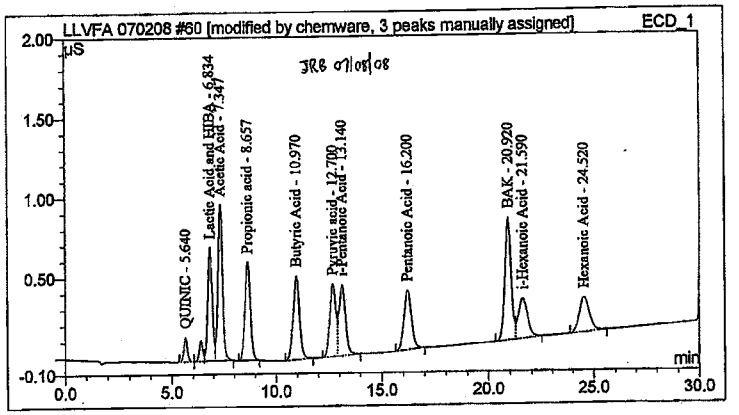
Sample Analysis Report

Sample Name:	CCV	**Sequence No:**	60
Sequence Name:	LLVFA 070208	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	7/4/2008 5:57 AM	**Analytical Method:**	AM23G
System Operator:	chemware	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM	% recovery
1	QUINIC	5.640	0.030	0.150	BM	n.a.	
3	Lactic Acid and HIBA	6.834	0.172	0.706	M *	1.7235	86
4	Acetic Acid	7.347	0.246	0.971	MB^	1.7982	90
5	Propionic acid	8.657	0.180	0.609	BMB^	1.7499	87
6	Butyric Acid	10.970	0.186	0.520	BMB^	2.1469	107
7	Pyruvic acid	12.700	0.148	0.448	BM	1.9995	100
8	i-Pentanoic Acid	13.140	0.159	0.438	MB	2.2181	111
9	Pentanoic Acid	16.200	0.150	0.370	BMB	2.1235	106
10	BAK	20.920	0.266	0.768	BM	n.a.	
11	i-Hexanoic Acid	21.590	0.122	0.247	MB	2.1580	108
12	Hexanoic Acid	24.520	0.121	0.217	BMB	2.0891	104



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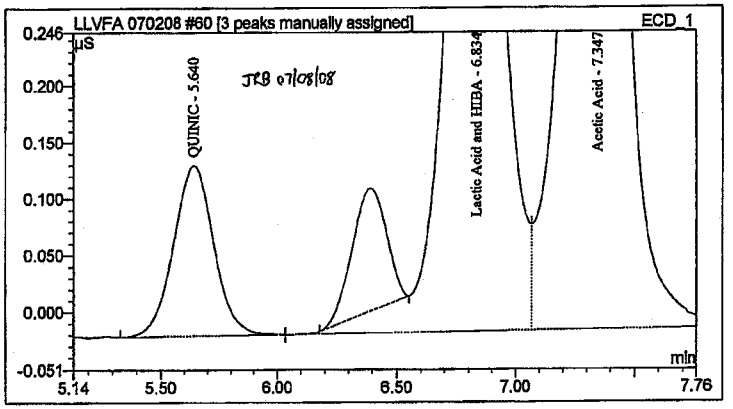
MICROSEEPS

Sample Analysis Report

Sample Name:	CCV	**Sequence No:**	60
Sequence Name:	LLVFA 070208	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	7/4/2008 5:57 AM	**Analytical Method:**	AM23G
System Operator:	chemware	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	5.640	0.030	0.150	BM	n.a.
3	Lactic Acid and HIBA	6.834	0.179	0.706	M	1.7810
4	Acetic Acid	7.347	0.246	0.971	MB^	1.7982
5	Propionic acid	8.657	0.180	0.609	BMB^	1.7499
6	Butyric Acid	10.970	0.186	0.520	BMB^	2.1469
7	Pyruvic acid	12.700	0.148	0.448	BM	1.9995
8	i-Pentanoic Acid	13.140	0.159	0.438	MB	2.2181
9	Pentanoic Acid	16.200	0.150	0.370	BMB	2.1235
10	BAK	20.920	0.266	0.768	BM	n.a.
11	i-Hexanoic Acid	21.590	0.122	0.247	MB	2.1580
12	Hexanoic Acid	24.520	0.121	0.217	BMB	2.0891



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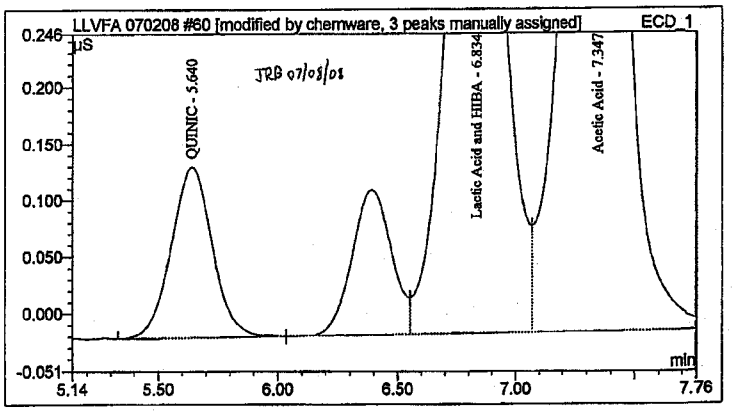
Sample Analysis Report

Sample Name:	CCV	**Sequence No:**	60
Sequence Name:	LLVFA 070208	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	7/4/2008 5:57 AM	**Analytical Method:**	AM23G
System Operator:	chemware	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	5.640	0.030	0.150	BM	n.a.
3	Lactic Acid and HIBA	6.834	0.172	0.706	M *	1.7235
4	Acetic Acid	7.347	0.246	0.971	MB^	1.7982
5	Propionic acid	8.657	0.180	0.609	BMB^	1.7499
6	Butyric Acid	10.970	0.186	0.520	BMB^	2.1469
7	Pyruvic acid	12.700	0.148	0.448	BM	1.9995
8	i-Pentanoic Acid	13.140	0.159	0.438	MB	2.2181
9	Pentanoic Acid	16.200	0.150	0.370	BMB	2.1235
10	BAK	20.920	0.266	0.768	BM	n.a.
11	i-Hexanoic Acid	21.590	0.122	0.247	MB	2.1580
12	Hexanoic Acid	24.520	0.121	0.217	BMB	2.0891



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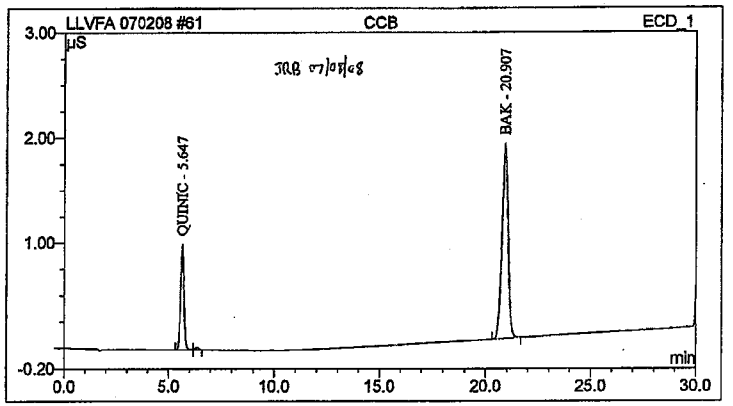
Sample Analysis Report

Sample Name:	CCB	**Sequence No:**	61
Sequence Name:	LLVFA 070208	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	7/4/2008 6:38 AM	**Analytical Method:**	AM23G
System Operator:	chemware	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	5.647	0.198	1.005	BM	n.a.
3	BAK	20.907	0.635	1.855	BMB	n.a.



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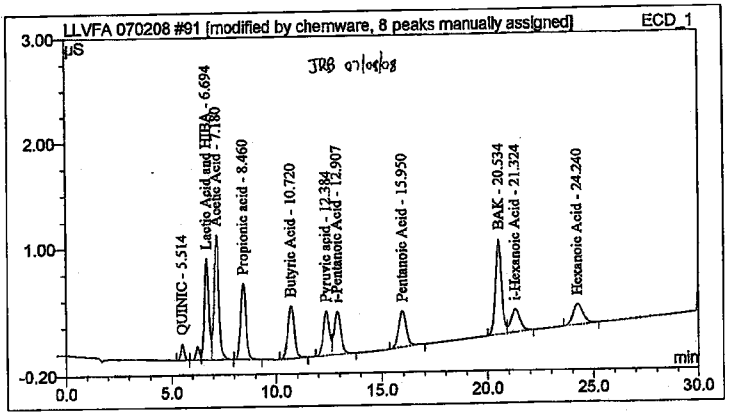
Sample Analysis Report

Sample Name:	CCV	**Sequence No:**	91
Sequence Name:	LLVFA 070208	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	7/7/2008 1:33 PM	**Analytical Method:**	AM23G
System Operator:	chemware	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM	% recovery
1	QUINIC	5.514	0.030	0.155	BM *^	n.a.	
3	Lactic Acid and HIBA	6.694	0.233	0.960	M *^	2.2839	113
4	Acetic Acid	7.180	0.311	1.179	MB^	2.2703	114
5	Propionic acid	8.460	0.209	0.718	BMB^	2.0285	101
6	Butyric Acid	10.720	0.176	0.496	BMB^	2.0249	101
7	Pyruvic acid	12.384	0.136	0.418	BM ^	1.8561	93
8	i-Pentanoic Acid	12.907	0.148	0.404	MB	2.0689	103
9	Pentanoic Acid	15.950	0.141	0.343	BMB	1.9934	100
10	BAK	20.534	0.311	0.902	BM *	n.a.	
11	i-Hexanoic Acid	21.324	0.107	0.216	MB*^	1.9036	95
12	Hexanoic Acid	24.240	0.108	0.194	BMB^	1.8790	94



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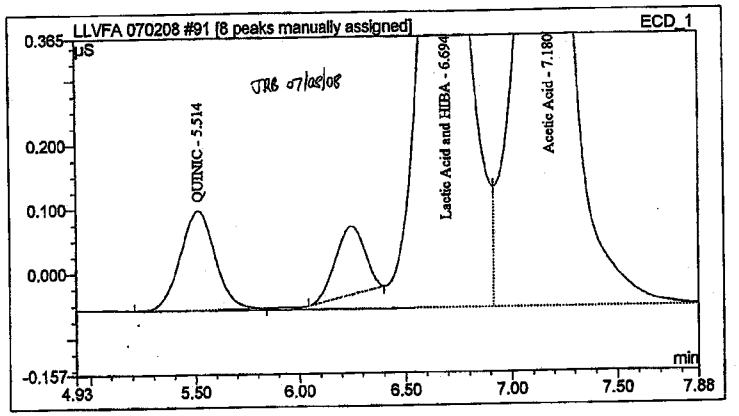
Sample Analysis Report

Sample Name:	CCV	**Sequence No:**	91
Sequence Name:	LLVFA 070208	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	7/7/2008 1:33 PM	**Analytical Method:**	AM23G
System Operator:	chemware	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	5.514	0.030	0.154	Ru^	n.a.
3	Lactic Acid and HIBA	6.694	0.240	0.960	BM ^	2.3342
4	Acetic Acid	7.180	0.311	1.179	MB^	2.2703
5	Propionic acid	8.460	0.209	0.718	BMB^	2.0285
6	Butyric Acid	10.720	0.176	0.496	BMB^	2.0249
7	Pyruvic acid	12.384	0.136	0.418	BM ^	1.8561
8	i-Pentanoic Acid	12.907	0.148	0.404	MB	2.0689
9	Pentanoic Acid	15.950	0.141	0.343	BMB	1.9934
10	BAK	20.534	0.342	0.902	BMB	n.a.
11	i-Hexanoic Acid	21.327	0.075	0.180	Rd^	1.3724
12	Hexanoic Acid	24.240	0.108	0.194	BMB^	1.8790



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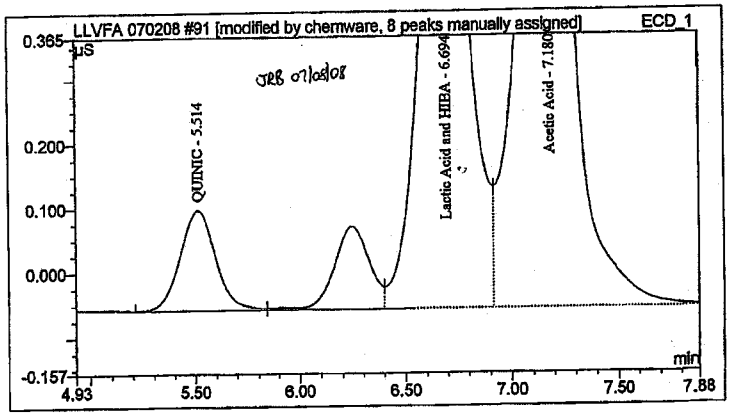
Sample Analysis Report

Sample Name:	CCV	**Sequence No:**	91
Sequence Name:	LLVFA 070208	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	7/7/2008 1:33 PM	**Analytical Method:**	AM23G
System Operator:	chemware	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	5.514	0.030	0.155	BM *^	n.a.
3	Lactic Acid and HIBA	6.694	0.233	0.960	M *^	2.2639
4	Acetic Acid	7.180	0.311	1.179	MB^	2.2703
5	Propionic acid	8.460	0.209	0.718	BMB^	2.0285
6	Butyric Acid	10.720	0.176	0.496	BMB^	2.0249
7	Pyruvic acid	12.384	0.136	0.418	BM ^	1.8561
8	i-Pentanoic Acid	12.907	0.148	0.404	MB	2.0689
9	Pentanoic Acid	15.950	0.141	0.343	BMB	1.9934
10	BAK	20.534	0.342	0.902	BMB	n.a.
11	i-Hexanoic Acid	21.327	0.075	0.180	Rd^	1.3724
12	Hexanoic Acid	24.240	0.108	0.194	BMB^	1.8790



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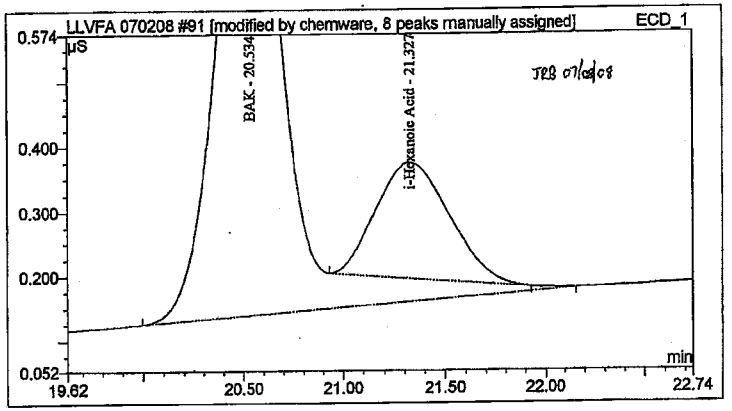
Sample Analysis Report

Sample Name:	CCV	**Sequence No:**	91
Sequence Name:	LLVFA 070208	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	7/7/2008 1:33 PM	**Analytical Method:**	AM23G
System Operator:	chemware	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	5.514	0.030	0.155	BM *^	n.a.
3	Lactic Acid and HIBA	6.694	0.233	0.960	M *^	2.2639
4	Acetic Acid	7.180	0.311	1.179	MB^	2.2703
5	Propionic acid	8.460	0.209	0.718	BMB^	2.0285
6	Butyric Acid	10.720	0.176	0.496	BMB^	2.0249
7	Pyruvic acid	12.384	0.136	0.418	BM ^	1.8561
8	i-Pentanoic Acid	12.907	0.148	0.404	MB	2.0689
9	Pentanoic Acid	15.950	0.141	0.343	BMB	1.9934
10	BAK	20.534	0.342	0.902	BMB	n.a.
11	I-Hexanoic Acid	21.327	0.075	0.180	Rd^	1.3724
12	Hexanoic Acid	24.240	0.108	0.194	BMB^	1.8790



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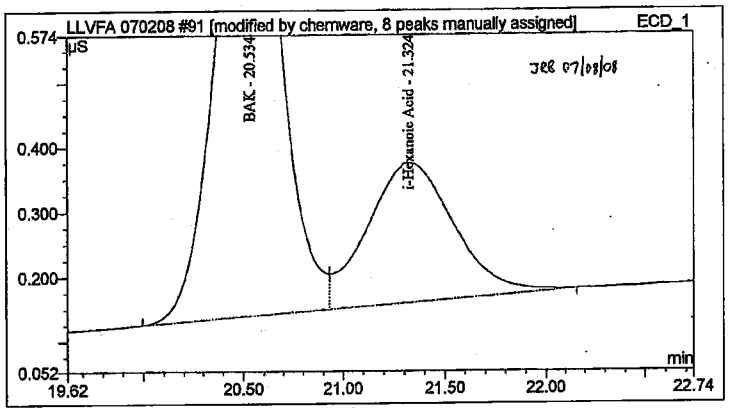
MICROSEEPS

Sample Analysis Report

Sample Name:	CCV	**Sequence No:**	91
Sequence Name:	LLVFA 070208	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	7/7/2008 1:33 PM	**Analytical Method:**	AM23G
System Operator:	chemware	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	5.514	0.030	0.155	BM *^	n.a.
3	Lactic Acid and HIBA	6.694	0.233	0.960	M *^	2.2639
4	Acetic Acid	7.180	0.311	1.179	MB^	2.2703
5	Propionic acid	8.460	0.209	0.718	BMB^	2.0285
6	Butyric Acid	10.720	0.176	0.496	BMB^	2.0249
7	Pyruvic acid	12.384	0.136	0.418	BM ^	1.8561
8	i-Pentanoic Acid	12.907	0.148	0.404	MB	2.0689
9	Pentanoic Acid	15.950	0.141	0.343	BMB	1.9934
10	BAK	20.534	0.311	0.902	BM *	n.a.
11	i-Hexanoic Acid	21.324	0.107	0.216	MB*^	1.9036
12	Hexanoic Acid	24.240	0.108	0.194	BMB^	1.8790



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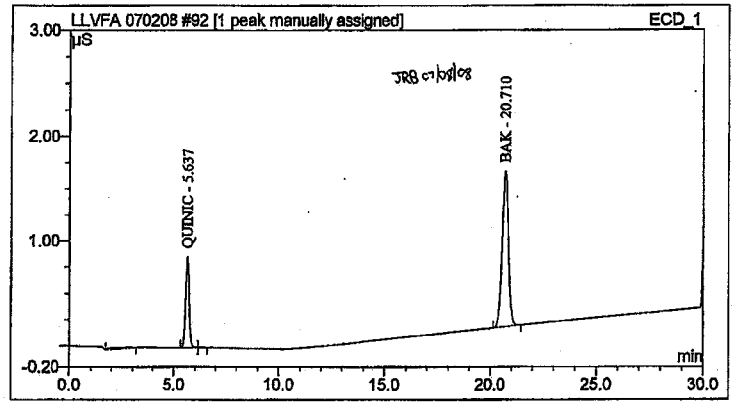
MICROSEEPS

Sample Analysis Report

Sample Name:	CCB	**Sequence No:**	92
Sequence Name:	LLVFA 070208	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	7/7/2008 4:21 PM	**Analytical Method:**	AM23G
System Operator:	chemware	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
2	QUINIC	5.637	0.170	0.868	BM ^	n.a.
4	BAK	20.710	0.509	1.486	BMB	n.a.



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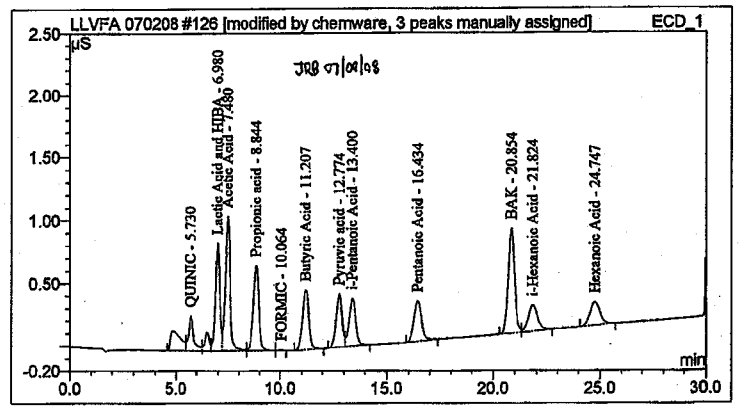
P0806295

MICROSEEPS

Sample Analysis Report

Sample Name:	CCV	**Sequence No:**	126
Sequence Name:	LLVFA 070208	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	7/8/2008 4:19 PM	**Analytical Method:**	AM23G
System Operator:	chemware	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM	% recovery
2	QUINIC	5.730	0.079	0.275	M	n.a.	
4	Lactic Acid and HIBA	6.980	0.209	0.854	M *^	2.0539	103
5	Acetic Acid	7.480	0.283	1.067	M	2.0697	103
6	Propionic acid	8.844	0.207	0.676	M ^	2.0083	100
7	FORMIC	10.064	0.002	0.007	MB	n.a.	
8	Butyric Acid	11.207	0.166	0.475	BMB	1.9196	96
9	Pyruvic acid	12.774	0.135	0.424	BM ^	1.8465	92
10	i-Pentanoic Acid	13.400	0.139	0.379	MB	1.9476	97
11	Pentanoic Acid	16.434	0.130	0.323	BMB	1.8525	93
12	BAK	20.854	0.281	0.832	BM	n.a.	
13	i-Hexanoic Acid	21.824	0.101	0.207	MB	1.8117	91
14	Hexanoic Acid	24.747	0.102	0.186	BMB	1.7757	89



6.60 Build 1428 Page 1 of 1 current date: 7/8/2008 current time: 4:59 PM

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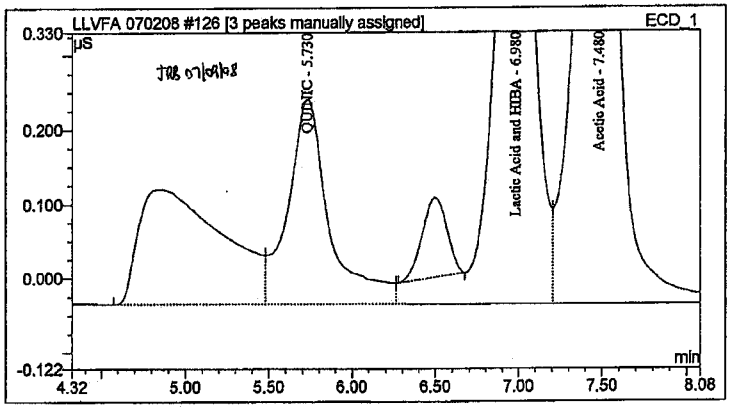
MICROSEEPS

Sample Analysis Report

Sample Name:	CCV	**Sequence No:**	126
Sequence Name:	LLVFA 070208	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	7/8/2008 4:19 PM	**Analytical Method:**	AM23G
System Operator:	chemware	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
2	QUINIC	5.730	0.079	0.275	M	n.a.
4	Lactic Acid and HIBA	6.980	0.223	0.854	M ^	2.1811
5	Acetic Acid	7.480	0.283	1.067	M	2.0697
6	Propionic acid	8.844	0.207	0.676	M ^	2.0083
7	FORMIC	10.064	0.002	0.007	MB	n.a.
8	Butyric Acid	11.207	0.166	0.475	BMB	1.9196
9	Pyruvic acid	12.774	0.135	0.424	BM ^	1.8465
10	i-Pentanoic Acid	13.400	0.139	0.379	MB	1.9476
11	Pentanoic Acid	16.434	0.130	0.323	BMB	1.8525
12	BAK	20.854	0.281	0.832	BM	n.a.
13	i-Hexanoic Acid	21.824	0.101	0.207	MB	1.8117
14	Hexanoic Acid	24.747	0.102	0.186	BMB	1.7757



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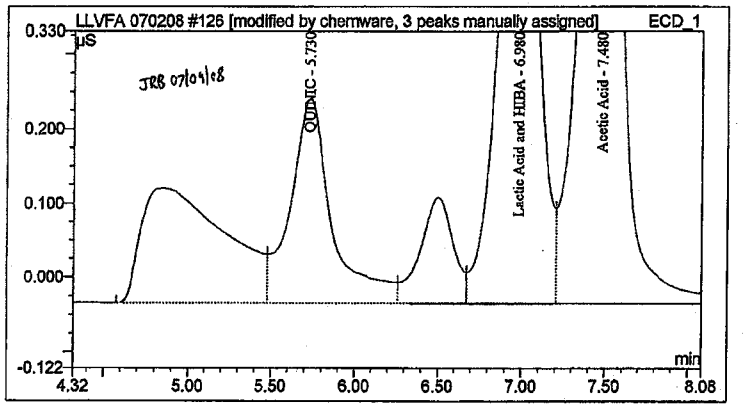
current date: 7/8/2008
current time: 4:58 PM

MICROSEEPS

Sample Analysis Report

Sample Name:	CCV	**Sequence No:**	126
Sequence Name:	LLVFA 070208	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	7/8/2008 4:19 PM	**Analytical Method:**	AM23G
System Operator:	chemware	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
2	QUINIC	5.730	0.079	0.275	M	n.a.
4	Lactic Acid and HIBA	6.980	0.209	0.854	M *^	2.0539
5	Acetic Acid	7.480	0.283	1.067	M	2.0697
6	Propionic acid	8.844	0.207	0.676	M ^	2.0083
7	FORMIC	10.064	0.002	0.007	MB	n.a.
8	Butyric Acid	11.207	0.166	0.475	BMB	1.9196
9	Pyruvic acid	12.774	0.135	0.424	BM ^	1.8465
10	i-Pentanoic Acid	13.400	0.139	0.379	MB	1.9476
11	Pentanoic Acid	16.434	0.130	0.323	BMB	1.8525
12	BAK	20.854	0.281	0.832	BM	n.a.
13	i-Hexanoic Acid	21.824	0.101	0.207	MB	1.8117
14	Hexanoic Acid	24.747	0.102	0.186	BMB	1.7757



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current date: 7/8/2008
current time: 4:59 PM

BOE-C6-0189021

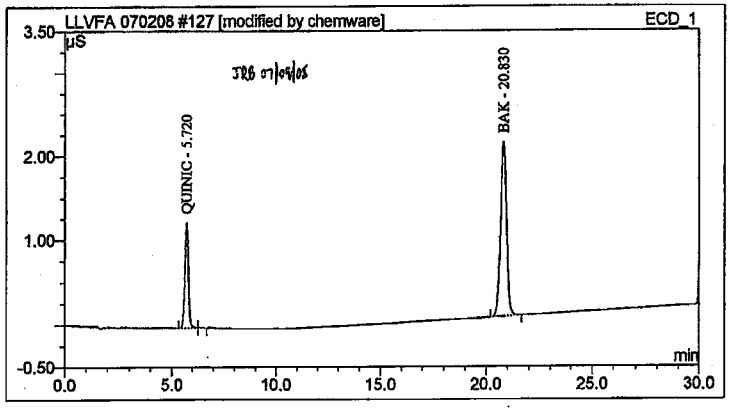
P0806295

MICROSEEPS

Sample Analysis Report

Sample Name:	CCB	**Sequence No:**	127
Sequence Name:	LLVFA 070208	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	7/8/2008 5:00 PM	**Analytical Method:**	AM23G
System Operator:	chemware	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	5.720	0.250	1.251	BM	n.a.
3	BAK	20.830	0.695	2.066	BMB	n.a.



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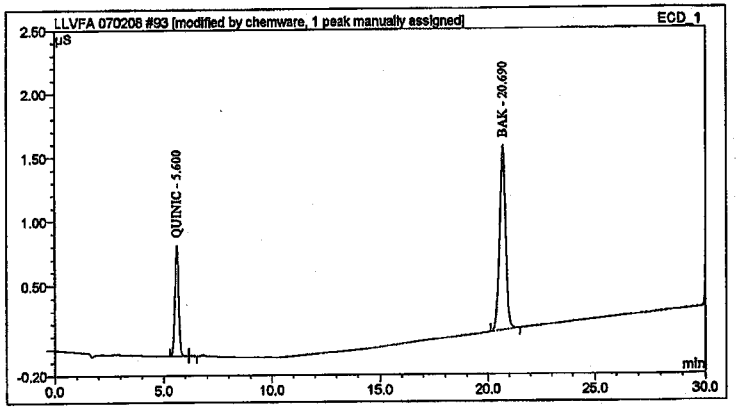
P0806295

MICROSEEPS

Sample Analysis Report

Sample Name:	M080626010-MB	**Sequence No:**	93
Sequence Name:	LLVFA 070208	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	7/7/2008 5:02 PM	**Analytical Method:**	AM23G
System Operator:	chemware	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	5.600	0.167	0.860	BMB^	n.a.
3	BAK	20.690	0.488	1.438	BMB	n.a.



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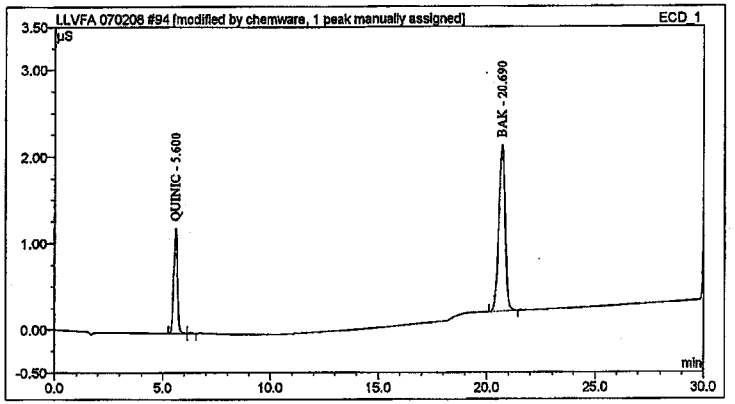
MICROSEEPS

Sample Analysis Report

Sample Name:	MB 070708	**Sequence No:**	94
Sequence Name:	LLVFA 070208	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	7/7/2008 5:43 PM	**Analytical Method:**	AM23G
System Operator:	chemware	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	5.600	0.240	1.219	BM ^	n.a.
3	BAK	20.690	0.650	1.914	BMB	n.a.

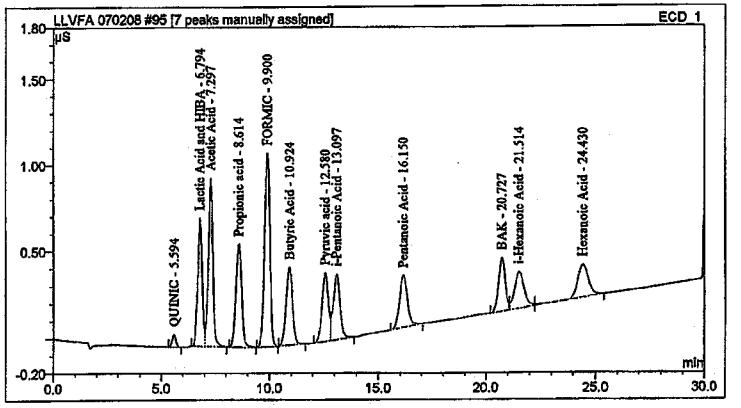


MICROSEEPS

Sample Analysis Report

Sample Name:	M080626010-LCS	**Sequence No:**	95
Sequence Name:	LLVFA 070208	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	7/7/2008 6:24 PM	**Analytical Method:**	AM23G
System Operator:	chemware	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	5.594	0.014	0.071	BMB^	n.a.
2	Lactic Acid and HIBA	6.794	0.172	0.736	BM ^	1.7196
3	Acetic Acid	7.297	0.243	0.968	MB	1.7804
4	Propionic acid	8.614	0.175	0.591	BMB^	1.7012
5	FORMIC	9.900	0.324	1.118	BMB^	n.a.
6	Butyric Acid	10.924	0.156	0.447	BMB^	1.8010
7	Pyruvic acid	12.580	0.127	0.392	BM ^	1.7454
8	i-Pentanoic Acid	13.097	0.136	0.375	MB	1.9121
9	Pentanoic Acid	16.150	0.125	0.298	BMB	1.7762
10	BAK	20.727	0.107	0.306	BM	n.a.
11	i-Hexanoic Acid	21.514	0.104	0.206	M ^	1.8547
12	Hexanoic Acid	24.430	0.102	0.185	MB	1.7764



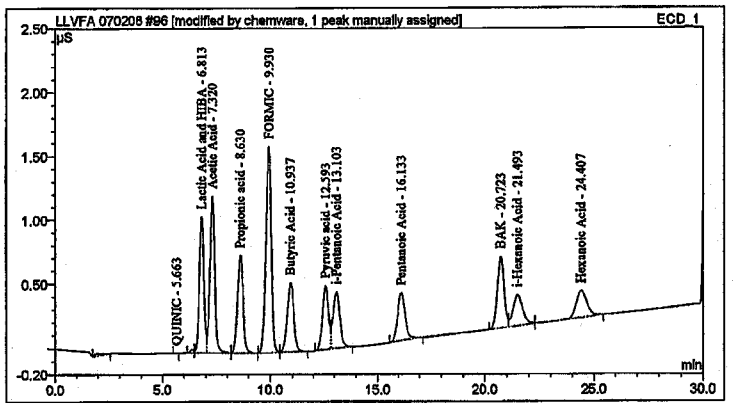
BOE-C6-0189023

MICROSEEPS

Sample Analysis Report

Sample Name:	LCS 070708	**Sequence No:**	96
Sequence Name:	LLVFA 070208	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	7/7/2008 7:05 PM	**Analytical Method:**	AM23G
System Operator:	chemware	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
2	QUINIC	5.663	0.000	0.001	BMB*	n.a.
4	Lactic Acid and HIBA	6.813	0.253	1.063	M ^	2.4471
5	Acetic Acid	7.320	0.319	1.221	M	2.3307
6	Propionic acid	8.630	0.229	0.757	MB	2.2258
7	FORMIC	9.930	0.478	1.609	BM	n.a.
8	Butyric Acid	10.937	0.186	0.531	MB	2.1429
9	Pyruvic acid	12.593	0.161	0.492	BM	2.1489
10	i-Pentanoic Acid	13.103	0.157	0.433	MB	2.1971
11	Pentanoic Acid	16.133	0.151	0.371	BMB	2.1374
12	BAK	20.723	0.193	0.557	BM	n.a.
13	i-Hexanoic Acid	21.493	0.122	0.240	M	2.1550
14	Hexanoic Acid	24.407	0.114	0.206	MB	1.9772

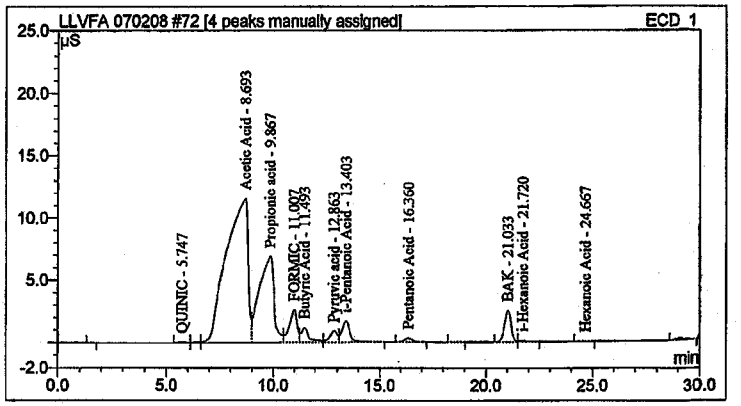


MICROSEEPS

Sample Analysis Report

Sample Name:	P0806295-01A	**Sequence No:**	72
Sequence Name:	LLVFA 070208	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	7/4/2008 2:10 PM	**Analytical Method:**	AM23G
System Operator:	chemware	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
2	QUINIC	5.747	0.028	0.064	BM	n.a.
4	Acetic Acid	8.693	13.523	11.594	M ^	95.7550
5	Propionic acid	9.867	5.569	6.878	M ^	57.4965
6	FORMIC	11.007	1.083	2.584	M	n.a.
7	Butyric Acid	11.493	0.504	1.141	M	5.6993
8	Pyruvic acid	12.863	0.349	0.890	M ^	4.1596
9	i-Pentanoic Acid	13.403	0.715	1.681	MB	9.5289
10	Pentanoic Acid	16.360	0.137	0.317	BMB	1.9491
12	BAK	21.033	0.849	2.490	BM	n.a.
13	i-Hexanoic Acid	21.720	0.034	0.074	MB	0.6618
14	Hexanoic Acid	24.667	0.007	0.016	BMB^	0.1810



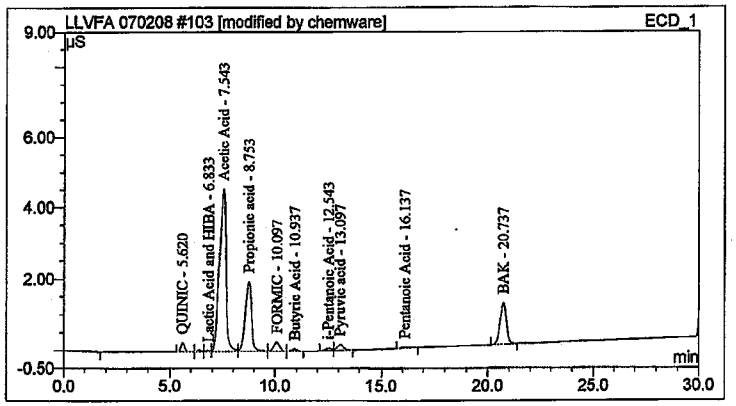
BOE-C6-0189024

MICROSEEPS

Sample Analysis Report

Sample Name:	P0806295-01A 10X	**Sequence No:**	103
Sequence Name:	LLVFA 070208	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	7/7/2008 11:53 PM	**Analytical Method:**	AM23G
System Operator:	chemware	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
2	QUINIC	5.620	0.053	0.254	BM	n.a.
4	Lactic Acid and HIBA	6.833	0.007	0.034	M	0.1566
5	Acetic Acid	7.543	1.706	4.563	M	12.3582
6	Propionic acid	8.753	0.671	1.945	M *	6.5030
7	FORMIC	10.097	0.086	0.260	MB*	n.a.
8	Butyric Acid	10.937	0.020	0.063	BMB	0.2776
9	i-Pentanoic Acid	12.543	0.024	0.070	BM	0.3682
10	Pyruvic acid	13.097	0.056	0.154	MB	0.8481
11	Pentanoic Acid	16.137	0.011	0.028	BMB	0.2080
12	BAK	20.737	0.388	1.145	BMB	n.a.

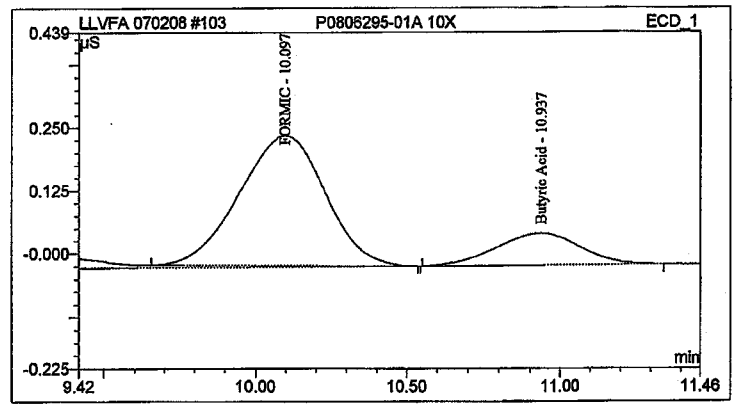


MICROSEEPS

Sample Analysis Report

Sample Name:	P0806295-01A 10X	**Sequence No:**	103
Sequence Name:	LLVFA 070208	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	7/7/2008 11:53 PM	**Analytical Method:**	AM23G
System Operator:	chemware	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
2	QUINIC	5.620	0.053	0.254	BM	n.a.
4	Lactic Acid and HIBA	6.833	0.007	0.034	M	0.1566
5	Acetic Acid	7.543	1.706	4.563	M	12.3582
6	Propionic acid	8.753	0.673	1.945	MB	6.5233
7	FORMIC	10.097	0.084	0.258	Rd	n.a.
8	Butyric Acid	10.937	0.020	0.063	BMB	0.2776
9	Pyruvic acid	12.543	0.024	0.070	BM	0.4084
10	i-Pentanoic Acid	13.097	0.056	0.154	MB	0.8133
11	Pentanoic Acid	16.137	0.011	0.028	BMB	0.2080
12	BAK	20.737	0.388	1.145	BMB	n.a.



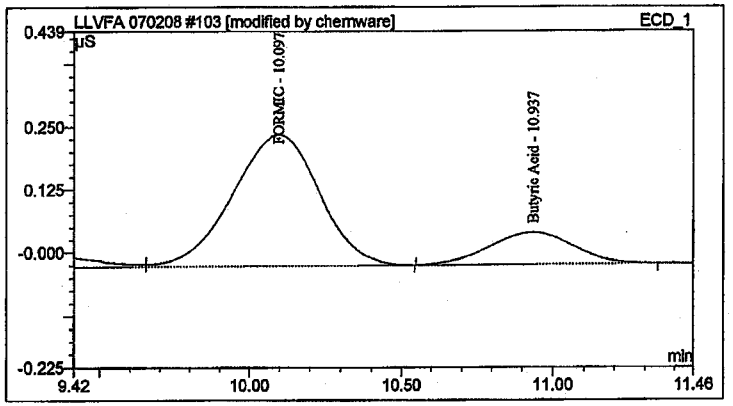
BOE-C6-0189025

MICROSEEPS

Sample Analysis Report

Sample Name:	P0806295-01A 10X	**Sequence No:**	103
Sequence Name:	LLVFA 070208	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	7/7/2008 11:53 PM	**Analytical Method:**	AM23G
System Operator:	chemware	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
2	QUINIC	5.620	0.053	0.254	BM	n.a.
4	Lactic Acid and HIBA	6.833	0.007	0.034	M	0.1566
5	Acetic Acid	7.543	1.706	4.563	M	12.3582
6	Propionic acid	8.753	0.671	1.945	M *	6.5030
7	FORMIC	10.097	0.086	0.260	MB*	n.a.
8	Butyric Acid	10.937	0.020	0.063	BMB	0.2776
9	i-Pentanoic Acid	12.543	0.024	0.070	BM	0.3682
10	Pyruvic acid	13.097	0.056	0.154	MB	0.8481
11	Pentanoic Acid	16.137	0.011	0.028	BMB	0.2080
12	BAK	20.737	0.388	1.145	BMB	n.a.

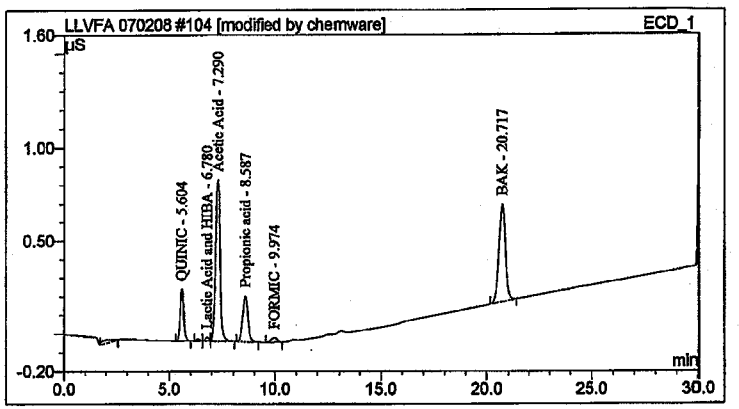


MICROSEEPS

Sample Analysis Report

Sample Name:	P0806295-01A 100X	**Sequence No:**	104
Sequence Name:	LLVFA 070208	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	7/8/2008 12:34 AM	**Analytical Method:**	AM23G
System Operator:	chemware	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
2	QUINIC	5.604	0.054	0.276	BMB	n.a.
4	Lactic Acid and HIBA	6.780	0.004	0.019	M	0.1214
5	Acetic Acid	7.290	0.213	0.868	MB	1.5606
6	Propionic acid	8.587	0.070	0.244	BMB	0.6952
7	FORMIC	9.974	0.008	0.024	BMB	n.a.
8	BAK	20.717	0.181	0.525	BMB	n.a.



BOE-C6-0189026

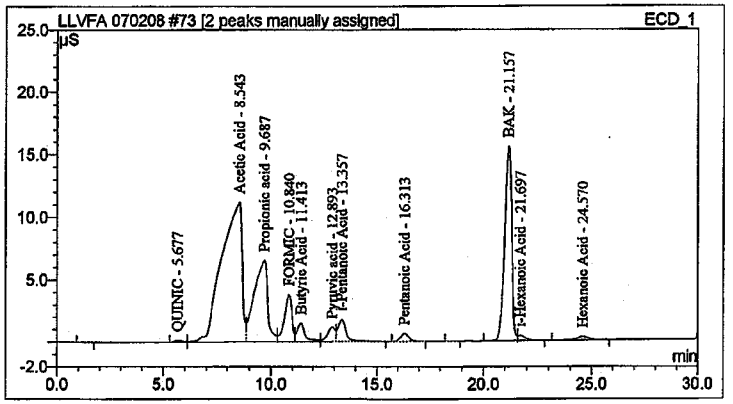
P0806295

MICROSEEPS

Sample Analysis Report

Sample Name:	P0806295-01A-MS	**Sequence No:**	73
Sequence Name:	LLVFA 070208	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	7/4/2008 2:51 PM	**Analytical Method:**	AM23G
System Operator:	chemware	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
2	QUINIC	5.677	0.066	0.156	BM ^	n.a.
3	Acetic Acid	8.543	12.104	11.201	M	85.9202
4	Propionic acid	9.687	4.851	6.557	M	49.5543
5	FORMIC	10.840	1.539	3.774	M	n.a.
6	Butyric Acid	11.413	0.627	1.471	M	7.0812
7	Pyruvic acid	12.893	0.481	1.168	M ^	5.4040
8	i-Pentanoic Acid	13.357	0.760	1.767	MB	10.1024
9	Pentanoic Acid	16.313	0.277	0.614	BMB	3.6373
11	BAK	21.157	5.828	15.542	BM	n.a.
12	i-Hexanoic Acid	21.697	0.157	0.389	MB	2.7433
13	Hexanoic Acid	24.570	0.181	0.267	BMB	3.0659



6.60 Build 1428 Page 1 of 1 current date: 7/8/2008 current time: 12:39 PM

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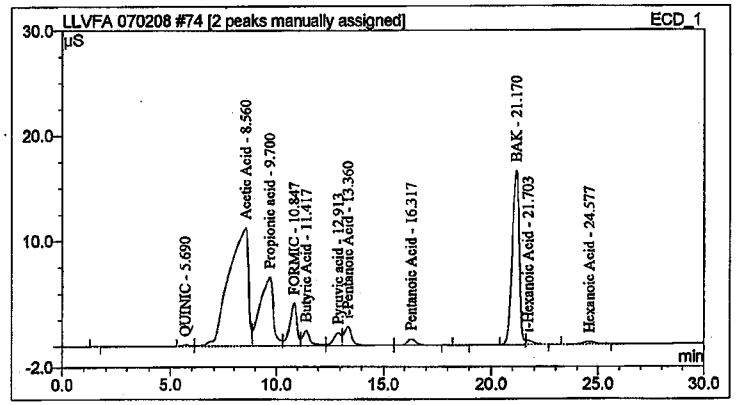
P0806295

MICROSEEPS

Sample Analysis Report

Sample Name:	P0806295-01A-MSD	**Sequence No:**	74
Sequence Name:	LLVFA 070208	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	7/4/2008 3:33 PM	**Analytical Method:**	AM23G
System Operator:	chemware	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
2	QUINIC	5.690	0.074	0.161	BM ^	n.a.
3	Acetic Acid	8.560	12.308	11.241	M	87.3386
4	Propionic acid	9.700	4.846	6.555	M	49.4967
5	FORMIC	10.847	1.623	4.070	M	n.a.
6	Butyric Acid	11.417	0.639	1.465	M	7.2087
7	Pyruvic acid	12.913	0.509	1.234	M ^	5.6536
8	i-Pentanoic Acid	13.360	0.795	1.792	M	10.5494
9	Pentanoic Acid	16.317	0.285	0.608	MB	3.9480
11	BAK	21.170	6.239	16.533	BM	n.a.
12	i-Hexanoic Acid	21.703	0.148	0.388	MB	2.5933
13	Hexanoic Acid	24.577	0.165	0.260	BMB	2.8009



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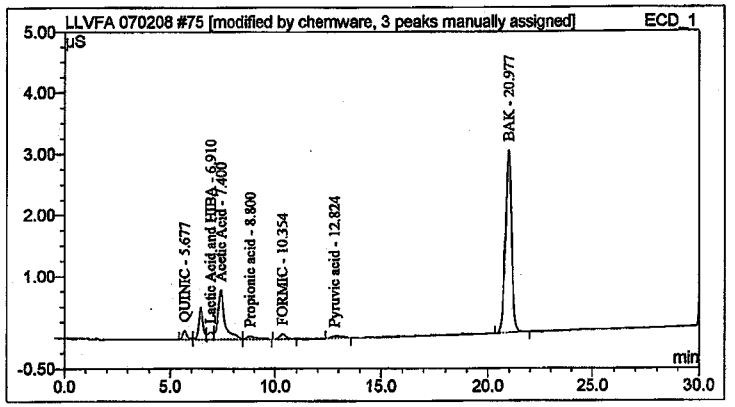
MICROSEEPS

Sample Analysis Report

Sample Name:	P0806295-02A	**Sequence No:**	75
Sequence Name:	LLVFA 070208	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	7/4/2008 4:14 PM	**Analytical Method:**	AM23G
System Operator:	chemware	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	5.677	0.034	0.141	BM ^	n.a.
3	Lactic Acid and HIBA	6.910	0.035	0.116	M *	0.4289
4	Acetic Acid	7.400	0.303	0.800	M *^	2.2165
5	Propionic acid	8.800	0.037	0.057	MB^	0.3825
6	FORMIC	10.354	0.031	0.081	BMB	n.a.
7	Pyruvic acid	12.824	0.021	0.035	BMB	0.3732
8	BAK	20.977	1.044	2.981	BMB	n.a.



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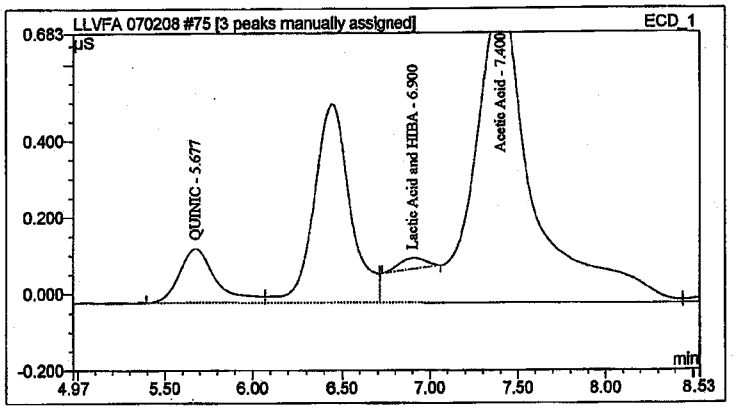
Sample Analysis Report

Sample Name:	P0806295-02A	**Sequence No:**	75
Sequence Name:	LLVFA 070208	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	7/4/2008 4:14 PM	**Analytical Method:**	AM23G
System Operator:	chemware	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	5.677	0.034	0.141	BM ^	n.a.
3	Lactic Acid and HIBA	6.900	0.005	0.028	Ru	0.1307
4	Acetic Acid	7.400	0.334	0.800	M ^	2.4358
5	Propionic acid	8.800	0.037	0.057	MB^	0.3825
6	FORMIC	10.354	0.031	0.081	BMB	n.a.
7	Pyruvic acid	12.824	0.021	0.035	BMB	0.3732
8	BAK	20.977	1.044	2.981	BMB	n.a.



BOE-C6-0189028

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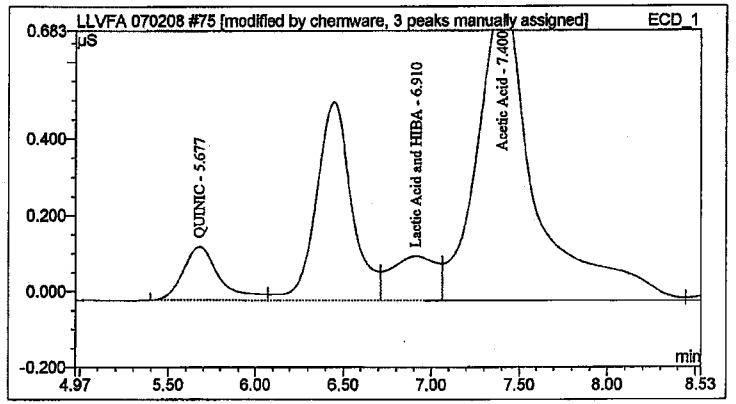
Sample Analysis Report

Sample Name:	P0806295-02A	**Sequence No:**	75
Sequence Name:	LLVFA 070208	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	7/4/2008 4:14 PM	**Analytical Method:**	AM23G
System Operator:	chemware	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	5.677	0.034	0.141	BM ^	n.a.
3	Lactic Acid and HIBA	6.910	0.035	0.116	M *	0.4289
4	Acetic Acid	7.400	0.303	0.800	M *^	2.2165
5	Propionic acid	8.800	0.037	0.057	MB^	0.3825
6	FORMIC	10.354	0.031	0.081	BMB	n.a.
7	Pyruvic acid	12.824	0.021	0.035	BMB	0.3732
8	BAK	20.977	1.044	2.981	BMB	n.a.



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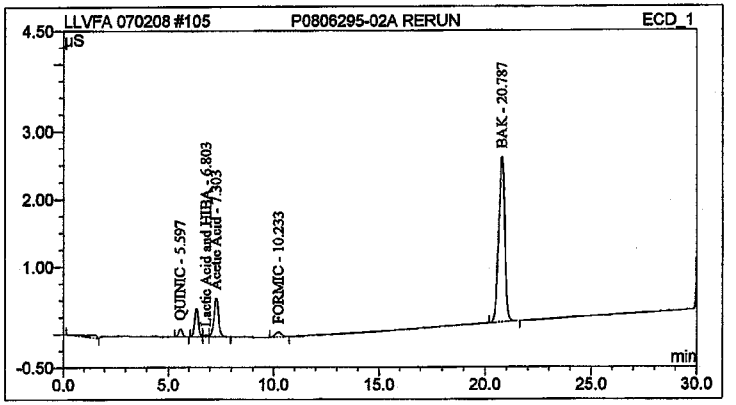
Sample Analysis Report

Sample Name:	P0806295-02A RERUN	**Sequence No:**	105
Sequence Name:	LLVFA 070208	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	7/8/2008 1:15 AM	**Analytical Method:**	AM23G
System Operator:	chemware	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
2	QUINIC	5.597	0.024	0.117	BMB	n.a.
4	Lactic Acid and HIBA	6.803	0.005	0.022	M	0.1352
5	Acetic Acid	7.303	0.148	0.573	MB	1.0928
6	FORMIC	10.233	0.025	0.071	BMB	n.a.
7	BAK	20.787	0.828	2.439	BMB	n.a.



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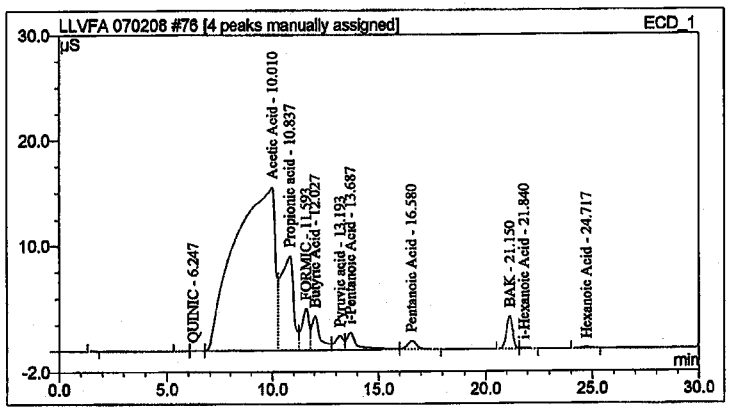
Sample Analysis Report

Sample Name:	P0806295-03A	**Sequence No:**	76
Sequence Name:	LLVFA 070208	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	7/4/2008 4:55 PM	**Analytical Method:**	AM23G
System Operator:	chemware	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
3	QUINIC	6.247	0.010	0.026	MB	n.a.
4	Acetic Acid	10.010	34.292	15.488	BM ^	234.4880
5	Propionic acid	10.837	6.144	8.973	M ^	63.9935
6	FORMIC	11.593	1.540	3.957	M ^	n.a.
7	Butyric Acid	12.027	1.507	3.223	M ^	16.8535
8	Pyruvic acid	13.193	0.605	1.359	M	6.4768
9	i-Pentanoic Acid	13.687	0.973	1.646	M	12.7932
10	Pentanoic Acid	16.580	0.418	0.821	MB	5.7088
11	BAK	21.150	1.058	3.122	BM	n.a.
12	i-Hexanoic Acid	21.840	0.037	0.084	MB	0.7114
13	Hexanoic Acid	24.717	0.059	0.114	BMB	1.0620

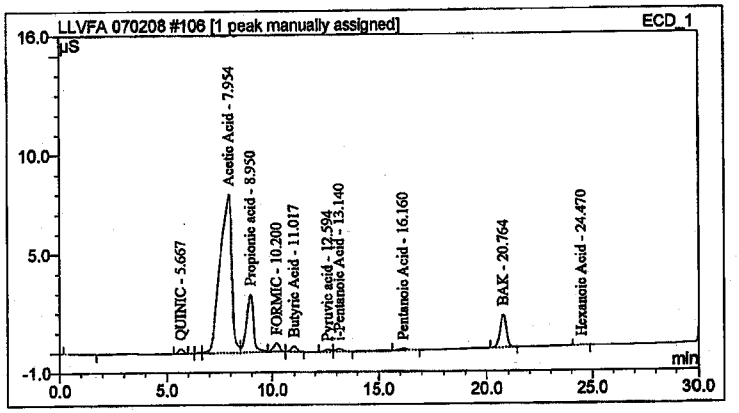


MICROSEEPS

Sample Analysis Report

Sample Name:	P0806295-03A 10X	**Sequence No:**	106
Sequence Name:	LLVFA 070208	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	7/8/2008 1:56 AM	**Analytical Method:**	AM23G
System Operator:	chemware	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
2	QUINIC	5.667	0.070	0.245	BM	n.a.
5	Acetic Acid	7.954	5.017	8.005	M	36.0808
6	Propionic acid	8.950	1.188	2.931	Mb	11.5648
7	FORMIC	10.200	0.129	0.411	Rd	n.a.
8	Butyric Acid	11.017	0.093	0.289	bMB	1.1003
9	Pyruvic acid	12.594	0.035	0.104	BM ^	0.5711
10	i-Pentanoic Acid	13.140	0.052	0.144	MB	0.7612
11	Pentanoic Acid	16.160	0.036	0.091	BMB	0.5518
12	BAK	20.764	0.565	1.650	BMB	n.a.
13	Hexanoic Acid	24.470	0.005	0.011	BMB	0.1463



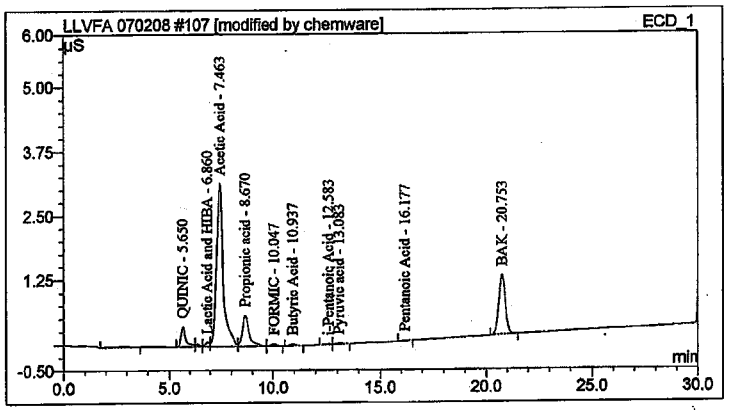
BOE-C6-0189030

MICROSEEPS

Sample Analysis Report

Sample Name:	P0806295-03A 100X	**Sequence No:**	107
Sequence Name:	LLVFA 070208	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	7/8/2008 2:37 AM	**Analytical Method:**	AM23G
System Operator:	chemware	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
2	QUINIC	5.650	0.102	0.382	BM *	n.a.
4	Lactic Acid and HIBA	6.860	0.020	0.080	M	0.2825
5	Acetic Acid	7.463	1.196	3.163	M *	8.6770
6	Propionic acid	8.670	0.224	0.595	M *	2.1733
7	FORMIC	10.047	0.015	0.045	MB	n.a.
8	Butyric Acid	10.937	0.011	0.031	BMB	0.1727
9	i-Pentanoic Acid	12.583	0.004	0.013	BM	0.1021
10	Pyruvic acid	13.083	0.007	0.017	MB	0.1726
11	Pentanoic Acid	16.177	0.004	0.011	BMB	0.1084
12	BAK	20.753	0.411	1.147	BMB	n.a.



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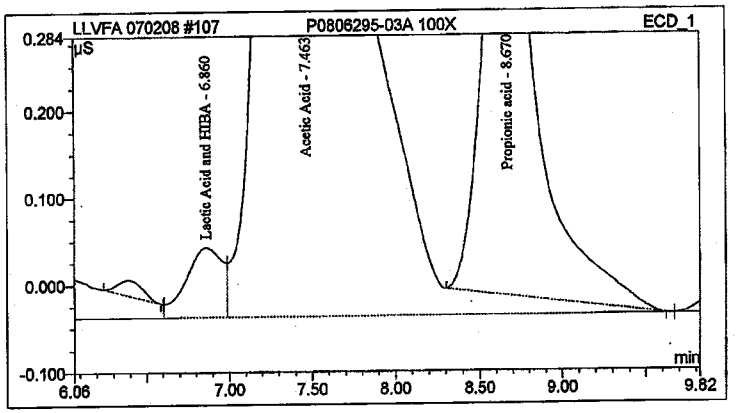
Sample Analysis Report

Sample Name:	P0806295-03A 100X	**Sequence No:**	107
Sequence Name:	LLVFA 070208	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	7/8/2008 2:37 AM	**Analytical Method:**	AM23G
System Operator:	chemware	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
2	QUINIC	5.650	0.111	0.382	BM	n.a.
4	Lactic Acid and HIBA	6.860	0.020	0.080	M	0.2825
5	Acetic Acid	7.463	1.216	3.163	M	8.8242
6	Propionic acid	8.670	0.203	0.573	Rd	1.9774
7	FORMIC	10.047	0.015	0.045	MB	n.a.
8	Butyric Acid	10.937	0.011	0.031	BMB	0.1727
9	Pyruvic acid	12.583	0.004	0.013	BM	0.1361
10	i-Pentanoic Acid	13.083	0.007	0.017	MB	0.1372
11	Pentanoic Acid	16.177	0.004	0.011	BMB	0.1084
12	BAK	20.753	0.411	1.147	BMB	n.a.



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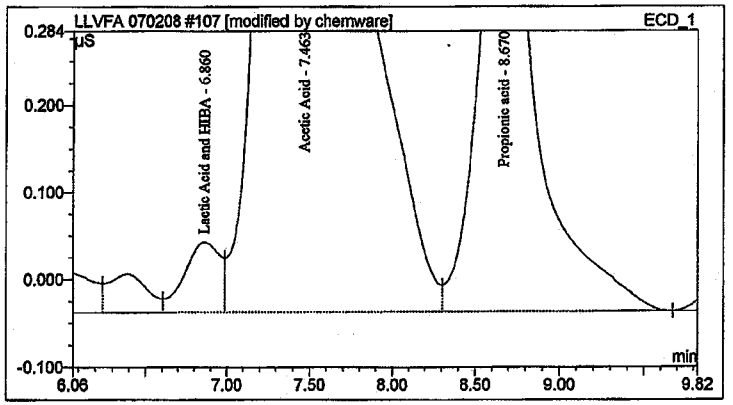
Sample Analysis Report

Sample Name:	P0806295-03A 100X	**Sequence No:**	107
Sequence Name:	LLVFA 070208	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	7/8/2008 2:37 AM	**Analytical Method:**	AM23G
System Operator:	chemware	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
2	QUINIC	5.650	0.102	0.382	BM *	n.a.
4	Lactic Acid and HIBA	6.860	0.020	0.080	M	0.2825
5	Acetic Acid	7.463	1.196	3.163	M *	8.6770
6	Propionic acid	8.670	0.224	0.595	M *	2.1733
7	FORMIC	10.047	0.015	0.045	MB	n.a.
8	Butyric Acid	10.937	0.011	0.031	BMB	0.1727
9	i-Pentanoic Acid	12.583	0.004	0.013	BM	0.1021
10	Pyruvic acid	13.083	0.007	0.017	MB	0.1726
11	Pentanoic Acid	16.177	0.004	0.011	BMB	0.1084
12	BAK	20.753	0.411	1.147	BMB	n.a.



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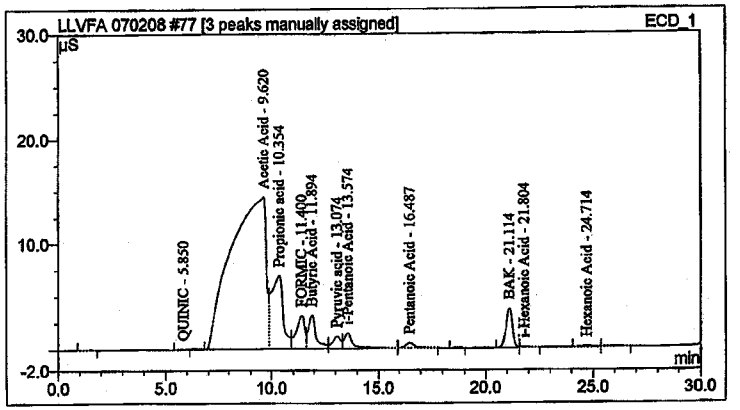
Sample Analysis Report

Sample Name:	P0806295-04A	**Sequence No:**	77
Sequence Name:	LLVFA 070208	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	7/4/2008 5:36 PM	**Analytical Method:**	AM23G
System Operator:	chemware	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
2	QUINIC	5.850	0.009	0.022	BMB	n.a.
3	Acetic Acid	9.620	27.318	14.440	BM ^	188.9265
4	Propionic acid	10.354	4.461	6.961	M	45.3032
5	FORMIC	11.400	1.410	3.135	M ^	n.a.
6	Butyric Acid	11.894	1.358	3.141	M	15.2011
7	Pyruvic acid	13.074	0.480	1.134	M ^	5.3993
8	i-Pentanoic Acid	13.574	0.739	1.430	M	9.8424
9	Pentanoic Acid	16.487	0.241	0.476	MB	3.3543
11	BAK	21.114	1.264	3.698	BM	n.a.
12	i-Hexanoic Acid	21.804	0.030	0.069	MB	0.6051
13	Hexanoic Acid	24.714	0.031	0.060	BM	0.5923



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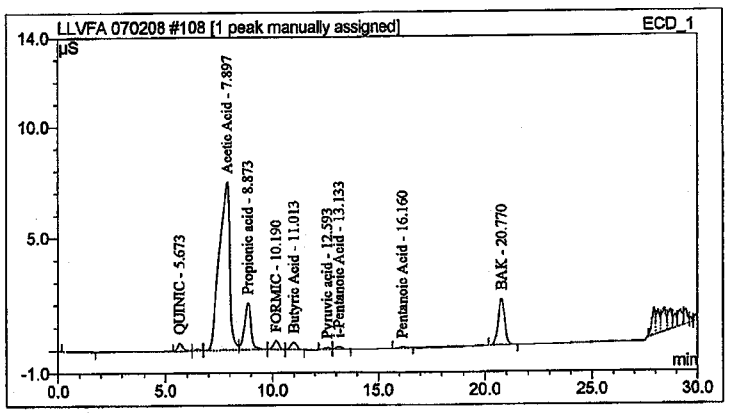
P0806295

MICROSEEPS

Sample Analysis Report

Sample Name:	P0806295-04A 10X	**Sequence No:**	108
Sequence Name:	LLVFA 070208	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	7/8/2008 3:18 AM	**Analytical Method:**	AM23G
System Operator:	chemware	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
2	QUINIC	5.673	0.097	0.349	BM	n.a.
4	Acetic Acid	7.897	4.322	7.500	M	31.1272
5	Propionic acid	8.873	0.734	2.050	MB	7.1105
6	FORMIC	10.190	0.119	0.376	BMB	n.a.
7	Butyric Acid	11.013	0.108	0.331	BMB	1.2693
8	Pyruvic acid	12.593	0.031	0.092	BM ^	0.5116
9	i-Pentanoic Acid	13.133	0.048	0.133	MB	0.7036
10	Pentanoic Acid	16.160	0.019	0.050	BMB	0.3149
11	BAK	20.770	0.696	2.010	BMB	n.a.



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P0806295

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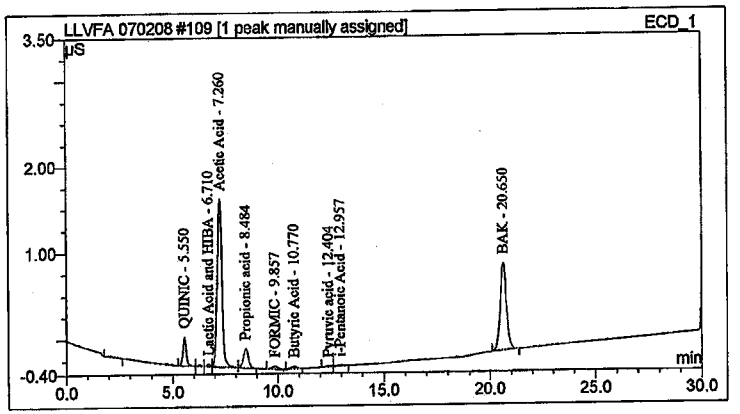
Sample Analysis Report

Sample Name:	P0806295-04A 100X	**Sequence No:**	109
Sequence Name:	LLVFA 070208	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	7/8/2008 4:00 AM	**Analytical Method:**	AM23G
System Operator:	chemware	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
2	QUINIC	5.550	0.065	0.329	BMB	n.a.
4	Lactic Acid and HIBA	6.710	0.005	0.028	BM	0.1352
5	Acetic Acid	7.260	0.510	1.940	MB	3.7160
6	Propionic acid	8.484	0.060	0.218	BMB	0.6051
7	FORMIC	9.857	0.011	0.031	BMB	n.a.
8	Butyric Acid	10.770	0.008	0.025	BMB	0.1466
9	Pyruvic acid	12.404	0.002	0.008	BM ^	0.1101
10	i-Pentanoic Acid	12.957	0.004	0.010	MB	0.0947
11	BAK	20.650	0.353	1.006	BMB	n.a.



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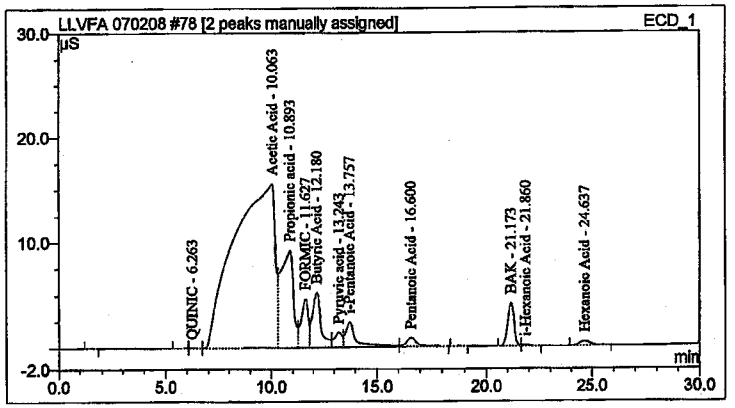
Sample Analysis Report

Sample Name:	P0806295-05A	**Sequence No:**	78
Sequence Name:	LLVFA 070208	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	7/4/2008 6:17 PM	**Analytical Method:**	AM23G
System Operator:	chemware	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
3	QUINIC	6.263	0.008	0.022	MB	n.a.
4	Acetic Acid	10.063	34.929	15.559	bM ^	238.6035
5	Propionic acid	10.893	6.224	9.162	M	64.9092
6	FORMIC	11.627	1.784	4.599	M	n.a.
7	Butyric Acid	12.180	2.548	5.162	M	28.2823
8	Pyruvic acid	13.243	0.595	1.377	M ^	6.3940
9	i-Pentanoic Acid	13.757	1.353	2.353	M	17.4468
10	Pentanoic Acid	16.600	0.446	0.834	MB	6.0707
12	BAK	21.173	1.391	4.078	BM	n.a.
13	i-Hexanoic Acid	21.860	0.035	0.080	MB	0.6895
14	Hexanoic Acid	24.637	0.236	0.409	BMB	3.9191

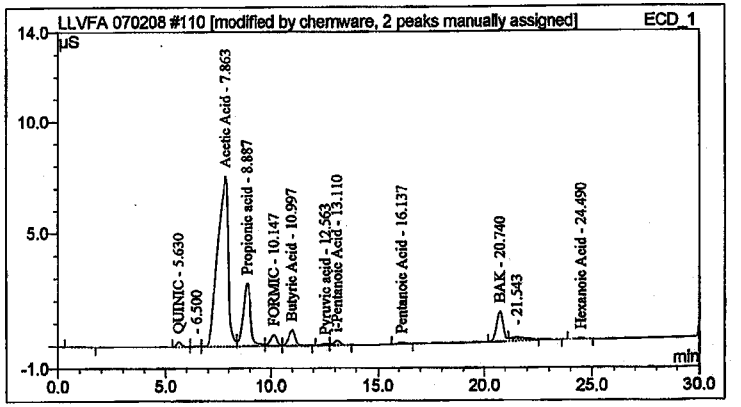


MICROSEEPS

Sample Analysis Report

Sample Name:	P0806295-05A 10X	**Sequence No:**	110
Sequence Name:	LLVFA 070208	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	7/8/2008 4:41 AM	**Analytical Method:**	AM23G
System Operator:	chemware	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
2	QUINIC	5.630	0.059	0.222	BM	n.a.
4	Acetic Acid	7.863	4.422	7.587	M	31.8429
5	Propionic acid	8.887	1.103	2.790	M *	10.7226
6	FORMIC	10.147	0.182	0.493	M *	n.a.
7	Butyric Acid	10.997	0.250	0.689	MB	2.8584
8	Pyruvic acid	12.563	0.027	0.080	BM	0.4543
9	i-Pentanoic Acid	13.110	0.076	0.209	MB	1.0901
10	Pentanoic Acid	16.137	0.029	0.076	BMB	0.4580
11	BAK	20.740	0.579	1.324	BMB	n.a.
13	Hexanoic Acid	24.490	0.018	0.036	BMB	0.3736



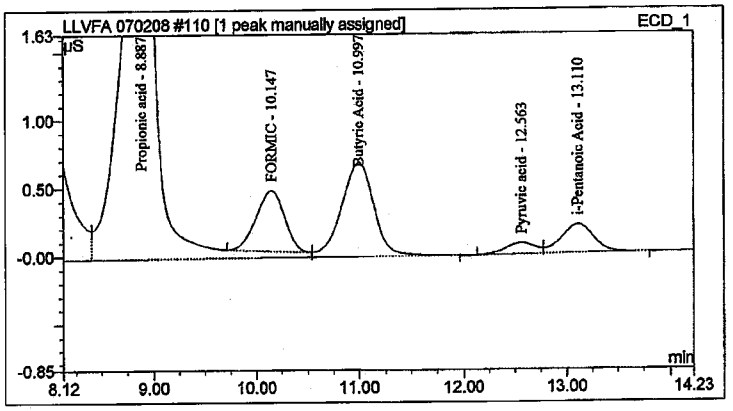
BOE-C6-0189034

MICROSEEPS

Sample Analysis Report

Sample Name:	P0806295-05A 10X	**Sequence No:**	110
Sequence Name:	LLVFA 070208	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	7/8/2008 4:41 AM	**Analytical Method:**	AM23G
System Operator:	chemware	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
2	QUINIC	5.630	0.059	0.222	BM	n.a.
4	Acetic Acid	7.863	4.422	7.587	M	31.8429
5	Propionic acid	8.887	1.142	2.790	M	11.1078
6	FORMIC	10.147	0.143	0.446	Rd	n.a.
7	Butyric Acid	10.997	0.250	0.689	MB	2.8584
8	Pyruvic acid	12.563	0.027	0.080	BM	0.4543
9	i-Pentanoic Acid	13.110	0.076	0.209	MB	1.0901
10	Pentanoic Acid	16.137	0.029	0.076	BMB	0.4580
11	BAK	20.740	0.579	1.324	BMB	n.a.
12	i-Hexanoic Acid	21.543	0.043	0.065	Rd	0.8147
13	Hexanoic Acid	24.490	0.018	0.036	BMB	0.3736

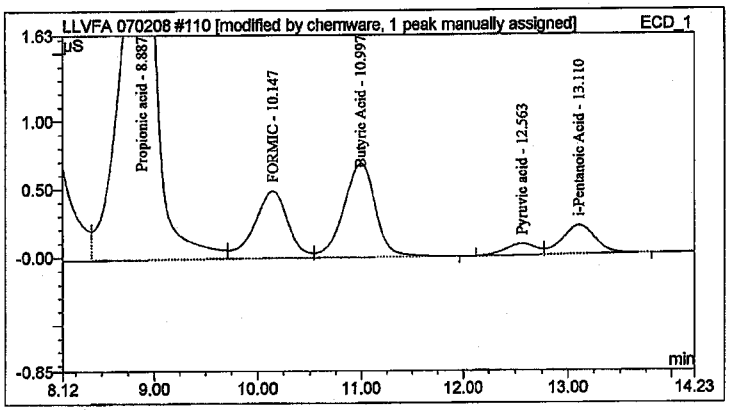


MICROSEEPS

Sample Analysis Report

Sample Name:	P0806295-05A 10X	**Sequence No:**	110
Sequence Name:	LLVFA 070208	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	7/8/2008 4:41 AM	**Analytical Method:**	AM23G
System Operator:	chemware	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
2	QUINIC	5.630	0.059	0.222	BM	n.a.
4	Acetic Acid	7.863	4.422	7.587	M	31.8429
5	Propionic acid	8.887	1.103	2.790	M *	10.7226
6	FORMIC	10.147	0.182	0.493	M *	n.a.
7	Butyric Acid	10.997	0.250	0.689	MB	2.8584
8	Pyruvic acid	12.563	0.027	0.080	BM	0.4543
9	i-Pentanoic Acid	13.110	0.076	0.209	MB	1.0901
10	Pentanoic Acid	16.137	0.029	0.076	BMB	0.4580
11	BAK	20.740	0.579	1.324	BMB	n.a.
12	i-Hexanoic Acid	21.543	0.043	0.065	Rd	0.8147
13	Hexanoic Acid	24.490	0.018	0.036	BMB	0.3736



BOE-C6-0189035

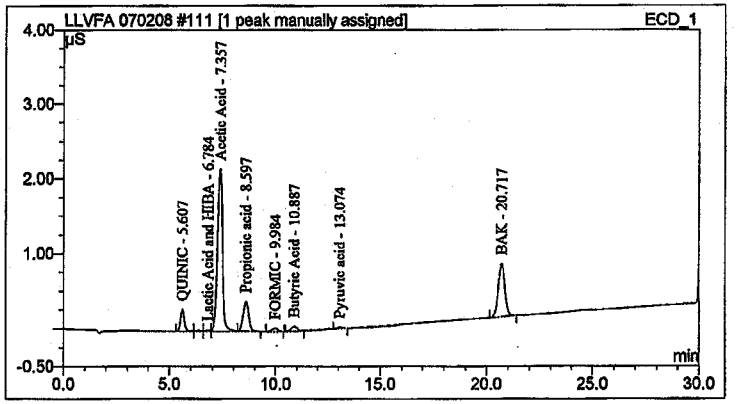
P0806295

MICROSEEPS

Sample Analysis Report

Sample Name:	P0806295-05A 100X	**Sequence No:**	111
Sequence Name:	LLVFA 070208	**Instrument ID:**	SEMIVOL13
Program Method:	PWM070716AA	**Injection vol.:**	1.0
Quantitation Method:	pat mm red01	**Dilution Factor:**	1.0000
Date Time Collected:	7/8/2008 5:22 AM	**Analytical Method:**	AM23G
System Operator:	chemware	**Sample Amt.:**	1.0000

Peak No.	Component Name	Retention Time	Area µS*min	Height µS	Type	Amount PPM
1	QUINIC	5.607	0.059	0.287	BM	n.a.
3	Lactic Acid and HIBA	6.784	0.004	0.017	M ^	0.1183
4	Acetic Acid	7.357	0.602	2.166	MB	4.3820
5	Propionic acid	8.597	0.112	0.390	Rd	1.0980
6	FORMIC	9.984	0.014	0.041	BMB	n.a.
7	Butyric Acid	10.887	0.021	0.062	BMB	0.2855
8	Pyruvic acid	13.074	0.005	0.017	BMB	0.1514
9	BAK	20.717	0.246	0.705	BMB	n.a.



North Wind

Boeing Site IRF1567 Quantitative PCR Analytical Summary

30 June, 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 Boeing Site IRF1567, 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 Boeing Site IRF1567 samples and volume filtered for DNA extraction.

Sample ID	Matrix–Date Sampled	Condition Received/ Observations	Volume Filtered (L)
IRF1567-01	Groundwater–06/18/2008	4°C, bottles intact	0.25
IRF1567-02	Groundwater–06/18/2008	4°C, bottles intact	1.00
IRF1567-03	Groundwater–06/18/2008	4°C, bottles intact	0.75
IRF1567-04	Groundwater–06/18/2008	4°C, bottles intact	0.30
IRF1567-05	Groundwater–06/18/2008	4°C, bottles intact	1.00

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-C6-0189036

North Wind

Methods:

DNA Extraction: For groundwater shipped to the laboratory, between 250mL and 1.0L of groundwater was filtered using sterile 0.2- m 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 L 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- L PCR reaction included 0.4 mg mL-1 molecular-grade BSA (Sigma Chemicals), 5X PCR buffer (Promega), 0.5 M each forward and reverse primer (Invitrogen), 1 U Taq DNA polymerase (Promega), 0.2 mM each dNTP (Invitrogen), 1 L 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 L of the DNA extraction. The reporting limit is 50 gene copies per L 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 BHQ quencher (Biosearch Technologies). For the *bvcA* gene probe, a Cy5 label is used on the 5-foot end and for the *vcrA* gene probe, 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.

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 IRF1567 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 Boeing Site IRF1567 samples.

Sample ID	DNA (ng/L groundwater)	Universal PCR/Nested QPCR#	*Dehalococcoides* 16S rRNA (copy/L groundwater)*	*Dehalococcoides tceA* (copy/L groundwater)*	*Dehalococcoides bvcA* (copy/L groundwater)*	*Dehalococcoides vcrA* (copy/L groundwater)*
IRF1567-01	17324	+/NA	7.71E+08 ± 8.47E+07	6.58E+08 ± 3.01E+07	1.54E+07 ± 2.05E+06	1.51E+06 ± 2.45E+05
IRF1567-02	1416	+/NA	2.31E+08 ± 1.14E+07	2.21E+08 ± 2.02E+07	3.41E+06 ± 4.00E+05	ND
IRF1567-03	2479	+/NA	1.47E+09 ± 1.97E+08	8.86E+08 ± 7.39E+07	2.14E+08 ± 3.11E+07	ND
IRF1567-04	27073	+/NA	1.96E+09 ± 1.31E+08	5.59E+08 ± 7.11E+07	2.26E+08 ± 3.82E+07	ND
IRF1567-05	3011	+/NA	6.65E+08 ± 4.61E+07	4.87E+08 ± 3.59E+07	3.41E+07 ± 5.33E+06	ND

*: indicates that the value presented is below the reporting limit (50 gene copies/ L of DNA extraction).

#: 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. 'N/A' (not applicable) means the analysis wasn't performed.

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 was detected in all the samples above the reporting limit of 50 gene copies/ L of DNA extraction. Reductase genes *tceA* and *bvcA* were detected above the reporting limit in all the samples. Reductase gene *vcrA* was detected above reporting limit in IRF1567-01 but was not found above the minimum detection limit of 2 gene copies/ L of DNA extraction in any other sample.

BOE-C6-0189037

IRF1567

Boeing CoC No. AVO20080618

AVOCET ENVIRONMENTAL, INC.

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

Sheet 1 of 1

CHAIN OF CUSTODY RECORD

Project Information:

Site Name	Boeing Former C-6 Facility, Monthly WDR Sampling, June 2008
Site Address	Los Angeles, CA
Project No.	1155.006
Project Manager	Michael Rendina
Sampled By	Brian Barsumian
Turn-Around-Time	Standard TAT

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 EPA 8260B	TOC EPA 9060 Modified	Volatile Fatty Acids IC Method 8M23G (Microseeps)	Dissolved Hydrocarbon Gases (DHGs) Methane, Ethane, Ethene - RSK 175	Alkalinity EPA 310.1	Anions (NO3, NO2, Cl, SO4) EPA 300.3	DHC PCR (NorthWind) 24 HR HTI	Comments
EWB002_WG20080618_01	6/18/08	0804	Water	12		X	X	X	X	X	X	X	
AW0055UB_WG20080618_01		0905	Water	12		X	X	X	X	X	X	X	
AW0055UB_WG20080618_02		0905	Water	3		X							
AW0075UB_WG20080618_01		1140	Water	12		X	X	X	X	X	X	X	
AW0077UB_WG20080618_01		1010	Water	12		X	X	X	X	X	X	X	
AW0076UB_WG20080618_01		1310	Water	12		X	X	X	X	X	X	X	
~~TB_WG20080618_0001~~	1		Water	3		X							
TB_AVO20080618_01													

AR 6/18/08

Relinquished by

Printed Name:	Brian Barsumian	Date: 6/18/08
Signature:	Brian Barsumian	Time: 1405
Printed Name:	Vince Padilla	Date: 6/18/08
Signature:	Vince Padilla	Time: 1405
Printed Name:		Date:
Signature:		Time:

Company

Avocet Environmental, Inc.

Received by

Printed Name:	Vince Padilla	Date: 6/18/08
Signature:	Vince Padilla	Time: 1405
Printed Name:	Matt Carson	Date: 6-18-08
Signature:	Matt Carson	Time: 1445
Printed Name:		Date:
Signature:		Time:

Company

TA Irvine

Sample Receipt

Total Containers

Temperature °C 5.0/5.1 °F

COC Seal (Y/N)

Billing Information

Bill To: Michael Rendina, P.G.
AVOCET ENVIRONMENTAL, INC.
16 Technology Drive, Suite 154
Irvine, CA 92618-2327

Special Instructions

DHC PCR Analyses require overnight delivery to NorthWind in Pittsburgh, PA
Primary DHG analyses will continue to be analyzed by ATL
Please bill to Avocet. Please report electronically in accordance with Boeing standards. If any questions, please call Mike Rendina @ (949) 296 0977 Ext.103

#102

North Wind

Boeing Site IRF1567 Quantitative PCR Analytical Summary

30 June, 2008

Overview:

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IRF1567-04	Groundwater–06/18/2008	4°C, bottles intact	0.75
IRF1567-05	Groundwater–06/18/2008	4°C, bottles intact	0.30
IRF1567-06	Groundwater–06/18/2008	4°C, bottles intact	1.00

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.

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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 BHQ quencher (Biosearch Technologies). For the *bvcA* gene probe, a Cy5 label is used on the 5-foot end and for the *vcrA* gene probe, 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.

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IRF1567-01	17324	+/NA	7.71E+08 ± 8.47E+07	6.58E+08 ± 3.01E+07	1.54E+07 ± 2.05E+06	1.51E+06 ± 2.45E+05
IRF1567-02	1416	+/NA	2.31E+08 ± 1.14E+07	2.21E+08 ± 2.02E+07	3.41E+06 ± 4.00E+05	ND
IRF1567-04	2479	+/NA	1.47E+09 ± 1.97E+08	8.86E+08 ± 7.39E+07	2.14E+08 ± 3.11E+07	ND
IRF1567-05	27073	+/NA	1.96E+09 ± 1.31E+08	5.59E+08 ± 7.11E+07	2.26E+08 ± 3.82E+07	ND
IRF1567-06	3011	+/NA	6.65E+08 ± 4.61E+07	4.87E+08 ± 3.59E+07	3.41E+07 ± 5.33E+06	ND

*: indicates that the value presented is below the reporting limit (50 gene copies/ µL of DNA extraction).

#: 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. 'N/A' (not applicable) means the analysis wasn't performed.

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The *Dehalococcoides* (DHC) 16s rRNA gene was detected in all the samples above the reporting limit of 50 gene copies/µL of DNA extraction. Reductase genes *tceA* and *bvcA* were detected above the reporting limit in all the samples. Reductase gene *vcrA* was detected above reporting limit in IRF1567-01 but was not found above the minimum detection limit of 2 gene copies/µL of DNA extraction in any other sample.

BOE-C6-0189039

APPENDIX C

BOE-C6-0189040

Appendix C

IDW Manifests

AVOCET
ENVIRONMENTAL, INC.

Please 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
	CAL 000265003		888-423-6080	004030815 JJK

5. Generator's Name and Mailing Address
Boeing Realty Corporation
4501 E. Conant Street
Long Beach, CA 90808
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: CAR000143338

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
Crosby & Overton
1610 W 17th Street
Long Beach, CA 90813
Facility's Phone: 562-432-6445
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	2157	G	135
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
Wear appropriate PPE while handling. Weights or volumes are approximate.
Job#28003-3 Profile#07459

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: S. M. Stavile
Signature: SMStavile
Month 05 Day 21 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 05 Day 21 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: Juan Calcedo
Signature: [signature]
Month 5 Day 23 Year 08

GENERATOR / INT'L / TRANSPORTER / DESIGNATED FACILITY

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

TRANSPORTER'S COPY

BOE-C6-0189042

Please 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
	CAL000255053		800-423-6020	004030816 JJK

5. Generator's Name and Mailing Address
Boeing Realty Corporation
4501 E. Conant Street
Long Beach, CA 90808
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: CAR000148339

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
Crosby & Overton
1610 W 17th Street
Long Beach, CA 90813
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	1169	G	135
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
Wear appropriate PPE while handling. 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: S. M. Stavale
Signature: [signature]
Month 05 Day 23 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 05 Day 23 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: Juan Calcedo
Signature: [signature]
Month 05 Day 23 Year 08

GENERATOR / TRANSPORTER INTL / DESIGNATED FACILITY

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

TRANSPORTER'S COPY

BOE-C6-0189043