AVOCET
ENVIRONMENTAL, INC.

August 22, 2008 Project No. 1155.006

Ms. Jennifer L. Wiley, PG, CEM
THE BOEING COMPANY
Environment, Health & Safety – Environmental Remediation
4501 Conant Street
Long Beach, California 90808

Field Data Report
August 2008 Groundwater Sampling
Building 1/36 WDR Quarterly Monitoring and Building 2 WDR Month 1 Monitoring
Waste Discharge Requirements Order No. R4-2007-0040
Boeing Corporate Real Estate Former C-6 Facility
Los Angeles, California

Dear Ms. Wiley:

This report has been prepared by Avocet Environmental, Inc. (Avocet) to summarize and present the field data collected during the August 2008 groundwater monitoring event at the Boeing Corporate Real Estate (BCRE) Former C-6 Facility in Los Angeles, California. The August 2008 monitoring included sampling for the Building 1/36 Waste Discharge Requirements (WDR) and Building 2 WDR programs. The monitoring was conducted pursuant to and in accordance with the following:

Avocet Environmental, Inc., July 31, 2008, Technical Memorandum, August 2008 WDR Sampling and Analysis Plan Month 1 Monitoring - Building 2 Area and Additional Monitoring – Building 1/36, Boeing Corporate Real Estate Former C-6 Facility, Los Angeles, California (Attachment 1).

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).

Avocet Environmental, Inc., February 4, 2008, 2008 Groundwater Monitoring Work Plan, Boeing Former C-6 Facility, 19503 South Normandie Avenue, Los Angeles, California.

Field activities performed during the August 2008 monitoring event are discussed in the following sections. Figures 1 and 2 (Attachment 1) present the locations of the groundwater monitoring wells included in the programs.

16 Technology Drive, Suite 154 ▪ Irvine, California 92618-2327
Phone 949.296.0977 ▪ Fax 949.296.0978
www.avocetenv.com

GROUNDWATER SAMPLING ACTIVITIES

All 13 wells scheduled for water level measurement were gauged for depth to water on August 5, 2008 using a Solinst electronic water level sounder. The wells were also inspected for any damage or missing materials. All wells were in good condition, but most Building 1/36 WDR wells were missing the bolts that secure the lids. The wells are frequently accessed during the pilot test and it is suspected that the bolts were temporarily removed by the remediation contractor. The pump in extraction well WCC_06S was removed for maintenance by the remediation contractor shortly prior to sampling and the well was purged for sampling using portable low-flow equipment.

The four Building 2 area WDR wells were purged and sampled on August 5, 2008 and the nine Building 1/36 area WDR wells were purged and sampled on August 5 through 7, 2008. All of the wells were purged for sampling using the low-flow (~0.2 liters/minute) method and a QED MP20 flow-through cell. Wells WCC_06S and MWB006 were sampled with a portable pump and dedicated tubing, while all other wells were sampled with dedicated pumps. Ferrous iron testing was performed in all wells using a HACH DR/890 Colorimeter. The field instruments were calibrated prior to the event and the calibration data sheets are included in Attachment 2. Field data forms are included in Attachment 2.

At the completion of purging, groundwater samples were collected in laboratory supplied containers, properly labeled, identified on the chain-of-custody, and submitted to TestAmerica Laboratory, an appropriately certified environmental testing laboratory located in Irvine, California. A normal 10-day turn-around time was requested for the lab analyses. For the WDR wells, groundwater samples were analyzed for the following:

- Volatile organic compounds (VOCs) by EPA Method 8260B,
- Total organic carbon (TOC) by EPA Method 9060 (for the 4 Building 2 wells, and MWB006),
- Volatile fatty acids (VFAs) by IC Method 8M23G (subcontracted by TestAmerica to Microseeps, Inc., Pittsburg, PA) (for the 4 Building 2 wells, and MWB006),
- Dissolved gases (ethane, ethene, and methane) by RSK 175 (subcontracted by TestAmerica to Air Technology Laboratory, Inc., City of Industry, CA),
- Dissolved minerals (sulfate, nitrate, nitrite, and chloride) by EPA Method 300 Series (for the 4 Building 2 wells, and MWB006),
- Total Alkalinity by EPA Method 310 (for the 4 Building 2 wells, and MWB006),
- Quantitative polymerase chain reaction (qPCR) analysis for DHC 16S rRNA gene and functional genes tceA, bvcA, and vcrA (subcontracted by TestAmerica to North Wind, Inc., Pocatello, ID), and
- Total dissolved solids (TDS) by EPA Method 160.1 (for MWB006 only).

Purge water (approximately 59 liters) was placed in an appropriately labeled 55-gallon drum located adjacent to the treatment compound. The analytical results will be used to profile the purge water for transport to an appropriate off-site facility for treatment and disposal.

Management, containerization, staging, profiling, and transportation will be conducted in accordance with procedures established by BCRE.

If you have any questions regarding this report or require additional information, please do not hesitate to call.

Respectfully submitted,

AVOCET ENVIRONMENTAL, INC.

Michael A. Rendina

Michael A. Rendina, C.Hg.
Principal

MAR:sh
Attachments:
Attachment 1: August 2008 Groundwater Sampling and Analysis Plan
Attachment 2: Field Data Forms

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Attachment 1

August 2008 Groundwater Sampling and Analysis Plan

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July 31, 2008 Project No. 1155.006

Ms. Jennifer Wiley, P.G. (via electronic mail only)
THE BOEING COMPANY
Environment, Health & Safety –
Environmental Remediation
4501 East Conant Street, M/C D851-0097
Long Beach, California 90808

Technical Memorandum
August 2008 WDR Sampling and Analysis Plan
Month 1 Monitoring - Building 2 Area and Additional Monitoring – Building 1/36
Waste Discharge Requirements Order No. R4-2007-0040
Boeing Corporate Real Estate Former C-6 Facility
Los Angeles, California

Dear Ms. Wiley:

This memorandum has been prepared by Avocet Environmental, Inc. (Avocet) and presents the sampling and analysis plan (SAP) for the August 2008 required monitoring at the Former Building 2 and Building 1/36 Areas of Boeing Corporate Real Estate's (CRE's) Former C-6 Facility in Los Angeles, California. This monitoring is being conducted pursuant to and in accordance with California Regional Water Quality Control Board, Los Angeles Region (LARWQCB) *Approval of Revised Monitoring and Reporting Program CI-9310, Individual Waste Discharge Requirements (WDR) Order No. R4-2007-0040* (the WDR Order) issued February 15, 2008. Additional monitoring in the former Building 1/36 area is not required by the WDR, but is necessary to gather required additional data. This memorandum discusses the ground water monitoring activities to be conducted and the analyses to be performed as pertains to the WDR Order. Additional details are provided in the *2008 Groundwater Monitoring Work Plan* (the Work Plan; Avocet, February 4, 2008).

Field Activities

The details of the Building 2 WDR and additional Building 1/36 groundwater monitoring programs during August of 2008 are presented in tables 1 and 2 respectively. Maps showing the well locations are provided in Figures 1 and 2. Collectively the two events call for fluid level measurements and sample collection from 13 wells, as follows:

Month 1 Building 2 WDR Monitoring - In accordance with the WDR Order, four wells are to be monitored at the Former Building 2 area. These four wells consist of the four Group B Wells (CMW026, IRZCMW002, IRZCMW003, and MWC024) located within the treatment zone. Each of these wells will be gauged for water level and sampled. A list of the WDR wells to be

16 Technology Drive, Suite 154 ▪ Irvine, California 92618-2327
Phone 949.296.6977 ▪ Fax 949.296.6978
www.avocetenv.com

monitored (and not monitored), broken out by Group, is provided in Table 1. A map showing the well locations is provided in Figure 1.

Additional Building 1/36 Monitoring – In order to gather additional data, nine wells are to be monitored at the Former Building 1/36 area. These nine wells consist of the seven group B Wells (AW0075UB, AW0076UB, AW0077UB, EWB002, AW0073C, WCC_06S, and AW0074UB) the Group D Well (AW0055UB) and Well MWB006 which is being added to the program as a Group D Well. Each of these wells will be gauged for water level and sampled. A list of the WDR wells to be monitored (and not monitored), broken out by Group, is provided in Table 2. A map showing the well locations is provided in Figure 2.

The scope of work will include all tasks associated with collecting the field measurements and laboratory samples required to comply with the WDR Order. In brief, these activities will include water level measurements, groundwater well purging and sampling using low-flow methods, and sample analyses. Additional activities such as pre-field documentation, waste management, and reporting are addressed in the Work Plan. Overall, the ground water monitoring activities associated with the WDR Order are as follows:

- Prior to any ground water disturbance, depth to water measurements will be taken from each of the thirteen wells using a Solinst (or equivalent) well sounder.
- Groundwater samples will be collected from thirteen wells during the August 2008 monitoring event (Table 1). Prior to sampling, the wells will be purged using low-flow methods to assure representative samples are collected from the formation. During purging, the flow rate at each location will be maintained between 0.1 and 0.5 L/min, dependent on site-specific and well-specific factors as drawdown is not to exceed 0.3 feet in any well.
- During well purging, biogeochemical parameters including pH, temperature, electric conductivity (EC), dissolved oxygen (DO), and oxygen-reduction potential (ORP) will be periodically measured using a flow-thru cell and QED multiparameter meter. In addition, turbidity will be measured using a Lamotte 2020 turbidimeter, ferrous iron (Fe(II)) will be measured using a Hach DR890 Colorimeter, and the QED dissolved oxygen measurements will be confirmed using a CHEMetrics, Inc. test kit. Purging will continue until three consecutive measurements are within +/-0.2 for pH, +/-3% for EC, +/-10% for DO, and +/-20 mV for ORP (ATSM, 2002).
- At the completion of purging, groundwater samples will be collected in laboratory-supplied containers, labeled in accordance with Boeing's Data Management Plan (CH2M Hill, 2007), placed on ice in a cooler, identified on

the chain-of-custody, submitted to appropriately certified environmental testing laboratories, and analyzed, according to the WDR Order, for the following:

- volatile organic compounds (EPA Method 8260B);
- total organic carbon (EPA 9060);
- volatile fatty acids by IC Method 8M23G (Microseeps, Inc., Pittsburg, PA);
- dissolved hydrocarbon gases (ethene, ethane, and methane by RSK 175);
- total alkalinity (EPA Method 310.1);
- dissolved minerals (sulfate, nitrate, nitrite, and chloride by EPA Method 300 Series); and
- Quantitative Polymerase Chain Reaction (qPCR) analysis for DHC 16S rRNA gene and functional genes tceA, bvcA, and vcrA (North Wind, Inc., Pocatello, ID).

A summary of the analytical program is presented in Tables 1 and 2.

Closing Remarks

Ground water monitoring is scheduled to commence at the site on Tuesday, August 5, 2008. Avocet Environmental, Inc. appreciates the opportunity to be of service to Boeing Corporate Real Estate. If you have any questions, please do not hesitate to call.

Respectfully submitted,

AVOCET ENVIRONMENTAL, INC.

Michael A. Rendina

Michael A. Rendina, P.G.
Principal

MAR:sh
Enclosure

cc: Mr. Joe Weidmann – Haley & Aldrich
Mr. Ravi Subramanian - CDM

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Table

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Table 1
August 2008 Former Building 2 WDR Groundwater Monitoring Program
Boeing CRE Former C-6 Facility,
Los Angeles, California

Well Information			Field Program				Laboratory Program								
Well Name	Sampling Group	Hydrostratigraphic Unit	Total Select VOCs Concentration (µg/l)	Sampling Order	Water Level Measurement	Field Parameters	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 (NO_3, NO_2, Cl, SO_4) EPA 300.0	Total Dissolved Solids EPA 160.1	DHC 16S rRNA gene and functional genes tceA, bvcA, and vcrA; by qPCR analysis (North Wind)	Comments
Group A Wells															
IRZC0001 & IRZC0003 through IRZC0020	A	C-Sand	-	-											Not accessible for sampling
Group B Wells															
CMW026	B	C-Sand	1,300	1	x	x	x	x	x	x	x	x	-	x	"Month 1" Monitoring Event
IRZCMW003	B	C-Sand	7,800	4	x	x	x	x	x	x	x	x	-	x	"Month 1" Monitoring Event
IRZCMW002	B	C-Sand	1,700	2	x	x	x	x	x	x	x	x	-	x	"Month 1" Monitoring Event
MWC024	B	C-Sand	2,750	3	x	x	x	x	x	x	x	x	-	x	"Month 1" Monitoring Event
Group C Wells															
CMW002	C	C-Sand	-												Not monitored during "Month 1" event
Group D Well															
IRZCMW001	D	C-Sand	-												Not monitored during "Month 1" event
Quality Control Samples															
Duplicates (1 per 20 wells)							x (est. 1)								
Trip Blanks (1 per cooler)							x (est. 1)								
			Totals:		4	4	6	4	4	4	4	4	0	4	

Notes: Field Parameters = pH, DO, ORP, EC, temp, turb, and ferrous iron.
pH = Potential of Hydrogen
DO = Dissolved Oxygen
ORP = Oxidation Reduction Potential
EC = Electrical Conductivity
Temp = Temperature
Turb = Turbidity
µg/l = Micrograms per liter

VOCs = Volatile organic compounds
EPA = U.S. Environmental Protection Agency
TOC = Total Organic Carbon
DHGs = Dissolved hydrocarbon gases
NO_3 = Nitrate, NO_2 = Nitrite, Cl = Chloride, SO_4 = Sulfate
DHC = *dehalococcoides spp.* strains
qPCR = Quantitative Polymerase Chain Reaction

Select VOCs for Total VOC calculation include PCE, TCE, cis-1,2-DCE, trans-1,2-DCE, and VC (June 2007).

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Table 2
August 2008 WDR Groundwater Monitoring Program
BCRE Former C-6 Facility,
Los Angeles, California

Well Information			Field Program				Laboratory Program								
Well Name	Sampling Group	Hydrostratigraphic Unit	Total VOCs Concentration (µg/l)	Sampling Order	Water Level Measurement	Field Parameters	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 (NO_3, NO_2, Cl, SO_4) EPA 300.0	Total Dissolved Solids EPA 160.1	DHC 16S rRNA gene and functional genes tceA, bvcA, and vcrA: by qPCR analysis (North Wind)	Comments
Group A Wells															
AW0066UB	A1	B-Sand	202,340	-											Not monitored in August
AW0067UB	A1	B-Sand	10,430	-											Not monitored in August
AW0064UB	A2	B-Sand	11,213	-											Not monitored in August
AW0065UB	A2	B-Sand	86,600	-											Not monitored in August
Group B Wells															
AW0075UB	B1	B-Sand	11,072	2	x	x	x	-	-	x	-	-	-	x	
AW0076UB	B1	B-Sand	84,878	8	x	x	x	-	-	x	-	-	-	x	
AW0077UB	B1	B-Sand	66,950	7	x	x	x	-	-	x	-	-	-	x	
EWB002	B1	B-Sand	66,066	6	x	x	x	-	-	x	-	-	-	x	
AW0073C	B1	B-Sand	14,465	4	x	x	x	-	-	x	-	-	-	x	
WCC_06S	B2	B-Sand	11,205	3	x	x	x	-	-	x	-	-	-	x	
AW0074UB	B2	C-Sand	5,005	1	x	x	x	-	-	x	-	-	-	x	
Group C Wells															
TMW_07	C	B-Sand	1725	-											Not monitored in August
WCC_12S	C	B-Sand	163	-											Not monitored in August
Group D Well															
AW0055UB	D	B-Sand	49067	5	x	x	x	-	-	x	-	-	-	x	
MWB006	D	B-Sand	242900	9	x	x	x	x	x	x	x	x	-	x	
Quality Control Samples															
Duplicates (1 per 20 wells)							x (est. 1)								
Rinsate Blanks (1 per day)							x (est. 1)								
Trip Blanks (1 per cooler)							x (est. 2)								
			Totals:		9	9	12	1	1	9	1	1	0	9	

Notes: Field Parameters = pH, DO, ORP, EC, temp, turb, and ferrous iron
pH = Potential of Hydrogen
DO = Dissolved Oxygen
ORP = Oxidation Reduction Potential
EC = Electrical Conductivity
Temp = Temperature
Turb = Turbidity
µg/l = Micrograms per liter
Total VOCs Concentration - B1 Wells March 2008 monitoring

VOCs = Volatile organic compounds
EPA = U.S. Environmental Protection Agency
TOC = Total Organic Carbon
DHGs = Dissolved hydrocarbon gases
NO_3 = Nitrate, NO_2 = Nitrite, Cl = Chloride, SO_4 = Sulfate
DHC = *dehalococcoides spp.* strains
qPCR = Quantitative Polymerase Chain Reaction

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Figures

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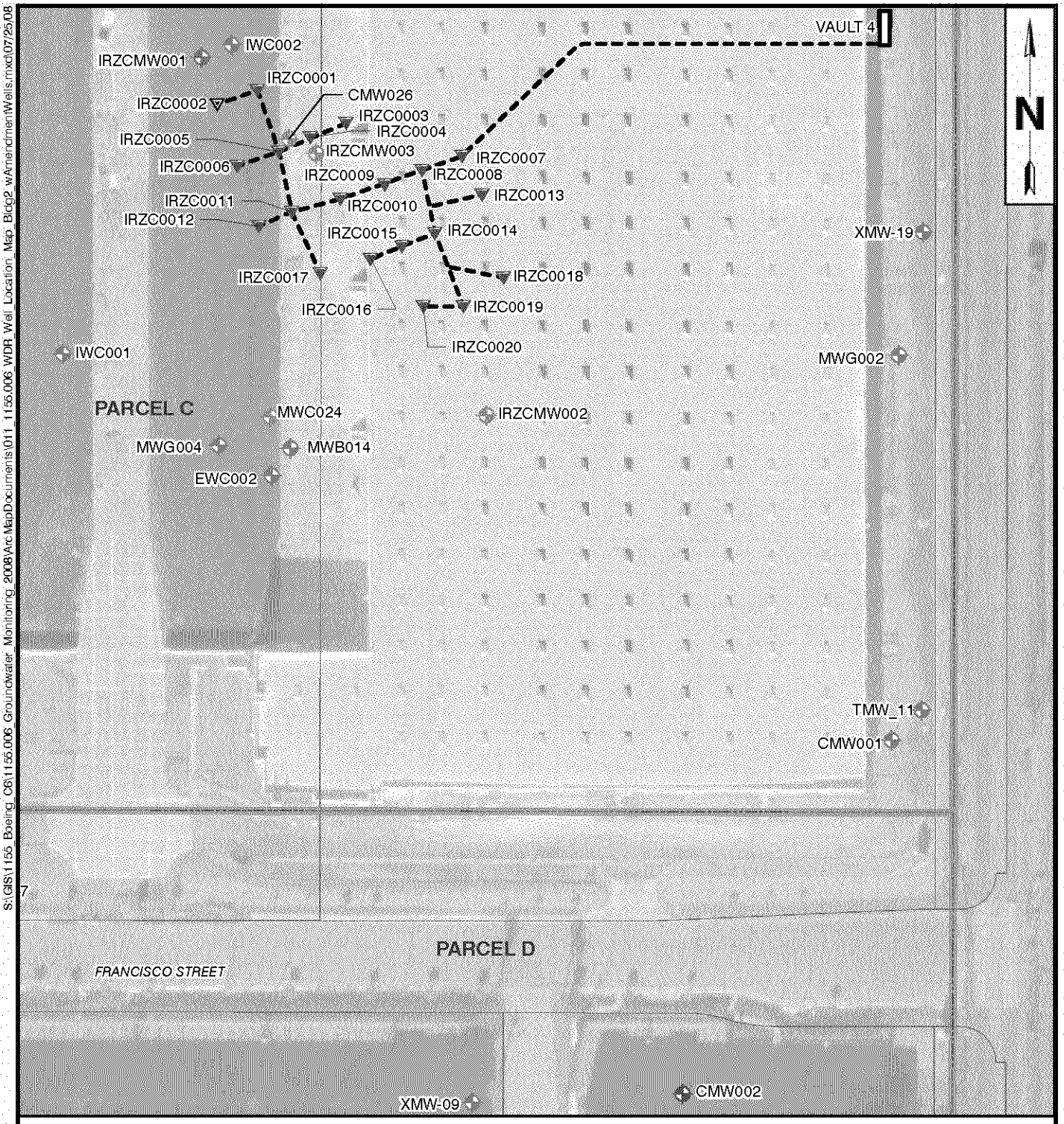

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LEGEND

- 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 1

WDR WELL LOCATION MAP
FORMER BUILDING 2 AREA

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

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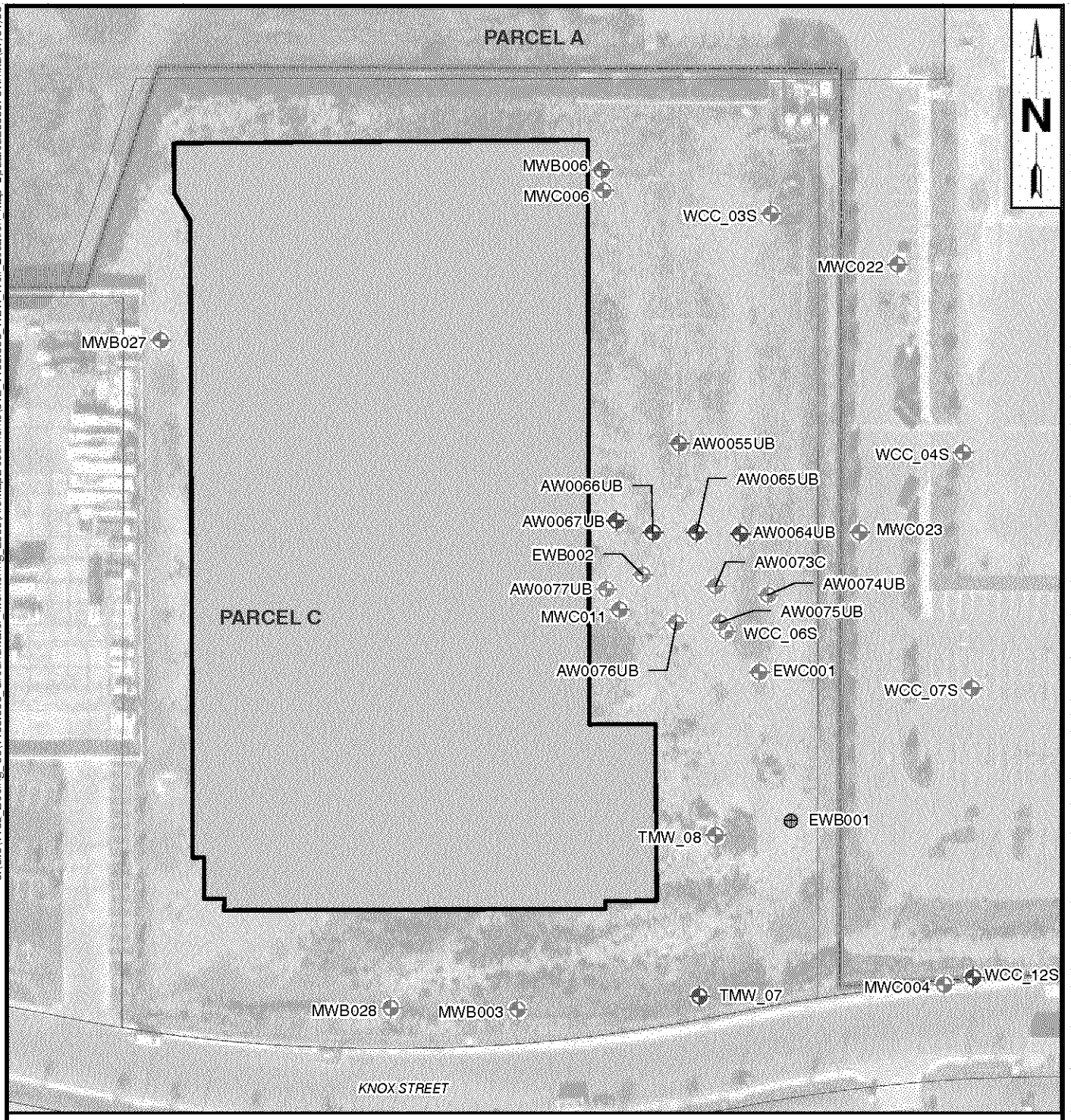

LEGEND

- 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

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Attachment 2

Field Data Forms

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Groundwater Monitoring Well Gauging Sheet

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

Location: Long Beach, CA **Field Personnel:** BCB/DML **Date:** 8/5/2008

Field Conditions: Warm, Clear

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	Comments/Well Condition
CMW026	03/26/08	59.25	117.00	8/5/2008	7:15	4	48.0	TOC-N	59.14	59.14	Good
IRZCMW002	03/26/08	63.50	121.00	8/5/2008	9:07	4	0.0	TOC-N	53.32	53.32	Good
MWC024	03/26/08	59.52	121.00	8/5/2008	12:24	4	36.5	TOC-N	59.24	59.24	Good
IRZCMW003	03/26/08	59.41	117.00	8/5/2008	13:17	4	17.4	TOC-N	59.17	59.17	Good
AW0074UB	06/17/08	59.34	90.00	8/5/2008	8:59	2	31.5	TOC-N	59.34	59.34	Good
AW0075UB	06/17/08	59.85	89.00	8/5/2008	9:21	2	25.0	TOC-N	59.83	59.83	Good
WCC_06S	04/22/08	59.39	84.50	8/5/2008	9:27	4	0.0	TOC-N	59.11	59.11	Difficult access
AW0073C	06/17/08	60.04	116.00	8/5/2008	9:33	2	0.0	TOC-N	60.05	60.05	Good
AW0055UB	06/17/08	60.03	89.00	8/5/2008	9:40	2	9.4	TOC-N	60.10	60.1	Good
EWB002	06/17/08	60.28	90.00	8/5/2008	9:45	6	0.0	TOC-N	60.38	60.38	Good
AW0077UB	06/17/08	60.53	85.50	8/5/2008	9:55	2	0.0	TOC-N	60.64	60.64	Good
AW0076UB	06/17/08	60.34	89.00	8/5/2008	10:03	2	16.1	TOC-N	60.37	60.37	Good
MWB006	03/27/08	60.34	90.00	8/5/2008	10:10	4	135	TOC-N	60.32	60.32	Good

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GROUNDWATER SAMPLING DATA SHEET

Project Name: Boeing Former C-6 Facility, B2 Month 1 WDR Sampling, August		**Date:** 8/5/08	
Project No.:	1155.006	**Prepared by:** BCB	
Well Identification:	CMW026	**Weather:** Clear / Cool	
Measurement Point Description:	TOC-N	**Pump Intake:** COS	**Screen:** 92 - 117

A	B	C	D = C - B	E = B - A	G = D x F	H = Screen 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.)
—	59.05	117	57.95	—	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 - Dedicated
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
0734	10/5s @ 80 psi	0	250	59.05	22.58	1.136	2.37	6.29	-179	29	colorless
0737		750		59.22	22.16	2.28	0.56	6.40	-181	17	light yellow
0740		1,500		59.29	22.04	2.93	0.33	6.46	-190	7.7	"
0743		2250		59.30	22.05	2.97	0.37	6.46	-200	5.2	"
0746		3000		59.31	22.07	2.99	0.38	6.46	-202	3.9	"
0749		3750		59.31	22.08	3.02	0.38	6.46	-204	3.1	"
0752		4500		59.31	22.08	3.04	0.38	6.46	-205	2.7	"
0755		5250		59.31	22.08	3.05	0.38	6.46	-206	2.5	"

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
0734	0755	250	5.25	N/A	NA	59.31	0755	CMW026_WG200808 05 _01

Notes: (units) [stabilization criteria]

Field Parameters		
Ferrous Iron (mg/L)	PID (ppm):	Chemetrics D.O.(mg/L)
1.55	48.0	—

DUP:
DRUM NO:

AVOCET ENVIRONMENTAL, INC.

GROUNDWATER SAMPLING DATA SHEET

Project Name: Boeing Former C-6 Facility, B2 Month 1 WDR Sampling, August		**Date:** 8/5/08	
Project No.:	1155.006	**Prepared by:** BCB	
Well Identification:	IRZCMW002	**Weather:** Inside structure	
Measurement Point Description:	TOC-N	**Pump Intake:** COS	**Screen:** 96 - 121

A	B	C	D = C - B	E = B - A	G = D x F	H = Screen 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.)
—	53.32	121	67.68	—	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 - Dedicated
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
0907		0	250	53.32	21.62	2.11	2.24	6.44	-95	252	cloudy
0910	↓	750	↓	53.59	21.40	1.98	0.61	6.42	-120	19.7	colorless
0913		1500		53.75	21.40	1.91	0.37	6.38	-139	9.2	light yellow
0916		2250		53.92	21.39	1.90	0.34	6.35	-145	7.7	"
0919		3000		54.12	21.39	1.94	0.32	6.38	-148	5.2	"
0922		3750		54.19	21.39	1.96	0.33	6.38	-159	4.3	"
0925	↓	4500	↓	54.25	21.39	1.97	0.32	6.38	-162	3.9	"
~~0928~~	—			~~54.28~~							

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
0907	0925	250	4.5	N/A	NA	54.25	0925	IRZCMW002_WG200808 05 _01

Notes: (units) [stabilization criteria]

Field Parameters		
Ferrous Iron (mg/L)	PID (ppm):	Chemetrics D.O.(mg/L)
1.74	0.0	—

DUP:
DRUM NO:

AVOCET ENVIRONMENTAL, INC.

GROUNDWATER SAMPLING DATA SHEET

Project Name: Boeing Former C-6 Facility, B2 Month 1 WDR Sampling, August		Date: 8/5/08	
Project No.:	1155.006	Prepared by: BCB	
Well Identification:	IRZCMW003	Weather: Clear / Hot	
Measurement Point Description:	TOC-N	Pump Intake:	Screen: 92 - 117

A	B	C	D = C - B	E = B - A	G = D x F	H = Screen 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.)
–	59.17	117	57.83	–	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 - Dedicated

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
1317	60/5s @ 82psi	–	250	59.17	24.36	1.054	4.07	7.25	-151	0.87	Colorless
1320	↓		↓	59.29	22.07	0.981	0.24	7.22	-128	0.82	"
1323				59.30	22.02	0.980	0.12	7.26	-117	0.43	"
1325				59.30	21.97	0.981	0.10	7.30	-112	0.19	"
1328				59.31	22.00	0.980	0.09	7.33	-109	0.15	"
1331				59.31	21.96	0.979	0.09	7.34	-109	0.11	"
1334				59.31	21.97	0.979	0.10	7.33	-107	0.14	"

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
1317	1334	250	4.5	N/A	NA		1334	IRZCMW003_WG200808 05 _01

Notes: (units) [stabilization criteria]

Field Parameters		
Ferrous Iron (mg/L)	PID (ppm):	Chemetrics D.O.(mg/L)
0.01	17.4	—

DUP:

DRUM NO:

AVOCET ENVIRONMENTAL, INC.

GROUNDWATER SAMPLING DATA SHEET

Project Name: Boeing Former C-6 Facility, B2 Month 1 WDR Sampling, August		**Date:** 8/5/08	
Project No.:	1155.006	**Prepared by:** BCB	
Well Identification:	MWC024	**Weather:** Clear / Hot	
Measurement Point Description:	TOC-N	**Pump Intake:** COS	**Screen:** 96 - 121

A	B	C	D = C - B	E = B - A	G = D x F	H = Screen 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.)
—	59.24	121	61.76	—	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 - Dedicated
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
1224	10/5s @ 80 psi	—	250	59.24	25.55	1.73	1.69	6.80	-99	2.26	colorless
1227	↓		↓	59.31	23.17	1.60	0.91	6.87	-70	2.35	"
1230				59.32	23.02	1.60	0.86	6.91	-68	2.44	"
1233				59.31	23.02	1.60	0.85	6.93	-62	2.56	"
1236				59.31	23.92	1.60	0.92	6.98	-60	1.11	"
1239				59.31	23.95	1.61	0.92	6.99	-61	0.34	"
1242				59.31	23.96	1.61	0.96	7.00	-59	0.12	"

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
1224	1242	250	4.5	N/A	NA	59.31	1242	MWC024_WG200808 05 _01

Notes: (units) [stabilization criteria]

Field Parameters		
Ferrous Iron (mg/L)	PID (ppm):	Chemetrics D.O.(mg/L)
0.03	36.5	1.0

DUP: MWC024_WG200808 05 _02
DRUM NO:

AVOCET ENVIRONMENTAL, INC.

GROUNDWATER SAMPLING DATA SHEET

Project Name: Boeing Former C-6 Facility, B1-36 WDR Sampling, August 2008		Date: 8/6/08	
Project No.: 1155.006		Prepared by: BCB	
Well Identification: AW0055UB		Weather: Clear / Hot	
Measurement Point Description: TOC-N		Pump Intake: 60S	Screen: 69 - 89

A	B	C	D = C - B	E = B - A	G = D x F	H = Screen 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.)
—	59.98	89	29.02	—	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 - Dedicated

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
1058	10/5s @ 55psi	—	250	59.98	25.52	2.16	2.23	6.91	-61	54.9	colorless
1101	↓	750	↓	60.07	23.87	3.12	1.24	6.47	-81	32.2	"
1104		1500		60.12	23.54	3.16	0.74	6.48	-87	15.7	"
1107		2250		60.11	23.32	3.17	0.56	6.50	-111	7.11	"
1111		3000		60.13	23.27	3.17	0.33	6.52	-115	2.84	"
1114		3750		60.12	23.16	3.17	0.27	6.52	-117	1.47	"
1117		4500		60.11	23.19	3.17	0.24	6.51	- ~~89~~ 119	0.96	"

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
1158	1117	250	4.5	N/A	NA	60.11	1117	AW0055UB_WG200808 06 _01

Notes: (units) [stabilization criteria]

Field Parameters		
Ferrous Iron (mg/L)	PID (ppm):	Chemetrics D.O.(mg/L)
1.02	9.4	—

DUP:

DRUM NO:

AVOCET ENVIRONMENTAL, INC.

GROUNDWATER SAMPLING DATA SHEET

Project Name: Boeing Former C-6 Facility, B1-36 WDR Sampling, August 2008		Date: 8/6/08	
Project No.:	1155.006	Prepared by: BCB	
Well Identification:	AW0073C	Weather: Clear/Hot	
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 = Screen 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.)
—	59.94	116	—		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 - Dedicated
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
1003	10/5s @ 65psi	—	250	59.94	26.47	1.52	1.99	6.73	-72	22.7	colorless
1006	↓	750	↓	60.17	24.08	0.891	1.43	7.04	-105	30.0	"
1009		1500		60.15	23.44	0.879	0.37	7.12	-168	32.2	"
1012		2250		60.12	23.32	0.873	0.27	7.12	-177	27.5	"
1015		3000		60.15	23.40	0.864	0.25	7.14	-177	22.4	"
1018		3750		60.14	23.41	0.857	0.22	7.15	-177	19.5	"
1021		4500		60.13	23.35	0.849	0.18	7.14	-177	17.3	"

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
1003	1021	250	4.5	N/A	NA	60.13	1021	AW0073C_WG200808 06 _01

Notes: (units) [stabilization criteria]

Field Parameters		
Ferrous Iron (mg/L)	PID (ppm):	Chemetrics D.O.(mg/L)
1.99	0.0	—

DUP:
DRUM NO:

AVOCET ENVIRONMENTAL, INC.

GROUNDWATER SAMPLING DATA SHEET

Project Name: Boeing Former C-6 Facility, B1-36 WDR Sampling, August 2008		Date: 8/6/08	
Project No.: 1155.006		Prepared by: BCB	
Well Identification: AW0074UB		Weather: Clear / Warm	
Measurement Point Description: TOC-N		Pump Intake: COS	Screen: 70 - 90

A	B	C	D = C - B	E = B - A	G = D x F	H = Screen 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.)
—	59.29	90	30.71	—	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 - Dedicated

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
0830	10/5 @ 80psi	—	250	59.29	23.95	0.837	3.25	6.61	-55	5.99	colorless
0833	↓	750	↓	59.32	22.71	3.25	1.23	6.34	-67	4.33	"
0836		1500		59.31	22.67	3.13	1.13	6.37	-97	2.29	"
0839		2250		59.30	22.65	3.07	0.85	6.41	-110	2.42	"
0842		3000		59.29	22.63	2.92	0.62	6.43	-111	2.01	"
0845		3750		59.29	22.64	2.92	0.57	6.44	-111	1.11	"
0848		4500		59.29	22.64	2.92	0.52	6.44	-112	0.27	"

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
0830	0848	250	4.5	N/A	NA	59.29	0848	AW0074UB_WG200808 06 _01

Notes: (units) [stabilization criteria]

Field Parameters		
Ferrous Iron (mg/L)	PID (ppm):	Chemetrics D.O.(mg/L)
1.07	31.5	—

DUP:

DRUM NO:

AVOCET ENVIRONMENTAL, INC.

GROUNDWATER SAMPLING DATA SHEET

Project Name: Boeing Former C-6 Facility, B1-36 WDR Sampling, August 2008		Date: 8/6/08	
Project No.:	1155.006	Prepared by: BCB	
Well Identification:	AW0075UB	Weather: Clear	
Measurement Point Description:	TOC-N	Pump Intake: 60s	Screen: 69 - 89

A	B	C	D = C - B	E = B - A	G = D x F	H = Screen 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.)
—	59.77	89	29.23	—	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 - Dedicated
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
0912	1015s @ 65psi	—	250	59.77	24.75	3.57	0.46	6.34	-109	20.5	colorless
0915	↓	750	↓	59.79	23.28	3.65	0.29	6.33	-116	24.1	"
0918		1500		59.80	23.20	3.64	0.25	6.33	-123	22.8	"
0921		2250		59.79	23.29	3.64	0.25	6.32	-124	20.2	"
0924		3000		59.80	23.40	3.64	0.26	6.32	-124	16.3	"
0927		3750		59.80	23.42	3.65	0.24	6.32	-121	17.6	"
0930		4500		59.80	23.4	3.65	0.23	6.32	-121	15.1	"

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
0912	0930	250	4.5	N/A	NA	59.80	0930	AW0075UB_WG200808 06 _01

Notes: (units) [stabilization criteria]

Field Parameters		
Ferrous Iron (mg/L)	PID (ppm):	Chemetrics D.O.(mg/L)
1.35	25.0	—

DUP: AW0075UB_WG200808 06 _02
DRUM NO:

AVOCET ENVIRONMENTAL, INC.

GROUNDWATER SAMPLING DATA SHEET

Project Name: Boeing Former C-6 Facility, B1-36 WDR Sampling, August 2008		Date: 8/7/08	
Project No.:	1155.006	Prepared by: BCB	
Well Identification:	AW0076UB	Weather: Clear / Warm / Humid	
Measurement Point Description:	TOC-N	Pump Intake: 60S	Screen: 69 - 89

A	B	C	D = C - B	E = B - A	G = D x F	H = Screen 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.)
—	60.22	89	28.78	—	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 - Dedicated

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
0737	10/5s @ 55psi	—	250	60.22	22.89	3.77	1.15	6.45	-128	18.7	colorless
0740	↓	750	↓	60.27	22.87	3.64	0.91	6.45	-129	12.2	"
0743		1500		60.29	22.83	3.54	0.76	6.44	-129	4.70	"
0746		2250		60.28	22.74	3.55	0.71	6.44	-130	4.12	"
0749		3000		60.27	22.95	3.57	0.53	6.45	-133	3.51	"
0752		3750		60.28	22.97	3.57	0.49	6.45	-133	2.45	"
0755		4500		60.27	22.98	3.60	0.41	6.45	-133	1.91	"

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
0737	0755	250	4.5	N/A	NA	60.27	0755	AW0076UB_WG20080807_01

Notes: (units) [stabilization criteria]

Field Parameters		
Ferrous Iron (mg/L)	PID (ppm):	Chemetrics D.O.(mg/L)
1.47	16.1	—

DUP:

DRUM NO:

AVOCET ENVIRONMENTAL, INC.

GROUNDWATER SAMPLING DATA SHEET

Project Name: Boeing Former C-6 Facility, B1-36 WDR Sampling, August 2008		Date: 8/6/08	
Project No.:	1155.006	Prepared by: BCB	
Well Identification:	AW0077UB	Weather: Sunny / Hot 94°	
Measurement Point Description:	TOC-N	Pump Intake: COS	Screen: 70.5 - 85.5

A	B	C	D = C - B	E = B - A	G = D x F	H = Screen 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.)
–	60.52	85.50	24.98	–	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 - Dedicated

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
1257	10/5s @ 55psi	–	250	60.52	24.07	3.53	0.26	6.44	-160	8.89	colorless
1300	↓	750	↓	60.85	24.74	3.66	0.23	6.43	-167	32.7	light yellow
1303		1500		60.94	23.84	3.67	0.21	6.43	-172	21.5	"
1306		2250		61.05	23.69	3.61	0.21	6.41	-174	18.4	"
1309		3000		61.11	23.68	3.58	0.22	6.40	-175	15.1	"
1312		3750		61.15	23.65	3.52	0.21	6.39	-176	10.2	"
1315		4500		61.19	23.63	3.49	0.21	6.39	-176	8.50	"

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
1257	1315	250		N/A	NA	61.19	1315	AW0077UB_WG200808 06 _01

Notes: (units) [stabilization criteria]

Field Parameters		
Ferrous Iron (mg/L)	PID (ppm):	Chemetrics D.O.(mg/L)
2.49	0.0	–

DUP:

DRUM NO:

AVOCET ENVIRONMENTAL, INC.

GROUNDWATER SAMPLING DATA SHEET

Project Name: Boeing Former C-6 Facility, B1-36 WDR Sampling, August 2008		Date: 8/6/08	
Project No.:	1155.006	Prepared by: BCB	
Well Identification:	EWB002	Weather: Clear / Hot	
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 = Screen 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.)
—	60.27	90	29.73	—	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 - Dedicated

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
1218	10/5s @ 65psi	—	250	60.27	26.16	3.32	0.58	6.53	-135	4.64	colorless
1221	↓		↓	60.36	23.95	3.39	0.34	6.35	-133	3.13	"
1224				60.42	23.84	3.39	0.29	6.39	-142	2.74	"
1227				60.45	23.80	3.39	0.25	6.41	-144	2.23	
1230				60.48	23.78	3.39	0.24	6.41	-146	1.93	"
1233				60.49		3.40	0.23	6.41	-146	1.89	"
1236				60.50	23.83	3.40	0.22	6.41	-146	2.01	"

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
1218	1236	250	4.5	N/A	NA	60.50	1236	EWB002_WG200808 06 _01

Notes: (units) [stabilization criteria]

Field Parameters		
Ferrous Iron (mg/L)	PID (ppm):	Chemetrics D.O.(mg/L)
3.17	0.0	—

DUP:

DRUM NO:

AVOCET ENVIRONMENTAL, INC.

GROUNDWATER SAMPLING DATA SHEET

Project Name: Boeing Former C-6 Facility, B1-36 WDR Sampling, August 2008		Date: 8/7/08	
Project No.:	1155.006	Prepared by: BCB	
Well Identification:	MWB006	Weather: Clear / Hot	
Measurement Point Description:	TOC-N	Pump Intake: COS	Screen: 65 - 90

A	B	C	D = C - B	E = B - A	G = D x F	H = Screen 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.)
—	60.10	90	29.90		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 - Portable

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
0910	10/5s @ 65psi	–	250	60.10	26.35	7.24	4.23	6.04	-69	16.8	colorless
0913				60.45	25.04	7.98	2.30	5.90	-78	14.2	"
0916				60.52	24.96	7.99	1.82	5.90	-84	11.8	"
0919				60.60	24.93	8.00	1.40	5.90	-87	9.68	"
0922				60.67	24.87	8.00	0.99	5.89	-89	9.02	"
0925				60.74	24.78	8.00	0.72	5.89	-91	7.67	"
0928				60.77	24.77	8.00	0.68	5.89	-92	6.75	"

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
0910	0928	250	4.5	N/A	NA	60.77	0928	MWB006_WG200808 07 _01

Notes: (units) [stabilization criteria]

Field Parameters		
Ferrous Iron (mg/L)	PID (ppm):	Chemetrics D.O.(mg/L)
2.87	135	—

DUP:

DRUM NO:

AVOCET ENVIRONMENTAL, INC.

GROUNDWATER SAMPLING DATA SHEET

Project Name: Boeing Former C-6 Facility, B1-36 WDR Sampling, August 2008		**Date:** 8/5/08	
Project No.:	1155.006	**Prepared by:** BCB	
Well Identification:	WCC_06S	**Weather:** Clear / Hot / Humid	
Measurement Point Description:	TOC-N	**Pump Intake:** 60S	**Screen:** 60 - 90

A	B	C	D = C - B	E = B - A	G = D x F	H = Screen 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.)
—	59.04	90	30.96	—	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 - Portable
Well Condition: Difficult access

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
1111	10/5s @ 80psi	0	250	59.04	24.73	3.78	2.23	5.92	-135	110	cloudy
1114	↓		↓	59.14	23.80	3.82	1.35	5.90	-149	184	v. dark gray
1117				59.16	23.77	3.83	1.03	5.90	-150	157.0	"
1120				59.17	23.72	3.83	0.77	5.90	-152	122.0	"
1123				59.18	23.77	3.83	0.64	5.89	-152	135	light gray
1126				59.19	23.82	3.83	0.52	5.87	-151	142	"
1129		4.5		59.17	23.79	3.83	0.38	5.87	-151	137	"

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
1111	1129	250	4.5	N/A	NA	1129	1129	WCC_06S_WG200808 05 _01

Notes: (units) [stabilization criteria]

Field Parameters		
Ferrous Iron (mg/L)	PID (ppm):	Chemetrics D.O.(mg/L)
1.92	0.0	—

DUP:
DRUM NO:

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

Sheet 1 of 1

1RH0266

Boeing CoC No. AVO20080805 A

CHAIN OF CUSTODY RECORD

8/6/08

Project Information:

Site Name	Boeing Former C-6 Facility, B1-36 WDR Sampling, August 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 per David L.

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 SM2320B	Anions (NO3, NO2, Cl, SO4) EPA 300.0	DHC PCR (NorthWind) 24 HR HT!!	Total Dissolved Solids (TDS) SM2540C	Comments
~~AW0074UB_WG200808 _01~~			~~Water~~	~~8~~		~~X~~			~~X~~			~~X~~		
~~AW0075UB_WG200808 _01~~			~~Water~~	~~8~~		~~X~~			~~X~~			~~X~~		
~~AW0075UB_WG200808 _02~~			~~Water~~	~~3~~		~~X~~								
WCC_06S_WG20080805_01	8-5-08	11:29	Water	8		X			X			X		
~~AW0073C_WG200808 _01~~			~~Water~~	~~8~~		~~X~~			~~X~~			~~X~~		
~~AW0055UB_WG200808 _01~~			~~Water~~	~~8~~		~~X~~			~~X~~			~~X~~		
~~EWB002_WG200808 _01~~			~~Water~~	~~8~~		~~X~~			~~X~~			~~X~~		
~~AW0077UB_WG200808 _01~~			~~Water~~	~~8~~		~~X~~			~~X~~			~~X~~		
~~AW0076UB_WG200808 _01~~			~~Water~~	~~8~~		~~X~~			~~X~~			~~X~~		
~~MWB006_WG200808 _01~~			~~Water~~	~~12~~		~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	
~~EB_AV200808 _01~~			~~Water~~	~~3~~		~~X~~								
~~TB_AV200808 _01~~														

PC 8/05/08

Relinquished by		Company	Received by		Company
Printed Name: Brian Barsumian	Date: 8/5/08	Avocet Environmental, Inc.	Printed Name: Gary Schlegel	Date: 8-5-08	
Signature: [signature]	Time: 1415		Signature: [signature]	Time: 1415	
Printed Name: Gary Schlegel	Date: 8-5-08		Printed Name: NU BANH	Date: 8/5/08	TA/Inv. 5.4/5.5
Signature: [signature]	Time: 1505		Signature: [signature]	Time: 1505	
Printed Name:	Date:		Printed Name:	Date:	
Signature:	Time:		Signature:	Time:	

Sample Receipt	Billing Information	Special Instructions
Total Containers	Bill To: Michael Rendina, P.G. AVOCET ENVIRONMENTAL, INC. 16 Technology Dive, 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		
COC Seal (Y/N/NA)		

S:\Projects\1155 Boeing Former C-6 Facility\Groundwater Monitoring\August 2008\COC__AVO20080805A.xls

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

Sheet 1 of 1 IRH0267

Boeing CoC No. AVO20080~~7~~8 05B

CHAIN OF CUSTODY RECORD

8/6/08 per David L.

Project Information:

Site Name	Boeing Former C-6 Facility, B2 Month 1 WDR Sampling, August 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 SM2320B	Anions (NO3, NO2, Cl, SO4) EPA 300.0	DHC PCR (NorthWind) 24 HR HT!!	~~Total Dissolved Solids (TDS) SM2540C~~ 8/6/08 (per David L)									Comments
CMW026_WG20080805_01	08/05/08	0755	Water	12		X	X	X	X	X	X	X										
IRZCMW002_WG20080805_01	08/05/08	0925	Water	12		X	X	X	X	X	X	X										
MWC024_WG20080805_01	08/05/08	1242	Water	12		X	X	X	X	X	X	X										
MWC024_WG20080805_02	08/05/08	1242	Water	3		X																
IRZCMW003_WG20080805_01	08/05/08	1334	Water	12		X	X	X	X	X	X	X										
TB_AV20080805_01	08/05/08		Water	3		X																

Relinquished by		Company	Received by		Company
Printed Name: Brian Barsumian	Date: 8/5/08	Avocet Environmental, Inc.	Printed Name: Conny Sallyer	Date: 8/5/08	
Signature: [signature]	Time: 1415		Signature: [signature]	Time: 1415	
Printed Name: Conny Sallyer	Date: 8/5/08		Printed Name: VU BANH	Date: 8/5/08	TA/Irv. 5.4/5.5
Signature: [signature]	Time: 1505		Signature: [signature]	Time: 1505	
Printed Name:	Date:		Printed Name:	Date:	
Signature:	Time:		Signature:	Time:	

Sample Receipt	Billing Information	Special Instructions
Total Containers	Bill To: Michael Rendina, P.G. AVOCET ENVIRONMENTAL, INC. 16 Technology Dive, 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		
COC Seal (Y/N/NA)		

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BOE-C6-0057022

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

Sheet 1 of 1 IR60412

Boeing CoC No. AVO200808 06 A

CHAIN OF CUSTODY RECORD

Project Information:

Site Name	Boeing Former C-6 Facility, B1-36 WDR Sampling, August 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 SM2320B	Anions (NO3, NO2, Cl, SO4) EPA 300.0	DHC PCR (NorthWind) 24 HR HT!!	Total Dissolved Solids (TDS) SM2540C	Comments
AW0074UB_WG200808 06 _01 *	8/6/08	0848	Water	8		X			X			X		* corrected 8/6/08
AW0075UB_WG200808 06 _01	"	0930	Water	8		X			X			X		
AW0075UB_WG200808 06 _02	"	0930	Water	3		X								
~~WCC_065_WG200808 _01~~			~~Water~~	~~8~~		~~X~~			~~X~~			~~X~~		(*) added 8/6/08
AW0073C_WG200808 06 _01	8/6/08	1021	Water	8		X			X			X		
AW0055UB_WG200808 06 _01	↓	1117	Water	8		X			X			X		
EWB002_WG200808 06 _01	↓	1236	Water	8		X			X			X		
AW0077UB_WG200808 06 _01	↓	1315	Water	8		X			X			X		
~~AW0076UB_WG200808 _01~~			~~Water~~	~~8~~		~~X~~			~~X~~			~~X~~		
~~MWB006_WG200808 _01~~			~~Water~~	~~12~~		~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	
~~EB_AV200808 _01~~			~~Water~~	~~3~~		~~X~~								
TB_AV200808 06 _01 TB_AVO200808 06_01		8/7/08				X	(*)							TR 8/6/08 2135

Relinquished by		Company	Received by		Company
Printed Name: Brian Barsumian	Date: 8/6/08	Avocet Environmental, Inc.	Printed Name: Michael Hostine	Date: 8/6/08	TAI
Signature: Brian Barsumian	Time: 1400		Signature:	Time: 1400	
Printed Name: Michael Hostine	Date: 8/6/08	TAI	Printed Name:	Date:	
Signature:	Time: 1445		Signature:	Time:	
Printed Name:	Date:		Printed Name: Truong Nguyen	Date: 8/6/08	TAI
Signature:	Time:		Signature:	Time: 1445	

Sample Receipt	Billing Information	Special Instructions
Total Containers	Bill To: Michael Rendina, P.G. AVOCET ENVIRONMENTAL, INC. 16 Technology Dive, 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 5.6° °F		
COC Seal (Y/N/NA)		

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385 5.6°C

BOE-C6-0057023

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

Sheet 1 of 1 IRH0585 Boeing CoC No. AVO200808 07 A

CHAIN OF CUSTODY RECORD

Project Information:

Site Name	Boeing Former C-6 Facility, B1-36 WDR Sampling, August 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 SM2320B	Anions (NO3, NO2, Cl, SO4) EPA 300.0	DHC PCR (NorthWind) 24 HR HT!!	Total Dissolved Solids (TDS) SM2540C	Comments
~~AW0074UB_WG200808 _01~~			~~Water~~	~~8~~		~~X~~			~~X~~			~~X~~		
~~AW0075UB_WG200808 _01~~			~~Water~~	~~8~~		~~X~~			~~X~~			~~X~~		* corrected
~~AW0075UB_WG200808 _02~~			~~Water~~	~~3~~		~~X~~								8/7/08
~~WCC_06S_WG200808 _01~~			~~Water~~	~~8~~		~~X~~			~~X~~			~~X~~		per David L.
~~AW0073C_WG200808 _01~~			~~Water~~	~~8~~		~~X~~			~~X~~			~~X~~		
~~AW0055UB_WG200808 _01~~			~~Water~~	~~8~~		~~X~~			~~X~~			~~X~~		
~~EWB002_WG200808 _01~~			~~Water~~	~~8~~		~~X~~			~~X~~			~~X~~		
~~AW0077UB_WG200808 _01~~			~~Water~~	~~8~~		~~X~~			~~X~~			~~X~~		
AW0076UB_WG200808 07 _01 *	8/7/08	0755	Water	8		X			X			X		
MWB006_WG200808 07 _01 *		0928	Water	12		X	X	X	X	X	X	X	X	
EB_AV0200808 07 _01 *		1027	Water	3		X								
TB_AV0200808 07 _01 *			"	3		X*								

AF 1410 8/07/08

Relinquished by		Company	Received by		Company
Printed Name: Brian Barsumian	Date: 8/7/08	Avocet Environmental, Inc.	Printed Name: Matt Crossfield	Date: 8-7-08	
Signature: Brian Barsumian	Time: 1145		Signature: Matt Crossfield	Time: 11:45	
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: Michael Rendina, P.G. AVOCET ENVIRONMENTAL, INC. 16 Technology Dive, 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 10.2/10.3 °F		
COC Seal (Y/N/NA)		

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#021

BOE-C6-0057024

AVOCET ENVIRONMENTAL, INC.

QA/QC SAMPLE IDENTIFICATION FORM

Project Name: Boeing Former C-6 WDR Sampling, August 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 and Reference	Name	Comments
8-5-08	–	Trip Blank	TB_AV020080805.01	–	–	8260B	TA-1	–	–
8-5-08	12:42	Duplicate	MWC024_WG20080805.02		MWC024	8260B	–	BCB	–
8-6-08	–	Trip Blank	TB_AV020080806_01	–	–	8260B	TA-1	–	–
8-6-08	9:30	Duplicate	AW0075UB_WG20080806_02		AW0075UB	8260B	–	BCB	–
8-7-08	–	Trip Blank	TB_AV020080807_01	–	–	8260B	TA-1	–	–
8-7-08	10:27	Equip. Blank	EB_AV020080807_01	–	–	8260B	TA-1	BCB	–

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

QED MP20 / LAMOTTE 2020*e*

CALIBRATION CERTIFICATE

Service Technician: CJ

Date: 8/4/08

INSTRUMENT INFORMATION

EQUIPMENT I.D.: MP-20

SERIAL NUMBER: MP20-1585

CALIBRATION INFORMATION

PARAMETERS:	STANDARDS:	VALUE	PASS (✔)	LOT#
1. Conductivity	~~1000~~ 1413 µMhos	1455	✓	Q28105
2. pH Zero	7.00	7.0	—	2704402
3. pH Slope	4.00	4.03	✓	270488
pH Slope	10.00	10.0	✓	2706360
4. Dissolved Oxygen	Air Calibration			
	Barometric pressure = 760mmHg	8.23	✓	N/A
5. Redox (ORP)	_____mV (YSI Zobell solution) 231		✓	051107

EQUIPMENT I.D.: 2020*e*

SERIAL NUMBER: ME 13119

CALIBRATION INFORMATION

PARAMETERS:	STANDARDS:	VALUE	PASS (✔)	LOT#
6. Turbidity Zero	0.0 NTU's	0.0	✓	—
7. Turbidity Span	10 NTU's	10	✓	—