AVOCET
ENVIRONMENTAL, INC.

April 10, 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
March 2008 Groundwater Sampling
Building 1/36 WDR Quarterly Monitoring, Building 2 WDR Baseline Monitoring,
Waste Discharge Requirements Order No. R4-2007-0040;
and Site-Wide Annual Monitoring
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 March 2008 groundwater monitoring event at the Boeing Corporate Real Estate (BCRE) Former C-6 Facility in Los Angeles, California. The March 2008 monitoring included sampling for the Building 1/36 Waste Discharge Requirements (WDR), Building 2 WDR, and Annual Site-Wide groundwater monitoring programs. The monitoring was conducted pursuant to and in accordance with the following:

Avocet Environmental, Inc., March 18, 2008, Technical Memorandum, March 2008 Groundwater Sampling and Analysis Plan, Building 1/36 WDR Quarterly Monitoring, Building 2 WDR Baseline Monitoring, and Site-Wide Annual Monitoring, 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 March 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 monitoring programs.

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GROUNDWATER SAMPLING ACTIVITIES

Groundwater monitoring in March 2008 was conducted in accordance with two separate programs: 1) the Site-Wide Groundwater Monitoring Program, which has been performed periodically at the site since 1987, and 2) Revised Monitoring and Reporting Program CI-9310 (MRP), which is conducted in accordance with Individual WDR Order No. R4-2007-0040 (February 15, 2008).

The Building 1/36 WDR, Building 2 WDR, and Annual Site-Wide groundwater monitoring programs called for fluid level measurements in 78 wells and sample collection from 70 wells, as follows:

Quarterly Building 1/36 WDR Monitoring – Pursuant to the MRP, ten wells (Groups A1, B1, C, and D) were gauged for fluid levels and sampled. Three of these wells (EWB002, TMW_07, and WCC_12S) were also part of the Site-Wide Program. In addition, though not required by the MRP, one Group B2 well (WCC_06S) was also a part of the Site-Wide program and was gauged and sampled in March 2008. Finally, although the Group A2 wells have not been used for amendment injection, and gauging/monitoring of the Groups A2 and B2 wells was not required; pursuant to comments received on the February SAP, these four wells were gauged as part of the Building 1/36 March 2008 WDR Monitoring program.

Baseline Building 2 WDR Monitoring - Pursuant to the MRP, six wells (Groups B, C, and D) were gauged for fluid levels and sampled. All six of these wells are also part of the Site-Wide Program.

Annual Site-Wide Groundwater Monitoring – Pursuant to the 2008 Work Plan, 68 wells were gauged for fluid levels and 63 wells were sampled. Ten of these wells are also part of the Building 1/36 or Building 2 WDR programs and were gauged and sampled in accordance with MCP requirements.

All wells were also inspected for any damage or missing materials and described on field data forms. Field data forms are included in Attachment 2.

Ten Building 1/36 WDR wells and six Building 2 WDR wells were purged and sampled on March 25 and 26, 2008 using either dedicated or portable low-flow bladder pumps and flow-through cells. All WDR wells were purged for sampling using low-flow (0.20-0.25 liters/minute) methods. With one exception, all site-wide monitoring wells were also purged using low-flow methodology. Due to the limited diameter of the well casing, approximately 0.75-inch, Well IRZB0081 was purged for sampling with a Waterra inertial pump and dedicated tubing using conventional (i.e., 3 to 5 wetted casing volumes) purging methods. For all of the WDR monitoring wells, ferrous iron testing was performed using HACH DR/890 Colorimeter and the flow-through cell dissolved oxygen measurements were confirmed in several wells using a CHEMetrics Inc. test kit. The field instruments were calibrated by EQUIPCO, of Irvine, California prior to the event and the calibration data sheets 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,
- Volatile fatty acids (VFAs) by IC Method 8M23G (subcontracted by TestAmerica to Microseeps, Inc., Pittsburg, PA),
- Dissolved gases (ethane, ethane, 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,
- Total Alkalinity by EPA Method 310,
- Quantitative polymerase chain reaction (qPCR) analysis for DHC 16S rRNA gene and functional genes tceA, bvcA, and vcrA ([for 11 of 16 WDR wells] subcontracted by TestAmerica to North Wind, Inc., Pocatello, ID), and
- Total dissolved solids (TDS) by EPA Method 160.1 (for 5 of 16 WDR wells).

Samples from the non-WDR wells were analyzed for VOCs using EPA Method 8260B. In addition, samples from the four Gage aquifer wells were analyzed for anions (sulfate, nitrate, nitrite, and chloride) by EPA Method 300 Series and dissolved hydrocarbon gases (ethene, ethane, and methane) by RSK 175.

Purge water (approximately 280 gallons) was transported to a storage tank located in the treatment compound. A sample of the water within the storage tank was collected on March 31, 2008 and analyzed for VOCs using EPA Method 8260B for waste profiling and disposal purposes.

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

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Attachments:
Attachment 1: March 2008 Groundwater Sampling and Analysis Plan
Attachment 2: Field Data Forms

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Attachment 1

March 2008 Groundwater Sampling and Analysis Plan

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March 18, 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
March 2008 Groundwater Sampling and Analysis Plan
Building 1/36 WDR Quarterly Monitoring, Building 2 WDR Baseline Monitoring, and Site-Wide Annual Monitoring
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 March 2008 groundwater monitoring event at Boeing Corporate Real Estate's (BCRE's) Former C-6 Facility in Los Angeles, California. Groundwater monitoring in March 2008 will be conducted in accordance with two separate programs: 1) the Site-Wide Groundwater Monitoring Program, which has been performed periodically at the site since 1987, and 2) Revised Monitoring and Reporting Program CI-9310 (MRP), which is conducted in accordance with Individual Waste Discharge Requires (WDR) Order No. R4-2007-0040 (February 15, 2008). The March 2008 MRP includes sample collection in two areas of the site in response to two separate bioremediation pilot tests: 1) quarterly sampling of the Former Building 1/36 Biorecirculation Pilot Test wells, and 2) baseline sampling of the Former Building 2 Periodic Slug Injection wells. The details of the Annual Site-Wide Groundwater Monitoring Program are provided in the *2008 Groundwater Monitoring Work Plan* (the Work Plan; Avocet, February 4, 2008). This Work Plan was submitted to the Regional Water Quality Control Board, Los Angeles Region (LARWQCB) on February 5, 2008 and formally approved for implementation in a letter dated March 5, 2008 (LARWQCB, March 5, 2008).

Field Activities

The details of the Building 1/36 WDR, Building 2 WDR, and Annual Site-Wide groundwater monitoring programs are presented in Tables 1 through 3, respectively. Maps showing the well locations are provided in Figures 1 and 2. Collectively, the three events call for fluid level measurements in 78 wells and sample collection from 70 wells, as follows:

Quarterly Building 1/36 WDR Monitoring – Pursuant to the Revised Monitoring and Reporting Program (MRP), ten wells (Groups A1, B1, C, and D) will be gauged for fluid levels and

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sampled. Three of these wells (EWB002, TMW_07, and WCC_12S) are also part of the Site-Wide Program. In addition, though not required by the MRP, one Group B2 well (WCC_06S) is also a part of the Site-Wide program and will be gauged and sampled in March 2008. Finally, although the Group A2 wells have not been used for amendment injection and gauging/monitoring of the Groups A2 and B2 wells is not required, pursuant to comments received on the February SAP, these four wells are included in the March 2008 gauging program. The details of this program are presented in Table 1.

Baseline Building 2 WDR Monitoring - Pursuant to the Revised Monitoring and Reporting Program (MRP), six wells (Groups B, C, and D) will be gauged for fluid levels and sampled. All six of these wells are also part of the Site-Wide Program. The details of this program are presented in Table 2.

Annual Site-Wide Groundwater Monitoring – Pursuant to the 2008 Work Plan, 68 wells will be gauged for fluid levels and 63 wells are scheduled for sampling. Ten of these wells are also part of the Building 1/36 or Building 2 WDR programs and will be gauged and sampled in accordance with MCP requirements. The details of the Annual sampling program are presented in Table 3.

The scope of work includes all tasks associated with collecting the field measurements and laboratory samples required to comply with the WDR Order and 2008 Work Plan. In brief, these activities will include water level measurements, groundwater well purging and sampling, and sample analyses. Specifically, the March 2008 groundwater monitoring activities will include the following:

- Prior to any disturbance, depth to groundwater will be measured to the nearest one-hundredth of a foot in each of the 78 wells using a Solinst (or equivalent) well sounder. Monitoring well vapor concentrations will be measured with a photoionization detector (PID) following removal of the well cap. All water level measurements will be collected within a single 24-hour period using calibrated water level sounders. Water levels in wells with submerged screens that are noted to be under pressure upon removal of the well cap will be allowed time to stabilize prior to water level gauging.
- Historically, groundwater sampling conducted for site characterization has been performed using traditional (i.e., three to five wetted casing volumes) purging methods, whereas WDR sampling has been performed using low-flow (i.e., minimal drawdown) purging methods. On January 15, 2008, a letter presenting a comparison of historical VOC analytical results for several wells sampled using both low-flow and traditional purging methods was submitted to the LARWQCB. The comparison revealed a good correlation between sampling methods, and the report stated Boeing's intention to transition to the low-flow sampling method for all wells beginning with the March 2008 groundwater monitoring event. Boeing's request to transition the Site-Wide

Program to the low-flow purging and sampling method was formally approved by the LARWQCB in a letter dated March 4, 2008 (LARWQCB, March 4, 2008).

- Groundwater samples will be collected from 17 WDR wells (including WCC_06S) during the March 2008 monitoring event (Tables 1 and 2). 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 100 and 500 milliliters (ml/min), dependent on site-specific and well-specific factors as drawdown is not to exceed 0.5 feet in any well. For wells purged at rates in excess of 100 ml/min, the flow rate will be reduced to 100 ml/min or less prior to collection of samples for volatile organic compounds (VOCs) analysis.

- Groundwater samples are scheduled for collection from 54 non-WDR wells during the March 2008 monitoring event (Table 3). Since the LARWQCB approved Boeing's request to transition the Site-Wide program to the low-flow method, the wells will be purged for sampling using the low-flow method described in the previous bullet.

- During purging, water quality indicator parameters, including pH, temperature, specific conductance, DO, and redox potential, will be measured in a closed flow-through cell to determine when purging is complete and sampling can commence. Turbidity measurements will be recorded at the same time that chemical parameter measurements are made. The indicator parameters will be measured using a Horiba U-22XD (or equivalent) multi-parameter water quality instrument equipped with a flow-through cell. The Horiba U-22XD will be calibrated in accordance with the manufacturer's instructions. As an additional calibration check, at least 10 percent of the dissolved oxygen measurements will be field checked using a CHEMetrics test kit. Finally, the WDR wells will be monitored for ferrous iron (Fe[II]) and the four Gage aquifer wells will be monitored for hydrogen sulfide (H_2S) using a Hach DR890 Colorimeter.

- Purging will be deemed complete when three consecutive indicator parameter measurements fall within the following ranges: ±0.2 pH units; ±3 percent of the specific conductance measurement or 0.02 milliSiemen per centimeter (mS/cm), whichever is greater; ±10 percent of the DO reading or ±0.2 mg/L, whichever is greater; ±20 millivolts (mV) for redox potential measurements; and ±10 percent of the turbidity measurement or ±1.0 nephelometric unit (NTU), whichever is greater.

- 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, and submitted to appropriately-certified environmental testing laboratories. Samples from the WDR wells will be analyzed for one or more of the following as detailed in Tables 1 and 2:

- 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);
- anions (sulfate, nitrate, nitrite, and chloride by EPA Method 300 Series);
- total alkalinity (EPA Method 310.1);
- total dissolved solids (EPA Method 160.1) and
- Quantitative Polymerase Chain Reaction (qPCR) analysis for DHC 16S rRNA gene and functional genes tceA, bvcA, and vcrA (North Wind, Inc., Pocatello, ID).

Samples from the non-WDR wells will be analyzed for volatile organic compounds using EPA Method 8260B (Table 3). In addition, samples from the four Gage aquifer wells will be analyzed for anions (sulfate, nitrate, nitrite, and chloride by EPA Method 300 Series) and dissolved hydrocarbon gases (ethene, ethane, and methane by RSK 175).

Closing Remarks

Ground water monitoring is scheduled to begin at the site on Monday, March 24, 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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Tables

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Table 1
March 2008 Building 1/36 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 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															
AW0066UB	A1	Upper B-Sand	202,340	14	x	x	x	x	x	x	x	x			First Quarterly Monitoring Event
AW0067UB	A1	Upper B-Sand	10,430	4	x	x	x	x	x	x	x	x			First Quarterly Monitoring Event
AW0064UB	A2	Upper B-Sand	11,213	7	x										Water level measurement only
AW0065UB	A2	Upper B-Sand	86,600	13	x										Water level measurement only
Group B Wells															
AW0075UB	B1	Upper B-Sand	11,072	5	x	x	x	x	x	x	x	x		x	Third Monthly Monitoring Event
AW0076UB	B1	Upper B-Sand	84,878	12	x	x	x	x	x	x	x	x		x	Third Monthly Monitoring Event
AW0077UB	B1	B-Sand	66,950	11	x	x	x	x	x	x	x	x		x	Third Monthly Monitoring Event
EWB002	B1	B-Sand	66,066	10	x	x	x	x	x	x	x	x		x	Sitewide & Third Monthly Monitoring Event
AW0073C	B1	C-Sand	14,465	8	x	x	x	x	x	x	x	x		x	Third Monthly Monitoring Event
WCC_06S	B2	B-Sand	11,205	6	Monitored Under the Sitewide Program - See Table 3										Sitewide Monitoring program
AW0074UB	B2	Upper B-Sand	5,005	3	x										Water level measurement only
Group C Wells															
TMW_07	C	B-Sand	1,725	2	x	x	x	x	x	x	x	x	x		Sitewide & First Quarterly Monitoring Event
WCC_12S	C	B-Sand	163	1	x	x	x	x	x	x	x	x	x		Sitewide & First Quarterly Monitoring Event
Group D Well															
AW0055UB	D	Upper B-Sand	49,067	9	x	x	x	x	x	x	x	x	x		First Quarterly Monitoring Event
Quality Control Samples															
Duplicates (1 per 20 wells)							x (est. 1)								
Rinsate Blanks (1 per day)							x (est. 2)								
Trip Blanks (1 per cooler)							x (est. 2)								
			Totals:		14	10	15	10	10	10	10	10	3	5	

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
March 2008 Building 2 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 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	694	2	x	x	x	x	x	x	x	x		x	Sitewide & Baseline Monitoring Event
IRZCMW003	B	C-Sand	8,276	6	x	x	x	x	x	x	x	x		x	Sitewide & Baseline Monitoring Event
IRZCMW002	B	C-Sand	1,570	3	x	x	x	x	x	x	x	x		x	Sitewide & Baseline Monitoring Event
MWC024	B	C-Sand	4,295	5	x	x	x	x	x	x	x	x		x	Sitewide & Baseline Monitoring Event
Group C Wells															
CMW002	C	B-Sand	366	1	x	x	x	x	x	x	x	x	x	x	Sitewide & Baseline Monitoring Event
Group D Well															
IRZCMW001	D	B-Sand	2,286	4	x	x	x	x	x	x	x	x	x	x	Sitewide & Baseline Monitoring Event
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. 1)								
			Totals:		6	6	9	6	6	6	6	6	2	6	

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 3
March 2008 Sitewide Groundwater Monitoring Program
BCRE Former C-6 Facility
Los Angeles, California

Well ID	Water-Bearing Unit	Total Select VOCs Concentration (ug/l)	Sampling Order	March 2008 Annual Event Analytical Program					Comments
				Water Level Gauging	VOCs (8260B)	Field Parameters[1]	Ferrous Iron?	WDR Analyses?	
B-Sand Monitoring Wells									
BL-03	B-Sand	488	33	x	x	x			
DAC-P1	B-Sand	7,717	58	x	x	x			
EWB001	B-Sand	1,351	37	x	x	x			
EWB002	B-Sand	66,066	67	x	x	x	Yes	Yes[6]	Monitored under Building 1/36 WDR Program
MW0005	B-Sand	1,946	45	x	x	x			
MWB003	B-Sand	11,608	62	x	x	x			
MWB006	B-Sand	242,900	68	x	x	x			
MWB007	B-Sand	3,811	53	x	x	x			
MWB012	B-Sand	377	29	x	x	x			
MWB013	B-Sand	12	3	x	x	x			
MWB014	B-Sand	282	26	x	x	x			
MWB019	B-Sand	343	27	x	x	x			
MWB020	B-Sand	36	13	x	x	x			
MWB027	B-Sand	557	34	x	x	x			
MWB028	B-Sand	1,066	36	x	x	x			
TMW_04	B-Sand	1,386	38	x					Water level measurement only
TMW_06	B-Sand	159	20	x	x	x			
TMW_07	B-Sand	1,725	44	x	x	x	Yes	Yes[6]	Monitored under Building 1/36 WDR Program
TMW_08	B-Sand	5,107	57	x	x	x			
TMW_10	B-Sand	15	7	x	x	x			
TMW_11	B-Sand	16	8	x	x	x			
TMW_14	B-Sand	13	5	x	x	x			
TMW_15	B-Sand	26	12	x	x	x			
WCC_03S	B-Sand	11,020	60	x	x	x			
WCC_04S	B-Sand	3,725	51	x	x	x			
WCC_05S	B-Sand	15	6	x	x	x			
WCC_06S	B-Sand	11,205	61	x	x	x	Yes		Monitored under Building 1/36 WDR Program[2]
WCC_07S	B-Sand	416	30	x	x	x			
WCC_09S	B-Sand	61	16	x	x	x			
WCC_12S	B-Sand	163	21	x	x	x	Yes	Yes[6]	Monitored under Building 1/36 WDR Program
XMW-09	B-Sand	60	15	x	x	x			
XMW-19	B-Sand	12	4	x	x	x			
C-Sand Monitoring Wells									
CMW001	C-Sand	171	23	x	x	x			
CMW002	C-Sand	366	28	x	x	x	Yes	Yes[5]	Monitored under Building 2 WDR Program
CMW026	C-Sand	694	35	x	x	x	Yes	Yes[5]	Monitored under Building 2 WDR Program
EWC001	C-Sand	46,210	66	x	x	x			
EWC002	C-Sand	4,306	56	x	x	x			
IWC001	C-Sand	2,672	49	x	x	x			
IWC002	C-Sand	3,585	50	x	x	x			
MWC004	C-Sand	438	31	x	x	x			
MWC006	C-Sand	16	9	x	x	x			
MWC007	C-Sand	11	2	x	x	x			
MWC009	C-Sand	214	25	x	x	x			
MWC011	C-Sand	53	14	x	x	x			
MWC015	C-Sand	1,628	42	x	x	x			
MWC016	C-Sand	1,435	39	x	x	x			
MWC017	C-Sand	1,586	41	x	x	x			
MWC021	C-Sand	18	10	x	x	x			
MWC022	C-Sand	103	17	x	x	x			
MWC023	C-Sand	3,795	52	x	x	x			
MWC024	C-Sand	4,295	55	x	x	x	Yes	Yes[5]	Monitored under Building 2 WDR Program
Gage Monitoring Wells									
MWG001	Gage	109	18	x	x	x	Yes[4]		
MWG002	Gage	166	22	x	x	x	Yes[4]		
MWG003	Gage	9	1	x	x	x	Yes[4]		
MWG004	Gage	24	11	x	x	x	Yes[4]		

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Table 3
March 2008 Sitewide Groundwater Monitoring Program
BCRE Former C-6 Facility
Los Angeles, California

Well ID	Water-Bearing Unit	Total Select VOCs Concentration (ug/l)	Sampling Order	March 2008 Annual Event Analytical Program					Comments
				Water Level Gauging	VOCs (8260B)	Field Parameters[1]	Ferrous Iron?	WDR Analyses?	
Bioremediation Monitoring Wells									
IRZB0081	B-Sand	1,665	43	x	x	x			
IRZB0095	B-Sand	2,481	48	x	x	x			
IRZMW001A	B-Sand	17,342	64	x	x	x			
IRZMW001B	B-Sand	474	32	x	x	x			
IRZMW002A	B-Sand	12,379	63	x					Water level measurement only
IRZMW002B	B-Sand	146	19	x					Water level measurement only
IRZMW003A	B-Sand	18,365	65	x					Water level measurement only
IRZMW003B	B-Sand	183	24	x					Water level measurement only
IRZMW004	B-Sand	4,157	54	x	x	x			
IRZMW005	B-Sand	2,207	46	x	x	x			
IRZCMW001	C-Sand	2,286	47	x	x	x	Yes	Yes[5]	Monitored under Building 2 WDR Program
IRZCMW002	C-Sand	1,570	40	x	x	x	Yes	Yes[5]	Monitored under Building 2 WDR Program
IRZCMW003	C-Sand	8,276	59	x	x	x	Yes	Yes[5]	Monitored under Building 2 WDR Program
Building 1/36 WDR Monitoring Wells									
AW0066UB	Upper B-Sand	202,340		x	x[7]	x	Yes	Yes[6]	Monitored under Building 1/36 WDR Program
AW0067UB	Upper B-Sand	10,430		x	x[7]	x	Yes	Yes[6]	Monitored under Building 1/36 WDR Program
AW0064UB	Upper B-Sand	11,213		x					Monitored under Building 1/36 WDR Program
AW0065UB	Upper B-Sand	86,600		x					Monitored under Building 1/36 WDR Program
AW0075UB	Upper B-Sand	11,072		x	x[7]	x	Yes	Yes[6]	Monitored under Building 1/36 WDR Program
AW0076UB	Upper B-Sand	84,878		x	x[7]	x	Yes	Yes[6]	Monitored under Building 1/36 WDR Program
AW0077UB	B-Sand	66,950		x	x[7]	x	Yes	Yes[6]	Monitored under Building 1/36 WDR Program
AW0073C	C-Sand	14,465		x	x[7]	x	Yes	Yes[6]	Monitored under Building 1/36 WDR Program
AW0074UB	Upper B-Sand	5,005		x					Monitored under Building 1/36 WDR Program
AW0055UB	Upper B-Sand	49,067		x	x[7]	x	Yes	Yes[6]	Monitored under Building 1/36 WDR Program
Subtotals		Sitewide Program		59	54	54			
		WDR Program		19	16	16			
Quality Control Samples[3]									
Duplicates (1 per 20 wells)					x (4)				
Rinseate Blanks (1 per day)					x (8)				
Trip Blanks (1 per day)					x (8)				
Totals				78	90	70	21	16	

Notes:
VOCs = volatile organic compounds using EPA Method 8260B
Field Parameters = pH, dissolved oxygen (DO), redox, turbidity, electrical conductivity, and temperature.
(1) As a quality assurance check on DO measurements, 10 percent of the samples will be analyzed in the field using a CHEMetrics, Inc test kit (K-7512 or K-7540).
(2) Well WCC_06S is included in the Building 1/36 WDR, but is not included in the March 2008 sampling event for that program. Samples from this well will only be analyzed for VOCs as designated by the annual sitewide sampling program.
(3) Quality control sample number based on estimated number of sampling days.
(4) Test for ferrous iron and hydrogen sulfide using the Hach DR890 Colorimeter.
(5) Analyze samples in accordance with the Building 2 WDR Program summarized in Table 2.
(6) Analyze samples in accordance with the Building 1/36 WDR Program summarized in Table 1.
(7) Analyze samples for the full suite of Building 1/36 WDR analytes summarized in Table 1.

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Figures

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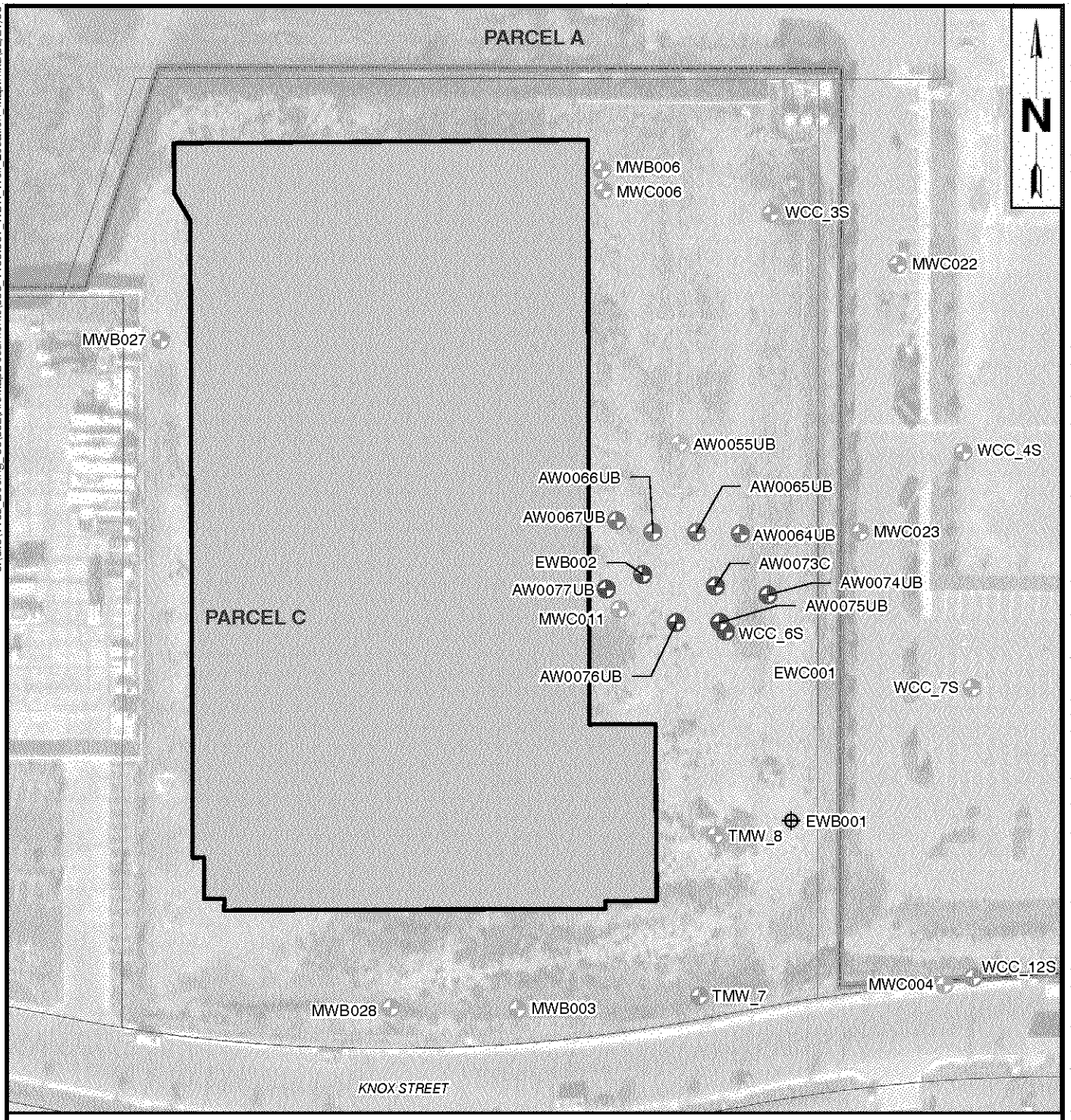
S:\GIS\1155_Boeing_C6\002\ArcMapDocuments\006_1155.001_WDR Well_Location_Map.mxd\02/21/08



LEGEND

- Group A1 WDR Monitoring Well
- Group A2 WDR Monitoring Well
- Group B1 WDR Monitoring Well
- Group B2 WDR Monitoring Well
- Group C WDR Monitoring Well
- Group D WDR Monitoring Well
- Non-WDR Groundwater Monitoring Well
- Pilot Test Groundwater Extraction Well
- 1451 Knox St.
- Parcel Boundary

0 100 200

SCALE

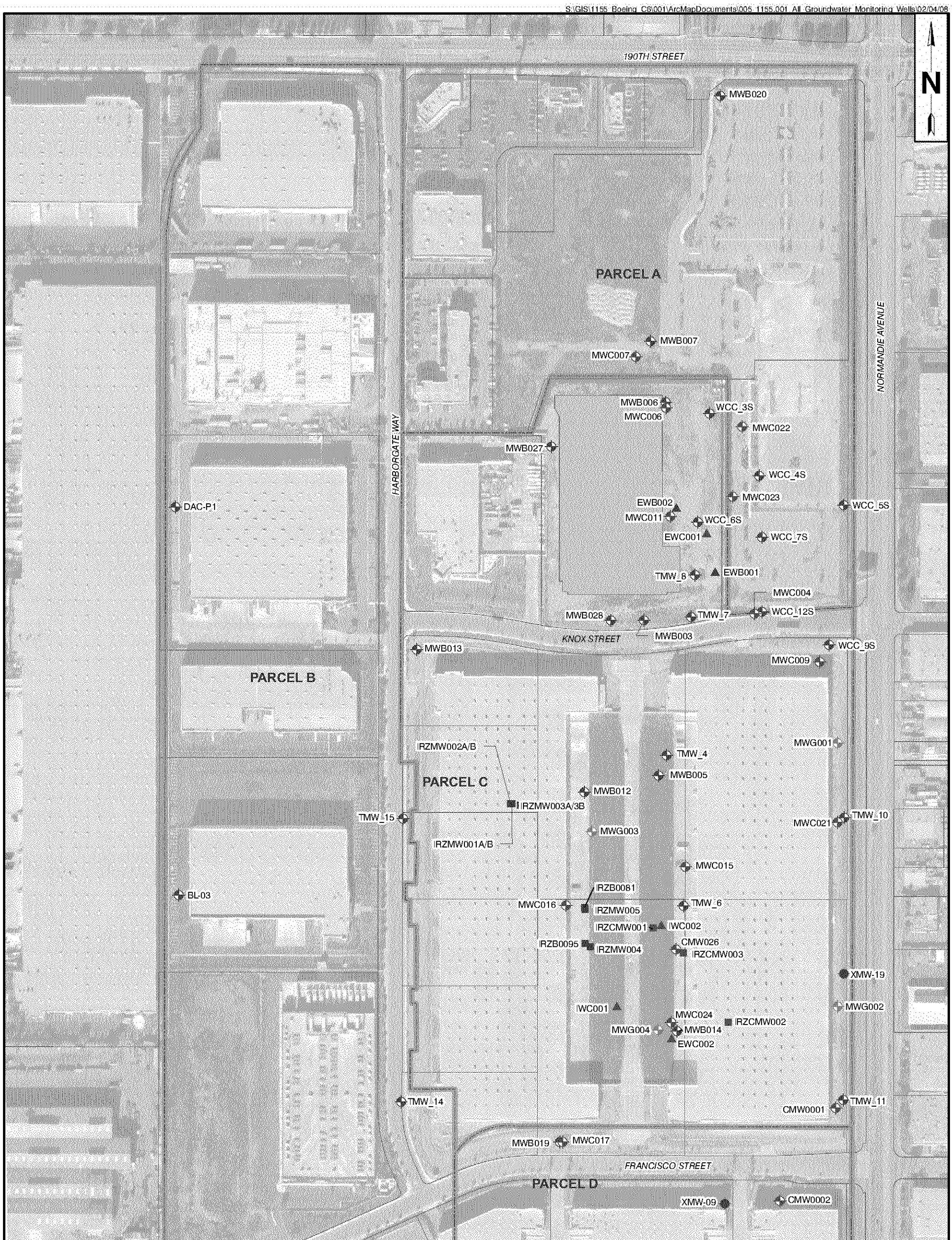
FIGURE 1

BUILDING 1/36 WDR WELL LOCATION MAP

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

AVOCET ENVIRONMENTAL, INC.

S:\GIS\1155_Boeing_C6\001\ArcMapDocuments\005_1155.001_All_Groundwater_Monitoring_Wells\02/04/08



LEGEND

- Parcel Boundary
- 1451 Knox St.
- B-Sand IRZ Bioremediation Monitoring
- C-Sand IRZ Bioremediation Monitoring
- B-Sand Montrose Monitoring Wells
- B-Sand Monitoring Wells
- C-Sand Monitoring Wells
- Gage Monitoring Wells
- C-Sand Observation Wells
- B-Sand Observation Wells

0 250 500
SCALE

FIGURE 2

ALL GROUNDWATER MONITORING WELLS

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

AVOCET ENVIRONMENTAL, INC.

Attachment 2

Field Data Forms

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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	

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.

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.

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	

AVOCET ENVIRONMENTAL, INC.

GROUNDWATER SAMPLING DATA SHEET

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

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

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

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

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

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

Notes: (units) [stabilization criteria]

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

DUP:
DRUM NO:

AVOCET ENVIRONMENTAL, INC.

GROUNDWATER SAMPLING DATA SHEET

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

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

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

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

Time	Flow Controller Settings	Volume Purged (Liters)	Flow Rate (mL/min)	Water Level (ft-bmp)	Temperature (°C) [+/- 10%]	Conductivity (mS/cm) [+/- 10%]	Dissolved Oxygen (mg/L) [+/- 10%]	pH [+/- 0.1 pH]	ORP (mV) [+/- 10%]	Turbidity (NTU) [+/- 10%]	Observations
1055	CPM-4	0	200mL	60.14	23.66	6.16	4.60	6.41	49	882	Cloudy
1058		600		60.02	22.04	6.31	1.26	6.42	43	889	Cloudy
1101		1200		60.05	21.78	6.28	0.96	6.40	39	1470	Cloudy
1104		1800		60.04	21.55	6.28	0.63	6.33	34	869	Cloudy
1107		2400		60.05	21.62	6.25	0.90	6.24	32	670	Cloudy
1110		3000		60.04	21.60	6.25	0.89	6.23	30	695	Cloudy
1113		3600		60.05	21.61	6.24	0.82	6.24	29	692	Cloudy

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

Notes: (units) [stabilization criteria]

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

DUP:
DRUM NO: Bio slim in well can't get turb down

AVOCET ENVIRONMENTAL, INC.

GROUNDWATER SAMPLING DATA SHEET

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

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

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

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

Time	Flow Controller Settings	Volume Purged (Liters)	Flow Rate (mL/min)	Water Level (ft-bmp)	Temperature (°C) [+/- 10%]	Conductivity (mS/cm) [+/- 10%]	Dissolved Oxygen (mg/L) [+/- 10%]	pH [+/- 0.1 pH]	ORP (mV) [+/- 10%]	Turbidity (NTU) [+/- 10%]	Observations
1000	CPM-4	200	200mL/m	59.92	23.42	4.78	6.54	6.22	52	1359	Cloudy
1003		800		59.99	21.62	5.14	0.43	6.09	35	2000	Cloudy
1006		1400		60.01	21.44	5.14	0.46	6.09	25	2000	Cloudy
1009		2000		60.01	21.34	5.14	0.38	6.07	26	2000	Cloudy
1012		2600		60.01	21.32	5.15	0.30	6.10	9	2000	Cloudy
1015		3200		60.02	21.33	5.15	0.30	6.10	8	2000	Cloudy
1018		3800		60.01	21.32	5.16	0.29	6.09	9	2000	Cloudy
	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	200mL	3800	N/A	NA	60.01	1024	AW0067UB_WG20080325_01

Notes: (units) [stabilization criteria]

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

DUP:
DRUM NO: MP30-1

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

AVOCET ENVIRONMENTAL, INC.

GROUNDWATER SAMPLING DATA SHEET

Project Name:	Boeing C-6 GWM - B1/36 WDR	**Date:**	3/25/08
Project No.:	1155.003	**Prepared by:**	SMC
Well Identification:	AW0073C	**Weather:**	Sunny 70's
Measurement Point Description:	TOC	**Pump Intake:**	10ft
		Screen:	96 - 116

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

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

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

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

SMC

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

Notes: (units) [stabilization criteria]
turb won't come down due to injections

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

DUP:
DRUM NO:

AVOCET ENVIRONMENTAL, INC.

GROUNDWATER SAMPLING DATA SHEET

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

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

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

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

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

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

Notes: (units) [stabilization criteria]

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

DUP:
DRUM NO:

AVOCET ENVIRONMENTAL, INC.

GROUNDWATER SAMPLING DATA SHEET

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

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

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

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

Time	Flow Controller Settings	Volume Purged (Liters)	Flow Rate (mL/min)	Water Level (ft-bmp)	Temperature (°C) [+/- 10%]	Conductivity (mS/cm) [+/- 10%]	Dissolved Oxygen (mg/L) [+/- 10%]	pH [+/- 0.1 pH]	ORP (mV) [+/- 10%]	Turbidity (NTU) [+/- 10%]	Observations
0710	250mL/min	200mL/min	200mL/min	60.43	19.52	3.05	3.26	6.44	128	73.2	cloudy
0713	↓	↓	↓	60.43	20.59	3.29	1.33	6.37	107	80.2	cloudy
0716				60.43	20.92	3.27	1.19	6.39	91	84.2	cloudy
0719				60.43	21.10	3.27	1.21	6.41	74	84.7	cloudy
0722				60.43	21.16	3.33	0.79	6.41	60	66.4	cloudy
0725				60.43	21.18	3.37	0.70	6.41	53	57.1	cloudy
0728				60.43	21.20	3.39	0.67	6.41	45	46	cloudy
0731				60.43	21.18	3.39	0.63	6.42	41	46	cloudy
0734				60.43	21.17	3.43	0.59	6.42	32	40.4	cloudy
0737				60.43	21.19	3.42	0.53	6.42	29	18.2	cloudy

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

Notes: (units) [stabilization criteria]

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

DUP:
DRUM NO:

AW0076UB (cont.)

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

Done

AVOCET ENVIRONMENTAL, INC.

Page _____ of _____

GROUNDWATER SAMPLING DATA SHEET

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

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

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

Field Equipment: QED

Purge Method: Micropurge

Well Condition: OK

Time	Flow Controller Settings	Volume Purged (Liters)	Flow Rate (mL/min)	Water Level (ft-bmp)	Temperature (°C) [+/- 10%]	Conductivity (mS/cm) [+/- 10%]	Dissolved Oxygen (mg/L) [+/- 10%]	pH [+/- 0.1 pH]	ORP (mV) [+/- 10%]	Turbidity (NTU) [+/- 10%]	Observations
1130	CPM-4	0	200mL/m	60.64	22.82	2.68	3.45	6.79	70	351	Cloudy
1133	↓	600	↓	61.09	22.90	3.02	0.92	6.79	66	128.1	Cloudy
1136		1200		61.12	22.75	2.91	0.53	6.81	61	811.2	Cloudy
1139		1800		61.13	22.35	2.84	0.43	6.82	57	88.7	Cloudy
1142		2400		61.14	22.26	2.82	0.38	6.83	56	85.3	Cloudy
1145		3000		61.13	22.27	2.81	0.37	6.83	55	84.9	Cloudy
1148		3600		61.12	22.29	2.88	0.38	6.82	56	85.0	Cloudy
	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
1130	1148	200mL	3600	N/A	NA	61.12	1156	AW0077UB_WG20080325_01

(units) [stabilization criteria]

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

DUP:

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

Make 1 Rubber Septa VOA (only 2 now)

AVOCET ENVIRONMENTAL, INC.

GROUNDWATER SAMPLING DATA SHEET

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

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

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

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

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

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

Notes: (units) [stabilization criteria]

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

DUP:
DRUM NO:

AVOCET ENVIRONMENTAL, INC.

GROUNDWATER SAMPLING DATA SHEET

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

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

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

Field Equipment: QED

Purge Method: Micropurge

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

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

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

Notes: (units) [stabilization criteria]

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

DUP:

DRUM NO:

AVOCET ENVIRONMENTAL, INC.

GROUNDWATER SAMPLING DATA SHEET

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

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

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

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

Time	Flow Controller Settings	Volume Purged (Liters)	Flow Rate (mL/min)	Water Level (ft-bmp)	Temperature (°C) [+/- 10%]	Conductivity (mS/cm) [+/- 10%]	Dissolved Oxygen (mg/L) [+/- 10%]	pH [+/- 0.1 pH]	ORP (mV) [+/- 10%]	Turbidity (NTU) [+/- 10%]	Observations
1237	10/5 @ 50psi		250	58.67	22.33	1.71	5.11	7.27	29	35.1	colorless
1240	↓		↓	–	21.55	1.70	5.10	7.25	31	10.2	"
1243				–	21.48	1.70	5.10	7.24	33	2.74	"
1247				–	22.01	1.71	5.05	7.25	37	2.02	"
1251				–	21.44	1.71	5.02	7.25	41	1.79	"
1254				–	21.41	1.71	5.02	7.25	46	1.69	"
1257				–	21.43	1.71	5.01	7.25	48	1.47	"
1300				–	21.42	1.71	5.01	7.25	49	1.42	"
1303					21.42	1.71	5.00	7.24	50	1.40	"
1306	↓		↓	58.71	21.42	1.71	4.99	7.25	51	1.41	"

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

Notes: (units) [stabilization criteria]

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

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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:	ZMC
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.)
NA	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
ZMC											

Purge Start Time	Purge End Time	Average Flow (mL/min)	Total Volume Purged (Liters)	Total Casing Volumes Purged	80% Recovery Water Level Depth (Dx0.20) + B	Water Level at Sampling Time (ft bmp)	Sample Collection Time	Sample Identification
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	

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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	**Field Equipment:** QED
F - **Gallons per foot of casing**	0.02	0.16	0.65	1.47	**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
0730	CPM: 4	0	200mL	59.25	20.36	0.553	6.45	6.81	-124	24.0	clear
0733	↓	600	↓	59.32	21.08	1.112	1.47	6.75	-118	11.9	clear
0736		1200		59.36	21.14	1.226	0.40	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	6.89	-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)	DUP:
	1.69	3.1 ppm		DRUM NO:

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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 = – 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	59.52	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: B/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	cam-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	

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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	

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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:	MC
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	63.56	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	CPM-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
MC											

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:

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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:**	104.75
		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	7.28	-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	

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GROUNDWATER SAMPLING DATA SHEET

Project Name:	Boeing C-6 GWM - Sitewide	**Date:**	3/26/08
Project No.:	1155.003	**Prepared by:**	Eme
Well Identification:	EWC001	**Weather:**	Sunny 70's
Measurement Point Description:	TOC	**Pump Intake:**	109.5
		Screen:	97 - 122

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	122		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:

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
1340	CPM-1	0	200mL	59.45	24.26	1.38	2.36	7.26	110	34.4	cloudy
1343		600		59.48	22.98	1.350	1.80	7.19	-15	10.7	clear
1346		1200		59.49	22.81	1.295	1.64	7.18	-21	9.6	clear
1349		1800		59.48	22.64	1.346	1.36	7.13	-24	6.7	clear
1352		2400		59.48	22.43	1.340	1.35	7.12	-23	1.9	clear
1355		3000		59.48	22.64	1.341	1.34	7.12	-24	1.6	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
1340	1355	2000	3000	N/A	NA	59.48	1400	EWC001_WG20080326_01

Notes: (units) [stabilization criteria]

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

DUP:

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GROUNDWATER SAMPLING DATA SHEET

Project Name:	Boeing C-6 GWM - Sitewide	**Date:** 3/26/08	
Project No.:	1155.003	**Prepared by:** BCB	
Well Identification:	MWB007	**Weather:** Clear / Windy	
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.)
—	57.95	89.85		—	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: 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
1412	10/5 @ 70psi		200	57.95	23.36	1.74	2.63	7.15	-5	1.23	colorless
1415	↓		↓	—	22.91	1.82	2.37	7.13	19	1.17	"
1418				—	22.07	1.87	2.30	7.14	34	0.99	"
1421				—	22.01	1.91	2.31	7.15	38	0.92	"
1424				—	21.98	1.94	2.33	7.16	42	1.11	"
1427				—	21.95	1.96	2.32	7.15	47	0.95	"
1430				—	21.96	1.99	2.32	7.15	50	0.88	"
1433				—	21.95	2.00	2.31	7.16	52	0.75	"
1436				—	21.93	2.05	2.31	7.16	57	0.81	"
1439	↓		↓	57.95	21.94	2.09	2.30	7.15	59	0.83	"

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
1412	1439	200	5.4	N/A	NA	57.95	1439	MWB007_WG2008 0326 01

Notes: (units) [stabilization criteria]

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

DUP:
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GROUNDWATER SAMPLING DATA SHEET

Project Name:	Boeing C-6 GWM - Sitewide	**Date:** 3/26/08	
Project No.:	1155.003	**Prepared by:** BCB	
Well Identification:	MWB020	**Weather:** Overcast / Cool	
Measurement Point Description:	TOC-N	**Pump Intake:** 80	**Screen:** 59.5 - 89.5

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.)
–	57.15				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: 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
0911	10/5 @ 65 psi		250	57.15	21.44	1.81	2.91	7.04	3	4.51	colorless/odorless
0914				–	21.48	1.83	2.89	7.07	7	4.57	"
0917				–	21.57	1.83	2.88	7.08	19	5.46	"
0920				–	21.54	1.83	2.87	7.09	27	5.43	"
0923				–	21.57	1.83	2.34	7.07	45	5.44	"
0926				–	21.59	1.82	2.82	7.09	46	5.79	"
0929				–	21.60	1.83	2.83	7.09	49	5.67	"
0932				–	21.59	1.84	2.80	7.09	53	5.51	"
0935				–	21.59	1.83	2.79	7.08	54	5.59	"
0938				57.11	21.58	1.84	2.78	7.09	56	5.54	"

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
0911	0938	250	6.75	N/A	NA	57.11	0938	MWB020_WG20080326_01

Notes: (units) [stabilization criteria]

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

DUP:
DRUM NO:

AVOCET ENVIRONMENTAL, INC.

GROUNDWATER SAMPLING DATA SHEET

Project Name:	Boeing C-6 GWM - Sitewide	**Date:**	3/26/08
Project No.:	1155.003	**Prepared by:**	EMC
Well Identification:	MWB028	**Weather:**	Sunny 76's
Measurement Point Description:	TOC	**Pump Intake:** 77.5	**Screen:** 65 - 90

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	63.94	90	26.04	NA	N/A	N/A	N/A	N/A

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

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

Time	Flow Controller Settings	Volume Purged (Liters)	Flow Rate (mL/min)	Water Level (ft-bmp)	Temperature (°C) [+/- 10%]	Conductivity (mS/cm) [+/- 10%]	Dissolved Oxygen (mg/L) [+/- 10%]	pH [+/- 0.1 pH]	ORP (mV) [+/- 10%]	Turbidity (NTU) [+/- 10%]	Observations
1215	CPM-4	200	200mL	63.94	24.23	1.359	7.57	7.36	125	15.4	clear
1218		600		63.97	23.65	1.406	4.86	7.32	32	7.31	clear
1221		1200		63.96	22.92	14.07	4.72	7.28	41	8.1	clear
1224		1800		63.97	22.23	1.415	4.87	7.22	32	7.6	clear
1227		2400		63.96	22.33	1.417	4.90	7.21	34	7.7	clear
1230		3000		63.97	22.34	1.416	4.89	7.26	31	7.6	clear
1233		3600		63.96	22.31	1.417	4.89	7.19	29	7.6	clear
1236		4200		63.97	22.33	1.420	4.90	7.20	30	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
1215	1236	200	4200	N/A	NA	63.97	1242	MWB028_WG20080326_01

Notes: (units) [stabilization criteria]

Field Parameters		
Ferrous Iron (mg/L)	PID (ppm):	Chemetrics D.O.(mg/L)
0.37	—	

DUP:
DRUM NO:

AVOCET ENVIRONMENTAL, INC.

GROUNDWATER SAMPLING DATA SHEET

Project Name:	Boeing C-6 GWM - Sitewide	**Date:**	3/26/08
Project No.:	1155.003	**Prepared by:**	DCB
Well Identification:	MWC004	**Weather:**	Warm / Windy
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.)
—	59.03	113.85	54.82	—	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: Good

Time	Flow Controller Settings	Volume Purged (Liters)	Flow Rate (mL/min)	Water Level (ft-bmp)	Temperature (°C) [+/- 10%]	Conductivity (mS/cm) [+/- 10%] 1.073	Dissolved Oxygen (mg/L) [+/- 10%]	pH [+/- 0.1 pH]	ORP (mV) [+/- 10%]	Turbidity (NTU) [+/- 10%]	Observations
1315	10/5 @ 70psi		250	59.03	26.07	1.073	2.68	10.12	-216	5.46	colorless / odorless
1318				–	22.65	0.851	1.56	7.77	-167	3.84	"
1321				–	22.45	0.854	1.09	7.52	-151	3.51	"
1324				–	22.39	0.856	0.63	7.41	-123	3.33	"
1327				–	22.38	0.859	0.37	7.43	-117	1.79	"
1330				–	22.39	0.857	0.30	7.43	-115	1.34	"
1333				–	22.37	0.857	0.25	7.43	-114	2.54	"
1336				–	22.38	0.860	0.22	7.42	-113	1.95	"
1339				–	22.39	0.862	0.20	7.43	-111	2.02	"
1342				59.07	22.38	0.861	0.19	7.42	-109	1.99	"

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
1315	1342	250	6.75	N/A	NA	59.07	1342	MWC004_WG2008 0326_01

Notes: (units) [stabilization criteria]

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

DUP:
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GROUNDWATER SAMPLING DATA SHEET

Project Name:	Boeing C-6 GWM - Sitewide	**Date:**	3/26/08
Project No.:	1155.003	**Prepared by:**	ZMC
Well Identification:	MWC006	**Weather:**	Sunny 60s
Measurement Point Description:	TOC	**Pump Intake:**	105
		Screen:	95 - 115

A	B	C	D = C - B	E = B - A	G = D x F	H = 20 x F	I = – B x F	
Depth to LNAPL (ft-bmp)	**Depth to Static Water Level** (ft-bmp)	**Well Total Depth** (ft-bmp)	**Water Column Height** (ft)	**LNAPL Thickness** (ft)	**One Casing Volume** (gallons)	**Screen Volume** (gallons)	**Above Screen Volume** (gal.)	**Total Purge Volume** (gal.)
NA	60.78	115	54.22	NA	N/A	N/A	N/A	N/A

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

Field Equipment: QED

Purge Method: Micropurge

Well Condition: OK

Time	Flow Controller Settings	Volume Purged (Liters)	Flow Rate (mL/min)	Water Level (ft-bmp)	Temperature (°C) [+/- 10%]	Conductivity (mS/cm) [+/- 10%]	Dissolved Oxygen (mg/L) [+/- 10%]	pH [+/- 0.1 pH]	ORP (mV) [+/- 10%]	Turbidity (NTU) [+/- 10%]	Observations
1110	CPM-4	6	200mL	60.82	23.34	0.798	6.24	7.00	-157	42	cloudy
1113		600		60.81	23.51	0.781	2.74	7.08	-246	21	cloudy
1116		1200		60.81	23.60	0.789	1.56	7.18	-256	20.6	clear
1119		1800		60.80	23.44	0.794	0.81	7.29	-261	9.5	clear
1122		2460		60.81	23.43	0.795	0.62	7.30	-262	8.9	clear
1125		3000		60.80	23.42	0.794	0.61	7.29	-261	8.8	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
1110	1125	200	3000	N/A	NA	60.80	1130	MWC006_WG2008 0326 _01

Notes: (units) [stabilization criteria]

Field Parameters		
Ferrous Iron (mg/L)	PID (ppm):	Chemetrics D.O.(mg/L)
0.26	0.4 ppm	

DUP:

DRUM NO:

AVOCET ENVIRONMENTAL, INC.

GROUNDWATER SAMPLING DATA SHEET

Project Name:	Boeing C-6 GWM - Sitewide	Date: 3/26/08	
Project No.:	1155.003	Prepared by: BCB	
Well Identification:	MWC007	Weather: Overcast / Cold	
Measurement Point Description:	TOC-N	Pump Intake: COS	Screen: 97 - 117

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.)
–	58.18	119	60.82	–	N/A	N/A	N/A	N/A

	Gallons/Foot				
Well Diameter (inches) = 4	0.75	2	(4)	6	Field Equipment: QED
F - Gallons per foot of casing	0.02	0.16	0.65	1.47	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
0759	10/5 @ 75psi		250	58.18	20.81	0.946	3.01	6.76	-108	6.77	colorless/odorless
0802	↓		↓	–	21.37	0.958	1.60	7.24	-92	5.71	"
0805				–	21.48	0.964	1.22	7.26	-75	5.94	"
0808				–	21.47	0.964	0.80	7.27	-87	5.36	"
0811				–	21.51	0.962	0.61	7.29	-93	5.27	"
0814				–	21.52	0.965	0.44	7.31	-95	5.74	"
0817				–	21.49	0.969	0.27	7.33	-119	5.21	"
0820				–	21.53	0.970	0.22	7.34	-124	5.35	"
0823				–	21.55	0.971	0.20	7.35	-131	5.31	"
0826	⊥		⊥	58.24	21.58	0.972	0.19	7.35	-135	5.29	"

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
0759	0826	250	6.75	N/A	NA	58.24	0826	MWC007_WG20080326_01

Notes: (units) [stabilization criteria]	Field Parameters			DUP:
	Ferrous Iron (mg/L)	PID (ppm):	Chemetrics D.O.(mg/L)	DRUM NO:

AVOCET ENVIRONMENTAL, INC.

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GROUNDWATER SAMPLING DATA SHEET

Project Name:	Boeing C-6 GWM - Sitewide	Date:	3/26/08
Project No.:	1155.003	Prepared by:	TMC
Well Identification:	MWC011	Weather:	Sunny 70s
Measurement Point Description:	TOC	Pump Intake:	104
		Screen:	94 - 114

A	B	C	D = C - B	E = B - A	G = D x F	H = 20 x F	I = – B x F	
Depth to LNAPL (ft-bmp)	Depth to Static Water Level (ft-bmp)	Well Total Depth (ft-bmp)	Water Column Height (ft)	LNAPL Thickness (ft)	One Casing Volume (gallons)	Screen Volume (gallons)	Above Screen Volume (gal.)	Total Purge Volume (gal.)
NA	60.89	114	53.11	NA	N/A	N/A	N/A	N/A

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

Field Equipment: QED

Purge Method: Micropurge

Well Condition: GV

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
1145	CPM-4	0	200mL	60.96	23.44	0.866	3.34	7.38	113	571	cloudy
1148		600		60.97	21.97	0.931	0.93	7.40	-115	501	cloudy
1151		1200		60.98	21.73	0.931	0.69	7.46	-56	509	cloudy
1154		1800		60.96	21.72	0.930	0.76	7.41	-58	510	cloudy
1157		2400		60.97	21.73	0.929	0.69	7.42	-60	510	cloudy
1200		3000		60.97	21.73	0.930	0.68	7.47	-61	516	cloudy
	TMC										

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
1145	1200	200	3008	N/A	NA	60.97	1206	MWC011_WG2008~~0325~~_01

Notes: (units) [stabilization criteria]

Turbidity won't stabilize due to injections

Field Parameters		
Ferrous Iron (mg/L)	PID (ppm):	Chemetrics D.O.(mg/L)
0.02	4.2 ppm	

DUP:

DRUM NO:

AVOCET ENVIRONMENTAL, INC.

GROUNDWATER SAMPLING DATA SHEET

Project Name:	Boeing C-6 GWM - Sitewide	Date:	3/26/08
Project No.:	1155.003	Prepared by:	BCB
Well Identification:	MWC022	Weather:	Overcast / cool
Measurement Point Description:	TOC-N	Pump Intake:	C05
		Screen:	97 - 117

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.)
–	58.41	116	57.59	–	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: 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
0957	10/5 @ 65psi		200	58.41	21.96	1.84	2.97	7.08	39	6.08	colorless/odorless
1000	↓		↓	–	22.57	0.854	1.82	8.37	-192	2.43	"
1003				–	22.70	0.856	0.91	7.45	-143	2.21	"
1006				–	22.81	0.841	0.75	7.38	-135	1.77	"
1009				–	22.78	0.847	0.53	7.36	-109	1.30	"
1012				–	22.79	0.855	0.40	7.42	-93	1.39	"
1015				–	22.79	0.860	0.33	7.40	-79	1.35	"
1018				–	22.79	0.857	0.29	7.42	-75	1.67	"
1021				–	22.77	0.858	0.27	7.40	-73	1.75	"
1024			200	58.45	22.76	0.862	0.25	7.37	-71	1.69	"

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
0957	1024	250	5.4	N/A	NA	58.45	1024	MWC022_WG20080326_01

Notes: (units) [stabilization criteria]

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

DUP:
DRUM NO:

AVOCET ENVIRONMENTAL, INC.

GROUNDWATER SAMPLING DATA SHEET

Project Name:	Boeing C-6 GWM - Sitewide	**Date:**	3/24/08
Project No.:	1155.003	**Prepared by:**	Gmc
Well Identification:	TMW_08	**Weather:**	Sunny 70s
Measurement Point Description:	TOC	**Pump Intake:**	**Screen:** 61 - 81

A	B	C	D = C - B	E = B - A	G = D x F	H = 20 x F	I = – B x F	
Depth to LNAPL (ft-bmp)	**Depth to Static Water Level** (ft-bmp)	**Well Total Depth** (ft-bmp)	**Water Column Height** (ft)	**LNAPL Thickness** (ft)	**One Casing Volume** (gallons)	**Screen Volume** (gallons)	**Above Screen Volume** (gal.)	**Total Purge Volume** (gal.)
NA	61.02	81	19.98	NA	N/A	N/A	N/A	N/A

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

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

Time	Flow Controller Settings	Volume Purged (Liters)	Flow Rate (mL/min)	Water Level (ft-bmp)	Temperature (°C) [+/- 10%]	Conductivity (mS/cm) [+/- 10%]	Dissolved Oxygen (mg/L) [+/- 10%]	pH [+/- 0.1 pH]	ORP (mV) [+/- 10%]	Turbidity (NTU) [+/- 10%]	Observations
1305	CPM-4	0	200mL	61.09	23.21	1.411	8.29	7.22	131	5.8	clear
1308		600		61.10	23.28	1.79	2.35	7.12	41	2.9	clear
1311		1200		61.10	22.42	1.83	0.74	7.09	-26	2.4	clear
1314		1800		61.11	22.54	1.83	0.42	7.08	-146	3.6	clear
1317		2400		61.10	22.53	1.83	0.52	7.07	-151	3.1	clear
1320		3000		61.09	22.54	1.83	0.57	7.08	-150	2.9	clear
1323		3600		61.10	22.53	1.82	0.54	7.07	-151	2.8	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
1305	1323	200	3600	N/A	NA	61.10	1327	TMW_08_WG20080326_01

Notes: (units) [stabilization criteria]

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

DUP:
DRUM NO:

AVOCET ENVIRONMENTAL, INC.

GROUNDWATER SAMPLING DATA SHEET

Project Name:	Boeing C-6 GWM - Sitewide	**Date:**	3/26/08
Project No.:	1155.003	**Prepared by:**	BCB
Well Identification:	WCC_04S	**Weather:**	Clear / Warm
Measurement Point Description:	TOC-N	**Pump Intake:**	COS
		Screen:	70.5 - 90.5

A	B	C	D = C - B	E = B - A	G = D x F	H = 20 x F	I = – B x F	
Depth to LNAPL (ft-bmp)	Depth to Static Water Level (ft-bmp)	Well Total Depth (ft-bmp)	Water Column Height (ft)	LNAPL Thickness (ft)	One Casing Volume (gallons)	Screen Volume (gallons)	Above Screen Volume (gal.)	Total Purge Volume (gal.)
—	59.08	90.15		—	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: 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
1059	10/5 @ 70%		250	59.08	23.32	0.871	2.67	7.19	-18	2.08	colorless/odorless
1102	↓		↓	—	23.00	2.28	2.22	6.97	13	1.32	"
1105				—	22.97	2.28	2.15	6.96	27	1.54	"
1108				—	22.98	2.29	2.31	6.96	35	1.09	"
1111				—	22.98	2.29	2.05	6.96	41	0.85	"
1114				—	22.96	2.29	2.04	6.97	43	1.08	"
1117				—	22.94	2.28	2.03	6.97	48	0.97	"
1120				—	22.99	2.29	2.03	6.96	50	0.74	"
1123				—	22.95	2.29	2.04	6.97	51	0.69	"
1126				59.13	22.94	2.28	2.03	6.97	50	0.61	"

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
1059	1126	250	6.75	N/A	NA	~~1126~~ 59.13	1126	WCC_04S_WG20080326_01

Notes: (units) [stabilization criteria]

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

DUP:

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GROUNDWATER SAMPLING DATA SHEET

Project Name:	Boeing C-6 GWM - B1/36 WDR	**Date:**	3/26/08
Project No.:	1155.003	**Prepared by:**	EMC
Well Identification:	WCC_06S	**Weather:**	Sunny 70's
Measurement Point Description:	TOC	**Pump Intake:** 75	**Screen:** 60 - 90

A	B	C	D = C - B	E = B - A	G = D x F	H = 30 x F	I = – B x F	
Depth to LNAPL (ft-bmp)	**Depth to Static Water Level** (ft-bmp)	**Well Total Depth** (ft-bmp)	**Water Column Height** (ft)	**LNAPL Thickness** (ft)	**One Casing Volume** (gallons)	**Screen Volume** (gallons)	**Above Screen Volume** (gal.)	**Total Purge Volume** (gal.)
NA	59.52	90		NA	N/A	N/A	N/A	N/A

	Gallons/Foot				
Well Diameter (inches) = 4	0.75	2	4	6	**Field Equipment:** QED
F - **Gallons per foot of casing**	0.02	0.16	0.65	1.47	**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
1410	CPM-4	0	200	59.35	22.97	1.55	2.30	7.12	20	17.5	cloudy
1413		600		59.42	22.85	3.36	4.54	7.27	67	99.3	cloudy
1416		1200		59.43	22.61	3.32	5.12	7.29	61	16.2	cloudy
1419		1800		59.42	22.44	3.32	6.38	7.36	76	10.9	clear
1422		2400		59.43	22.43	3.31	6.42	7.36	75	9.6	clear
1425		3000		59.41	22.41	3.30	6.41	7.30	76	9.3	clear
1428		3600		59.42	22.40	3.31	6.42	7.30	76	9.5	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
1410	1428	200	3600	N/A	NA	59.42	1432	WCC_06S_WG2008 0326_01

Notes: (units) [stabilization criteria]	Field Parameters			
	Ferrous Iron (mg/L)	PID (ppm):	Chemetrics D.O.(mg/L)	**DUP:** **DRUM NO:**

AVOCET ENVIRONMENTAL, INC.

GROUNDWATER SAMPLING DATA SHEET

Project Name:	Boeing C-6 GWM - Sitewide	**Date:**	3/26/08
Project No.:	1155.003	**Prepared by:**	BCB
Well Identification:	WCC_07S	**Weather:**	Clear / Warm
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.)
–	59.27	89.35		–	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: 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
1144	10/5 @ 65psi		250	59.27	23.63	2.05	3.57	7.22	47	2.83	colorless/odorless
1147	↓		↓	–	23.06	2.03	3.57	7.22	55	2.54	"
1150				–	23.06	2.03	3.51	7.22	58	0.81	"
1153				–	23.07	2.03	3.37	7.20	61	0.65	"
1156				–	23.11	2.02	3.32	7.21	63	0.61	"
1159				–	23.10	2.03	3.24	7.20	65	0.77	"
1202				–	23.07	2.03	3.20	7.20	66	0.72	"
1205				–	23.05	2.02	3.14	7.20	67	0.69	"
1207				–	23.03	2.03	3.11	7.21	67	0.62	"
1210	↓		↓	59.29	23.04	2.02	3.09	7.20	69	0.57	"

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
1144	1210	250	6.75	N/A	NA	59.29	1210	WCC_07S_WG20080326_01

Notes: (units) [stabilization criteria]

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

DUP: WCC_07S_WG20080326_02

DRUM NO: (6) 40 ml vocs (3) HCl preserved (3) unpreserved

AVOCET ENVIRONMENTAL, INC.

GROUNDWATER SAMPLING DATA SHEET

Project Name:	Boeing C-6 GWM - Sitewide	**Date:**	3/27/08
Project No.:	1155.003	**Prepared by:**	Zmc
Well Identification:	BL-03	**Weather:**	Sunny 60's
Measurement Point Description:	TOC	**Pump Intake:**	69
		Screen:	59 - 79

A	B	C	D = C - B	E = B - A	G = D x F	H = 20 x F	I = – B x F	
Depth to LNAPL (ft-bmp)	**Depth to Static Water Level** (ft-bmp)	**Well Total Depth** (ft-bmp)	**Water Column Height** (ft)	**LNAPL Thickness** (ft)	**One Casing Volume** (gallons)	**Screen Volume** (gallons)	**Above Screen Volume** (gal.)	**Total Purge Volume** (gal.)
NA	46.28	79	12.72	NA	N/A	N/A	N/A	N/A

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

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

Time	Flow Controller Settings	Volume Purged (Liters)	Flow Rate (mL/min)	Water Level (ft-bmp)	Temperature (°C) [+/- 10%]	Conductivity (mS/cm) [+/- 10%]	Dissolved Oxygen (mg/L) [+/- 10%]	pH [+/- 0.1 pH]	ORP (mV) [+/- 10%]	Turbidity (NTU) [+/- 10%]	Observations
0815	CPM-4	0	200	66.30	20.02	3.19	6.38	7.18	116	49.4	cloudy
0818		600		66.28	20.01	3.42	3.05	7.12	32	21.6	cloudy
0821		1200		66.29	20.87	3.57	2.46	7.08	41	11.7	cloudy
0824		1800		66.29	21.34	3.57	2.46	7.09	69	6.2	clear
0827		2400		66.30	21.33	3.57	2.49	7.09	76	5.2	Clear
0830		3000		66.29	21.34	3.57	2.80	7.09	71	5.1	Clear
0833		3600		66.29	21.34	3.57	2.50	7.09	72	4.9	Clear
	ZMC										

Purge Start Time	Purge End Time	Average Flow (mL/min)	Total Volume Purged (Liters)	Total Casing Volumes Purged	80% Recovery Water Level Depth (Dx0.20) + B	Water Level at Sampling Time (ft bmp)	Sample Collection Time	Sample Identification
0815	0833	200	3600	N/A	NA	66.29	0832	BL-03_WG2008 0327_01

Notes: (units) [stabilization criteria]

Field Parameters		
Ferrous Iron (mg/L)	PID (ppm):	Chemetrics D.O.(mg/L)
0.00	0.0	

DUP:
DRUM NO:

AVOCET ENVIRONMENTAL, INC.

GROUNDWATER SAMPLING DATA SHEET

Project Name:	Boeing C-6 GWM - Sitewide	**Date:**	3/27/08
Project No.:	1155.003	**Prepared by:**	BCB
Well Identification:	CMW001	**Weather:**	Clear / Windy
Measurement Point Description:	TOC-N	**Pump Intake:**	COS
		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.)
–	62.52	124.26	61.48	–	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: 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
1346	10/5 @ 70psi		200	62.52	23.46	0.576	1.12	7.39	-45	4.74	colorless
1349				–	22.74	0.750	1.33	7.41	-82	2.03	"
1352				–	22.62	0.779	0.89	7.50	-111	1.75	"
1355				–	22.59	0.781	0.55	7.50	-119	1.44	"
1358				–	22.56	0.780	0.29	7.51	-123	1.23	"
1401				–	22.51	0.779	0.25	7.51	-124	1.10	"
1404				–	22.46	0.776	0.21	7.51	-125	0.99	"
1407				62.55	22.43	0.777	0.17	7.52	-125	1.02	"

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
1346	1407	200	4.2	N/A	NA	62.55	1407	CMW001_WG2008 0327_01

Notes: (units) [stabilization criteria]

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

DUP:

DRUM NO:

AVOCET ENVIRONMENTAL, INC.

GROUNDWATER SAMPLING DATA SHEET

Project Name:	Boeing C-6 GWM - Sitewide	**Date:**	3/27/08
Project No.:	1155.003	**Prepared by:**	Gme
Well Identification:	DAC-P1	**Weather:**	Sunny 70s
Measurement Point Description:	TOC	**Pump Intake:**	80'
		Screen:	60 - 90

A	B	C	D = C - B	E = B - A	G = D x F	H = 30 x F	I = – B x F	
Depth to LNAPL (ft-bmp)	**Depth to Static Water Level** (ft-bmp)	**Well Total Depth** (ft-bmp)	**Water Column Height** (ft)	**LNAPL Thickness** (ft)	**One Casing Volume** (gallons)	**Screen Volume** (gallons)	**Above Screen Volume** (gal.)	**Total Purge Volume** (gal.)
NA	61.75	90	28.15	NA	N/A	N/A	N/A	N/A

	Gallons/Foot				
Well Diameter (inches) = 4	0.75	2	4	6	**Field Equipment:** QED
F - **Gallons per foot of casing**	0.02	0.16	0.65	1.47	**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
0850	CPM-4	0	200	61.75	19.93	2.50	5.97	7.29	121	104	cloudy
0853		600		61.84	21.12	1.98	2.37	7.22	31	60.3	cloudy
0856		1200		61.85	21.59	1.75	1.39	7.22	-6	32.6	cloudy
0859		1800		61.86	21.88	1.74	1.15	7.22	-19	14.0	cloudy
0902		2400		61.85	21.93	1.73	1.12	7.22	-20	9.7	cloudy
0905		3000		61.86	21.94	1.74	1.11	7.22	-21	9.3	cloudy
0908		3600		61.86	21.93	1.73	1.10	7.22	-20	9.9	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
0850	0908	200	3600	N/A	NA	61.86	0914	DAC-P1_WG20080327_01

Notes: (units) [stabilization criteria]	Field Parameters			**DUP:**
	Ferrous Iron (mg/L)	PID (ppm):	Chemetrics D.O.(mg/L)	**DRUM NO:**

AVOCET ENVIRONMENTAL, INC.

GROUNDWATER SAMPLING DATA SHEET

Project Name:	Boeing C-6 GWM - Sitewide	**Date:**	3/27/08
Project No.:	1155.003	**Prepared by:**	Emc
Well Identification:	IRZB0081	**Weather:**	Sunny/70's
Measurement Point Description:	TOC-N	**Pump Intake:**	/ **Screen:** 64.5 – 89.5

A	B	C	D = C - B	E = B - A	G = D x F	H = 30 x F	I = – B x F	
Depth to LNAPL (ft-bmp)	Depth to Static Water Level (ft-bmp)	Well Total Depth (ft-bmp)	Water Column Height (ft)	LNAPL Thickness (ft)	One Casing Volume (gallons)	Screen Volume (gallons)	Above Screen Volume (gal.)	Total Purge Volume (gal.)
NA	60.43	86.5'	26.07	N/A	~~NA~~ 0.52	N/A	N/A	1.5 ~~NA~~

	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 MP-20TD

Purge Method: WATERRA INERTIAL PUMP

Well Condition: OK

Time	Flow Controller Settings	Volume Purged ~~(Liters)~~ gal.	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	N/A	0.5 gal.	—	61.90	22.66	0.392	4.27	6.56	-109	927	clear
1310	↓	1.0	—	62.75	23.0	0.374	3.32	6.55	-111	896	Sulfur Odor
1315	↓	1.5	—	63.97	22.96	0.363	3.29	6.53	-109	927	Clear/Sulfur odor

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
13:00	13:15	—	1.5	N/A	NA	63.97	1322	IRZB0081_WG20080327_01

Notes: (units) [stabilization criteria]
Purge 3 volumes and SAMPLE.

Field Parameters		
Ferrous Iron (mg/L)	PID (ppm):	Chemetrics D.O.(mg/L)
1.82		—

DUP:
DRUM NO:

AVOCET ENVIRONMENTAL, INC.

GROUNDWATER SAMPLING DATA SHEET

Project Name:	Boeing C-6 GWM - Sitewide	Date:	8/17/08
Project No.:	1155.003	Prepared by:	GMC
Well Identification:	MWB003	Weather:	Sunny 66°
Measurement Point Description:	TOC	Pump Intake: 72.5	Screen: 65 - 90

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	63.81	90	26.19	NA	N/A	N/A	N/A	N/A

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

Field Equipment: QED
Purge Method: Micropurge
Well Condition: O/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
0745	CPM-4	0	200	63.90	21.04	4.21	6.32	6.82	111	15.7	clear
0748		600		63.92	20.33	2.38	4.91	7.01	46	10.5	clear
0751		1200		63.94	21.06	2.13	4.95	7.08	51	2.6	clear
0754		1800		63.92	21.10	2.13	4.96	7.08	62	8.7	clear
0757		2400		63.93	21.11	2.13	4.95	7.08	61	8.6	clear
0800		3000		63.93	21.12	2.14	4.95	7.09	60	8.8	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
0745	0800	200	3000	N/A	NA	63.93	0805	MWB003_WG20080827_01

Notes: (units) [stabilization criteria]

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

DUP:
DRUM NO:

AVOCET ENVIRONMENTAL, INC.

GROUNDWATER SAMPLING DATA SHEET

Project Name:	Boeing C-6 GWM - Sitewide	**Date:**	3/27/08
Project No.:	1155.003	**Prepared by:**	JMC
Well Identification:	MWB006	**Weather:**	Sunny 60's
Measurement Point Description:	TOC	**Pump Intake:** 77.5	**Screen:** 65 - 90

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	60.34	90	29.66	NA	N/A	N/A	N/A	N/A

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

Field Equipment: QED

Purge Method: Micropurge

Well Condition: O/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
0650	CMP-4	0	200	60.62	21.40	7.44	4.43	6.04	116	20.3	clear
0653	↓	600	↓	60.64	22.75	7.49	1.24	5.99	101	9.3	clear
0656		1200		60.65	23.35	7.49	0.89	6.02	-106	2.5	clear
0659		1800		60.64	23.40	7.50	0.77	6.18	-104	0.9	clear
0702		2400		60.64	23.71	7.50	0.74	6.26	-105	0.7	clear
0705		3000		60.64	23.70	7.50	0.73	6.26	-106	0.8	clear
0708	↓	3600	↓	60.65	23.71	7.50	0.72	6.26	-105	0.9	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
0650	0708	200	3600	N/A	NA	60.65	0714	MWB006_WG20080327_01

Notes: (units) [stabilization criteria]

Field Parameters		
Ferrous Iron (mg/L)	PID (ppm):	Chemetrics D.O.(mg/L)
2.96	0.1	

DUP:

DRUM NO:

AVOCET ENVIRONMENTAL, INC.

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GROUNDWATER SAMPLING DATA SHEET

Project Name:	Boeing C-6 GWM - Sitewide	**Date:**	3/27/08
Project No.:	1155.003	**Prepared by:**	GMC
Well Identification:	MWB012	**Weather:**	Sunny 70's
Measurement Point Description:	TOC	**Pump Intake:**	74.5
		Screen:	64.5 - 84.5

A	B	C	D = C - B	E = B - A	G = D x F	H = 20 x F	I = – B x F	
Depth to LNAPL (ft-bmp)	**Depth to Static Water Level** (ft-bmp)	**Well Total Depth** (ft-bmp)	**Water Column Height** (ft)	**LNAPL Thickness** (ft)	**One Casing Volume** (gallons)	**Screen Volume** (gallons)	**Above Screen Volume** (gal.)	**Total Purge Volume** (gal.)
NA	59.77	84.5	24.73	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
1048	CPM 4	0	200	59.81	24.31	1.143	8.14	7.49	195	13.2	cloudy
1051		600		59.81	22.78	1.129	6.98	7.43	121	16.2	cloudy
1054		1200		59.84	22.61	1.126	6.92	7.41	136	11.5	clear
1057		1800		59.85	22.50	1.126	6.83	7.41	125	11.2	clear
1100		2400		59.84	22.48	1.124	6.75	7.40	91	9.6	clear
1103		3000		59.84	22.37	1.124	6.76	7.40	83	7.2	clear
1106		3600		59.84	22.35	1.124	6.76	7.40	73	5.4	clear
1109		4200		59.83	22.34	1.123	6.78	7.39	81	3.2	clear
1112		4800		59.81	22.35	1.123	6.76	7.38	80	3.6	clear
1115		5400		59.83	22.35	1.124	6.77	7.39	80	3.5	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
1048	1115	200	5400	N/A	NA	59.84	1121	MWB012_WG20080327_01

Notes: (units) [stabilization criteria]

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

DUP:

DRUM NO:

AVOCET ENVIRONMENTAL, INC.

GROUNDWATER SAMPLING DATA SHEET

Project Name:	Boeing C-6 GWM - Sitewide	**Date:**	3/27/08
Project No.:	1155.003	**Prepared by:**	BLB
Well Identification:	MWB013	**Weather:**	Clear / Cool
Measurement Point Description:	TOC-N	**Pump Intake:**	COS
		Screen:	65 - 85

A	B	C	D = C - B	E = B - A	G = D x F	H = 20 x F	I = – B x F	
Depth to LNAPL (ft-bmp)	Depth to Static Water Level (ft-bmp)	Well Total Depth (ft-bmp)	Water Column Height (ft)	LNAPL Thickness (ft)	One Casing Volume (gallons)	Screen Volume (gallons)	Above Screen Volume (gal.)	Total Purge Volume (gal.)
—	62.21	85.10	22.89	—	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: Well cover missing 2 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
0725	10/5 s @ 60 psi		200	62.21	21.65	1.62	2.89	7.37	95	3.27	colorless
0728	↓		↓	—	21.69	1.67	2.95	7.40	97	2.48	"
0731				—	21.79	1.68	2.96	7.46	97	2.19	"
0734				—	21.83	1.69	3.00	7.50	95	1.70	"
0737				—	21.85	1.68	2.97	7.49	94	1.57	"
0740				—	21.85	1.68	2.95	7.51	94	1.26	"
0743				—	21.87	1.68	2.92	7.50	92	1.11	"
0747				—	21.91	1.68	2.87	7.50	90	0.96	"
0750				—	21.90	1.68	2.81	7.50	88	0.77	"
0753	↓		↓	62.27	21.89	1.69	2.79	7.50	89	0.71	"

Purge Start Time	Purge End Time	Average Flow (mL/min)	Total Volume Purged (Liters)	Total Casing Volumes Purged	80% Recovery Water Level Depth (Dx0.20) + B	Water Level at Sampling Time (ft bmp)	Sample Collection Time	Sample Identification
0725	0753	200	5.4	N/A	NA	62.27	0753	MWB013_WG20080327_01

Notes: (units) [stabilization criteria]

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

DUP:

DRUM NO:

AVOCET ENVIRONMENTAL, INC.

Page _____ of _____

GROUNDWATER SAMPLING DATA SHEET

Project Name:	Boeing C-6 GWM - Sitewide	**Date:**	3/27/08
Project No.:	1155.003	**Prepared by:**	MMC
Well Identification:	MWB014	**Weather:**	Sunny 76's
Measurement Point Description:	TOC	**Pump Intake:**	75
		Screen:	65 - 85

A	B	C	D = C - B	E = B - A	G = D x F	H = 20 x F	I = – B x F	
Depth to LNAPL (ft-bmp)	**Depth to Static Water Level** (ft-bmp)	**Well Total Depth** (ft-bmp)	**Water Column Height** (ft)	**LNAPL Thickness** (ft)	**One Casing Volume** (gallons)	**Screen Volume** (gallons)	**Above Screen Volume** (gal.)	**Total Purge Volume** (gal.)
NA	59.24	85	25.66	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
1007	CPM-4	0	200	59.33	22.46	1.253	6.28	7.46	106	78.3	cloudy
1010		600		59.34	21.57	1.235	3.52	7.46	112	20.6	cloudy
1013		1200		59.35	21.41	1.237	3.41	7.41	79	9.7	clear
1016		1800		59.34	21.62	1.239	3.44	7.41	70	3.7	clear
1019		2400		59.35	21.63	1.238	3.45	7.41	69	3.9	clear
1022		3000		59.35	21.62	1.239	3.44	7.41	71	3.6	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
1007	1022	200	3000	N/A	NA	59.35	1027	MWB014_WG2008 0327_01

Notes: (units) [stabilization criteria]

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

DUP:

DRUM NO:

AVOCET ENVIRONMENTAL, INC.

GROUNDWATER SAMPLING DATA SHEET

Project Name:	Boeing C-6 GWM - Sitewide	Date:	3/27/08
Project No.:	1155.003	Prepared by:	BCB
Well Identification:	MWB019	Weather:	Clear / Windy
Measurement Point Description:	TOC-N	Pump Intake:	COS
		Screen:	65 - 85

A	B	C	D = C - B	E = B - A	G = D x F	H = 20 x F	I = – B x F	
Depth to LNAPL (ft-bmp)	Depth to Static Water Level (ft-bmp)	Well Total Depth (ft-bmp)	Water Column Height (ft)	LNAPL Thickness (ft)	One Casing Volume (gallons)	Screen Volume (gallons)	Above Screen Volume (gal.)	Total Purge Volume (gal.)
–	63.07	85.01	21.94	–	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: 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
1430	10/5s @ 80psi		200	63.07	22.64	2.75	2.50	6.85	38	1.96	odorless
1433	↓		↓	–	22.60	2.78	2.60	6.84	79	1.44	"
1436				–	22.62	2.79	2.67	6.87	117	0.93	"
1439				–	22.59	2.79	2.71	6.87	142	0.55	"
1442				–	22.58	2.78	2.74	6.87	174	0.49	"
1445				–	22.57	2.79	2.75	6.87	182	0.37	"
1448				–	22.59	2.79	2.75	6.88	187	0.25	"
1451	↓		↓	63.10	22.59	2.78	2.74	6.88	191	0.23	"

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
1430	1451	200	4.2	N/A	NA	63.10	1451	MWB019_WG2008 0327 01

Notes: (units) [stabilization criteria]

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

DUP:
DRUM NO:

AVOCET ENVIRONMENTAL, INC.

GROUNDWATER SAMPLING DATA SHEET

Project Name:	Boeing C-6 GWM - Sitewide	**Date:**	3/27/08
Project No.:	1155.003	**Prepared by:**	BCB
Well Identification:	MWC009	**Weather:**	Clear / Warm
Measurement Point Description:	Toc-N	**Pump Intake:**	COS
		Screen:	101 - 121

A	B	C	D = C - B	E = B - A	G = D x F	H = 20 x F	I = – B x F	
Depth to LNAPL (ft-bmp)	**Depth to Static Water Level** (ft-bmp)	**Well Total Depth** (ft-bmp)	**Water Column Height** (ft)	**LNAPL Thickness** (ft)	**One Casing Volume** (gallons)	**Screen Volume** (gallons)	**Above Screen Volume** (gal.)	**Total Purge Volume** (gal.)
—	61.34	~~124~~ 119.5	~~62.66~~ 58.16	—	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: 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
0950	10/5s @ 75psi		200	61.34	22.89	1.111	2.46	7.49	57	3.61	colorless
0953	↓		↓	–	22.24	0.867	1.87	7.53	52	2.58	"
0956				–	22.21	0.861	1.04	7.50	37	2.21	"
0959				–	22.15	0.860	0.76	7.50	23	1.07	"
1002				–	22.12	0.862	0.67	7.51	20	0.99	"
1005				–	22.11	0.861	0.55	7.50	17	1.02	"
1008				–	22.15	0.854	0.44	7.49	12	0.85	"
1011				–	22.14	0.849	0.39	7.50	9	0.93	"
1013				–	22.16	0.846	0.34	7.51	11	1.11	"
1016	—		—	61.	22.15	0.844	0.30	7.49	10	0.98	"

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
0950	1016	200	5.4 ~~6.75~~	N/A	NA	61.37	1016	MWC009_WG2008 0327_01

Notes: (units) [stabilization criteria]

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

DUP:
DRUM NO:

AVOCET ENVIRONMENTAL, INC.

GROUNDWATER SAMPLING DATA SHEET

Project Name:	Boeing C-6 GWM - Sitewide	**Date:**	3/27/08
Project No.:	1155.003	**Prepared by:**	GMC
Well Identification:	MWC015	**Weather:**	Sunny 70s
Measurement Point Description:	TOC	**Pump Intake:**	112.5
		Screen:	100 - 125

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	59.89	125	65.1	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
1220	CPM-4	0	200	59.92	24.25	0.787	5.10	7.26	87	29.4	cloudy
1223	↓	600	↓	59.94	22.51	0.704	2.25	7.22	27	12.6	clear
1226		1200		59.93	21.85	0.798	1.70	7.27	17	9.3	clear
1229		1800		59.93	21.56	0.820	1.55	7.31	13	8.1	clear
1232		2400		59.92	21.30	0.829	1.63	7.33	21	7.4	clear
1235		3000		59.93	21.29	0.830	1.64	7.33	22	5.4	clear
1238		3600		59.92	21.31	0.829	1.63	7.32	21	6.4	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
1220	1238	200	3600	N/A	NA	59.92	1244	MWC015_WG2008 0327_01

Notes: (units) [stabilization criteria]

Field Parameters		
Ferrous Iron (mg/L)	PID (ppm):	Chemetrics D.O.(mg/L)
0.06	0.0	—

DUP:

DRUM NO:

AVOCET ENVIRONMENTAL, INC.

GROUNDWATER SAMPLING DATA SHEET

Project Name:	Boeing C-6 GWM - Sitewide	**Date:**	8/27/08
Project No.:	1155.003	**Prepared by:**	AMC
Well Identification:	MWC016	**Weather:**	Sunny 70's
Measurement Point Description:	TOC	**Pump Intake:**	114.5
		Screen:	102.5 - 127.5

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	60.47	128	67.53	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 / missing bolt

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
1140	CPM-4	0	200	60.66	23.28	0.541	3.14	7.51	102	8.2	clear
1143		600		60.57	23.76	0.574	2.99	7.41	92	6.5	clear
1146		1200		60.54	24.11	1.018	4.16	7.46	83	3.7	clear
1149		1800		60.53	24.00	1.065	4.36	7.30	79	2.9	clear
1152		2400		60.53	23.94	1.121	4.52	7.47	81	2.6	clear
1155		3000		60.53	23.91	1.121	4.56	7.48	62	2.7	clear
1158		3600		60.53	23.92	1.122	4.55	7.47	63	2.9	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
1140	1158	200	3600	N/A	NA	60.53	1204	MWC016_WG2008 0327_01

Notes: (units) [stabilization criteria]

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

DUP:

DRUM NO:

AVOCET ENVIRONMENTAL, INC.

GROUNDWATER SAMPLING DATA SHEET

Project Name:	Boeing C-6 GWM - Sitewide	**Date:**	3/27/08
Project No.:	1155.003	**Prepared by:**	BCB
Well Identification:	MWC021	**Weather:**	Clear / Warm
Measurement Point Description:	TOC-N	**Pump Intake:**	COS
		Screen:	97 - 122

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.)
—	61.93 93	121.75	59.82	—	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: broken well box cover, 1 bolt bent & stuck in 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
1215	W/5s @ 75psi		200	61.93	32.24	2.91	2.93	7.00	42	348	colorless
1218				—	24.80	0.992	2.13	7.19	-115	2.35	"
1221				—	23.71	0.892	1.84	7.37	-102	1.29	"
1224				—	23.23	0.874	1.05	7.52	-77	1.01	"
1227				—	23.13	0.874	0.69	7.49	-67	1.13	"
1230				—	23.08	0.874	0.57	7.49	-65	1.17	"
1233				—	23.01	0.874	0.33	7.51	-59	1.05	"
1236				—	22.97	0.873	0.26	7.49	-57	0.99	"
1239				—	22.93	0.874	0.22	7.50	-56	1.15	"
1242				61.97	22.92	0.874	0.21	7.49	-57	0.92	"

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
1215	1242	200	5.4	N/A	NA	61.97	1242	MWC021_WG20080327_01

Notes: (units) [stabilization criteria]

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

DUP: " " _02

DRUM NO: (3) 40 ml VOAs HCl preserved
(3) " unpreserved

AVOCET ENVIRONMENTAL, INC.

GROUNDWATER SAMPLING DATA SHEET

Project Name:	Boeing C-6 GWM - Sitewide	**Date:**	3/27/08
Project No.:	1155.003	**Prepared by:**	GMC
Well Identification:	TMW_06	**Weather:**	Sunny 70's
Measurement Point Description:	TOC	**Pump Intake:**	77
		Screen:	67 - 87

A	B	C	D = C - B	E = B - A	G = D x F	H = 20 x F	I = – B x F	
Depth to LNAPL (ft-bmp)	**Depth to Static Water Level** (ft-bmp)	**Well Total Depth** (ft-bmp)	**Water Column Height** (ft)	**LNAPL Thickness** (ft)	**One Casing Volume** (gallons)	**Screen Volume** (gallons)	**Above Screen Volume** (gal.)	**Total Purge Volume** (gal.)
NA	59.16	87.00	27.84	NA	N/A	N/A	N/A	N/A

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

Field Equipment: QED

Purge Method: Micropurge

Well Condition: OK missing well cap

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
0930	CPM-4'	0	200	59.34	21.14	1.64	9.07	7.41	100	3.72	cloudy
0933		600		59.28	20.46	1.53	4.11	7.30	76	119	cloudy
0936		1200		59.27	20.83	1.53	4.39	7.29	127	3046	
0939		1800		59.28	20.96	1.54	4.46	7.27	156	5000+	
0942		2400		59.28	21.00	1.53	4.36	7.28	182	5000+	
0945		3000		59.28	21.02	1.54	4.35	7.28	181	5000+	
0948		3600		59.27	21.01	1.53	4.36	7.28	180	6000	
0954		4200		59.27	21.01	1.53	4.36	7.28	181	6000	
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
0930	0948	200	4200	N/A	NA	59.27	0954	TMW_06_WG20080327_01

Notes: (units) [stabilization criteria]
Turbidity won't clear up, water is yellow
& missing well cap

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

DUP:
DRUM NO:

AVOCET ENVIRONMENTAL, INC.

GROUNDWATER SAMPLING DATA SHEET

Project Name:	Boeing C-6 GWM - Sitewide	**Date:**	3/27/08
Project No.:	1155.003	**Prepared by:**	BCB
Well Identification:	TMW_14	**Weather:**	Clear / Warm
Measurement Point Description:	TOC-N	**Pump Intake:**	105
		Screen:	65 - 85

A	B	C	D = C - B	E = B - A	G = D x F	H = 20 x F	I = – B x F	
Depth to LNAPL (ft-bmp)	**Depth to Static Water Level** (ft-bmp)	**Well Total Depth** (ft-bmp)	**Water Column Height** (ft)	**LNAPL Thickness** (ft)	**One Casing Volume** (gallons)	**Screen Volume** (gallons)	**Above Screen Volume** (gal.)	**Total Purge Volume** (gal.)
–	66.82	85.1	18.28	–	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:

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 @ 75psi		250	66.82	24.24	2.82	2.00	6.90	63	5.24	Colorless
1114	↓		↓	–	22.41	2.90	2.29	6.89	72	19.5	"
1117				–	22.30	2.99	2.48	6.92	79	15.0	"
1120				–	22.25	2.99	2.74	6.93	87	11.8	"
1123				–	22.24	2.85	2.81	6.93	93	9.49	"
1126				–	22.23	2.97	2.84	6.93	96	7.44	"
1129				–	22.24	3.00	2.87	6.94	97	5.77	"
1132				–	22.24	2.99	2.88	6.93	97	4.41	"
1135				–	22.23	2.98	2.89	6.94	98	4.59	"
1138				66.85	22.24	2.99	2.90	6.94	99	4.81	"

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
1111	1138	250	6.75	N/A	NA	86.85	1138	TMW_14_WG20080327_01

Notes: (units) [stabilization criteria]

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

DUP:

DRUM NO:

AVOCET ENVIRONMENTAL, INC.

GROUNDWATER SAMPLING DATA SHEET

Project Name:	Boeing C-6 GWM - Sitewide	**Date:**	3/27/08
Project No.:	1155.003	**Prepared by:**	BCB
Well Identification:	WCC_09S	**Weather:**	Clear / Warm
Measurement Point Description:	TOC - N	**Pump Intake:**	20S
		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.)
–	61.92	94.40	32.48	–	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: 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 @ 70psi		250	61.92	22.25	2.04	3.06	7.15	77	2.75	colorless
0913	↓		↓	–	21.90	2.07	2.92	7.13	80	2.34	"
0916				–	21.87	2.07	2.83	7.12	84	2.48	"
0919				–	21.89	2.06	2.76	7.13	87	2.41	"
0922				–	21.94	2.06	2.71	7.14	89	2.02	"
0925				–	21.90	2.06	2.69	7.12	90	1.91	"
0928				–	21.82	2.05	2.67	7.13	91	1.87	"
0931				–	21.91	2.06	2.68	7.12	91	1.95	"
0934				–	21.90	2.06	2.69	7.12	92	2.04	"
0937				61.97	21.92	2.05	2.67	7.13	91	1.88	"

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	0937	250	6.75	N/A	NA	61.97	0937	WCC_09S_WG20080327_01

Notes: (units) [stabilization criteria]

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

DUP:
DRUM NO:

AVOCET ENVIRONMENTAL, INC.

GROUNDWATER SAMPLING DATA SHEET

Project Name:	Boeing C-6 GWM - Sitewide	**Date:** 3/28/08	
Project No.:	1155.003	**Prepared by:** BCB	
Well Identification:	EWB001	**Weather:** Overcast / Cool	
Measurement Point Description:		**Pump Intake:** —	**Screen:** 59.2 - 89.2

A	*B*	*C*	*D* = *C* - *B*	*E* = *B* - *A*	*G* = *D* x *F*	*H* = 30 x *F*	*I* = – *B* x *F*	
Depth to LNAPL (ft-bmp)	**Depth to Static Water Level** (ft-bmp)	**Well Total Depth** (ft-bmp)	**Water Column Height** (ft)	**LNAPL Thickness** (ft)	**One Casing Volume** (gallons)	**Screen Volume** (gallons)	**Above Screen Volume** (gal.)	**Total Purge Volume** (gal.)
—	NA	85.5	NA	—	N/A	N/A	N/A	N/A

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

Field Equipment: QED

Purge Method: Permanent Pump and Piping

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
0810					20.50	1.83	2.49	7.19	97	28.9	

* Jacob / Hefner has been purging this well @ 5.22 gpm for the last 13 hrs therefore the parameters and H_2O samples were collected from sample port on top of well head.

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
—	—	.	—	N/A	NA	—	0810	EWB001_WG2008 0328_01

Notes: (units) [stabilization criteria]

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

DUP:

DRUM NO:

AVOCET ENVIRONMENTAL, INC.

GROUNDWATER SAMPLING DATA SHEET

Project Name:	Boeing C-6 GWM - Sitewide	Date:	3/28/08
Project No.:	1155.003	Prepared by:	DCB
Well Identification:	MWC017	Weather:	Clear / Warm
Measurement Point Description:	TOC-N	Pump Intake:	105
		Screen:	100 - 125

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.)
–	63.34	128.0	64.66	–	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: Well box ears are stripped out

Time	Flow Controller Settings	Volume Purged (Liters)	Flow Rate (mL/min)	Water Level (ft-bmp)	Temperature (°C) [+/- 10%]	Conductivity (mS/cm) [+/- 10%]	Dissolved Oxygen (mg/L) [+/- 10%]	pH [+/- 0.1 pH]	ORP (mV) [+/- 10%]	Turbidity (NTU) [+/- 10%]	Observations
1309	10/5s @ 80psi		250	63.34	26.78	1.54	2.88	7.17	-192	1.93	colorless
1312				–	22.93	0.841	1.72	7.24	-207	1.87	"
1315				–	22.59	0.836	0.63	7.40	-219	1.83	"
1318				–	22.50	0.836	0.18	7.45	-226	0.67	"
1321				–	22.52	0.835	0.15	7.45	-226	0.59	"
1324				–	22.52	0.837	0.14	7.46	-225	0.71	"
1327				–	22.49	0.834	0.13	7.45	-226	0.65	"
1830				63.37	22.47	0.835	0.13	7.45	-225	0.67	"

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
1309	1330	250	5.25	N/A	NA	63.37	1330	MWC017_WG2008 0328 01

Notes: (units) [stabilization criteria]

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

DUP: MWC017_WG20080328_02

DRUM NO:

AVOCET ENVIRONMENTAL, INC.

GROUNDWATER SAMPLING DATA SHEET

Project Name:	Boeing C-6 GWM - Sitewide	Date:	3/28/08
Project No.:	1155.003	Prepared by:	DCB
Well Identification:	MWC023	Weather:	Clear / Warm
Measurement Point Description:	TOC-N	Pump Intake:	COS
		Screen:	97 - 117

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.)
—	58.01	115.10	57.09	—	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: 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	10/5 @ 75psi		250	58.01	24.67	0.636	1.40	7.20	-167	1.82	colorless
1408	↓		↓	—	23.24	1.059	1.52	7.20	-169	1.74	"
1411				—	22.99	1.101	0.99	7.22	-173	1.67	"
1414				—	22.89	1.107	0.64	7.21	-179	1.11	"
1417				—	22.88	1.111	0.57	7.23	-179	0.61	"
1420				—	22.84	1.102	0.43	7.21	-179	0.74	"
1423				—	22.85	1.109	0.37	7.21	-181	0.85	"
1426				58.	22.87	1.110	0.30	7.22	-180	0.79	"

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	1426	250	5.25	N/A	NA	58.	1426	MWC023_WG20080328_01

Notes: (units) [stabilization criteria]

Field Parameters		
Ferrous Iron (mg/L)	PID (ppm):	Chemetrics D.O.(mg/L)
		0.5

DUP:

DRUM NO:

AVOCET ENVIRONMENTAL, INC.

GROUNDWATER SAMPLING DATA SHEET

Project Name:	Boeing C-6 GWM - Sitewide	Date:	3/28/08
Project No.:	1155.003	Prepared by:	BCB
Well Identification:	TMW_10	Weather:	Clear / Warm
Measurement Point Description:	TOC-N	Pump Intake:	60.5 — Screen: 60.5 - 80.5

A	B	C	D = C - B	E = B - A	G = D x F	H = 20 x F	I = – B x F	
Depth to LNAPL (ft-bmp)	Depth to Static Water Level (ft-bmp)	Well Total Depth (ft-bmp)	Water Column Height (ft)	LNAPL Thickness (ft)	One Casing Volume (gallons)	Screen Volume (gallons)	Above Screen Volume (gal.)	Total Purge Volume (gal.)
—	57.12	77.80	19.68	—	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: both bolt holes in Well box are stripped out

Time	Flow Controller Settings	Volume Purged (Liters)	Flow Rate (mL/min)	Water Level (ft-bmp)	Temperature (°C) [+/- 10%]	Conductivity (mS/cm) [+/- 10%]	Dissolved Oxygen (mg/L) [+/- 10%]	pH [+/- 0.1 pH]	ORP (mV) [+/- 10%]	Turbidity (NTU) [+/- 10%]	Observations
1108	10/5 @ 70psi		200	57.12	23.21	1.93	2.51	7.13	132	9.14	colorless
1111				–	22.40	1.93	2.34	7.13	127	10.9	"
1114				–	22.75	2.12	2.31	7.09	126	15.6	"
1117				–	22.60	2.14	2.10	7.09	126	5.07	"
1120				–	22.61	2.14	1.32	7.10	127	1.80	"
1123				–	22.63	2.14	1.31	7.10	129	1.32	"
1126				–	22.59	2.14	1.27	7.10	128	1.17	"
1129			200	57.15	22.59	2.14	1.25	7.10	127	1.04	"

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
1108	1129	200	4.2	N/A	NA	57.15	1129	TMW_10_WG2008 0328 01

Notes: (units) [stabilization criteria]

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

DUP:

DRUM NO:

AVOCET ENVIRONMENTAL, INC.

GROUNDWATER SAMPLING DATA SHEET

Project Name:	Boeing C-6 GWM - Sitewide	Date:	3/28/08
Project No.:	1155.003	Prepared by:	BCB
Well Identification:	TMW_11	Weather:	Clear / Warm
Measurement Point Description:	TOC-N	Pump Intake:	COS
		Screen:	58 - 78

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.)
—	57.40	76.35	18.95	—	N/A	N/A	N/A	N/A

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

Field Equipment: QED

Purge Method: Micropurge

Well Condition: both bolt holes in well box are stripped out

Time	Flow Controller Settings	Volume Purged (Liters)	Flow Rate (mL/min)	Water Level (ft-bmp)	Temperature (°C) [+/- 10%]	Conductivity (mS/cm) [+/- 10%]	Dissolved Oxygen (mg/L) [+/- 10%]	pH [+/- 0.1 pH]	ORP (mV) [+/- 10%]	Turbidity (NTU) [+/- 10%]	Observations
1149	10/5, 2.70 psi		200	57.40	22.70	1.363	2.59	7.15	125	3.16	colorless
1152	↓		↓	—	22.64	1.449	2.47	7.14	131	1.80	"
1155				—	22.62	1.497	2.38	7.13	132	1.00	"
1158				—	22.61	1.51	2.37	7.14	134	0.92	"
1201				—	22.65	1.51	2.35	7.14	135	0.75	"
1204				—	22.65	1.51	2.33	7.14	136	0.69	"
1207				—	22.67	1.52	2.32	7.13	136	0.34	"
1210				57.42	22.65	1.52	2.34	7.14	137	0.23	"

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
1149	1210	200	4.2	N/A	NA	57.42	12.10	TMW_11_WG2008 0328_01

Notes: (units) [stabilization criteria]

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

DUP:

DRUM NO:

AVOCET ENVIRONMENTAL, INC.

GROUNDWATER SAMPLING DATA SHEET

Project Name:	Boeing C-6 GWM - Sitewide	**Date:**	3/28/08
Project No.:	1155.003	**Prepared by:**	BCB
Well Identification:	TMW_15	**Weather:**	Clear/Warm
Measurement Point Description:	TOC-N	**Pump Intake:**	60s
		Screen:	62 - 87

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.)
–	64.89	86.40	21.51	–	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: latch on monument cover is broken

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
1015	10/5s @ 70psi		250	64.89	21.48	1.54	3.10	7.29	207	50.0	Colorless
1018	↓		↓	–	21.91	1.55	2.69	7.21	199	16.3	"
1021				–	21.89	1.55	2.50	7.22	196	9.88	"
1024				–	21.92	1.54	2.37	7.21	190	7.57	"
1027				–	21.89	1.55	2.19	7.20	184	5.95	"
1030				–	21.91	1.55	2.01	7.21	178	2.62	"
1033				–	21.91	1.54	1.91	7.20	174	2.08	"
1036	↓		↓	65.14	21.91	1.54	1.87	7.20	171	1.95	"

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
1015	1036	250	5.25	N/A	NA	~~64~~. 65.14	1036	TMW_15_WG20080328_01

Notes: (units) [stabilization criteria]

Field Parameters		
Ferrous Iron (mg/L)	PID (ppm):	Chemetrics D.O.(mg/L)
		1.5

DUP:

DRUM NO:

AVOCET ENVIRONMENTAL, INC.

GROUNDWATER SAMPLING DATA SHEET

Project Name:	Boeing C-6 GWM - Sitewide	**Date:** 3/28/08	
Project No.:	1155.003	**Prepared by:** BLB	
Well Identification:	WCC_05S	**Weather:** Clear / Cool	
Measurement Point Description:	TOC-N	**Pump Intake:** COS	**Screen:** 61 - 91

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.)
—	59.45	91.30	31.85	—	N/A	N/A	N/A	N/A

	Gallons/Foot				
Well Diameter (inches) = 4	0.75	2	(4)	6	**Field Equipment:** QED
F - **Gallons per foot of casing**	0.02	0.16	0.65	1.47	**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
0911	10/5 @ 75psi		250	59.45	22.31	1.182	1.61	7.23	16	13.2	colorless
0914	↓		↓	—	22.31	1.185	0.69	7.22	15	7.67	"
0917				—	22.29	1.184	0.57	7.20	14	3.46	"
0920				—	22.32	1.184	0.43	7.21	13	2.17	"
0923				—	22.34	1.187	0.29	7.22	12	1.01	"
0926				—	22.33	1.189	0.17	7.21	10	1.45	"
0929				59.49	22.34	1.190	0.15	7.22	11	2.22	"

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
0911	0929	250	4.5	N/A	NA	59.49	0929	WCC_05S_WG2008 _01

Notes: (units) [stabilization criteria]	Field Parameters			
	Ferrous Iron (mg/L)	PID (ppm):	Chemetrics D.O.(mg/L)	**DUP:** **DRUM NO:**

AVOCET ENVIRONMENTAL, INC.

Page _____ of _____

GROUNDWATER SAMPLING DATA SHEET

Project Name:	Boeing C-6 GWM - Sitewide	**Date:**	3/29/07
Project No.:	1155.003	**Prepared by:**	Emc
Well Identification:	EWC002	**Weather:**	cloudy 60's
Measurement Point Description:	TOC	**Pump Intake:**	108.5 ft
		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.)
N/A	59.60	121	61.4	N/A	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: 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
1200	CPM 4	0	200	59.60	21.78	.727	4.52	7.14	111	62.9	cloudy
1203		600		59.62	21.56	1.257	3.80	7.00	111	8.6	clear
1206		1200		59.62	21.60	1.57	4.24	7.10	86	7.6	clear
1209		1800		59.61	21.51	1.65	4.25	7.14	89	4.6	clear
1212		2400		59.62	21.59	1.66	4.84	7.15	86	3.7	clear
1215		3000		59.61	21.60	1.65	4.83	7.14	90	3.6	clear
1218		3600		59.60	21.59	1.62	4.84	7.15	87	3.2	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
1200	1210	200	3600	N/A	NA	59.62	1215	EWC002_WG20080329_01

Notes: (units) [stabilization criteria]

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

DUP:

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AVOCET ENVIRONMENTAL, INC.

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GROUNDWATER SAMPLING DATA SHEET

Project Name:	Boeing C-6 GWM - Sitewide	**Date:**	3/29/08
Project No.:	1155.003	**Prepared by:**	EMC
Well Identification:	IRZB0095	**Weather:**	Cloudy 66's
Measurement Point Description:		**Pump Intake:**	77.50
		Screen:	65 - 90

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	60.42	90	29.58	NA	N/A	N/A	N/A	N/A

	Gallons/Foot			
Well Diameter (inches) = 0.75	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:

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
1040	CPM-4	0	200	60.97	21.06	1432	6.75	7.32	-123	15.6	clear
1043		600		61.42	22.01	0.965	5.01	6.32	-105	12.1	
1046		1200		61.83	22.03	0.397	3.26	6.52	-101	8.4	
1049		1800		61.91	22.04	0.292	2.50	6.50	-100	5.3	
1052		2400		61.82	22.05	0.301	2.49	6.41	-97	5.2	
1055		3000		61.82	22.64	0.293	2.50	6.45	-99	5.1	

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
1040	1055	200	3000	N/A	NA	61.82	1100	IRZB0095_WG2008 0329_01

Notes: (units) [stabilization criteria]

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

DUP:

DRUM NO:

AVOCET ENVIRONMENTAL, INC.

GROUNDWATER SAMPLING DATA SHEET

Project Name:	Boeing C-6 GWM - Sitewide	**Date:**	3/29/08
Project No.:	1155.003	**Prepared by:**	MC
Well Identification:	IRZMW001A	**Weather:**	Sunny 60's
Measurement Point Description:	TOC	**Pump Intake:**	**Screen:** 65 - 75

A	B	C	D = C - B	E = B - A	G = D x F	H = 10 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	64.15	75		NA	N/A	N/A	N/A	N/A

	Gallons/Foot				
Well Diameter (inches) = 1.5	0.75	2	4	6	**Field Equipment:** QED
F - **Gallons per foot of casing**	0.02	0.16	0.65	1.47	**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
0845	CPM-4	0	200	64.15	19.71	1.76	5.77	6.88	151	45.1	clear
0848		600		64.15	19.83	1.78	4.61	6.86	152	37.8	clear
0851		1200		64.15	20.5	1.97	1.63	6.92	151	564	cloudy
0854		1800		64.18	20.81	2.01	1.02	6.96	150	457	cloudy
0857		2400		64.18	20.96	2.00	0.95	6.98	150	309	cloudy
0900		3000		64.18	20.99	1.99	0.96	6.98	149	266	cloudy
0903		3600		64.18	20.99	1.99	0.92	6.98	150	239	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
0845	0903	200	3600	N/A	NA	64.18	0908	IRZMW001A_WG20080329_01

Notes: (units) [stabilization criteria]
Turb. won't stabilize/redevelop well.

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

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AVOCET ENVIRONMENTAL, INC.

GROUNDWATER SAMPLING DATA SHEET

Project Name:	Boeing C-6 GWM - Sitewide	**Date:**	3/29/08
Project No.:	1155.003	**Prepared by:**	GMC
Well Identification:	IRZMW001B	**Weather:**	Sunny 60's
Measurement Point Description:	TOC	**Pump Intake:**	85
		Screen:	80 - 90

A	B	C	D = C - B	E = B - A	G = D x F	H = 10 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	64.05	94.00	29.95	NA	N/A	N/A	N/A	N/A

	Gallons/Foot			
Well Diameter (inches) = 1.5	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
0805	CPM-4	0	200	64.05	19.37	1.63	4.31	6.81	144	30.6	cloudy
0808		600		64.02	20.99	1.63	1.98	6.85	148	19.6	cloudy
0811		1200		64.05	21.29	1.72	2.38	6.78	89	11.2	clear
0814		1800		64.03	21.25	1.74	2.57	6.79	62	9.6	clear
0817		2400		64.02	21.37	1.74	2.61	6.80	59	8.2	clear
0820		3000		64.02	21.39	1.74	2.60	6.80	60	8.1	clear
0823		3600		64.02	21.39	1.74	2.61	6.90	51	8.1	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
0805	0823	200	3600	N/A	NA	64.02	0830	IRZMW001B_WG20080329_01

Notes: (units) [stabilization criteria]

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

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AVOCET ENVIRONMENTAL, INC.

GROUNDWATER SAMPLING DATA SHEET

Project Name:	Boeing C-6 GWM - Sitewide	**Date:**	
Project No.:	1155.003	**Prepared by:**	
Well Identification:	IRZMW004	**Weather:**	
Measurement Point Description:		**Pump Intake:** 75	**Screen:** 65 - 90

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	60.64	90	29.36	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 / missing bolt

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
1110	CPM-4	0	200	60.64	22.13	1.87	3.36	6.92	-129	40.2	cloudy
1113		600		60.70	21.85	2.16	0.92	6.88	-102	12.9	clear
1116		1200		60.71	21.82	2.17	0.77	6.87	-99	8.3	clear
1119		1800		60.75	21.80	2.17	0.77	6.88	-98	2.1	clear
1122		2400		60.76	21.86	2.17	0.70	6.85	-95	1.0	clear
1125		3000		60.75	21.87	2.17	0.69	6.85	-91	0.9	clear
1127		3600		60.76	21.86	2.17	0.68	6.85	-90	0.8	clear
1130		4200		60.75	21.85	2.17	0.69	6.85	-89	0.9	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
1110	1130	200	4200	N/A	NA	60.75	1135	IRZMW004_WG20081329_01

Notes: (units) [stabilization criteria]

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

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GROUNDWATER SAMPLING DATA SHEET

Project Name:	Boeing C-6 GWM - Sitewide	**Date:**	3/29/08
Project No.:	1155.003	**Prepared by:**	TMC
Well Identification:	IRZMW005	**Weather:**	cloudy 60's
Measurement Point Description:	TOC	**Pump Intake:**	77.50
		Screen:	65 - 90

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	60.40	90		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 / missing bolt

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
1007	CM-4	0	200	60.42	21.14	1.66	6.69	7.61	138	57.3	cloudy
1010		600		60.40	21.42	1.69	1.28	6.53	21	30.6	cloudy
1013		1200		60.42	21.86	1.69	0.71	6.82	-11	14.6	cloudy
1016		1800		60.41	21.91	1.70	6.53	6.81	-56	9.8	cloudy
1019		2400		60.40	21.92	1.70	0.47	6.81	-40	7.9	cloudy
1022		3000		60.42	21.95	1.70	6.48	6.81	-61	8.1	clear
1025		3600		60.4	21.94	1.70	0.48	6.81	-62	8.2	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
1007	1025	200	3600	N/A	NA	60.41	1030	IRZMW005_WG2008039_01

Notes: (units) [stabilization criteria]

Field Parameters		
Ferrous Iron (mg/L)	PID (ppm):	Chemetrics D.O.(mg/L)
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GROUNDWATER SAMPLING DATA SHEET

Project Name:	Boeing C-6 GWM - Sitewide	**Date:** 3-29-08	
Project No.:	1155.003	**Prepared by:** BMC	
Well Identification:	IWC001	**Weather:** Partly Cloudy	
Measurement Point Description:	TOC	**Pump Intake:** 105	**Screen:** 95 - 115

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.)
N/A	61.08	115		N/A	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: 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
1247	CPM4	0	200	61.08	22.31	1.087	5.99	7.28	89	16.5	clear
1250		600		61.19	22.20	1.110	3.75	7.21	37	10.7	clear
1253		1200		61.20	21.76	1.266	5.08	7.18	121	8.3	clear
1256		1800		61.16	21.68	1.263	6.35	7.19	146	7.9	clear
1259		2400		61.21	21.67	1.265	6.38	7.19	148	7.5	clear
1302		3000		61.20	21.68	1.267	6.39	7.19	147	7.8	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
1247	1302	200	3000	N/A	NA	61.20	1307	IWC001_WG20080329_01

Notes: (units) [stabilization criteria]

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

DUP:

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GROUNDWATER SAMPLING DATA SHEET

Project Name:	Boeing C-6 GWM - Sitewide	**Date:** 3-29-08	
Project No.:	1155.003	**Prepared by:** EMC	
Well Identification:	IWC002	**Weather:** Partly cloudy	
Measurement Point Description:	TOC	**Pump Intake:** 106	**Screen:** 96 - 116

A	B	C	D = C - B	E = B - A	G = D x F	H = 20 x F	I = – B x F	
Depth to LNAPL (ft-bmp)	**Depth to Static Water Level** (ft-bmp)	**Well Total Depth** (ft-bmp)	**Water Column Height** (ft)	**LNAPL Thickness** (ft)	**One Casing Volume** (gallons)	**Screen Volume** (gallons)	**Above Screen Volume** (gal.)	**Total Purge Volume** (gal.)
N/A	58.82	116	57.18	N/A	N/A	N/A	N/A	N/A

	Gallons/Foot				
Well Diameter (inches) = 4	0.75	2	4	6	**Field Equipment:** QED
F - **Gallons per foot of casing**	0.02	0.16	0.65	1.47	**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
1311	CPM4	0	200	58.82	21.41	1.066	2.39	8.28	112	94.7	cloudy
1314	↓	600	↓	59.16	21.43	1.038	1.53	7.92	112	88.2	cloudy
1317	↓	1200	↓	59.20	21.51	1.033	1.51	7.78	113	99.4	cloudy
1320	↓	1800	↓	59.11	21.47	1.034	2.06	7.80	114	7.2	clear
1323	↓	2400	↓	59.10	21.46	1.036	2.07	7.80	116	6.9	clear
1326	↓	3000	↓	59.12	21.45	1.035	2.11	7.81	117	6.8	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
				N/A	NA	1329	1330	IWC002_WG200829_01

Notes: (units) [stabilization criteria]	Field Parameters			DUP:
	Ferrous Iron (mg/L)	PID (ppm):	Chemetrics D.O.(mg/L)	DRUM NO:
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GROUNDWATER SAMPLING DATA SHEET

Project Name:	Boeing C-6 GWM - Sitewide	**Date:**	3/29/08
Project No.:	1155.003	**Prepared by:**	MC
Well Identification:	MW0005	**Weather:**	Cloudy 60's
Measurement Point Description:	TOC	**Pump Intake:**	75
		Screen:	65 - 85

A	B	C	D = C - B	E = B - A	G = D x F	H = 20 x F	I = – B x F	
Depth to LNAPL (ft-bmp)	**Depth to Static Water Level** (ft-bmp)	**Well Total Depth** (ft-bmp)	**Water Column Height** (ft)	**LNAPL Thickness** (ft)	**One Casing Volume** (gallons)	**Screen Volume** (gallons)	**Above Screen Volume** (gal.)	**Total Purge Volume** (gal.)
NA	59.32	86		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
0929	cm-4	0	100	59.37	20.23	1.63	4.97	7.10	142	185	cloudy
0932		600		59.38	20.94	1.66	3.74	7.62	142	62	cloudy
0935		1200		59.35	21.17	1.66	3.89	7.03	142	60.1	cloudy
0938		1800		59.35	21.29	1.65	4.10	7.04	61	26.1	clear
0941		2400		59.35	21.44	1.65	4.42	7.05	51	13.6	clear
0944		3000		59.35	21.49	1.65	4.57	7.06	46	9.6	clear
0947		3600		59.35	21.49	1.65	4.58	7.05	45	9.3	clear
				59.35	21.50	1.64	4.57	7.06	46	9.1	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
0929	0947	100	3600	N/A	NA	59.35	0953	MW0005_WG2008 0329_01

Notes: (units) [stabilization criteria]

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

DUP:

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GROUNDWATER SAMPLING DATA SHEET

Project Name:	Boeing C-6 GWM - Sitewide	**Date:** -	3/29/08
Project No.:	1155.003	**Prepared by:**	BCD
Well Identification:	MWB027	**Weather:**	Overcast / Cool
Measurement Point Description:	TOC-N	**Pump Intake:**	COS
		Screen:	67.5 - 87.5

A	B	C	D = C - B	E = B - A	G = D x F	H = 20 x F	I = – B x F	
Depth to LNAPL (ft-bmp)	Depth to Static Water Level (ft-bmp)	Well Total Depth (ft-bmp)	Water Column Height (ft)	LNAPL Thickness (ft)	One Casing Volume (gallons)	Screen Volume (gallons)	Above Screen Volume (gal.)	Total Purge Volume (gal.)
—	63.67	88.50	24.83	—	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: missin 1 bolt from well lid

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
1301	10/5s @ 75psi	0	250	63.67	21.67	2.04	1.16	7.19	-113	8.23	colorless
1304	↓	.750	↓	—	21.61	2.05	1.05	7.20	-103	5.41	"
1307		1.50		—	21.59	2.05	0.97	7.19	-97	3.92	"
1310		2.25		—	21.60	2.07	0.85	7.19	-89	3.64	"
1313		3.00		—	21.59	2.08	0.79	7.18	-87	3.15	"
1316		3.75		—	21.58	2.09	0.72	7.19	-84	2.81	"
1319		4.50		—	21.57	2.09	0.70	7.18	-82	2.44	"
1322	↓	5.25	↓	~~63.~~ 64.22	21.59	2.09	0.69	7.18	-79	2.36	"

Purge Start Time	Purge End Time	Average Flow (mL/min)	Total Volume Purged (Liters)	Total Casing Volumes Purged	80% Recovery Water Level Depth (D x 0.20) + B	Water Level at Sampling Time (ft bmp)	Sample Collection Time	Sample Identification
1301	1322	250	5.25	N/A	NA	63. 64.22	1322	MWB027_WG2008 032901

Notes: (units) [stabilization criteria]

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

DUP:

DRUM NO:

AVOCET ENVIRONMENTAL, INC.

GROUNDWATER SAMPLING DATA SHEET

Project Name:	Boeing C-6 GWM - Sitewide	Date:	3/29/08
Project No.:	1155.003	Prepared by:	DCD
Well Identification:	WCC_03S	Weather:	Overcast / Cool
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 = 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.)
–	59.35	87.87	28.52	–	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: missing 1 bolt on well cover

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
1342	10/5s @ 75psi	0	250	59.35	22.01	0.572	1.39	7.23	-111	13.5	colorless
1345	↓	.750	↓	–	22.37	3.07	0.84	6.61	-157	5.87	"
1348		1.5		–	22.39	3.10	0.22	6.62	-171	2.18	"
1351		2.250		–	22.43	3.10	0.14	6.63	-178	1.79	"
1354		3.0		–	22.41	3.09	0.12	6.62	-181	1.60	"
1357		3.750		–	22.37	3.10	0.11	6.63	-182	1.65	"
1400		4.50		59.37	22.39	3.10	0.10	6.63	-183	1.71	"

Purge Start Time	Purge End Time	Average Flow (mL/min)	Total Volume Purged (Liters)	Total Casing Volumes Purged	80% Recovery Water Level Depth (Dx0.20) + B	Water Level at Sampling Time (ft bmp)	Sample Collection Time	Sample Identification
1342	1400	250	4.5	N/A	NA	59.37	1400	WCC_03S_WG2008 0329_01

Notes: (units) [stabilization criteria]

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

DUP:

DRUM NO:

AVOCET ENVIRONMENTAL, INC.

GROUNDWATER SAMPLING DATA SHEET

Project Name:	Boeing C-6 GWM - Sitewide	**Date:**	3/29/08
Project No.:	1155.003	**Prepared by:**	BCB
Well Identification:	MWG001	**Weather:**	Overcast / cool
Measurement Point Description:	TOC-N	**Pump Intake:**	205
		Screen:	156 - 186

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.)
—	62.69	189.95	127.26	—	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
1004	40/20, @ 250 psi	0	170	62.69	22.11	0.647	0.71	9.40	-77	14.8	colorless
1010	↓	1.02	↓	—	22.34	0.627	0.99	8.11	-61	6.51	"
1016		2.04		—	22.49	0.625	0.39	7.83	-111	1.22	"
1022		3.06		—	22.41	0.624	0.27	7.87	-124	1.17	"
1028		4.08		—	22.47	0.624	0.25	7.88	-125	0.92	"
1034		5.10		—	22.43	0.625	0.24	7.84	-125	0.87	"
1040		6.12		62.71	22.37	0.625	0.26	7.85	-127	0.83	"

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
1004	1040	170	6.12	N/A	NA	62.71	1040	MWG001_WG2008 0329_01

Notes: (units) [stabilization criteria]

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

DUP:
DRUM NO:

AVOCET ENVIRONMENTAL, INC.

GROUNDWATER SAMPLING DATA SHEET

Project Name:	Boeing C-6 GWM - Sitewide	Date:	3/29/08
Project No.:	1155.003	Prepared by:	BCB
Well Identification:	MWG002	Weather:	Overcast / Cool
Measurement Point Description:	TOC-N	Pump Intake:	cos 1-tan
		Screen:	162 - 192

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.)
–	63.67	191.86	128.19	–	N/A	N/A	N/A	N/A

	Gallons/Foot				
Well Diameter (inches) = 2	0.75	2	4	6	Field Equipment: QED
F - Gallons per foot of casing	0.02	0.16	0.65	1.47	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
1103	40/20 s @ 250 psi	0	170	63.67	22.34	0.643	0.72	7.87	-189	13.9	colorless
1109	↓	1.02	↓	–	22.44	0.661	0.67	7.95	-222	9.43	"
1115		2.04		–	22.50	0.662	0.21	7.99	-244	5.45	"
1121		3.06		–	22.44	0.662	0.19	8.00	-250	4.57	"
1127		4.08		–	22.46	0.662	0.18	7.99	-252	5.76	"
1133		5.10		–	22.45	0.662	0.17	7.99	-251	4.74	"
1139		~~4.42~~		63.69	22.45	0.662	0.17	8.00	-255	4.65	"
~~1145~~		6.12									

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
1103	~~1145~~ 1139	170	~~4.42~~ 6.12	N/A	NA	63.69	1139	MWG002_WG20080329_01

Notes: (units) [stabilization criteria]	Field Parameters			DUP:
	Ferrous Iron (mg/L)	~~PID (ppm)~~ Sulfide	Chemetrics D.O.(mg/L)	DRUM NO:
	0.04	0.80 mg/L		

AVOCET ENVIRONMENTAL, INC.

GROUNDWATER SAMPLING DATA SHEET

Project Name:	Boeing / Former C-6	Date:	3/28/08
Project No.:	1155.006	Prepared by:	BCB
Well Identification:	MWG003	Weather:	Overcast / Cool
Measurement Point Description:	TOC-N	Pump Intake:	COS
		Screen:	154.5 - 184.5

A	B	C	D = C - B	E = B - A	G = D x F	H = x F	I = – B x F	
Depth to LNAPL (ft-bmp)	Depth to Static Water Level (ft-bmp)	Well Total Depth (ft-bmp)	Water Column Height (ft)	LNAPL Thickness (ft)	One Casing Volume (gallons)	Screen Volume (gallons)	Above Screen Volume (gal.)	Total Purge Volume (gal.)
—	61.53	185	123.47	—	NA	NA	NA	NA

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

Field Equipment: QED

Purge Method: Low - flow

Well Condition: Good

Time	Flow Controller Settings	Volume Purged (Liters)	Flow Rate (mL/min)	Water Level (ft-bmp)	Temperature (°C) [+/- 10%]	Conductivity ( ) [+/- 10%]	Dissolved Oxygen (mg/L) [+/- 10%]	pH [+/- 0.1 pH]	ORP (mV) [+/- 10%]	Turbidity (NTU) [+/- 10%]	Observations
0751	40/20 @ 25 psi	0	170	61.53	19.50	0.073	1.43	6.69	101	3.31	colorless
0757	↓	1.02	↓	—	20.94	0.482	1.14	7.04	-136	11.1	"
0803		2.04		—	21.71	0.907	0.45	7.77	-144	16.0	"
0809		3.06		—	21.74	0.919	0.37	7.82	-157	11.2	"
0815		4.08		—	21.83	0.933	0.29	7.87	-179	7.46	"
0821		5.10		—	21.92	0.939	0.27	7.87	-182	7.75	"
0827		6.12		61.55	21.89	0.941	0.26	7.88	-181	6.27	"
~~0827~~											

Purge Start Time	Purge End Time	Average Flow ~~(gpm)~~ L/m	Total ~~Gallons~~ Purged	Total Casing Volumes Purged	80% Recovery Water Level Depth (Dx0.20) + B	Water Level at Sampling Time (ft bmp)	Sample Collection Time	Sample Identification
0751	0827	170	5.25 L	NA	NA	61.55	0827	MWG003_WG20080329_01

Notes: (units) [stabilization criteria]

DUP:

DRUM NO:

AVOCET ENVIRONMENTAL, INC.

GROUNDWATER SAMPLING DATA SHEET

Project Name:	Boeing / Former C-6	Date:	3/29/08
Project No.:	1155.006	Prepared by:	BCB
Well Identification:	MWG004	Weather:	Overcast / Cool mon
Measurement Point Description:	TOC-N	Pump Intake:	COS
		Screen:	155 - 185

A	B	C	D = C - B	E = B - A	G = D x F	H = 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.)
–	59.70	185.65	125.95	–	NA	NA	NA	NA

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

Field Equipment: QED

Purge Method: Low Flow

Well Condition: well box is broken - top 1/4 of box not connected

Time	Flow Controller Settings	Volume Purged (Liters)	Flow Rate (mL/min)	Water Level (ft-bmp)	Temperature (°C) [+/- 10%]	Conductivity ( ) [+/- 10%]	Dissolved Oxygen (mg/L) [+/- 10%]	pH [+/- 0.1 pH]	ORP (mV) [+/- 10%]	Turbidity (NTU) [+/- 10%]	Observations
0847	40/20s @250	0	170	59.70	20.28	0.517	1.66	7.87	-103	37.9	colorless
0853	↓	1.02	↓	–	21.76	0.195	0.47	7.42	-14	23.4	"
0859		2.04		–	21.81	0.267	0.37	7.45	-11	17.4	"
0905		3.06		–	21.75	0.359	0.35	7.49	-7	15.7	"
0911		4.08		–	21.77	0.290	0.34	7.52	-10	14.2	"
0917		5.10		–	21.80	0.372	0.29	7.61	-25	11.0	"
0923		6.12		~~59.71~~ 60.71	21.84	0.469	0.25	7.74	-32	7.21	"

Purge Start Time	Purge End Time	Average Flow (gpm)	Total ~~Gallons~~ Purged	Total Casing Volumes Purged	80% Recovery Water Level Depth (Dx0.20) + B	Water Level at Sampling Time (ft bmp)	Sample Collection Time	Sample Identification
0847	0923	170	6.12 L	NA	NA	[redacted].60.71	0923	MWG004_WG20080329-01

Notes: (units) [stabilization criteria]

Ferrous Iron (mg/L) 0.34

Sulfide (mg/L) 0.06

DUP:

DRUM NO:

AVOCET ENVIRONMENTAL, INC.

GROUNDWATER SAMPLING DATA SHEET

Project Name:	Boeing C-6 GWM - Sitewide	Date:	3/31/08
Project No.:	1155.003	Prepared by:	BCB
Well Identification:	XMW-19	Weather:	Clear / Warm
Measurement Point Description:	TOC-N	Pump Intake:	COS
		Screen:	63 - 79

A	B	C	D = C - B	E = B - A	G = D x F	H = 16 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.)
–	57.11	77.0	19.89	–	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 on well cover

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
1035	10/5 @ 70psi	0	250	57.11	23.16	1.72	2.04	6.87	72	157	little iron oxide
1038	↓	0.750	↓	–	22.72	2.35	1.57	7.17	61	106.9	"
1041		1.5		–	22.67	2.29	1.54	7.21	57	102.4	"
1044		2.25		–	22.66	2.21	1.56	7.23	51	98.1	"
1047		3.0		–	22.59	2.15	1.61	7.23	48	85.1	"
1050		3.75		–	22.60	2.07	1.69	7.24	45	73.3	"
1053		4.5		–	22.61	1.99	1.75	7.25	41	61.7	"
1056		5.25		57.17	22.62	1.99	1.82	7.23	36	49.4	"

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
1035	1056	250	5.25	N/A	NA	57.17	1056	XMW-19_WG20080331_01

Notes: (units) [stabilization criteria]

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

DUP:

DRUM NO:

AVOCET ENVIRONMENTAL, INC.

GROUNDWATER SAMPLING DATA SHEET

Project Name:	Boeing C-6 GWM - Sitewide	**Date:**	3/31/08
Project No.:	1155.003	**Prepared by:**	BCB
Well Identification:	XMW-09	**Weather:**	Clear/Windy
Measurement Point Description:	TOC N	**Pump Intake:**	60'
		Screen:	66 - 81

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.)
—	61.99	76.40	14.41	—	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: Missing 1 bolt for well cover

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
1216	10/5s @ 70%	0	250	61.99	23.57	2.66	1.81	6.77	171	78.7	Little iron oxide
1219		.750		—	22.35	2.74	1.27	6.76	189	78.5	"
1222		1.50		—	22.28	2.74	0.99	6.76	188	79.4	"
1225		2.25		—	22.24	2.74	0.94	6.77	189	82.1	"
1228		3.00		—	22.14	2.73	0.76	6.77	187	69.0	"
1231		3.750		—	21.91	2.73	0.67	6.77	187	59.9	"
1234		4.50		—	21.81	2.73	0.66	6.77	185	47.4	"
1237		5.25		62.04	21.92	2.74	0.65	6.78	189	35.2	"

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
1216	1237	250	5.25	N/A	NA	62.04	1227	XMW-09_WG2008 0331_01

Notes: (units) [stabilization criteria]

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

DUP:

DRUM NO:

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

CHAIN OF CUSTODY RECORD

COC #: AVO20080326A

Customer Information		Project Information		Project Information			
Site:	C6	Client Name:	Boeing	Collector:	Eric Costales	Boeing PM:	
Company:	Avocet Environmental, Inc.	Sampling Event:	Mar-08 Bldg. 2 Groundwater S	Contact #:			
Report to:	Michael Rendina	Project Number:	1155.006				
Address:	16 Technology Drive, Ste. 154	Project Manager:	Michael Rendina				
		PM Phone #:	(949) 933-6031				
	Irvine	Field Contact:	David Lieberman				
	CA	Field Contact #:	(949) 274-3449				
	92618	Lab Name:	Test America				
Email:	mrendina@avocetenv.com	Lab Contact:	Trupti Mistry				
		Lab Address:	17461 Derian Ave				
			Irvine, CA 92614				
		Lab Phone:	(040) 261-1022				

Requested Analyses

Instructions/TAT

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

H - Hold
EH - Extract/Extrude & Hold

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

Sample Name	Matrix	Date	Time	No. of Containers	Anions 300.0 NO2/NO3/Cl/SO4 Water	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	

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

Comments:

Geotracker EDF ☐

Data Validation Package ☐

CHAIN OF CUSTODY RECORD

COC #: AVO20080326B

Customer Information		Project Information		Project Information			
Site:	C6	Client Name:	Boeing	Collector:	Eric Costales/Brian Barsumian	Boeing PM:	
Company:	Avocet Environmental, Inc.	Sampling Event:	Mar-08 Sitewide Annual Groun	Contact #:			
Report to:	Michael Rendina	Project Number:	1155.006				
Address:	16 Technology Drive, Ste. 154	Project Manager:	Michael Rendina				
		PM Phone #:	(949) 933-6031				
	Irvine	Field Contact:	David Lieberman				
	CA	Field Contact #:	(949) 274-3449				
	92618	Lab Name:	Test America				
Email:	mrendina@avocetenv.com	Lab Contact:	Trupti Mistry				
		Lab Address:	17461 Derian Ave				
			Irvine, CA 92614				
		Lab Phone:	(949) 261-1022				

Requested Analyses

Instructions/TAT

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

H - Hold
EH - Extract/Extrude & Hold

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

Sample Name	Matrix	Date	Time	No. of Containers	VOCs 8260B C1 Water	Comments
MWC007_WG20080326_01	Water	3/26/2008	8:26	6	10	
MWB020_WG20080326_01	Water	3/26/2008	9:38	6	10	
MWC022_WG20080326_01	Water	3/26/2008	10:24	6	10	
WCC_04S_WG20080326_01	Water	3/26/2008	11:26	6	10	
MWC006_WG20080326_01	Water	3/26/2008	11:30	6	10	
MWC011_WG20080326_01	Water	3/26/2008	12:06	6	10	
WCC_07S_WG20080326_01	Water	3/26/2008	12:10	6	10	
WCC_07S_WG20080326_02	Water	3/26/2008	12:10	6	10	
MWB028_WG20080326_01	Water	3/26/2008	12:42	6	10	
TMW_08_WG20080326_01	Water	3/26/2008	13:27	6	10	

1. Relinquished by:	Date:	2. Received by:	Date:	3. Relinquished by:	Date:	4. Received by:	Date:
David Lieberman	3/26/2008		3-26-08				
Company: Avocet Environmental, Inc.	Time: 16:25	Company: TA I	Time: 1625	Company:	Time:	Company:	Time:

Comments: 5.8/3.8C

Geotracker EDF ☐

Data Validation Package ☐

CHAIN OF CUSTODY RECORD

COC #: AVO20080326B

Customer Information		Project Information		Project Information			
Site:	C6	Client Name:	Boeing	Collector:	Eric Costales/Brian Barsumian	Boeing PM:	
Company:	Avocet Environmental, Inc.	Sampling Event:	Mar-08 Sitewide Annual Groun	Contact #:			
Report to:	Michael Rendina	Project Number:	1155.006				
Address:	16 Technology Drive, Ste. 154	Project Manager:	Michael Rendina				
		PM Phone #:	(949) 933-6031				
	Irvine	Field Contact:	David Lieberman				
	CA	Field Contact #:	(949) 274-3449				
	92618	Lab Name:	Test America				
Email:	mrendina@avocetenv.com	Lab Contact:	Trupti Mistry				
		Lab Address:	17461 Derian Ave				
			Irvine, CA 92614				
		Lab Phone:	(949) 261-1022				

Requested Analyses

Instructions/TAT

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

H - Hold
EH - Extract/Extrude & Hold

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

Sample Name	Matrix	Date	Time	No. of Containers	VOCs 8260B C1 Water	Comments
MWC004_WG20080326_01	Water	3/26/2008	13:42	6	10	
EWC001_WG20080326_01	Water	3/26/2008	14:00	6	10	
WCC_06S_WG20080326_01	Water	3/26/2008	14:32	6	10	
MWB007_WG20080326_01	Water	3/26/2008	14:39	6	10	
EB_AVO20080326_01	Water	3-26-08	14:40	6	10	

1. Relinquished by:	Date:	2. Received by:	Date:	3. Relinquished by:	Date:	4. Received by:	Date:
David Lieberman	3/26/2008		3-26-08				
Company: Avocet Environmental, Inc.	Time: 16:25	Company: TA-I	Time: 1625	Company:	Time:	Company:	Time:

Comments: 5.8/3.8 °C

Geotracker EDF ☐

Data Validation Package ☐

CHAIN OF CUSTODY RECORD

COC #: AVO20080327A

Customer Information		Project Information		Project Information			
Site:	C6	Client Name:	Boeing	Collector:	Eric Costales/Brian Barsumian	Boeing PM:	
Company:	Avocet Environmental, Inc.	Sampling Event:	Mar-08 Sitewide Annual Groun	Contact #:			
Report to:	Michael Rendina	Project Number:	1155.006				
Address:	16 Technology Drive, Ste. 154	Project Manager:	Michael Rendina				
		PM Phone #:	(949) 933-6031				
	Irvine	Field Contact:	David Lieberman				
	CA	Field Contact #:	(949) 274-3449				
	92618	Lab Name:	Test America				
Email:	mrendina@avocetenv.com	Lab Contact:	Trupti Mistry				
		Lab Address:	17461 Derian Ave				
			Irvine, CA 92614				
		Lab Phone:	(040) 261-1022				

Requested Analyses

Instructions/TAT

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

H - Hold
EH - Extract/Extrude & Hold

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

Sample Name	Matrix	Date	Time	No. of Containers	VOCs 8260B C1 Water	Comments
TB_AVO20080327_01	Water	3/27/2008	0:00	6	10	
MWB006_WG20080327_01	Water	3/27/2008	7:14	6	10	
MWB013_WG20080327_01	Water	3/27/2008	7:53	6	10	
MWB003_WG20080327_01	Water	3/27/2008	8:05	6	10	
BL-03_WG20080327_01	Water	3/27/2008	8:38	6	10	
DAC-P1_WG20080327_01	Water	3/27/2008	9:14	6	10	
WCC_09S_WG20080327_01	Water	3/27/2008	9:37	6	10	
TMW_06_WG20080327_01	Water	3/27/2008	9:54	6	10	
MWC009_WG20080327_01	Water	3/27/2008	10:16	6	10	
MWB014_WG20080327_01	Water	3/27/2008	10:27	6	10	

1. Relinquished by:	Date:	2. Received by:	Date:	3. Relinquished by:	Date:	4. Received by:	Date:
David Lieberman	3/27/2008		3/27/08				
Company: Avocet Environmental, Inc.	Time: 16:52	Company: TAJ	Time: 1652	Company:	Time:	Company:	Time:

Comments: Intact/4.3/2.2°C

Geotracker EDF ☐

Data Validation Package ☐

CHAIN OF CUSTODY RECORD

COC #: AVO20080327A

Customer Information		Project Information		Project Information			
Site:	C6	Client Name:	Boeing	Collector:	Eric Costales/Brian Barsumian	Boeing PM:	
Company:	Avocet Environmental, Inc.	Sampling Event:	Mar-08 Sitewide Annual Groun	Contact #:			
Report to:	Michael Rendina	Project Number:	1155.006				
Address:	16 Technology Drive, Ste. 154	Project Manager:	Michael Rendina				
		PM Phone #:	(949) 933-6031				
	Irvine	Field Contact:	David Lieberman				
	CA	Field Contact #:	(949) 274-3449				
	92618	Lab Name:	Test America				
Email:	mrendina@avocetenv.com	Lab Contact:	Trupti Mistry				
		Lab Address:	17461 Derian Ave				
			Irvine, CA 92614				
		Lab Phone:	(040) 261-1022				

Requested Analyses

Instructions/TAT

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

H - Hold
EH - Extract/Extrude & Hold

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

Sample Name	Matrix	Date	Time	No. of Containers	VOCs 8260B C1 Water	Comments
MWB012_WG20080327_01	Water	3/27/2008	11:21	6	10	
TMW_14_WG20080327_01	Water	3/27/2008	11:38	6	10	
MWC016_WG20080327_01	Water	3/27/2008	12:04	6	10	
MWC021_WG20080327_01	Water	3/27/2008	12:42	6	10	
MWC021_WG20080327_02	Water	3/27/2008	12:42	6	10	
MWC015_WG20080327_01	Water	3/27/2008	12:44	6	10	
IRZB0081_WG20080327_01	Water	3/27/2008	13:22	6	10	
EB_AVO20080327_01	Water	3/27/2008	13:30	6	10	
CMW001_WG20080327_01	Water	3/27/2008	14:07	6	10	
MWB019_WG20080327_01	Water	3/27/2008	14:51	6	10	

1. Relinquished by:	Date:	2. Received by:	Date:	3. Relinquished by:	Date:	4. Received by:	Date:
David Lieberman	3/27/2008		3/27/08				
Company: Avocet Environmental, Inc.	Time: 16:52	Company: TAI	Time: 1652	Company:	Time:	Company:	Time:

Comments: intact 4.3/2.3

Geotracker EDF ☐

Data Validation Package ☐

BOEING

CHAIN OF CUSTODY RECORD

COC #: AVO20080328A

Customer Information		Project Information		Project Information			
Site:	C6	Client Name:	Boeing	Collector:	Brian Barsumian	Boeing PM:	
Company:	Avocet Environmental, Inc.	Sampling Event:	Mar-08 Sitewide Annual Groun	Contact #:			
Report to:	Michael Rendina	Project Number:	1155.006				
Address:	16 Technology Drive, Ste. 154	Project Manager:	Michael Rendina				
		PM Phone #:	(949) 933-6031				
	Irvine	Field Contact:	David Lieberman				
	CA	Field Contact #:	(949) 274-3449				
	92618	Lab Name:	Test America				
Email:	mrendina@avocetenv.com	Lab Contact:	Trupti Mistry				
		Lab Address:	17461 Derian Ave				
			Irvine, CA 92614				
		Lab Phone:	(949) 261-1022				

Requested Analyses

Instructions/TAT

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

H - Hold
EH - Extract/Extrude & Hold

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

Sample Name	Matrix	Date	Time	No. of Containers	VOCs 8260B C1 Water	Comments
TB_AVO20080328_01	Water	3/28/2008	0:00	6	10	
EWB001_WG20080328_01	Water	3/28/2008	8:10	6	10	
WCC_05S_WG20080328_01	Water	3/28/2008	9:2[illegible]	6	10	
TMW_15_WG20080328_01	Water	3/28/2008	10:36	6	10	
TMW_10_WG20080328_01	Water	3/28/2008	11:29	6	10	
TMW_11_WG20080328_01	Water	3/28/2008	12:10	6	10	
MWC017_WG20080328_01	Water	3/28/2008	13:30	6	10	
MWC017_WG20080328_02	Water	3/28/2008	13:30	6	10	
MWC023_WG20080328_01	Water	3/28/2008	14:26	6	10	

1. Relinquished by:	Date:	2. Received by:	Date:	3. Relinquished by:	Date:	4. Received by:	Date:
David Lieberman	3/28/2008						3/28/08
Company: Avocet Environmental, Inc.	Time: 15:58	Company:	Time:	Company:	Time:	Company: TAI	Time: 1558

Comments:

Geotracker EDF ☐

Data Validation Package ☐

7-115-1

CHAIN OF CUSTODY RECORD

COC #: AVO20080329A

Customer Information		Project Information	
Site:	C6	Client Name:	Boeing
Company:	Avocet Environmental, Inc.	Sampling Event:	Mar-08 Sitewide Annual Groun
Report to:	Michael Rendina	Project Number:	1155.006
Address:	16 Technology Drive, Ste. 154	Project Manager:	Michael Rendina
		PM Phone #:	(949) 933-6031
	Irvine	Field Contact:	David Lieberman
	CA	Field Contact #:	(949) 274-3449
	92618	Lab Name:	Test America
Email:	mrendina@avocetenv.com	Lab Contact:	Trupti Mistry
		Lab Address:	17461 Derian Ave
			Irvine, CA 92614
		Lab Phone:	(949) 261-1022

Project Information			
Collector:	Brian Barsumian	Boeing PM:	
Contact #:			

Requested Analyses

Instructions/TAT

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

H - Hold
EH - Extract/Extrude & Hold

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

Sample Name	Matrix	Date	Time	No. of Containers	Anions 300.0 NO2/NO3/Cl/SO4 Water	DHGs RSK175 Ethene/Ethane/Methane Water	VOCs 8260B C1 Water	Comments
MWG001_WG20080329_01	Water	3/29/2008	10:40	10	10	10	10	
MWG002_WG20080329_01	Water	3/29/2008	11:39	10	10	10	10	
MWG003_WG20080329_01	Water	3/29/2008	08:27	10	10	10	10	
MWG004_WG20080329_01	Water	3/29/2008	09:23	10	10	10	10	
TB_AVO20080329_01	Water	3/29/2008	0:00	6			10	

1. Relinquished by:	Date:	2. Received by:	Date:	3. Relinquished by:	Date:	4. Received by:	Date:
David Lieberman	3/29/2008						3/29/08
Company: Avocet Environmental, Inc.	Time: 13:13	Company:	Time:	Company:	Time:	Company: TAI	Time: 1313

Comments:

Geotracker EDF ☐

Data Validation Package ☐

6.5 | 4.5

BOEING

CHAIN OF CUSTODY RECORD

COC #: AVO20080331A

Customer Information		Project Information		Project Information			
Site:	C6	Client Name:	Boeing	Collector:	Eric Costales/Brian Barsumian	Boeing PM:	
Company:	Avocet Environmental, Inc.	Sampling Event:	Mar-08 Sitewide Annual Groun	Contact #:			
Report to:	Michael Rendina	Project Number:	1155.006				
Address:	16 Technology Drive, Ste. 154	Project Manager:	Michael Rendina				
		PM Phone #:	(949) 933-6031				
	Irvine	Field Contact:	David Lieberman				
	CA	Field Contact #:	(949) 274-3449				
	92618	Lab Name:	Test America				
Email:	mrendina@avocetenv.com	Lab Contact:	Trupti Mistry				
		Lab Address:	17461 Derian Ave				
			Irvine, CA 92614				
		Lab Phone:	(949) 261-1022				

Requested Analyses

Instructions/TAT

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

H - Hold
EH - Extract/Extrude & Hold

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

Sample Name	Matrix	Date	Time	No. of Containers	VOCs 8260B C1 Water	Comments
EWC002_WG2008 0329_01	Water	3/29/08	1215	6	10	
IRZB0095_WG2008 0329_01	Water		1100	6	10	
IRZMW001A_WG2008 0329_01	Water		0908	6	10	
IRZMW001B_WG2008 0329_01	Water		0830	6	10	
IRZMW004_WG2008 0329_01	Water		1135	6	10	
IRZMW005_WG2008 0329_01	Water		1030	6	10	
IWC001_WG2008 0329_01	Water		1307	6	10	
IWC002_WG2008 0329_01	Water		1330	6	10	
MW0005_WG2008 0329_01	Water		0953	6	10	
MWB027_WG2008 0329_01	Water		1322	6	10	

1. Relinquished by:	Date:	2. Received by:	Date:	3. Relinquished by:	Date:	4. Received by:	Date:
David Lieberman	3/31/2008	COLE JOHNSON	3/31/08	COLE JOHNSON	3/31/08	[illegible]	3-31-08
Company: Avocet Environmental, Inc.	Time: 16:58	Company: AVOCET	Time: 16:58	Company: AVOCET	Time: 17:26	Company: TA-I	Time: ~~1658~~ 1726

Comments:

Geotracker EDF ☐

Data Validation Package ☐

10.8/8.8 C

CHAIN OF CUSTODY RECORD

COC #: AVO20080331A

Customer Information		Project Information		Project Information			
Site:	C6	Client Name:	Boeing	Collector:	Eric Costales/Brian Barsumian	Boeing PM:	
Company:	Avocet Environmental, Inc.	Sampling Event:	Mar-08 Sitewide Annual Groun	Contact #:			
Report to:	Michael Rendina	Project Number:	1155.006				
Address:	16 Technology Drive, Ste. 154	Project Manager:	Michael Rendina				
		PM Phone #:	(949) 933-6031				
	Irvine	Field Contact:	David Lieberman				
	CA	Field Contact #:	(949) 274-3449				
	92618	Lab Name:	Test America				
Email:	mrendina@avocetenv.com	Lab Contact:	Trupti Mistry				
		Lab Address:	17461 Derian Ave				
			Irvine, CA 92614				
		Lab Phone:	(949) 261-1022				

Requested Analyses

Instructions/TAT

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

H - Hold
EH - Extract/Extrude & Hold

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

Sample Name	Matrix	Date	Time	No. of Containers	VOCs 8260B C1 Water	Comments
WCC_03S_WG2008 0329 _01	Water	3/29/08	1400	6	10	
XMW-09_WG2008 0331 _01	Water	3/31/08	~~1227~~ 12:37	6	10	
XMW-19_WG2008 0331 _01	Water	"	~~14~~ 1056	6	10	
EB_AVO20080329_01	Water	3/29/2008	~~13:27~~ 13:15	6	10	
TB_AVO20080329_02	Water	3/29/2008	0:00	6	10	

SL

1. Relinquished by:	Date:	2. Received by:	Date:	3. Relinquished by:	Date:	4. Received by:	Date:
David Lieberman	3/31/2008	COLE JOHNSON	3/31/08	COLE JOHNSON	3/31/08		3-31-08
Company: Avocet Environmental, Inc.	Time: 16:58	Company: AVOCET	Time: 1726	Company: AVOCET	Time: 1726	Company: TA-I	Time: 1726

Comments:

Geotracker EDF ☐

Data Validation Package ☐

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

Sheet of

Boeing CoC No. AVO20080331B

CHAIN OF CUSTODY RECORD

Project Information:

Site Name	Boeing C-6
Site Address	Torrance, CA
Project No.	1155.006
Project Manager	Michael Rendina
Sampled By	Brian Barsumian
Turn-Around-Time	Standard

Analyses

Sample Identification	Sample Date	Sample Time	Matrix	No. of Cntnrs.	Lab I.D. Number	VOCs 8260B A/A/2CVE Water			TPH/Carbon Chain Speciation (EPA 8015B-CC)	VOCs inc. fuel oxys (EPA 8260B)	SVOCs (EPA 8270C)	PAHs (EPA 8270C SIM or 8310)	PCBs (EPA 8082)	Title 22 Metals (EPA 6010B/7471A)	Hexavalent Chromium (EPA 7199)	pH (EPA 9045C)	24-HOUR TAT
TANK_20080331	03/31/08	14:27	water	6		X											

Relinquished by		Company	Received by		Company
Printed Name: David Lieberman	Date: 3-31-08	Avocet Environmental, Inc.	Printed Name: COLE JOHNSON	Date: 3/31/08	~~TestAmerica - Irvine~~ AVOCET
Signature:	Time: 16:59		Signature:	Time: 16:59	
Printed Name: COLE JOHNSON	Date: 3/31/08		Printed Name: Hernafea	Date: 3-31-08	
Signature:	Time: 17:26		Signature:	Time: ~~3-31-08~~	1726
Printed Name:	Date:		Printed Name:	Date:	
Signature:	Time:		Signature:	Time:	

Sample Receipt	Billing Information	Special Instructions
Total Containers		
Temperature °C 10.5/8.8°C °F Lab N		
COC Seal (Y/N/NA) Intact (Y/N)		

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