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October 26, 2007

Information Technology Unit
California Regional Water Quality Control Board
Los Angeles Region
320 West 4th Street, Suite 200
Los Angeles, California 90013

Subject: Third Quarter 2007 Waste Discharge Requirements (WDR) Monitoring Report, Compliance File CI-9310, Order No. R4-2007-0040
Biorecirculation Pilot Test - Former Building 1/36
Former Boeing C-6 Facility,
19503 Normandie Avenue, Los Angeles, CA 90501

Dear Sir/Madam:

On behalf of Boeing Corporate Real Estate (CRE) (formerly Boeing Realty Corporation), Camp Dresser McKee Inc. (CDM) is submitting this WDR monitoring report to the Los Angeles Regional Water Quality Control Board (LARWQCB) for the third quarter of 2007 per the WDR Order Number R4-2007-0040, Compliance File CI-9310 (LARWQCB, August 2007). The purpose of this report is to provide with a summary of bioremediation and groundwater monitoring activities performed at the Former Bldg 1/36 area of the Former C-6 Facility (Site). Figure 1 shows the Site layout and the monitoring wells of interest.

This monitoring report summarizes groundwater amendment and monitoring activities performed during the third quarter of 2007 along with the results of baseline sampling conducted in May and June 2007. In addition, this report provides a summary of the well completion activities associated with a new well EWB002 used as a Group B downgradient monitoring well (per the WDR Permit). Amendment activities performed during the reporting period are summarized in Section 1.0. Field activities associated with the installation of EWB002 and wellhead modifications to the monitoring wells of interest are summarized in Sections 2.0 and 3.0, respectively. Groundwater monitoring activities performed to date as part of this program including the baseline sampling activities are summarized in Section 4.0. Future sampling and other activities for the pilot test are provided in Section 5.0.

1.0 Amendment Activities

System startup testing was planned for the week of August 27, 2007 per the letter sent to the LARWQC (CDM, August 2007). However due to extraction pump mechanical failure, the system startup testing was actually initiated on September 12, 2007 following pump removal and replacement. Since then the system has been in an extended startup testing phase recirculating less than 1 gallon per minute (gpm) of groundwater from extraction well EWB001 into one or more of the four proposed amendment wells AW0064UB, AW0065UB, AW0066UB, and AW0067UB. Since September 19, 2007 the system operation has been adjusted to allow all the extracted water to be injected into one amendment well at a time for a period of at least one week to test the ability of the wells to accept water.

No amendment (whey) injection activities have been performed during this quarter.

2.0 Well Completion Activities

A monitoring well EWB002 was installed downgradient of the amendment wells to provide an additional monitoring location for the pilot test. Figure 1 shows the location of this well.

The well was installed between June 11 and June 13, 2007. All field work was conducted under the supervision of a State of California Professional Geologist. Field activities were conducted in accordance with CDM's Pilot Study Work Plan (CDM, February 2007) and Health and Safety Plan (HASP) (CDM, May 2007).

2.1 Pre-Field Activities

Prior to well installation activities, well construction permits were obtained from the County of Los Angeles, Department of Health Services. Copies of the well permits are included in Appendix A. Underground Service Alert of Southern California (DigAlert) was contacted on June 4, 2007 for utility clearance at the proposed boring location. In addition to DigAlert notification, the sampling location was surveyed on June 6, 2007 for subsurface obstructions, using geophysics (GEOVision). Copies of available existing infrastructure drawings for the properties were downloaded from the Boeing Environmental Data Management System and reviewed for potential conflicts. As a final precaution, three hand-auger borings were excavated in a triangular pattern to an approximate depth of 10 feet below ground surface (bgs) around the target boring location prior to drilling.

2.2 Drilling and Sampling

Well drilling activities were conducted by Cascade Drilling, Inc. (Cascade), of La Habra, California, a California-licensed well drilling contractor (C57 License No. 717510) under subcontract to CDM. The well was drilled using the sonic drilling method to a depth of 96 feet bgs. This method utilized high-frequency resonant energy to advance a core barrel and conductor casing into the underlying Bellflower aquitard. A 6-inch-diameter core barrel was used to pilot the boring and collect a continuous soil core of the penetrated formation which was logged in detail by the field geologist in accordance with the Unified Soil Classification System (USCS). Copies of the boring log prepared by the geologist are included in Appendix B. The continuous core was screened at regular intervals for organic vapors using a photoionization detector (PID) and the readings were recorded on the field boring logs. The PID was calibrated to a 100 parts per million (ppm) isobutylene standard. The soil types encountered during drilling consisted largely of gray-brown and olive-brown clays, yellowish-red silt, yellowish-brown silt/sand mixture, and poorly graded sand/silt mixtures. Groundwater was encountered during drilling at a depth of 60.7 feet bgs.

2.3 Well Construction

Well construction details are included in Table 1 which also includes construction details for the remaining wells associated with the pilot biorecirculation test. The well construction diagram for EWB002 is included on the soil boring log included in Appendix B. Six-inch-diameter Schedule 80 PVC casing and screen were used to construct the B-sand well EWB002. The screened portion of the well casing was 30 feet in length and consists of 0.02-inch machine-slotted PVC set at a depth of 90 feet bgs.

The filter pack consists of #3 Monterey sand that extends from the 56 to 91 feet bgs (from 1 foot below the bottom of the well to 4 feet above the top of the screened interval). Prior to placement of the annular seal, the wells were surged to settle the filter pack. The annular space above the filter pack was sealed with 6 feet of hydrated ⅜-inch bentonite pellets (50 to 56 feet bgs) followed by Portland cement-bentonite grout placed via tremie pipe. The well was fitted with an expandable locking well cap and encased in a 3-foot by 3-foot traffic-rated, flush-mounted well box.

2.4 Well Development

The well was developed on June 15, 2007, using the following methods and procedures. Prior to development, water level and the total depth of casing were gauged in the new well using a Solinst water level meter. The well was surged/swabbed using a vented surge block and then bailed using a 3.5-inch-diameter stainless steel bailer to remove solids. Surging and bailing lasted for approximately 90 minute. The wells were then purged using a submersible pump at an average rate of 4 to 5 gallons per minute (gpm). During purging, the depth-to-water was intermittently gauged and water quality parameters, including temperature, specific conductivity, pH, and turbidity, were measured using an YSI 556 Meter and HACH 2100P Turbidimeter. The maximum drawdown measured at the well was 10.25 feet at 4 gpm. These measurements were recorded on a well development form which is presented in Appendix C. Purging continued until temperature, specific conductance, and pH measurements stabilized and the turbidity decreased to around 10 nephelometric turbidity units (NTUs). Approximately 330 gallons of purge water was generated which was stored in 55-gallon drums pending waste profiling and disposal.

2.5 Decontamination

All non-dedicated drilling, development, and sampling equipment was decontaminated following use. Large equipment was decontaminated in a portable decontamination trailer using a steam cleaner while the small equipment was cleaned using a three-bucket wash with non-phosphate soap with a final potable water rinse.

2.6 Investigation-Derived Wastes

Investigation-derived waste (IDW) generated during well installation activities included soil cuttings, equipment decontamination rinsate, and purge/development water. A total of 21 drums (seven drums with soil, eight drums with equipment decontamination water from drilling, and six drums with well development water) were generated during well installation and development. Samples of the IDW for waste profiling were collected on June 15, 2007 from the drums and submitted to TestAmerica Analytical Testing Corporation of Irvine, California (TestAmerica), which is certified by the State of California for hazardous waste analysis. Upon receipt and review of the analytical data (Appendix D), the soil and the equipment decontamination water were classified as non-hazardous waste. On July 11, 2007, American Integrated Services (AIS) transported the drums containing non-hazardous solids to TPS Technologies in Adelanto, California, while the non-hazardous liquids were transported by AIS to Crosby & Overton, Inc. in Long Beach, California.

The well development water, however, was classified as hazardous due to elevated concentration of 1,1-dichloroethylene (>700 micrograms per liter [µg/L]). On July 11, 2007 AIS transported the hazardous liquids to Siemens Water Technologies in Los Angeles, California. Copies of the manifests for the IDW disposal are included in Appendix E.

2.7 Well Survey

On July 2, 2007, KDM Meridian (KDM), of Lake Forest, California, a licensed land surveyor, surveyed the well location and wellhead elevation. All horizontal coordinates reference the California Coordinate System (CCS), 83 North American Datum. Elevations reference the National American Vertical Datum (NAVD) of 1988. The survey coordinates for well EWB002 and the surveyors report is attached as Appendix F.

3.0 Wellhead Modifications

In addition, modifications to the wellheads of the four injection wells AW0064UB, AW0065UB, AW0066UB, AW0067UB, and six monitoring wells AW0055UB, AW0074UB, AW0075UB, AW0076UB, AW0077UB, AW0073C were performed to provide access for conducting performance monitoring during the pilot test. These modifications consisted of exposing these wells, extending the casing to within six to eight inches of the surface and encasing the exposed well in a traffic-rated, flush-mounted well box. A detail of the wellhead modification is included in Appendix F (Drawing C-3, Detail B) which also contains the revised elevations and other survey information for these wells.

4.0 Monitoring Activities

4.1 Baseline Monitoring

Two baseline sampling events have been performed at the Site. The first baseline sampling event was performed between May 7 and May 10, 2007. During the first (May) baseline sampling event, a total of 13 monitoring wells (AW0055UB, AW0064UB, AW0065UB, AW0066UB, AW0067UB, AW0074UB, AW0075UB, AW0076UB, AW0077UB, AW0073C, TMW_07, WCC_06S, and WCC_12S) were gauged and sampled. In addition, EWB001, although not required to be sampled per the WDR permit, was also gauged sampled to gather additional data. The second baseline sampling event was performed between June 18 and June 21, 2007. During the second (June) baseline sampling event a total of 15 monitoring wells were gauged and sampled. The wells monitored included the same 14 wells sampled in May plus well EWB002 which was installed in June 2007. Per the WDR permit, a second round of baseline sampling at EWB002 will be performed prior to injecting amendment. The monitoring well locations are identified on Figure 1.

Except as noted below, low flow sampling technique (Monsoon pump) was used for purging and sampling of the monitoring wells during both events. The low flow sampling technique consisted of purging at flow rates of less than 500 milliliters per minute (mL/min) while maintaining drawdown at less than 0.5 foot. Standard groundwater purging techniques were used for four wells during the May 2007 sampling event and five wells during the June 2007 sampling event and consisted of purging at higher flow rates using a 2-inch Grundfos electrical submersible pump. Field instruments were calibrated daily in the field. The purge water generated during the baseline sampling events was transported to an on-site storage tank located in the treatment compound pending subsequent analysis and off-site disposal.

The sampling methodology involved the use of a Horiba U-22 water tester with flow through cell to measure groundwater stabilization parameters (i.e., temperature, pH, turbidity, specific conductance, oxidation reduction potential [ORP], and dissolved oxygen [DO]). Prior to collecting the groundwater samples, depth to groundwater was measured in each monitoring well using a Solinst water level meter accurate to 0.01 feet. For each monitoring well, the flow-through cell was connected to the discharge of the sampling pump with dedicated polyethylene tubing. Once the field parameters stabilized, groundwater samples were collected in laboratory-prepared containers. Ferrous Iron and Hydrogen Sulfide testing was performed in the field using a colorimetric method (HACH DR890 Instrument) in the field. Field parameters and other relevant sampling data were documented on sample collection logs which are included as Appendix G. The groundwater samples were transported in a chilled ice chest with proper chain-of-custody documentation to TestAmerica.

The groundwater samples from both baseline sampling events were analyzed for the following compounds as required by the WDR Permit:

- Volatile organic compounds (VOCs) by EPA Method 8260B;
- Total organic carbon (TOC) by EPA Method 415.1 (equivalent to SW-846 EPA Method 9060A specified in WDR Permit);
- Total alkalinity by EPA Method 310.1;
- Volatile fatty acids (VFA) by EPA Method 300.0M (Ion Chromatography);
- Dissolved gases (carbon dioxide, nitrogen, ethene, ethane, and methane) by RSK-175;
- General minerals (sulfate, nitrate, nitrite, ammonia nitrogen, orthophosphate, and chloride) by EPA Methods 300.0; and 350.3 (for ammonia nitrogen); and

- Quantitative polymerase chain reaction (qPCR) test for Dehalococcoides bacteria and functional gene analyses for the three reductase (RDase) genes - tceA (TCE RDase), vcrA, and bvcA (BAV1 RDase).

Field parameter data collected during the two baseline sampling events are presented in Table 2. Inorganic analytical results are provided in Table 3. Analytical results for selected VOCs are summarized in Table 4. Dissolved gases analytical results are summarized in Table 5. qPCR and functional gene analytical results are presented in Table 6. VFA and TOC analytical results are provided in Table 7. Laboratory analytical data with associated chain-of-custody documentation are provided in Appendix H.

4.2 Semi-Annual Groundwater Elevation Data

Figures 2 shows the groundwater elevation contours for B-Sand based on the March 2007 water level gaging event. The average hydraulic gradient in the B-Sand across the Site is approximately 0.0008 ft/ft. Groundwater flow direction in the B-Sand ranges from south-southeast at areas north of Knox Street to south-southwest at areas south of Knox Street (see Figure 2).

4.3 Performance Monitoring

Since no amendment injections have been conducted during this reporting period, monthly and/or quarterly performance monitoring as required by the WDR Permit was not performed.

5.0 Future Activities

As mentioned in Section 1, the pilot system was operating during the startup phase at a sustained flow of less than 1 gpm which is substantially less than the anticipated design flow of 12 gpm. Operating the system at this low flowrate will not achieve the objectives of the pilot test. As a result, the system was shut down on October 18, 2007 and CDM is currently evaluating several options to increase groundwater production rate at the Site and operate the system close to the design or other suitable rate that achieves the objectives of the pilot biorecirculation test. These options are expected to include, but not necessary limited to one or more of the following tasks:

- Aggressive redevelopment of existing extraction well EWB001 in an attempt to increase the groundwater production rate;
- Redevelopment of one or more existing wells to determine their potential for use as a replacement or additional extraction well;

- Conversion of one or more of the existing monitoring wells downgradient of the injection wells into extraction wells; and
- System infrastructure modifications to add one or more additional extraction wells, as appropriate, to obtain an increased groundwater production rate.

Following the development of an appropriate approach, CDM will submit an addendum to the Pilot Study Workplan documenting the details of the plan along with a revised WDR groundwater monitoring and reporting schedule.

6.0 References

Camp Dresser McKee, Inc. 2007. *Addendum to Building 1/36 (Parcel C) Source-Area Groundwater In-Situ Reactive Zone Pilot Study Workplan, Boeing Realty Corporation, Former C-6 Facility, 19503 South Normandie Avenue, Los Angeles, California,* dated February 1, 2007.

Camp Dresser McKee, Inc. 2007. *Addendum No. 2 to May 2006 Health and Safety Plan, Biorecirculation Pilot Test at Former Bldg. 1/36 Boeing Realty Corporation, Former C-6 Facility, 19503 South Normandie Avenue, Los Angeles, California"*, dated May 4, 2007.

Camp Dresser McKee, Inc . 2007. *Notification of System Startup, Biorecirculation Pilot Test – Former Building 1/36, Waste Discharge Requirements for Pilot Tests to Evaluate Bioremediation of Volatile Organic Compounds (VOCs) in Groundwater, Boeing Realty Corporation, Former C-6 Facility, 19503 South Normandie Avenue, Los Angeles, California (File No. 95-036; SLIC NO. 410; Site ID No. 1846000),* dated August 24, 2007.

LARWQCB. 2007. *Waste Discharge Requirements for Pilot Tests to Evaluate Bioremediation of Volatile Organic Compounds (VOCs) in Groundwater, Boeing Realty Corporation, Former C-6 Facility, 19503 South Normandie Avenue, Los Angeles, California (File No. 95-036; SLIC NO. 410; Site ID No. 1846000),* dated August 10, 2007.

7.0 Certification

The information contained in this document has received appropriate technical review and approval. The conclusions and recommendations presented represent professional judgments and are based upon findings from the investigations and sampling identified in the report and the interpretation of such data based on our experience and background. This acknowledgement is made in lieu of all warranties, either expressed or implied. The activities outlined in this report were performed under the direct supervision of a California Registered Professional Engineer.

Please do not hesitate to contact the undersigned at 949-752-5452, if you have any questions.

Sincerely,

CAMP DRESSER & MCKEE INC.

Ravi Subramanian

Ravi Subramanian, P.E.
Registered Civil Engineer No. C53679

REGISTERED PROFESSIONAL ENGINEER
RAVI SUBRAMANIAN
No. C53679
Exp. 06/09
CIVIL
STATE OF CALIFORNIA

Attachments

cc: Ana Townsend, RWQCB
Mario Stavale, CRE
Robert Scott, CRE (W/o enclosure)
Joe Weidmann, Haley & Aldrich, Inc. (W/o enclosure)

Figures

Figure 1 - B-Sand Well Location Map, Former Building 1/36
Figure 2 - B-Sand Groundwater Elevations (March 2007)

Tables

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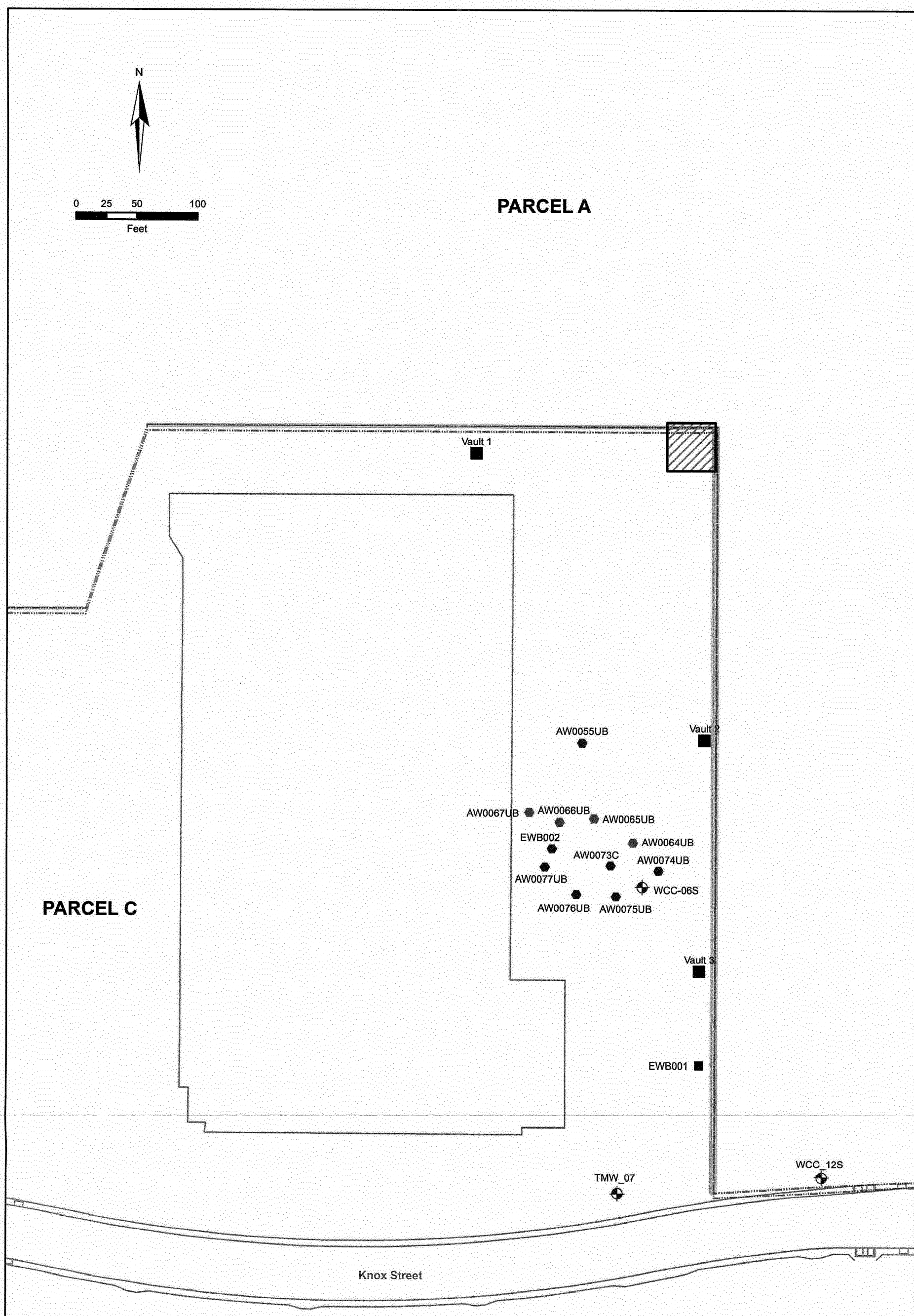
Table 2 - Summary of Field Parameters, Baseline Sampling Events (May and June 2007)
Table 3 - Summary of Inorganic Analytical Results, Baseline Sampling Events (May and June 2007)
Table 4 - Summary of Select VOC Analytical Results, Baseline Sampling Events (May and June 2007)
Table 5 - Summary of Dissolved Gases Analytical Results, Baseline Sampling Events (May and June 2007)
Table 6 - Summary of Dehalococcoides Bacteria and Functional Gene Analytical Results, Baseline Sampling Events (May and June 2007)
Table 7 - Summary of VFA and TOC Analytical Data, Baseline Sampling Events (May and June 2007)

Appendices

Appendix A - Well Installation Permit
Appendix B - Soil Boring Log and Well Construction Diagram
Appendix C - Well Development Form
Appendix D - IDW Laboratory Reports and Chain-of Custody Documents
Appendix E - Waste Manifests
Appendix F - Survey Report
Appendix G - Baseline Monitoring Field Data Reports
Appendix H - Baseline Monitoring Laboratory Reports and Chain-of Custody Documents (provided in electronic format - CD)



Legend

- Property Boundary
- Parcel Boundary
- Existing Compound
- Existing Vault
- B-Sand Extraction Well
- Group A Amendment Well (Upper B-Sand)
- Group B Monitoring Well ((6) Upper B-Sand and (1) C-Sand)
- Group C Downgradient Monitoring Well
- Group D Upgradient Well (Upper B-Sand)

Boeing Corporate Real Estate
Former C-6 Facility

B-Sand Well Location Map for Pilot Biorecirculation Test Former Building 1/36

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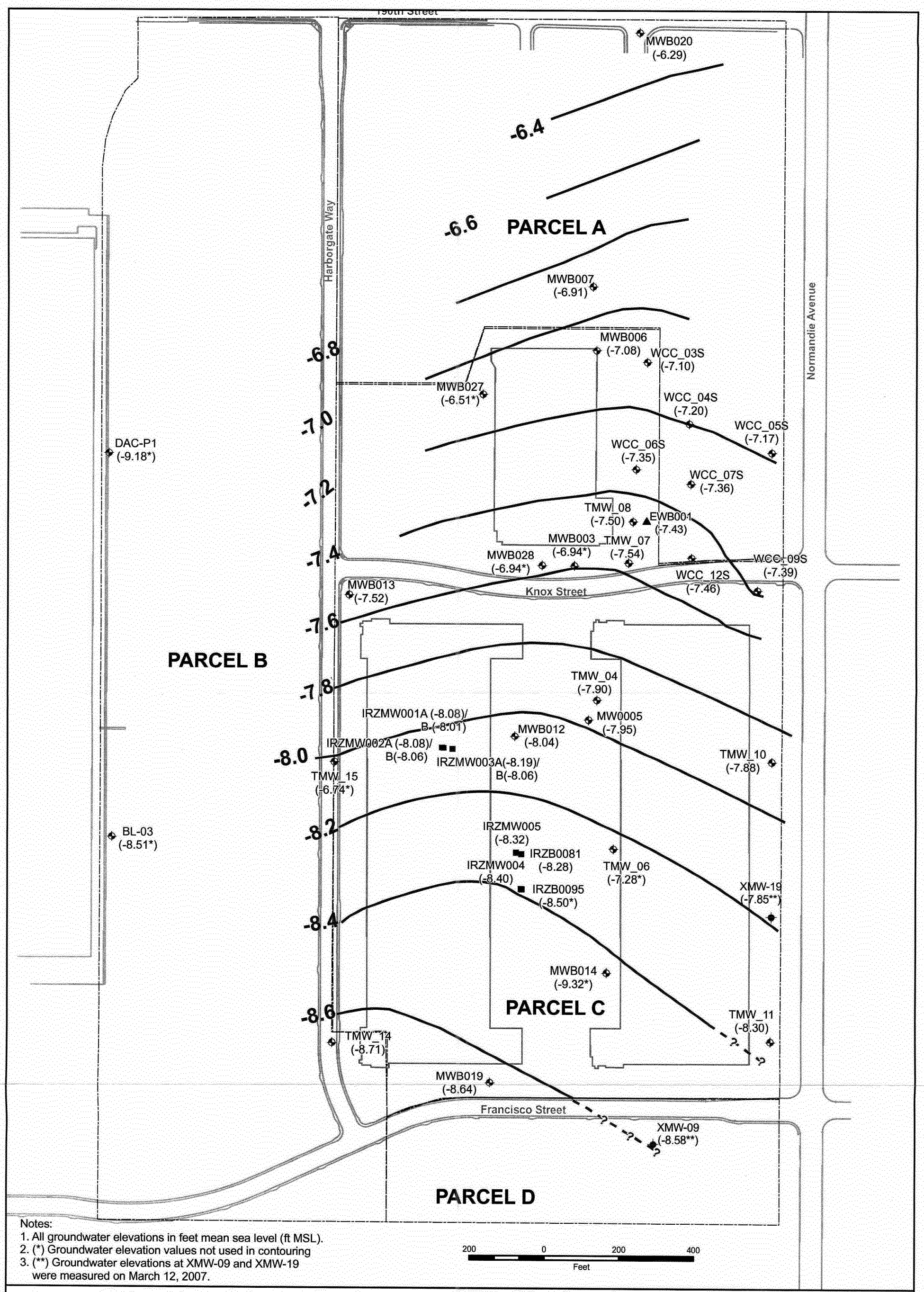
Figure 1



Notes:
1. All groundwater elevations in feet mean sea level (ft MSL).
2. (*) Groundwater elevation values not used in contouring
3. (**) Groundwater elevations at XMW-09 and XMW-19 were measured on March 12, 2007.

Legend

- Parcel Boundary
- Groundwater Elevation Contour (B-Sand)
- Inferred Groundwater Elevation Contour (B-Sand)
- B-Sand IRZ Bioremediation Monitoring Well
- Montrose Monitoring Well (B-Sand)
- B-Sand Monitoring Well
- B-Sand Observation Well

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Boeing Corporate Real Estate
Former C-6 Facility
B-Sand Groundwater Elevations (March 2007)

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Figure 2

Table 1
Well Completion Details - Groundwater Wells of Interest
Pilot Biorecirculation Test - Former Building 1/36
Boeing Corporate Real Estate, Former C-6 Facility
Los Angeles, California

Well ID	Easting	Northing	Casing	Screen	Screen Depth Interval (ft. bgs)	
Extraction Well						
EWB001	6470381	1769604	6-in PVC	0.02 Inch Slotted PVC	59.2	89.2
Injection Wells (Group A)						
AW0064UB	6470346	1769801	2-in PVC	0.02 Inch Slotted PVC	68.5	88.5
AW0065UB	6470316	1769802	2-in PVC	0.02 Inch Slotted PVC	68.5	88.5
AW0066UB	6470286	1769802	2-in PVC	0.02 Inch Slotted PVC	69.5	89.5
AW0067UB	6470261	1769810	2-in PVC	0.02 Inch Slotted PVC	70	90
Performance Monitoring Wells (Group B)						
EWB002	6470279	1769773	6-in PVC	0.02 Inch Slotted PVC	60	90
AW0074UB	6470365	1769759	2-in PVC	0.02 Inch Slotted PVC	70	90
AW0075UB	6470332	1769740	2-in PVC	0.02 Inch Slotted PVC	69	89
AW0076UB	6470302	1769740	2-in PVC	0.02 Inch Slotted PVC	69	89
AW0077UB	6470254	1769763	2-in PVC	0.02 Inch Slotted PVC	70.5	85.5
WCC_6S	6470336	1769734	4-in PVC	0.01 Inch Slotted PVC	60	90
AW0073C	6470329	1769765	2-in PVC	0.02 Inch Slotted PVC	96	116
Downgradient Wells (Group C)						
WCC_12S	6470506	1769496	4-in PVC	0.01 inch slotted PVC	60	90
TMW_7	6470318	1769483	2-in PVC	0.01 inch slotted PVC	65	85
Upgradient Wells (Group D)						
AW0055UB	6470304	1769863	2-in PVC	0.02 Inch Slotted PVC	69	89

Table 2
Summary of Field Parameters
Baseline Sampling Events (May and June 2007)
Pilot Biorecirculation Test - Former Building 1/36
Boeing Corporate Real Estate, Former C-6 Facility
Los Angeles, California

Well ID	Category	Monitoring Date	Conductivity (µS/CM)	Dissolved Oxygen (mg/L)	Ferrous Iron (mg/L)	Hydrogen Sulfide (mg/L)	Oxidation Reduction Potential (mV)	pH	Temperature (°C)
AW0055UB	B-Sand	5/10/2007	2780	3.5	0	NM	-134	6.6	24.8
AW0055UB	B-Sand	6/20/2007	2960	1	2	0.2332	123	6.49	23
AW0064UB	B-Sand	5/9/2007	2900	5.9	0.05	NM	-117	5.3	23.8
AW0064UB	B-Sand	6/20/2007	2270	2.56	0.09	0.1802	128	6.62	23.9
AW0065UB	B-Sand	5/10/2007	3550	2.68	0.08	NM	-119	6.32	22.1
AW0065UB	B-Sand	6/21/2007	3670	2.19	3.3	0.1166	105	6.51	24.3
AW0066UB	B-Sand	5/10/2007	5800	3.8	0.08	NM	-99	5.1	21.4
AW0066UB	B-Sand	6/20/2007	3870	1.76	3.24	0.689	110	6.41	24.8
AW0067UB	B-Sand	5/10/2007	1500	3.9	0	NM	97	5.5	22.9
AW0067UB	B-Sand	6/19/2007	3340	1	0.12	0.0742	96	7	22.8
AW0073C	C-Sand	5/10/2007	1100	3.2	0	NM	-140	5.4	24.1
AW0073C	C-Sand	6/20/2007	539	0	0.21	0.159	275	6.96	23.4
AW0074UB	B-Sand	5/9/2007	1900	4.3	0	NM	35	5.3	23.3
AW0074UB	B-Sand	6/19/2007	2610	1.57	0.08	0.0954	11.7	6.67	25.3
AW0075UB	B-Sand	5/9/2007	2500	6.2	0	NM	-115	5.3	25
AW0075UB	B-Sand	6/21/2007	2520	0.73	3.05	0.2226	131	6.58	22.4
AW0076UB	B-Sand	5/9/2007	5400	6	0.01	NM	-119	5.3	23.7
AW0076UB	B-Sand	6/21/2007	4100	1.45	3.3	0.09	116	6.54	22.6
AW0077UB	B-Sand	5/10/2007	3600	5.2	0	NM	-144	5.2	25.3
AW0077UB	B-Sand	6/20/2007	4000	1.25	0.26	0.1908	157	6.14	25.5
EWB001	B-Sand	5/8/2007	1900	2.6	0.37	NM	-211	7.4	23.9
EWB001	B-Sand	6/18/2007	1700	0.03	0.03	0	20	7.21	23.7
EWB002	B-Sand	6/21/2007	2560	0.92	3.3	0.106	101	6.61	23.3
TMW_07	B-Sand	5/8/2007	1800	7.4	0.53	NM	42	7.4	26.2
TMW_07	B-Sand	6/18/2007	1460	11.37	0.45	0.1166	85	7.23	24.7
WCC_06S	B-Sand	5/8/2007	2900	2.5	3.3	NM	-138	7	25
WCC_06S	B-Sand	6/19/2007	5960	1.07	0.54	0.0742	27	6.99	23.9
WCC_12S	B-Sand	5/9/2007	2200	5.2	0	NM	-30	5.6	24.5
WCC_12S	B-Sand	6/18/2007	2050	9.95	0.12	0.0106	63	7.22	23.6

Notes:
NM = Not measured

BOE-C6-0187200

Table 3
Summary of Inorganic Analytical Results
Baseline Sampling Events (May and June 2007)
Pilot Biorecirculation Test - Former Building 1/36
Boeing Corporate Real Estate, Former C-6 Facility
Los Angeles, California

Well ID	Category	Sample Date	Sample Type	Alkalinity as CaCO3 (mg/L)	Ammonia-N (mg/L)	Chloride (mg/L)	Nitrate-NO3 (mg/L)	Nitrite-NO2 (mg/L)	Orthophosphate - PO4 (mg/L)	Sulfate - SO4 (mg/L)
AW0055UB	B-Sand	5/10/2007	Primary	650	0.17 J	580	0.5 U	10 UQC	0.5 U	1.8 B
AW0055UB	B-Sand	6/20/2007	Primary	560	NA	670	2.5 UQC	2.5 UQC	NA	2.5 JBQC
AW0064UB	B-Sand	5/9/2007	Primary	500	0.085 J	480	0.5 U	10 UQC	0.5 U	10
AW0064UB	B-Sand	6/20/2007	Primary	480	NA	490	0.5 U	0.5 U	NA	11
AW0065UB	B-Sand	5/10/2007	Primary	480	0.099 J	720	0.5 U	10 UQC	0.5 U	0.5 U
AW0065UB	B-Sand	5/10/2007	Field Duplicate	460	0.5 U	730	0.5 U	10 UQC	0.5 U	0.5 U
AW0065UB	B-Sand	6/21/2007	Primary	650	NA	760	0.5 U	0.5 U	NA	4.1
AW0066UB	B-Sand	5/10/2007	Primary	500	0.5 U	820	0.5 U	10 UQC	0.5 U	0.5 U
AW0066UB	B-Sand	6/20/2007	Primary	560	NA	890	2.5 UQC	2.5 UQC	NA	2.5 UQC
AW0067UB	B-Sand	5/10/2007	Primary	270	0.5 U	290	4.4	10 UQC	0.5 U	28
AW0067UB	B-Sand	6/19/2007	Primary	370	NA	420	1.3	0.5 U	NA	40
AW0073C	C-Sand	5/10/2007	Primary	210	0.5 U	180	0.5 U	10 UQC	0.5 U	24
AW0073C	C-Sand	6/20/2007	Primary	270	NA	210 QC	0.5 UQC	0.5 UQC	NA	7.4
AW0074UB	B-Sand	5/9/2007	Primary	270	0.5 U	340	0.5 U	10 UQC	0.5 U	21
AW0074UB	B-Sand	6/19/2007	Primary	270	NA	350	0.5 U	0.5 U	NA	23
AW0075UB	B-Sand	5/9/2007	Primary	460	0.5 U	520	0.5 U	10 UQC	0.5 U	11
AW0075UB	B-Sand	6/21/2007	Primary	510	NA	540	0.5 U	0.5 U	NA	10
AW0076UB	B-Sand	5/9/2007	Primary	620	0.5 U	760	0.5 U	10 UQC	0.5 U	0.5 U
AW0076UB	B-Sand	6/21/2007	Primary	760	NA	810	0.5 U	0.5 U	NA	0.5 U
AW0077UB	B-Sand	5/10/2007	Primary	650	4.4	640	2.5 UQC	2.5 UQC	6.4	2.7
AW0077UB	B-Sand	6/20/2007	Primary	870	NA	610	2.5 UQC	2.5 UQC	NA	2.5 UQC
EWB001	B-Sand	5/8/2007	Primary	210	0.11 J	370	7.8	10 UQC	0.5 U	21
EWB001	B-Sand	6/18/2007	Primary	190	NA	420	1.2	0.5 U	NA	27
EWB002	B-Sand	6/21/2007	Primary	450	NA	530	3.4	0.5 U	NA	18
EWB002	B-Sand	6/21/2007	Field Duplicate	460	NA	530	3.4	0.5 U	NA	18
TMW_07	B-Sand	5/8/2007	Primary	310	0.077 JB	230	34	10 UQC	0.5 U	81
TMW_07	B-Sand	6/18/2007	Primary	330	NA	250	40	0.5 U	NA	110
WCC_06S	B-Sand	5/8/2007	Primary	340	0.24 JB	590	9.7	10 UQC	0.5 U	21
WCC_06S	B-Sand	6/19/2007	Primary	140	NA	920	7.1	0.5 U	NA	43
WCC_12S	B-Sand	5/9/2007	Primary	180	0.5 U	180	22	10 UQC	0.5 U	480
WCC_12S	B-Sand	6/18/2007	Primary	180	NA	380	28	0.5 U	NA	440

Notes:
NA = Not analyzed
U = Not detected at a concentration greater than the laboratory reporting limit indicated
J = Estimated concentration detected below the laboratory reporting limit
QC = Laboratory quality control issue identified; may not impact data usability. Refer to Appendix H of the report for more details
B= Detected in Method Blank

BOE-C6-0187201

Table 4
Summary of Select VOC Analytical Results
Baseline Sampling Events (May and June 2007)
Pilot Biorecirculation Test - Former Building 1/36
Boeing Corporate Real Estate, Former C-6 Facility
Los Angeles, California

Well ID	Category	Sample Date	Sample Type	Tetrachloroethene (ug/L)	Trichloroethene (ug/L)	cis-1,2-Dichloroethene (ug/L)	trans-1,2-Dichloroethene (ug/L)	Vinyl chloride (ug/L)
AW0055UB	B-Sand	5/10/2007	Primary	25 U	1600	10000	270	40
AW0055UB	B-Sand	6/20/2007	Primary	20 U	1500	12000	360	67
AW0064UB	B-Sand	5/9/2007	Primary	0.61 J	1300	4700	230	13
AW0064UB	B-Sand	6/20/2007	Primary	40 U	1200	4200	240	23
AW0065UB	B-Sand	5/10/2007	Primary	200 U	200 U	6200	310	100 U
AW0065UB	B-Sand	5/10/2007	Field Duplicate	250 U	250 U	7000	350	120 U
AW0065UB	B-Sand	6/21/2007	Primary	200 U	86 J	8700	360	100 U
AW0066UB	B-Sand	5/10/2007	Primary	250 U	100 J	8400	360	220
AW0066UB	B-Sand	6/20/2007	Primary	1000 U	1000 U	11000	410 J	340 J
AW0067UB	B-Sand	5/10/2007	Primary	20 U	3700	1000	73	10 U
AW0067UB	B-Sand	6/19/2007	Primary	0.36 J	3100	6100	220	10
AW0073C	C-Sand	5/10/2007	Primary	40 U	210	1200	75	20 U
AW0073C	C-Sand	6/20/2007	Primary	50 U	140	1400	84	25 U
AW0074UB	B-Sand	5/9/2007	Primary	0.55 J	2300	120	79	0.52
AW0074UB	B-Sand	6/19/2007	Primary	0.35 J	1400	1100	120	5
AW0075UB	B-Sand	5/9/2007	Primary	1 U	560	6800	340	32
AW0075UB	B-Sand	6/21/2007	Primary	20 U	410	6700	330	62
AW0076UB	B-Sand	5/9/2007	Primary	1 U	53	12000	500	25
AW0076UB	B-Sand	6/21/2007	Primary	100 U	48 J	11000	400	50 U
AW0077UB	B-Sand	5/10/2007	Primary	100 U	230	6400	220	120
AW0077UB	B-Sand	6/20/2007	Primary	100 U	41 J	8600	280	320
EWB001	B-Sand	5/8/2007	Primary	10 U	560	56	4.1 J	5 U
EWB001	B-Sand	6/18/2007	Primary	2 U	680	49	4.2	1 U
EWB002	B-Sand	6/21/2007	Primary	10 U	650 QC	5800	300	16
EWB002	B-Sand	6/21/2007	Field Duplicate	10 U	620	6200	300	19
TMW_07	B-Sand	5/8/2007	Primary	1.3	1700	1.6	1 U	0.5 U
TMW_07	B-Sand	6/18/2007	Primary	0.85 J	1600	2.6	1 U	0.5 U
WCC_06S	B-Sand	5/8/2007	Primary	20 U	1000	2400	150	550
WCC_06S	B-Sand	6/19/2007	Primary	1.6	590	630	58	210
WCC_12S	B-Sand	5/9/2007	Primary	0.93 J	110	0.97 J	1 U	0.5 U
WCC_12S	B-Sand	6/18/2007	Primary	1	140	1.7	1 U	0.5 U

Notes:
NA = Not analyzed
U = Not detected at a concentration greater than the laboratory reporting limit indicated
J = Estimated concentration detected below the laboratory reporting limit

BOE-C6-0187202

Table 5
Summary of Dissolved Gases Analytical Results
Baseline Sampling Events (May and June 2007)
Pilot Biorecirculation Test - Former Building 1/36
Boeing Corporate Real Estate, Former C-6 Facility
Los Angeles, California

Well ID	Category	Sample Date	Sample Type	Carbon Dioxide (ug/L)	Ethane (ug/L)	Ethylene (ug/L)	Methane (ug/L)	Nitrogen (ug/L)
AW0055UB	B-Sand	5/10/2007	Primary	160000	2 U	3 U	1.2	91000
AW0055UB	B-Sand	6/20/2007	Primary	NA	2 U	3 U	1.3	
AW0064UB	B-Sand	5/9/2007	Primary	130000	2 U	3 U	1.3	94000
AW0064UB	B-Sand	6/20/2007	Primary	NA	2 U	3 U	1 U	NA
AW0065UB	B-Sand	5/10/2007	Primary	180000	2 U	3 U	1.4	93000
AW0065UB	B-Sand	5/10/2007	Field Duplicate	180000	2 U	3 U	1.3	90000
AW0065UB	B-Sand	6/21/2007	Primary	NA	2 U	3 U	1.2	NA
AW0066UB	B-Sand	5/10/2007	Primary	180000	2 U	3 U	3.3	94000
AW0066UB	B-Sand	6/20/2007	Primary	NA	2 U	3 U	1 U	NA
AW0067UB	B-Sand	5/10/2007	Primary	36000	2 U	3 U	1.2	98000
AW0067UB	B-Sand	6/19/2007	Primary	NA	2 U	3 U	1.4	NA
AW0073C	C-Sand	5/10/2007	Primary	24000	2 U	3 U	1.3	97000
AW0073C	C-Sand	6/20/2007	Primary	NA	2 U	3 U	1.6	NA
AW0074UB	B-Sand	5/9/2007	Primary	54000	2 U	3 U	1.2	96000
AW0074UB	B-Sand	6/19/2007	Primary	NA	2 U	3 U	1.3	NA
AW0075UB	B-Sand	5/9/2007	Primary	150000	2 U	3 U	1.1	92000
AW0075UB	B-Sand	6/21/2007	Primary	NA	2 U	3 U	1.1	NA
AW0076UB	B-Sand	5/9/2007	Primary	220000	2 U	3 U	1.4	90000
AW0076UB	B-Sand	6/21/2007	Primary	NA	2 U	3 U	1.2	NA
AW0077UB	B-Sand	5/10/2007	Primary	270000	2 U	3 U	850	86000
AW0077UB	B-Sand	6/20/2007	Primary	NA	2 U	3 U	1200	NA
EWB001	B-Sand	5/8/2007	Primary	21000	2 U	3 U	12	99000
EWB001	B-Sand	6/18/2007	Primary	NA	2 U	3 U	9.4	NA
EWB002	B-Sand	6/21/2007	Primary	NA	2 U	3 U	2.3	NA
EWB002	B-Sand	6/21/2007	Field Duplicate	NA	2 U	3 U	2.3	NA
TMW_07	B-Sand	5/8/2007	Primary	31000	2 U	3 U	1 U	96000
TMW_07	B-Sand	6/18/2007	Primary	NA	2 U	3 U	1 U	NA
WCC_06S	B-Sand	5/8/2007	Primary	NA	NA	NA	NA	NA
WCC_06S	B-Sand	6/19/2007	Primary	NA	2 U	3 U	1.5	NA
WCC_12S	B-Sand	5/9/2007	Primary	17000	2 U	3 U	1.4	98000
WCC_12S	B-Sand	6/18/2007	Primary	NA	2 U	3 U	1 U	NA

Notes:
NA = Not analyzed
U = Not detected at a concentration greater than the laboratory reporting limit indicated

BOE-C6-0187203

Table 6
Summary of Dehaloccoides Bacteria and Functional Gene Analytical Results
Baseline Sampling Events (May and June 2007)
Pilot Biorecirculation Test - Former Building 1/36
Boeing Corporate Real Estate, Former C-6 Facility
Los Angeles, California

Well ID	Category	Sample Date	Sample Type	Dehalococcoides 16S rDNA (gene copies/L Groundwater)	Dehalococcoides tceA (gene copies/L Groundwater)	Dehalococcoides bvcA (gene copies/L Groundwater)	Dehalococcoides vcrA (gene copies/L Groundwater)
AW0055UB	B-Sand	5/10/2007	Primary	ND	ND	ND	ND
AW0055UB	B-Sand	6/20/2007	Primary	ND	ND	860 BRL	ND
AW0064UB	B-Sand	5/9/2007	Primary	ND	ND	ND	ND
AW0064UB	B-Sand	6/20/2007	Primary	ND	ND	ND	ND
AW0065UB	B-Sand	5/10/2007	Primary	ND	ND	ND	ND
AW0065UB	B-Sand	5/10/2007	Field Duplicate	ND	ND	ND	ND
AW0065UB	B-Sand	6/21/2007	Primary	ND	ND	ND	ND
AW0066UB	B-Sand	5/10/2007	Primary	ND	ND	**180,000**	ND
AW0066UB	B-Sand	6/20/2007	Primary	ND	ND	ND	ND
AW0067UB	B-Sand	5/10/2007	Primary	ND	ND	ND	ND
AW0067UB	B-Sand	6/19/2007	Primary	ND	ND	ND	ND
AW0073C	C-Sand	5/10/2007	Primary	ND	ND	ND	ND
AW0073C	C-Sand	6/20/2007	Primary	ND	ND	ND	ND
AW0074UB	B-Sand	5/9/2007	Primary	ND	ND	ND	240 BRL
AW0074UB	B-Sand	6/19/2007	Primary	3,560 BRL	ND	250 BRL	ND
AW0075UB	B-Sand	5/9/2007	Primary	ND	ND	ND	560 BRL
AW0075UB	B-Sand	6/21/2007	Primary	ND	ND	ND	ND
AW0076UB	B-Sand	5/9/2007	Primary	ND	ND	ND	ND
AW0076UB	B-Sand	6/21/2007	Primary	ND	ND	270 BRL	ND
AW0077UB	B-Sand	5/10/2007	Primary	ND	ND	ND	390 BRL
AW0077UB	B-Sand	6/20/2007	Primary	ND	ND	ND	ND
EWB001	B-Sand	5/9/2007	Primary	60.5 BRL	ND	ND	ND
EWB001	B-Sand	6/19/2007	Primary	ND	ND	31,000 BRL	ND
EWB002	B-Sand	6/21/2007	Field Duplicate	ND	ND	ND	ND
EWB002	B-Sand	6/21/2007	Primary	ND	ND	1,200 BRL	ND
TMW_07	B-Sand	5/9/2007	Primary	ND	ND	ND	ND
TMW_07	B-Sand	6/19/2007	Primary	ND	ND	ND	ND
WCC_06S	B-Sand	5/9/2007	Primary	ND	ND	ND	ND
WCC_06S	B-Sand	6/19/2007	Primary	**6,480,000**	ND	**1,100,000**	ND
WCC_12S	B-Sand	5/9/2007	Primary	ND	ND	ND	ND
WCC_12S	B-Sand	6/19/2007	Primary	7,780 BRL	ND	1,100 BRL	ND

Notes:
ND = Non Detect. Target if present is below the detection limit of the assay (0.2 gene copies/µL of DNA Extraction)
BRL = Below Reporting Limits. The target is present in the sample at the concentration shown , but is below the reporting limit of 50 gene copies/µL of DNA e:

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Table 7
Summary of VFA and TOC Analytical Data
Baseline Sampling Events (May and June 2007)
Pilot Biorecirculation Test - Former Building 1/36
Boeing Corporate Real Estate, Former C-6 Facility
Los Angeles, California

Well ID	Category	Sample Date	Sample Type	Acetic Acid (mg/L)	Butyric Acid (mg/L)	Hexanoic Acid (mg/L)	i-Hexanoic Acid (mg/L)	i-Pentanoic Acid (mg/L)	Lactic Acid (mg/L)	Pentanoic Acid (mg/L)	Propionic Acid (mg/L)	Pyruvic Acid (mg/L)	TOC (mg/L)
AW0055UB	B-Sand	5/10/2007	Primary	84.1	0.975	NR	NR	NR	1 U	NR	17.2	NR	76
AW0055UB	B-Sand	6/20/2007	Primary	140	2.8	0.68	0.1 U	0.85	9.8	0.68	36	0.82	170
AW0064UB	B-Sand	5/9/2007	Primary	85.7	0.291	NR	NR	NR	1 U	NR	0.741 J	NR	29
AW0064UB	B-Sand	6/20/2007	Primary	67	1.1	0.11	0.1 U	0.99	0.1 U	0.07 U	5.2	0.17	51
AW0065UB	B-Sand	5/10/2007	Primary	426	8.4	NR	NR	NR	1 U	NR	67.6	NR	480
AW0065UB	B-Sand	5/10/2007	Field Duplicate	460	8.63	NR	NR	NR	1 U	NR	68.1	NR	470
AW0065UB	B-Sand	6/21/2007	Primary	340	5.8	0.21	0.1 U	2.3	71	0.38	54	1.4	430
AW0066UB	B-Sand	5/10/2007	Primary	483	13.6	NR	NR	NR	1 U	NR	72.9	NR	530
AW0066UB	B-Sand	6/20/2007	Primary	480	22	0.44	0.1 U	1.2	15	1.2	61	2	710
AW0067UB	B-Sand	5/10/2007	Primary	0.19	0.1 U	NR	NR	NR	0.1 U	NR	0.016 J	NR	11
AW0067UB	B-Sand	6/19/2007	Primary	5.8	0.07 U	0.1 U	0.1 U	0.07 U	0.1 U	0.07 U	0.07 U	0.07 U	5.8
AW0073C	C-Sand	5/10/2007	Primary	58.8	3.28	NR	NR	NR	0.1 U	NR	10.6	NR	59
AW0073C	C-Sand	6/20/2007	Primary	58	2	0.45	0.1 U	1.2	2	0.15	9.9	0.33	150
AW0074UB	B-Sand	5/9/2007	Primary	0.1 U	0.1 U	NR	NR	NR	0.1 U	NR	0.1 U	NR	1.9 B
AW0074UB	B-Sand	6/19/2007	Primary	1.5	0.07 U	0.1 U	0.1 U	0.07 U	0.1 U	0.07 U	0.07 U	0.07 U	3.8
AW0075UB	B-Sand	5/9/2007	Primary	154	0.2	NR	NR	NR	2 U	NR	1.12 J	NR	84
AW0075UB	B-Sand	6/21/2007	Primary	140	1.8	0.42	0.1	1.7	1.6	0.14	1.4	0.54	87
AW0076UB	B-Sand	5/9/2007	Primary	576	6.97	NR	NR	NR	1 U	NR	101	NR	540
AW0076UB	B-Sand	6/21/2007	Primary	450	9.1	0.25	0.1 U	2.1	11	0.86	90	2	630
AW0077UB	B-Sand	5/10/2007	Primary	333	36.1	NR	NR	NR	1 U	NR	74.6	NR	660
AW0077UB	B-Sand	6/20/2007	Primary	770	66	7	0.3	6.5	14	6.9	97	9.7	670
EWB001	B-Sand	5/8/2007	Primary	0.1 U	0.1 U	NR	NR	NR	0.1 U	NR	0.1 U	NR	1.2
EWB001	B-Sand	6/18/2007	Primary	0.13	0.07 U	0.1 U	0.1 U	0.07 U	0.26	0.07 U	0.07 U	0.07 U	1 U
EWB002	B-Sand	6/21/2007	Primary	210	5.2	0.25	0.1 U	0.9	23	0.51	13	0.97	230
EWB002	B-Sand	6/21/2007	Field Duplicate	220	4.8	0.19	0.1 U	0.83	18	0.5	13	0.9	250
TMW_07	B-Sand	5/8/2007	Primary	0.1 U	0.1 U	NR	NR	NR	0.1 U	NR	0.1 U	NR	1.5
TMW_07	B-Sand	6/18/2007	Primary	0.18	0.07 U	0.1 U	0.1 U	0.07 U	0.23	0.07 U	0.07 U	0.19	1 U
WCC_06S	B-Sand	5/8/2007	Primary	7.7	0.1 U	NR	NR	NR	0.1 U	NR	0.1 U	NR	NA
WCC_06S	B-Sand	6/19/2007	Primary	2.2	0.07 U	0.2	0.1 U	0.07 U	0.11	0.07 U	0.07 U	0.07 U	2.5
WCC_12S	B-Sand	5/9/2007	Primary	0.142	0.1 U	NR	NR	NR	0.1 U	NR	0.014 J	NR	2
WCC_12S	B-Sand	6/18/2007	Primary	0.07 U	0.07 U	0.1 U	0.1 U	0.07 U	0.18	0.07 U	0.07 U	0.12	1.9

Notes:
VFA = Volatile Fatty Acids
TOC = Total Organic Carbon
NA = Not analyzed
NR = Not reported. The samples from both the May and June 2007 events were analyzed for the VFAs by Ion Chromatography. However, the analysis for the first round samples was done by Applied Sciences report only the 4 main VFAs. The second round VFA analysis was performed by Microseeps who report additional 5 and 6-carbon acids which are used for sites using vegetable substrates and organic substrates other than lactic acid.
U = Not detected at a concentration greater than the laboratory reporting limit indicated
J = Estimated concentration detected below the laboratory reporting limit

BOE-C6-0187205

Appendix A

Appendix A

WELL INSTALLATION PERMIT

CDM

WATER & SEWAGE / MOUNTAIN & RURAL PROGRAMS - ENVIRONMENTAL HEALTH DIVISION
5050 COMMERCE DRIVE BALDWIN PARK, CA 91706 (626) 430-5380 FAX (626) 813-3016

DATE

X NEW WELL CONSTRUCTION
___ RECONSTRUCTION OR RENOVATION
___ DECOMMISSIONING
___ OTHER: _____

X MONITORING
___ CATHODIC
___ INJECTION
___ EXTRACTION

___ HEAT EXCHANGE
___ Hydropunch
___ C.P.T. For Ground Water Sampling
___ Other: (Specify): _____

SITE ADDRESS: 1451 W. Knox Street	CITY: Los Angeles	ZIP CODE: 90501
Nearest Intersection: Normandie Ave. and W. 190th Street		Thomas Bros. Page / Grid: 763/J3
NO. OF WELLS IN EACH PARCEL: 1	Attach site map with well locations: See attached map	

Total Depth, Size and Depth of Well Casing	See attached workplan
Sanitary / Annular Sealing Material	See attached workplan
Depth of Sanitary / Annular Seal	See attached workplan
Conductor Casing Seal	N/A

Company	CDM
Contact Person	Ravi Subramanian
Address	18581 Teller Ave., Ste.200
City, State Zip Code	Irvine, CA 92612
Telephone	949-752-5452

Well Owner	Boeing Realty Corp.
Address	4501 Conant St. #851
City / Zip Code	Long Beach, CA 90808
Telephone	562-497-6176
Well Driller	Cascade Drilling
Address	555 South Harbor
City / Zip Code	La Habra, CA 90631
C-57 License No.	717510
Telephone	562-929-8176

IF WELL AND GEOLOGIC CONDITIONS ENCOUNTERED IN THE FIELD ARE FOUND TO DIFFER FROM THE SCOPE OF WORK PRESENTED TO THIS OFFICE, WORK PLAN MODIFICATIONS MAY BE REQUIRED.

DISPOSITION OF PERMIT (Department Use Only)
THIS PERMIT IS CONSIDERED COMPLETE WHEN THE WORK PLAN IS APPROVED AND WHEN THE WELL COMPLETION LOG IS RECEIVED. NO WELL CONSTRUCTION OR DECOMMISSIONING CAN BE INITIATED WITHOUT THE WORK PLAN APPROVAL FROM THE DEPARTMENT

Date 5/31/07 R.E.H.S. Michael Lui

Conditions ON 5/29/07 $191 WAS PAID FOR PERMIT # 707985 TO CONSTRUCT ONE MONITORING WELLS SCHEDULED TO BEGIN ON 6/11/07 TILL 6/13/07

Well Depth Log / Records	
Method of Well Assessment	
Depth and Number of Perforations	
Type of Perforator Size of Perforations	
Type and Amount of Sealant	
Method of Upper Seal Pressure Application	

I hereby agree to comply in every respect with all the regulations of the County Environmental Health Division and with all ordinances and laws of the County of Los Angeles and the State of California pertaining to well construction, reconstruction and decommissioning. Upon completion of the well and with in thirty days thereafter, I will furnish the Environmental Health office with a completion log of the well giving date drilled, depth of the well, perforations in the casing, and any other data deemed necessary by County Environmental Health Division.

Ravi Subramanian
Applicant's Signature

Applicant Name: (Print) Ravi Subramanian

Fax Number: 949-752-1307

NOTICE

This well permit approval is limited to compliance with the California well standards and the Los Angeles County Health and Safety Code and does not grant any rights to construct, reconstruct, or decommission any well. Applicant is responsible for securing all other permits necessary to perform the work.

76A588-A
11-33 (Rev. 05/04/06)

TOTAL P.01

WELL PERMIT APPLICATION - NON-PRODUCTION WELLS
WATER & SEWAGE MOUNTAIN & RURAL PROGRAMS - ENVIRONMENTAL HEALTH DIVISION
5050 COMMERCE DRIVE BALDWIN PARK, CA 91706 (626) 430-5380 FAX (626) 813-3016

DATE 05/24/2007

X NEW WELL CONSTRUCTION ___ RECONSTRUCTION OR RENOVATION ___ DECOMMISSIONING ___ OTHER:	X MONITORING ___ CATHODIC ___ INJECTION ___ EXTRACTION ___ HEAT EXCHANGE ___ Hydropunch ___ CPT For Ground Water Sampling ___ Other (Specify)

WELL LOCATION

SITE ADDRESS	CITY	ZIP CODE
1451 W. Knox Street	Los Angeles	90501

Nearest Intersection	Thomas Bros. Page Grid
Normandie Ave. and W. 190th Street	763/J3

NO. OF WELLS IN EACH PARCEL: 1 Attach site map with well location: See attached map

WELL STRUCTURE

Total Depth, Size and Depth of Well Casing	See attached workplan
Sanitary Annular Sealing Material	See attached workplan
Depth of Sanitary Annular Seal	See attached workplan
Conductor Casing Seal	N/A

CONSULTANT

Company	CDM
Contact Person	Ravi Subramanian
Address	18581 Teller Ave., Ste.200
City, State Zip Code	Irvine, CA 92612
Telephone	949-752-5452

OWNER/DRILLER INFORMATION

Well Owner	Boeing Realty Corp.
Address	4501 Conant St. #851
City Zip Code	Long Beach, CA 90808
Telephone	562-497-6176
Well Driller	Cascade Drilling
Address	555 South Harbor
City Zip Code	La Habra, CA 90631
C-57 License No.	717510
Telephone	562-929-8176

IF WELL AND GEOLOGIC CONDITIONS ENCOUNTERED IN THE FIELD ARE FOUND TO DIFFER FROM THE SCOPE OF WORK PRESENTED TO THIS OFFICE, WORK PLAN MODIFICATIONS MAY BE REQUIRED

DISPOSITION OF PERMIT (Department Use Only)
THIS PERMIT IS CONSIDERED COMPLETE WHEN THE WORK PLAN IS APPROVED AND WHEN THE WELL COMPLETION LOG IS RECEIVED. NO WELL CONSTRUCTION OR DECOMMISSIONING CAN BE INITIATED WITHOUT THE WORK PLAN APPROVAL FROM THIS DEPARTMENT

WORK PLAN APPROVAL
This Approval is Valid for 180 Days

Date	R.E.H.S.
Conditions	

WELL DECOMMISSIONING

Well Depth Log Records	
Method of Well Assessment	
Depth and Number of Perforations	
Type of Perforator Size of Perforations	
Type and Amount of Sealant	
Method of Upper Seal Pressure Application	

I hereby agree to comply in every respect with all the regulations of the County Environmental Health Division and with all ordinances and laws of the County of Los Angeles and the State of California pertaining to well construction, reconstruction and decommissioning. Upon completion of the well and within thirty days thereafter, I will furnish the Environmental Health office with a completion log of the well giving date drilled, depth of the well, perforations in the casing, and any other data deemed necessary by County Environmental Health Division.

Ravi Subramanian
Applicant's Signature

Applicant Name (Print) Ravi Subramanian

Fax Number 949-752-1307

NOTICE

This well permit approval is limited to compliance with the California well standards and the Los Angeles County Health and Safety Code and does not grant any rights to construct, reconstruct, or decommission any well. Applicant is responsible for securing all other permits necessary to perform the work.

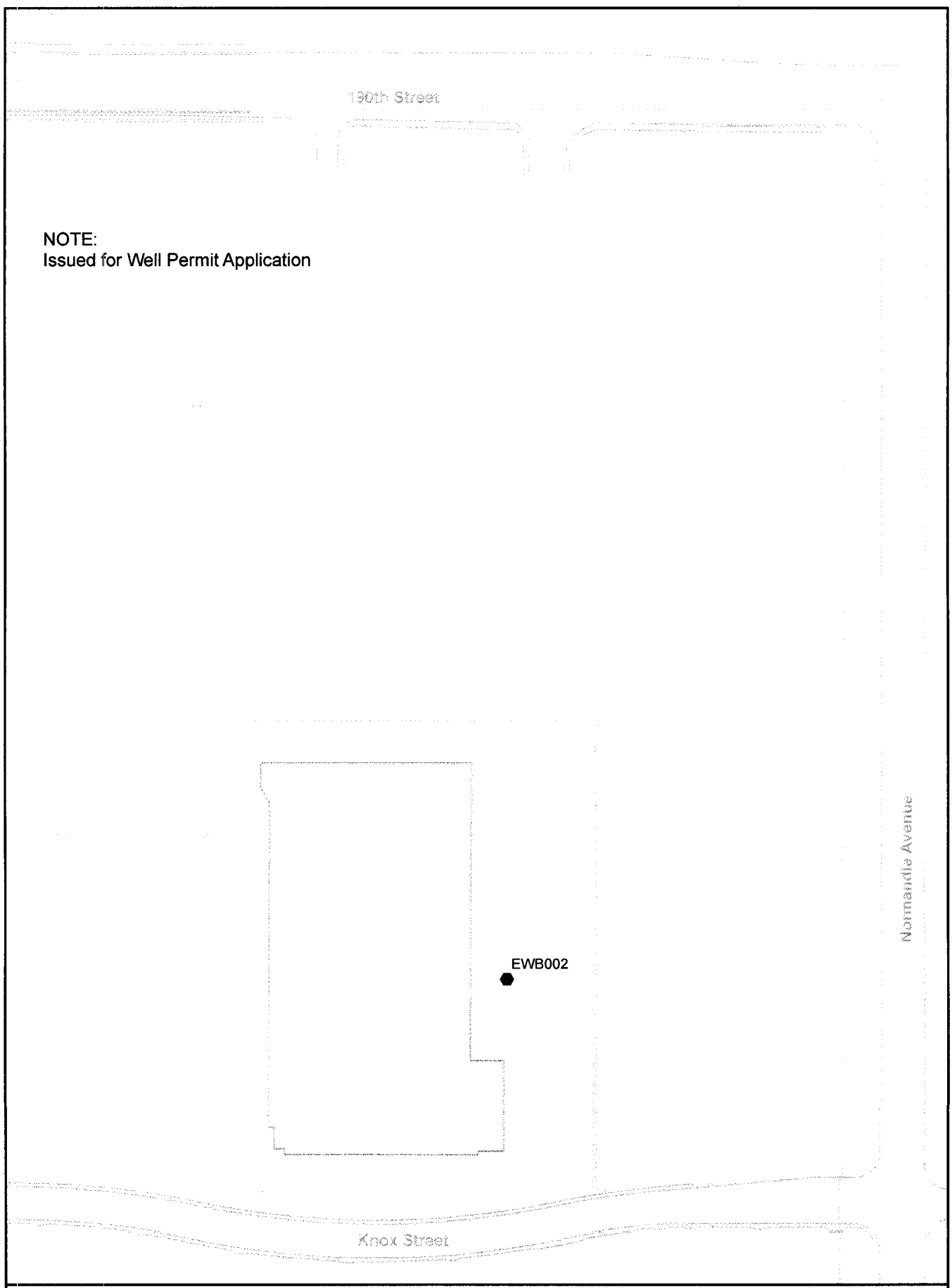
WELL LOCATION (ADDRESS) 1451 W. Knox Street	CITY Los Angeles	ZIP CODE 90501
Anticipated Start Date: 06/11/2007	Anticipated End Date: 06/13/2007	
Additional Contact Persons in Case of Emergency Scott Supernaugh		Telephone 562-572-0811

GENERAL LOCATION SKETCH
Provide site specific information on Well Construction Location Detail Sheet
See Attached Map

Work Plan Details
See Attached Work Plan

WELL DECOMMISSIONING DIAGRAM	

Notes / Comments (Department Use Only)



May 23, 2007

Legend

New Monitoring Well Location

Existing Building

0 50 100 200
Feet

N

Boeing Realty Corporation
Former C-6 Facility

Proposed Monitoring Well Location
Former Building 1/36

CDM

18581 Teller Avenue, Suite 200
Irvine, California 92612
tel: 949 752-5452
fax: 949 752-1307

May 24, 2007

Workplan for Non-Production Well Permit Application
Installation of One Monitoring Well
1451 W. Knox Street
Los Angeles, CA 90501

- Drill one appropriately sized boring using the resonant sonic drilling method to a maximum depth of 90 feet bgs. Prior to drilling, three locations (triangular) around the proposed well location will be hand augered to a depth of 10 feet below ground surface (bgs) for further utility clearance.

- Collect continuous core samples at the anticipated B-Sand Unit interface (55 to 85 feet bgs) to ensure proper placement of the well screen. Geologically log the borings using the soil samples.

- Install a 6-inch, Schedule 80 polyvinyl chloride (PVC) casing, flush jointed threaded and coupled with O-Ring seals, with 30 feet of 6-inch machine slotted PVC screen with slot size of 0.020-inch in the Bellflower B-Sand Unit. A graded filter pack that retains greater than 95 percent on this screen size (i.e. No. 10-20 Colorado silica sand or #3 Monterey sand) will be installed in the annular space to approximately 3-feet above the screen. The vibration of the sonic drill rig will be used prior to setting the bentonite seal to promote settlement of the filter pack. A minimum 3- foot thick plug of coated bentonite pellets will be installed above the filter pack and the pellets will be allowed to hydrate for 45 minutes. After the pellets have been hydrated, a portland cement-bentonite grout will be placed in the remaining annular space to land surface via a tremie pipe. The well will be completed with a locking well cap in a traffic-rated flush-mounted locking box.

- The well locations and wellhead elevations will be surveyed using California State Plane Zone 5 Coordinates, North American Datum of 1983 and North American Vertical Datum of 1988.

- The well will be developed a minimum of 48 to 72 hours following placement of the surface seal to remove drilling fluids and fines from within the screen zone and to increase hydraulic communication with the formation of the water bearing units. Before development, the static groundwater level and the total depth of the casing will be measured in the well.

- Well development will consist of mechanical surging or jetting followed by bailing and pumping of the well. The purpose of this development is to remove drilling fluids and fines from within the aquifer adjacent to the screen zone. Bailing and pumping methods will be used in combination to remove water containing suspended fine-grained material and to induce groundwater flow through the filter pack into the well. Surging/swabbing is planned to be done using a vented surge block following bailing to remove solids. The wells will then be purged using a submersible pump at rates varying between 3 and 15 gallons per minute (gpm). During development, depth to water will be intermittently gauged and water quality parameters including temperature, conductivity, turbidity, and pH will be measured. Development will be deemed completed when turbidity levels are less than 50 NTUs after 1-hour of pumping at constant rate (rate to be determined) and the temperature, conductivity, and pH readings have stabilized (i.e., three consecutive measurements are within ± 10 percent for temperature, ± 3 percent for conductivity, and± 0.1 for pH). If parameters do not stabilize after five wetted volumes, purging will be deemed complete

Table of Proposed Well Completion Information

Well I.D.	Maximum Depth (Ft. bgs)	Approx. Screen Interval (Ft. bgs)	Slot Size (inches)	Well Diameter & Type	Filter Pack [1] (Ft. bgs)	Annular Seal [2] (Ft. bgs)
EWB002	90	60 - 90	0.020	6 inches, Sch 80 PVC	57 -90	0 -57

Notes:

Ft. bgs – Feet below ground surface

1 - The filter pack shall extend 3 feet above the top-of-screen, consist of No. 10-20 Colorado silica sand or #3 Monterey sand, and be sealed with a 3-foot plug of coated bentonite pellets.

2 - Sanitary (annular) seal to consist of 3 feet of coated bentonite pellets with the remainder of the annulus backfilled with Portland cement grout with approximately 4 percent bentonite powder added by weight.

SERVICE APPLICATION REQUEST AND FEE COLLECTION
COUNTY OF LOS ANGELES – DEPARTMENT OF PUBLIC HEALTH
ENVIRONMENTAL HEALTH
SERVICE REQUEST APPLICATION

INSTRUCTIONS

1. Check the TYPE OF SERVICE requested and attach the required non-refundable fee to the application. Make the money order or check payable to LOS ANGELES COUNTY TREASURER, DO NOT SEND CASH. This application is nontransferable.

FEE REQUIRED*		TYPE OF SERVICE
$191	☒	MONITORING WELL CONSTRUCTION/DECOMMISSIONING Please complete and attach a Non-Production Well-Well Permit Application.
	☐	WELL CONSTRUCTION, RENOVATION OR DECOMMISSIONING PERMIT Complete and attach a Well-Well Permit Application
	☐	PRIVATE SEWAGE DISPOSAL SYSTEM CONSTRUCTION PERMIT
	☐	PRIVATE SEWAGE DISPOSAL RENOVATION / EXPANSION
	☐	INSPECTION OF MOUNTAIN CABIN SITE as required by the United States Forest Service
	☐	SEPTIC TANK REPLACEMENT
	☐	INSPECTION OF EXISTING PRIVATE SEWAGE SYSTEM
	☐	WATER SUPPLY TEST AND CERTIFICATION as required by U.S. Department of Agriculture
	☐	WELL YIELD TEST PERMIT
	☐	COASTAL COMMISSION APPROVAL IN CONCEPT

* Refer to Schedule of Fees for the current fiscal year. Field personnel cannot accept fees.

2. Check with the Contact Office stamped below for requirements or information
3. Deliver the completed application, money order or check with the forms indicated to:

County of Los Angeles
Mountain and Rural Program / Water, Sewage, & Subdivision Program
5050 Commerce Drive, Baldwin Park, CA 91706
(626) 430-5380 FAX (626) 813-3016
www.lapublichealth.org/eh/progs/envirp/ehmount.htm

4. Phone Contact Office noted below, after you have received your receipt, to request an inspection.

Service/ Job Location	Address	City	State	Zip	Date
1451 W. Knox Street		Los Angeles	CA	90501	5/24/07

Owner / Applicant Name	Address/Zip	Phone No.
Boeing Realty Corporation	4501 Conant St., Building 851, M/C D851-0097, Long Beach, 90808	(562) 497-6176

Contractor's Name	Address/Zip	Phone No.
CDM	18581 Teller Avenue, Suite 200, Irvine, CA 92612	(949) 752-5452

Co. Engineer Plan Check No. _____ Tract no. _____ Lot No. _____ No. Bedrooms _____ Fixture Unit Count _____
(Complete the line above for Private Sewage Disposal System Construction or Renovation Application)

CONTACT OFFICE	DEPARTMENT STAMP

FEE FOR SERVICES EFFECTIVE AUGUST 24, 2006

$191.00	-	MONITORING WELL CONSTRUCTION/DESTRUCTION (Including cone pentrometer or hydropunch for ground water sampling)
$311.00	-	WELL CONSTRUCTION, RENOVATION OR DESTRUCTION PERMIT (i.e., municipal, domestic, irrigation, industrial, cathodic, ground water injection)
$749.00	-	PRIVATE SEWAGE DISPOSAL SYSTEM CONSTRUCTION PERMIT
$687.00	-	PRIVATE SEWAGE DISPOSAL SYSTEM RENOVATION/EXPANSION
$348.00	-	TANK REPLACEMENT
$61.00 /hr	-	INSPECTION OF MOUNTAIN CABIN SITE
$348.00	-	INSPECTION OF EXISTING PRIVATE SEWAGE SYSTEM
$191.00	-	WATER SUPPLY TEST AND CERTIFICATION
$321.00	-	WELL YIELD TEST PERMIT
$373.00	-	COASTAL COMMISSION APPROVAL IN CONCEPT

As July 1, 1995 no permits will be required for Soil Borings inadvertently going to ground water as long as they are not intended to sample ground water. No permit will be required for Vapor Extraction or Bio Vent Wells not extending into ground water. Since a permit is not required, there will not be any fees due for these projects. Permits are now required from the Health Department for groundwater injection wells.

B

Appendix B

Appendix B

SOIL BORING LOG AND WELL CONSTRUCTION DIAGRAM

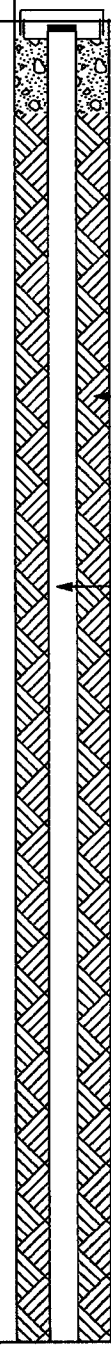
CDM

BORING NUMBER EWB002

CDM

COMPANY	CDM	DATE STARTED	06/11/2007
PROJECT NAME	BRC Former C-6 Facility	DATE COMPLETED	06/13/2007
LOCATION	Torrance, California	X-COORDINATE	
DRILLING METHOD	Sonic	Y-COORDINATE	
SAMPLING DEVICE	Continuous Core	TOTAL DEPTH	96.0
GROUND ELEVATION	N/A	LOCATION DESCRIPTION	
DRILLER NAME	Cascade	DEPTH TO WATER	60.7
LOGGED BY	K. Klepinger	MEASURING POINT ELEVATION	N/A ' (NAVD 88)
REMARKS		APPROVED BY	K. Klepinger, CA P.G. # N/A

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (percent)	EXTENT	PID (ppmv)	U.S.C.S/ Rock Code	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH
					CONCRETE		Top 7 inches is concrete.	
5					CL		CLAY; very dark grayish brown (10YR3/2); 70% clay, stiff, low plasticity; 20% silt; 5% fine- to medium-grained sand, subangular to subrounded; trace coarse-grained sand; trace gravel, angular to subangular, diameter to 1/2 inch; trace mica; dry, no odor.	
10							CLAY; as above except 50% clay; 40% silt.	
							CLAY; as above.	15.0
15					ML		SILT; yellowish red (5YR4/6); 90% silt, soft; 10% fine-grained sand, subangular to subrounded; trace mica; dry to moist, no odor.	
20					MLS		SILT WITH SAND; dark yellowish brown (10YR4/4); 80% silt, soft; 20% fine-grained sand, subangular to subrounded; trace mica; moist, no odor.	20.0
25					CL		CLAY; olive brown (2.5Y4/3); 60% clay, hard, low plasticity; 30% silt; 10% fine-grained sand, subangular to subrounded; trace mica; moist, no odor.	24.0
					MLS		SILT WITH SAND; dark yellowish brown (10YR4/4); 80% silt, soft; 20% fine-grained sand, subangular to subrounded; trace mica; moist, no odor.	27.0
					CL		CLAY; olive brown (2.5Y4/3); 60% clay, hard, low plasticity; 30% silt; 10% fine-grained sand, subangular to subrounded; trace mica; moist, no odor.	28.0
30					MLS		SANDY SILT; dark yellowish brown (10YR4/4); 70% silt, soft, crumbly; 30% fine-grained sand, subangular to subrounded; trace mica; moist, no odor.	30.0
					SM		SILTY SAND; light yellowish brown (2.5Y6/3); 60% fine-grained sand, subangular to subrounded; 40% silt; trace mica; moist, no odor.	32.0



CDM C6-MAS-1.GPJ CH2MHILL.GDT 8/16/07

BORING NUMBER EWB002

CDM

COMPANY	CDM	DATE STARTED	06/11/2007
PROJECT NAME	BRC Former C-6 Facility	DATE COMPLETED	06/13/2007

Continued from Previous Page

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (percent)	EXTENT	PID (ppmv)	U.S.C.S/ Rock Code	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH	WELL DIAGRAM
					SM		SILTY SAND; light yellowish brown (2.5Y6/3); 60% fine-grained sand, subangular to subrounded; 40% silt; trace mica; moist, no odor. SILTY SAND; as above.		
40							SILTY SAND; as above.		Portland Cement with 5% bentonite (2.5 to 50 ft bgs)
45							SILTY SAND; as above.		6" Schedule 80 PVC Blank (0 to 60 ft bgs)
50					MLS		SANDY SILT; light olive brown (2.5Y5/4); 60% silt, soft , crumbly; 40% fine-grained sand, subangular to subrounded; trace mica; moist, no odor.	50.0	Hydrated bentonite chips (50 to 56 ft bgs)
55							SANDY SILT; olive gray (5Y4/2) ; 70% silt, soft , crumbly; 30% fine-grained sand, subangular to subrounded; some mica; moist to damp, no odor.		#3 Monterey Sand (56 to 91 ft bgs)
60					MLS		SILT WITH SAND; light olive brown (2.5Y4/2) with rust-colored mottling; 75% silt, soft; 25% fine-grained sand, subangular to subrounded; some mica; damp to wet, no odor.	▽ 60.0	
65							SILT WITH SAND; as above.		6" Schedule 80 PVC 0.020" slot screen
70					SP-SM		POORLY GRADED SAND WITH SILT; olive gray (5Y4/2) with rust-colored mottling; 90% fine-grained sand, subangular to subrounded; 10% silt; trace mica; damp, no odor	70.0	

BORING NUMBER EWB002

CDM

COMPANY CDM **DATE STARTED** 06/11/2007

PROJECT NAME BRC Former C-6 Facility **DATE COMPLETED** 06/13/2007

Continued from Previous Page

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (percent)	EXTENT	PID (ppmv)	U.S.C.S/ Rock Code	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH	WELL DIAGRAM
					SP-SM		POORLY GRADED SAND WITH SILT; olive gray (5Y4/2) with rust-colored mottling; 90% fine-grained sand, subangular to subrounded; 10% silt; trace mica; damp, no odor POORLY GRADED SAND WITH SILT; as above.	80.0	
80					MLS		SANDY SILT; olive gray (5Y4/2); 60% silt, soft; 40% fine-grained, subangular to subrounded; some mica; wet, no odor. Saturated at 83 to 86 feet bgs.	86.0	#3 Monterey Sand (56 to 91 ft bgs) 6" Schedule 80 PVC 0.020" slot screen
85					SP		POORLY GRADED SAND; olive gray (5Y4/2); 95% fine- to medium-grained sand, mostly fine-grained, subangular to subrounded; 5% silt; trace mica; wet, no odor.	90.0	
90					MLS		SANDY SILT; olive gray (5Y4/2); 60% silt, soft; 40% fine-grained, subangular to subrounded; some mica; wet, no odor.	96.0	Bottom cap Sluff
95							Bottom of borehole at 96.0 feet.		

CALL TOLL FREE 800-227-2600
2 working days before you dig

DIGALERT

Digalert No: A7155|951

LOCATION REQUEST FORM

For faster service, fill out all non-italicized fields prior to calling

Date: 6/4/07 Time: 5:55 PM ***Operator:***
Company Phone: 949-752-5452 Caller: RAVI SUBRAMANIAN
Company Name: CDM
Address: 18581 Teller Ave #200
City: IRVINE State: CA Zip: 92612
Fax: 949-752-1307 E-mail: SUBRAMANIANR@CDM.COM
Best times to reach your company: 8:00AM - 5:00PM
Foreman: KELLY KLEPINGER Alternate Phone #: 714-~~308-2945~~ 745-4786
Delineated: [X] Yes [ ] No
County: LOS ANGELES City: TORRANCE/LOS ANGELES
If more than 1 address or descriptive location: INSIDE FACILITY

Address: 1451 ~~[illegible]~~ KNOX STREET Street:
Closest X/ST: 190th & NORMANDIE AVE
Thomas Guide page & grid: 763/J3
Latitude: Longitude:
Boring: [X] Yes [ ] No Explosives: [ ] Yes [X] No Vacuum: [ ] Yes [X] No
If vacuum yes:
Vacuum contact:
Vacuum Phone #: Ext:
Vacuum E-mail:
Type of work: WELL INSTALLATION
Work to begin: Date: 6/11/07 Time: 7:00 AM
Instructions: [ ] Mark By [ ] Meet and Mark [ ] Validate Permit Only [X] Now
Work being done for: BOEING REALTY CORPORATION
Permit #: 707985 [ ] Not Required [ ] Not Available [ ] Blanket
Members being notified by USA: Chevron, City of LA, Ca Water Service DWP, MCI, MWD, SBC, SoCalgas Trans, distribution UTI (Edison) shell oil pipeline, XO Communication
Update on/or before date: 7/2/07

Rev 6.4 **Underground Service Alert of Southern California**

MCI
7000 Weston Parkway
Cary, North Carolina 27513

SCADE DRILLING
UNK

Attention: KELLY

MCI facilities are not in conflict with the scope of work identified. If there are changes to the scope of work identified in the field, please contact the local MCI field technician or MCI's National Fiber Security at 1-800-840-0338

State	Ticket#
CA	A71551951

For further questions call MCI at 1-800-840-0338

Fax Transmission Complete

DAILY FIELD SUMMARY

GEOVision
geophysical services

Date: 6-6-07

Job No.

Sheet:

Client: CDM

Location: 451 Knox Ave
Torrance CA

Description		Hours
	Clear boring EWB002	
	for all detectable utilities	
	Total:	

GV Personnel: Diane Ortiz

GV Field Supervisor: [signature] Date: 6-6-07

Client Approval: Date:

1151 Pomona Road, Unit P. Corona, California 92882. Telephone: (951) 549-1234 Fax:(951) 549-1236
19205 Parthenia Street, Unit D. Northridge, California 91324. Telephone: (818) ~~734-6609~~
www.geovision.com

MRICHES@GEOVISION.com

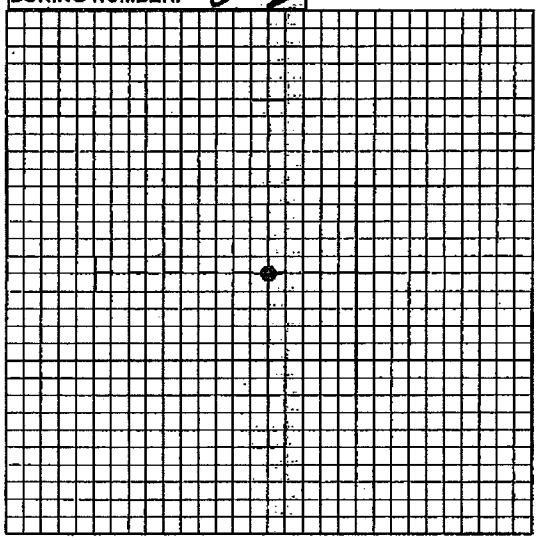
GEOVision
geophysical services

Job Number: _____ Date: 6-6-07

Client: COM Page No. _____

Site Address: 4151 Knox Ave
Torrance

EWB
BORING NUMBER: 002



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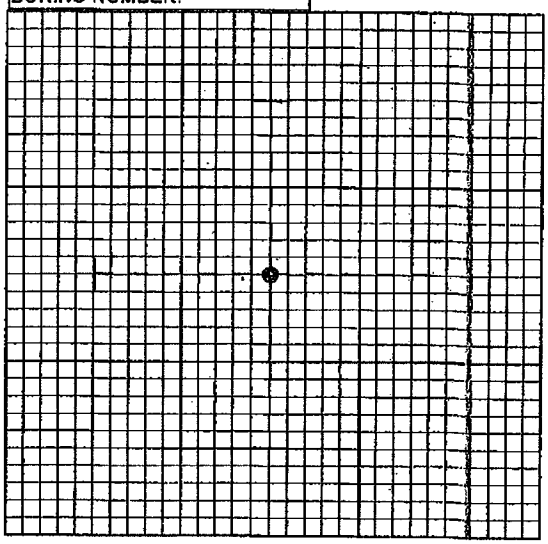

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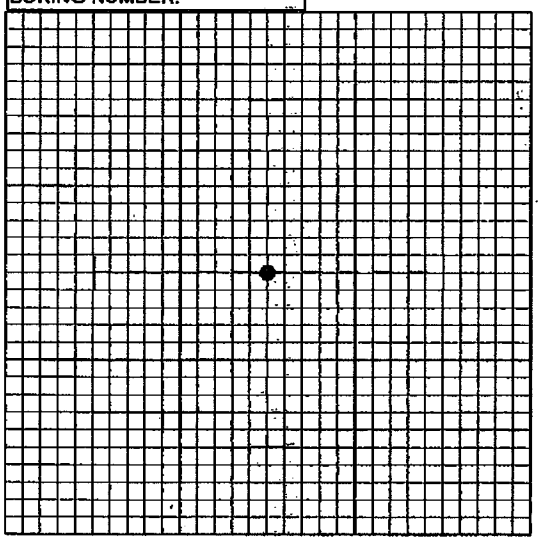

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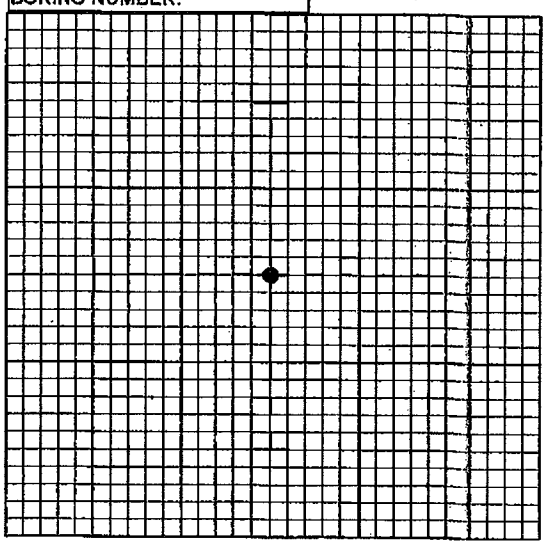


LEGEND

Proposed Boring Location

1328 GPR Traverse with File Number

NG Utility: E= Electrical, T= Telepone, NG = Natural Gas, SS = Sanitary Sewer
SD = Storm Drain, W = Water, C = Unknown Line

0 (Feet) 10

N

NOTE: All geophysical methods have limitations dependent on: instrumentation used, soil conditions, local cultural noise, and other interference. The geophysical conditions interpretation presented above comprises a declaration of the geophysicist's professional judgement using methods and a degree of care and skill ordinarily exercised, under similar circumstances, by reputable members of their profession practicing in the same or similar locality. It does not constitute a warranty or guarantee, expressed or implied, nor does it relieve any other party of its responsibility to abide by contractual documents, applicable codes, standards, regulations, or ordinances. If further information is required about the limitations of the instruments and/or methods used on this project please contact GEOVision Geophysical Services.

1151 Pomona Road, Unit P. Corona, California 92882. Telephone: (951) 549-1234. Fax: (951) 549-1236
19205 Parthenia Street, Unit D. Northridge, California 91324. Telephone: (818) 734-6609
www.geovision.com

Boring/ Well No.: EW BOUZ		Site/Location: 1451 Knox Street Torrance, CA 90501	
Client: Boeing		Project No.: 5000-55353	Page 1 of 3
Drill Contractor: Cascade		Drill Method: Sonic	Elevation:
Date Started: 6/11/07		Sampling Method:	
Date Ended:		Total Depth:	Remarks:
On-site Geologist: Kelly Klepinger		Depth to Water:	

Depth (feet)	Blows	Sample Name	Sample Time	PID FID (ppm)	USCS	Description	Well Construction Detail
						Top 7" is concrete	
					CL	(5') ~~SILTY~~ CLAY, (10YR 3/2); 70% clay, stiff, low plastic, 20% silt, 5 fg/mg sand, sa to sr, trace cg sand, trace gravel, sa to sa, ø to 1/2", trace mica, dry, no odor.	
5					CL	(10') clay; as above except 50% clay; 40% silt	
					CL	(15') CLAY; as above	
10					ML	(15'-20') SILT; yellowish red (5YR 4/6); 90% silt, soft; 10% fg sand, sa to sr; trace mica, dry to moist, no odor.	
					ML	(20'-24') SILT WITH SAND; dark yellowish brown (10YR 4/4); 80% silt; 20% fg sand, sa to sr, trace mica; moist, no odor.	
15				0.0/0.0			
					CL	(24-27) CLAY; olive brown (2.5Y 4/3); 60% clay, hard, low plastic; 30% silt; 10% fg sand, sa to sr; trace mica; moist, no odor.	
20				0.0/0.0	ML	(27-28') SILT; same as (20'-24')	
					CL	(28'-30') CLAY; same as (24'-27').	
				0.0/0.0	MLS	30'-32' SANDY SILT; (10YR 4/4); 70% silt, soft, crumbly; 30% fg sand, trace mica sand sa to sr; moist, no odor	
25					SM	(32'-35') SILTY SAND; light yellowish brown (2.5Y 6/3); 60% fg sand, sa to sr; 40% silt, trace mica, moist, no odor.	
					SM	(35-45') SILTY SAND; as above	
30				0.0/0.0			

CDM

BORING LOG AND SAMPLING RECORD

← 8 5/8" →

Boring/ Well No.: EWB002	Site/Location: 1451 Knox St		
Client: Boeing	Project No.: 5000-55353		Page 2 of 3
Drill Contractor: Cascade	Drill Method: Sonic		Elevation:
Date Started: 6/11/07	Sampling Method:		
Date Ended:	Total Depth: 96'	Remarks:	
On-site Geologist: Kelly Klepinger	Depth to Water:		

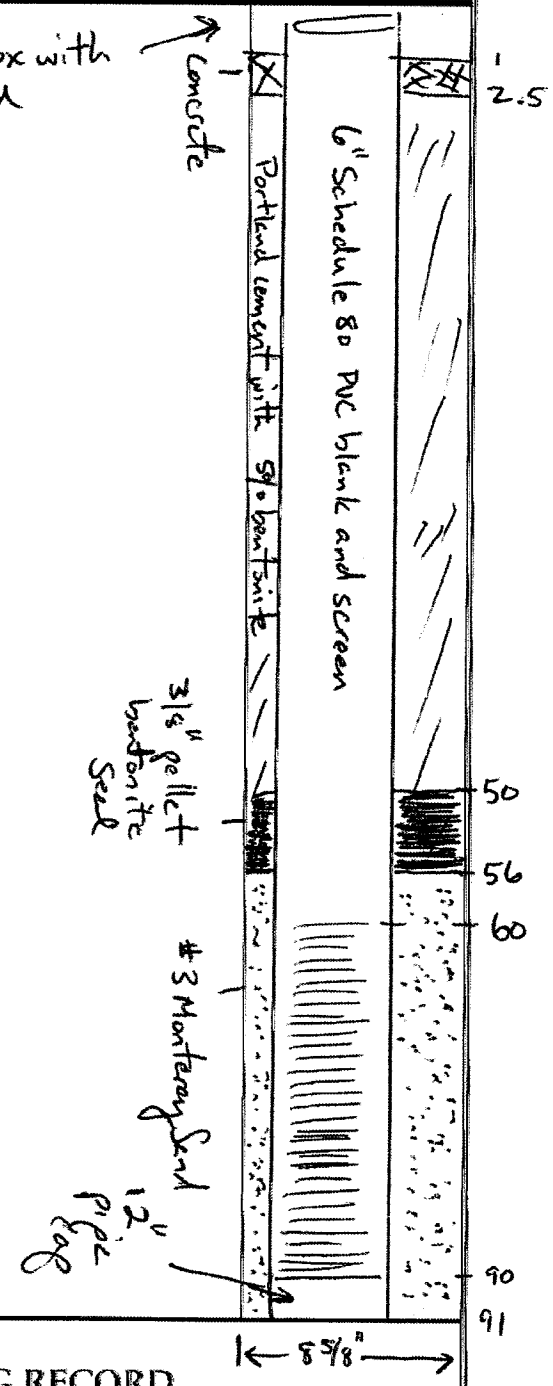
Depth (feet)	Blows	Sample Name	Sample Time	PID FID (ppm)	USCS	Description	Well Construction Detail
					SM	(45'-50') SILTY SAND; as above except high olive brown (2.5Y5/4).	
					MLS	(50-57) SANDY SILT; (2.5Y5/4); 60% silt, soft, crumbly; 40% fg sand, sa to sr; trace mica; moist, no odor.	
35				0.0/0.0			
					MLS	(57-60') SANDY SILT; 70% silt, soft; olive gray (2.5Y4/2); 30% fg sand, sa to sr; some mica; moist to damp, no odor.	
40		0.0/0.0		0.0/0.0	ML	(60-70') SILT WITH SAND; (2.5Y4/2); 75% silt, soft; 25% fg sand, sa to sr; some mica; damp to wet, no odor. Rust-colored mottling.	
45				0.0/0.0	SP	(70'-76') POORLY GRADED SAND WITH SILT; (5Y4/2); 90% fg sand, sa to sr, 10% silt; mottling; trace mica; damp, no odor.	
						76-80 Same as above. mottling	
					MLS	80'-86' SANDY SILT; (5Y4/2); 60% silt, soft, 40% fg sand, sa to sr, some mica; wet, no odor. Saturated 83'-86'.	
50							
					SP	(86'-90') POORLY GRADED SAND, (5Y4/2) 95% fg to mg sand, mostly fg, sa to sr; 5% silt; trace mica, wet, no odor.	
55		2.0/0.0			MLS	90-96 SANDY SILT; same as 80'-86'	
						TD = 91' bgs	
60		2.0/0.0					

CDM

BORING LOG AND SAMPLING RECORD

Boring/ Well No.: EW B002	Site/Location: 1451 Knox Street		
Client: Boeing	Project No.: 5000-55353		Page 3 of 3
Drill Contractor: Cascade	Drill Method: Sonic		Elevation:
Date Started: 6/11/07	Sampling Method:		
Date Ended: 6/13/07	Total Depth: 96'	Remarks:	
On-site Geologist: Kelly Kleginger	Depth to Water: 60.70'		

Depth (feet)	Blows	Sample Name	Sample Time	PID FID (ppm)	USCS	Description	Well Construction Detail
65							
70		30/0.0					
75		85/0.0					
80							
85		200/0.0					
90		17/0.0					



CDM

BORING LOG AND SAMPLING RECORD

CDM

Project Name: B136 Pilot Biorecirculation Study
Project Number: 5000-55353
Owner: Boeing Realty Corporation
Project Manager: Ravi Subramanian

Daily Report

EW3-002	Daily Job Report # 1	Work Day #	1
	Day of Week 6/11/07 Monday	Weather	Cloudy
CDM Representative: Kelly Kleppinger	Temp @ 8:00 am 60's	Temp @ 2:00 pm	
Signature: Kelly H Kleppinger	High Temp.	Low Temp.	

Visitors (include time)	
Notes	7:00-7:30 H&S meeting with Crew, Curtis, Scott S., Dennis Carlson 7:30 Set up on site 930 ~~Core~~ Saw cut concrete 3'x3' box 1100 Laydown plastic RB concrete offsite @ 1110. 1130 Cleaning hole hand auger EW3002. 1300 Hole cleared. Begin drilling 1500 Stop drilling Reached 45 feet bgs 1515 Clean up area, move drums etc. 1540 Kelly R and Cascade offsite

Concrete cover supposed to be onsite @ 6:30. Not onsite until 920

R.B. Concrete (don't use again)

No. of Workers	Postion (trade)	Hours	Extent of Work complete description of days activity
3	Drillers & Helpers		
1	Concrete Cover		

Verbal Directives	
Changes from Specification	
Extra work	

BOE-C6-0187228

CDM

Project Name: B136 Pilot Biorecirculation Study
Project Number: 5000-55353
Owner: Boeing Realty Corporation
Project Manager: Ravi Subramanian

Daily Report

EWB002	Daily Job Report # 2	Work Day # 2	
	Day of Week 6/12/07	Weather	
CDM Representative: Kelly Klepinger	Temp @ 8:00 am 70's	Temp @ 2:00 pm	
Signature: Kelly Klepinger	High Temp.	Low Temp.	

Visitors (include time)	Dennis Carlson - 1200
Notes	12" Pipe cap 6:30 H&S Meeting. Prep for drilling. 7:15 Begin drilling @ 45 feet bgs. Using water the rest of the way. 1200 Dennis Carlson onsite. @ 90', called Ravi. Looking for confining layer. Going to 94' bgs 1320 Install casing 0.020" Schedule 80 60'-90' bgs Blank 0'-60' 1350 Install #3 Monterey Sand. 1450 Tape stuck in borehole @ end of casing 1455 Stop for the day, tape still stuck. Will use 3/4 PVC tremmie pipe ~~to~~ try and get out tomorrow. Also. need it ~~eth~~ to tremmie grout tomorrow. Call Ravi 1505 Got tape unstuck. Will finish sanding and set seal grout tomorrow. 1535 Tagged sand @ 56' 70 bags sand 1537 Put down 3/8" pellet bentonite 1547 Tagged seal @ 53' bgs add 1/2 bucket seal 1557 Tagged seal @ 50' 1605 Secure site 1615 SVE trailer was damaged trying to get off truck. Wood floor cracked, causing it to tip over. Took picaterus. Called Ravi. Also corner of trailer damaged, broken piece of PVC

No. of Workers	Postion (trade)	Hours	Extent of Work complete description of days activity

Verbal Directives	
Changes from Specification	
Extra work	

SAFETY FIRST
CASCADE DRILLING, INC.
CALIFORNIA

L.A.: 555 S. Harbor Blvd. La Habra, CA 90631 (562) 929-8176 PH (562) 863-9534 FAX
Seattle: PO Box 1184 Woodinville, WA 98072 (425) 485-8908 PH (425) 485-4368 FAX
Portland: 15635 SE 114th Clackamas, OR 97015 (503) 775-4118 PH (503) 775-4099 FAX
Sacramento: 3632 Omec Cir. Rancho Cordova, CA 95742 (916) 638-1169 PH (916) 638-5611 FAX

CLIENT: C D M
CLIENT P.O. #:
JOB LOCATION: 1451 KNOX ST TORRANCE
CDI PROJECT MANAGER:
DIG ALERT#:
DATE: 6/11/07
CASCADE PROJECT#: L07262
DAY: Monday

WELL# BORING#	DEPTH DRILLED	DESCRIPTION OF WORK	HOURS START	HOURS STOP	HOURS TOTAL
		A.M. SHOP TIME	5:00	5:30	
		TRAVEL TO SITE	5:30	6:30	
EWB002		safety meeting Scop of work	6:30	7:30	
		Fill up water Truck set up	7:30	8:30	
		Unload Trucks EWB002	8:30	9:00	
		Waited For concrete coring (CUT) 3X3	9:00	11:00	
		Hand Auger 1"X7' Very HARD	11:00	12:30	
		Core 7 TO 45' with 6"	12:30	2:45	
		Set 9 5/8 TO 30'	2:45	3:00	
		moved Drums clean up	3:00	3:30	
		Mob back TO Shop	3:30	4:30	
		NO Lunch			
TOTAL FOOTAGE 6" 9 5/8	45 30'	TOTAL CHARGEABLE RIG HOURS			
		TRAVEL TO SHOP			
		P.M. SHOP TIME			

EQUIPMENT

RIG #	N142	COMPRESSOR/JACK HAMMER	
FLATBED TRUCK #	N572	FORKLIFT / HOPPER	
FLATBED TRUCK #	N416	CONT. SAMPLER FOOTAGE	
TRAILER #		# OF HYDRO PUNCHES	
# OF SAW CUTS		TIPS/SCREENS	
# OF CORE CUTS		SNOW FENCE RENTAL	
# OF BULL DOG			
BOBCAT			
CREW WITH PERDIEM		DEPTH TO WATER	

NAME	INITIALS	HOURS	
Valentin		11.0	4.5
Felipe		11.0	4.5
Marcus		11.0	4.5

CASING

DIAMETER	2"	4"
20 FT. SCREEN		
10 FT. SCREEN		
5 FT. SCREEN		
20 FT. BLANK		
10 FT. BLANK		
5 FT. BLANK		
SLIP CAP		
THREADED CAP		
LOCKING CAPS		
SPARGE TIP		

MATERIALS

ITEM	QTY.	ITEM	QTY.
SAND		WELL COVER	
READY MIX		COP WELL COVER	
QUICK SET		BARRELS	
PORTLAND		AUGER PLUGS	
BENTONITE GROUT		SAMPLE LINERS	
BENTONITE CHIPS		HOLE COVER PLATES	
BENTONITE POWDER		CONES/DELINEATORS	
BENTONITE PELLETS		TRAFFIC CONTROL	
COATED PELLETS		PLASTIC SHEETING	
BENTONITE GRANULAR		CME TEETH	
ASPHALT PATCH		WOODEN FRAMES	
KENAMETAL TEETH		CORE BOXES	
SAMPLER SHOE		MONUMENT CASING	
BIT REPAIR		ENCOR SAMPLING	
		BALLARD POST	

REMARKS Safety check mob to site. Safety meeting. Set up waited For RB to cut location (9 to 11:00) Hand Auger. Core to 45' set 9 5/8 to 30' clean up moved Drums.

Kelly H. Kl[illegible] — CLIENT SIGNATURE
APPROVED BY: S. MAGERS
[illegible] — OPERATOR SIGNATURE
6-11-07

SAFETY FIRST
CASCADE DRILLING, INC.
CALIFORNIA

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Sacramento: 3632 Omec Cir. Rancho Cordova, CA 95742 (916) 638-1169 PH (916) 638-5611 FAX

CLIENT: CDM
CLIENT P.O. #:
JOB LOCATION: 1451 Knox ST Torrance
CDI PROJECT MANAGER:
DIG ALERT#:
DATE: 6/12/07
CASCADE PROJECT#: L07262
DAY: Tusday

WELL# BORING#	DEPTH DRILLED	DESCRIPTION OF WORK	HOURS START	HOURS STOP	HOURS TOTAL
		A.M. SHOP TIME	5:00	5:30	
		TRAVEL TO SITE	6:30	6:30	
W Boo2		Safety check Safety meeting	6:30	7:00	
		Set up EW Boo2	7:00	7:30	
		Core 45 to 90' HARD Drilling	7:30	10:30	
		Wash 9 5/8 30 to 88'	10:30	11:45	
		close Drums moved to staging Area	11:45	12:15	
		core 90 to 96' (Ree Enter 90 to 96)	12:15	1:00	
		Set well materials to set well 6"	1:00	1:30	
		Seting 6" well at 90'	1:30	2:30	
		Fishing out Broken tag line	2:30	3:00	
		Set 6" well - Sand and Pellets	3:00	4:00	
		clean up	4:00	4:30	
		mob back to shop	4:30	5:30	
		Felipe loading up pipe and materials	5:30	6:30	
TOTAL FOOTAGE 6"	55'	TOTAL CHARGEABLE RIG HOURS			
9 5/8	60				

TRAVEL TO SHOP
P.M. SHOP TIME

Ea bag = 50 lbs or 1/2 CF

EQUIPMENT

RIG #	N142	COMPRESSOR/JACK HAMMER	
FLATBED TRUCK #	N572	FORKLIFT / HOPPER	
FLATBED TRUCK #	N416	CONT. SAMPLER FOOTAGE	55'
TRAILER #		# OF HYDRO PUNCHES	
# OF SAW CUTS		TIPS/SCREENS	
# OF CORE CUTS		SNOW FENCE RENTAL	10
# OF BULL DOG			
BOBCAT			
CREW WITH PERDIEM		DEPTH TO WATER	55'

NAME	INITIALS	HOURS
Valentin		12
Felipe		12
marcos		13

CASING

DIAMETER	2"	4"	6"
20 FT. SCREEN			
10 FT. SCREEN			3
5 FT. SCREEN			
20 FT. BLANK			
10 FT. BLANK			6
5 FT. BLANK			1
SLIP CAP			
THREADED CAP			1
LOCKING CAPS			
SPARGE TIP			

MATERIALS

ITEM	QTY.	ITEM	QTY.
SAND #3	20	WELL COVER	
READY MIX		COP WELL COVER	
QUICK SET		BARRELS	
PORTLAND		AUGER PLUGS	
BENTONITE GROUT		SAMPLE LINERS	
BENTONITE CHIPS		HOLE COVER PLATES	
BENTONITE POWDER		CONES/DELINEATORS	6
BENTONITE PELLETS		TRAFFIC CONTROL	
COATED PELLETS	2	PLASTIC SHEETING	1
BENTONITE GRANULAR		CME TEETH	
ASPHALT PATCH		WOODEN FRAMES	
KENAMETAL TEETH		CORE BOXES	
SAMPLER SHOE		MONUMENT CASING	
BIT REPAIR		ENCOR SAMPLING	
		BALLARD POST	

ea = 1/2 cu ft

REMARKS mob to site Safety meeting set up. core 45 to 96' wash 9 5/8 30 to 90' set 6" well at 90' clean up mob back to shop.

APPROVED BY: S. MAGERS

CLIENT SIGNATURE

OPERATOR SIGNATURE

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Sacramento: 3632 Omec Cir. Rancho Cordova, CA 95742 (916) 638-1169 PH (916) 638-5611 FAX

CLIENT:	CDM	CLIENT P.O. #:	
JOB LOCATION:	1451 Knox ST Torrance	CDI PROJECT MANAGER:	
DIG ALERT#:		DATE:	6/13/07
CASCADE PROJECT#:	L07262	DAY:	Wends

WELL# BORING#	DEPTH DRILLED	DESCRIPTION OF WORK	HOURS START	HOURS STOP	HOURS TOTAL
		A.M. SHOP TIME	5:00	5:30	
		TRAVEL TO SITE	5:30	6:15	
		Safety check Equip Fill up	6:15	6:45	
		Set up to grout EW B002	6:45	7:30	
		Grout Pull out 9 7/8	7:30	8:45	
		Clean up site	8:45	9:45	
		Set well box 3X3X 9"	9:45	10:45	
		Load up clean up	10:45	12:00	
		mob back to Shop	12:00	1:00	
		Decon Rig and casing	1:00	1:30	
TOTAL FOOTAGE		TOTAL CHARGEABLE RIG HOURS		TRAVEL TO SHOP	
				P.M. SHOP TIME	

EQUIPMENT

RIG #	U142	COMPRESSOR/JACK HAMMER	
FLATBED TRUCK #	U572	FORKLIFT / HOPPER	1
FLATBED TRUCK #	U416	CONT. SAMPLER FOOTAGE	
TRAILER #		# OF HYDRO PUNCHES	
# OF SAW CUTS		TIPS/SCREENS	
# OF CORE CUTS		SNOW FENCE RENTAL	10
# OF BULL DOG			
BOBCAT			
CREW WITH PERDIEM		DEPTH TO WATER	

NAME	INITIALS	HOURS
Valentin		8.0
Felipe		8.0
Marcos		8.0

APPROVED BY: S. MAGERS

CASING

DIAMETER	2"	4"	6"
20 FT. SCREEN			
10 FT. SCREEN			
5 FT. SCREEN			
20 FT. BLANK			
10 FT. BLANK			
5 FT. BLANK			
SLIP CAP			
THREADED CAP			
LOCKING CAPS			1
SPARGE TIP			

MATERIALS

ITEM	QTY.	ITEM	QTY.
SAND		WELL COVER 12"	1
READY MIX 60 lbs	6	COP WELL COVER	
QUICK SET 50 lbs	6	BARRELS	15
PORTLAND 50 lbs	20	AUGER PLUGS	
BENTONITE GROUT		SAMPLE LINERS	
BENTONITE CHIPS		HOLE COVER PLATES	
BENTONITE POWDER	1	CONES/DELINEATORS	8
BENTONITE PELLETS		TRAFFIC CONTROL	
COATED PELLETS		PLASTIC SHEETING	1
BENTONITE GRANULAR		CME TEETH	
ASPHALT PATCH		WOODEN FRAMES	
KENAMETAL TEETH		CORE BOXES	
SAMPLER SHOE		MONUMENT CASING	
BIT REPAIR		ENCOR SAMPLING	
Rebar	6	BALLARD POST	

REMARKS mob to Site. Safety check Set up. Grout Pull out clean up Set well box load up mob back to Shop.

CLIENT SIGNATURE

OPERATOR SIGNATURE 6-13-07

CDM

Health and Safety

CDM Constructors Inc.	Rev: 01/ 10/14/2006
SUBJECT: Safety Meeting Sign-In Sheet	Effective: 10/01/2006

Presenter: Scott Supernaugh

Date: 6/11/07

Job Number: 5000-55353

Location: **Former C-6 Facility, Building 1/36 Pilot Test System Construction, Los Angeles, CA**

Employee Name:	Employee Signature:
Kelly Klepinger	Kelly H. Klepinger
Felipe Mendez	[illegible]
Marcos V Rodriguez	[illegible]
Valentin Godoy	[illegible]
Luis Ayuso	[illegible]
William Sanc	[illegible]
Tony Seibert	[illegible]
Scott Supernaugh	[illegible]
Curtis Wilson	Curtis Wilson
Ismael Espinoza	[illegible] CD 6/11/07
Keith Ridgeway	[illegible]

CDM

Health and Safety

CDM Constructors Inc.	Rev: 01/ 10/14/2006
SUBJECT: Safety Meeting Sign-In Sheet	Effective: 10/01/2006

Presenter: Kelly Klepinger

Date: 6/12/07

Job Number: 5000-55353

Location: Former C-6 Facility, Building 1/36 Pilot Test System Construction, Los Angeles, CA

Employee Name:	Employee Signature:
Kelly Klepinger	Kelly H. Klepinger
Luis Ayuso	[illegible]
Jon Seibert	[illegible]
Valentin Godoy	[illegible]
Felipe Mendez	[illegible]
Marcos V Rodriguez	[illegible]

CDM

Health and Safety

CDM Constructors Inc.	Rev: 01/ 10/14/2006
SUBJECT: Safety Meeting Sign-In Sheet	Effective: 10/01/2006

Presenter: Kelly Kleginger

Date: 6-15-07

Job Number: 5000-55353

Location: Former C-6 Facility, Building 1/36 Pilot Test System Construction, Los Angeles, CA

Employee Name:	Employee Signature:
Kelly Kleginger	Kelly H. Klegi
Mike Miller	[illegible]

Appendix C

Appendix C

WELL DEVELOPMENT FORM

CDM

CDM

Project Name: B136 Pilot Biorecirculation Study
Project Number: 5000-55353
Owner: Boeing Realty Corporation
Project Manager: Ravi Subramanian

Daily Report

EWB-002 Development	Daily Job Report # 33	Work Day # 3	
	Day of Week 6/15/07 F	Weather Partly Cloudy	
CDM Representative: Kelly Kleginger	Temp @ 8:00 am 70	Temp @ 2:00 pm	
Signature: Kelly H. Kleginger	High Temp.	Low Temp.	

Visitors (include time)

Notes

730 H&S Meeting 7:00-7:30 Set up.
745 WL = 60.70' TOC TD was 88.2' TOC bailing to get rid of sediments TD should be ~91' TOC
758 Bailed ~22 gallons Set up for swabbing
915 Collect soil disposal sample.
830 Swabbed for ~20 across screened area
840 bailing again
952 Finish pumping Final Turbidity = 14 NTUs
Total water generated = 330 gallons

Drum Tally - 21 drums total

6 drums development H_2O
7 drums soil cuttings
8 drums drilling H_2O

915 Disposal - Soil - 061507
925 ~~Develop~~ Disposal - water - 061507
1030 Drilling - water - 061507

Nicholas Marks

No. of Workers	Postion (trade)	Hours	Extent of Work complete description of days activity
1	Developer		Develop EWB002 by surging, bailing, pumping
	Mike Miller		
	Cascade		

Verbal Directives

Changes from Specification

Extra work

BOE-C6-0187238

SAFETY FIRST
CASCADE DRILLING, INC.
CALIFORNIA

L.A.: 555 S. Harbor Blvd. La Habra, CA 90631 (562) 929-8176 PH (562) 863-9534 FAX
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Sacramento: 3632 Omec Cir. Rancho Cordova, CA 95742 (916) 638-1169 PH (916) 638-5611 FAX

CLIENT: CDM, KELLY KLEPINGER, BOEING FACIL.
CLIENT P.O. #: 5000-55353-T2A2
JOB LOCATION: 1451 KNOX ST. TORRANCE
CDI PROJECT MANAGER:
DIG ALERT#: N/A
DATE: 6/15/07
CASCADE PROJECT#: L07262.02
DAY: FRI

WELL# BORING#	DEPTH DRILLED	DESCRIPTION OF WORK	HOURS START	HOURS STOP	HOURS TOTAL
		A.M. SHOP TIME	500	530	.5
		TRAVEL TO SITE	530	700	1.5
		AHS	700	715	.25
		SURGE & BAIL & PUMP TO <50 NTU	715		
		1-6" x 90' GWMW, LOADUP, MOVE DRUMS		1030	3.25
		WATER @ 61.5', TD 89.5'			
TOTAL FOOTAGE		TOTAL CHARGEABLE RIG HOURS			
		TRAVEL TO SHOP	1030	1130	1.0
		P.M. SHOP TIME	1130	1145	.25

EQUIPMENT

RIG #	105	COMPRESSOR/JACK HAMMER	
FLATBED TRUCK #	X	FORKLIFT / HOPPER	
FLATBED TRUCK #	X	CONT. SAMPLER FOOTAGE	
TRAILER #	215	# OF HYDRO PUNCHES	
# OF SAW CUTS		TIPS/SCREENS	
# OF CORE CUTS		SNOW FENCE RENTAL	
# OF BULL DOG			
BOBCAT			
CREW WITH PERDIEM		DEPTH TO WATER	

CASING

DIAMETER	2"	4"
20 FT. SCREEN		
10 FT. SCREEN		
5 FT. SCREEN		
20 FT. BLANK		
10 FT. BLANK		
5 FT. BLANK		
SLIP CAP		
THREADED CAP		
LOCKING CAPS		
SPARGE TIP		

MATERIALS

ITEM	QTY.	ITEM	QTY.
SAND		WELL COVER	X
READY MIX		COP WELL COVER	X
QUICK SET		BARRELS	6
PORTLAND		AUGER PLUGS	
BENTONITE GROUT		SAMPLE LINERS	
BENTONITE CHIPS		HOLE COVER PLATES	
BENTONITE POWDER		CONES/DELINEATORS	
BENTONITE PELLETS		TRAFFIC CONTROL	
COATED PELLETS		PLASTIC SHEETING	
BENTONITE GRANULAR		CME TEETH	
ASPHALT PATCH		WOODEN FRAMES	
KENAMETAL TEETH		CORE BOXES	
SAMPLER SHOE		MONUMENT CASING	
BIT REPAIR		ENCOR SAMPLING	
		BALLARD POST	

NAME	INITIALS	HOURS		
M. Miller		6.75		
			DEAN	

REMARKS

Kelly H. Klepinger
CLIENT SIGNATURE

Michael F. [illegible]
OPERATOR SIGNATURE

Well No.: EWB002	Site/Location: 1451 Knox St.	
Client: Boeing	Contractor: Cascade	Page 1 of 1
Date Started: 6/15/07	Time Started: 7:30	Development Rig: (Y / N)
Date Ended: 6/15/07	Time Ended:	Casing Diameter: 6"
Equipment:	Pre-devel. Static Water Level (feet BTOC): 60.70' TOC	
Development Method: bail, swab, pump	Average discharge rate (gpm): 5	
Maximum Drawdown During Pumping:	Total Quantity Bailed (gallons): 90	
~~10.55~~ feet at ~~[illegible]~~ gpm	Total Quantity Pumped (gallons):	
~~[illegible]~~ 10.25@ 4gpm	Developed By: Kelly K & Mike Miller (Cascade	

Total Depth of Well (feet): 91 2" - 0.16

Depth to Water (feet): 60.7 (X) 4" - 0.65 = 44.5 One (1) Casing Volume

Water Column Height (feet): 30.3 (6" - 1.47) 5 C.V. = 223 gallons

Time	Gallons	Temp. (°C / °F)	pH	Conductivity ~~(µmhos/cm)~~ µS	Turbidity (NTUs)	Water Level (ft. BTOC)	Remarks
835	50	22.0	6.81	1,261	814		
855	90	22.3	6.60	1,890	>1,000	66	Start pumping pump @ 85
900	105	22.7	6.51	2,719	>1,000		
904	125	23.1	6.48	3,114	1000	69	
908	145	23.2	6.46	3,016	932		
910.30'	160	22.7	6.48	2,845	519	70.35	
915	180	23.1	6.47	2,441	224		
919	200	22.9	6.52	2,310	180		
922	215						
927	~~235~~ 240	22.8	6.65	2,097	131	70.55	
933	260	23.0	6.51	2,493	72	~~70.4~~	
936:30'	275	22.8	6.56	2,445	40	70.48	
943	295	22.5	6.54	2,436	22	70.68	
948	305	22.6	6.55	2,439	14	70.95	
952 30"	330						

CDM **WELL DEVELOPMENT LOG**

Appendix D

Appendix D

IDW LABORATORY REPORTS AND CHAIN-OF CUSTODY DOCUMENTS

CDM

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

LABORATORY REPORT

Prepared For: Camp, Dresser & McKee
18581 Teller Avenue, #200
Irvine, CA 92612
Attention: Ravi Subramanian

Project: Boeing
5000-55353

Sampled: 06/15/07
Received: 06/15/07
Issued: 06/26/07 17:00

NELAP #01108CA California ELAP#1197 CSDLAC #10256

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

SAMPLE CROSS REFERENCE

LABORATORY ID	CLIENT ID	MATRIX
IQF1428-01	Disposal-Soil-061507	Soil
IQF1428-02	Disposal-Water-061507	Water
IQF1428-03	Drilling-Water-061507	Water

Reviewed By:

Michele Chamberlin

TestAmerica - Irvine, CA

Michele Chamberlin
Project Manager

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

Camp, Dresser & McKee
18581 Teller Avenue, #200
Irvine, CA 92612
Attention: Ravi Subramanian

Project ID: Boeing
5000-55353
Report Number: IQF1428

Sampled: 06/15/07
Received: 06/15/07

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

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IQF1428-01 (Disposal-Soil-061507 - Soil)								
Reporting Units: ug/kg								
Benzene	EPA 8260B	7F20002	2.0	ND	1	6/20/2007	6/20/2007	
Bromobenzene	EPA 8260B	7F20002	5.0	ND	1	6/20/2007	6/20/2007	
Bromochloromethane	EPA 8260B	7F20002	5.0	ND	1	6/20/2007	6/20/2007	
Bromodichloromethane	EPA 8260B	7F20002	2.0	ND	1	6/20/2007	6/20/2007	
Bromoform	EPA 8260B	7F20002	5.0	ND	1	6/20/2007	6/20/2007	
Bromomethane	EPA 8260B	7F20002	5.0	ND	1	6/20/2007	6/20/2007	
n-Butylbenzene	EPA 8260B	7F20002	5.0	ND	1	6/20/2007	6/20/2007	
sec-Butylbenzene	EPA 8260B	7F20002	5.0	ND	1	6/20/2007	6/20/2007	
tert-Butylbenzene	EPA 8260B	7F20002	5.0	ND	1	6/20/2007	6/20/2007	
Carbon tetrachloride	EPA 8260B	7F20002	5.0	ND	1	6/20/2007	6/20/2007	
Chlorobenzene	EPA 8260B	7F20002	2.0	ND	1	6/20/2007	6/20/2007	
Chloroethane	EPA 8260B	7F20002	5.0	ND	1	6/20/2007	6/20/2007	
Chloroform	EPA 8260B	7F20002	2.0	ND	1	6/20/2007	6/20/2007	
Chloromethane	EPA 8260B	7F20002	5.0	ND	1	6/20/2007	6/20/2007	
2-Chlorotoluene	EPA 8260B	7F20002	5.0	ND	1	6/20/2007	6/20/2007	
4-Chlorotoluene	EPA 8260B	7F20002	5.0	ND	1	6/20/2007	6/20/2007	
Dibromochloromethane	EPA 8260B	7F20002	2.0	ND	1	6/20/2007	6/20/2007	
1,2-Dibromo-3-chloropropane	EPA 8260B	7F20002	5.0	ND	1	6/20/2007	6/20/2007	
1,2-Dibromoethane (EDB)	EPA 8260B	7F20002	2.0	ND	1	6/20/2007	6/20/2007	
Dibromomethane	EPA 8260B	7F20002	2.0	ND	1	6/20/2007	6/20/2007	
1,2-Dichlorobenzene	EPA 8260B	7F20002	2.0	ND	1	6/20/2007	6/20/2007	
1,3-Dichlorobenzene	EPA 8260B	7F20002	2.0	ND	1	6/20/2007	6/20/2007	
1,4-Dichlorobenzene	EPA 8260B	7F20002	2.0	ND	1	6/20/2007	6/20/2007	
Dichlorodifluoromethane	EPA 8260B	7F20002	5.0	ND	1	6/20/2007	6/20/2007	R
1,1-Dichloroethane	EPA 8260B	7F20002	2.0	ND	1	6/20/2007	6/20/2007	
1,2-Dichloroethane	EPA 8260B	7F20002	2.0	ND	1	6/20/2007	6/20/2007	
1,1-Dichloroethene	EPA 8260B	7F20002	5.0	**5.8**	1	6/20/2007	6/20/2007	
cis-1,2-Dichloroethene	EPA 8260B	7F20002	2.0	**6.1**	1	6/20/2007	6/20/2007	
trans-1,2-Dichloroethene	EPA 8260B	7F20002	2.0	ND	1	6/20/2007	6/20/2007	
1,2-Dichloropropane	EPA 8260B	7F20002	2.0	ND	1	6/20/2007	6/20/2007	
1,3-Dichloropropane	EPA 8260B	7F20002	2.0	ND	1	6/20/2007	6/20/2007	
2,2-Dichloropropane	EPA 8260B	7F20002	2.0	ND	1	6/20/2007	6/20/2007	
1,1-Dichloropropene	EPA 8260B	7F20002	2.0	ND	1	6/20/2007	6/20/2007	
cis-1,3-Dichloropropene	EPA 8260B	7F20002	2.0	ND	1	6/20/2007	6/20/2007	
trans-1,3-Dichloropropene	EPA 8260B	7F20002	2.0	ND	1	6/20/2007	6/20/2007	
Ethylbenzene	EPA 8260B	7F20002	2.0	ND	1	6/20/2007	6/20/2007	
Hexachlorobutadiene	EPA 8260B	7F20002	5.0	ND	1	6/20/2007	6/20/2007	
Isopropylbenzene	EPA 8260B	7F20002	2.0	ND	1	6/20/2007	6/20/2007	
p-Isopropyltoluene	EPA 8260B	7F20002	2.0	ND	1	6/20/2007	6/20/2007	
Methylene chloride	EPA 8260B	7F20002	20	ND	1	6/20/2007	6/20/2007	
Naphthalene	EPA 8260B	7F20002	5.0	ND	1	6/20/2007	6/20/2007	

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Project ID: Boeing
5000-55353
Report Number: IQF1428

Sampled: 06/15/07
Received: 06/15/07

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

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IQF1428-01 (Disposal-Soil-061507 - Soil) - cont.								
Reporting Units: ug/kg								
n-Propylbenzene	EPA 8260B	7F20002	2.0	ND	1	6/20/2007	6/20/2007	
Styrene	EPA 8260B	7F20002	2.0	ND	1	6/20/2007	6/20/2007	
1,1,1,2-Tetrachloroethane	EPA 8260B	7F20002	5.0	ND	1	6/20/2007	6/20/2007	
1,1,2,2-Tetrachloroethane	EPA 8260B	7F20002	2.0	ND	1	6/20/2007	6/20/2007	
Tetrachloroethene	EPA 8260B	7F20002	2.0	ND	1	6/20/2007	6/20/2007	
Toluene	EPA 8260B	7F20002	2.0	**2.6**	1	6/20/2007	6/20/2007	
1,2,3-Trichlorobenzene	EPA 8260B	7F20002	5.0	ND	1	6/20/2007	6/20/2007	
1,2,4-Trichlorobenzene	EPA 8260B	7F20002	5.0	ND	1	6/20/2007	6/20/2007	
1,1,1-Trichloroethane	EPA 8260B	7F20002	2.0	ND	1	6/20/2007	6/20/2007	
1,1,2-Trichloroethane	EPA 8260B	7F20002	2.0	ND	1	6/20/2007	6/20/2007	
Trichloroethene	EPA 8260B	7F20002	2.0	**5.1**	1	6/20/2007	6/20/2007	
Trichlorofluoromethane	EPA 8260B	7F20002	5.0	ND	1	6/20/2007	6/20/2007	
1,2,3-Trichloropropane	EPA 8260B	7F20002	10	ND	1	6/20/2007	6/20/2007	
1,2,4-Trimethylbenzene	EPA 8260B	7F20002	2.0	ND	1	6/20/2007	6/20/2007	
1,3,5-Trimethylbenzene	EPA 8260B	7F20002	2.0	ND	1	6/20/2007	6/20/2007	
Vinyl chloride	EPA 8260B	7F20002	5.0	ND	1	6/20/2007	6/20/2007	
o-Xylene	EPA 8260B	7F20002	2.0	ND	1	6/20/2007	6/20/2007	
m,p-Xylenes	EPA 8260B	7F20002	2.0	ND	1	6/20/2007	6/20/2007	
Surrogate: Dibromofluoromethane (80-125%)				*107 %*				
Surrogate: Toluene-d8 (80-120%)				*102 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*95 %*				

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

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IQF1428-02 (Disposal-Water-061507 - Water)								**P, pH**
Reporting Units: ug/l								
Benzene	EPA 8260B	7F24002	800	ND	400	6/24/2007	6/24/2007	
Bromobenzene	EPA 8260B	7F24002	2000	ND	400	6/24/2007	6/24/2007	
Bromochloromethane	EPA 8260B	7F24002	2000	ND	400	6/24/2007	6/24/2007	
Bromodichloromethane	EPA 8260B	7F24002	800	ND	400	6/24/2007	6/24/2007	
Bromoform	EPA 8260B	7F24002	2000	ND	400	6/24/2007	6/24/2007	
Bromomethane	EPA 8260B	7F24002	2000	ND	400	6/24/2007	6/24/2007	
n-Butylbenzene	EPA 8260B	7F24002	2000	ND	400	6/24/2007	6/24/2007	
sec-Butylbenzene	EPA 8260B	7F24002	2000	ND	400	6/24/2007	6/24/2007	
tert-Butylbenzene	EPA 8260B	7F24002	2000	ND	400	6/24/2007	6/24/2007	
Carbon tetrachloride	EPA 8260B	7F24002	2000	ND	400	6/24/2007	6/24/2007	
Chlorobenzene	EPA 8260B	7F24002	800	ND	400	6/24/2007	6/24/2007	
Chloroethane	EPA 8260B	7F24002	2000	ND	400	6/24/2007	6/24/2007	
Chloroform	EPA 8260B	7F24002	800	ND	400	6/24/2007	6/24/2007	
Chloromethane	EPA 8260B	7F24002	2000	ND	400	6/24/2007	6/24/2007	
2-Chlorotoluene	EPA 8260B	7F24002	2000	ND	400	6/24/2007	6/24/2007	
4-Chlorotoluene	EPA 8260B	7F24002	2000	ND	400	6/24/2007	6/24/2007	
Dibromochloromethane	EPA 8260B	7F24002	800	ND	400	6/24/2007	6/24/2007	
1,2-Dibromo-3-chloropropane	EPA 8260B	7F24002	2000	ND	400	6/24/2007	6/24/2007	
1,2-Dibromoethane (EDB)	EPA 8260B	7F24002	800	ND	400	6/24/2007	6/24/2007	
Dibromomethane	EPA 8260B	7F24002	800	ND	400	6/24/2007	6/24/2007	
1,2-Dichlorobenzene	EPA 8260B	7F24002	800	ND	400	6/24/2007	6/24/2007	
1,3-Dichlorobenzene	EPA 8260B	7F24002	800	ND	400	6/24/2007	6/24/2007	
1,4-Dichlorobenzene	EPA 8260B	7F24002	800	ND	400	6/24/2007	6/24/2007	
Dichlorodifluoromethane	EPA 8260B	7F24002	2000	ND	400	6/24/2007	6/24/2007	
1,1-Dichloroethane	EPA 8260B	7F24002	800	ND	400	6/24/2007	6/24/2007	
1,2-Dichloroethane	EPA 8260B	7F24002	800	ND	400	6/24/2007	6/24/2007	
1,1-Dichloroethene	EPA 8260B	7F24002	2000	**6300**	400	6/24/2007	6/24/2007	
cis-1,2-Dichloroethene	EPA 8260B	7F24002	800	**4800**	400	6/24/2007	6/24/2007	
trans-1,2-Dichloroethene	EPA 8260B	7F24002	800	ND	400	6/24/2007	6/24/2007	
1,2-Dichloropropane	EPA 8260B	7F24002	800	ND	400	6/24/2007	6/24/2007	
1,3-Dichloropropane	EPA 8260B	7F24002	800	ND	400	6/24/2007	6/24/2007	
2,2-Dichloropropane	EPA 8260B	7F24002	800	ND	400	6/24/2007	6/24/2007	
1,1-Dichloropropene	EPA 8260B	7F24002	800	ND	400	6/24/2007	6/24/2007	
cis-1,3-Dichloropropene	EPA 8260B	7F24002	800	ND	400	6/24/2007	6/24/2007	
trans-1,3-Dichloropropene	EPA 8260B	7F24002	800	ND	400	6/24/2007	6/24/2007	
Ethylbenzene	EPA 8260B	7F24002	800	ND	400	6/24/2007	6/24/2007	
Hexachlorobutadiene	EPA 8260B	7F24002	2000	ND	400	6/24/2007	6/24/2007	
Isopropylbenzene	EPA 8260B	7F24002	800	ND	400	6/24/2007	6/24/2007	
p-Isopropyltoluene	EPA 8260B	7F24002	800	ND	400	6/24/2007	6/24/2007	
Methylene chloride	EPA 8260B	7F24002	2000	ND	400	6/24/2007	6/24/2007	
Naphthalene	EPA 8260B	7F24002	2000	ND	400	6/24/2007	6/24/2007	

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

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IQF1428-02 (Disposal-Water-061507 - Water) - cont.								**P, pH**
Reporting Units: ug/l								
n-Propylbenzene	EPA 8260B	7F24002	800	ND	400	6/24/2007	6/24/2007	
Styrene	EPA 8260B	7F24002	800	ND	400	6/24/2007	6/24/2007	
1,1,1,2-Tetrachloroethane	EPA 8260B	7F24002	2000	ND	400	6/24/2007	6/24/2007	
1,1,2,2-Tetrachloroethane	EPA 8260B	7F24002	800	ND	400	6/24/2007	6/24/2007	
Tetrachloroethene	EPA 8260B	7F24002	800	ND	400	6/24/2007	6/24/2007	
Toluene	EPA 8260B	7F24002	800	**5800**	400	6/24/2007	6/24/2007	
1,2,3-Trichlorobenzene	EPA 8260B	7F24002	2000	ND	400	6/24/2007	6/24/2007	
1,2,4-Trichlorobenzene	EPA 8260B	7F24002	2000	ND	400	6/24/2007	6/24/2007	
1,1,1-Trichloroethane	EPA 8260B	7F24002	800	ND	400	6/24/2007	6/24/2007	
1,1,2-Trichloroethane	EPA 8260B	7F24002	800	ND	400	6/24/2007	6/24/2007	
Trichloroethene	EPA 8260B	7F24002	800	ND	400	6/24/2007	6/24/2007	
Trichlorofluoromethane	EPA 8260B	7F24002	2000	ND	400	6/24/2007	6/24/2007	
1,2,3-Trichloropropane	EPA 8260B	7F24002	4000	ND	400	6/24/2007	6/24/2007	
1,2,4-Trimethylbenzene	EPA 8260B	7F24002	800	ND	400	6/24/2007	6/24/2007	
1,3,5-Trimethylbenzene	EPA 8260B	7F24002	800	ND	400	6/24/2007	6/24/2007	
Vinyl chloride	EPA 8260B	7F24002	2000	ND	400	6/24/2007	6/24/2007	
o-Xylene	EPA 8260B	7F24002	800	ND	400	6/24/2007	6/24/2007	
m,p-Xylenes	EPA 8260B	7F24002	800	ND	400	6/24/2007	6/24/2007	
Surrogate: Dibromofluoromethane (80-120%)				*105 %*				
Surrogate: Toluene-d8 (80-120%)				*100 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*103 %*				

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

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IQF1428-03 (Drilling-Water-061507 - Water)								
Reporting Units: ug/l								
Benzene	EPA 8260B	7F24002	2.0	ND	1	6/24/2007	6/24/2007	
Bromobenzene	EPA 8260B	7F24002	5.0	ND	1	6/24/2007	6/24/2007	
Bromochloromethane	EPA 8260B	7F24002	5.0	ND	1	6/24/2007	6/24/2007	
Bromodichloromethane	EPA 8260B	7F24002	2.0	**8.9**	1	6/24/2007	6/24/2007	
Bromoform	EPA 8260B	7F24002	5.0	ND	1	6/24/2007	6/24/2007	
Bromomethane	EPA 8260B	7F24002	5.0	ND	1	6/24/2007	6/24/2007	
n-Butylbenzene	EPA 8260B	7F24002	5.0	ND	1	6/24/2007	6/24/2007	
sec-Butylbenzene	EPA 8260B	7F24002	5.0	ND	1	6/24/2007	6/24/2007	
tert-Butylbenzene	EPA 8260B	7F24002	5.0	ND	1	6/24/2007	6/24/2007	
Carbon tetrachloride	EPA 8260B	7F24002	5.0	ND	1	6/24/2007	6/24/2007	
Chlorobenzene	EPA 8260B	7F24002	2.0	ND	1	6/24/2007	6/24/2007	
Chloroethane	EPA 8260B	7F24002	5.0	ND	1	6/24/2007	6/24/2007	
Chloroform	EPA 8260B	7F24002	2.0	**38**	1	6/24/2007	6/24/2007	
Chloromethane	EPA 8260B	7F24002	5.0	ND	1	6/24/2007	6/24/2007	
2-Chlorotoluene	EPA 8260B	7F24002	5.0	ND	1	6/24/2007	6/24/2007	
4-Chlorotoluene	EPA 8260B	7F24002	5.0	ND	1	6/24/2007	6/24/2007	
Dibromochloromethane	EPA 8260B	7F24002	2.0	**5.2**	1	6/24/2007	6/24/2007	
1,2-Dibromo-3-chloropropane	EPA 8260B	7F24002	5.0	ND	1	6/24/2007	6/24/2007	
1,2-Dibromoethane (EDB)	EPA 8260B	7F24002	2.0	ND	1	6/24/2007	6/24/2007	
Dibromomethane	EPA 8260B	7F24002	2.0	ND	1	6/24/2007	6/24/2007	
1,2-Dichlorobenzene	EPA 8260B	7F24002	2.0	ND	1	6/24/2007	6/24/2007	
1,3-Dichlorobenzene	EPA 8260B	7F24002	2.0	ND	1	6/24/2007	6/24/2007	
1,4-Dichlorobenzene	EPA 8260B	7F24002	2.0	ND	1	6/24/2007	6/24/2007	
Dichlorodifluoromethane	EPA 8260B	7F24002	5.0	ND	1	6/24/2007	6/24/2007	
1,1-Dichloroethane	EPA 8260B	7F24002	2.0	**4.0**	1	6/24/2007	6/24/2007	
1,2-Dichloroethane	EPA 8260B	7F24002	2.0	ND	1	6/24/2007	6/24/2007	
1,1-Dichloroethene	EPA 8260B	7F24002	5.0	**52**	1	6/24/2007	6/24/2007	
cis-1,2-Dichloroethene	EPA 8260B	7F24002	2.0	**37**	1	6/24/2007	6/24/2007	
trans-1,2-Dichloroethene	EPA 8260B	7F24002	2.0	ND	1	6/24/2007	6/24/2007	
1,2-Dichloropropane	EPA 8260B	7F24002	2.0	ND	1	6/24/2007	6/24/2007	
1,3-Dichloropropane	EPA 8260B	7F24002	2.0	ND	1	6/24/2007	6/24/2007	
2,2-Dichloropropane	EPA 8260B	7F24002	2.0	ND	1	6/24/2007	6/24/2007	
1,1-Dichloropropene	EPA 8260B	7F24002	2.0	ND	1	6/24/2007	6/24/2007	
cis-1,3-Dichloropropene	EPA 8260B	7F24002	2.0	ND	1	6/24/2007	6/24/2007	
trans-1,3-Dichloropropene	EPA 8260B	7F24002	2.0	ND	1	6/24/2007	6/24/2007	
Ethylbenzene	EPA 8260B	7F24002	2.0	**4.1**	1	6/24/2007	6/24/2007	
Hexachlorobutadiene	EPA 8260B	7F24002	5.0	ND	1	6/24/2007	6/24/2007	
Isopropylbenzene	EPA 8260B	7F24002	2.0	ND	1	6/24/2007	6/24/2007	
p-Isopropyltoluene	EPA 8260B	7F24002	2.0	ND	1	6/24/2007	6/24/2007	
Methylene chloride	EPA 8260B	7F24002	5.0	ND	1	6/24/2007	6/24/2007	
Naphthalene	EPA 8260B	7F24002	5.0	ND	1	6/24/2007	6/24/2007	

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

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IQF1428-03 (Drilling-Water-061507 - Water) - cont.								
Reporting Units: ug/l								
n-Propylbenzene	EPA 8260B	7F24002	2.0	ND	1	6/24/2007	6/24/2007	
Styrene	EPA 8260B	7F24002	2.0	ND	1	6/24/2007	6/24/2007	
1,1,1,2-Tetrachloroethane	EPA 8260B	7F24002	5.0	ND	1	6/24/2007	6/24/2007	
1,1,2,2-Tetrachloroethane	EPA 8260B	7F24002	2.0	ND	1	6/24/2007	6/24/2007	
Tetrachloroethene	EPA 8260B	7F24002	2.0	ND	1	6/24/2007	6/24/2007	
Toluene	EPA 8260B	7F24002	2.0	**38**	1	6/24/2007	6/24/2007	
1,2,3-Trichlorobenzene	EPA 8260B	7F24002	5.0	ND	1	6/24/2007	6/24/2007	
1,2,4-Trichlorobenzene	EPA 8260B	7F24002	5.0	ND	1	6/24/2007	6/24/2007	
1,1,1-Trichloroethane	EPA 8260B	7F24002	2.0	ND	1	6/24/2007	6/24/2007	
1,1,2-Trichloroethane	EPA 8260B	7F24002	2.0	ND	1	6/24/2007	6/24/2007	
Trichloroethene	EPA 8260B	7F24002	2.0	**11**	1	6/24/2007	6/24/2007	
Trichlorofluoromethane	EPA 8260B	7F24002	5.0	ND	1	6/24/2007	6/24/2007	
1,2,3-Trichloropropane	EPA 8260B	7F24002	10	ND	1	6/24/2007	6/24/2007	
1,2,4-Trimethylbenzene	EPA 8260B	7F24002	2.0	**5.2**	1	6/24/2007	6/24/2007	
1,3,5-Trimethylbenzene	EPA 8260B	7F24002	2.0	**3.2**	1	6/24/2007	6/24/2007	
Vinyl chloride	EPA 8260B	7F24002	5.0	ND	1	6/24/2007	6/24/2007	
o-Xylene	EPA 8260B	7F24002	2.0	**28**	1	6/24/2007	6/24/2007	
m,p-Xylenes	EPA 8260B	7F24002	2.0	**20**	1	6/24/2007	6/24/2007	
Surrogate: Dibromofluoromethane (80-120%)				*103 %*				
Surrogate: Toluene-d8 (80-120%)				*99 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*102 %*				

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Michele Chamberlin
Project Manager

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Camp, Dresser & McKee
18581 Teller Avenue, #200
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Attention: Ravi Subramanian

Project ID: Boeing
5000-55353
Report Number: IQF1428

Sampled: 06/15/07
Received: 06/15/07

VOLATILE ORGANICS by GC/MS (EPA 5035/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IQF1428-01 (Disposal-Soil-061507 - Soil)								
Reporting Units: ug/kg								
Benzene	EPA 8260B	7F19007	2.0	ND	0.99	6/19/2007	6/19/2007	
Bromobenzene	EPA 8260B	7F19007	5.0	ND	0.99	6/19/2007	6/19/2007	
Bromochloromethane	EPA 8260B	7F19007	5.0	ND	0.99	6/19/2007	6/19/2007	
Bromodichloromethane	EPA 8260B	7F19007	2.0	ND	0.99	6/19/2007	6/19/2007	
Bromoform	EPA 8260B	7F19007	5.0	ND	0.99	6/19/2007	6/19/2007	
Bromomethane	EPA 8260B	7F19007	5.0	ND	0.99	6/19/2007	6/19/2007	
n-Butylbenzene	EPA 8260B	7F19007	5.0	ND	0.99	6/19/2007	6/19/2007	
sec-Butylbenzene	EPA 8260B	7F19007	5.0	ND	0.99	6/19/2007	6/19/2007	
tert-Butylbenzene	EPA 8260B	7F19007	5.0	ND	0.99	6/19/2007	6/19/2007	
Carbon tetrachloride	EPA 8260B	7F19007	5.0	ND	0.99	6/19/2007	6/19/2007	
Chlorobenzene	EPA 8260B	7F19007	2.0	ND	0.99	6/19/2007	6/19/2007	
Chloroethane	EPA 8260B	7F19007	5.0	ND	0.99	6/19/2007	6/19/2007	
Chloroform	EPA 8260B	7F19007	2.0	ND	0.99	6/19/2007	6/19/2007	
Chloromethane	EPA 8260B	7F19007	5.0	ND	0.99	6/19/2007	6/19/2007	
2-Chlorotoluene	EPA 8260B	7F19007	5.0	ND	0.99	6/19/2007	6/19/2007	
4-Chlorotoluene	EPA 8260B	7F19007	5.0	ND	0.99	6/19/2007	6/19/2007	
Dibromochloromethane	EPA 8260B	7F19007	2.0	ND	0.99	6/19/2007	6/19/2007	
1,2-Dibromo-3-chloropropane	EPA 8260B	7F19007	5.0	ND	0.99	6/19/2007	6/19/2007	
1,2-Dibromoethane (EDB)	EPA 8260B	7F19007	2.0	ND	0.99	6/19/2007	6/19/2007	
Dibromomethane	EPA 8260B	7F19007	2.0	ND	0.99	6/19/2007	6/19/2007	
1,2-Dichlorobenzene	EPA 8260B	7F19007	2.0	ND	0.99	6/19/2007	6/19/2007	
1,3-Dichlorobenzene	EPA 8260B	7F19007	2.0	ND	0.99	6/19/2007	6/19/2007	
1,4-Dichlorobenzene	EPA 8260B	7F19007	2.0	ND	0.99	6/19/2007	6/19/2007	
Dichlorodifluoromethane	EPA 8260B	7F19007	5.0	ND	0.99	6/19/2007	6/19/2007	
1,1-Dichloroethane	EPA 8260B	7F19007	2.0	ND	0.99	6/19/2007	6/19/2007	
1,2-Dichloroethane	EPA 8260B	7F19007	2.0	ND	0.99	6/19/2007	6/19/2007	
1,1-Dichloroethene	EPA 8260B	7F19007	5.0	ND	0.99	6/19/2007	6/19/2007	
cis-1,2-Dichloroethene	EPA 8260B	7F19007	2.0	**11**	0.99	6/19/2007	6/19/2007	
trans-1,2-Dichloroethene	EPA 8260B	7F19007	2.0	ND	0.99	6/19/2007	6/19/2007	
1,2-Dichloropropane	EPA 8260B	7F19007	2.0	ND	0.99	6/19/2007	6/19/2007	
1,3-Dichloropropane	EPA 8260B	7F19007	2.0	ND	0.99	6/19/2007	6/19/2007	
2,2-Dichloropropane	EPA 8260B	7F19007	2.0	ND	0.99	6/19/2007	6/19/2007	
1,1-Dichloropropene	EPA 8260B	7F19007	2.0	ND	0.99	6/19/2007	6/19/2007	
cis-1,3-Dichloropropene	EPA 8260B	7F19007	2.0	ND	0.99	6/19/2007	6/19/2007	
trans-1,3-Dichloropropene	EPA 8260B	7F19007	2.0	ND	0.99	6/19/2007	6/19/2007	
Ethylbenzene	EPA 8260B	7F19007	2.0	ND	0.99	6/19/2007	6/19/2007	
Hexachlorobutadiene	EPA 8260B	7F19007	5.0	ND	0.99	6/19/2007	6/19/2007	
Isopropylbenzene	EPA 8260B	7F19007	2.0	ND	0.99	6/19/2007	6/19/2007	
p-Isopropyltoluene	EPA 8260B	7F19007	2.0	ND	0.99	6/19/2007	6/19/2007	
Methylene chloride	EPA 8260B	7F19007	20	ND	0.99	6/19/2007	6/19/2007	
Naphthalene	EPA 8260B	7F19007	5.0	ND	0.99	6/19/2007	6/19/2007	

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Attention: Ravi Subramanian

Project ID: Boeing
5000-55353
Report Number: IQF1428

Sampled: 06/15/07
Received: 06/15/07

VOLATILE ORGANICS by GC/MS (EPA 5035/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IQF1428-01 (Disposal-Soil-061507 - Soil) - cont.								
Reporting Units: ug/kg								
n-Propylbenzene	EPA 8260B	7F19007	2.0	ND	0.99	6/19/2007	6/19/2007	
Styrene	EPA 8260B	7F19007	2.0	ND	0.99	6/19/2007	6/19/2007	
1,1,1,2-Tetrachloroethane	EPA 8260B	7F19007	5.0	ND	0.99	6/19/2007	6/19/2007	
1,1,2,2-Tetrachloroethane	EPA 8260B	7F19007	2.0	ND	0.99	6/19/2007	6/19/2007	
Tetrachloroethene	EPA 8260B	7F19007	2.0	ND	0.99	6/19/2007	6/19/2007	
Toluene	EPA 8260B	7F19007	2.0	**4.6**	0.99	6/19/2007	6/19/2007	
1,2,3-Trichlorobenzene	EPA 8260B	7F19007	5.0	ND	0.99	6/19/2007	6/19/2007	
1,2,4-Trichlorobenzene	EPA 8260B	7F19007	5.0	ND	0.99	6/19/2007	6/19/2007	
1,1,1-Trichloroethane	EPA 8260B	7F19007	2.0	ND	0.99	6/19/2007	6/19/2007	
1,1,2-Trichloroethane	EPA 8260B	7F19007	2.0	ND	0.99	6/19/2007	6/19/2007	
Trichloroethene	EPA 8260B	7F19007	2.0	**7.3**	0.99	6/19/2007	6/19/2007	
Trichlorofluoromethane	EPA 8260B	7F19007	5.0	ND	0.99	6/19/2007	6/19/2007	
1,2,3-Trichloropropane	EPA 8260B	7F19007	9.9	ND	0.99	6/19/2007	6/19/2007	
1,2,4-Trimethylbenzene	EPA 8260B	7F19007	2.0	ND	0.99	6/19/2007	6/19/2007	
1,3,5-Trimethylbenzene	EPA 8260B	7F19007	2.0	ND	0.99	6/19/2007	6/19/2007	
Vinyl chloride	EPA 8260B	7F19007	5.0	ND	0.99	6/19/2007	6/19/2007	
o-Xylene	EPA 8260B	7F19007	2.0	ND	0.99	6/19/2007	6/19/2007	
m,p-Xylenes	EPA 8260B	7F19007	2.0	ND	0.99	6/19/2007	6/19/2007	
Surrogate: Dibromofluoromethane (80-125%)				*109 %*				
Surrogate: Toluene-d8 (80-120%)				*103 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*98 %*				

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METALS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IQF1428-01 (Disposal-Soil-061507 - Soil)								
Reporting Units: mg/kg								
Antimony	EPA 6010B	7F19104	10	ND	1	6/19/2007	6/20/2007	
Arsenic	EPA 6010B	7F19104	2.0	ND	1	6/19/2007	6/20/2007	
Barium	EPA 6010B	7F19104	1.0	**47**	1	6/19/2007	6/20/2007	
Beryllium	EPA 6010B	7F19104	0.50	ND	1	6/19/2007	6/20/2007	
Cadmium	EPA 6010B	7F19104	0.50	ND	1	6/19/2007	6/20/2007	
Chromium	EPA 6010B	7F19104	1.0	**12**	1	6/19/2007	6/20/2007	
Cobalt	EPA 6010B	7F19104	1.0	**5.7**	1	6/19/2007	6/20/2007	
Copper	EPA 6010B	7F19104	2.0	**11**	1	6/19/2007	6/20/2007	
Lead	EPA 6010B	7F19104	2.0	**2.4**	1	6/19/2007	6/20/2007	
Mercury	EPA 7471A	7F21072	0.020	**0.030**	1	6/21/2007	6/21/2007	
Molybdenum	EPA 6010B	7F19104	2.0	ND	1	6/19/2007	6/20/2007	
Nickel	EPA 6010B	7F19104	2.0	**9.3**	1	6/19/2007	6/20/2007	
Selenium	EPA 6010B	7F19104	2.0	ND	1	6/19/2007	6/20/2007	
Silver	EPA 6010B	7F19104	1.0	ND	1	6/19/2007	6/20/2007	
Thallium	EPA 6010B	7F19104	10	ND	1	6/19/2007	6/20/2007	
Vanadium	EPA 6010B	7F19104	1.0	**21**	1	6/19/2007	6/20/2007	
Zinc	EPA 6010B	7F19104	5.0	**29**	1	6/19/2007	6/20/2007	

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Sampled: 06/15/07
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HYDROCARBON DISTRIBUTION (CADHS/8015 Mod.)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	% of Total	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IQF1428-01 (Disposal-Soil-061507 - Soil)									
Reporting Units: mg/kg									
EFH (C6 - C40)	EPA 8015 MOD.	7F18072	5.0	ND	1	N/A	6/19/2007	6/22/2007	
EFH (C6 - C7)	EPA 8015 MOD.	7F18072	3.5	ND	1	N/A	6/19/2007	6/22/2007	
EFH (C8 - C9)	EPA 8015 MOD.	7F18072	3.5	ND	1	N/A	6/19/2007	6/22/2007	
EFH (C10 - C11)	EPA 8015 MOD.	7F18072	3.5	ND	1	N/A	6/19/2007	6/22/2007	
EFH (C12 - C13)	EPA 8015 MOD.	7F18072	3.5	ND	1	N/A	6/19/2007	6/22/2007	
EFH (C14 - C15)	EPA 8015 MOD.	7F18072	3.5	ND	1	N/A	6/19/2007	6/22/2007	
EFH (C16 - C17)	EPA 8015 MOD.	7F18072	3.5	ND	1	N/A	6/19/2007	6/22/2007	
EFH (C18 - C19)	EPA 8015 MOD.	7F18072	3.5	ND	1	N/A	6/19/2007	6/22/2007	
EFH (C20 - C21)	EPA 8015 MOD.	7F18072	3.5	ND	1	N/A	6/19/2007	6/22/2007	
EFH (C22 - C23)	EPA 8015 MOD.	7F18072	3.5	ND	1	N/A	6/19/2007	6/22/2007	
EFH (C24 - C25)	EPA 8015 MOD.	7F18072	3.5	ND	1	N/A	6/19/2007	6/22/2007	
EFH (C26 - C27)	EPA 8015 MOD.	7F18072	3.5	ND	1	N/A	6/19/2007	6/22/2007	
EFH (C28 - C29)	EPA 8015 MOD.	7F18072	3.5	ND	1	N/A	6/19/2007	6/22/2007	
EFH (C30 - C31)	EPA 8015 MOD.	7F18072	3.5	ND	1	N/A	6/19/2007	6/22/2007	
EFH (C32 - C35)	EPA 8015 MOD.	7F18072	3.5	ND	1	N/A	6/19/2007	6/22/2007	
EFH (C36 - C40)	EPA 8015 MOD.	7F18072	3.5	ND	1	N/A	6/19/2007	6/22/2007	
Surrogate: n-Octacosane (40-125%)				*78 %*					

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METHOD BLANK/QC DATA

HYDROCARBON DISTRIBUTION (CADHS/8015 Mod.)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 7F18072 Extracted: 06/18/07										
Blank Analyzed: 06/22/2007 (7F18072-BLK1)										
EFH (C6 - C40)	ND	5.0	mg/kg							
EFH (C6 - C7)	ND	3.5	mg/kg							
EFH (C8 - C9)	ND	3.5	mg/kg							
EFH (C10 - C11)	ND	3.5	mg/kg							
EFH (C12 - C13)	ND	3.5	mg/kg							
EFH (C14 - C15)	ND	3.5	mg/kg							
EFH (C16 - C17)	ND	3.5	mg/kg							
EFH (C18 - C19)	ND	3.5	mg/kg							
EFH (C20 - C21)	ND	3.5	mg/kg							
EFH (C22 - C23)	ND	3.5	mg/kg							
EFH (C24 - C25)	ND	3.5	mg/kg							
EFH (C26 - C27)	ND	3.5	mg/kg							
EFH (C28 - C29)	ND	3.5	mg/kg							
EFH (C30 - C31)	ND	3.5	mg/kg							
EFH (C32 - C35)	ND	3.5	mg/kg							
EFH (C36 - C40)	ND	3.5	mg/kg							
Surrogate: n-Octacosane	*6.23*		*mg/kg*	*6.67*		*93*	*40-125*			
LCS Analyzed: 06/22/2007 (7F18072-BS1)										
EFH (C6 - C40)	29.8	5.0	mg/kg	33.3		89	40-115			
Surrogate: n-Octacosane	*5.98*		*mg/kg*	*6.67*		*90*	*40-125*			
Matrix Spike Analyzed: 06/22/2007 (7F18072-MS1)					**Source: IQF1331-16**					
EFH (C6 - C40)	26.4	5.0	mg/kg	33.3	ND	79	40-120			
Surrogate: n-Octacosane	*4.98*		*mg/kg*	*6.67*		*75*	*40-125*			
Matrix Spike Dup Analyzed: 06/22/2007 (7F18072-MSD1)					**Source: IQF1331-16**					
EFH (C6 - C40)	25.8	5.0	mg/kg	33.3	ND	78	40-120	2	30	
Surrogate: n-Octacosane	*5.46*		*mg/kg*	*6.67*		*82*	*40-125*			

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METHOD BLANK/QC DATA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 7F20002 Extracted: 06/20/07										
Blank Analyzed: 06/20/2007 (7F20002-BLK1)										
Benzene	ND	2.0	ug/kg							
Bromobenzene	ND	5.0	ug/kg							
Bromochloromethane	ND	5.0	ug/kg							
Bromodichloromethane	ND	2.0	ug/kg							
Bromoform	ND	5.0	ug/kg							
Bromomethane	ND	5.0	ug/kg							
n-Butylbenzene	ND	5.0	ug/kg							
sec-Butylbenzene	ND	5.0	ug/kg							
tert-Butylbenzene	ND	5.0	ug/kg							
Carbon tetrachloride	ND	5.0	ug/kg							
Chlorobenzene	ND	2.0	ug/kg							
Chloroethane	ND	5.0	ug/kg							
Chloroform	ND	2.0	ug/kg							
Chloromethane	ND	5.0	ug/kg							
2-Chlorotoluene	ND	5.0	ug/kg							
4-Chlorotoluene	ND	5.0	ug/kg							
Dibromochloromethane	ND	2.0	ug/kg							
1,2-Dibromo-3-chloropropane	ND	5.0	ug/kg							
1,2-Dibromoethane (EDB)	ND	2.0	ug/kg							
Dibromomethane	ND	2.0	ug/kg							
1,2-Dichlorobenzene	ND	2.0	ug/kg							
1,3-Dichlorobenzene	ND	2.0	ug/kg							
1,4-Dichlorobenzene	ND	2.0	ug/kg							
Dichlorodifluoromethane	ND	5.0	ug/kg							
1,1-Dichloroethane	ND	2.0	ug/kg							
1,2-Dichloroethane	ND	2.0	ug/kg							
1,1-Dichloroethene	ND	5.0	ug/kg							
cis-1,2-Dichloroethene	ND	2.0	ug/kg							
trans-1,2-Dichloroethene	ND	2.0	ug/kg							
1,2-Dichloropropane	ND	2.0	ug/kg							
1,3-Dichloropropane	ND	2.0	ug/kg							
2,2-Dichloropropane	ND	2.0	ug/kg							
1,1-Dichloropropene	ND	2.0	ug/kg							
cis-1,3-Dichloropropene	ND	2.0	ug/kg							
trans-1,3-Dichloropropene	ND	2.0	ug/kg							

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METHOD BLANK/QC DATA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 7F20002 Extracted: 06/20/07										
Blank Analyzed: 06/20/2007 (7F20002-BLK1)										
Ethylbenzene	ND	2.0	ug/kg							
Hexachlorobutadiene	ND	5.0	ug/kg							
Isopropylbenzene	ND	2.0	ug/kg							
p-Isopropyltoluene	ND	2.0	ug/kg							
Methylene chloride	ND	20	ug/kg							
Naphthalene	ND	5.0	ug/kg							
n-Propylbenzene	ND	2.0	ug/kg							
Styrene	ND	2.0	ug/kg							
1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg							
1,1,2,2-Tetrachloroethane	ND	2.0	ug/kg							
Tetrachloroethene	ND	2.0	ug/kg							
Toluene	ND	2.0	ug/kg							
1,2,3-Trichlorobenzene	ND	5.0	ug/kg							
1,2,4-Trichlorobenzene	ND	5.0	ug/kg							
1,1,1-Trichloroethane	ND	2.0	ug/kg							
1,1,2-Trichloroethane	ND	2.0	ug/kg							
Trichloroethene	ND	2.0	ug/kg							
Trichlorofluoromethane	ND	5.0	ug/kg							
1,2,3-Trichloropropane	ND	10	ug/kg							
1,2,4-Trimethylbenzene	ND	2.0	ug/kg							
1,3,5-Trimethylbenzene	ND	2.0	ug/kg							
Vinyl chloride	ND	5.0	ug/kg							
o-Xylene	ND	2.0	ug/kg							
m,p-Xylenes	ND	2.0	ug/kg							
Surrogate: Dibromofluoromethane	*53.3*		*ug/kg*	*50.0*		*107*	*80-125*			
Surrogate: Toluene-d8	*50.4*		*ug/kg*	*50.0*		*101*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*48.5*		*ug/kg*	*50.0*		*97*	*80-120*			

TestAmerica - Irvine, CA

Michele Chamberlin
Project Manager

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Camp, Dresser & McKee
18581 Teller Avenue, #200
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Attention: Ravi Subramanian

Project ID: Boeing
5000-55353
Report Number: IQF1428

Sampled: 06/15/07
Received: 06/15/07

METHOD BLANK/QC DATA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 7F20002 Extracted: 06/20/07										
LCS Analyzed: 06/20/2007 (7F20002-BS1)										
Benzene	55.2	2.0	ug/kg	50.0		110	65-120			
Bromobenzene	53.6	5.0	ug/kg	50.0		107	75-120			
Bromochloromethane	63.0	5.0	ug/kg	50.0		126	70-135			
Bromodichloromethane	59.8	2.0	ug/kg	50.0		120	70-135			
Bromoform	50.3	5.0	ug/kg	50.0		101	55-135			
Bromomethane	64.5	5.0	ug/kg	50.0		129	60-145			
n-Butylbenzene	56.4	5.0	ug/kg	50.0		113	70-130			
sec-Butylbenzene	54.4	5.0	ug/kg	50.0		109	70-125			
tert-Butylbenzene	55.2	5.0	ug/kg	50.0		110	70-125			
Carbon tetrachloride	57.9	5.0	ug/kg	50.0		116	65-140			
Chlorobenzene	54.8	2.0	ug/kg	50.0		110	75-120			
Chloroethane	64.7	5.0	ug/kg	50.0		129	60-140			
Chloroform	57.8	2.0	ug/kg	50.0		116	70-130			
Chloromethane	60.8	5.0	ug/kg	50.0		122	45-145			
2-Chlorotoluene	51.1	5.0	ug/kg	50.0		102	70-125			
4-Chlorotoluene	53.2	5.0	ug/kg	50.0		106	75-125			
Dibromochloromethane	61.8	2.0	ug/kg	50.0		124	65-140			
1,2-Dibromo-3-chloropropane	54.6	5.0	ug/kg	50.0		109	50-135			
1,2-Dibromoethane (EDB)	61.4	2.0	ug/kg	50.0		123	70-130			
Dibromomethane	61.9	2.0	ug/kg	50.0		124	70-130			
1,2-Dichlorobenzene	55.6	2.0	ug/kg	50.0		111	75-120			
1,3-Dichlorobenzene	55.3	2.0	ug/kg	50.0		111	75-125			
1,4-Dichlorobenzene	50.1	2.0	ug/kg	50.0		100	75-120			
Dichlorodifluoromethane	62.5	5.0	ug/kg	50.0		125	35-160			
1,1-Dichloroethane	58.0	2.0	ug/kg	50.0		116	70-130			
1,2-Dichloroethane	57.4	2.0	ug/kg	50.0		115	60-140			
1,1-Dichloroethene	58.9	5.0	ug/kg	50.0		118	70-125			
cis-1,2-Dichloroethene	59.2	2.0	ug/kg	50.0		118	70-125			
trans-1,2-Dichloroethene	61.1	2.0	ug/kg	50.0		122	70-125			
1,2-Dichloropropane	57.5	2.0	ug/kg	50.0		115	70-130			
1,3-Dichloropropane	58.8	2.0	ug/kg	50.0		118	70-125			
2,2-Dichloropropane	60.8	2.0	ug/kg	50.0		122	60-145			
1,1-Dichloropropene	56.3	2.0	ug/kg	50.0		113	70-130			
cis-1,3-Dichloropropene	56.2	2.0	ug/kg	50.0		112	75-125			
trans-1,3-Dichloropropene	58.2	2.0	ug/kg	50.0		116	70-135			

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Michele Chamberlin
Project Manager

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Attention: Ravi Subramanian

Project ID: Boeing
5000-55353
Report Number: IQF1428

Sampled: 06/15/07
Received: 06/15/07

METHOD BLANK/QC DATA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 7F20002 Extracted: 06/20/07										
LCS Analyzed: 06/20/2007 (7F20002-BS1)										
Ethylbenzene	57.1	2.0	ug/kg	50.0		114	70-125			
Hexachlorobutadiene	54.9	5.0	ug/kg	50.0		110	60-135			
Isopropylbenzene	62.0	2.0	ug/kg	50.0		124	75-130			
p-Isopropyltoluene	55.8	2.0	ug/kg	50.0		112	75-125			
Methylene chloride	57.6	20	ug/kg	50.0		115	55-135			
Naphthalene	60.9	5.0	ug/kg	50.0		122	55-135			
n-Propylbenzene	56.4	2.0	ug/kg	50.0		113	70-130			
Styrene	61.3	2.0	ug/kg	50.0		123	75-130			
1,1,1,2-Tetrachloroethane	59.4	5.0	ug/kg	50.0		119	70-130			
1,1,2,2-Tetrachloroethane	56.7	2.0	ug/kg	50.0		113	55-140			
Tetrachloroethene	57.1	2.0	ug/kg	50.0		114	70-125			
Toluene	55.7	2.0	ug/kg	50.0		111	70-125			
1,2,3-Trichlorobenzene	57.3	5.0	ug/kg	50.0		115	60-130			
1,2,4-Trichlorobenzene	60.9	5.0	ug/kg	50.0		122	70-135			
1,1,1-Trichloroethane	60.1	2.0	ug/kg	50.0		120	65-135			
1,1,2-Trichloroethane	61.2	2.0	ug/kg	50.0		122	65-135			
Trichloroethene	54.9	2.0	ug/kg	50.0		110	70-125			
Trichlorofluoromethane	61.1	5.0	ug/kg	50.0		122	60-145			
1,2,3-Trichloropropane	55.0	10	ug/kg	50.0		110	60-135			
1,2,4-Trimethylbenzene	56.8	2.0	ug/kg	50.0		114	70-125			
1,3,5-Trimethylbenzene	57.4	2.0	ug/kg	50.0		115	70-125			
Vinyl chloride	59.1	5.0	ug/kg	50.0		118	55-135			
o-Xylene	56.9	2.0	ug/kg	50.0		114	70-125			
m,p-Xylenes	112	2.0	ug/kg	100		112	70-125			
Surrogate: Dibromofluoromethane	*54.7*		*ug/kg*	*50.0*		*109*	*80-125*			
Surrogate: Toluene-d8	*51.0*		*ug/kg*	*50.0*		*102*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*52.2*		*ug/kg*	*50.0*		*104*	*80-120*			

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 7F20002 Extracted: 06/20/07										
Matrix Spike Analyzed: 06/20/2007 (7F20002-MS1)					**Source: IQF1428-01**					
Benzene	52.3	2.0	ug/kg	50.0	ND	105	65-130			
Bromobenzene	52.4	5.0	ug/kg	50.0	ND	105	65-140			
Bromochloromethane	58.8	5.0	ug/kg	50.0	ND	118	65-145			
Bromodichloromethane	57.5	2.0	ug/kg	50.0	ND	115	65-145			
Bromoform	47.6	5.0	ug/kg	50.0	ND	95	50-145			
Bromomethane	60.8	5.0	ug/kg	50.0	ND	122	60-155			
n-Butylbenzene	55.8	5.0	ug/kg	50.0	ND	112	55-145			
sec-Butylbenzene	53.7	5.0	ug/kg	50.0	ND	107	60-135			
tert-Butylbenzene	55.0	5.0	ug/kg	50.0	ND	110	60-140			
Carbon tetrachloride	55.9	5.0	ug/kg	50.0	ND	112	60-145			
Chlorobenzene	52.8	2.0	ug/kg	50.0	ND	106	70-130			
Chloroethane	62.0	5.0	ug/kg	50.0	ND	124	60-150			
Chloroform	55.2	2.0	ug/kg	50.0	ND	110	65-135			
Chloromethane	57.3	5.0	ug/kg	50.0	ND	115	40-145			
2-Chlorotoluene	50.6	5.0	ug/kg	50.0	ND	101	60-135			
4-Chlorotoluene	52.7	5.0	ug/kg	50.0	ND	105	65-135			
Dibromochloromethane	59.7	2.0	ug/kg	50.0	ND	119	60-145			
1,2-Dibromo-3-chloropropane	55.6	5.0	ug/kg	50.0	ND	111	40-150			
1,2-Dibromoethane (EDB)	58.3	2.0	ug/kg	50.0	ND	117	65-140			
Dibromomethane	58.7	2.0	ug/kg	50.0	ND	117	65-140			
1,2-Dichlorobenzene	54.8	2.0	ug/kg	50.0	ND	110	70-130			
1,3-Dichlorobenzene	54.4	2.0	ug/kg	50.0	ND	109	70-130			
1,4-Dichlorobenzene	49.3	2.0	ug/kg	50.0	ND	99	70-130			
Dichlorodifluoromethane	56.1	5.0	ug/kg	50.0	ND	112	30-160			
1,1-Dichloroethane	55.9	2.0	ug/kg	50.0	0.700	110	65-135			
1,2-Dichloroethane	54.7	2.0	ug/kg	50.0	ND	109	60-150			
1,1-Dichloroethene	60.9	5.0	ug/kg	50.0	5.78	110	65-135			
cis-1,2-Dichloroethene	61.4	2.0	ug/kg	50.0	6.06	111	65-135			
trans-1,2-Dichloroethene	58.8	2.0	ug/kg	50.0	ND	118	70-135			
1,2-Dichloropropane	54.1	2.0	ug/kg	50.0	ND	108	65-130			
1,3-Dichloropropane	57.7	2.0	ug/kg	50.0	ND	115	65-140			
2,2-Dichloropropane	62.8	2.0	ug/kg	50.0	ND	126	65-150			
1,1-Dichloropropene	54.3	2.0	ug/kg	50.0	ND	109	65-135			
cis-1,3-Dichloropropene	52.3	2.0	ug/kg	50.0	ND	105	70-135			
trans-1,3-Dichloropropene	54.2	2.0	ug/kg	50.0	ND	108	60-145			

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Attention: Ravi Subramanian

Project ID: Boeing
5000-55353
Report Number: IQF1428

Sampled: 06/15/07
Received: 06/15/07

METHOD BLANK/QC DATA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 7F20002 Extracted: 06/20/07										
Matrix Spike Analyzed: 06/20/2007 (7F20002-MS1)					**Source: IQF1428-01**					
Ethylbenzene	56.3	2.0	ug/kg	50.0	ND	113	70-135			
Hexachlorobutadiene	46.3	5.0	ug/kg	50.0	ND	93	50-145			
Isopropylbenzene	61.7	2.0	ug/kg	50.0	ND	123	70-145			
p-Isopropyltoluene	54.6	2.0	ug/kg	50.0	ND	109	60-140			
Methylene chloride	55.7	20	ug/kg	50.0	ND	111	55-145			
Naphthalene	58.3	5.0	ug/kg	50.0	ND	117	40-150			
n-Propylbenzene	56.6	2.0	ug/kg	50.0	ND	113	65-140			
Styrene	59.1	2.0	ug/kg	50.0	ND	118	70-140			
1,1,1,2-Tetrachloroethane	56.8	5.0	ug/kg	50.0	ND	114	65-145			
1,1,2,2-Tetrachloroethane	55.4	2.0	ug/kg	50.0	ND	111	40-160			
Tetrachloroethene	58.0	2.0	ug/kg	50.0	ND	116	65-135			
Toluene	55.5	2.0	ug/kg	50.0	2.64	106	70-130			
1,2,3-Trichlorobenzene	53.3	5.0	ug/kg	50.0	ND	107	45-145			
1,2,4-Trichlorobenzene	58.2	5.0	ug/kg	50.0	ND	116	50-140			
1,1,1-Trichloroethane	58.4	2.0	ug/kg	50.0	ND	117	65-145			
1,1,2-Trichloroethane	57.5	2.0	ug/kg	50.0	ND	115	65-140			
Trichloroethene	56.2	2.0	ug/kg	50.0	5.10	102	65-140			
Trichlorofluoromethane	61.1	5.0	ug/kg	50.0	ND	122	55-155			
1,2,3-Trichloropropane	53.4	10	ug/kg	50.0	ND	107	50-150			
1,2,4-Trimethylbenzene	56.5	2.0	ug/kg	50.0	ND	113	65-140			
1,3,5-Trimethylbenzene	56.4	2.0	ug/kg	50.0	ND	113	65-135			
Vinyl chloride	59.5	5.0	ug/kg	50.0	ND	119	55-140			
o-Xylene	56.0	2.0	ug/kg	50.0	ND	112	65-130			
m,p-Xylenes	111	2.0	ug/kg	100	ND	111	70-130			
Surrogate: Dibromofluoromethane	*52.2*		*ug/kg*	*50.0*		*104*	*80-125*			
Surrogate: Toluene-d8	*51.3*		*ug/kg*	*50.0*		*103*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*51.1*		*ug/kg*	*50.0*		*102*	*80-120*			

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 7F20002 Extracted: 06/20/07										
Matrix Spike Dup Analyzed: 06/20/2007 (7F20002-MSD1)					**Source: IQF1428-01**					
Benzene	48.9	2.0	ug/kg	49.8	ND	98	65-130	7	20	
Bromobenzene	49.2	5.0	ug/kg	49.8	ND	99	65-140	6	25	
Bromochloromethane	55.6	5.0	ug/kg	49.8	ND	112	65-145	5	25	
Bromodichloromethane	53.6	2.0	ug/kg	49.8	ND	108	65-145	7	20	
Bromoform	47.2	5.0	ug/kg	49.8	ND	95	50-145	1	30	
Bromomethane	54.7	5.0	ug/kg	49.8	ND	110	60-155	11	25	
n-Butylbenzene	50.9	5.0	ug/kg	49.8	ND	102	55-145	9	30	
sec-Butylbenzene	49.5	5.0	ug/kg	49.8	ND	99	60-135	8	25	
tert-Butylbenzene	50.7	5.0	ug/kg	49.8	ND	102	60-140	8	25	
Carbon tetrachloride	52.1	5.0	ug/kg	49.8	ND	105	60-145	7	25	
Chlorobenzene	49.7	2.0	ug/kg	49.8	ND	100	70-130	6	25	
Chloroethane	56.0	5.0	ug/kg	49.8	ND	112	60-150	10	25	
Chloroform	51.6	2.0	ug/kg	49.8	ND	104	65-135	7	20	
Chloromethane	49.5	5.0	ug/kg	49.8	ND	99	40-145	15	25	
2-Chlorotoluene	47.3	5.0	ug/kg	49.8	ND	95	60-135	7	25	
4-Chlorotoluene	48.6	5.0	ug/kg	49.8	ND	98	65-135	8	25	
Dibromochloromethane	56.7	2.0	ug/kg	49.8	ND	114	60-145	5	25	
1,2-Dibromo-3-chloropropane	53.4	5.0	ug/kg	49.8	ND	107	40-150	4	30	
1,2-Dibromoethane (EDB)	55.3	2.0	ug/kg	49.8	ND	111	65-140	5	25	
Dibromomethane	56.2	2.0	ug/kg	49.8	ND	113	65-140	4	25	
1,2-Dichlorobenzene	51.2	2.0	ug/kg	49.8	ND	103	70-130	7	25	
1,3-Dichlorobenzene	50.5	2.0	ug/kg	49.8	ND	101	70-130	7	25	
1,4-Dichlorobenzene	45.6	2.0	ug/kg	49.8	ND	92	70-130	8	25	
Dichlorodifluoromethane	35.1	5.0	ug/kg	49.8	ND	70	30-160	46	35	*R*
1,1-Dichloroethane	52.6	2.0	ug/kg	49.8	0.700	104	65-135	6	25	
1,2-Dichloroethane	53.4	2.0	ug/kg	49.8	ND	107	60-150	2	25	
1,1-Dichloroethene	57.0	5.0	ug/kg	49.8	5.78	103	65-135	7	25	
cis-1,2-Dichloroethene	60.1	2.0	ug/kg	49.8	6.06	109	65-135	2	25	
trans-1,2-Dichloroethene	54.0	2.0	ug/kg	49.8	ND	108	70-135	9	25	
1,2-Dichloropropane	51.0	2.0	ug/kg	49.8	ND	102	65-130	6	20	
1,3-Dichloropropane	54.1	2.0	ug/kg	49.8	ND	109	65-140	6	25	
2,2-Dichloropropane	57.4	2.0	ug/kg	49.8	ND	115	65-150	9	25	
1,1-Dichloropropene	49.6	2.0	ug/kg	49.8	ND	100	65-135	9	20	
cis-1,3-Dichloropropene	50.0	2.0	ug/kg	49.8	ND	100	70-135	4	25	
trans-1,3-Dichloropropene	52.2	2.0	ug/kg	49.8	ND	105	60-145	4	25	

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METHOD BLANK/QC DATA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 7F20002 Extracted: 06/20/07										
Matrix Spike Dup Analyzed: 06/20/2007 (7F20002-MSD1)					**Source: IQF1428-01**					
Ethylbenzene	52.5	2.0	ug/kg	49.8	ND	105	70-135	7	25	
Hexachlorobutadiene	42.6	5.0	ug/kg	49.8	ND	86	50-145	8	35	
Isopropylbenzene	57.2	2.0	ug/kg	49.8	ND	115	70-145	7	25	
p-Isopropyltoluene	50.7	2.0	ug/kg	49.8	ND	102	60-140	7	25	
Methylene chloride	50.8	20	ug/kg	49.8	ND	102	55-145	9	25	
Naphthalene	55.1	5.0	ug/kg	49.8	ND	111	40-150	6	40	
n-Propylbenzene	51.8	2.0	ug/kg	49.8	ND	104	65-140	9	25	
Styrene	54.9	2.0	ug/kg	49.8	ND	110	70-140	7	25	
1,1,1,2-Tetrachloroethane	53.3	5.0	ug/kg	49.8	ND	107	65-145	6	20	
1,1,2,2-Tetrachloroethane	53.1	2.0	ug/kg	49.8	ND	107	40-160	4	30	
Tetrachloroethene	53.0	2.0	ug/kg	49.8	ND	106	65-135	9	25	
Toluene	52.4	2.0	ug/kg	49.8	2.64	100	70-130	6	20	
1,2,3-Trichlorobenzene	49.7	5.0	ug/kg	49.8	ND	100	45-145	7	30	
1,2,4-Trichlorobenzene	52.7	5.0	ug/kg	49.8	ND	106	50-140	10	30	
1,1,1-Trichloroethane	53.8	2.0	ug/kg	49.8	ND	108	65-145	8	20	
1,1,2-Trichloroethane	55.9	2.0	ug/kg	49.8	ND	112	65-140	3	30	
Trichloroethene	55.4	2.0	ug/kg	49.8	5.10	101	65-140	2	25	
Trichlorofluoromethane	54.1	5.0	ug/kg	49.8	ND	109	55-155	12	25	
1,2,3-Trichloropropane	53.4	10	ug/kg	49.8	ND	107	50-150	0	30	
1,2,4-Trimethylbenzene	52.4	2.0	ug/kg	49.8	ND	105	65-140	8	25	
1,3,5-Trimethylbenzene	51.9	2.0	ug/kg	49.8	ND	104	65-135	8	25	
Vinyl chloride	50.5	5.0	ug/kg	49.8	ND	101	55-140	16	30	
o-Xylene	52.2	2.0	ug/kg	49.8	ND	105	65-130	7	25	
m,p-Xylenes	103	2.0	ug/kg	99.6	ND	103	70-130	8	25	
Surrogate: Dibromofluoromethane	*53.5*		*ug/kg*	*49.8*		*107*	*80-125*			
Surrogate: Toluene-d8	*51.2*		*ug/kg*	*49.8*		*103*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*51.4*		*ug/kg*	*49.8*		*103*	*80-120*			

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Michele Chamberlin
Project Manager

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Camp, Dresser & McKee
18581 Teller Avenue, #200
Irvine, CA 92612
Attention: Ravi Subramanian

Project ID: Boeing
5000-55353
Report Number: IQF1428

Sampled: 06/15/07
Received: 06/15/07

METHOD BLANK/QC DATA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 7F24002 Extracted: 06/24/07										
Blank Analyzed: 06/24/2007 (7F24002-BLK1)										
Benzene	ND	2.0	ug/l							
Bromobenzene	ND	5.0	ug/l							
Bromochloromethane	ND	5.0	ug/l							
Bromodichloromethane	ND	2.0	ug/l							
Bromoform	ND	5.0	ug/l							
Bromomethane	ND	5.0	ug/l							
n-Butylbenzene	ND	5.0	ug/l							
sec-Butylbenzene	ND	5.0	ug/l							
tert-Butylbenzene	ND	5.0	ug/l							
Carbon tetrachloride	ND	5.0	ug/l							
Chlorobenzene	ND	2.0	ug/l							
Chloroethane	ND	5.0	ug/l							
Chloroform	ND	2.0	ug/l							
Chloromethane	ND	5.0	ug/l							
2-Chlorotoluene	ND	5.0	ug/l							
4-Chlorotoluene	ND	5.0	ug/l							
Dibromochloromethane	ND	2.0	ug/l							
1,2-Dibromo-3-chloropropane	ND	5.0	ug/l							
1,2-Dibromoethane (EDB)	ND	2.0	ug/l							
Dibromomethane	ND	2.0	ug/l							
1,2-Dichlorobenzene	ND	2.0	ug/l							
1,3-Dichlorobenzene	ND	2.0	ug/l							
1,4-Dichlorobenzene	ND	2.0	ug/l							
Dichlorodifluoromethane	ND	5.0	ug/l							
1,1-Dichloroethane	ND	2.0	ug/l							
1,2-Dichloroethane	ND	2.0	ug/l							
1,1-Dichloroethene	ND	5.0	ug/l							
cis-1,2-Dichloroethene	ND	2.0	ug/l							
trans-1,2-Dichloroethene	ND	2.0	ug/l							
1,2-Dichloropropane	ND	2.0	ug/l							
1,3-Dichloropropane	ND	2.0	ug/l							
2,2-Dichloropropane	ND	2.0	ug/l							
1,1-Dichloropropene	ND	2.0	ug/l							
cis-1,3-Dichloropropene	ND	2.0	ug/l							
trans-1,3-Dichloropropene	ND	2.0	ug/l							

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Project Manager

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Project ID: Boeing
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METHOD BLANK/QC DATA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 7F24002 Extracted: 06/24/07										
Blank Analyzed: 06/24/2007 (7F24002-BLK1)										
Ethylbenzene	ND	2.0	ug/l							
Hexachlorobutadiene	ND	5.0	ug/l							
Isopropylbenzene	ND	2.0	ug/l							
p-Isopropyltoluene	ND	2.0	ug/l							
Methylene chloride	ND	5.0	ug/l							
Naphthalene	ND	5.0	ug/l							
n-Propylbenzene	ND	2.0	ug/l							
Styrene	ND	2.0	ug/l							
1,1,1,2-Tetrachloroethane	ND	5.0	ug/l							
1,1,2,2-Tetrachloroethane	ND	2.0	ug/l							
Tetrachloroethene	ND	2.0	ug/l							
Toluene	ND	2.0	ug/l							
1,2,3-Trichlorobenzene	ND	5.0	ug/l							
1,2,4-Trichlorobenzene	ND	5.0	ug/l							
1,1,1-Trichloroethane	ND	2.0	ug/l							
1,1,2-Trichloroethane	ND	2.0	ug/l							
Trichloroethene	ND	2.0	ug/l							
Trichlorofluoromethane	ND	5.0	ug/l							
1,2,3-Trichloropropane	ND	10	ug/l							
1,2,4-Trimethylbenzene	ND	2.0	ug/l							
1,3,5-Trimethylbenzene	ND	2.0	ug/l							
Vinyl chloride	ND	5.0	ug/l							
o-Xylene	ND	2.0	ug/l							
m,p-Xylenes	ND	2.0	ug/l							
Surrogate: Dibromofluoromethane	*24.7*		*ug/l*	*25.0*		*99*	*80-120*			
Surrogate: Toluene-d8	*24.2*		*ug/l*	*25.0*		*97*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*24.6*		*ug/l*	*25.0*		*99*	*80-120*			

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METHOD BLANK/QC DATA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 7F24002 Extracted: 06/24/07										
LCS Analyzed: 06/24/2007 (7F24002-BS1)										
Benzene	24.3	2.0	ug/l	25.0		97	70-120			
Bromobenzene	24.6	5.0	ug/l	25.0		98	75-120			
Bromochloromethane	25.2	5.0	ug/l	25.0		101	70-130			
Bromodichloromethane	27.4	2.0	ug/l	25.0		110	70-135			
Bromoform	23.3	5.0	ug/l	25.0		93	55-130			
Bromomethane	29.1	5.0	ug/l	25.0		116	65-140			
n-Butylbenzene	24.4	5.0	ug/l	25.0		98	70-130			
sec-Butylbenzene	25.1	5.0	ug/l	25.0		100	70-125			
tert-Butylbenzene	25.1	5.0	ug/l	25.0		100	70-125			
Carbon tetrachloride	28.0	5.0	ug/l	25.0		112	65-140			
Chlorobenzene	23.6	2.0	ug/l	25.0		94	75-120			
Chloroethane	27.6	5.0	ug/l	25.0		110	60-140			
Chloroform	26.9	2.0	ug/l	25.0		107	70-130			
Chloromethane	28.1	5.0	ug/l	25.0		112	50-140			
2-Chlorotoluene	24.4	5.0	ug/l	25.0		98	70-125			
4-Chlorotoluene	25.0	5.0	ug/l	25.0		100	75-125			
Dibromochloromethane	28.4	2.0	ug/l	25.0		114	70-140			
1,2-Dibromo-3-chloropropane	25.7	5.0	ug/l	25.0		103	50-135			
1,2-Dibromoethane (EDB)	27.4	2.0	ug/l	25.0		110	75-125			
Dibromomethane	26.3	2.0	ug/l	25.0		105	70-125			
1,2-Dichlorobenzene	23.9	2.0	ug/l	25.0		96	75-120			
1,3-Dichlorobenzene	24.4	2.0	ug/l	25.0		98	75-120			
1,4-Dichlorobenzene	22.8	2.0	ug/l	25.0		91	75-120			
Dichlorodifluoromethane	27.4	5.0	ug/l	25.0		110	35-155			
1,1-Dichloroethane	27.0	2.0	ug/l	25.0		108	70-125			
1,2-Dichloroethane	27.5	2.0	ug/l	25.0		110	60-140			
1,1-Dichloroethene	26.5	5.0	ug/l	25.0		106	70-125			
cis-1,2-Dichloroethene	25.9	2.0	ug/l	25.0		104	70-125			
trans-1,2-Dichloroethene	25.9	2.0	ug/l	25.0		104	70-125			
1,2-Dichloropropane	24.6	2.0	ug/l	25.0		99	70-125			
1,3-Dichloropropane	25.3	2.0	ug/l	25.0		101	70-120			
2,2-Dichloropropane	28.4	2.0	ug/l	25.0		114	65-140			
1,1-Dichloropropene	24.4	2.0	ug/l	25.0		98	75-130			
cis-1,3-Dichloropropene	24.1	2.0	ug/l	25.0		96	75-125			
trans-1,3-Dichloropropene	25.2	2.0	ug/l	25.0		101	70-125			

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Attention: Ravi Subramanian

Project ID: Boeing
5000-55353
Report Number: IQF1428

Sampled: 06/15/07
Received: 06/15/07

METHOD BLANK/QC DATA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 7F24002 Extracted: 06/24/07										
LCS Analyzed: 06/24/2007 (7F24002-BS1)										
Ethylbenzene	25.2	2.0	ug/l	25.0		101	75-125			
Hexachlorobutadiene	25.4	5.0	ug/l	25.0		102	65-135			
Isopropylbenzene	28.7	2.0	ug/l	25.0		115	75-130			
p-Isopropyltoluene	25.0	2.0	ug/l	25.0		100	75-125			
Methylene chloride	25.4	5.0	ug/l	25.0		102	55-130			
Naphthalene	24.1	5.0	ug/l	25.0		96	55-135			
n-Propylbenzene	25.8	2.0	ug/l	25.0		103	75-130			
Styrene	25.1	2.0	ug/l	25.0		100	75-130			
1,1,1,2-Tetrachloroethane	25.8	5.0	ug/l	25.0		103	70-130			
1,1,2,2-Tetrachloroethane	25.6	2.0	ug/l	25.0		103	55-130			
Tetrachloroethene	24.9	2.0	ug/l	25.0		100	70-125			
Toluene	24.6	2.0	ug/l	25.0		98	70-120			
1,2,3-Trichlorobenzene	24.2	5.0	ug/l	25.0		97	65-125			
1,2,4-Trichlorobenzene	24.5	5.0	ug/l	25.0		98	70-135			
1,1,1-Trichloroethane	28.0	2.0	ug/l	25.0		112	65-135			
1,1,2-Trichloroethane	24.5	2.0	ug/l	25.0		98	70-125			
Trichloroethene	23.5	2.0	ug/l	25.0		94	70-125			
Trichlorofluoromethane	30.8	5.0	ug/l	25.0		123	65-145			
1,2,3-Trichloropropane	26.2	10	ug/l	25.0		105	60-130			
1,2,4-Trimethylbenzene	24.6	2.0	ug/l	25.0		99	75-125			
1,3,5-Trimethylbenzene	25.8	2.0	ug/l	25.0		103	75-125			
Vinyl chloride	28.3	5.0	ug/l	25.0		113	55-135			
o-Xylene	25.0	2.0	ug/l	25.0		100	75-125			
m,p-Xylenes	48.1	2.0	ug/l	50.0		96	75-125			
Surrogate: Dibromofluoromethane	*26.7*		*ug/l*	*25.0*		*107*	*80-120*			
Surrogate: Toluene-d8	*24.9*		*ug/l*	*25.0*		*100*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*25.4*		*ug/l*	*25.0*		*101*	*80-120*			

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 7F24002 Extracted: 06/24/07										
Matrix Spike Analyzed: 06/24/2007 (7F24002-MS1)					**Source: IQF1498-06**					
Benzene	23.4	2.0	ug/l	25.0	ND	94	65-125			
Bromobenzene	23.5	5.0	ug/l	25.0	ND	94	70-125			
Bromochloromethane	23.8	5.0	ug/l	25.0	ND	95	65-135			
Bromodichloromethane	25.9	2.0	ug/l	25.0	ND	104	70-135			
Bromoform	22.6	5.0	ug/l	25.0	ND	91	55-135			
Bromomethane	26.8	5.0	ug/l	25.0	ND	107	55-145			
n-Butylbenzene	24.8	5.0	ug/l	25.0	ND	99	65-135			
sec-Butylbenzene	24.5	5.0	ug/l	25.0	ND	98	70-125			
tert-Butylbenzene	24.7	5.0	ug/l	25.0	ND	99	65-130			
Carbon tetrachloride	26.8	5.0	ug/l	25.0	ND	107	65-140			
Chlorobenzene	22.4	2.0	ug/l	25.0	ND	90	75-125			
Chloroethane	26.0	5.0	ug/l	25.0	ND	104	55-140			
Chloroform	25.5	2.0	ug/l	25.0	ND	102	65-135			
Chloromethane	25.9	5.0	ug/l	25.0	ND	104	45-145			
2-Chlorotoluene	23.7	5.0	ug/l	25.0	ND	95	65-135			
4-Chlorotoluene	24.1	5.0	ug/l	25.0	ND	97	70-135			
Dibromochloromethane	26.0	2.0	ug/l	25.0	ND	104	65-140			
1,2-Dibromo-3-chloropropane	25.9	5.0	ug/l	25.0	ND	104	45-145			
1,2-Dibromoethane (EDB)	25.6	2.0	ug/l	25.0	ND	102	70-130			
Dibromomethane	25.1	2.0	ug/l	25.0	ND	100	65-135			
1,2-Dichlorobenzene	23.2	2.0	ug/l	25.0	ND	93	75-125			
1,3-Dichlorobenzene	23.8	2.0	ug/l	25.0	ND	95	75-125			
1,4-Dichlorobenzene	22.3	2.0	ug/l	25.0	ND	89	75-125			
Dichlorodifluoromethane	24.9	5.0	ug/l	25.0	ND	100	25-155			
1,1-Dichloroethane	25.3	2.0	ug/l	25.0	ND	101	65-130			
1,2-Dichloroethane	26.0	2.0	ug/l	25.0	ND	104	60-140			
1,1-Dichloroethene	24.7	5.0	ug/l	25.0	ND	99	60-130			
cis-1,2-Dichloroethene	24.4	2.0	ug/l	25.0	ND	97	65-130			
trans-1,2-Dichloroethene	23.5	2.0	ug/l	25.0	ND	94	65-130			
1,2-Dichloropropane	23.8	2.0	ug/l	25.0	ND	95	65-130			
1,3-Dichloropropane	24.0	2.0	ug/l	25.0	ND	96	65-135			
2,2-Dichloropropane	28.6	2.0	ug/l	25.0	ND	114	60-145			
1,1-Dichloropropene	23.5	2.0	ug/l	25.0	ND	94	70-135			
cis-1,3-Dichloropropene	23.1	2.0	ug/l	25.0	ND	92	70-130			
trans-1,3-Dichloropropene	23.9	2.0	ug/l	25.0	ND	96	65-135			

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 7F24002 Extracted: 06/24/07										
Matrix Spike Analyzed: 06/24/2007 (7F24002-MS1)					**Source: IQF1498-06**					
Ethylbenzene	24.3	2.0	ug/l	25.0	ND	97	65-130			
Hexachlorobutadiene	26.8	5.0	ug/l	25.0	ND	107	60-135			
Isopropylbenzene	27.8	2.0	ug/l	25.0	ND	111	70-135			
p-Isopropyltoluene	24.6	2.0	ug/l	25.0	ND	98	65-130			
Methylene chloride	22.7	5.0	ug/l	25.0	ND	91	50-135			
Naphthalene	24.5	5.0	ug/l	25.0	ND	98	50-140			
n-Propylbenzene	25.4	2.0	ug/l	25.0	ND	102	70-135			
Styrene	21.8	2.0	ug/l	25.0	ND	87	50-145			
1,1,1,2-Tetrachloroethane	24.3	5.0	ug/l	25.0	ND	97	65-140			
1,1,2,2-Tetrachloroethane	24.4	2.0	ug/l	25.0	ND	98	55-135			
Tetrachloroethene	24.4	2.0	ug/l	25.0	ND	98	65-130			
Toluene	23.7	2.0	ug/l	25.0	ND	95	70-125			
1,2,3-Trichlorobenzene	25.1	5.0	ug/l	25.0	ND	101	60-135			
1,2,4-Trichlorobenzene	25.9	5.0	ug/l	25.0	ND	104	65-135			
1,1,1-Trichloroethane	26.3	2.0	ug/l	25.0	ND	105	65-140			
1,1,2-Trichloroethane	23.4	2.0	ug/l	25.0	ND	93	65-130			
Trichloroethene	23.3	2.0	ug/l	25.0	ND	93	65-125			
Trichlorofluoromethane	29.2	5.0	ug/l	25.0	ND	117	60-145			
1,2,3-Trichloropropane	24.6	10	ug/l	25.0	ND	98	55-135			
1,2,4-Trimethylbenzene	23.1	2.0	ug/l	25.0	ND	93	55-135			
1,3,5-Trimethylbenzene	24.6	2.0	ug/l	25.0	ND	99	70-130			
Vinyl chloride	25.7	5.0	ug/l	25.0	ND	103	45-140			
o-Xylene	23.3	2.0	ug/l	25.0	ND	93	65-125			
m,p-Xylenes	46.1	2.0	ug/l	50.0	ND	92	65-130			
Surrogate: Dibromofluoromethane	*26.0*		*ug/l*	*25.0*		*104*	*80-120*			
Surrogate: Toluene-d8	*24.8*		*ug/l*	*25.0*		*99*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*25.5*		*ug/l*	*25.0*		*102*	*80-120*			

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 7F24002 Extracted: 06/24/07										
Matrix Spike Dup Analyzed: 06/24/2007 (7F24002-MSD1)					**Source: IQF1498-06**					
Benzene	24.4	2.0	ug/l	25.0	ND	98	65-125	4	20	
Bromobenzene	23.9	5.0	ug/l	25.0	ND	95	70-125	1	20	
Bromochloromethane	25.0	5.0	ug/l	25.0	ND	100	65-135	5	25	
Bromodichloromethane	27.2	2.0	ug/l	25.0	ND	109	70-135	5	20	
Bromoform	24.1	5.0	ug/l	25.0	ND	96	55-135	6	25	
Bromomethane	28.8	5.0	ug/l	25.0	ND	115	55-145	7	25	
n-Butylbenzene	25.4	5.0	ug/l	25.0	ND	102	65-135	2	20	
sec-Butylbenzene	25.1	5.0	ug/l	25.0	ND	100	70-125	2	20	
tert-Butylbenzene	25.3	5.0	ug/l	25.0	ND	101	65-130	3	20	
Carbon tetrachloride	27.9	5.0	ug/l	25.0	ND	112	65-140	4	25	
Chlorobenzene	23.2	2.0	ug/l	25.0	ND	93	75-125	3	20	
Chloroethane	28.1	5.0	ug/l	25.0	ND	112	55-140	8	25	
Chloroform	26.4	2.0	ug/l	25.0	ND	106	65-135	4	20	
Chloromethane	28.2	5.0	ug/l	25.0	ND	113	45-145	9	25	
2-Chlorotoluene	24.6	5.0	ug/l	25.0	ND	98	65-135	3	20	
4-Chlorotoluene	25.0	5.0	ug/l	25.0	ND	100	70-135	3	20	
Dibromochloromethane	27.7	2.0	ug/l	25.0	ND	111	65-140	7	25	
1,2-Dibromo-3-chloropropane	27.1	5.0	ug/l	25.0	ND	109	45-145	5	30	
1,2-Dibromoethane (EDB)	26.4	2.0	ug/l	25.0	ND	105	70-130	3	25	
Dibromomethane	26.2	2.0	ug/l	25.0	ND	105	65-135	4	25	
1,2-Dichlorobenzene	24.0	2.0	ug/l	25.0	ND	96	75-125	4	20	
1,3-Dichlorobenzene	24.8	2.0	ug/l	25.0	ND	99	75-125	4	20	
1,4-Dichlorobenzene	22.7	2.0	ug/l	25.0	ND	91	75-125	2	20	
Dichlorodifluoromethane	27.4	5.0	ug/l	25.0	ND	109	25-155	9	30	
1,1-Dichloroethane	26.2	2.0	ug/l	25.0	ND	105	65-130	3	20	
1,2-Dichloroethane	27.0	2.0	ug/l	25.0	ND	108	60-140	4	20	
1,1-Dichloroethene	25.1	5.0	ug/l	25.0	ND	101	60-130	2	20	
cis-1,2-Dichloroethene	25.4	2.0	ug/l	25.0	ND	102	65-130	4	20	
trans-1,2-Dichloroethene	25.2	2.0	ug/l	25.0	ND	101	65-130	7	20	
1,2-Dichloropropane	24.6	2.0	ug/l	25.0	ND	99	65-130	3	20	
1,3-Dichloropropane	24.7	2.0	ug/l	25.0	ND	99	65-135	3	25	
2,2-Dichloropropane	28.8	2.0	ug/l	25.0	ND	115	60-145	1	25	
1,1-Dichloropropene	24.2	2.0	ug/l	25.0	ND	97	70-135	3	20	
cis-1,3-Dichloropropene	23.9	2.0	ug/l	25.0	ND	96	70-130	4	20	
trans-1,3-Dichloropropene	24.9	2.0	ug/l	25.0	ND	99	65-135	4	25	

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Michele Chamberlin
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18581 Teller Avenue, #200
Irvine, CA 92612
Attention: Ravi Subramanian

Project ID: Boeing
5000-55353
Report Number: IQF1428

Sampled: 06/15/07
Received: 06/15/07

METHOD BLANK/QC DATA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 7F24002 Extracted: 06/24/07										
Matrix Spike Dup Analyzed: 06/24/2007 (7F24002-MSD1)					**Source: IQF1498-06**					
Ethylbenzene	25.2	2.0	ug/l	25.0	ND	101	65-130	4	20	
Hexachlorobutadiene	26.6	5.0	ug/l	25.0	ND	107	60-135	0	20	
Isopropylbenzene	28.5	2.0	ug/l	25.0	ND	114	70-135	3	20	
p-Isopropyltoluene	25.2	2.0	ug/l	25.0	ND	101	65-130	3	20	
Methylene chloride	23.7	5.0	ug/l	25.0	ND	95	50-135	4	20	
Naphthalene	24.9	5.0	ug/l	25.0	ND	99	50-140	1	30	
n-Propylbenzene	26.2	2.0	ug/l	25.0	ND	105	70-135	3	20	
Styrene	23.8	2.0	ug/l	25.0	ND	95	50-145	9	30	
1,1,1,2-Tetrachloroethane	25.9	5.0	ug/l	25.0	ND	104	65-140	6	20	
1,1,2,2-Tetrachloroethane	24.9	2.0	ug/l	25.0	ND	100	55-135	2	30	
Tetrachloroethene	25.0	2.0	ug/l	25.0	ND	100	65-130	2	20	
Toluene	24.6	2.0	ug/l	25.0	ND	98	70-125	4	20	
1,2,3-Trichlorobenzene	24.7	5.0	ug/l	25.0	ND	99	60-135	2	20	
1,2,4-Trichlorobenzene	25.7	5.0	ug/l	25.0	ND	103	65-135	1	20	
1,1,1-Trichloroethane	27.2	2.0	ug/l	25.0	ND	109	65-140	4	20	
1,1,2-Trichloroethane	24.8	2.0	ug/l	25.0	ND	99	65-130	6	25	
Trichloroethene	23.7	2.0	ug/l	25.0	ND	95	65-125	2	20	
Trichlorofluoromethane	30.6	5.0	ug/l	25.0	ND	123	60-145	5	25	
1,2,3-Trichloropropane	25.9	10	ug/l	25.0	ND	104	55-135	5	30	
1,2,4-Trimethylbenzene	24.0	2.0	ug/l	25.0	ND	96	55-135	4	25	
1,3,5-Trimethylbenzene	25.5	2.0	ug/l	25.0	ND	102	70-130	3	20	
Vinyl chloride	28.5	5.0	ug/l	25.0	ND	114	45-140	10	30	
o-Xylene	24.7	2.0	ug/l	25.0	ND	99	65-125	6	20	
m,p-Xylenes	48.3	2.0	ug/l	50.0	ND	97	65-130	5	25	
Surrogate: Dibromofluoromethane	*25.7*		*ug/l*	*25.0*		*103*	*80-120*			
Surrogate: Toluene-d8	*24.8*		*ug/l*	*25.0*		*99*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*25.0*		*ug/l*	*25.0*		*100*	*80-120*			

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Project ID: Boeing
5000-55353
Report Number: IQF1428

Sampled: 06/15/07
Received: 06/15/07

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5035/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 7F19007 Extracted: 06/19/07										
Blank Analyzed: 06/19/2007 (7F19007-BLK1)										
Benzene	ND	2.0	ug/kg							
Bromobenzene	ND	5.0	ug/kg							
Bromochloromethane	ND	5.0	ug/kg							
Bromodichloromethane	ND	2.0	ug/kg							
Bromoform	ND	5.0	ug/kg							
Bromomethane	ND	5.0	ug/kg							
n-Butylbenzene	ND	5.0	ug/kg							
sec-Butylbenzene	ND	5.0	ug/kg							
tert-Butylbenzene	ND	5.0	ug/kg							
Carbon tetrachloride	ND	5.0	ug/kg							
Chlorobenzene	ND	2.0	ug/kg							
Chloroethane	ND	5.0	ug/kg							
Chloroform	ND	2.0	ug/kg							
Chloromethane	ND	5.0	ug/kg							
2-Chlorotoluene	ND	5.0	ug/kg							
4-Chlorotoluene	ND	5.0	ug/kg							
Dibromochloromethane	ND	2.0	ug/kg							
1,2-Dibromo-3-chloropropane	ND	5.0	ug/kg							
1,2-Dibromoethane (EDB)	ND	2.0	ug/kg							
Dibromomethane	ND	2.0	ug/kg							
1,2-Dichlorobenzene	ND	2.0	ug/kg							
1,3-Dichlorobenzene	ND	2.0	ug/kg							
1,4-Dichlorobenzene	ND	2.0	ug/kg							
Dichlorodifluoromethane	ND	5.0	ug/kg							
1,1-Dichloroethane	ND	2.0	ug/kg							
1,2-Dichloroethane	ND	2.0	ug/kg							
1,1-Dichloroethene	ND	5.0	ug/kg							
cis-1,2-Dichloroethene	ND	2.0	ug/kg							
trans-1,2-Dichloroethene	ND	2.0	ug/kg							
1,2-Dichloropropane	ND	2.0	ug/kg							
1,3-Dichloropropane	ND	2.0	ug/kg							
2,2-Dichloropropane	ND	2.0	ug/kg							
1,1-Dichloropropene	ND	2.0	ug/kg							
cis-1,3-Dichloropropene	ND	2.0	ug/kg							
trans-1,3-Dichloropropene	ND	2.0	ug/kg							

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Project Manager

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Project ID: Boeing
5000-55353
Report Number: IQF1428

Sampled: 06/15/07
Received: 06/15/07

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5035/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 7F19007 Extracted: 06/19/07										
Blank Analyzed: 06/19/2007 (7F19007-BLK1)										
Ethylbenzene	ND	2.0	ug/kg							
Hexachlorobutadiene	ND	5.0	ug/kg							
Isopropylbenzene	ND	2.0	ug/kg							
p-Isopropyltoluene	ND	2.0	ug/kg							
Methylene chloride	ND	20	ug/kg							
Naphthalene	ND	5.0	ug/kg							
n-Propylbenzene	ND	2.0	ug/kg							
Styrene	ND	2.0	ug/kg							
1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg							
1,1,2,2-Tetrachloroethane	ND	2.0	ug/kg							
Tetrachloroethene	ND	2.0	ug/kg							
Toluene	ND	2.0	ug/kg							
1,2,3-Trichlorobenzene	ND	5.0	ug/kg							
1,2,4-Trichlorobenzene	ND	5.0	ug/kg							
1,1,1-Trichloroethane	ND	2.0	ug/kg							
1,1,2-Trichloroethane	ND	2.0	ug/kg							
Trichloroethene	ND	2.0	ug/kg							
Trichlorofluoromethane	ND	5.0	ug/kg							
1,2,3-Trichloropropane	ND	10	ug/kg							
1,2,4-Trimethylbenzene	ND	2.0	ug/kg							
1,3,5-Trimethylbenzene	ND	2.0	ug/kg							
Vinyl chloride	ND	5.0	ug/kg							
o-Xylene	ND	2.0	ug/kg							
m,p-Xylenes	ND	2.0	ug/kg							
Surrogate: Dibromofluoromethane	*53.6*		*ug/kg*	*50.0*		*107*	*80-125*			
Surrogate: Toluene-d8	*51.4*		*ug/kg*	*50.0*		*103*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*49.2*		*ug/kg*	*50.0*		*98*	*80-120*			

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METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5035/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 7F19007 Extracted: 06/19/07										
LCS Analyzed: 06/19/2007 (7F19007-BS1)										
Benzene	49.1	2.0	ug/kg	50.0		98	65-120			
Bromobenzene	48.8	5.0	ug/kg	50.0		98	75-120			
Bromochloromethane	56.8	5.0	ug/kg	50.0		114	70-135			
Bromodichloromethane	55.2	2.0	ug/kg	50.0		110	70-135			
Bromoform	48.4	5.0	ug/kg	50.0		97	55-135			
Bromomethane	58.1	5.0	ug/kg	50.0		116	60-145			
n-Butylbenzene	51.9	5.0	ug/kg	50.0		104	70-130			
sec-Butylbenzene	48.9	5.0	ug/kg	50.0		98	70-125			
tert-Butylbenzene	49.7	5.0	ug/kg	50.0		99	70-125			
Carbon tetrachloride	53.0	5.0	ug/kg	50.0		106	65-140			
Chlorobenzene	48.9	2.0	ug/kg	50.0		98	75-120			
Chloroethane	57.2	5.0	ug/kg	50.0		114	60-140			
Chloroform	51.6	2.0	ug/kg	50.0		103	70-130			
Chloromethane	54.1	5.0	ug/kg	50.0		108	45-145			
2-Chlorotoluene	46.0	5.0	ug/kg	50.0		92	70-125			
4-Chlorotoluene	48.3	5.0	ug/kg	50.0		97	75-125			
Dibromochloromethane	57.3	2.0	ug/kg	50.0		115	65-140			
1,2-Dibromo-3-chloropropane	56.8	5.0	ug/kg	50.0		114	50-135			
1,2-Dibromoethane (EDB)	56.0	2.0	ug/kg	50.0		112	70-130			
Dibromomethane	58.0	2.0	ug/kg	50.0		116	70-130			
1,2-Dichlorobenzene	51.2	2.0	ug/kg	50.0		102	75-120			
1,3-Dichlorobenzene	50.5	2.0	ug/kg	50.0		101	75-125			
1,4-Dichlorobenzene	45.5	2.0	ug/kg	50.0		91	75-120			
Dichlorodifluoromethane	58.5	5.0	ug/kg	50.0		117	35-160			
1,1-Dichloroethane	51.2	2.0	ug/kg	50.0		102	70-130			
1,2-Dichloroethane	53.8	2.0	ug/kg	50.0		108	60-140			
1,1-Dichloroethene	51.5	5.0	ug/kg	50.0		103	70-125			
cis-1,2-Dichloroethene	51.8	2.0	ug/kg	50.0		104	70-125			
trans-1,2-Dichloroethene	53.5	2.0	ug/kg	50.0		107	70-125			
1,2-Dichloropropane	51.4	2.0	ug/kg	50.0		103	70-130			
1,3-Dichloropropane	54.1	2.0	ug/kg	50.0		108	70-125			
2,2-Dichloropropane	54.5	2.0	ug/kg	50.0		109	60-145			
1,1-Dichloropropene	50.8	2.0	ug/kg	50.0		102	70-130			
cis-1,3-Dichloropropene	51.3	2.0	ug/kg	50.0		103	75-125			
trans-1,3-Dichloropropene	54.0	2.0	ug/kg	50.0		108	70-135			

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Project ID: Boeing
5000-55353
Report Number: IQF1428

Sampled: 06/15/07
Received: 06/15/07

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5035/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 7F19007 Extracted: 06/19/07										
LCS Analyzed: 06/19/2007 (7F19007-BS1)										
Ethylbenzene	51.3	2.0	ug/kg	50.0		103	70-125			
Hexachlorobutadiene	50.5	5.0	ug/kg	50.0		101	60-135			
Isopropylbenzene	55.4	2.0	ug/kg	50.0		111	75-130			
p-Isopropyltoluene	50.2	2.0	ug/kg	50.0		100	75-125			
Methylene chloride	50.9	20	ug/kg	50.0		102	55-135			
Naphthalene	57.4	5.0	ug/kg	50.0		115	55-135			
n-Propylbenzene	50.4	2.0	ug/kg	50.0		101	70-130			
Styrene	55.1	2.0	ug/kg	50.0		110	75-130			
1,1,1,2-Tetrachloroethane	53.0	5.0	ug/kg	50.0		106	70-130			
1,1,2,2-Tetrachloroethane	53.2	2.0	ug/kg	50.0		106	55-140			
Tetrachloroethene	51.9	2.0	ug/kg	50.0		104	70-125			
Toluene	50.0	2.0	ug/kg	50.0		100	70-125			
1,2,3-Trichlorobenzene	53.8	5.0	ug/kg	50.0		108	60-130			
1,2,4-Trichlorobenzene	57.4	5.0	ug/kg	50.0		115	70-135			
1,1,1-Trichloroethane	53.5	2.0	ug/kg	50.0		107	65-135			
1,1,2-Trichloroethane	56.4	2.0	ug/kg	50.0		113	65-135			
Trichloroethene	48.7	2.0	ug/kg	50.0		97	70-125			
Trichlorofluoromethane	56.0	5.0	ug/kg	50.0		112	60-145			
1,2,3-Trichloropropane	52.5	10	ug/kg	50.0		105	60-135			
1,2,4-Trimethylbenzene	51.7	2.0	ug/kg	50.0		103	70-125			
1,3,5-Trimethylbenzene	51.2	2.0	ug/kg	50.0		102	70-125			
Vinyl chloride	52.3	5.0	ug/kg	50.0		105	55-135			
o-Xylene	51.2	2.0	ug/kg	50.0		102	70-125			
m,p-Xylenes	102	2.0	ug/kg	100		102	70-125			
Surrogate: Dibromofluoromethane	*54.0*		*ug/kg*	*50.0*		*108*	*80-125*			
Surrogate: Toluene-d8	*51.5*		*ug/kg*	*50.0*		*103*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*52.2*		*ug/kg*	*50.0*		*104*	*80-120*			

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METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5035/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 7F19007 Extracted: 06/19/07										
LCS Dup Analyzed: 06/19/2007 (7F19007-BSD1)										
Benzene	51.6	2.0	ug/kg	50.0		103	65-120	5	20	
Bromobenzene	51.5	5.0	ug/kg	50.0		103	75-120	6	20	
Bromochloromethane	58.2	5.0	ug/kg	50.0		116	70-135	3	20	
Bromodichloromethane	58.0	2.0	ug/kg	50.0		116	70-135	5	20	
Bromoform	50.6	5.0	ug/kg	50.0		101	55-135	4	25	
Bromomethane	61.1	5.0	ug/kg	50.0		122	60-145	5	20	
n-Butylbenzene	56.0	5.0	ug/kg	50.0		112	70-130	8	20	
sec-Butylbenzene	52.1	5.0	ug/kg	50.0		104	70-125	6	20	
tert-Butylbenzene	53.2	5.0	ug/kg	50.0		106	70-125	7	20	
Carbon tetrachloride	56.4	5.0	ug/kg	50.0		113	65-140	6	20	
Chlorobenzene	52.1	2.0	ug/kg	50.0		104	75-120	6	20	
Chloroethane	60.7	5.0	ug/kg	50.0		121	60-140	6	25	
Chloroform	54.3	2.0	ug/kg	50.0		109	70-130	5	20	
Chloromethane	57.7	5.0	ug/kg	50.0		115	45-145	6	25	
2-Chlorotoluene	49.0	5.0	ug/kg	50.0		98	70-125	6	20	
4-Chlorotoluene	52.2	5.0	ug/kg	50.0		104	75-125	8	20	
Dibromochloromethane	61.4	2.0	ug/kg	50.0		123	65-140	7	20	
1,2-Dibromo-3-chloropropane	57.3	5.0	ug/kg	50.0		115	50-135	1	30	
1,2-Dibromoethane (EDB)	59.3	2.0	ug/kg	50.0		119	70-130	6	20	
Dibromomethane	59.4	2.0	ug/kg	50.0		119	70-130	2	20	
1,2-Dichlorobenzene	54.4	2.0	ug/kg	50.0		109	75-120	6	20	
1,3-Dichlorobenzene	54.5	2.0	ug/kg	50.0		109	75-125	8	20	
1,4-Dichlorobenzene	48.7	2.0	ug/kg	50.0		97	75-120	7	20	
Dichlorodifluoromethane	56.7	5.0	ug/kg	50.0		113	35-160	3	30	
1,1-Dichloroethane	53.9	2.0	ug/kg	50.0		108	70-130	5	20	
1,2-Dichloroethane	56.4	2.0	ug/kg	50.0		113	60-140	5	20	
1,1-Dichloroethene	53.9	5.0	ug/kg	50.0		108	70-125	4	20	
cis-1,2-Dichloroethene	54.6	2.0	ug/kg	50.0		109	70-125	5	20	
trans-1,2-Dichloroethene	56.3	2.0	ug/kg	50.0		113	70-125	5	20	
1,2-Dichloropropane	54.0	2.0	ug/kg	50.0		108	70-130	5	20	
1,3-Dichloropropane	57.2	2.0	ug/kg	50.0		114	70-125	6	20	
2,2-Dichloropropane	57.9	2.0	ug/kg	50.0		116	60-145	6	20	
1,1-Dichloropropene	53.2	2.0	ug/kg	50.0		106	70-130	5	20	
cis-1,3-Dichloropropene	53.5	2.0	ug/kg	50.0		107	75-125	4	20	
trans-1,3-Dichloropropene	56.9	2.0	ug/kg	50.0		114	70-135	5	20	

TestAmerica - Irvine, CA

Michele Chamberlin
Project Manager

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Camp, Dresser & McKee
18581 Teller Avenue, #200
Irvine, CA 92612
Attention: Ravi Subramanian

Project ID: Boeing
5000-55353
Report Number: IQF1428

Sampled: 06/15/07
Received: 06/15/07

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5035/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 7F19007 Extracted: 06/19/07										
LCS Dup Analyzed: 06/19/2007 (7F19007-BSD1)										
Ethylbenzene	55.2	2.0	ug/kg	50.0		110	70-125	7	20	
Hexachlorobutadiene	55.9	5.0	ug/kg	50.0		112	60-135	10	20	
Isopropylbenzene	60.2	2.0	ug/kg	50.0		120	75-130	8	20	
p-Isopropyltoluene	54.3	2.0	ug/kg	50.0		109	75-125	8	20	
Methylene chloride	52.8	20	ug/kg	50.0		106	55-135	4	20	
Naphthalene	61.7	5.0	ug/kg	50.0		123	55-135	7	25	
n-Propylbenzene	54.8	2.0	ug/kg	50.0		110	70-130	8	20	
Styrene	58.8	2.0	ug/kg	50.0		118	75-130	6	20	
1,1,1,2-Tetrachloroethane	56.5	5.0	ug/kg	50.0		113	70-130	6	20	
1,1,2,2-Tetrachloroethane	56.0	2.0	ug/kg	50.0		112	55-140	5	30	
Tetrachloroethene	55.9	2.0	ug/kg	50.0		112	70-125	7	20	
Toluene	52.5	2.0	ug/kg	50.0		105	70-125	5	20	
1,2,3-Trichlorobenzene	58.6	5.0	ug/kg	50.0		117	60-130	8	20	
1,2,4-Trichlorobenzene	62.3	5.0	ug/kg	50.0		125	70-135	8	20	
1,1,1-Trichloroethane	56.4	2.0	ug/kg	50.0		113	65-135	5	20	
1,1,2-Trichloroethane	58.5	2.0	ug/kg	50.0		117	65-135	4	20	
Trichloroethene	51.3	2.0	ug/kg	50.0		103	70-125	5	20	
Trichlorofluoromethane	60.3	5.0	ug/kg	50.0		121	60-145	7	25	
1,2,3-Trichloropropane	54.7	10	ug/kg	50.0		109	60-135	4	25	
1,2,4-Trimethylbenzene	55.4	2.0	ug/kg	50.0		111	70-125	7	20	
1,3,5-Trimethylbenzene	55.1	2.0	ug/kg	50.0		110	70-125	7	20	
Vinyl chloride	55.1	5.0	ug/kg	50.0		110	55-135	5	25	
o-Xylene	54.5	2.0	ug/kg	50.0		109	70-125	6	20	
m,p-Xylenes	108	2.0	ug/kg	100		108	70-125	6	20	
Surrogate: Dibromofluoromethane	*53.0*		*ug/kg*	*50.0*		*106*	*80-125*			
Surrogate: Toluene-d8	*51.1*		*ug/kg*	*50.0*		*102*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*51.5*		*ug/kg*	*50.0*		*103*	*80-120*			

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Camp, Dresser & McKee
18581 Teller Avenue, #200
Irvine, CA 92612
Attention: Ravi Subramanian

Project ID: Boeing
5000-55353
Report Number: IQF1428

Sampled: 06/15/07
Received: 06/15/07

METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 7F19104 Extracted: 06/19/07										
Blank Analyzed: 06/20/2007 (7F19104-BLK1)										
Antimony	ND	10	mg/kg							
Arsenic	ND	2.0	mg/kg							
Barium	ND	1.0	mg/kg							
Beryllium	ND	0.50	mg/kg							
Cadmium	ND	0.50	mg/kg							
Chromium	ND	1.0	mg/kg							
Cobalt	ND	1.0	mg/kg							
Copper	ND	2.0	mg/kg							
Lead	ND	2.0	mg/kg							
Molybdenum	ND	2.0	mg/kg							
Nickel	ND	2.0	mg/kg							
Selenium	ND	2.0	mg/kg							
Silver	ND	1.0	mg/kg							
Thallium	ND	10	mg/kg							
Vanadium	ND	1.0	mg/kg							
Zinc	ND	5.0	mg/kg							
LCS Analyzed: 06/20/2007 (7F19104-BS1)										
Antimony	48.5	10	mg/kg	50.0		97	80-120			
Arsenic	46.6	2.0	mg/kg	50.0		93	80-120			
Barium	47.9	1.0	mg/kg	50.0		96	80-120			
Beryllium	48.6	0.50	mg/kg	50.0		97	80-120			
Cadmium	45.9	0.50	mg/kg	50.0		92	80-120			
Chromium	47.9	1.0	mg/kg	50.0		96	80-120			
Cobalt	48.0	1.0	mg/kg	50.0		96	80-120			
Copper	47.8	2.0	mg/kg	50.0		96	80-120			
Lead	47.8	2.0	mg/kg	50.0		96	80-120			
Molybdenum	46.2	2.0	mg/kg	50.0		92	80-120			
Nickel	48.4	2.0	mg/kg	50.0		97	80-120			
Selenium	45.3	2.0	mg/kg	50.0		91	80-120			
Silver	23.9	1.0	mg/kg	25.0		95	80-120			
Thallium	47.1	10	mg/kg	50.0		94	80-120			
Vanadium	46.9	1.0	mg/kg	50.0		94	80-120			
Zinc	46.9	5.0	mg/kg	50.0		94	80-120			

TestAmerica - Irvine, CA

Michele Chamberlin
Project Manager

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Irvine, CA 92612
Attention: Ravi Subramanian

Project ID: Boeing
5000-55353
Report Number: IQF1428

Sampled: 06/15/07
Received: 06/15/07

METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 7F19104 Extracted: 06/19/07										
Matrix Spike Analyzed: 06/20/2007 (7F19104-MS1)					**Source: IQF1340-01**					
Antimony	19.7	10	mg/kg	50.0	1.21	37	75-125			*M2*
Arsenic	55.8	2.0	mg/kg	50.0	7.56	97	75-125			
Barium	274	1.0	mg/kg	50.0	206	136	75-125			*MHA*
Beryllium	49.1	0.50	mg/kg	50.0	0.587	97	75-125			
Cadmium	45.9	0.50	mg/kg	50.0	ND	92	75-125			
Chromium	73.8	1.0	mg/kg	50.0	27.6	92	75-125			
Cobalt	59.8	1.0	mg/kg	50.0	12.3	95	75-125			
Copper	86.1	2.0	mg/kg	50.0	34.5	103	75-125			
Lead	55.3	2.0	mg/kg	50.0	9.72	91	75-125			
Molybdenum	44.7	2.0	mg/kg	50.0	0.601	88	75-125			
Nickel	73.8	2.0	mg/kg	50.0	25.9	96	75-125			
Selenium	43.6	2.0	mg/kg	50.0	ND	87	75-125			
Silver	23.5	1.0	mg/kg	25.0	ND	94	75-125			
Thallium	44.7	10	mg/kg	50.0	ND	89	75-125			
Vanadium	99.5	1.0	mg/kg	50.0	50.5	98	75-125			
Zinc	107	5.0	mg/kg	50.0	55.8	102	75-125			
Matrix Spike Dup Analyzed: 06/20/2007 (7F19104-MSD1)					**Source: IQF1340-01**					
Antimony	17.2	10	mg/kg	50.0	1.21	32	75-125	14	20	*M2*
Arsenic	52.5	2.0	mg/kg	50.0	7.56	90	75-125	6	20	
Barium	252	1.0	mg/kg	50.0	206	92	75-125	8	20	*MHA*
Beryllium	45.1	0.50	mg/kg	50.0	0.587	89	75-125	8	20	
Cadmium	42.2	0.50	mg/kg	50.0	ND	84	75-125	8	20	
Chromium	69.6	1.0	mg/kg	50.0	27.6	84	75-125	6	20	
Cobalt	55.3	1.0	mg/kg	50.0	12.3	86	75-125	8	20	
Copper	80.7	2.0	mg/kg	50.0	34.5	92	75-125	6	20	
Lead	51.4	2.0	mg/kg	50.0	9.72	83	75-125	7	20	
Molybdenum	41.2	2.0	mg/kg	50.0	0.601	81	75-125	8	20	
Nickel	68.3	2.0	mg/kg	50.0	25.9	85	75-125	8	20	
Selenium	40.5	2.0	mg/kg	50.0	ND	81	75-125	7	20	
Silver	21.6	1.0	mg/kg	25.0	ND	86	75-125	8	20	
Thallium	41.2	10	mg/kg	50.0	ND	82	75-125	8	20	
Vanadium	92.3	1.0	mg/kg	50.0	50.5	84	75-125	7	20	
Zinc	97.6	5.0	mg/kg	50.0	55.8	84	75-125	9	20	

TestAmerica - Irvine, CA

Michele Chamberlin
Project Manager

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Camp, Dresser & McKee
18581 Teller Avenue, #200
Irvine, CA 92612
Attention: Ravi Subramanian

Project ID: Boeing
5000-55353
Report Number: IQF1428

Sampled: 06/15/07
Received: 06/15/07

METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 7F21072 Extracted: 06/21/07										
Blank Analyzed: 06/21/2007 (7F21072-BLK1)										
Mercury	ND	0.020	mg/kg							
LCS Analyzed: 06/21/2007 (7F21072-BS1)										
Mercury	0.893	0.020	mg/kg	0.800		112	85-120			
Matrix Spike Analyzed: 06/21/2007 (7F21072-MS1)					**Source: IQF1649-01**					
Mercury	0.954	0.020	mg/kg	0.800	ND	119	65-135			
Matrix Spike Dup Analyzed: 06/21/2007 (7F21072-MSD1)					**Source: IQF1649-01**					
Mercury	0.918	0.020	mg/kg	0.800	ND	115	65-135	4	20	

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DATA QUALIFIERS AND DEFINITIONS

M2	The MS and/or MSD were below the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
MHA	Due to high levels of analyte in the sample, the MS/MSD calculation does not provide useful spike recovery information. See Blank Spike (LCS).
P	The sample, as received, was not preserved in accordance to the referenced analytical method.
pH	pH = 3
R	The RPD exceeded the method control limit due to sample matrix effects. The individual analyte QA/QC recoveries, however, were within acceptance limits.
ND	Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
RPD	Relative Percent Difference

ADDITIONAL COMMENTS

For Hydrocarbon Distribution Analyses:

The reporting limits for the individual carbon distribution ranges are derived by proportioning the individual ranges relative to the total carbon range, not to fall below the method detection limit of the total range.

For Extractable Fuel Hydrocarbons (EFH, DRO, ORO) :

Unless otherwise noted, Extractable Fuel Hydrocarbons (EFH, DRO, ORO) are quantitated against a Diesel Fuel Standard.

TestAmerica - Irvine, CA

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Report Number: IQF1428

Sampled: 06/15/07
Received: 06/15/07

Certification Summary

TestAmerica - Irvine, CA

Method	Matrix	Nelac	California
EPA 6010B	Soil	X	X
EPA 7471A	Soil	X	X
EPA 8015 MOD.	Soil	X	X
EPA 8260B	Soil	X	X
EPA 8260B	Water	X	X

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

TestAmerica - Irvine, CA

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Project Manager

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1014 E. Cooley Dr., Suite A, Colton, CA 92324 (909) 370-4667 FAX (909) 370-1046
9830 South 51st St., Suite B-120, Phoenix, AZ 85044 (480) 785-0043 FAX (480) 785-0851
2520 E. Sunset Rd. #3, Las Vegas, NV 89120 (702) 798-3620 FAX (702) 798-3621

TestAmerica
ANALYTICAL TESTING CORPORATION

CHAIN OF CUSTODY FORM

IQF1428

Client Name/Address: CDM 18581 Teller Ave. Suite 200 Irvine, CA 92612

Project/PO Number: Boeing 5000-55353

Project Manager: Ravi Subramanian

Phone Number: 949-752-5452

Sampler: Kelly Klegingir

Fax Number: 949-752-1307

Analysis Required

Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date	Sampling Time	Preservatives	8260 VOCs	Title 22 Metals	TPH-CC							Special Instructions
Disposal-soil-061507	S	Jar Encore	4	6/15/07	915	—	X	X	X							Run soil VOCs
Disposal-water-061507	W	VOA	3	↓	925	HCl	X									from encores
Drilling-water-061507	W	↓	3	↓	1030	HCl	X									AND JAR

A.P. 1700 06/15/07

Relinquished By:	Date/Time:	Received By:	Date/Time:	Turnaround Time: (Check)
				same day ____ 72 hours ____
Relinquished By:	Date/Time:	Received By:	Date/Time:	24 hours ____ 5 days ____
				48 hours ____ normal X
Relinquished By: Kelly H. Klegingir	Date/Time: 6/15/07 11:30	Received in Lab By: Vu Banle	Date/Time: 6/15/07 1130	Sample Integrity: (Check) intact ✓ on ice ✓

Note: By relinquishing samples to TestAmerica, client agrees to pay for the services requested on this chain of custody form and any additional analyses performed on this project. Payment for services is due within 30 days from the date of invoice. Sample(s) will be disposed of after 30 days.

8.1/8.1

#469 Fridge

Appendix E

Appendix E

WASTE MANIFESTS

CDM

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number: NOT REQUIRED	2. Page 1 of 1	3. Emergency Response Phone: 888-423-6080	4. Waste Tracking Number: 003423

GENERATOR

5. Generator's Name and Mailing Address
Boeing Realty Corporation
4501 E Conant Street, Long Beach, CA 90808
Generator's Phone:

Generator's Site Address (if different than mailing address)
BRC - Former C6 Facility
1451 Knox Street
Torrance, CA 90501

6. Transporter 1 Company Name: American Integrated Services, Inc.
U.S. EPA ID Number: CAR000146339

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
Crosby & Overton, Inc.
1630 W. 19th Street
Long Beach, CA 90813 562-432-5445
Facility's Phone:
U.S. EPA ID Number: CAD028409019

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
	1. Non-Hazardous Waste Liquid	001 ~~008~~	TT ~~DT~~	00440	G	
	2.					
	3.					
	4.					

13. Special Handling Instructions and Additional Information
Wear protective equipment while handling. Weights or volumes are approximate. 24 hour emergency number (888) 423-6080 (AIS Dispatcher).

Profile #: 27578
Project #: 27001-241
8 drums

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.
Generator's/Offeror's Printed/Typed Name: SCOTT LATTIMORE
Signature: Scott Lattimore
Month 7 Day 1 Year 07

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S.
Port of entry/exit:
Transporter Signature (for exports only):
Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Ben Burgos
Signature:
Month 7 Day 11 Year 07
Transporter 2 Printed/Typed Name
Signature
Month Day Year

DESIGNATED FACILITY

17. Discrepancy
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
17b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:
17c. Signature of Alternate Facility (or Generator)
Month Day Year

H-135

18. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 17a
Printed/Typed Name: Cameron Smith
Signature:
Month 7 Day 17 Year 07

169-BLC-O 6 10498

TRANSPORTER #1

TPST Soil Recyclers of CA

12328 Hibiscus Ave. Adelanto, CA 92301

ADE 39114

WEIGHMASTER CERTIFICATE

THIS IS TO CERTIFY that the following described commodity was weighed, measured, or counted by a weighmaster, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by Chapter 7 (commencing with Section 12700) of Division 5 of the California Business and Professions Code, administered by the Division of Measurement Standards of the California Department of Food and Agriculture.

Manifest Number: A2-8069 Load #: 2 7/17/2007

Generator Site Information:

BOEING COMPANY

1451 KNOX ST

TORRANCE, CA

Weighmaster Weighed at:

TPST SOIL RECYCLERS OF CALIFORNIA

12328 HIBISCUS AVE

ADELANTO, CA 92301

			Lbs	Tons	
J Provansal	Time In: 11:50:06 AM	Gross Weight:	6660	3.33	Manual Wt
J Provansal	Time out: 11:50:07 AM	Tare Weight:	2780	1.39	Manual Wt
		Net Weight:	3880	1.94	

Truck Number: 508

Trailer Number: 210

Commodity: Non Haz - Solids

Driver on Gross and Tare Transporter: AIS - FRED

Manifest

TPST Soil Recyclers of CA
Non-Hazardous Soils

* Manifest # *

Date of Shipment:	Responsible for Payment:	Transporter Truck #:	Facility #:	Given by TPST:	Load #
	Transporter		407	28069	1 of 1

Generator and/or Consultant

Generator's Name and Billing Address: Boeing Realty Corporation, 4501 E. Conant Street, Long Beach, CA 90808	Generator's Phone #:	Generator's US EPA ID No.
	Person to Contact:	
	FAX#:	Customer Account Number with TPST:
Consultant's Name and Billing Address:	Consultant's Phone #:	
	Person to Contact:	
	FAX#:	Customer Account Number with TPST:
Generation Site (Transport from): *(name & address)* BRC - Former C8 Facility, 1451 Knox Street, Torrance, CA	Site Phone #:	BTEX Levels
	Person to Contact:	TPH Levels
	FAX#:	AVG. Levels
Designated Facility (Transport to): *(name & address)* TPS Technologies, 12328 Hibiscus Rd., Adelanto, CA 92301-1700	Facility Phone #: (800) 862-8001	Facility Permit Numbers
	Person to Contact: Delfino Jeffrey	
	FAX#: (760) 246-8004	
Transporter Name and Mailing Address: American Integrated Services, Inc., P.O. Box 92316, Long Beach, CA 90809-2316	Transporter's Phone #: (310) 522-1168	Transporter's US EPA ID No.: CAR000146338
	Person to Contact: Melynda Borrego	Transporter's DOT No.:
	FAX#: (310) 522-0474	Customer Account Number with TPST: 7704608

Description of Soil	Moisture Content	Contaminated by:	Approx. Qty:	Description of Delivery	Gross Weight	Tare Weight	Net Weight
Sand ☐ Organic ☐ Clay ☐ Other ☐	0 - 10% ☐ 10 - 20% ☐ 20% - over ☐	Gas ☐ Diesel ☐ Other ☐	7 DM	Soil	3.500 LBS		
Sand ☐ Organic ☐ Clay ☐ Other ☐	0 - 10% ☐ 10 - 20% ☐ 20% - over ☐	Gas ☐ Diesel ☐ Other ☐			6660	2780	3880

List any exception to items listed above: AIS Project # 27001-241 Scale Ticket# 38414 1.94

Generator's and/or consultant's certification: I/We certify that the soil referenced herein is taken entirely from those soils described in the Soil Data Sheet completed and certified by me/us for the Generation Site shown above and nothing has been added or done to such soil that would alter it in any way.

Print or Type Name: Scott Lattimore Generator ☑ Consultant ☐ Signature and date: Scott Lattimore Month 7 Day 11 Year 07

Transporter

Transporter's certification: I/We acknowledge receipt of the soil described above and certify that such soil is being delivered in exactly the same condition as when received. I/We further certify that this soil is being directly transported from the Generation Site to the Designated Facility without off-loading, adding to, subtracting from or in any way delaying delivery to such site.

Print or Type Name: Ben Burgos Signature and date: Month 7 Day 11 Year 07

Recycling Facility

Discrepancies:

Recycling Facility certifies the receipt of the soil covered by this manifest except as noted above:

Print or Type Name: Signature and date: 7.17.7

Please print or type.

TRANSPORTER COPY

BOE-C6-0187287

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: CAL000255063
2. Page 1 of 1
3. Emergency Response Phone: 888-423-8060
4. Manifest Tracking Number: 000292209 JJK

5. Generator's Name and Mailing Address
Boeing Realty Corporation
4501 E. Conant Street
Long Beach, CA 90808
Generator's Phone: 562-497-6200

Generator's Site Address (if different than mailing address)
1451 Knox Street
Torrance, CA 90501 USA

6. Transporter 1 Company Name: American Integrated Services, Inc
U.S. EPA ID Number: CAR000148338

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address
Siemens Water Technologies
5375 South Boyle Avenue
Los Angeles, CA 90058
Facility's Phone: 323-277-1500
U.S. EPA ID Number: CAD097030993

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
	1. Hazardous Waste Liquid, nos, 9, NA3082, PG III, RQ (1,1 DICHLOROETHYLENE)	006	DM	00330	G	134	D029	
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information TRANSPORTER #1 PHONE # 310-522-1168
Wear appropriate PPE while handling. Weights or volumes are approximate. BOEING EMERGENCY # 562-593-6111
Job#27001-241 Profile#P170241 9a.1) GROUND WATER WITH 1,1 DICHLOROETHYLENE

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: David Hinds
Signature: [signature]
Month 7 Day 11 Year 07

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Ben Burgos
Signature: [signature]
Month 7 Day 11 Year 07
Transporter 2 Printed/Typed Name:
Signature:
Month Day Year

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: MIKE FOX
Signature: [signature]
Month 7 Day 11 Year 07

GENERATOR / INT'L / TRANSPORTER / DESIGNATED FACILITY

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

TRANSPORTER'S COPY

BOE-C6-0187288

Appendix F

Appendix F

SURVEY REPORT

CDM

KDM MERIDIAN

CIVIL ENGINEERING AND LAND SURVEYING

July 9, 2007 **KDMM #07-CDM-03**

Mr. Ravi Subramanian, P.E.
CDM Environmental
18581 Teller Ave, Suite 200
Irvine, CA 92612

Re: **Boeing C-6 Facility, Torrance - CA**
Survey Report

Dear Mr. Subramanian:

KDM Meridian is pleased to provide **CDM Environmental** with this report of survey work performed on the subject site July 2, 2007 at your request. The scope of work included the survey of seven (11) newly installed wells and remediation piping.

The nearest existing bench mark in the Los Angeles County Surveyor's system was used: Y-3031 / Elv: 48.878 feet, NAVD-88.

Two (2) on-site Survey Control Points (SCP) were used (coordinates established thereon in CCS-83, Zone V, 2002.00 Epoch and NAVD-88). Data on these two point was submitted December 4, 2006.

Closed level loops were run through each surveyed well from SCPs. The wells were then surveyed through conventional methods, based on coordinates of the SCPs.

Attachments:

Exhibit 1	**Summary Table (Boeing EDD)**	
Exhibit 2	**GeoTracker Files (GeoTracker EDD)**	(Global Site ID not provided)
Exhibit 3	**Site Figure**	
Exhibit 4	**ASCII File of Remediation Piping**	

Thank you for allowing **KDM Meridian, Inc.** to provide surveying services to **CDM Environmental**. Should you have questions concerning anything contained in this report, please contact me.

Sincerely,

Richard C. Maher, CA PLS #7564
President
KDM Meridian, Inc.

PROFESSIONAL LAND SURVEYOR
RICHARD C. MAHER
No. 7564
Exp: 12/31/07
STATE OF CALIFORNIA

22722 Lambert Street, Suite 1710, Lake Forest, California 92630
Telephone: 949-768-0731 Facsimile: 949-768-3731
KDMMeridian.com

EXHIBIT 1 - BOEING EDD

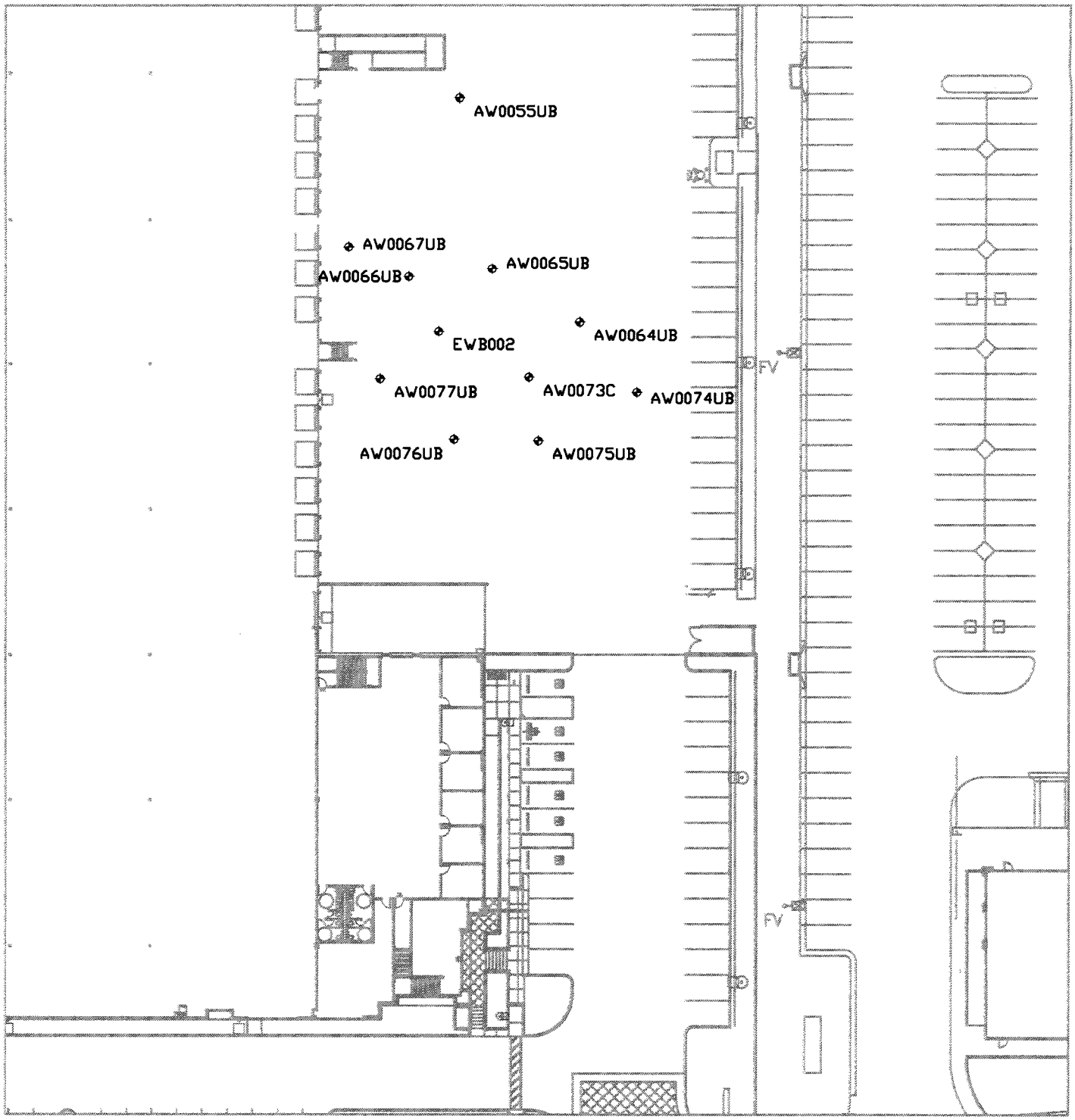
SITE	OBJECT TYPE	OBJ. NAME	X-COORD	Y-COORD	XY UNITS	XY DATUM	XY DATE	LONGITUDE	LATITUDE	OBJ. ELEV.	GROUND ELEV.	ELEV. UNIT	ELEV. DATUM	ELEV. DATE	LOCATION DESCRIPTION	COMMENTS
BOEING C-6	MONITORING WELL	AW0055UB	6470286.71	1769856.63	FEET	CCS-83, ZONE V, 2002.00 EPOCH	7/2/2007	-118.3009634	33.8552926	53.54	54.16	FEET	NAVD-88	7/2/2007		+/- 0.06 FEET, 95%
BOEING C-6	MONITORING WELL	AW0064UB	6470329.88	1769776.19	FEET	CCS-83, ZONE V, 2002.00 EPOCH	7/2/2007	-118.3008205	33.8550719	53.28	53.54	FEET	NAVD-88	7/2/2007		+/- 0.06 FEET, 95%
BOEING C-6	MONITORING WELL	AW0065UB	6470298.41	1769795.41	FEET	CCS-83, ZONE V, 2002.00 EPOCH	7/2/2007	-118.3009243	33.8551244	53.64	54.03	FEET	NAVD-88	7/2/2007		+/- 0.06 FEET, 95%
BOEING C-6	MONITORING WELL	AW0066UB	6470268.49	1769792.59	FEET	CCS-83, ZONE V, 2002.00 EPOCH	7/2/2007	-118.3010228	33.8551164	53.98	54.31	FEET	NAVD-88	7/2/2007		+/- 0.06 FEET, 95%
BOEING C-6	MONITORING WELL	AW0067UB	6470246.95	1769803.41	FEET	CCS-83, ZONE V, 2002.00 EPOCH	7/2/2007	-118.3010938	33.8551460	54.01	54.51	FEET	NAVD-88	7/2/2007		+/- 0.06 FEET, 95%
BOEING C-6	MONITORING WELL	AW0073C	6470311.64	1769756.34	FEET	CCS-83, ZONE V, 2002.00 EPOCH	7/2/2007	-118.3008803	33.8550172	53.42	53.78	FEET	NAVD-88	7/2/2007		+/- 0.06 FEET, 95%
BOEING C-6	MONITORING WELL	AW0074UB	6470350.29	1769750.95	FEET	CCS-83, ZONE V, 2002.00 EPOCH	7/2/2007	-118.3007530	33.8550027	52.73	52.96	FEET	NAVD-88	7/2/2007		+/- 0.06 FEET, 95%
BOEING C-6	MONITORING WELL	AW0075UB	6470314.98	1769733.58	FEET	CCS-83, ZONE V, 2002.00 EPOCH	7/2/2007	-118.3008691	33.8549547	53.23	53.73	FEET	NAVD-88	7/2/2007		+/- 0.06 FEET, 95%
BOEING C-6	MONITORING WELL	AW0076UB	6470284.73	1769734.12	FEET	CCS-83, ZONE V, 2002.00 EPOCH	7/2/2007	-118.3009687	33.8549559	53.69	54.17	FEET	NAVD-88	7/2/2007		+/- 0.06 FEET, 95%
BOEING C-6	MONITORING WELL	AW0077UB	6470258.17	1769755.79	FEET	CCS-83, ZONE V, 2002.00 EPOCH	7/2/2007	-118.3010564	33.8550152	53.96	54.41	FEET	NAVD-88	7/2/2007		+/- 0.06 FEET, 95%
BOEING C-6	MONITORING WELL	EWB002	6470279.23	1769772.84	FEET	CCS-83, ZONE V, 2002.00 EPOCH	7/2/2007	-118.3009872	33.8550623	53.74	54.13	FEET	NAVD-88	7/2/2007		+/- 0.06 FEET, 95%

EXHIBIT 2 - GEO_XY

GLOBAL_ID	FIELD_PT_NAME	FIELD_PT_CLASS	XY_SURVEY_DATE	LATITUDE	LONGTITUDE	XY_METHOD	XY_DATUM	XY_ACC_VAL	XY_SURVEY_ORG	GPS_EQUIP_TYPE	XY_SURVEY_DESC
?	AW0055UB	MW	07/02/2007	33.8552926	-118.3009634	CGPS	NAD83	2	KDM MERIDIAN (949) 768-0731	T57	NAD_83(CORS96) 2002.00
?	AW0064UB	MW	07/02/2007	33.8550719	-118.3008205	CGPS	NAD83	2	KDM MERIDIAN (949) 768-0731	T57	NAD_83(CORS96) 2002.00
?	AW0065UB	MW	07/02/2007	33.8551244	-118.3009243	CGPS	NAD83	2	KDM MERIDIAN (949) 768-0731	T57	NAD_83(CORS96) 2002.00
?	AW0066UB	MW	07/02/2007	33.8551164	-118.3010228	CGPS	NAD83	2	KDM MERIDIAN (949) 768-0731	T57	NAD_83(CORS96) 2002.00
?	AW0067UB	MW	07/02/2007	33.8551460	-118.3010938	CGPS	NAD83	2	KDM MERIDIAN (949) 768-0731	T57	NAD_83(CORS96) 2002.00
?	AW0073C	MW	07/02/2007	33.8550172	-118.3008803	CGPS	NAD83	2	KDM MERIDIAN (949) 768-0731	T57	NAD_83(CORS96) 2002.00
?	AW0074UB	MW	07/02/2007	33.8550027	-118.3007530	CGPS	NAD83	2	KDM MERIDIAN (949) 768-0731	T57	NAD_83(CORS96) 2002.00
?	AW0075UB	MW	07/02/2007	33.8549547	-118.3008691	CGPS	NAD83	2	KDM MERIDIAN (949) 768-0731	T57	NAD_83(CORS96) 2002.00
?	AW0076UB	MW	07/02/2007	33.8549559	-118.3009687	CGPS	NAD83	2	KDM MERIDIAN (949) 768-0731	T57	NAD_83(CORS96) 2002.00
?	AW0077UB	MW	07/02/2007	33.8550152	-118.3010564	CGPS	NAD83	2	KDM MERIDIAN (949) 768-0731	T57	NAD_83(CORS96) 2002.00
?	EWB002	MW	07/02/2007	33.8550623	-118.3009872	CGPS	NAD83	2	KDM MERIDIAN (949) 768-0731	T57	NAD_83(CORS96) 2002.00

EXHIBIT 2 - GEO_Z

GLOBAL_ID	FIELD_PT_NAME	ELEV_SURVEY_DATE	ELEVATION	ELEV_METHOD	ELEV_DATUM	ELEV_ACC_VAL	ELEV_SURVEY_ORG	RISER_HT	ELEV_DESC	EFF_DATE
?	AW0055UB	07/02/2007	53.54	DIG	88	0.5	KDM MERIDIAN (949) 768-0731	-0.63	COUNTY OF LOS ANGELES BM Y 3031 (48.878')	
?	AW0064UB	07/02/2007	53.28	DIG	88	0.5	KDM MERIDIAN (949) 768-0731	-0.26	COUNTY OF LOS ANGELES BM Y 3031 (48.878')	
?	AW0065UB	07/02/2007	53.64	DIG	88	0.5	KDM MERIDIAN (949) 768-0731	-0.39	COUNTY OF LOS ANGELES BM Y 3031 (48.878')	
?	AW0066UB	07/02/2007	53.98	DIG	88	0.5	KDM MERIDIAN (949) 768-0731	-0.34	COUNTY OF LOS ANGELES BM Y 3031 (48.878')	
?	AW0067UB	07/02/2007	54.01	DIG	88	0.5	KDM MERIDIAN (949) 768-0731	-0.50	COUNTY OF LOS ANGELES BM Y 3031 (48.878')	
?	AW0073C	07/02/2007	53.42	DIG	88	0.5	KDM MERIDIAN (949) 768-0731	-0.36	COUNTY OF LOS ANGELES BM Y 3031 (48.878')	
?	AW0074UB	07/02/2007	52.73	DIG	88	0.5	KDM MERIDIAN (949) 768-0731	-0.23	COUNTY OF LOS ANGELES BM Y 3031 (48.878')	
?	AW0075UB	07/02/2007	53.23	DIG	88	0.5	KDM MERIDIAN (949) 768-0731	-0.50	COUNTY OF LOS ANGELES BM Y 3031 (48.878')	
?	AW0076UB	07/02/2007	53.69	DIG	88	0.5	KDM MERIDIAN (949) 768-0731	-0.48	COUNTY OF LOS ANGELES BM Y 3031 (48.878')	
?	AW0077UB	07/02/2007	53.96	DIG	88	0.5	KDM MERIDIAN (949) 768-0731	-0.45	COUNTY OF LOS ANGELES BM Y 3031 (48.878')	
?	EWB002	07/02/2007	53.74	DIG	88	0.5	KDM MERIDIAN (949) 768-0731	-0.39	COUNTY OF LOS ANGELES BM Y 3031 (48.878')	



N

KDM Meridian
22541 ASPAN SUITE C
Lake Forest, CA 92630
PH: (949) 768-0731
FAX: (949) 768-3731

SURVEY DATE: 07/02/2007

LOCATION: BOEING C-6 FACILITY TORRANCE, CA

SCALE: 1" = 50'

JOB NO.: 07-CDM-03

SHEET 1 OF 1

```
Pt# North East Elevation Desc [Units=Feet]
60000,1769590.38,6470369.75,50.48,TOP BGN
60001,1769595.58,6470369.37,50.45,TOP BGN T
60002,1769596.73,6470369.23,50.38,TOP CENTER OF T
60003,1769598.06,6470369.10,50.41,TOP T CUPLING
60004,1769602.88,6470368.77,50.26,TOP
60005,1769604.32,6470368.60,50.22,TOP END
60006,1769596.55,6470367.73,50.24,TOP MID REDUCER
60007,1769596.61,6470366.25,49.98,TOP 2X4 AP
60008,1769599.63,6470366.00,50.18,TOP 2X4
60009,1769602.60,6470365.87,50.36,TOP 2X4 AP
60010,1769603.41,6470370.64,50.80,TOP 2X4
60011,1769604.04,6470376.53,50.91,TOP 2X4 END
60012,1769600.74,6470376.78,53.71,VAULT BOX
60013,1769605.57,6470376.74,53.76,VAULT BOX
60014,1769605.59,6470382.55,53.65,VAULT BOX
60015,1769600.79,6470382.61,53.60,VAULT BOX
60016,1769604.52,6470376.57,50.71,ELEC CON END
60017,1769603.64,6470376.52,50.80,ELEC CON END
60018,1769603.37,6470376.54,50.78,ELEC CON END
60019,1769604.07,6470370.22,50.51,ELEC CON AP
60020,1769603.17,6470371.24,50.30,ELEC CON AP
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60023,1769599.79,6470370.64,50.02,ELEC CON AP VERT
60024,1769599.62,6470370.67,50.04,ELEC CON AP VERT
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60031,1769606.14,6470375.53,48.48,EXC AP NG
60032,1769599.90,6470375.64,48.45,EXC AP NG
60033,1769606.25,6470383.09,48.34,EXC AP NG
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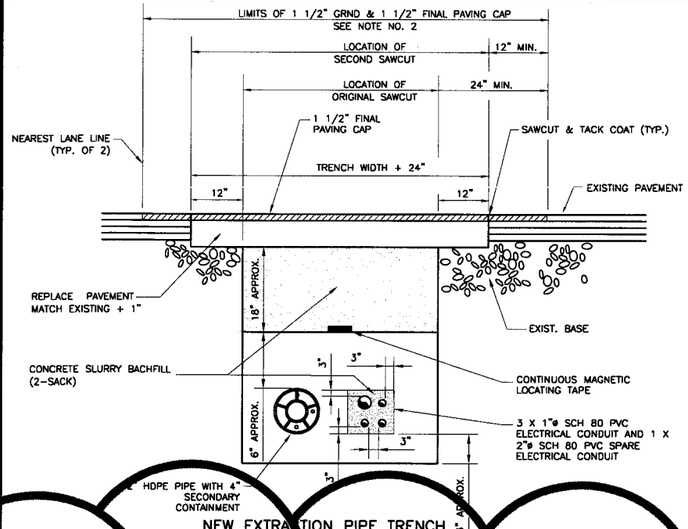


NEW EXTRACTION PIPE TRENCH

DETAIL A C-1
NTS

NOTES:

1. WHERE THE EDGE OF THE PAVEMENT REMOVED FOR THE TRENCH EXCAVATION COMES WITHIN THREE (3) FEET OF THE OUTER EDGE OF THE PAVEMENT AGAINST GUTTER LINE OF CURB FACE, THE EXISTING PAVING SHALL BE REMOVED TO THE GUTTER LINE OR CURB FACE AND THE PERMANENT PAVEMENT LAID TO THE CUTTER LINE OR CURB FACE.

   WHERE THE EDGE LINE OF THE PAVEMENT REMOVED FOR THE PIPELINE TRENCH EXCAVATION IS MORE THAN THREE (3) FEET FROM THE GUTTER LINE OR CURB FACE, THE CONTRACTOR IS TO SAWCUT THE EXISTING PAVING TWELVE (12) INCHES BACK FROM THE EDGE OF THE TRENCH AND REMOVE THAT EXISTING PAVEMENT BEFORE PLACEMENT OF PERMANENT PAVING (INCLUDING BASE MATERIAL).

   AC PAVEMENT TRENCH REPLACEMENT SHALL BE PLACED NO LESS THAN FLUSH WITH ADJACENT EXISTING PAVEMENT. PRIOR TO PLACEMENT OF 1-1/2" FINAL AC CAP, THE PREVIOUSLY PLACED AC PAVEMENT TRENCH REPLACEMENT SHALL BE GROUND ALONG WITH ADJACENT AC PAVEMENT AS SHOWN ON DETAIL.

2. THE EXISTING PAVEMENT AND AC PAVEMENT TRENCH REPLACEMENT IS TO BE MECHANICALLY GROUND DOWN A MINIMUM OF 1" (A MINIMUM OF AN ADDITIONAL 12" OUTSIDE OF THE AC PAVEMENT TRENCH REPLACEMENT OR TRENCH WIDTH + 48") TO THE NEAREST LANE LINES ON BOTH SIDES OF THE TRENCH. THE PERMANENT PAVING SHALL THAN BE EXTENDED AS AN OVERLAY INTO THIS AREA. ALL EXISTING PAVEMENT EDGES ARE TO BE TACK COATED BEFORE APPLICATION OF PERMANENT PAVEMENT. IF THERE IS LESS THAN (2) INCHES OF PAVEMENT AFTER GRINDING, THEN GROUND AREA SHALL BE REMOVED BY SAW CUTTING AND PERMANENT PAVEMENT PLACED.

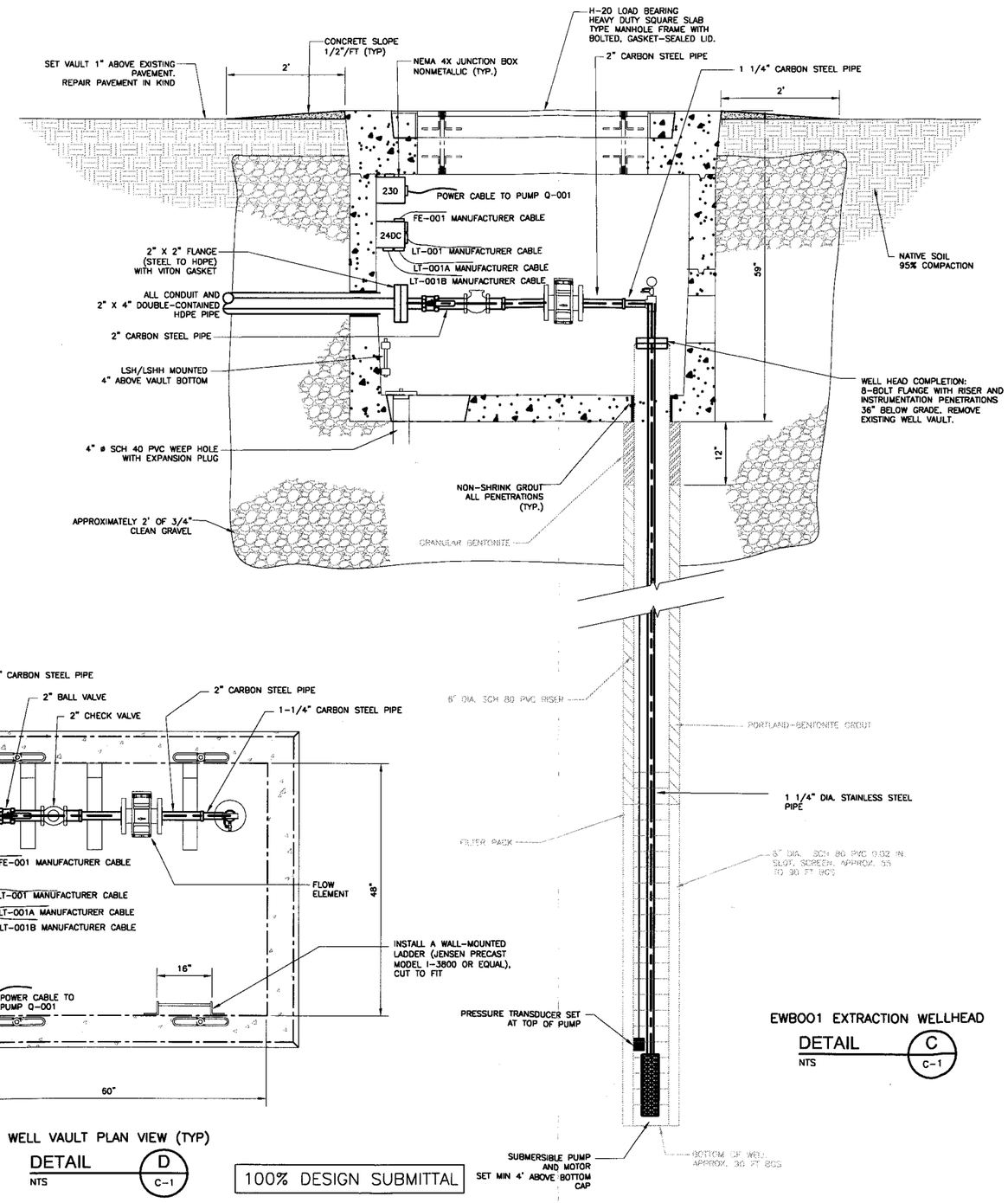
3. CONTRACTOR TO CLEAN AREA WITH BROOM OR SWEEPER PRIOR TO END OF EACH WORK DAY.

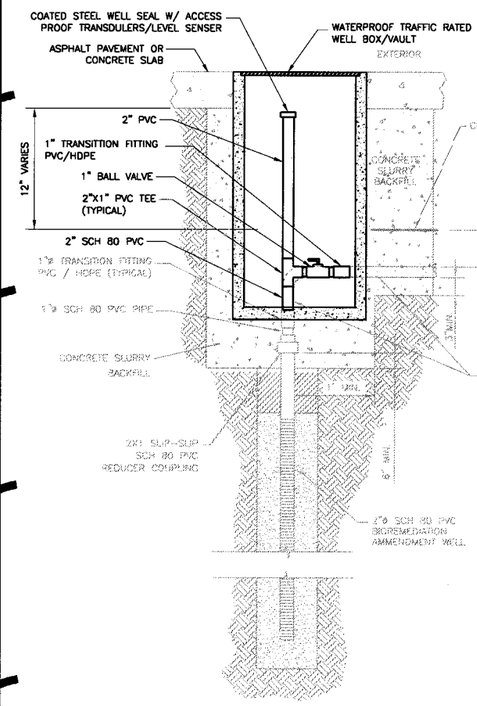
4. ALL EXISTING STRIPPING AND PAVEMENT MARKERS REMOVED BY TRENCHING/PAVING SHALL BE REPLACED TO MATCH EXISTING.

5. FINAL AC PAVEMENT SECTIONS SHALL BE NO LESS THAN 4" TOTAL THICKNESS FOR NEW SECTIONS AS WELL AS RESTORED SECTIONS.

6. CONCRETE PAVEMENT SHALL BE REPLACED PER STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION (SPPWC) NOS. 132-2 AND 134-1 (CONCRETE PAVEMENT JOINT DETAILS), EXCEPT AS MODIFIED BY THIS DETAIL. NEW CONCRETE SHALL BE PCC (520-A-2500).

7. ASPHALT SHALL BE REPLACED PER STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION NO. 302-5 AND SPPWC NO. 133-2, EXCEPT AS MODIFIED BY THIS DETAIL. NEW ASPHALT SHALL BE AR-4000.





CONSTRUCTION STEPS:

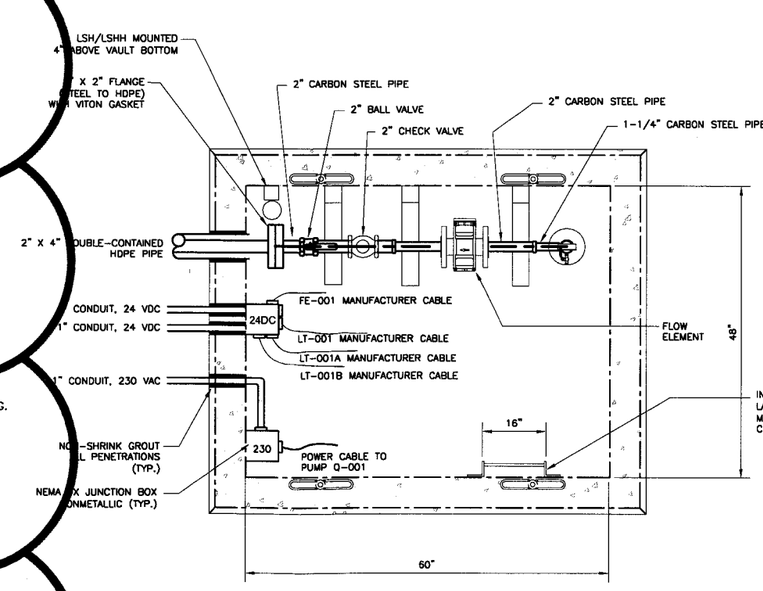
1. SAWCUT HOLE IN EXISTING PAVEMENT OR SLAB.
2. REMOVE CONCRETE SLURRY BACKFILL.
3. EXPOSE HDPE 1" PVC/HDPE TRANSITION FITTING.
4. CUT EXISTING PVC PIPE BELOW PVC/HDPE TRANSITION FITTING.
5. ATTACH NEW PIPING, STUB TO SUFACE AS SHOWN.
6. INSTALL WELL BOX. GROUT AROUND PIPE IN BOTTOM.
7. BACKFILL AROUND NEW PIPING WITH CONCRETE SLURRY.
8. REBUILD PAVEMENT/CONCRETE SLAB TO MATCH ORIGINAL CONDITION.

NOTES:

1. EXISITING AMENDMENT WELLS WILL BE CONVERTED TO MONITORING WELLS AS SHOWN ON C-1.
2. WELL BOX WILL BE SIZED TO FIT COMPOMENTS AS SHOWN. BOX SIZE WILL BE DEPENDENT ON DEPTH OF 1" HDPE LINE. BOX SHALL BE SIZED SUCH THAT NEW TEE AND VALVE ARE ACCESSIBLE.

AMENDMENT WELL CONVERSION DETAIL

DETAIL B C-1
NTS



WELL VAULT PLAN VIEW (TYP)

DETAIL D C-1
NTS

100% DESIGN SUBMITTAL

EWB001 EXTRACTION WELLHEAD

DETAIL C C-1
NTS

NO.	DATE	DRWN	CHKD	REMARKS
2	4/2/07	PJR		UPDATED PER BRC COMMENTS
1	3/7/07	PJR	JTB	100% DESIGN SUBMITTAL
0	2/21/07	PJR	JTB	30% DESIGN SUBMITTAL

DESIGNED BY: JTB
DRAWN BY: PJR
SHEET CHK'D BY: JTB
CROSS CHK'D BY: PJE/JRR
APPROVED BY: RS
DATE: APRIL 2007

CDM
consulting engineers environmental operations
18881 Von Karman Avenue, Suite 200
Irvine, CA 92612
Tel: (949) 752-5452 Fax: (949) 752-1307

BOEING REALTY CORPORATION
FORMER C-6 FACILITY LOS ANGELES, CALIFORNIA
FORMER BUILDING 1/36 AREA

PILOT BIORECIRCULATION TEST CIVIL DETAILS

PROJECT NO. 5000-55353
FILE NAME: C-3
SHEET NO. C-3

P:\27[illegible]\Sunrider-infor\ C-3 4/02/07 09:29 riehlepj XREF: [illegible]

BOE-C6-0187297

Appendix G

Appendix G

BASELINE MONITORING FIELD DATA REPORTS

CDM

FIELD DATA REPORT

April 2007 Baseline Monitoring (Round 1) Sampling Plan
Former Building 1/36 Biorecirculation Pilot Test
Site-Specific WDR
Boeing Realty Corporation
Former C-6 Facility
Torrance, California
May 2007

Prepared by:

Tait Environmental Management, Inc.
701 N. Parkcenter Drive
Santa Ana, CA 92705

May 18, 2007

Tait Environmental Management, Inc.
Engineering • Environmental • Compliance

May 18, 2007

Mr. Joseph Weidman
Haley & Aldrich, Inc.
3 West Carrillo St.
Suite 201
Santa Barbara, CA 93101

Subject: Field Data Report for the April 2007 Baseline Monitoring (Round 1) Sampling Plan Former Building 1/36 Biorecirculation Pilot Test Site-Specific WDR at the Boeing Realty Corporation, Former C-6 Facility, Torrance, California

Dear Mr. Weidman:

This report was prepared to summarize and present the field data collected during May 2007 for the April 2007 Baseline Monitoring (Round 1) Sampling Plan Former Building 1/36 Biorecirculation Pilot Test Site-Specific WDR at the Boeing Realty Corporation (BRC), Former C-6 Facility, Torrance, California (Site). The Groundwater Monitoring and Sampling activities were performed in accordance with the following:

April 2007 Baseline Monitoring (Round 1) Sampling Plan Former Building 1/36 Biorecirculation Pilot Test Site-Specific WDR by CDM for Boeing Realty Corporation (BRC), dated April 16, 2007.

Table 1: April 2007 Baseline Monitoring Sampling Plan Former Building 1/36 Site-Specific WDR, Former C-6 Facility Site, Los Angeles, California, from CDM, dated April 16, 2007.

Figure 4: Boeing Realty Corporation Former C-6 Facility Proposed Biorecirculation Pilot Study Well Layout, Former C-6 Facility Site, Los Angeles, California, from CDM, dated April 16, 2007.

The following is a brief summary of our field activities:

- A total of 14 monitoring wells were gauged for depth to water and total depth between May 7th, 2007 and May 10th, 2007 as part of the April 2007 Baseline Monitoring (Round 1) Sampling Plan Former Building 1/36 Biorecirculation Pilot Test Site-Specific WDR. These monitoring wells were also inspected during gauging and sampling activities for any damage or missing materials. A total of 14 monitoring wells were reported to be in good conditions.

- A total of 14 monitoring wells were purged and sampled between May 8th, 2007 and May 10th, 2007 using a Grundfos electrical submersible pump, Monsoon pump (low flow), Horiba water tester with flow through cell and a Solinst water level meter. Ten wells were purged using the low flow purging technique (Monsoon pump) and four wells were purged using the regular purging technique (Grundfos pump). Field instruments were calibrated daily in the field and the calibration data sheets are included in Appendix B.

- A normal turnaround time of 10 days was requested for lab analysis of all samples.

- Purge water (277 gallons) was transported to an onsite storage tank located in the treatment compound.

Please contact the undersigned at (714) 560-8200, if you have any questions or comments. TEM is pleased to be of continued service to Boeing Realty Corporation.

Sincerely,

Tait Environmental Management, Inc.

Carmen Lo
Environmental Analyst

Clara Boeru
Project Manager

Appendices:

A – April 2007 Baseline Monitoring (Round 1) Sampling Plan Former Building 1/36 Biorecirculation Pilot Test Site-Specific WDR, Laboratory Task Order and Pre-field Checklist

B – Daily Field Reports, Health & Safety Meeting Forms, Chain of Custody Records, Groundwater Sampling Data Sheets, Field Instrument Calibration Data Sheets, Investigation Derived Waste (IDW) Inventory Record, QA/QC Sample Identification Forms and Gauging Data Sheets

April 2007 Baseline Monitoring (Round 1) Sampling Plan
Former Building 1/36 Biorecirculation Pilot Test
Site-Specific WDR
Former C-6 Facility
Boeing Realty Corporation
Los Angeles, California

Table 1 presents the details of the first baseline monitoring round that will be required under the pending Site-Specific WDR groundwater monitoring program for the upcoming Former Building 1/36 pilot biorecirculation test. All wells will be gauged prior to collecting groundwater samples to determine static water levels and total well depth. Please note that the amendment wells (well IDs staring with "AW") have been recently exposed for the upcoming pilot study and require a notch or mark to be made on the casing for use as a reference point during the current and future water level measurements. The well locations are shown on the attached figure.

Low-flow purging techniques, to maintain uniform flow rates on the order of 0.1 to 0.5 liters/min, will be used to collect groundwater samples and minimize disturbance to the groundwater in the wells such that drawdown is less than 0.3 foot. Samples collected from each well will be tested for biogeochemical parameters using an YSI unit, field test kits, and fixed-base laboratory analyses. The YSI unit or equal, with a calibrated probe placed in a flow through cell, will be used to measure pH, dissolved oxygen (DO), oxidation-reduction potential (ORP), Electrical Conductivity (EC), and temperature. A turbidity meter (Hach 2100P or equal) shall be used to monitor turbidity of the water during purging. Hach, Inc. field test kits will be used to measure ferrous iron (Fe [II]) manganese, and hydrogen sulfide. During purging, at least pH, conductivity, turbidity, and DO should stabilize such that three successive readings should be within ± 0.1 for pH, ± 3% for conductivity, and ± 10% for turbidity and DO. During the purging, a minimum of one tubing volume (including the volume of water in the pump and flow cell) must be purged prior to recording the water-quality indicator parameters. Following field analyses, groundwater samples will be collected for laboratory analysis as shown on Table 1. All other procedures, including quality assurance (QA) and data validation, will be as described in the 2007 Groundwater Monitoring Work Plan (CDM, February 5, 2007).

Table 1
April 2007 Baseline Monitoring Sampling Plan
Former Building 1/36 Site-Specific WDR
Boeing Reality Corporation, Former C-6 Facility
Los Angeles, California

Well ID	Water Bearing Unit	Well Screen	Sampling Order[1]	Field Parameters and Analytes					
				Water Level Gauging	VOCs (8260B)[2]	Field Parameters and measurements[3]	Total Organic Carbon and Volatile Fatty Acids[4]	Dissolved Gases and Minerals[5]	qPCR and RDase genes (tceA, vcrA, and bvcA)[6]
Amendment Wells									
AW0055UB	B-Sand	2-Inch PVC, No. 20 Slot	---	x	x	x	x	x	x
AW0064UB	B-Sand	2-Inch PVC, No. 20 Slot	---	x	x	x	x	x	x
AW0065UB	B-Sand	2-Inch PVC, No. 20 Slot	---	x	x	x	x	x	x
AW0066UB	B-Sand	2-Inch PVC, No. 20 Slot	---	x	x	x	x	x	x
AW0067UB	B-Sand	2-Inch PVC, No. 20 Slot	---	x	x	x	x	x	x
AW0074UB	B-Sand	2-Inch PVC, No. 20 Slot	---	x	x	x	x	x	x
AW0075UB	B-Sand	2-Inch PVC, No. 20 Slot	---	x	x	x	x	x	x
AW0076UB	B-Sand	2-Inch PVC, No. 20 Slot	---	x	x	x	x	x	x
AW0077UB	B-Sand	2-Inch PVC, No. 20 Slot	---	x	x	x	x	x	x
AW0073C	C-Sand	2-Inch PVC, No. 20 Slot	---	x	x	x	x	x	x
Monitoring Wells									
TMW_07	B-Sand	4-Inch PVC, No. 10 Slot	---	x	x	x	x	x	x
WCC_6S	B-Sand	4-Inch PVC, No. 10 Slot	---	x	x	x	x	x	x
WCC_12S	B-Sand	4-Inch PVC, No. 10 Slot	---	x	x	x	x	x	x
EWB001	B-Sand	6-Inch PVC, No. 20 Slot	---	x	x	x	x	x	x
Quality Control Samples[7]									
Duplicates (1 per 20 wells)					x (1)				
Rinseate Blanks (1 per day)					x (2)				
Trip Blanks (1 per day)					x (2)				

Notes:

[1] Since this is the first sampling event for most of these wells, there is no required sampling order. Sampling order for subsequent events will be based on the results of the most recent sampling data available at the time of sampling

[2] VOCs = Volatile organic compounds by EPA Method 8260B

[3] Field Parameters = pH, Dissolved oxygen (DO), oxidation-reduction potential (ORP), turbidity, Electrical Conductivity (EC), temperature, ferrous iron, manganese, and hydrogen sulfide

[4] Total organic carbon (TOC) by EPA Method 9060 Modified or 415.1 or equal

[4] Volatile Fatty Acids by Ion Chromatography (IC) by Microseeps

[5] Dissolved gases (carbon dioxide, nitrogen, ethane, ethane and methane) by RSK 175 and SM 4500-C (carbon dioxide)

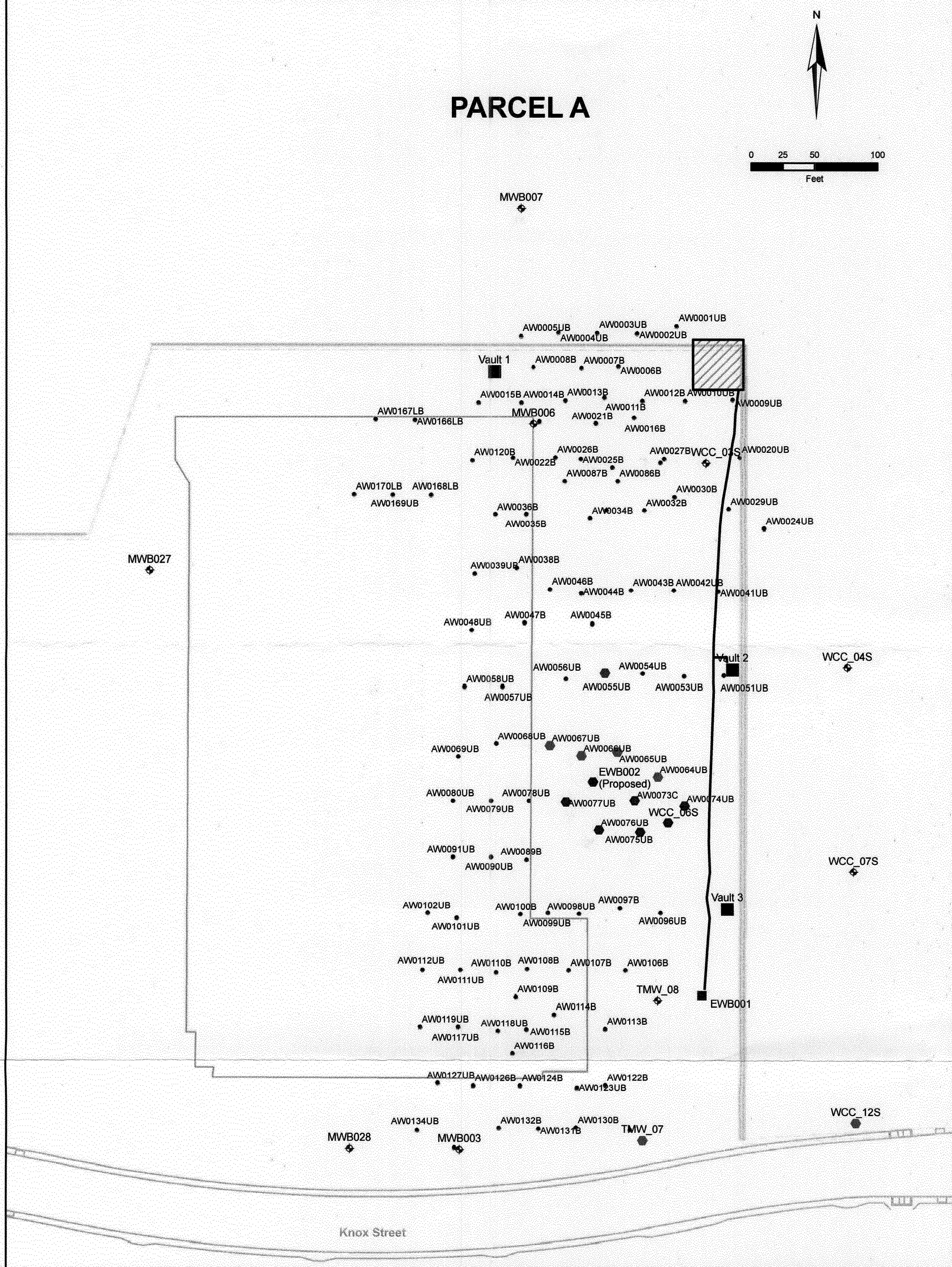
[5] Minerals (sulfate, nitrite, nitrate, ammonia nitrogen, orthophosphate, and chloride) by EPA Method 300 Series or equal, Total alkalinity by EPA Method 310 or equal

[6] qPCR =Quantitative Polymerase Chain Reaction test for Dehalococcoides bacteria and functional gene analyses for the three reductase (RDase) genes - tceA (TCE RDase), vcrA, and bvcA (BAV1 RDase)

[7] Quality control sample number based on estimated number of sampling days.

BOE-C6-0187304

NOTE:
1. Existing well vaults and conveyance piping, as shown, will be used to transport extracted groundwater to the treatment compound and amended water back to select amendment wells.
2. A limited subset of the existing amendment and monitoring wells will be used for the pilot study.



March 5, 2007

CDM

Legend

- Property Boundary
- Parcel Boundary
- Existing Compound
- Existing Vault
- B-Sand Extraction Well
- B-Sand Monitoring Well
- B-Sand Amendment Well
- Existing Spare Electrical Conduit and Water Piping
- Group A Amendment Well (Upper B-Sand)
- Proposed Group B Monitoring Well (Upper B-Sand)
- Group B Monitoring Well ((5) Upper B-Sand and (1) C-Sand)
- Group C Downgradient Well (B-Sand)
- Group D Upgradient Well (Upper B-Sand)

Boeing Realty Corporation
Former C-6 Facility
Proposed Biorecirculation Pilot Study Well Layout

Figure 4

LABORATORY TASK ORDER (LTO) FORM

INSTRUCTIONS: To be completed by Environmental Contractor & Emailed to Laboratory Project Manager, CH2M HILL (boeingedme@ch2m.com) & the Data Validator at Least 48 hrs prior to need for sample containers. Project Analytical Laboratory will confirm receipt via E-Mail.

Event Name: *Baseline Monitoring (Round 1) Groundwater Monitoring Sampling Event April 2007, Former C-6 Facility, Torrance* **Start:** 4/24/2007 **End:** 4/26/2007

LTO DATE: 16-Apr-07 **LTO NUMBER:** LTO-C6SWG041607

Consultant Name:	Tait Environmental Mgmt.	**Contract Laboratory:**	Test America
Address:	701 North Parkcenter Drive Santa Ana, CA 92705	**Address:**	17461 Derian Ave., Suite 100 Irvine, California 92614-5817
Contact Name:	Carmen Lo	**Lab Contact Name:**	Nick Marz
Phone Number:	(714) 560-8614	**Phone Number:**	(949) 261-1022
Fax Number:	(714) 560-8235	**Fax Number:**	(949) 260-3297
E-mail Address:	clo@tait.com	**E-mail Address:**	nmarz@testamericainc.com

SAMPLE CONTAINER ORDER FORM

Date Required: 04/24/07
04/24/2007-
04/26/2007 4:30:00

Date Sample Pickup: PM (estimated)

Ship Containers To:

Project Site ____ *(enter "X")*

Consultant Office X *(enter "X")*

Other Location (specify in comments) ____ *(enter "X")*

Container Information:

Trip Blank (VOA only) Yes *(Yes/No)*
Temp Blank (VOA Only) Yes *(Yes/No)*
DI Water Required? Yes *(Yes/No)*
MS/MSD Extra Bottles? No *(Yes/No)*

Sample Matrix:

Soil ____ *(select all applicable)*
Water X *(select all applicable)*
Vapor ____ *(select all applicable)*

Est. Total # of Samples: 16 Est. Total # of EDDs 4

Requested Analyses: (Specify # of Samples)

	Water	Soil	Vapor
EPA 8015M (GRO)			
EPA 8015M (DRO)			
EPA 8015M (JET FUEL)			
EPA 8015M (CC)			
EPA 8260B (VOC)	32		
	18		
CO2 (SM4500-C)	18		
Sulfate, nitrite, nitrate, ammonia nitrogen, orthophosphate, and chloride (300)	18		
TOC (415.1)	18		
qPCR (Dehalococcoides Bacteria)	18		
VFAs(by IC by Microseeps)	18		
Total Alkalinity (310)	18		
Rdase Gnes (tceA, ccrA, and bvcA)	18		
EPA 625/8270C (SVOC)			
EPA 8310 (PAH)			
EPA 8082 (PCB)			
EPA TO-15 VOCs (Scan)			
EPA TO-15 VOCs (SIM)			
CCR Title 22 Metals			
Total Lead			
Wet Chemistry (pH, etc.)			
General Minerals			
Fish Bioassay			
EPA TO-14 (VOCs)			

LABORATORY REPORTING REQUIREMENTS

Project TAT:

Normal: X (10 Business days)
RUSH: ____ (Specify- 24 / 48 / 72HRS)
Other : ____ (Specify # of Days)
Report Due Date: ____

Laboratory Results/Reports Deliverables:

Draft Results Fax?: No (Yes/No)
Draft Results E-mail?: Yes (Yes/No)

Specify Fax/E-mail Contact Name, #, E-mail Address: clo@tait.com

Send Original Reports To:
Project Site ____ *(enter "X")*
Consultant Office X *(enter "X")*
Other Location (specify in comments) ____ *(enter "X")*
# of Copies Reports Req.: ____

Special Reporting Requirements:

Contingent Analysis? ____ *(Yes/No)*
TIC (VOC) Required? ____ *(Yes/No)*
TIC (SVOC) Required? ____ *(Yes/No)*
Data Validation Pckge.: ____ (Boeing Tier I, II or III)

SPECIAL INSTRUCTIONS/LTO NOTES (PLEASE READ)

[redacted]

CONFIRMATION OF TRANSMITTAL & RECEIPT

LTO Sent By:
Name: Carmen Lo
Date: 04/16/07

LTO Received By:
Name: ____
Date: ____

LTO-C6T04162007
5/14/2007

LABORATORY TASK ORDER (LTO) FORM (PAGE 2)

ADDITIONAL REQUIRED ANALYSES

LTO DATE: 16-Apr-07 **LTO NUMBER:** LTO-C6SWG041607

Consultant Name:	Tait Environmental Mgmt.	**Contract Laboratory:**	Test America
Address:	701 North Parkcenter Drive	Address:	17461 Derian Ave., Suite 100
	Santa Ana, CA 92705		Irvine, California 92614-5817
Contact Name:	Carmen Lo	**Lab Contact Name:**	Nick Marz
Phone Number:	(714) 560-8614	Phone Number:	(949) 261-1022
Fax Number:	(714) 560-8235	Fax Number:	(949) 260-3297
E-mail Address:	clo@tait.com	E-mail Address:	nmarz@testamericainc.com

SAMPLE CONTAINER ORDER FORM (CONTINUED)

Requested Analyses: **(Specify # of Samples)**

	Water	Soil	Vapor
List Method Name/Number Here			

LTO-C6T04162007
5/14/2007

Boeing Pre-Field Activities Checklist

This pre-field activities checklist has been prepared to facilitate compliance with work plans, protocols, permits, and procedures.

Boeing Project Name: BRC- Former C-6 Facility
Field Activity: April 2007 Baseline Groundwater Monitoring

Date: 4/16/07
Field Work Start Date: 4/24/07

Contact Information:

Consultant/Contractor (Person & phone #)

Project Manager	Mehmet Pehlivan 714-560-8613
Project Engineer/Scientist	Clara Boeru 714-560-8658
Chief Field Engineer/Technician	Lester Widner 714-657-6386
Health & Safety Officer:	Tom Dixon 714-560-8684
Sampling Technician	Jorge Armendariz 714-719-6897
Other (Field Testing/Data Entry)	Carmen Lo 714-412-9922
Other (Sampling Tech)	Stan Ruszkiewicz 714-719-6893

Boeing

Project Managers	Robert Scott 562-497-6176 Joe Weidmann (H&A) 805-451-2320 (cell)
Technical Specialist	Ravi Subramanian (CDM) 949-752-5452 Beth Breitenbach (H&A) 619-285-7109
Facility Contact: South of Knox	Daniel Hess and Tony Mok (Sunrider) to be notified by H&A Chi Chi Tsai 310-222-9170 (locked areas) Bob Williams –Sunrider onsite contractor 909-200-5690
North of Knox	Jun Heramia (CTSI Logistics) to be notified by H&A Lib Madamba 310-381-9866
South of Francisco Montrose Wells	Robert Hsu (323) 321-2307 or (310) 323-8840 Robert Neuman (Earth Tech) (562) 951-2348 Or (562) 577-6044 (Cell)- Brian Dean (Earth Tech) (562) 951-2212 or 310-251-0579(cell) Paul Sunberg (Montrose) (209) 474-3617
Permits/H&S Contact	Dennis Carlson (818) 535-7438
Waste Disposal Specialist	Scott Lattimore (562) 593-7156
Legal:	
Other:	

Subcontractors (as applicable)

No. 1	TestAmerica Services (949) 261-1022 (Lab Analysis)
No. 2	KM Industrial, Inc. (562) 983- 5191 (Waste Transport/Disposal) DemennoKerdoon: (310)537-7100 (TSDF)
No. 3	Laboratory Data Consultants (760) 634- 0437 (Data Validation)
No. 4	_____

Work Plans

- ☐ Work Plan prepared for work? Yes
- ☐ Name of Work Plan & Date. April 2007 Baseline Groundwater Monitoring Work Plan
- ☐ Was Work Plan Submitted to a regulatory Agency for approval? Yes
- ☐ Was approval received? Pending Date?
- ☐ Is Work Plan latest version? Yes
- ☐ Type of Work to be performed? Groundwater sampling and monitoring per the Work Plan, the WDR permit requirements and Sampling and Analysis Plan

Technical/Site-Specific

- ☐ Have work locations been marked? Yes
- ☐ Are there any obstacles to performing work? No
- ☐ If yes-method to clear obstacles?

Health & Safety

- ☐ Health & Safety Plan Submitted to Agency? Yes, during previous events
- ☐ Health & Safety Plan reviewed by Field Team? Yes
- ☐ Proper PPE on Site? Team carries their own
- ☐ Extra PPE for Visitors? NA
- ☐ Have OSHA Certificates and currency been confirmed for workers? Yes
- ☐ Any Excavations? No
  If yes, then have geotechnical calculations/considerations been completed? By whom?_____Third Party & Registered?_____
- ☐ Health & Safety Officer __Tom Dixon_____
- ☐ Perform subcontractor equipment safety audit prior to work start (guards, safety switches, General equipment condition)
- ☐ Pre-Field Tailgate Meetings:
  Worker Safety--onsite
  Equipment Safety--onsite
- ☐ Vehicular Safety--onsite
- ☐ Daily Tailgate/Safety Briefings--onsite

- ☐ Safety Zones established and how maintained? Yes, Team uses cones to delineate the work area

Utilities (NA)

- ☐ Have utilities been researched?
- ☐ Are utility plans available?
- ☐ Have utility plans been reviewed for work conflicts?
- ☐ If yes, what plans _____
- ☐ Has site been field-checked for utilities?
- ☐ Has DigSafe/DigAlert been notified? Confirmation #: _____NA_____
- ☐ Has independent utility locator service been completed?
- ☐ Any overhead utility present that may interfere with work?
- ☐ If yes, can work be moved?
- ☐ Will hand-augering be conducted? To what depth? _____
- ☐ Is any utility lock-out/tag-out needed?
- ☐ Other

Legal

- ☐ Confirm with Boeing Project Manager that legal issues are in order to perform field work. No legal issue to prevent the field work
- ☐ Do Proposition 65 notifications need to be posted at the site? No

Access Agreements

- ☐ Confirm with Boeing Project Manager if access agreements are needed. Done
- ☐ Are special pre-work notifications required by the access agreements? Yes, Done by Haley and Aldrich and field team to notify tenant before entering the site/property
- ☐ Who is the on-Site contact/tele # for work to be performed? Lester Widner (714) 657-6386
- ☐ Are copies of access agreements needed on site? No
- ☐ Do special work conditions need to be maintained per the access agreement? No
- ☐ Are there special work hours per the access agreement? during normal business hours
- ☐ Are traffic plans or traffic control necessary for work? ____No Plans, Use cones and caution tapes around the immediate work area_____
- ☐ Other

Notifications

- ☐ Has Boeing Project Manager been notified of the work start date/time? Yes
- ☐ Has Boeing Technical Specialist been notified of the work start date/time? Yes
- ☐ Has Boeing Permit Specialist been notified of the work start date/time? Yes
- ☐ Has Boeing Waste Disposal Specialist been notified of the work start date/time? Yes

- ☐ Is Regulatory Agency (ies) notification Required? Yes one week prior to sampling
  - ☐ Lead Agency CRWQCB
  - ☐ Support Agency _____
  - ☐ Local Agency _____
  - ☐ Other: _____
- ☐ If yes-what advance notice is required?
- ☐ Have they been notified? When_____
- ☐ Has laboratory been notified of incoming samples?

Permits/Regulatory Agencies/Licenses

- ☐ Lead Regulatory Agency/Contact CRWQCB-LA – Ana Townsend
- ☐ Additional Regulatory Agencies:
  - ☐ Air Quality Agency
  - ☐ County Health Department
  - ☐ City Health Department
  - ☐ City Building Department
- ☐ Are permits required for work? Yes
  - ☐ Drilling Permit
  - ☐ WDR/Waste Discharge Permit Permit Order No. R4-2002-0030. February 4, 2003
  - ☐ Excavation Permit
  - ☐ Rule 1166 Mitigation Plan/Permit
  - ☐ Grading Permit
  - ☐ City Business License
  - ☐ Other
- ☐ **Has Boeing Permit Specialist reviewed and approved the permits for performing the work? (NA)**
- ☐ Are pre-work notifications required for permits? No
- ☐ If yes, which permits and how much advance notice _____
- ☐ Are there any conditions in the permit that could stop work?
- ☐ If yes, what are the conditions? _____
- ☐ Do mitigation measures exist if these conditions occur?_____
- ☐ What licenses are required to do work?_____
- ☐ Have contractor licenses been verified _____

Waste Management

- ☐ Type(s) of waste to be generated. Purged Groundwater
- ☐ Anticipated Volume to be generated. 2,800 gallons
- ☐ How will each type of waste be stored?

Water Purged into drums, from which water will be transferred and stored in a tank within the SVE compound by the end of each sampling day.
Soil
PPE
Other

- ☐ Has Boeing Waste Specialist been notified? Yes Who? Scott Lattimore, and Dennis Carlson
- ☐ Have proper containers been coordinated through Boeing Waste Specialist? Yes
- ☐ If not-why? _____
- ☐ Have proper waste container labels and labeling procedures been obtained from the Boeing Waste Specialist? Field team to provide labels in accordance with the standard waste handling protocol applicable to the site.
- ☐ How will waste be profiled? Non-haz pending lab data
- ☐ Any special waste handling/disposal needs? Yes (All purge water will be stored in onsite storage tank in the SVE compound. All empty drums need to be stored in SVE compound during sampling and moved offsite after sampling). Waste water will be disposed of by KM industrial using previously established waste profile.

Portal/EDMS

- ☐ Have Sample/Object Numbers/Names been obtained from CH2Mhill? N/A Sample ID in accordance with DMP based on Object IDs from the portal. Notified CH2Mhill for sampling Schedule
- ☐ Other

Schedule

- ☐ Scheduled start date of field work 04/24/07
- ☐ Expected duration of field work 2-3 working days
- ☐ Contingency plan if work goes longer Field team is available to complete

Financial

- ☐ Has Boeing approved work order for work? Yes, under a general contract
- ☐ Is there a potential for scope/cost changes? No
- ☐ If yes-is change-order process established with Boeing Project Manager?

Person Filling out Checklist: **Carmen Lo / Mehmet Pehlivan**

Tait Environmental Management, Inc.

Engineering • Environmental • Compliance

DAILY FIELD REPORT

Project Name: BUENG C-6	**Project #:** EN-277	**Date:** 5/7/07
Personnel: LW, [illegible] JA	**Sub Contractors:** NONE	

Task: GW GURGING IDENTIFING WELLS

Time Arrived at Site: 6:30	**Time Left Site:**	**Total Hours at Site:**
Odometer (Start):	**Odometer (End):**	**Total Miles:**

Equipment List:

- [x] Solinst Water Level Meter Serial #: #44249
- [ ] Solinst Water/Product Level Interface Meter Serial #: _____
- [ ] Horiba U-22 Water Quality Meter Serial #: _____
- [ ] PID/FID Type: _____ Serial #: _____
- [ ] Submbersible Pump Type: _____ Serial #: _____
- [ ] Generator Type: _____ Serial #: _____
- [ ] Company Truck License #: _____
- [ ] Other(s): _____

Desription of Work Performed: (Summarize all field activities in a chronological sequence. Include tailgate health and safety meeting, personnel/visitors at site, calibration times and methods.)

5:30 P/U ICE AND GAS
6:30 ARRIVED ON SITE TAILGATE MEETING.
GEORGE LOADS 3 BUCKET WASH ON TRUCK. TO START
GURGEING WELLS.

Client Signature (if applicable): _____ **Date:** _____

Page ___ of ___

Tait Environmental Management, Inc.

Project Name: BOENG C-6	Project #: EM-2727	Date: 5/7/07

HE STARTED GUAGING. I WENT TO HOME DEPOT FOR MATERIAL.

745 - BACK FROM HOME DEPOT GAVE MATERIAL TO GEORGE - WE MARKED WELLS. GAVE GEORGE A LIST WHAT TO DO TODAY.

9:00 I LEFT C-6 TO WAREHOUSE

Tait Environmental Management, Inc.

Engineers • Scientists • Consultants

DAILY FIELD REPORT

Project Name: BASELINE MAY 2007	**Project #:** EM 2727-01	**Date:** 5/8/07
Personnel: LW, JA, CARMON	**Sub Contractors:** NONE	

Task: GROUNDWATER PURGING AND SAMPLING

Time Arrived at Site: 6:30	**Time Left Site:**	**Total Hours at Site:**
Odometer (Start):	**Odometer (End):**	**Total Miles:**

Equipment List:

- ☒ Solinst Water Level Meter Serial #: #44249
- ☐ Solinst Water/Product Level Interface Meter Serial #: _____
- ☒ Horiba U-22 Water Quality Meter Serial #: 01-022
- ☐ PID/FID Type: _____ Serial #: _____
- ☐ Submbersible Pump Type: _____ Serial #: _____
- ☒ ~~Generator~~ INVERTOR Type: N/A Serial #: #01
- ☒ Company Truck License #: _____
- ☐ Other(s): _____

Desription of Work Performed: (Summarize all field activities in a chronological sequence. Include tailgate health and safety meeting, personnel/visitors at site, calibration times and methods.)

5:30 - P/U ICE AND WATER
6:00 ARRIVED ON SITE. ORGANIZED PAPERWORK.
6:45 DENNIS ARRIVED. WENT OVER SAMPLING TECHNIQUES
WE NEED LOW FLOW PUMPS. (MONSOON)

Client Signature (if applicable): _____ **Date:** _____

Page ___ of ___

Tait Environmental Management, Inc.

Engineering • Environmental • Compliance

Project Name: BASELINE MAY 2007	Project #: EM 2727-01	Date: 5/8/07

- CALLED CLARA. I WILL P/U PUMPS AND GO TO OFFICE AND CALCULATED AMOUNT OF WATER WE NEED TO PURGE. WE HAD TAILGATE MEETING. EVERYTHING O.K.

8:15 HELP GEORGE SET UP ON WCC-6S. HIS OTHER WELLS WILL BE EWB001 & TMW07.

8:45 CARMEN ARRIVED. WE WENT OVER. COC'S GAVE HER A LIST OF WELLS. WE MADE UP TRIP BLANKS AND OTHER BLANKS

HELPED GEORGE WITH WCC-6S WHEN FINISHED HE TOOK SAMPLES. I DID BLANKS.

1105 LEFT SITE to BISCO & OFFICE.

1155 DROPPED OFF GRUNDFOS PUMP AT GED TECHNICAL

1230 ARRIVED AT OFFICE. CLARA AND I WENT OVER PROCOTOCOL FOR LOW FLOW SAMPLING. MADE UP PAPERWORK AND NOTEBOOK, FOR LOW FLOW SAMPLING. CALLED BISCO TO ~~RESERVE~~ RESERVE MONSOON PUMPS

1600 LEFT OFFICE TO P/U EQUIPMENT

1615 ARRIVED AT C-6 DROPPED OFF EQUIPMENT.

1730 LEFT ~~THE~~ SITE GO HOME

1800 - CHARGED 12.5 HRS

Tait Environmental Management, Inc.

DAILY FIELD REPORT

Project Name: C-6 BASELINE MAY 2007	**Project #:** BM-2727-01	**Date:** 5/9/07
Personnel: WM, JA, BRNEN	**Sub Contractors:** NO	

Task: PURGING AND SAMPLING GW

Time Arrived at Site: 615	**Time Left Site:**	**Total Hours at Site:**
Odometer (Start):	**Odometer (End):**	**Total Miles:**

Equipment List:

- ☒ Solinst Water Level Meter Serial #: _____
- ☐ Solinst Water/Product Level Interface Meter Serial #: _____
- ☒ Horiba U-22 Water Quality Meter Serial #: U22-#02
- ☐ PID/FID Type: _____ Serial #: _____
- ☐ Submbersible Pump Type: _____ Serial #: _____
- ☐ Generator Type: _____ Serial #: _____
- ☒ Company Truck License #: _____
- ☐ Other(s): _____

Desription of Work Performed: (Summarize all field activities in a chronological sequence. Include tailgate health and safety meeting, personnel/visitors at site, calibration times and methods.)

5:30 P/U ICE AND GAS
6:15 ARRIVED ON SITE. WENT OVER LOW-FLOW WITH GEORGE TAILGATE MEETING. FILLED OUT PAPERWORK LOADED MY TRUCK

Client Signature (if applicable): _____ **Date:** _____

Page ___ of ___

Talt Environmental Management, Inc.

Project Name: C-6 BASELINE MAY 2007	Project #: EM-2722-01	Date: 5/9/07

7:20 WAITING FOR LAB. CALIBRATED EQUIPMENT
800 CARMEN CALLED. STILL WAITING FOR LAB.
8:30 CARMEN CALLED BACK. TOLD US TO STOP PURGING WELL. WAIT FOR TEST AMERICA TO DELIVER BOTTLES
900 I DECIDED GEORGE WILL PURGED WCC-12S. AND SAMPLE. I WILL SAMPLE LATER WITH BAILER.
910 I WENT TO GEO TECH TO P/U BAILERS, ~~and~~ TEST AMERICA AND OFFICE P/U PAPERWORK.
1030 ARRIVED at TEST AMERICA WAITED FOR BOTTLES
1110 BOTTLES ARRIVED. ON TO C-6. HOME DEPOT P/U MATERIAL..
1245 ARRIVED at SITE GEORGE STARTED AW007SRB. CARMEN ORGANIZED BOTTLES. I HELP GEORGE WITH WELL # 75. LITTLE TRAINING.
1445 SAMPLED WELLS FROM YESTERDAY.
1600 MADE UP WATER BLANK. ICE DOWN SAMPLES
1635 CLEANED UP. FINISHED PAPERWORK. 1700: LAB ARRIVED
1730 LEFT SITE — 1800 - ARRIVED HOME.

Tait Environmental Management, Inc.

DAILY FIELD REPORT

Project Name: C6 BASELINE MAY 2007	**Project #:** EMA-2727-01	**Date:** 5/10/07
Personnel: LW, BA, BARNEN	**Sub Contractors:** NONE	

Task: GW SAMPLING & PURGING

Time Arrived at Site: 6:30	**Time Left Site:**	**Total Hours at Site:**
Odometer (Start):	**Odometer (End):**	**Total Miles:**

Equipment List:

- [x] Solinst Water Level Meter Serial #: Ø NRA
- [ ] Solinst Water/Product Level Interface Meter Serial #: _____
- [x] Horiba U-22 Water Quality Meter Serial #: #2
- [ ] PID/FID Type: _____ Serial #: _____
- [ ] Submbersible Pump Type: _____ Serial #: _____
- [ ] Generator Type: _____ Serial #: _____
- [x] Company Truck License #: _____
- [ ] Other(s): _____

Desription of Work Performed: (Summarize all field activities in a chronological sequence. Include tailgate health and safety meeting, personnel/visitors at site, calibration times and methods.)

5:30 - P/U ICE.
6:15 ARRIVED ON SITE. GEORGE GETTING READY FOR SAMPLING, TAILGATE MEETING..
630 CALIBRATED EQUIPMENT

Client Signature (if applicable): _____ **Date:** _____

Page ___ of ___

Tait Environmental Management, Inc.

Project Name: C-6 BASELINE May 2007	Project #: EM-2727-01	Date: 5/10/07

7:00 LOADING UP TRUCK W/ EQUIPMENT. GEORGE HAVING TROUBLE WITH PUMP HELP HIM.

7:30 SET-UP ON 65. STARTED PURGING AT 8:00

8:24 FINISHED PURGING. 830 & 840 TOOK SAMPLES & DUPS CLEANED UP.

850 GEORGE'S PUMP NOT WORKING. GEORGE TOOK MY PUMP.

910 I REPLACE motor in other pump. TESTED PUMP O.K.

1000. SET-UP ON 55.

1030 STARTED PURGING.

1051 FINISHED PURGING 11:00 SAMPLED WELL.

1120 CLEANED UP OFF TO COMPOUND.

1130 GEORGE HAVING TROUBLE WITH PUMP AGAIN. HELPED AGAIN.

1155 PUMP WORKING.

1200 MAKE UP WATER BLANK

1230 WORKED ON PAPER WORK.

1300 HELPED GEORGE WITH LAST WELL.

1345 SAMPLED WELL. CLEANED UP.

Tait Environmental Management, Inc.

Engineering • Environmental • Compliance

Project Name: C6 BASELINE May 2007	Project #: EM-2727-01	Date: 5/11/07

10:00 LEFT TO TEST ANOTICA TO DROPPED EXTRA EQUIPMENT

11:30 ARRIVED AT OFFICE. FINISHED UP PAPERWORK

GAVE EVERYTHING TO CLARA.

1400 FINISHED. 4 HRS

Taft Environmental Management, Inc.

DAILY FIELD REPORT

Project Name:	Baseline C-6 Torrance	**Project #:**	EM2727	**Date:**	05/08/07
Personnel:	CL.	**Sub Contractors:**	–		

Task: Conducting GWS.

Time Arrived at Site:	7:30.	**Time Left Site:**	4:30.	**Total Hours at Site:**	9–
Odometer (Start):		**Odometer (End):**		**Total Miles:**	

Equipment List:

- ☐ Solinst Water Level Meter Serial #: _____
- ☐ Solinst Water/Product Level Interface Meter Serial #: _____
- ☐ Horiba U-22 Water Quality Meter Serial #: _____
- ☐ PID/FID Type: _____ Serial #: _____
- ☐ Submbersible Pump Type: _____ Serial #: _____
- ☐ Generator Type: _____ Serial #: _____
- ☐ Company Truck License #: _____
- ☒ Other(s): Hach DR1890

Desription of Work Performed: (Summarize all field activities in a chronological sequence. Include tailgate health and safety meeting, personnel/visitors at site, calibration times and methods.)

7:00 Stopped by Walmart get ice & water

7:30 prepared Labels & Bottles for Sampling.

Client Signature (if applicable): _____ **Date:** _____

Page ___ of ___

Tait Environmental Management, Inc.

Project Name: Baseline C-6 Torrance	Project #: EM2727-01	Date: 05/08/07

Conducting Ferrous Iron Test
Ele. Co°C.
Talked to Nick M (TA) for
qPCR & RDase Genes Samples.
4:30 Left site & delivered
samples to TA.

BOE-C6-0187323

Tait Environmental Management, Inc.

DAILY FIELD REPORT

Project Name: Baseline C-6 Torrance	**Project #:** EM2727	**Date:** 05/09/07	
Personnel: C6	**Sub Contractors:**		

Task: ~~G~~ Conducting GWS.

Time Arrived at Site: 7:30	**Time Left Site:** 5:00	**Total Hours at Site:** ~9.5
Odometer (Start):	**Odometer (End):**	**Total Miles:**

Equipment List:

- ☐ Solinst Water Level Meter Serial #: _____
- ☐ Solinst Water/Product Level Interface Meter Serial #: _____
- ☐ Horiba U-22 Water Quality Meter Serial #: _____
- ☐ PID/FID Type: _____ Serial #: _____
- ☐ Submbersible Pump Type: _____ Serial #: _____
- ☐ Generator Type: _____ Serial #: _____
- ☐ Company Truck License #: _____
- ☒ Other(s): Hach DR 1890

Desription of Work Performed: (Summarize all field activities in a chronological sequence. Include tailgate health and safety meeting, personnel/visitors at site, calibration times and methods.)

7:00 Get ice
talked to Nick M. about
the containes from North
Wind

Client Signature (if applicable): _____ **Date:** _____

Page ___ of ___

Tait Environmental Management, Inc.

Project Name: Baseline C-6 Torrance	Project #: TM2727	Date: 05/09/07

7:30 talked to JA / CW / CB about the Containers.

8:00 Labels & Contains. File. COC. on site Testing.

5:00 Left site

Page ___ of ___

Tait Environmental Management, Inc.

DAILY FIELD REPORT

Project Name:	C-6 Baseline & Torrance 2006	**Project #:** 341727-0	**Date:** 05/10/07
Personnel:	CL	**Sub Contractors:** –	

Task: Conducting groundwater Sampling Event.

Time Arrived at Site: 7:30	**Time Left Site:** 15:00	**Total Hours at Site:** ~ 8.5
Odometer (Start):	**Odometer (End):**	**Total Miles:**

Equipment List:

- ☐ Solinst Water Level Meter Serial #: _____
- ☐ Solinst Water/Product Level Interface Meter Serial #: _____
- ☐ Horiba U-22 Water Quality Meter Serial #: _____
- ☐ PID/FID Type: _____ Serial #: _____
- ☐ Submbersible Pump Type: _____ Serial #: _____
- ☐ Generator Type: _____ Serial #: _____
- ☐ Company Truck License #: _____
- ☒ Other(s): Hach DR1890

Desription of Work Performed: (Summarize all field activities in a chronological sequence. Include tailgate health and safety meeting, personnel/visitors at site, calibration times and methods.)

7:30 Get ice
8:00 Prepared containers
file COC
Ferrous Iron test

Client Signature (if applicable): _____ **Date:** _____

Page ___ of ___

Tait Environmental Management, Inc.

Project Name:	C-6 Baseline Torrance, 2007	Project #:	EM2727-06	Date:	03/10/07

Cleaned up compound
talked to Clara B. about
the GWS Event & Data
Validation Reports for C-6
from Dec 2006 - March 2007.
Talked to Nick M (7A)
to cancel Pick up today
will drop off to the lab
15:00 droped off Samples to
the lab

Page ___ of ___

Tait Environmental Management, Inc.

DAILY FIELD REPORT

Project Name: C-6 TORRANCE, BASELINE	**Project #:** 2727-01	**Date:** 5-8-07
Personnel: J. ARMENDARIZ	**Sub Contractors:**	

Task: GROUND WATER SAMPLING

Time Arrived at Site:	**Time Left Site:**	**Total Hours at Site:**
Odometer (Start):	**Odometer (End):**	**Total Miles:**

Equipment List:

- [x] Solinst Water Level Meter Serial #: 44249
- [ ] Solinst Water/Product Level Interface Meter Serial #: _____
- [x] Horiba U-22 Water Quality Meter Serial #: 01
- [ ] PID/FID Type: _____ Serial #: _____
- [x] Submbersible Pump Type: 2" GRUNDS Serial #: 02
- [ ] Generator Type: _____ Serial #: _____
- [ ] Company Truck License #: 6P41975
- [ ] Other(s): _____

Desription of Work Performed: (Summarize all field activities in a chronological sequence. Include tailgate health and safety meeting, personnel/visitors at site, calibration times and methods.)

Client Signature (if applicable): _____ **Date:** _____

Tait Environmental Management, Inc.

Project Name: C-6 TOLERANCE, BASELINE	Project #: 2727-01	Date: 5-8-07

0600 ARRIVED ON SITE, LOADED EQUIPMENT

0630 LESTER, DENNIS, AND MYSELF LISTENED IN AT SAFETY KICK OFF MEETING.

0730 SET-UP & DROPPED PUMP IN WELL

0800 PULLED OUT & SWAPED PUMPS FROM GEOTECHS TO OURS (TAIT GP 02).

0832 BEGAN PURGING WELL WCC-06S (50 GLS)

1043 SAMPLED WELL

1130 ARRIVED AT WELL EW8001

1140 HAD TO FISH TUBING OUT.

1206 BEGAN PURGING WELL

1344 SAMPLED WELL. (129 GLS)

1440 SET UP AT WELL TMW-07

1512 BEGAN PURGING (10.5 GLS)

1526 SAMPLED WELL

1600 ARRIVED AT COMPOUND TO OFF LOAD & CLEAN

1630 LEFT FOR HOME.

BOE-C6-0187329

Tait Environmental Management, Inc.

DAILY FIELD REPORT

Project Name: C-6 Tolling Baseline	**Project #:** 2727-01	**Date:** 5-9-07
Personnel: Jorge Almendarez	**Sub Contractors:**	

Task: WATER SAMPLING

Time Arrived at Site:	**Time Left Site:**	**Total Hours at Site:**
Odometer (Start):	**Odometer (End):**	**Total Miles:**

Equipment List:

- [x] Solinst Water Level Meter Serial #: 44249
- [ ] Solinst Water/Product Level Interface Meter Serial #: _____
- [x] Horiba U-22 Water Quality Meter Serial #: 01
- [ ] PID/FID Type: _____ Serial #: _____
- [x] Submbersible Pump Type: 2" GRUNDFOS / MONSOON Serial #: 02
- [ ] Generator Type: _____ Serial #: _____
- [x] Company Truck License #: 6P41975
- [ ] Other(s): _____

Desription of Work Performed: (Summarize all field activities in a chronological sequence. Include tailgate health and safety meeting, personnel/visitors at site, calibration times and methods.)

Client Signature (if applicable): _____ **Date:** _____

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Tait Environmental Management, Inc.

Project Name: C-6 TRIANGLE, BASELINE	Project #: 2727-01	Date: 5-9-07

0600 - ARRIVED ON SITE, LOADED & CALIBRATED EQUIPMENT.
0742 PURGED WELL AW0074UB (8.12 L)
0803 SAMPLED WELL
0845 ARRIVED AT WELL AW0075UB
• SET-UP AT WELL. LESTER ARRIVED AND WANTED TO HOLD OFF ON PURGING.
• LESTER WANTS ME TO BREAK DOWN, PICK UP THE EQUIPMENT AND GO TO WELL WCC-12S.
0930 ARRIVED AT WELL WCC-12S
0952 BEGAN PURGING (66 GLS).
1059 SAMPLED WELL
* 1034 DENNIS ARRIVES AND ASKS FOR A STATUS OF WELLS.
• RECEIVED A CALL FROM LESTER TO SET-UP AT AW0075UB
1145 ARRIVED AND SET-UP / WAITING FOR LESTER.
1244 BEGAN PURGING (9 L)
1258 SAMPLE TIME.
1419 BEGAN PURGING AW0076UB (9 L)
1432 SAMPLED WELL
1548 BEGAN PURGING WELL AW0064UB (9 L)
1601 SAMPLED WELL.

BOE-C6-0187331

Tait Environmental Management, Inc.

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DAILY FIELD REPORT

Project Name: C6 TOLERANCE BASELINE	**Project #:** 272201	**Date:** 5-10-07
Personnel: J. ARMENDARIZ	**Sub Contractors:**	

Task: GROUND WATER SAMPLING

Time Arrived at Site:	**Time Left Site:**	**Total Hours at Site:**
Odometer (Start):	**Odometer (End):**	**Total Miles:**

Equipment List:

- [x] Solinst Water Level Meter Serial #: 44249
- [ ] Solinst Water/Product Level Interface Meter Serial #: _____
- [x] Horiba U-22 Water Quality Meter Serial #: 01
- [ ] PID/FID Type: _____ Serial #: _____
- [x] Submbersible Pump Type: MONSOON Serial #: _____
- [ ] Generator Type: _____ Serial #: _____
- [x] Company Truck License #: 6841975
- [ ] Other(s): _____

Desription of Work Performed: (Summarize all field activities in a chronological sequence. Include tailgate health and safety meeting, personnel/visitors at site, calibration times and methods.)

Client Signature (if applicable): _____ **Date:** _____

Page ___ of ___

Tait Environmental Management, Inc.

J. Armbruster

Project Name: C-6 TORRANCE, BASELINE	Project #: 2727-01	Date: 5-10-07

0600 ARRIVED ON SITE
· LOADED AND CALIBRATED EQUIPMENT
0630 SET-UP AT WELL AW00060B
0711 BEGAN PURGING (6.L)
0724 SAMPLED WELL.
0830 ARRIVED AT WELL & BEGAN SET UP. AW00067B
0900 BEGAN PURGING BUT NO WATER CAME UP DUE TOO HIGH TURBIDITY
· BROUGHT PUMP OUT OF WELL & RE-RINSED.
0914 BEGAN PURGING (7.L)
0927 SAMPLED WELL
1100 ARRIVED AT WELL AW00077B & SET UP EQUIPMENT
· WHEN BEGINNING PURGE NO WATER CAME UP SO I CALLED LESTER. WATER WAS REALLY TURBID W/ MUCH SILT.
· AFTER TESTING PUMP LESTER SWAPED PUMPS WITH ME.
1150 BEGAN PURGING WELL (7.L)
1203 SAMPLED WELL.
1250 ARRIVED AND SET UP AT WELL AW00073C
1320 BEGAN PURGING (12.L)
1345 SAMPLED WELL
1430 WENT TO COMPOUND TO UNLOAD EQUIPMENT
1500 LEFT FOR HOME.

Tait Environmental Management, Inc.
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DAILY FIELD WORK REPORT
(continued)

PROJECT NAME C-6 BASELINE TOXICITY	PROJECT NUMBER 2727-01
REPORT DATE 5-11-07	PREPARED BY Jim Armstrong

1000 ARRIVED AT COMPOUND
• CLEANED UP, LOADED EQUIPMENT FOR WARE HOUSE & DUMPED TRASH.
1100 LEFT FOR WAREHOUSE
1130 ARRIVED AND BEGAN OFF LOADING.
1148 LEFT FOR OFFICE.
1200 ARRIVED AT OFFICE
1300 LEFT FOR HOME.

Tait Environmental Management, Inc.

Daily Tailgate Health & Safety Meeting Agreement and Acknowledgement Sheet

Project Name: Boeing C-6	**Project #:** EM-2727-01
Site/Area Location/Well ID: C-6	
Date(s) Work Performed: 5/7/07	**Time:** 6:30
Name Of Person Giving Tailgate **Print Name:** Lester Wisner **Signature:** Lester Wisner	**Affiliation:** NONE
Site-Specific Health & Safety Meeting Topics: TRAFFIC	

I have reviewed the plan, understand it, and agree to comply with all of the health and safety requirements. I understand that I may be prohibited from working on the project for violating any of the requirements. Visitors will be required to be escorted in the restricted access zone. Visitors must comply with Tait Environmental Management, Inc. escort directions while on site at all times. Non-compliance with escort directions will not be tolerated, and violators will be requested to leave the site immediately.

A physician based on medical examination has approved me to wear a respirator. I have been trained in the appropriate use, care, and storage of respiratory equipment. I have been respirator fit tested; and I have my respirator available for use in the field. I understand that I am to use the equipment supplied to me by my employer. I further understand that this equipment is provided solely for my benefit with the intent to minimize my exposure to potentially hazardous conditions. In the event of such usage, I agree to indemnify and hold harmless Tait Environmental Management, Inc. and all of its employees from and against any and all losses, demands, claims, liabilities, lawsuits, damages, costs, and expenses arising, in any way, from the use of the equipment.

Date	Name	Company Name	Signature
5/7/07	Lester Wisner	Tait	Lester Wisner
5/7/07	Jorge Armendariz	TAIT	Jorge Armendariz

Page __ of __

Tait Environmental Management, Inc.
Engineering • Environmental • Compliance

Daily Tailgate Health & Safety Meeting
Agreement and Acknowledgement Sheet

Project Name: C-6 BASELINE MAY 2007	**Project #:** EMA-2727-01
Site/Area Location/Well ID: C-6	
Date(s) Work Performed: 5/9/07	**Time:** 630
Name Of Person Giving Tailgate **Print Name:** LESTER WIDNER **Signature:** Lester Widner	**Affiliation:** T
Site-Specific Health & Safety Meeting Topics: TRAFFIC - SLIPS, TRIPS AND FALLS, HEAT DRINK PLENTY OF WATER	

I have reviewed the plan, understand it, and agree to comply with all of the health and safety requirements. I understand that I may be prohibited from working on the project for violating any of the requirements. Visitors will be required to be escorted in the restricted access zone. Visitors must comply with Tait Environmental Management, Inc. escort directions while on site at all times. Non-compliance with escort directions will not be tolerated, and violators will be requested to leave the site immediately.

A physician based on medical examination has approved me to wear a respirator. I have been trained in the appropriate use, care, and storage of respiratory equipment. I have been respirator fit tested; and I have my respirator available for use in the field. I understand that I am to use the equipment supplied to me by my employer. I further understand that this equipment is provided solely for my benefit with the intent to minimize my exposure to potentially hazardous conditions. In the event of such usage, I agree to indemnify and hold harmless Tait Environmental Management, Inc. and all of its employees from and against any and all losses, demands, claims, liabilities, lawsuits, damages, costs, and expenses arising, in any way, from the use of the equipment.

Date	Name	Company Name	Signature
5/9/07	LESTER WIDNER	TAIT	Lester Widner
5/9/07	JORGE ARMENDARIZ	TAIT	Jorge Armendariz
5/9/07	Carmen Lo	TAIT	Carmen Lo

Tait Environmental Management, Inc.
Engineering • Environmental • Compliance

Daily Tailgate Health & Safety Meeting Agreement and Acknowledgement Sheet

Project Name: C-6 BASELINE MAY 2007	**Project #:** GM. 2727-01
Site/Area Location/Well ID: C-6	
Date(s) Work Performed: 5/10/07	**Time:** 630
Name Of Person Giving Tailgate **Print Name:** LESTER WIGNOR **Signature:**	**Affiliation:** NONE
Site-Specific Health & Safety Meeting Topics: HEAT SLIPS, TRIPS AND FALLS	

I have reviewed the plan, understand it, and agree to comply with all of the health and safety requirements. I understand that I may be prohibited from working on the project for violating any of the requirements. Visitors will be required to be escorted in the restricted access zone. Visitors must comply with Tait Environmental Management, Inc. escort directions while on site at all times. Non-compliance with escort directions will not be tolerated, and violators will be requested to leave the site immediately.

A physician based on medical examination has approved me to wear a respirator. I have been trained in the appropriate use, care, and storage of respiratory equipment. I have been respirator fit tested; and I have my respirator available for use in the field. I understand that I am to use the equipment supplied to me by my employer. I further understand that this equipment is provided solely for my benefit with the intent to minimize my exposure to potentially hazardous conditions. In the event of such usage, I agree to indemnify and hold harmless Tait Environmental Management, Inc. and all of its employees from and against any and all losses, demands, claims, liabilities, lawsuits, damages, costs, and expenses arising, in any way, from the use of the equipment.

Date	Name	Company Name	Signature
5/10/07	LESTER WIGNOR	TAIT	
5/10/07	JOSE ARMENDARIZ	TAIT	
5/10/07	Carmen Lo	TAIT	

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Tait Environmental Management, Inc.
Engineering • Environmental • Compliance

Daily Tailgate Health & Safety Meeting Agreement and Acknowledgement Sheet

Project Name: Boeing C-6	**Project #:** EM-2701-02
Site/Area Location/Well ID: GW SAMPLING & PURGING	
Date(s) Work Performed: 5/8/07	**Time:** 645
Name Of Person Giving Tailgate **Print Name:** LESTER WIDNER **Signature:** Lester Widner	**Affiliation:** NONE.
Site-Specific Health & Safety Meeting Topics: SLIP, TRIPS AND FALLS. TRAFFIC AROUND WELLS. ALSO HEAT	

I have reviewed the plan, understand it, and agree to comply with all of the health and safety requirements. I understand that I may be prohibited from working on the project for violating any of the requirements. Visitors will be required to be escorted in the restricted access zone. Visitors must comply with Tait Environmental Management, Inc. escort directions while on site at all times. Non-compliance with escort directions will not be tolerated, and violators will be requested to leave the site immediately.

A physician based on medical examination has approved me to wear a respirator. I have been trained in the appropriate use, care, and storage of respiratory equipment. I have been respirator fit tested; and I have my respirator available for use in the field. I understand that I am to use the equipment supplied to me by my employer. I further understand that this equipment is provided solely for my benefit with the intent to minimize my exposure to potentially hazardous conditions. In the event of such usage, I agree to indemnify and hold harmless Tait Environmental Management, Inc. and all of its employees from and against any and all losses, demands, claims, liabilities, lawsuits, damages, costs, and expenses arising, in any way, from the use of the equipment.

Date	Name	Company Name	Signature
5/8/07	JORGE ARMENDARIZ	TAIT	Jorge Armendariz
"	DENNIS CARLSON	BOEING	D. Carlson
5/8/07	LESTER WIDNER	TAIT	Lester Widner
5/8/07	Carmen Lo	Tait	Carmen Lo

TestAmerica
ANALYTICAL TECHNOLOGIES CORPORATION

CHAIN OF CUSTODY RECORD

To assist us in using the proper analytical methods, is this work being conducted for regulatory purposes?

Compliance Monitoring? Yes No

Enforcement Action? Yes No

Client Name/Account #: Tait Environmental Management

Address: 701 North Parkcenter Drive

City/State/Zip: Santa Ana, CA 92705

Project Manager: Clara Boeru

Telephone Number: (714) 560-8200 Fax No.: (714) 560-8235

Sampler Name: (Print) JA/LW/CL

Sampler Signature: [signature]

Report To: Clara Boeru

Invoice To: Clara Boeru

TA Quote #:

Project ID: C6 - Building 1

Project #: EM2727

Sample ID / Description	Date Sampled	Time Sampled	No. of Containers Shipped	Grab	Composite	Field Filtered	Preservative: Ice	HNO$_3$ (Red Label)	HCl (Blue Label)	NaOH (Orange Label)	H_2SO_4 Plastic (Yellow Label)	H_2SO_4 Glass(Yellow Label)	None (Black Label)	Other (Specify)	Matrix: Groundwater	Wastewater	Drinking Water	Sludge	Soil	Other (specify):	Analyze For: 8260B	CO2-SM 4500-C	CO_2, Nitrogen, Ethane, Ethane, Methane,RSK 17	Ammonia-N, ISE 350.3	Organic Acids	TOC	Sulfate - EPA 300.0	Orthophosphate - EPA 300.0	Nitrite(NO_2) - EPA 300.0	Nitrate(NO_3) - EPA 300.0	Chloride - EPA 300.0	Total Alkalinity - EPA 310.1	Rdase Genes (rceA, vcrA and bvcA)	Qpcr	VFA	RUSH TAT (Pre-Schedule)	Standard TAT	Fax Results	Send QC with report
TMW_07_WG050807_0001	5/8/07	15:26	12				X	Varies							X						X	X	X	X	X	X	X	X	X	X	X	X	X	X		X		X
WCC_6S_WG050807_0001	5/8/07	10:43	12				X	Varies							X						X	X	X	X	X	X	X	X	X	X	X	X	X	X		X		X
EWB001_WG050807_0001	5/8/07	13:44	12				X	Varies							X						X	X	X	X	X	X	X	X	X	X	X	X	X	X		X		X
TB_TAIT050807_0001	5/8/07	NA	2				X		X						X						X															X		X
EB_TAIT050807_0001	5/8/07	10:45	3				X		X						X						X															X		X
FB_TAIT050807_0001	5/8/07	10:30	3				X		X						X						X															X		X
DB_TAIT050807_0001	5/8/07	11:00	3				X		X						X						X															X		X

Special Instructions:
Sent rceA & Rdase Genes to NorthWind.
Sent vcrA to Microsweeps.

Method of Shipment:

Relinquished by	Date	Time	Received by	Date	Time
Relinquished by: [signature]	05/08/07	17:15	Received by TestAmerica: [signature]	5-8-07	1715

Laboratory Comments:
Temperature Upon Receipt:
VOCs Free of Headspace? Y N

BOE-C6-0187339

TestAmerica
ANALYTICAL TESTING CORPORATION

COC#: TEM050920071LW

CHAIN OF CUSTODY RECORD

To assist us in using the proper analytical methods, is this work being conducted for regulatory purposes?

Compliance Monitoring? Yes No

Enforcement Action? Yes No

Client Name/Account #: Tait Environmental Management

Address: 701 North Parkcenter Drive

City/State/Zip: Santa Ana, CA 92705

Project Manager: Clara Boeru

Telephone Number: (714) 560-8200 Fax No.: (714) 560-8235

Sampler Name: (Print) JA/LW/CL

Sampler Signature:

Report To: Clara Boeru

Invoice To: Clara Boeru

TA Quote #:

Project ID: C6 - Building 1

Project #: EM2727

Sample ID / Description	Date Sampled	Time Sampled	No. of Containers Shipped	Grab	Composite	Field Filtered	Preservative: Ice	Preservative: HNO_3 (Red Label)	Preservative: HCl (Blue Label)	Preservative: NaOH (Orange Label)	Preservative: H_2SO_4 Plastic (Yellow Label)	Preservative: H_2SO_4 Glass(Yellow Label)	Preservative: None (Black Label)	Preservative: Other (Specify)	Matrix: Groundwater	Matrix: Wastewater	Matrix: Drinking Water	Matrix: Sludge	Matrix: Soil	Matrix: Other (specify):	Analyze For: 8260B	CO2-SM 4500-C	(CO_2, Nitrogen, Ethane, Ethane, MethaneRSK 17	Ammonia-N, ISE 350.3	Organic Acids	TOC	Sulfate - EPA 300.0	Orthophosphate - EPA 300.0	Nitrite(NO_2) - EPA 300.0	Nitrate(NO_3) - EPA 300.0	Chloride - EPA 300.0	Total Alkalinity - EPA 310.1	Rdase Genes (rceA, vcrA and bvcA)	Qpcr	VFA	RUSH TAT (Pre-Schedule)	Standard TAT	Fax Results	Send QC with report
AW0074UB_WG050907_0001	5/9/07	8:03	14				X	Varies							X						X	X	X	X	X	X	X	X	X	X	X	X	X	X		X		X
AW0075UB_WG050907_0001	5/9/07	12:58	14				X	Varies							X						X	X	X	X	X	X	X	X	X	X	X	X	X	X		X		X
AW0076UB_WG050907_0001	5/9/07	14:32	14				X	Varies							X						X	X	X	X	X	X	X	X	X	X	X	X	X	X		X		X
WCC_12_WG050907_0001	5/9/07	10:59	14				X	Varies							X						X	X	X	X	X	X	X	X	X	X	X	X	X	X		X		X
AW0064UB_WG050907_0001	5/9/07	16:01	14				X	Varies							X						X	X	X	X	X	X	X	X	X	X	X	X	X	X		X		X
TMW_07_WG050907_0001	5/9/07	15:00	2				X						X		X																	X	X			X		X
WCC_6S_WG050907_0001	5/9/07	16:00	2				X						X		X																	X	X			X		X
EWB001_WG050907_0001	5/9/07	15:30	2				X						X		X																	X	X			X		X
TB_TAIT050907_0001	5/9/07	NA	2				X		X						X						X															X		X
EB_TAIT050907_0001	5/9/07	16:10	3				X		X						X						X															X		X
FB_TAIT050907_0001	5/9/07	16:20	3				X		X						X						X															X		X
DB_TAIT050907_0001	5/9/07	16:30	3				X		X						X						X															X		X

Special Instructions:
Sent Qpcr & Rdase Genes to NorthWind.
Sent VFA to Microsweeps.

Method of Shipment:

Laboratory Comments:
Temperature Upon Receipt:
VOCs Free of Headspace? Y N

Relinquished by:	Date	Time	Received by:	Date	Time
	05/09/07	1700		5/9/07	1700
Relinquished by:	Date	Time	Received by TestAmerica:	Date	Time

BOE-C6-0187340

TestAmerica
ANALYTICAL TESTING CORPORATION

COC#: TEM05102007LW

CHAIN OF CUSTODY RECORD

To assist us in using the proper analytical methods, is this work being conducted for regulatory purposes?

Compliance Monitoring? Yes No

Enforcement Action? Yes No

Client Name/Account #: Tait Environmental Management

Address: 701 North Parkcenter Drive

City/State/Zip: Santa Ana, CA 92705

Project Manager: Clara Boeru

Telephone Number: (714) 560-8200 Fax No.: (714) 560-8235

Sampler Name: (Print) JA/LW/CL

Sampler Signature: [signature]

Report To: Clara Boeru

Invoice To: Clara Boeru

TA Quote #:

Project ID: C6 - Building 1

Project #: EM2727

Sample ID / Description	Date Sampled	Time Sampled	No. of Containers Shipped	Grab	Composite	Field Filtered	Preservative: Ice	HNO$_3$ (Red Label)	HCl (Blue Label)	NaOH (Orange Label)	H$_2$SO$_4$ Plastic (Yellow Label)	H$_2$SO$_4$ Glass(Yellow Label)	None (Black Label)	Other (Specify)	Matrix: Groundwater	Wastewater	Drinking Water	Sludge	Soil	Other (specify):	Analyze For: 8260B	CO2-SM 4500-C	(CO$_2$, Nitrogen, Ethane, Ethane, Methane,RSK 1	Ammonia-N, ISE 350.3	Organic Acids	TOC	Sulfate - EPA 300.0	Orthophosphate - EPA 300.0	Nitrite(NO$_2$) - EPA 300.0	Nitrate(NO$_3$) - EPA 300.0	Chloride - EPA 300.0	Total Alkalinity - EPA 310.1	Rdase Genes (rceA, vcrA and bvcA)	Qpcr	VFA	RUSH TAT (Pre-Schedule)	Standard TAT	Fax Results	Send QC with report
AW0066UB_WG051007_0001	5/10/07	7:24	14				X		Varies						X						X	X	X	X	X	X	X	X	X	X	X	X	X	X		X		X
AW0067UB_WG051007_0001	5/10/07	9:27	14				X		Varies						X						X	X	X	X	X	X	X	X	X	X	X	X	X	X		X		X
AW0077UB_WG051007_0001	5/10/07	12:30	14				X		Varies						X						X	X	X	X	X	X	X	X	X	X	X	X	X	X		X		X
AW0065UB_WG051007_0001	5/10/07	8:30	14				X		Varies						X						X	X	X	X	X	X	X	X	X	X	X	X	X	X		X		X
AW0065UB_WG051007_0002	5/10/07	8:40	14				X		Varies						X						X	X	X	X	X	X	X	X	X	X	X	X	X	X		X		X
AW0055UB_WG051007_0001	5/10/07	11:00	14				X		Varies						X						X	X	X	X	X	X	X	X	X	X	X	X	X	X		X		X
AW0073C_WG051007_0001	5/10/07	13:45	14				X		Varies						X						X	X	X	X	X	X	X	X	X	X	X	X	X	X		X		X
TB_TAIT051007_0001	5/10/07	NA	2				X		X						X						X															X		X
EB_TAIT051007_0001	5/10/07	12:05	3				X		X						X						X															X		X
FB_TAIT051007_0001	5/10/07	12:15	3				X		X						X						X															X		X
DB_TAIT051007_0001	5/10/07	12:25	3				X		X						X						X															X		X

Special Instructions:
Sent Qpcr & Rdase Genes to NorthWind.
Sent VFA to Microsweeps.

Method of Shipment:

Laboratory Comments:
Temperature Upon Receipt:
VOCs Free of Headspace? Y N

2.2°C

Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by: [signature]	05/10/07	1515	Received by TestAmerica: [signature]	5/10/07	1515

BOE-C6-0187341

April 2007 Baseline Monitoring (Round 1) Sampling Plan Former Building 1/26 Biorecirculation Pilot Test
Former C-6 Facility
Los Angeles, California

Well ID	Date	Time	Ferrous Iron (mg/L) (Field Measurement)	Hydrogen Sulfide (mg/L) (Field Measurement)	Other Field Measurement	Recorded By	Equipment Type	Comments
WCC-65	05/08/07	10:50	3.30	—	—	CL	Hach DR/890	
EWB001	|	13:40	0.37	—	—	|	Hach DR/890	
TMW-07	|	15:30	0.53	—	—	|	Hach DR/890	
							Hach DR/890	
							Hach DR/890	
							Hach DR/890	
							Hach DR/890	
							Hach DR/890	
							Hach DR/890	
							Hach DR/890	
							Hach DR/890	
							Hach DR/890	
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							Hach DR/890	
							Hach DR/890	
							Hach DR/890	
							Hach DR/890	
							Hach DR/890	
							Hach DR/890	

Groundwater Sampling Data Sheet

TAIT Environmental Management, Inc

Project Name: C-6 TORRANCE, BASELINE MAY 2007	**Date:** 5-8-07
Project No.: EM 2727-01	**Prepared By:** JA
Well Identification: WCC-06S	**Weather:** SUNNY/WARM
Measurement Point Description: TOC,N	**Pump Intake:** 70' / **Screen:** 60'-90'

Depth to LNAPL (ft-bmp)	A Depth to Static Water Level (ft-bmp)	B Well Total Depth (ft-bmp)	C Water Column Height (ft) (A – B = C)	LNAPL Thickness (ft-bmp)	E One (1) Casing Volume (gallons) (C XD=E)	Three (3) Casing Volumes (gallons) (E x 3)	½ Casing Volume (E /2)	Above Screen Volume (Top screen – DTW)x D	Screen Volume (Screen length x D)	½ screen Volume
---	59.95	84.83	24.88	---	16.17	48.51	8.1	—	—	—

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

Field Equipment: Solinst, Horiba

Purge Method: 2" GRUNDFOS PUMP W/DEDICATED TUBING

Well Condition: GOOD

Time	Casing/ Screen	Volume Purged (gallons)	Flow Rate (gpm)	Water Level (ft-bmp)	Ph	Temperature (°C)	Turbidity (NTU)	Conductivity (S/M)	Dissolved Oxygen (mg/L)	ORP (mV)	Observations
0859	0.5	8.1	0.30	60.70	7.0	26.1	93	0.33	5.8	-97	CLEAR/NO ODOR
0826	1.0	16.2	0.31	60.85	7.0	25.8	75	0.33	3.8	-118	CLEAR/NO ODOR
0953	1.5	24.3	0.30	61.55	7.1	25.3	74	0.31	2.5	-137	CLEAR/NO ODOR
1009	2.0	32.4	0.50	61.45	7.0	24.9	76	0.31	2.4	-139	CLEAR/NO ODOR
1025	2.5	40.5	0.50	61.48	7.0	24.8	51	0.30	2.4	-138	CLEAR/NO ODOR
1041	3.0	48.6	0.50	61.50	7.0	25.0	48	0.29	2.5	-138	CLEAR/NO ODOR

Purge Start Time	Purge End Time	Average Flow (gpm)	Total Gallons Purged	Total Casing Volumes Purged	80% Recovery Water Level Depth (C x .80) - B	Water Level at Sampling Time (ft-bmp)	Sample Collection Time	Sample Identification
0832	1041	0.5	50	3.0	64.93	61.50	1043	WCC-06S-WG050807-0001

Notes: * INITIAL WATER COLOR: CLOUDY W/LIGHT ODOR

Ferrous Iron: 3.30 mg/L

* PURGED WELL WATER INTO COMPOUND TANK

ft-bmp = feet below measuring point

Groundwater Sampling Data Sheet

TAIT Environmental Management, Inc

Project Name: C-6 TORRANCE, BASELINE, MAY 2007	**Date:** 5-8-07
Project No.: EM 2727-01	**Prepared By:** JB
Well Identification: EW8001	**Weather:** SUNNY / HOT
Measurement Point Description: TOC, N	**Pump Intake:** 105' **Screen:** 96-111

Depth to LNAPL (ft-bmp)	A Depth to Static Water Level (ft-bmp)	B Well Total Depth (ft-bmp)	C Water Column Height (ft) (A – B = C)	LNAPL Thickness (ft-bmp)	E One (1) Casing Volume (gallons) (C XD=E)	Three (3) Casing Volumes (gallons) (E x 3)	½ Casing Volume (E /2)	Above Screen Volume (Top screen – DTW)x D	Screen Volume (Screen length x D)	½ screen Volume
---	60.25	88.77	28.52	--	41.92	126	21	—	—	—

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

Field Equipment: Solinst, Horiba

Purge Method: 2" GRUNDFOS PUMP W/ DEDICATED TUBING

Well Condition: GOOD

Time	Casing/ Screen	Volume Purged (gallons)	Flow Rate (gpm)	Water Level (ft-bmp)	Ph	Temperature (°C)	Turbidity (NTU)	Conductivity (S/m)	Dissolved Oxygen (mg/L)	ORP (mV)	Observations
1227	0.5	21	1.0	62.05	7.4	24.3	72	0.24	5.3	-218	CLEAR/NO ODOR
1245	1.0	42	1.2	62.25	7.2	24.2	55	0.21	3.7	-205	CLEAR/NO ODOR
1300	1.5	63	1.4	62.25	7.4	23.8	53	0.21	2.8	-218	CLEAR/NO ODOR
1314	2.0	84	1.5	62.35	7.4	23.8	58	0.20	2.6	-215	CLEAR/NO ODOR
1328	2.5	105	1.5	62.25	7.4	23.9	54	0.19	2.7	-209	CLEAR/NO ODOR
1342	3.0	126	1.5	62.30	7.4	23.9	54	0.19	2.6	-211	CLEAR/NO ODOR

Purge Start Time	Purge End Time	Average Flow (gpm)	Total Gallons Purged	Total Casing Volumes Purged	80% Recovery Water Level Depth (C x .80) - B	Water Level at Sampling Time (ft-bmp)	Sample Collection Time	Sample Identification
1206	1342	1.5	129	3.0	65.95	~~[illegible]~~ JA 65.95	1348	EW8001_WS050807-0001

Notes: * INITIAL WATER COLOR: CLEAR

Ferrous Iron 0.37 mg/L

* PURGED WELL WATER INTO CONTAINING TANK.

ft-bmp = feet below measuring point

Groundwater Sampling Data Sheet

TAIT Environmental Management, Inc

Project Name: C-6 TORRANCE, BASELINE, MAY 2007	**Date:** 5-8-07
Project No.: EM 2727-01	**Prepared By:** JA
Well Identification: TMW-07	**Weather:** SUNNY & WARM / WINDY
Measurement Point Description: TOC, N	**Pump Intake:** 75' **Screen:** 65'-85'

Depth to LNAPL (ft-bmp)	A Depth to Static Water Level (ft-bmp)	B Well Total Depth (ft-bmp)	C Water Column Height (ft) (A – B = C)	LNAPL Thickness (ft-bmp)	E One (1) Casing Volume (gallons) (C XD=E)	Three (3) Casing Volumes (gallons) (E x 3)	½ Casing Volume (E /2)	Above Screen Volume (Top screen – DTW)x D	Screen Volume (Screen length x D)	½ screen Volume
---	61.45	82.60	21.15	---	—	—	—	0.57	3.2	1.6

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

Field Equipment: Solinst, Horiba

Purge Method: 2" GRUNDFOS PUMP W/ DEDICATED TUBING

Well Condition: GOOD

Time	Casing/ Screen	Volume Purged (gallons)	Flow Rate (gpm)	Water Level (ft-bmp)	Ph	Temperature (°C)	Turbidity (NTU)	Conductivity (S/m)	Dissolved Oxygen (mg/L)	ORP (mV)	Observations
1513	ABOVE	0.6	0.5	61.35	7.5	25.5	390	0.19	16.3	23	CLOUDY/NO ODOR
1515	0.5	2.2	0.5	61.37	7.4	26.3	310	0.18	10.2	34	CLOUDY/NO ODOR
1517	1.0	3.8	0.5	61.40	7.4	26.3	300	0.18	10.1	33	CLOUDY/NO ODOR
1519	1.5	5.4	0.5	61.58	7.4	25.9	220	0.18	8.2	40	CLOUDY/NO ODOR
1521	2.0	7	0.5	61.60	7.4	25.9	160	0.18	8.0	43	CLOUDY/NO ODOR
1523	2.5	8.6	0.5	61.60	7.4	26.2	140	0.18	7.4	42	CLOUDY/NO ODOR
1525	3.0	10.2	0.5	61.60	7.4	26.2	130	0.18	7.4	42	CLOUDY/NO ODOR

Purge Start Time	Purge End Time	Average Flow (gpm)	Total Gallons Purged	Total Casing Volumes Purged	80% Recovery Water Level Depth (C x .80) - B	Water Level at Sampling Time (ft-bmp)	Sample Collection Time	Sample Identification
1512	1525	0.5	10.5	ABOVE: 0.6 SCREEN: 3.6	65.68	61.60	1526	TMW-07-W050807-0001

Notes: Ferrous Iron = 0.53 mg/L

ft-bmp = feet below measuring point

BOE-C6-0187345

April 2007 Baseline Monitoring (Round 1) Sampling Plan Former Building 1/26 Biorecirculation Pilot Test
Former C-6 Facility
Los Angeles, California

Well ID	Date	Time	Ferrous Iron (mg/L) (Field Measurement)	Hydrogen Sulfide (mg/L) (Field Measurement)	Other Field Measurement	Recorded By	Equipment Type	Comments
AW00740B	05/09/07	08:05	0.00	—	—	CL	Hach DR/890	
AW0075UB		13:00	0.00	—	—		Hach DR/890	
AW00760B		14:35	0.01	—	—		Hach DR/890	
WCC-12S		11:04	0.00	—	—		Hach DR/890	
AW0064UB		16:05	0.05	—	—		Hach DR/890	
~~[illegible]~~				—	—		Hach DR/890	
							Hach DR/890	
							Hach DR/890	
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							Hach DR/890	
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							Hach DR/890	

Groundwater Sampling Data Sheet

TAIT Environmental Management, Inc

Page ___ of ___

Project Name: C-6 BASELINE MAY 2007	**Date:** 5-9-07
Project No.: EM 2727-01	**Prepared By:** JB
Well Identification: AW0074UB	**Weather:** Sunny / Warm
Measurement Point Description: TOC NORTH	**Pump Intake:** 80' **Screen:** 70'-90'

Depth to LNAPL (ft-bmp)	A Depth to Static Water Level (ft-bmp)	B Well Total Depth (ft-bmp)	C Water Column Height (ft) (A – B = C)	LNAPL Thickness (ft-bmp)	E One (1) Casing Volume (gallons) (C XD=E)	Three (3) Casing Volumes (gallons) (E x 3)	½ Casing Volume (E /2)	Above Screen Volume (Top screen – DTW)x D	TUBING Volume (LITER)	½ screen Volume
---	1. 59.91 2. 59.91 3. 59.91	88.55	28.64	---	N/A	N/A	N/A	N/A	0.77	N/A

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

Field Equipment: Solinst, Horiba

Purge Method: MONSOON LOW-FLOW PUMP

Well Condition: GOOD / 1 BOLT MISSING

Time	(LITER) INITIAL PURGED VOLUME	Volume Purged (LITER)	Flow Rate (LPM)	Water Level (ft-bmp)	Ph	Temperature (°C)	Turbidity (NTU)	Conductivity (S/m)	Dissolved Oxygen (mg/L)	ORP (mV)	Observations
0744	1.0.0	1.02	0.5	60.02	5.3	22.4	200	0.18	6.6	45	CLOUDY / NO ODOR
0746	2.0	2.04	0.5	60.04	5.3	22.5	190	0.18	5.7	44	CLOUDY / NO ODOR
0748	3.0	3.06	0.5	60.04	5.3	22.8	190	0.19	5.3	41	CLOUDY / NO ODOR
0750	4.0	4.08	0.5	60.06	5.3	23.0	180	0.19	5.0	35	CLOUDY / NO ODOR
0752	5.0	5.10	0.5	60.06	5.3	23.3	140	0.19	4.6	34	CLOUDY / NO ODOR
0754	6.0	6.12	0.5	60.06	5.3	23.3	120	0.19	4.3	35	CLOUDY / NO ODOR

Purge Start Time	Purge End Time	Average Flow (LPM)	TOTAL LITER PURGED	Total TUBING Volumes Purged	80% Recovery Water Level Depth (C x .80) - B	Water Level at Sampling Time (ft-bmp)	Sample Collection Time	Sample Identification
0742	0754	0.5	6.12	36.0	65.64	60.06	0803	AW0074UB-WG050907-0001

Notes: FLOW CELL CONTAINS 0.25 OF A LITER
INITIAL PURGED 1.0 LITER
Ferrous Iron : 0.00 mg/L
DISPOSED OF WATER IN COMPOUND

BOE-C6-0187347

Groundwater Sampling Data Sheet

TAIT Environmental Management, Inc

Page ___ of ___

Project Name: C-6 BASELINE MAY 2007	**Date:** 5/9/07
Project No.: EM 2727-01	**Prepared By:** LW
Well Identification: AW0075UB	**Weather:** SUNNY ~ 80°F
Measurement Point Description: TOC NORTH	**Pump Intake:** 80' **Screen:** 69'-89'

Depth to LNAPL (ft-bmp)	A Depth to Static Water Level (ft-bmp)	B Well Total Depth (ft-bmp)	C Water Column Height (ft) (A – B = C)	LNAPL Thickness (ft-bmp)	E One (1) Casing Volume (gallons) (C XD=E)	Three (3) Casing Volumes (gallons) (E x 3)	½ Casing Volume (E /2)	Above Screen Volume (Top screen – DTW) x D	TUBING Volume (LITER)	½ screen Volume
---	1. 60.45 2. 60.45 3. 60.45	89.08	28.63	--	N/A	N/A	N/A	N/A	0.75	N/A

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

Field Equipment: Solinst, Horiba

Purge Method: MONSOON LOW-FLOW PUMP

Well Condition: GOOD

Time	(LITER) INITIAL PURGED VOLUME	Volume Purged (LITER)	Flow Rate (LPM)	Water Level (ft-bmp)	Ph	Temperature (°C)	Turbidity (NTU)	Conductivity (S/m)	Dissolved Oxygen (mg/L)	ORP (mV)	Observations
1244	1.0	1.00	.5	60.52	5.4	25.7	999	0.24	11.4	-110	HIGH TURBIDITY
1247	2.0	2.00	1	60.53	5.4	25.7	990	0.25	10.5	-113	HIGH TURBIDITY
1249	3.0	3.00	.5	60.52	5.3	25.8	850	0.25	9.0	-114	HIGH TURBIDITY
1251	4.0	4.00	.5	60.51	5.4	25.8	990	0.25	8.1	-114	HIGH TURBIDITY
1255	5.0	5.00	.5	60.52	5.3	26.0	990	0.24	7.7	-114	HIGH TURBIDITY
1257	6.0	6.00	.5	60.52	5.3	25.0	990	0.25	6.2	-115	HIGH TURBIDITY

Purge Start Time	Purge End Time	Average Flow (LPM)	TOTAL LITER PURGED	Total TUBING Volumes Purged	80% Recovery Water Level Depth (C x .80) - B	Water Level at Sampling Time (ft-bmp)	Sample Collection Time	Sample Identification
1244	1257	.5	9	6.0	66.18	60.52	1258	AW0075UB-W-05090 7-0001

Notes: FLOW CELL CONTAINS 0.25 OF A LITER

Ferrous Iron 0.00 mg/L

DISPOSED OF WATER IN COMPOUND

BOE-C6-0187348

Groundwater Sampling Data Sheet

TAIT Environmental Management, Inc

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Project Name: C-6 BASELINE MAY 2007	**Date:** 5-9-07
Project No.: EM 2727-01	**Prepared By:** JA
Well Identification: AW0076UB	**Weather:** Sunny/windy
Measurement Point Description: TOC NORTH	**Pump Intake:** 80' **Screen:** 69'-89'

Depth to LNAPL (ft-bmp)	A Depth to Static Water Level (ft-bmp)	B Well Total Depth (ft-bmp)	C Water Column Height (ft) (A – B = C)	LNAPL Thickness (ft-bmp)	E One (1) Casing Volume (gallons) (C XD=E)	Three (3) Casing Volumes (gallons) (E x 3)	½ Casing Volume (E /2)	Above Screen Volume (Top screen – DTW)x D	TUBING Volume (LITER)	½ screen Volume
---	1. 60.98 2. 60.98 3. 60.98	88.57	27.59	---	N/A	N/A	N/A	N/A	0.73	N/A

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

Field Equipment: Solinst, Horiba

Purge Method: MONSOON LOW-FLOW PUMP

Well Condition: GOOD

Time	(LITER) INITIAL PURGED VOLUME	Volume Purged (LITER)	Flow Rate (LPM)	Water Level (ft-bmp)	Ph	Temperature (°C)	Turbidity (NTU)	Conductivity (S/m)	Dissolved Oxygen (mg/L)	ORP (mV)	Observations
1421	1.0	1.0	0.5	61.00	5.3	23.6	84	0.44	7.9	-115	CLOUDY
1423	2.0	2.0	0.5	61.10	5.3	23.4	75	0.52	7.2	-115	CLOUDY
1425	3.0	3.0	0.5	61.15	5.3	23.7	69	0.53	7.0	-117	CLOUDY
1427	4.0	4.0	0.5	61.13	5.3	24.1	52	0.54	6.8	-118	CLOUDY
1429	5.0	5.0	0.5	61.11	5.3	24.1	47	0.54	6.2	-119	CLOUDY
1431	6.0	6.0	0.5	61.12	5.3	23.7	48	0.54	6.0	-119	CLOUDY

Purge Start Time	Purge End Time	Average Flow (LPM)	TOTAL LITER PURGED	Total TUBING Volumes Purged	80% Recovery Water Level Depth (C x .80) - B	Water Level at Sampling Time (ft-bmp)	Sample Collection Time	Sample Identification
1419	1431	0.5	9	6	66.50	61.12	1432	AW0076UB_WG1050907-0001

Notes: FLOW CELL 0.25 LITERS

Ferrous Iron: ~~[illegible]~~ 0.01 mg/L

DISPOSED OF WATER IN COMPOUND

BOE-C6-0187349

Groundwater Sampling Data Sheet

TAIT Environmental Management, Inc

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Project Name: E-6, TORRANCE, BASELINE MAY 4, 07	**Date:** 5-9-07
Project No.: EM 2727-01	**Prepared By:** JA
Well Identification: WCC-125	**Weather:** SUNNY/WARM
Measurement Point Description: TOC, N	**Pump Intake:** 75' **Screen:** 60-90

Depth to LNAPL (ft-bmp)	A Depth to Static Water Level (ft-bmp)	B Well Total Depth (ft-bmp)	C Water Column Height (ft) (A – B = C)	LNAPL Thickness (ft-bmp)	E One (1) Casing Volume (gallons) (C XD=E)	Three (3) Casing Volumes (gallons) (E x 3)	½ Casing Volume (E /2)	Above Screen Volume (Top screen – DTW)x D	Screen Volume (Screen length x D)	½ screen Volume
---	58.67	91.77	33.1	---	21.51	64.53	10.75	—	—	—

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

Field Equipment: Solinst, Horiba

Purge Method: 2" Grundfos Pump w/ DEDICATED TUBING

Well Condition: GOOD

Time	Casing/ Screen	Volume Purged (gallons)	Flow Rate (gpm)	Water Level (ft-bmp)	Ph	Temperature (°C)	Turbidity (NTU)	Conductivity (S/m)	Dissolved Oxygen (mg/L)	ORP (mV)	Observations
1003	0.5	11	1.0	60.25	5.6	24.5	38	0.22	14.9	-130	CLOUDY, NO ODOR
1014	1.0	22	1.0	60.25	5.6	24.5	50	0.22	6.7	-104	CLOUDY, NO ODOR
1025	1.5	33	1.0	60.26	5.6	24.5	34	0.22	6.0	-80	CLOUDY, NO ODOR
1036	2.0	44	1.0	60.28	5.6	24.5	13	0.22	5.5	-54	CLEAR, NO ODOR
1047	2.5	55	1.0	60.29	5.6	24.5	4	0.22	5.3	-33	CLEAR, NO ODOR
1058	3.0	66	1.0	60.34	5.6	24.5	2	0.22	5.2	-30	CLEAR, NO ODOR

Purge Start Time	Purge End Time	Average Flow (gpm)	Total Gallons Purged	Total Casing Volumes Purged	80% Recovery Water Level Depth (C x .80) - B	Water Level at Sampling Time (ft-bmp)	Sample Collection Time	Sample Identification
0952	1058	1.0	66	3.0	65.29	60.34	1059	WCC-125-WG050907-0001

Notes:

Ferrous Iron : 0.00 mg/L

DISPOSED OF WATER IN COMPOUND

ft-bmp = feet below measuring point

BOE-C6-0187350

Groundwater Sampling Data Sheet

TAIT Environmental Management, Inc

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Project Name: C-6 BASELINE MAY 2007	**Date:** 5-9-07
Project No.: EM 2727-01	**Prepared By:** SA
Well Identification: AW0064UB	**Weather:** SUNNY / WARM WITH WINDS
Measurement Point Description: TOC NORTH	**Pump Intake:** 80' **Screen:** 68.5' - 88.5'

Depth to LNAPL (ft-bmp)	A Depth to Static Water Level (ft-bmp)	B Well Total Depth (ft-bmp)	C Water Column Height (ft) (A – B = C)	LNAPL Thickness (ft-bmp)	E One (1) Casing Volume (gallons) (C XD=E)	Three (3) Casing Volumes (gallons) (E x 3)	½ Casing Volume (E /2)	Above Screen Volume (Top screen – DTW)x D	TUBING Volume (LITER)	½ screen Volume
---	1. 60.45 2. 60.45 3. 60.45	87.70	27.25	---	N/A	N/A	N/A	N/A	0.75	N/A

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

Field Equipment: Solinst, Horiba

Purge Method: MONSOON LOW-FLOW PUMP

Well Condition: GOOD

Time	(LITER) INITIAL PURGED VOLUME	Volume Purged (LITER)	Flow Rate (LPM)	Water Level (ft-bmp)	Ph	Temperature (°C)	Turbidity (NTU)	Conductivity (S/m)	Dissolved Oxygen (mg/L)	ORP (mV)	Observations
1550	1.0	1.0	0.5	60.56	5.3	23.7	200	0.25	8.2	-124	BLACK / NO ODOR
1552	2.0	2.0	0.5	60.55	5.3	23.7	200	0.26	7.5	-119	CLOUDY / NO ODOR
1554	3.0	3.0	0.5	60.59	5.3	23.2	170	0.26	6.5	-116	CLOUDY / NO ODOR
1556	4.0	4.0	0.5	60.59	5.3	23.2	140	0.27	6.3	-116	CLOUDY / NO ODOR
1558	5.0	5.0	0.5	60.59	5.3	23.5	100	0.28	6.0	-116	CLOUDY / NO ODOR
1600	6.0	6.0	0.5	60.59	5.3	23.8	98	0.29	5.9	-117	CLOUDY / NO ODOR

Purge Start Time	Purge End Time	Average Flow (LPM)	TOTAL LITER PURGED	Total TUBING Volumes Purged	80% Recovery Water Level Depth (C x .80) - B	Water Level at Sampling Time (ft-bmp)	Sample Collection Time	Sample Identification
1548	1600	0.5	9.0	6.0	65.90	60.59	1601	AW0064UB-WG-050907-0001

Notes: FLOW CELL 0.25 LITER

Ferrous Iron: 0.05 mg/L

DISPOSED OF WATER IN COMPOUND

REMOVED TUBING FROM WELL AFTER SAMPLING - STORED IN COMPOUND

BOE-C6-0187351

April 2007 Baseline Monitoring (Round 1) Sampling Plan Former Building 1/26 Biorecirculation Pilot Test
Former C-6 Facility
Los Angeles, California

Well ID	Date	Time	Ferrous Iron (mg/L) (Field Measurement)	Hydrogen Sulfide (mg/L) (Field Measurement)	Other Field Measurement	Recorded By	Equipment Type	Comments
AW0065UB	05/10/07	8:50	0.08	—	—	CL	Hach DR/890	
AW0066UB		7:30	0.00	—	—		Hach DR/890	
AW0067UB		9:30	0.00	—	—		Hach DR/890	
AW0077UB		12:35	0.00	—	—		Hach DR/890	
AW0073C		13:50	0.00	—	—		Hach DR/890	
AW0055UB		11:05	0.00	—	—		Hach DR/890	
							Hach DR/890	
							Hach DR/890	
							Hach DR/890	
							Hach DR/890	
							Hach DR/890	
							Hach DR/890	
							Hach DR/890	
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							Hach DR/890	
							Hach DR/890	
							Hach DR/890	
							Hach DR/890	
							Hach DR/890	
							Hach DR/890	

Groundwater Sampling Data Sheet

TAIT Environmental Management, Inc

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Project Name: C-6 BASELINE MAY 2007	**Date:** 5/10/07
Project No.: EM 2727-01	**Prepared By:** LW
Well Identification: AW0066UB	**Weather:** SUNNY & 70°F
Measurement Point Description: TOC NORTH	**Pump Intake:** 80' **Screen:** 69.5'-89.5'

Depth to LNAPL (ft-bmp)	A Depth to Static Water Level (ft-bmp)	B Well Total Depth (ft-bmp)	C Water Column Height (ft) (A – B = C)	LNAPL Thickness (ft-bmp)	E One (1) Casing Volume (gallons) (C XD=E)	Three (3) Casing Volumes (gallons) (E x 3)	½ Casing Volume (E /2)	Above Screen Volume (Top screen – DTW)x D	TUBING Volume (LITER)	½ screen Volume
—	1. 61.31 2. 61.31 3. 61.31	90.15	28.84	—	N/A	N/A	N/A	N/A	0.75	N/A

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

Field Equipment: Solinst, Horiba

Purge Method: MONSOON LOW-FLOW PUMP

Well Condition:

Time	(LITER) INITIAL PURGED VOLUME	Volume Purged (LITER)	Flow Rate (LPM)	Water Level (ft-bmp)	Ph	Temperature (°C)	Turbidity (NTU)	Conductivity (S/m)	Dissolved Oxygen (mg/L)	ORP (mV)	Observations
0713	1.0	1.0	0.5	61.35	5.1	20.2	300	0.42	6.4	-94	GREY
0715	2.0	2.0	0.5	61.35	5.1	20.4	360	0.50	5.7	-92	GREY
0717	3.0	3.0	0.5	61.36	5.1	20.4	350	0.50	4.8	-90	GREY
0719	4.0	4.0	0.5	61.37	5.1	21.4	350	0.57	4.1	-95	GREY
0721	5.0	5.0	0.5	61.37	5.1	21.5	350	0.57	4.0	-98	GREY
0723	6.0	6.0	0.5	61.37	5.1	21.4	350	0.58	3.8	-99	GREY

Purge Start Time	Purge End Time	Average Flow (LPM)	TOTAL LITER PURGED	Total TUBING Volumes Purged	80% Recovery Water Level Depth (C x .80) - B	Water Level at Sampling Time (ft-bmp)	Sample Collection Time	Sample Identification
0711	0723	0.5	6.0	6.0	~~61.36~~ LW 67.05	61.37	0724	AW0066UB_MAY 05100740001

Notes: FLOW CELL 0.25 LITER

FERROUS IRON: 0.00 mg/L

DISPOSED OF WATER IN COMPOUND

REMOVED TUBING FROM WELL AFTER SAMPLING - STORED IN COMPOUND

BOE-C6-0187353

Groundwater Sampling Data Sheet

TAIT Environmental Management, Inc

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Project Name: C-6 BASELINE MAY 2007	**Date:** 5/10/07
Project No.: EM 2727-01	**Prepared By:** JA
Well Identification: AW0067UB	**Weather:** SUNNY / 80°F
Measurement Point Description: TOC NORTH	**Pump Intake:** 80' **Screen:** 70'-90'

Depth to LNAPL (ft-bmp)	A Depth to Static Water Level (ft-bmp)	B Well Total Depth (ft-bmp)	C Water Column Height (ft) (A – B = C)	LNAPL Thickness (ft-bmp)	E One (1) Casing Volume (gallons) (C XD=E)	Three (3) Casing Volumes (gallons) (E x 3)	½ Casing Volume (E/2)	Above Screen Volume (Top screen – DTW) x D	TUBING Volume (LITER)	½ screen Volume
---	1. 61.34 2. 61.34 3. 61.34	88.59	27.25	---	N/A	N/A	N/A	N/A	0.75	N/A

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

Field Equipment: Solinst, Horiba

Purge Method: MONSOON LOW-FLOW PUMP

Well Condition: GOOD / NEW

Time	(LITER) INITIAL PURGED VOLUME	Volume Purged (LITER)	Flow Rate (LPM)	Water Level (ft-bmp)	Ph	Temperature (°C)	Turbidity (NTU)	Conductivity (S/M)	Dissolved Oxygen (mg/L)	ORP (mV)	Observations
09:16	1	1.0	0.5	61.48	5.5	22.2	990	0.15	7.2	123	BLACK / CLOUDY
09:18	2	2.0	0.5	61.49	5.5	22.2	990	0.15	6.0	111	BLACK / CLOUDY
09:20	3	3.0	0.5	61.49	5.5	22.5	990	0.15	5.6	105	BLACK / CLOUDY
09:22	4	4.0	0.5	61.49	5.5	22.7	990	0.15	4.8	101	BLACK / CLOUDY
09:24	5	5.0	0.5	61.49	5.5	22.9	990	0.15	4.0	98	BLACK / CLOUDY
09:26	6	6.0	0.5	61.49	5.5	22.9	990	0.15	3.9	97	BLACK / CLOUDY
											BLACK / CLOUDY

Purge Start Time	Purge End Time	Average Flow (LPM)	TOTAL LITER PURGED	Total TUBING Volumes Purged	80% Recovery Water Level Depth (C x .80) - B	Water Level at Sampling Time (ft-bmp)	Sample Collection Time	Sample Identification
09:14	9:26	0.5	7.0	6.0	66.79	61.49	9:27	AW0067UB_WG051007_0001

Notes: FLOW CELL 0.25 LITER

FERROUS IRON - 0.00 mg/L

DISPOSED OF WATER IN COMPOUND

REMOVED TUBING FROM WELL AFTER SAMPLING - STORED IN COMPOUND

BOE-C6-0187354

Groundwater Sampling Data Sheet

TAIT Environmental Management, Inc

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Project Name: C-6 BASELINE MAY 2007	**Date:** 5/10/07
Project No.: EM 2727-01	**Prepared By:** VA
Well Identification: AW0071UB	**Weather:** SUNNY / 80°F
Measurement Point Description: TOC NORTH	**Pump Intake:** 80' **Screen:** 70.5' – 85.5'

Depth to LNAPL (ft-bmp)	A Depth to Static Water Level (ft-bmp)	B Well Total Depth (ft-bmp)	C Water Column Height (ft) (A – B = C)	LNAPL Thickness (ft-bmp)	E One (1) Casing Volume (gallons) (C X D=E)	Three (3) Casing Volumes (gallons) (E x 3)	½ Casing Volume (E /2)	Above Screen Volume (Top screen – DTW) x D	TUBING Volume (LITER)	½ screen Volume
—	1. 61.30 2. 61.30 3. 61.30	83.45	22.15	—	N/A	N/A	N/A	N/A	0.72	N/A

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

Field Equipment: Solinst, Horiba

Purge Method: MONSOON LOW-FLOW PUMP

Well Condition: GOOD / NEW

Time	(LITER) INITIAL PURGED VOLUME	Volume Purged (LITER)	Flow Rate (LPM)	Water Level (ft-bmp)	Ph	Temperature (°C)	Turbidity (NTU)	Conductivity (S/M)	Dissolved Oxygen (mg/L)	ORP (mV)	Observations
1152	1	1.0	0.5	61.65	5.2	27.7	990	0.36	10.4	-136	BLACK / BAD ODOR
1154	2	2.0	0.5	61.65	5.2	27.1	990	0.37	9.4	-139	BLACK / BAD ODOR
1156	3	3.0	0.5	61.65	5.2	26.5	990	0.37	8.6	-144	BLACK / BAD ODOR
1158	4	4.0	0.5	61.65	5.2	26.3	990	0.37	7.2	-145	BLACK / BAD ODOR
1200	5	5.0	0.5	61.65	5.2	25.5	990	0.36	6.6	-145	BLACK / BAD ODOR
1202	6	6.0	0.5	61.65	5.2	25.3	990	0.36	5.2	-144	BLACK / BAD ODOR
P											

Purge Start Time	Purge End Time	Average Flow (LPM)	TOTAL LITER PURGED	Total TUBING Volumes Purged	80% Recovery Water Level Depth (C x .80) - B	Water Level at Sampling Time (ft-bmp)	Sample Collection Time	Sample Identification
1150	1202	0.5	7.0	6	65.74	61.65	1203	AW0071UB – WG051007-0001

Notes: FLOW CELL 0.25 LITER

DISPOSED OF WATER IN COMPOUND

FERROUS IRON — 0.00 mg/L

BOE-C6-0187355

Groundwater Sampling Data Sheet

TAIT Environmental Management, Inc

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Project Name: C-6 BASELINE MAY 2007	**Date:** 5/10/07
Project No.: EM 2727-01	**Prepared By:** LW
Well Identification: AW0065UB	**Weather:** SUNNY 70°F
Measurement Point Description: TOC NORTH	**Pump Intake:** 80' **Screen:** 68.5' - 88.5'

Depth to LNAPL (ft-bmp)	A Depth to Static Water Level (ft-bmp)	B Well Total Depth (ft-bmp)	C Water Column Height (ft) (A – B = C)	LNAPL Thickness (ft-bmp)	E One (1) Casing Volume (gallons) (C XD=E)	Three (3) Casing Volumes (gallons) (E x 3)	½ Casing Volume (E /2)	Above Screen Volume (Top screen – DTW)x D	TUBING Volume (LITER)	½ screen Volume
---	1. 60.93 2. 60.93 3. 60.93	89.44	28.51	--	N/A	N/A	N/A	N/A	0.75	N/A

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

Field Equipment: Solinst, Horiba

Purge Method: MONSOON LOW-FLOW PUMP

Well Condition: GOOD / NEW

Time	(LITER) INITIAL PURGED VOLUME	Volume Purged (LITER)	Flow Rate (LPM)	Water Level (ft-bmp)	Ph	Temperature (°C)	Turbidity (NTU)	Conductivity (S/M)	Dissolved Oxygen (mg/L)	ORP (mV)	Observations
8:04	1.	1.0	0.25	61.10	6.29	21.2	900	0.340	3.08	-109	GRAY/CLOUDY
8:08	2	2.0	0.25	61.10	6.30	21.8	910	0.355	3.28	-112	GRAY/CLOUDY
8:12	3	3.0	0.25	61.10	6.32	21.9	910	0.357	2.71	-113	GRAY/CLOUDY
8:16	4	4.0	0.25	61.10	6.32	22.0	<999.0	0.356	2.62	-116	GRAY/CLOUDY
8:20	5	5.0	0.25	61.10	6.32	22.0	<999.0	0.355	2.55	-118	GRAY/CLOUDY
8:24	6	6.0	0.25	61.10	6.32	22.1	160.8	0.355	2.68	-119	CLEAR

Purge Start Time	Purge End Time	Average Flow (LPM)	TOTAL LITER PURGED	Total TUBING Volumes Purged	80% Recovery Water Level Depth (C x .80) - B	Water Level at Sampling Time (ft-bmp)	Sample Collection Time	Sample Identification
8:00	8:24	0.25	7.0	6.0	66.63	61.10	8:30 8:40	AW0065UB-WG051007-0001 AW0065UB-WG051007-0001

Notes: Flow cell 0.25 liter

Ferrous Iron: 0.08 mg/L.

DISPOSED OF WATER IN COMPOUND

REMOVED TUBING FROM WELL AFTER PURGING - STORED IN COMPOUND

BOE-C6-0187356

Groundwater Sampling Data Sheet

TAIT Environmental Management, Inc

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Project Name: C-6 BASELINE MAY 2007	**Date:** 5/10/07
Project No.: EM 2727-01	**Prepared By:** LW
Well Identification: AW 0055UB	**Weather:** SUNNY - 80°F
Measurement Point Description: TOC NORTH	**Pump Intake:** 80' **Screen:** 69'-89'

Depth to LNAPL (ft-bmp)	A Depth to Static Water Level (ft-bmp)	B Well Total Depth (ft-bmp)	C Water Column Height (ft) (A – B = C)	LNAPL Thickness (ft-bmp)	E One (1) Casing Volume (gallons) (C XD=E)	Three (3) Casing Volumes (gallons) (E x 3)	½ Casing Volume (E /2)	Above Screen Volume (Top screen – DTW) x D	TUBING Volume (LITER)	½ screen Volume
---	1. 60.77 2. 60.77 3. 60.77	89.30	28.53	---	N/A	N/A	N/A	N/A	0.75	N/A

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

Field Equipment: Solinst, Horiba

Purge Method: MONSOON LOW-FLOW PUMP

Well Condition: GOOD / NOW

Time	(LITER) INITIAL PURGED VOLUME	Volume Purged (LITER)	Flow Rate (LPM)	Water Level (ft-bmp)	Ph	Temperature (°C)	Turbidity (NTU)	Conductivity (S/M)	Dissolved Oxygen (mg/L)	ORP (mV)	Observations
1031	1	1.0	0.25	60.81	6.63	24.6	221.0	0.273	3.80	+135	BLACK / CLOUDY
1035	2	2.0	0.25	60.81	6.59	24.6	190.0	0.276	2.83	+130	BLACK / CLOUDY
1039	3	3.0	0.25	60.81	6.59	24.5	191.0	0.277	2.77	+131	CLEAR / GREY
1043	4	4.0	0.25	60.81	6.59	24.8	5.0	0.277	3.28	+133	CLEAR
1047	5	5.0	0.25	60.81	6.60	24.8	5.0	0.278	3.42	+134	CLEAR
1051	6	6.0	0.25	60.81	6.60	24.8	5.9	0.278	3.50	+134	CLEAR

Purge Start Time	Purge End Time	Average Flow (LPM)	TOTAL LITER PURGED	Total TUBING Volumes Purged	80% Recovery Water Level Depth (C x .80) - B	Water Level at Sampling Time (ft-bmp)	Sample Collection Time	Sample Identification
1027	1051	0.25	7.0	6	66.48	60.81	1100	AW0055UB_WG051007_0001

Notes: FLOWCEL 0.25 LITER Ferrous Iron = 0.00 mg/L

DISPOSED OF WATER IN COMPOUND

BOE-C6-0187357

Groundwater Sampling Data Sheet

TAIT Environmental Management, Inc

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Project Name: C-6 BASELINE MAY 2007	**Date:** 5-10-07
Project No.: EM 2727-01	**Prepared By:** JA
Well Identification: AW0073C	**Weather:** SUNNY / COOL
Measurement Point Description: TOC NORTH	**Pump Intake:** 106' **Screen:** 96'-116'

Depth to LNAPL (ft-bmp)	A Depth to Static Water Level (ft-bmp)	B Well Total Depth (ft-bmp)	C Water Column Height (ft) (A – B = C)	LNAPL Thickness (ft-bmp)	E One (1) Casing Volume (gallons) (C XD=E)	Three (3) Casing Volumes (gallons) (E x 3)	½ Casing Volume (E /2)	Above Screen Volume (Top screen – DTW)x D	TUBING Volume (LITER)	½ screen Volume
---	1. 60.72 2. 60.72 3. 60.72	117.50	56.78	---	N/A	N/A	N/A	N/A	1.52	N/A

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

Field Equipment: Solinst, Horiba

Purge Method: MONSOON LOW-FLOW PUMP

Well Condition: GOOD

Time	(LITER) INITIAL PURGED VOLUME	Volume Purged (LITER)	Flow Rate (LPM)	Water Level (ft-bmp)	Ph	Temperature (°C)	Turbidity (NTU)	Conductivity (S/m)	Dissolved Oxygen (mg/L)	ORP (mV)	Observations
1324	1.0	1.75	0.43	61.00	5.5	24.5	990	0.12	6.0	-141	GREY/BAD ODOR
1328	2.0	3.5	0.43	61.00	5.4	24.2	990	0.14	5.0	-132	GREY/BAD ODOR
1332	3.0	5.25	0.43	61.00	5.4	24.4	990	0.13	4.3	-129	GREY/BAD ODOR
1336	4.0	7.00	0.43	61.00	5.4	24.2	170	0.12	3.6	-132	CLEAR/BAD ODOR
1340	5.0	8.75	0.43	61.00	5.4	24.2	100	0.11	3.4	-136	CLEAR/BAD ODOR
1344	6.0	10.5	0.43	61.00	5.4	24.1	75	0.11	3.2	-140	CLEAR/BAD ODOR

Purge Start Time	Purge End Time	Average Flow (LPM)	TOTAL LITER PURGED	Total TUBING Volumes Purged	80% Recovery Water Level Depth (C x .80) - B	Water Level at Sampling Time (ft-bmp)	Sample Collection Time	Sample Identification
1320	1344	0.43	12	6.0	72.07	61.00	1345	AW0073C-WG057007-0001

Notes: * INITIAL COLOR GREY / HIGH TURBIDITY

DISPOSED OF WATER IN COMPOUND

Ferrous Iron : 0.00 mg/L

BOE-C6-0187358

Tait Environmental Management, Inc.

Instrument Calibration Sheet

Project Name: Boeing C-6	Project #: BM 2701-02

Date	Time	Instrument Type	Instrument Serial No.	Calibration Method	TAPE / SOLINST		Horiba	Calibrated By
5/7/07	6:30	SOLINST	#44249	STEEL TAPE	25.00	25.04	N/A	JA, LW
5/8/07	6:30	SOLINST	#44249	STEEL TAPE	25.00	25.04	N/A	JA, LW
5/8/07	N/A	HORIBA	01-U22	BISCO	N/A	N/A	U-22	BISCO
5/9/07	6:30	SOLINST	#44249	STEEL TAPE	25.00	25.04	N/A	JA, LW
5/9/07	6:30	HORIBA	U-22-01	AUTO 4.0 00.0%	N/A	N/A	N/A	JA
5/9/07	6:40	HORIBA	U-22-02	BISCO	N/A	N/A	U-22	BISCO
5/9/07	6:45	SOLINST	35566	STEEL TAPE	25.00	25.02	N/A	LW, JA
5/10/07	6:00	SOLINST	#44249	STEEL TAPE	25.00	25.04	N/A	LW/JA
5/10/07	6:10	SOLINST	35566	STEEL TAPE	25.00	25.02	N/A	LW/JA
5/10/07	6:20	HORIBA	U-22-01	AUTO 4.0 00.0%	N/A	N/A	U-22	LW/JA
5/10/07	6:30	HORIBA	U-22-02	AUTO 4.0 00.0%	N/A	N/A	U-22	LW/JA

BISCO Environmental

CERTIFICATION OF CALIBRATION

Manufacturer: HORIBA

Model: U22
Serial # U22-02

CALIBRATION DATA

GAS OR SOLUTION USED	STANDARD		POST-CAL READING
PH 4	pH buffer 4		4
COND	Auto cal 100-4		.452 S/cm
TURBIDITY	Auto cal 100-4		0 ntu
DO	zero & manual cal		9.09
TEMP	Auto cal 100-4		21.0 °C
SAL	Auto cal 100-4		20.00%
TDS	Auto cal 100-4		2.9 g/L
ORP	Auto cal 100-4		249 mV

GENERAL DATA

THIS INSTRUMENT HAS BEEN CALIBRATED IN ACCORDANCE WITH MANUFACTURER'S PROCEDURES AS DETAILED IN THE OPERATIONS MANUAL.

CALIBRATED FOR: TAIT
CALIBRATED BY: MIKE SOTA

DATE: 5/7/2007

1735 E.Wilshire Ave., Suite 805 Santa Ana, CA 92705 PH 714-547-7955 FX 714-242-9281

BISCO Environmental

CERTIFICATION OF CALIBRATION

Manufacturer: HORIBA

Model: U22
Serial # U22-01

CALIBRATION DATA

GAS OR SOLUTION USED	STANDARD		POST-CAL READING
PH 4	pH buffer 4		4
COND	Auto cal 100-4		.449 S/cm
TURBIDITY	Auto cal 100-4		0 ntu
DO	zero & manual cal		9
TEMP	Auto cal 100-4		20.°c
SAL	Auto cal 100-4		20.00%
TDS	Auto cal 100-4		2.9 g/L
ORP	Auto cal 100-4		269 mV

GENERAL DATA

THIS INSTRUMENT HAS BEEN CALIBRATED IN ACCORDANCE WITH MANUFACTURER'S PROCEDURES AS DETAILED IN THE OPERATIONS MANUAL.

CALIBRATED FOR: TAIT
CALIBRATED BY: MIKE SOTA
DATE: 5/7/2007

1735 E.Wilshire Ave., Suite 805 Santa Ana, CA 92705 PH 714-547-7955 FX 714-242-9281

Tait Environmental Management, Inc.

Engineering • Environmental • Compliance

Investigation Derived Waste (IDW) Inventory Record

Project Name: BOEING C-6 BASELINE MAY 2007

Project No.: EM-2727-01

Accumulation Date	Drum/Bin	Identifier	Waste Origination	Contents	Accumulation Amount	Container Location	Inventoried By	Labeled By
5/8/07	COMPOUND	WCC-65	C-6	H_2O	50 GALLONS	COMPOUND	JA	JA
5/8/07	COMPOUND	EWB 001	C-6	H_2O	129 GALLONS	COMPOUND	JA	JA
5/8/07	COMPOUND	TMW-07	C-6	H_2O	10.5 GALLONS	COMPOUND	JA	JA
5/9/07	COMPOUND	AW0074UB	C-6	H_2O	9.0 liter	COMPOUND	JA	JA
5/9/07	COMPOUND	AW0075UB	C-6	H_2O	9.0 liter	COMPOUND	JA	JA
5/9/07	COMPOUND	AW0076UB	C-6	H_2O	9.0 liter	COMPOUND	JA	JA
5/9/07	COMPOUND	WCC-12	C-6	H_2O	66 GALLONS	COMPOUND	JA	JA
5/9/07	COMPOUND	AW0061UB	C-6	H_2O	9.0 liter	COMPOUND	LW	LW
5/10/07	COMPOUND	AW0073UB	C-6	H_2O	12.0 liter	COMPOUND	JA	JA
5/10/07	COMPOUND	AW0066UB	C-6	H_2O	6.0 liter	COMPOUND	JA	JA
5/10/07	COMPOUND	AW0067UB	C-6	H_2O	7.0 liter	COMPOUND	JA	JA
5/10/07	COMPOUND	AW0079UB	C-6	H_2O	7.0 liter	COMPOUND	JA	JA
5/10/07	COMPOUND	AW0055UB	C-6	H_2O	7.0 liter	COMPOUND	LW	LW
5/10/07	COMPOUND	AW0065UB	C-6	H_2O	7.0 liter	COMPOUND	LW	JA

BOE-C6-0187362

Tait Environmental Management, Inc.
Engineering • Environmental • Compliance

QA/QA Sample Identification Form

Project Name: BOEING C-6 BASELINE MAY 2007 | **Project #:** EM-2727-01

Date	Time	QA/QC Sample Type (Duplicate, Field Blank, Equipment Blank, Split)	Sample ID	Sample Location	Primary Sample Reference	Analytical Method(s)	Organic-Free Water Source and Reference	Name	Comments
5/8/07	N/A	TRIP BLANK	TB_TMT050807-0001	C-6	N/A	8260B	N/A	LW	
5/8/07	1045	EQUIP. BLANK	EB_TMT050807-0001	C-6	N/A	SEE COC	N/A	LW	
5/8/07	1050	FIELD BLANK	FB_TMT050807-0001	C-6	N/A	SEE COC	N/A	LW	
5/8/07	1100	DECON BLANK	DB_TMT050807_0001	C-6	N/A	SEE COC	N/A	LW	
5/8/07	1043	WELL	WCC-6S_WG050807_0001	C-6	N/A	SEE COC	N/A	JA	
5/8/07	1344	WELL	EW13001_WG050807_0001	C-6	N/A	SEE COC	N/A	JA	
5/8/07	1526	WELL	TMW_07_WG050807_0001	C-6	N/A	SEE COC	N/A	JA	
5/9/07	N/A	TRIP BLANK	TB_TMT050907_0001	C-6	N/A	8260B	N/A	LW	
5/9/07	1610	EQUIP BLANK	EB_TMT050907_0001	C-6	N/A	8260B	N/A	LW	
5/9/07	1620	FIELD BLANK	FB_TMT050907-0001	C-6	N/A	8260B	N/A	LW	
5/9/07	1630	DECON BLANK	DB_TMT050907-0001	C-6	N/A	8260B	N/A	LW	
5/9/07	0803	WELL	AW0074UB_WG050907_0001	C-6	N/A	SEE COC	N/A	JA	
5/9/07	1258	WELL	AW0075UB_WG050907-0001	C-6	N/A	SEE COC	N/A	JA	
5/9/07	1432	WELL	AW0076UB_WG050907-0001	C-6	N/A	SEE COC	N/A	JA	
5/9/07	1059	WELL	WCC_12_WG050907-0001	C-6	N/A	SEE COC	N/A	JA	

BOE-C6-0187363

Tait Environmental Management, Inc.
Engineering • Environmental • Compliance

QA/QA Sample Identification Form

Project Name:	Project #:
BOEING C-6 BASELINE May 2007	EM-2727-01

Date	Time	QA/QC Sample Type (Duplicate, Field Blank, Equipment Blank, Split)	Sample ID	Sample Location	Primary Sample Reference	Analytical Method(s)	Organic-Free Water Source and Reference	Name	Comments
5/9	1601	WELL	AW00[illegible]C-WG050907-0001	C-6	N/A	SEE COC	N/A	JA	JA
5/10	N/A	TRIP BLANK	TB-TAIT051007-0001	C-1	N/A	8260B	N/A	LW	LW
5/10	1205	EQUIP BLANK	EB-TAIT051007-0001	C-1	N/A	8260B	N/A	LW	LW
5/10	1215	FIELD BLANK	FB-TAIT051007-0001	C-1	N/A	8260B	N/A	LW	LW
5/10	1225	DECON BLANK	DB-TAIT051007-0001	C-1	N/A	8260B	N/A	LW	LW
5/10	0724	WELL	AW0066UB-WG051007-0001	C-1	N/A	SEE COC	N/A	JA	JA
5/10	0927	WELL	AW0067UB-WG051007-0001	C-1	N/A	SEE COC	N/A	JA	JA
5/10	1203	WELL	AW0077UB-WG051007-0001	C-1	N/A	SEE COC	N/A	JA	JA
5/10	1100	WELL	AW0055UB-WG051007-0001	C-1	N/A	SEE COC	N/A	LW	LW
5/10	830	WELL	AW0065UB-WG051007-0001	C-1	N/A	SEE COC	N/A	LW	LW
5/10	840	WELL	AW0065UB-WG051007-0002	C-1	N/A	SEE COC	N/A	LW	LW
5/10	1345	WELL	AW0073UB-WG051007-0001	C-1	N/A	SEE COC	N/A	JA	JA

BOE-C6-0187364

GUAGING SHEET BOZING C-6

Mon, May 7, 2007

WELLS	DTW	DTB	COMMENTS
TMW-07	61.43	82.60	2" GOOD
WCC-6S	59.97	84.83	4" GOOD
WCC-12S	58.69	91.77	4" GOOD
EWB001	60.37	88.77	6" GOOD (NO TUBING)
AW 0055 UB	60.70	89.30	2" GOOD (NO TUBING)
AW 0064 UB	60.48	87.70	2" GOOD (NO TUBING)
AW 0065 UB	60.85	89.44	2" GOOD (NO TUBING)
AW 0066 UB	61.20	90.15	2" GOOD (NO TUBING)
AW 0067 UB	61.24	88.59	2" GOOD (NO TUBING)
AW 0074 UB	59.95	88.55	2" GOOD/NEW (NO TUBING), 1 OF THE BOLTS DAMAGED & REMOVED
AW 0075 UB	60.49	89.08	2" GOOD/NEW (NO TUBING)
AW 0076 UB	61.00	88.57	2" GOOD/NEW (NO TUBING)
AW 0077 UB	61.23	83.45	2" GOOD/NEW (NO TUBING)
AW 0073 C	60.57	117.50	2" GOOD/NEW (NO TUBING) DTB 100+

FIELD DATA REPORT

June 2007 Baseline Monitoring (Round 2)
And Quarterly Groundwater Monitoring Sampling Event
Former Building 1/36
Boeing Realty Corporation
Former C-6 Facility
Torrance, California
June 2007

Prepared by:

Tait Environmental Management, Inc.
701 N. Parkcenter Drive
Santa Ana, CA 92705

June 29, 2007

Tait Environmental Management, Inc.
Engineering • Environmental • Compliance

June 29, 2007

Mr. Joseph Weidman
Haley & Aldrich, Inc.
3 West Carrillo St.
Suite 201
Santa Barbara, CA 93101

Subject: Field Data Report for the June 2007 Baseline Monitoring (Round 2) and Quarterly Groundwater Monitoring Plan, Former Building 1/36 at the Boeing Realty Corporation, Former C-6 Facility, Torrance, California

Dear Mr. Weidman:

This report was prepared to summarize and present the field data collected during June 2007 for the June 2007 Baseline Monitoring (Round 2) and Quarterly Groundwater Monitoring Plan, Former Building 1/36 at the Boeing Realty Corporation (BRC), Former C-6 Facility, Torrance, California (Site). The Groundwater Monitoring and Sampling activities were performed in accordance with the following:

June 2007 Baseline Monitoring (Round 2) and Quarterly Groundwater Monitoring Plan Former Building 1/36 by CDM for Boeing Realty Corporation (BRC), dated May 25, 2007.

Table 1B: Baseline Monitoring (2nd Round) and Quarterly Sampling Plan, Former Building 1/36, Former C-6 Facility Site, Los Angeles, California, from CDM, dated June, 2007.

Figure 1A: Boeing Realty Corporation Former C-6 Facility Former Building 1/36 June 2007 Quarterly and Baseline Groundwater Monitoring Locations, Former Building 1/36, Former C-6 Facility Site, Los Angeles, California, from CDM, dated June, 2007.

The following is a brief summary of our field activities:

- A total of 15 monitoring wells were gauged for depth to water and total depth on June 13th, 2007 and 1 monitoring well (EWB002) was gauging for depth to water and total depth on June 21st, 2007 as part of the June 2007 Baseline Monitoring (Round 2) and Quarterly Groundwater Monitoring Plan. These monitoring wells were also inspected during gauging and sampling activities for any damage or missing materials. A total of 16 monitoring wells were reported to be in good condition.

- A total of 16 monitoring wells were purged and sampled between June 18th, 2007 and June 21st, 2007 using a Grundfos electrical submersible pump, Monsoon pump (low flow), Horiba water tester with flow through cell and a Solinst water level meter. Ten wells were purged using the low flow purging technique (Monsoon pump) and six wells were purged using the regular purging technique (Grundfos pump). Laboratory Task Order and Pre-field Checklist are included in Appendix A. Field instruments were calibrated daily in the field and the calibration data sheets and material safety data sheets for field instrument calibration are included in Appendix B.

- A turnaround time of 5 days was requested for lab analysis of all samples.

- Purge water (330 gallons) was transported to an onsite storage tank located in the treatment compound.

Please contact the undersigned at (714) 560-8200, if you have any questions or comments. TEM is pleased to be of continued service to Boeing Realty Corporation.

Sincerely,

Tait Environmental Management, Inc.

Carmen Lo
Environmental Analyst

Clara Boeru
Project Manager

Appendices:

A – June 2007 Baseline Monitoring (Round 2) and Quarterly Groundwater Monitoring Plan, Laboratory Task Order and Pre-field Checklist

B – Daily Field Reports, Health & Safety Meeting Forms, Chain of Custody Records, Groundwater Sampling Data Sheets, Field Instrument Calibration Data Sheets, Material Safety Data Sheets, Investigation Derived Waste (IDW) Inventory Record, QA/QC Sample Identification Forms and Gauging Data Sheet

June 2007
Baseline Monitoring (Round 2) and Quarterly Groundwater Monitoring Plan Former Building 1/36 Former C-6 Facility, Boeing Realty Corporation Los Angeles, California

Table 1B presents the details of the June 2007 monitoring round for Former Building 1/36 area wells, which includes:

- Second baseline monitoring round of 15 wells (14 existing and 1 to be installed in mid-June as shown on Table 1B) will be required under the pending Site-Specific WDR groundwater monitoring program for the upcoming Former Building 1/36 pilot biorecirculation test. This also includes second round of quarterly sampling for one of the wells installed in 2006 (EWB001).
- Second round of quarterly sampling of one new monitoring well (EWC001) installed in 2006.

All wells will be gauged prior to collecting groundwater samples to determine static water levels and total well depth. Please note that the amendment wells (well IDs staring with "AW") have been recently exposed for the upcoming pilot study and require a notch or mark to be made on the casing for use as a reference point during the current and future water level measurements. The well locations are shown on the attached Figure 1B. Except as modified below, all procedures, including quality assurance (QA) and data validation, will be as described in the 2007 Groundwater Monitoring Work Plan (CDM, February 5, 2007).

Baseline Monitoring

Except for well EWB001 as noted in the next section, low-flow purging techniques, to maintain uniform flow rates on the order of 0.1 to 0.5 liters/min, will be used to collect groundwater samples and minimize disturbance to the groundwater in the wells such that drawdown is less than 0.3 foot. Samples collected from each well will be tested for biogeochemical parameters using an YSI unit, field test kits, and fixed-base laboratory analyses. The YSI unit or equal, with a calibrated probe placed in a flow through cell, will be used to measure pH, dissolved oxygen (DO), oxidation-reduction potential (ORP), Electrical Conductivity (EC), and temperature. A turbidity meter (Hach 2100P or equal) shall be used to monitor turbidity of the water during purging. Hach, Inc. field test kit will be used to measure ferrous iron (Fe [II]). During purging, at least pH, conductivity, turbidity, and DO should stabilize such that three successive readings should be within ± 0.1 for pH, ± 3% for conductivity, and ± 10% for turbidity and DO.

During the purging, a minimum of one tubing volume (including the volume of water in the pump and flow cell) must be purged prior to recording the water-quality indicator parameters. Following field analyses, groundwater samples will be collected for laboratory analysis as shown on Table 1B.

Quarterly Monitoring

For well EWC001, which is designated for quarterly monitoring only and well EWB001 which will be equipped with a permanent downhole submersible pump, the purging and sampling procedures described in the 2007 Groundwater Monitoring Work Plan (CDM, February 5, 2007 will be followed. Groundwater samples will be collected from these wells for field testing and laboratory analysis as shown on Table 1B.

Table 1B - SECOND PRIORITY
Baseline Monitoring (2nd Round) and Quarterly Sampling Plan
Former Building 1/36
Boeing Reality Corporation, Former C-6 Facility
Los Angeles, California

Well ID	Water Bearing Unit	Sampling Order (March 2007)[1]	June 2007 Quarterly Event and WDR Analytical Program					
			Water Level Gauging	VOCs (8260B)[2]	Field Parameters and measurements[3]	Total Organic Carbon and Volatile Fatty Acids[4,5]	Dissolved Gases and Minerals[6,7]	qPCR and Rdase genes (tceA, vcrA, and bvcA)[8]
Baseline Monitoring Only								
AW0055UB	B-Sand	--	x	x	x	x	x	x
AW0064UB	B-Sand	--	x	x	x	x	x	x
AW0065UB	B-Sand	--	x	x	x	x	x	x
AW0066UB	B-Sand	--	x	x	x	x	x	x
AW0067UB	B-Sand	--	x	x	x	x	x	x
AW0074UB	B-Sand	--	x	x	x	x	x	x
AW0075UB	B-Sand	--	x	x	x	x	x	x
AW0076UB	B-Sand	--	x	x	x	x	x	x
AWOO77UB	B-Sand	--	x	x	x	x	x	x
AW0073C	C-Sand	--	x	x	x	x	x	x
TMW_07	B-Sand	3	x	x	x	x	x	x
WCC_6S	B-Sand	2	x	x	x	x	x	x
WCC_12S	B-Sand	5	x	x	x	x	x	x
EWB002 - TO BE INSTALLED AND DEVELOPED by JUNE 15	B-Sand	--	x	x	x	x	x	x
Quarterly and Baseline Monitoring								
EWB001[9]	B-Sand	4	x	x	x	x	x	x
Quarterly Monitoring Only								
EWC001	C-Sand	1	x	x	x			
Quality Control Samples[10]								
Duplicates (1 per 20 wells)				x (1)				
Rinseate Blanks (1 per day)				x (3)				
Trip Blanks (1 per day)				x (3)				

Notes:

[1] There is no data yet available for the amendment wells (Prefix "AW00..") from the May sampling, therefore there is no required sampling order for these wells. Sampling order for subsequent events will be based on the results of the most recent sampling data available at the time of sampling

[2] VOCs = Volatile organic compounds by EPA Method 8260B

[3] Field Parameters = pH, Dissolved oxygen (DO), oxidation-reduction potential (ORP), turbidity, Electrical Conductivity (EC), temperature, and ferrous iron.

[4] Total organic carbon (TOC) by EPA Method 9060 Modified or 415.1 or equal

[5] Volatile Fatty Acids by Ion Chromatography (IC) by Microseeps

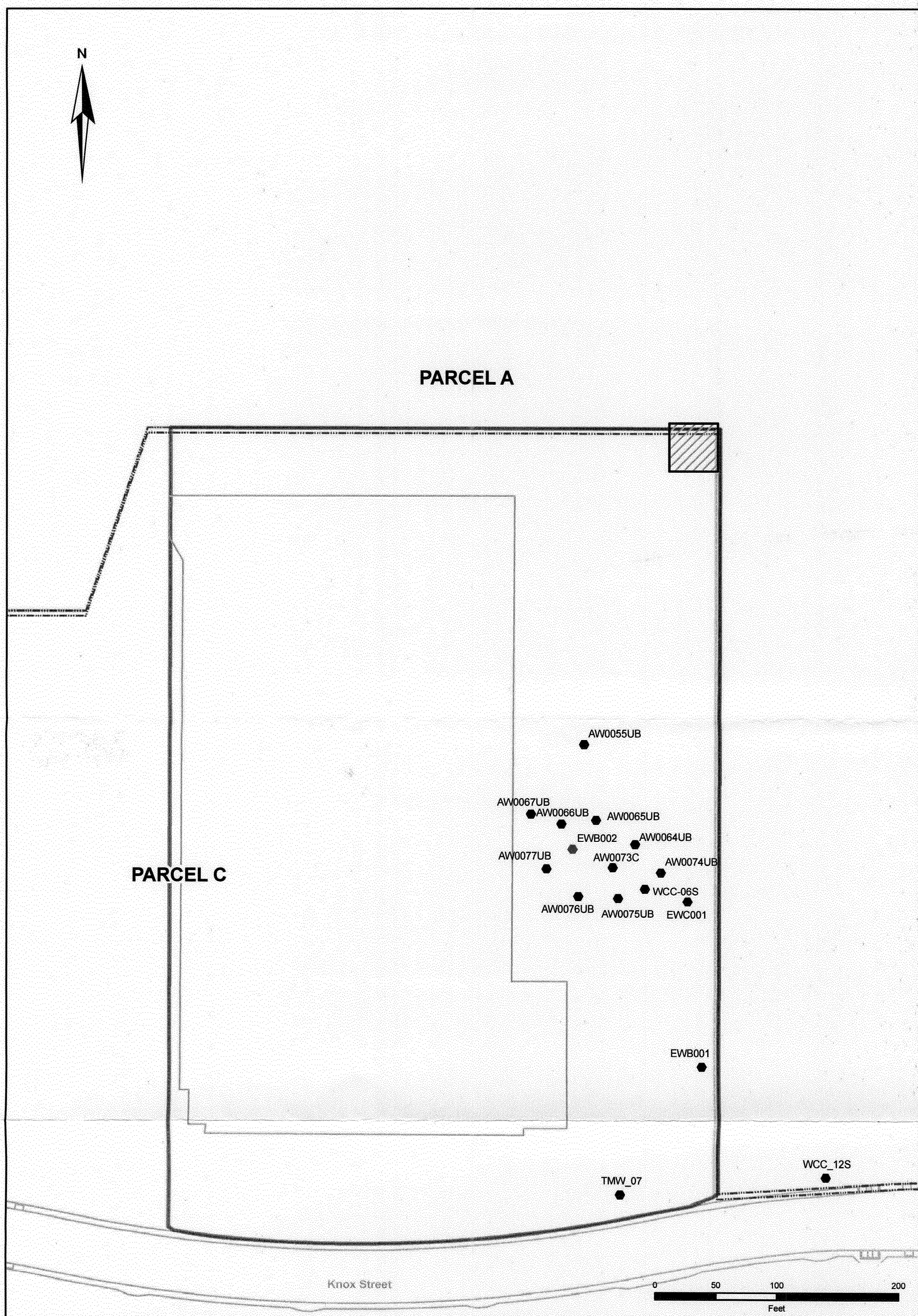
[6] Dissolved gases (carbon dioxide, nitrogen, ethane, ethane and methane) by RSK 175 and SM 4500-C (carbon dioxide)

[7] Minerals (sulfate, nitrite, nitrate, ammonia nitrogen, orthophosphate, and chloride) by EPA Method 300 Series or equal, Total alkalinity by EPA Method 310 or equal

[8] qPCR =Quantitative Polymerase Chain Reaction test for Dehalococcoides bacteria and functional gene analyses for the three reductase (RDase) genes - tceA (TCE RDase), vcrA, and bvcA (BAV1 RDase) - By Northwind Environmental

[9] A permanent submersible pump will be installed by others in this well in mid-June 2007. The samples will have to collected using this pump

[10] Quality control sample number based on estimated number of sampling days.



May 23, 2007

Legend

- Existing Compound
- Parcel Boundary
- Property Boundary
- Lot 8 Boundary
- Groundwater Monitoring Locations
- New Groundwater Monitoring Location

CDM

Boeing Realty Corporation
Former C-6 Facility

June 2007 Quarterly and
Baseline Groundwater Monitoring Locations
Former Building 1/36

Figure 1B

LABORATORY TASK ORDER (LTO) FORM

INSTRUCTIONS: To be completed by Environmental Contractor & Emailed to Laboratory Project Manager, CH2M HILL (boingadma@ch2m.com) & the Data Validator at Least 48 hrs prior to need for sample containers. Project Analytical Laboratory will confirm receipt via E-Mail.

Event Name: *Baseline Monitoring (Round 2) and Quarterly Groundwater Monitoring Sampling Event June 2007, Former Building 1/36, Former C-6 Facility, Torrance*

Start: 6/13/2007 **End:** 6/20/2007

LTO DATE: 1-Jun-07

LTO NUMBER: LTO-C6SWG060107

Consultant Name: Tait Environmental Mgmt.
Address: 701 North Parkcenter Drive, Santa Ana, CA 92705

Contact Name: Clara Boeru
Phone Number: (714) 560-8614
Fax Number: (714) 560-8235
E-mail Address: cboeru@tait.com

Contract Laboratory: Test America
Address: 17461 Derian Ave., Suite 100, Irvine, California 92614-5817

Lab Contact Name: Nick Marz
Phone Number: (949) 261-1022
Fax Number: (949) 260-3297
E-mail Address: nmarz@testamericainc.com

SAMPLE CONTAINER ORDER FORM

Date Required: 06/11/07
06/14-20/2007
9:00:00 AM
Date Sample Pickup: (estimated)

Ship Containers To:

Project Site _____ *(enter "X")*

Consultant Office X *(enter "X")*

Other Location (specify in comments) _____ *(enter "X")*

Container Information:

Trip Blank (VOA only) Yes *(Yes/No)*
Temp Blank (VOA Only) Yes *(Yes/No)*
DI Water Required? Yes *(Yes/No)*
MS/MSD Extra Bottles? No *(Yes/No)*

Sample Matrix:

Soil _____ *(select all applicable)*
Water X *(select all applicable)*
Vapor _____ *(select all applicable)*

Est. Total # of Samples: 16 Est. Total # of EDDs 5

Requested Analyses: (Specify # of Samples)

	Water	Soil	Vapor
EPA 8015M (GRO)			
EPA 8015M (DRO)			
EPA 8015M (JET FUEL)			
EPA 8015M (OC)			
EPA 8260B (VOC)	16		
TOC (415.1) and Volatile Fatty Acids by IC	15		
DHGs: (ethane, ethene and methane) (RSK-175)	15		
CO2 (SM4500-C)			
Sulfate, nitrite, nitrate, and chloride (by EPA 300)	15		
qPCR (Dehalococcoides Bacteria)	15		
Total Alkalinity (310)	15		
Rdase Gnes (tceA, vcrA, and bvcA)	15		
EPA 625/8270C (SVOC)			
EPA 8310 (PAH)			
EPA 8082 (PCB)			
EPA TO-15 VOCs (Scan)			
EPA TO-15 VOCs (SIM)			
CCR Title 22 Metals			
Total Lead			
Wet Chemistry (pH, etc.)			
General Minerals			
Fish Bioassay			
EPA TO-14 (VOCs)			

LABORATORY REPORTING REQUIREMENTS

Project TAT:

Normal: _____ (10 Business days)
RUSH: _____ (Specify- 24 / 48 / 72HRS)
Other : 5 (Specify # of Days)
Report Due Date: 06/27/07

Laboratory Results/Reports Deliverables:

Draft Results Fax?: No (Yes/No)
Draft Results E-mail?: Yes (Yes/No)

Specify Fax/E-mail Contact Name, #, E-mail Address:
cboeru@tait.com

Send Original Reports To:
Project Site _____ *(enter "X")*
Consultant Office X *(enter "X")*
Other Location (specify in comments) _____ *(enter "X")*

# of Copies Reports Req.: _____

Special Reporting Requirements:

Contingent Analysis? _____ *(Yes/No)*
TIC (VOC) Required? _____ *(Yes/No)*
TIC (SVOC) Required? _____ *(Yes/No)*
Data Validation Package: _____ (Boeing Tier I, II or III)

SPECIAL INSTRUCTIONS/LTO NOTES (PLEASE READ)

PLEASE INCLUDE: TRIP BLANKS (1 PER DAY), TEMPERATURE BLANKS (1 PER DAY), RINSEATE BLANKS (1 PER DAY), DUPLICATE (1 SET), COOLERS, AND DI WATER DELIVERED DAILY IN TWO-GALLON CONTAINERS.
PLEASE ADD A BOX OF NON PRESERVED VOAs FOR BACKUP/BUBBLE SITUATIONS.

CONFIRMATION OF TRANSMITTAL & RECEIPT

LTO Sent By:
Name: Clara Boeru
Date: 06/01/07

LTO Received By:
Name: _____
Date: _____

LTO-C6T06132007
6/27/2007

LABORATORY TASK ORDER (LTO) FORM (PAGE 2)

ADDITIONAL REQUIRED ANALYSES

LTO DATE: 1-Jun-07 **LTO NUMBER:** LTO-C6SWG060107

Consultant Name:	Tait Environmental Mgmt.	**Contract Laboratory:**	Test America
Address:	701 North Parkcenter Drive	Address:	17461 Derian Ave., Suite 100
	Santa Ana, CA 92705		Irvine, California 92614-5817
Contact Name:	Clara Boeru	**Lab Contact Name:**	Nick Marz
Phone Number:	(714) 560-8614	Phone Number:	(949) 261-1022
Fax Number:	(714) 560-8235	Fax Number:	(949) 260-3297
E-mail Address:	cboeru@tait.com	E-mail Address:	nmarz@testamericainc.com

SAMPLE CONTAINER ORDER FORM (CONTINUED)

Requested Analyses: **(Specify # of Samples)**

	Water	Soil	Vapor
List Method Name/Number Here			

Boeing Pre-Field Activities Checklist

This pre-field activities checklist has been prepared to facilitate compliance with work plans, protocols, permits, and procedures.

Boeing Project Name:	BRC- Former C-6 Facility
Field Activity:	June 2007 Baseline Groundwater Monitoring (Round 2) and Quarterly GMP
Date:	6/6/07
Field Work Start Date:	6/13/07

Contact Information:

Consultant/Contractor (Person & phone #)

Project Manager	Clara Boeru 714-560-8658
Chief Field Engineer/Technician	Lester Widner 714-657-6386
Health & Safety Officer:	Tom Dixon 714-560-8684
Sampling Technician	Jorge Armendariz 714-719-6897
Other (Field Testing/Data Entry)	Carmen Lo 714-412-9922

Boeing

Project Managers	Robert Scott 562-497-6176
	Joe Weidmann (H&A) 805-451-2320 (cell)
Technical Specialist	Ravi Subramanian (CDM) 949-752-5452
Facility Contact: South of Knox	Gary Koerner and Tony Mok (Sunrider) notified by H&A
	Chi Chi Tsai 310-222-9170 (locked areas)
	Bob Williams –Sunrider onsite contractor 909-200-5690
North of Knox	Jun Heramia (CTSI Logistics) to be notified by H&A
	Lib Madamba 310-381-9866
Permits/H&S Contact	Dennis Carlson (818) 535-7438
Waste Disposal Specialist	Scott Lattimore (562) 593-7156
Legal:	
Other:	

Subcontractors (as applicable)

No. 1	TestAmerica Services (949) 261-1022 (Lab Analysis)
No. 2	KM Industrial, Inc. (562) 983- 5191 (Waste Transport/Disposal)
	DemennoKerdoon: (310)537-7100 (TSDF)
No. 3	Laboratory Data Consultants (760) 634- 0437 (Data Validation)

Work Plans

- ☐ Work Plan prepared for work? Yes
- ☐ Name of Work Plan & Date. WDR Monitoring Program (CDM April 17, 2007) and associated Work Plan addendum for the pilot test documenting the baseline monitoring (CDM, February 1, 2007) submitted to the LARWQCB as part of the individual WDR Permit (currently being processed); Groundwater Monitoring Work Plan 2007, Former C-6 Facility , 19503 South Normandie Avenue, Los Angeles, California, February 5, 2007 (Agency Work Plan); June 2007 Baseline Monitoring (Round 2) and Quarterly Groundwater Monitoring Plan Former Building 1/36, Former C-6 Facility, BRC, Los Angeles, California, May 25, 2007 (Internal Sampling Plan)

- ❑ Was Work Plan Submitted to a regulatory Agency for approval? Yes (Agency Work Plan, Building 1/36 Addendum and WDR Monitoring Program)
- ❑ Was approval received? Yes Date: March 7, 2007
- ❑ Is Work Plan latest version? Yes
- ❑ Type of Work to be performed? Groundwater sampling and monitoring per the Work Plan, the WDR M Monitoring Program and the Internal Sampling Plan

Technical/Site-Specific

- ❑ Have work locations been marked? Yes Date: March 07, 2007
- ❑ Are there any obstacles to performing work? No
- ❑ If yes-method to clear obstacles?

Health & Safety

- ❑ Health & Safety Plan Submitted to Agency? Yes
- ❑ Health & Safety Plan reviewed by Field Team? Yes
- ❑ Proper PPE on Site? Team carries their own
- ❑ Extra PPE for Visitors? NA
- ❑ Have OSHA Certificates and currency been confirmed for workers? Yes
- ❑ Any Excavations? No
  If yes, then have geotechnical calculations/considerations been completed? By whom?_____Third Party & Registered?_____
- ❑ Health & Safety Officer Tom Dixon
- ❑ Perform subcontractor equipment safety audit prior to work start (guards, safety switches, General equipment condition)
- ❑ Pre-Field Tailgate Meetings:
  Worker Safety--onsite
  Equipment Safety--onsite
- ❑ Vehicular Safety--onsite
- ❑ Daily Tailgate/Safety Briefings--onsite
- ❑ Safety Zones established and how maintained? Yes, Team uses cones to delineate the work area

Utilities (NA)

- ❑ Have utilities been researched?
- ❑ Are utility plans available?
- ❑ Have utility plans been reviewed for work conflicts?
- ❑ If yes, what plans _____
- ❑ Has site been field-checked for utilities?
- ❑ Has DigSafe/DigAlert been notified? Confirmation #: _____NA_____
- ❑ Has independent utility locator service been completed?
- ❑ Any overhead utility present that may interfere with work?
- ❑ If yes, can work be moved?
- ❑ Will hand-augering be conducted? To what depth? _____
- ❑ Is any utility lock-out/tag-out needed?

- ❑ Other

Legal

- ❑ Confirm with Boeing Project Manager that legal issues are in order to perform field work. No legal issue to prevent the field work
- ❑ Do Proposition 65 notifications need to be posted at the site? No

Access Agreements

- ❑ Confirm with Boeing Project Manager if access agreements are needed. Done
- ❑ Are special pre-work notifications required by the access agreements? Yes, Done by Haley and Aldrich and field team to notify tenant before entering the site/property. Notification Letter sent to property Owner on May 18, 2007
- ❑ Who is the on-Site contact/tele # for work to be performed? Lester Widner (714) 657-6386
- ❑ Are copies of access agreements needed on site? No
- ❑ Do special work conditions need to be maintained per the access agreement? No
- ❑ Are there special work hours per the access agreement? 6 a.m. and 9 a.m
- ❑ Are traffic plans or traffic control necessary for work? ____No Plans, Use cones and caution tapes around the immediate work area
- ❑ Other

Notifications

- ❑ Has Boeing Project Manager been notified of the work start date/time? Yes
- ❑ Has Boeing Technical Specialist been notified of the work start date/time? Yes
- ❑ Has Boeing Permit Specialist been notified of the work start date/time? Yes
- ❑ Has Boeing Waste Disposal Specialist been notified of the work start date/time? Yes
- ❑ Is Regulatory Agency (ies) notification Required? Yes one week prior to sampling
  - ❑ Lead Agency CRWQCB
  - ❑ Support Agency _____
  - ❑ Local Agency _____
  - ❑ Other: _____
- ❑ If yes-what advance notice is required?
- ❑ Have they been notified?
- ❑ Has laboratory been notified of incoming samples?

Permits/Regulatory Agencies/Licenses

- ❑ Lead Regulatory Agency/Contact CRWQCB-LA – Ana Townsend
- ❑ Additional Regulatory Agencies:
  - ❑ Air Quality Agency
  - ❑ County Health Department
  - ❑ City Health Department
  - ❑ City Building Department
- ❑ Are permits required for work? Yes
  - ❑ Drilling Permit

- ☐ WDR/Waste Discharge Permit Indivdual WDR Permit being processed and scheduled for RWQCB approval at July 12, 2007 Board meeting
- ☐ Excavation Permit
- ☐ Rule 1166 Mitigation Plan/Permit
- ☐ Grading Permit
- ☐ City Business License
- ☐ Other

☐ **Has Boeing Permit Specialist reviewed and approved the permits for performing the work? (NA)**

☐ Are pre-work notifications required for permits? No

☐ If yes, which permits and how much advance notice _____

☐ Are there any conditions in the permit that could stop work?

☐ If yes, what are the conditions? _____

☐ Do mitigation measures exist if these conditions occur?_____

☐ What licenses are required to do work?_____

☐ Have contractor licenses been verified _____

Waste Management

☐ Type(s) of waste to be generated. Purged Groundwater

☐ Anticipated Volume to be generated. 400 gallons

☐ How will each type of waste be stored?

Water Purged into drums, from which water will be transferred and stored in a tank within the SVE compound by the end of each sampling day.

Soil

PPE

Other

☐ Has Boeing Waste Specialist been notified? Yes Who? Scott Lattimore, and Dennis Carlson

☐ Have proper containers been coordinated through Boeing Waste Specialist? Yes

☐ If not-why? _____

☐ Have proper waste container labels and labeling procedures been obtained from the Boeing Waste Specialist? Field team to provide labels in accordance with the standard waste handling protocol applicable to the site.

☐ How will waste be profiled? Non-haz pending lab data

☐ Any special waste handling/disposal needs? Yes (All purge water will be stored in onsite storage tank in the SVE compound). Waste water will be disposed of by KM industrial using previously established waste profile.

Portal/EDMS

☐ Have Sample/Object Numbers/Names been obtained from CH2Mhill? N/A Sample ID in accordance with DMP based on Object IDs from the portal. Notified CH2Mhill for sampling Schedule

☐ Other

Schedule

☐ Scheduled start date of field work 06/13/07

- ❑ Expected duration of field work 5-6 working days
- ❑ Contingency plan if work goes longer Field team is available to complete

Financial

- ❑ Has Boeing approved work order for work? Yes, under a general contract
- ❑ Is there a potential for scope/cost changes? No
- ❑ If yes-is change-order process established with Boeing Project Manager?

Person Filling out Checklist: **Clara Boeru**

Tait Environmental Management, Inc.

DAILY FIELD REPORT

Project Name: Boeing C-6	**Project #:** EM-2727-01	**Date:** 6/18/07
Personnel:	**Sub Contractors:**	

Task: GW PURGING AND SAMPLING

Time Arrived at Site: 7:00	**Time Left Site:**	**Total Hours at Site:**
Odometer (Start):	**Odometer (End):**	**Total Miles:**

Equipment List:

- ☑ ~~Solinst~~ Horiba Water Level Meter Serial #: TAIT #01
- ☐ Solinst Water/Product Level Interface Meter Serial #: _____
- ☑ Horiba U-22 Water Quality Meter Serial #: ~~[illegible]~~ SUPPLY ICY
- ☐ PID/FID Type: _____ Serial #: _____
- ☐ Submbersible Pump Type: _____ Serial #: _____
- ☐ Generator Type: _____ Serial #: _____
- ☐ Company Truck License #: _____
- ☐ Other(s): _____

Desription of Work Performed: (Summarize all field activities in a chronological sequence. Include tailgate health and safety meeting, personnel/visitors at site, calibration times and methods.)

6:00 WENT TO HOME DEPOT. P/U MATERIAL FOR SAMPLING
7:00 ARRIVED AT C-6. TAILGATE MEETING
TO PRE CALIBRATION OF HORIBA VERIFY WITH ALL SOLUTIONS
EVERYTHING FINE HORIBA

Client Signature (if applicable): _____ **Date:** _____

Page ___ of ___

Tait Environmental Management, Inc.

Project Name: BOEING	Project #: EM-2727-01	Date: 6/18/07

900. FINISHED CALIBRATION. GEORGE STARTED ON WELL WCC-12S.

915 I FILLED OUT ALL LABELS. AND PAPERWORK

1100 MADE UP RB BLANK & TB.

1130 TOOK FERROUS IRON & HYDROGEN SULFIDE READING

1200 - LEFT to BLDG 10 TO CHECK ON PRESSURES TEST & LABEL DRUM AT MW3018

1230 - SET-UP. HORIBA TOOK END OF DAY READING TO ~~VERIFY~~ VERIFIED HORIBA IS STILL ~~CAL~~ CALIBRATED. CLEANED UP LEFT SITE 1930

Tait Environmental Management, Inc.

DAILY FIELD REPORT

Project Name: Boeing C-6	**Project #:** EM-2727	**Date:** 6/19/07
Personnel: LW, JA	**Sub Contractors:** Klonos	

Task: GW Purging & Sampling

Time Arrived at Site: 6:00	**Time Left Site:**	**Total Hours at Site:**
Odometer (Start):	**Odometer (End):**	**Total Miles:**

Equipment List:

- ☐ ~~Solinst~~ Heron Water Level Meter Serial #: TAT #01
- ☐ Solinst Water/Product Level Interface Meter Serial #: _____
- ☐ Horiba U-22 Water Quality Meter Serial #: Enviro Supply
- ☐ PID/FID Type: _____ Serial #: _____
- ☐ Submbersible Pump Type: _____ Serial #: _____
- ☐ Generator Type: _____ Serial #: _____
- ☐ Company Truck License #: _____
- ☐ Other(s): _____

Desription of Work Performed: (Summarize all field activities in a chronological sequence. Include tailgate health and safety meeting, personnel/visitors at site, calibration times and methods.)

530. P/U ICE AND GAS.
6:05 ARRIVED ON SITE. TAILGATE MEETING
GEORGE SET UP ON FIRST WELL
6:10 I ~~[illegible]~~ CALIBRATED HORIBA.

Client Signature (if applicable): _____ **Date:** _____

Page ___ of ___

Project Name: Boeing C-6	Project #: GM-2927	Date: 6/19/07

720 FINISHED CALIBRATED. GEORGE STARTED ON WELL
730 FILLOUT LABEL & ORGANIZED BOTTLES.
FILLOUT CALIBRATED LOG. & OTHER PAPER WORK
GAVE GEORGE LABELS & BOTTLES FOR 2 WELLS.
9:00 LEFT TO OFFICE.
~~945~~ 945 ARRIVED AT OFFICE MEETING W/ CLARA.
DROPPED OFFICE PAPERWORK.
1015 LEFT TO ~~ENVIRO~~ ENVIRO SUPPLY DROPPED ~~OFF~~ HORIBA AND P/U HORIBA.
1030 LEFT TO ASHTEAD P/U MONSOON
11:45 LEFT ASHTEAD TO C-6.
1230 ARRIVED at C-6 GEORGE STARTED WELL.
I FILLED OUT LABELS FOR 2 MORE WELLS
1300 - SET UP to TAKE FERROUS IRON & HYDROGEN SULFIDE READINGS.
1400 - DAVID ARRIVED WITH BAILER. RE SAMPLED 3 WELLS.
1515 TEST AMERICA P/U SAMPLES.
1530 CHECK HORIBA FOR CALIBRATION O.K.
1600 - SET UP TO START O&M.

Tait Environmental Management, Inc.

DAILY FIELD REPORT

Project Name: BOEING C-6 BASELINE	**Project #:** EM · 2729	**Date:** 6/28/07
Personnel: LW & JA	**Sub Contractors:** NONE	

Task: GW PURGING & SAMPLING

Time Arrived at Site: 6:00	**Time Left Site:**	**Total Hours at Site:**
Odometer (Start):	**Odometer (End):**	**Total Miles:**

Equipment List:

- ☐ ~~Solinst~~ HERON Water Level Meter Serial #: TMT #01
- ☐ Solinst Water/Product Level Interface Meter Serial #: _____
- ☒ Horiba U-22 Water Quality Meter Serial #: ENVIRO SUPPLY #1
- ☐ PID/FID Type: _____ Serial #: _____
- ☐ Submbersible Pump Type: _____ Serial #: _____
- ☐ Generator Type: _____ Serial #: _____
- ☐ Company Truck License #: _____
- ☐ Other(s): _____

Desription of Work Performed: (Summarize all field activities in a chronological sequence. Include tailgate health and safety meeting, personnel/visitors at site, calibration times and methods.)

5:00 P/U ICE.
5:35 ARRIVED ON SITE TAILGATE MEETING
GEORGE LOADED UP HIS TRUCK & SET UP ON 1ST
~~OF~~ WELL

Client Signature (if applicable): _____ **Date:** _____

Page ___ of ___

Project Name: BOEING C6 BASELINE	Project #: EM-2727-01	Date: 6/20/07

545. I CALIBRATED HORIBA.
630 FINISHED CALIBRATION & GEORGE STARTED PURGING
645 I STARTED PAPERWORK. GETTING LABELS AND BOTTLES TOGETHER.
800 MADE UP BLANKS
830 TOOK FERROUS IRON READINGS (HYDROGEN SULFIDE
845 FINISHED WORKING ON LABELS.
1000 TRUCKING CO. BUSY. AW0075UB ~~[illegible]~~ CAN'T BE DONE TODAY. DUE TO TRUCK TRAFFICE. WE WILL DO 75UB TOMMORROW. IN IT PLACE WE WILL DO AW0066UB.
11:30 TOOK READING FERROUS IRON + HYDROGEN.
1300 LEFT TO C-1 TO HAND BAIL MW3018
1600 RETURN TO C-6. TOOK CALIBRATION READING FOR HORIBA. ALSO TOOK FERROUS IRON AND HYDROGEN SULFIDE READINGS.
1730 FINISHED CLEANED UP LEFT AT 1800.

Tait Environmental Management, Inc.

DAILY FIELD REPORT

Project Name: BOEING C-6 (BASELINE)	**Project #:** EM-2727-01	**Date:** 6/21/07
Personnel: LW + JA	**Sub Contractors:** NONE	

Task: GW PURGING + SAMPLING

Time Arrived at Site: 600	**Time Left Site:**	**Total Hours at Site:**
Odometer (Start):	**Odometer (End):**	**Total Miles:**

Equipment List:

- ☒ ~~Solinst~~ HORON Water Level Meter Serial #: TAIT #01
- ☐ Solinst Water/Product Level Interface Meter Serial #: _____
- ☒ Horiba U-22 Water Quality Meter Serial #: ENVIRO SUPPLY
- ☐ PID/FID Type: _____ Serial #: _____
- ☒ Submbersible Pump Type: GRUNDFOS Serial #: TAIT #01
- ☐ Generator Type: _____ Serial #: _____
- ☐ Company Truck License #: _____
- ☐ Other(s): _____

Desription of Work Performed: (Summarize all field activities in a chronological sequence. Include tailgate health and safety meeting, personnel/visitors at site, calibration times and methods.)

5:30 P/U WATER + ICE.
6:00 TAILGATE MEETING. GEORGE GUAGO EM3002 + SETUP ON 75DB. I CALIBRATED HORIBA

Client Signature (if applicable): _____ **Date:** _____

Page ___ of ___

Tait Environmental Management, Inc.

Engineering • Environmental • Compliance

Project Name: Boeing C-6 (Baseline	Project #: EM-272201	Date: 6/21/07

7:20 - Fillout labels and bottles. And paperwork

845 - Went to P/U new hose for EWB002.

945 - Made up trip blanks + RB blanks.

10:10 - Took Ferrous Iron - Hydrogen Sulfide readings

1120 Finished readings -

1135 Took S.S. Monsoon pump back to Ashtead.

1310 Back at C-6. P/U more ice

1330 Help George.

1400 Took Ferrous Iron + Hydrogen Sulfide readings

Cleaned up. Took Horiba Calibration readings

1430 Finished. Started

Tait Environmental Management, Inc.

Engineering • Environmental • Compliance

Project Name: Boeing C-6 Jung Basin	Project #: EM-2727	Date: 6/25/07

8:00 P/U EQUIPMENT FOR C-6 SAMPLING EVENT. DROPPED OFF at ENVIRO Supply.

9:30 WENT to OFFICE. FINISHED UP PAPERWORK, ~~[illegible]~~ EXPENSE REPORTS AND TRUCK LOGS.

1430 FINISHED EVERYTHING GAVE PAPERWORK to Carmen.

Page ___ of ___

Tait Environmental Management, Inc.
Engineering • Environmental • Compliance

Daily Tailgate Health & Safety Meeting
Agreement and Acknowledgement Sheet

Project Name: BOEING C-6	**Project #:** EM-2727
Site/Area Location/Well ID: C-6	
Date(s) Work Performed: 6/18/07	**Time:** ~~0~~ 715
Name Of Person Giving Tailgate **Print Name:** LESTOR WIDNER **Signature:** [signature]	**Affiliation:** NONE
Site-Specific Health & Safety Meeting Topics: HOT, TRAFFIC	

I have reviewed the plan, understand it, and agree to comply with all of the health and safety requirements. I understand that I may be prohibited from working on the project for violating any of the requirements. Visitors will be required to be escorted in the restricted access zone. Visitors must comply with Tait Environmental Management, Inc. escort directions while on site at all times. Non-compliance with escort directions will not be tolerated, and violators will be requested to leave the site immediately.

Physician based on medical examination has approved me to wear a respirator. I have been trained in the appropriate use, care, and storage of respiratory equipment. I have been respirator fit tested; and I have my respirator available for use in the field. I understand that I am to use the equipment supplied to me by my employer. I further understand that this equipment is provided solely for my benefit with the intent to minimize my exposure to potentially hazardous conditions. In the event of such usage, I agree to indemnify and hold harmless Tait Environmental Management, Inc. and all of its employees from and against any and all losses, demands, claims, liabilities, lawsuits, damages, costs, and expenses arising, in any way, from the use of the equipment.

Date	Name	Company Name	Signature
6/18/07	LESTOR WIDNER	TAIT	[signature]
6/18/07	JORGE ARMENDARIZ	TAIT	[signature]

Page __ of __

Tait Environmental Management, Inc.

DAILY SAFETY MEETING

Project Name: BOEING C-6 BASELINE **Date:** 6/21/07

Project Number: EM-2727-01 **Presented by:** L Widner

Check the Topics/Information Reviewed:

- [x] Safety is everyone's responsibility
- [x] Accidents can be costly
- [x] No horseplay
- [x] Site health and safety plan reviewed
- [x] Review emergency protocol
- [x] Directions to hospital
- [x] Employee Right-To-Know/MSDS location
- [x] First aid, safety, and PPE location
- [x] Safety glasses, hard hat, safety boots
- [x] Fire extinguisher locations
- [x] Daily work scope reviewed
- [x] Strains and sprains
- [x] Slips, trips, and falls
- [x] Eye wash station locations
- [x] Electrical ground fault
- [x] Vehicle safety and driving/road conditions
- [ ] Public safety and fences
- [x] Heat and cold stress
- [x] Equipment and machinery familiarization
- [x] Excavator swing and loading
- [x] Decontamination steps
- [x] Portable tool safety and awareness
- [x] Orderly site and housekeeping
- [x] Smoking in designated areas
- [x] Parking and lay down area
- [ ] Leather gloves for protection
- [x] Vehicle backing up hazards
- [x] Sharp object, rebar, and scrap metal hazards
- [x] Effects of the night before?
- [x] Weather conditions (rain/snow)
- [x] Latex gloves inner/nitrile gloves outer
- [x] Vibration related injuries
- [ ] Open pits, excavations, and trenching hazards
- [x] Noise hazards
- [ ] Dust and vapor control
- [ ] Excavation/trenching inspections/documentation
- [ ] Confined space entry
- [ ] Refueling procedures
- [ ] Full face respirators with proper cartridges
- [ ] Hot work permits
- [ ] Flying debris hazards
- [ ] Overhead utility locations cleared.
- [ ] Poison ivy / oak / sumac
- [ ] Upgrade to Level C at: PID (___ eV) >___ ppmv
- [ ] Work stoppage at: PID (___ eV) >___ ppmv, % LEL > 10%
- [ ] All underground utilities cleared?
- [ ] Flex-N-Stretch performed
- [ ] Anticipated visitors

Other Discussion Items/Comments/Follow-up Actions: TRAFFIC & HEAT

I have reviewed the plan, understand it, and agree to comply with all of the health and safety requirements. I understand that I may be prohibited from working on the project for violating any of the requirements. Visitors will be required to be escorted in the restricted access zone. Visitors must comply with Tait Environmental Management, Inc. escort directions while on site at all times. Non-compliance with escort directions will not be tolerated, and violators will be requested to leave the site immediately.

A physician based on medical examination has approved me to wear a respirator. I have been trained in the appropriate use, care, and storage of respiratory equipment. I have been respirator fit tested; and I have my respirator available for use in the field. I understand that I am to use the equipment supplied to me by my employer. I further understand that this equipment is provided solely for my benefit with the intent to minimize my exposure to potentially hazardous conditions. In the event of such usage, I agree to indemnify and hold harmless Tait Environmental Management, Inc. and all of its employees from and against any and all losses, demands, claims, liabilities, lawsuits, damages, costs, and expenses arising, in any way, from the use of the equipment.

NAME	SIGNATURE	COMPANY
Lester Widner	[signature]	TAIT
JORGE ARMENDARIZ	[signature]	TAIT

Instructions:

- Conduct a daily safety meeting prior to beginning each day's site activities
- Complete form, obtain signatures, and file with the Daily Summary

Tait Environmental Management, Inc.

DAILY SAFETY MEETING

Project Name: Boeing C-6 Baseline **Date:** 6/20/07

Project Number: EM-2727-01 **Presented by:** C. Widner

Check the Topics/Information Reviewed:

- ☑ Safety is everyone's responsibility
- ☑ Accidents can be costly
- ☑ No horseplay
- ☑ Site health and safety plan reviewed
- ☑ Review emergency protocol
- ☑ Directions to hospital
- ☑ Employee Right-To-Know/MSDS location
- ☑ First aid, safety, and PPE location
- ☑ Safety glasses, hard hat, safety boots
- ☑ Fire extinguisher locations
- ☑ Daily work scope reviewed
- ☑ Strains and sprains
- ☑ Slips, trips, and falls
- ☑ Eye wash station locations
- ☑ Electrical ground fault
- ☑ Vehicle safety and driving/road conditions
- ☑ Public safety and fences
- ☑ Heat and cold stress
- ☑ Equipment and machinery familiarization
- ☑ Excavator swing and loading
- ☑ Decontamination steps
- ☑ Portable tool safety and awareness
- ☑ Orderly site and housekeeping
- ☑ Smoking in designated areas
- ☑ Parking and lay down area
- ☑ Leather gloves for protection
- ☑ Vehicle backing up hazards
- ☑ Sharp object, rebar, and scrap metal hazards
- ☑ Effects of the night before?
- ☑ Weather conditions (rain/snow)
- ☑ Latex gloves inner/nitrile gloves outer
- ☑ Vibration related injuries
- ☐ Open pits, excavations, and trenching hazards
- ☑ Noise hazards
- ☐ Dust and vapor control
- ☐ Excavation/trenching inspections/documentation
- ☐ Confined space entry
- ☐ Refueling procedures
- ☐ Full face respirators with proper cartridges
- ☐ Hot work permits
- ☐ Flying debris hazards
- ☐ Overhead utility locations cleared.
- ☐ Poison ivy / oak / sumac
- ☐ Upgrade to Level C at: PID (___ eV) >___ ppmv
- ☐ Work stoppage at: PID (___ eV) >___ ppmv, % LEL > 10%
- ☐ All underground utilities cleared?
- ☐ Flex-N-Stretch performed
- ☐ Anticipated visitors

Other Discussion Items/Comments/Follow-up Actions: Traffic & Heat

I have reviewed the plan, understand it, and agree to comply with all of the health and safety requirements. I understand that I may be prohibited from working on the project for violating any of the requirements. Visitors will be required to be escorted in the restricted access zone. Visitors must comply with Tait Environmental Management, Inc. escort directions while on site at all times. Non-compliance with escort directions will not be tolerated, and violators will be requested to leave the site immediately.

A physician based on medical examination has approved me to wear a respirator. I have been trained in the appropriate use, care, and storage of respiratory equipment. I have been respirator fit tested; and I have my respirator available for use in the field. I understand that I am to use the equipment supplied to me by my employer. I further understand that this equipment is provided solely for my benefit with the intent to minimize my exposure to potentially hazardous conditions. In the event of such usage, I agree to indemnify and hold harmless Tait Environmental Management, Inc. and all of its employees from and against any and all losses, demands, claims, liabilities, lawsuits, damages, costs, and expenses arising, in any way, from the use of the equipment.

NAME	SIGNATURE	COMPANY
Cristor Widner	[signature]	TAIT
Jorge Hernandez	[signature]	TAIT

Instructions:

- Conduct a daily safety meeting prior to beginning each day's site activities
- Complete form, obtain signatures, and file with the Daily Summary

Tait Environmental Management, Inc.
Engineering • Environmental • Compliance

Daily Tailgate Health & Safety Meeting
Agreement and Acknowledgement Sheet

Project Name: Boeing C-6	**Project #:** EM-2727-01
Site/Area Location/Well ID: C-6	
Date(s) Work Performed: 6/19/07	**Time:** 605
Name Of Person Giving Tailgate **Print Name:** LESTER WIDNER **Signature:** Lester Widner	**Affiliation:** NONE
Site-Specific Health & Safety Meeting Topics: TRAFFIC, NONE	

I have reviewed the plan, understand it, and agree to comply with all of the health and safety requirements. I understand that I may be prohibited from working on the project for violating any of the requirements. Visitors will be required to be escorted in the restricted access zone. Visitors must comply with Tait Environmental Management, Inc. escort directions while on site at all times. Non-compliance with escort directions will not be tolerated, and violators will be requested to leave the site immediately.

Physician based on medical examination has approved me to wear a respirator. I have been trained in the appropriate use, care, and storage of respiratory equipment. I have been respirator fit tested; and I have my respirator available for use in the field. I understand that I am to use the equipment supplied to me by my employer. I further understand that this equipment is provided solely for my benefit with the intent to minimize my exposure to potentially hazardous conditions. In the event of such usage, I agree to indemnify and hold harmless Tait Environmental Management, Inc. and all of its employees from and against any and all losses, demands, claims, liabilities, lawsuits, damages, costs, and expenses arising, in any way, from the use of the equipment.

Date	Name	Company Name	Signature
6/19/07	LESTER WIDNER	TAIT	Lester Widner
6/19/07	JORGE ARMENDARIZ	TAIT	Jorge Armendariz

Page __ of __

TestAmerica
ANALYTICAL TESTING CORPORATION

949-260-3274
Nick Moss

CHAIN OF CUSTODY RECORD

To assist us in using the proper analytical methods, is this work being conducted for regulatory purposes?

Compliance Monitoring: yes yes No

Enforcement Action? Yes No

Client Name/Account #: Tait Environmental Management — Clara Boeru

Address: 701 North Parkcenter Drive — Clara Boeru

City/State/Zip: Santa Ana, CA 92705 — TEM06182007LW

Project Manager: Clara Boeru — C6 - Former Bldg 1/36

Telephone Number: (714) 560-8658 **Fax No.:** (714) 560-8235 — EM2727

Sampler Name: (Print) Jorge Armendariz/Lester Widner

Sampler Signature: [signature]

Sample ID / Description	Date Sampled	Time Sampled	No. of Containers Shipped	Grab	Composite	Field Filtered	Preservative: Ice	HNO3 (Red Label)	HCl (Blue Label)	NaOH (Orange Label)	H2SO4 Plastic (Yellow Label)	H2SO4 Glass(Yellow Label)	None (Black Label)	Other (Specify)	Matrix: Groundwater	Wastewater	Drinking Water	Sludge	Soil	Other (specify):	Analyze For: 8260B	Ethane, Ethene, Methane-RSK 175	Organic Acids	TOC 415.1	Sulfate-EPA 300.0	Nitrite (NO2)-EPA 300.0	Nitrate (NO3)-EPA 300.0	Chloride-EPA 300.0	Total Alkalinity-EPA 310.1	Rdase Genes (rceA. vcrA and bvcA)	Qpcr	VFAs	RUSH TAT (Pre-Schedule)	TAT (5 day)	Fax Results	Send QC with report
WCC_12S_WG061807_0001	6/18/07	1045	11	X			X	Various							X						X	X	X	X	X	X	X	X	X	X	X	X		X		X
EWB001_WG061807_0001	6/18/07	1338	11	X			X	Various							X						X	X	X	X	X	X	X	X	X	X	X	X		X		X
TMW_07_WG061807_0001	6/18/07	1505	11	X			X	Various							X						X	X	X	X	X	X	X	X	X	X	X	X		X		X
[redacted]																																				
RB_TAIT061807_0001	6/18/07	1100	3	X			X		X						X						X													X		X
TB_TAIT061807_0001	6/18/07	NA	3	X			X		X						X						X													X		X

Special Instructions:

Send qPCR and Rdase Genes to North Wind/Sent VFAs to Microsweeps

RB = Rinseate blank (or equipment blank)

Laboratory Comments:

Temperature Upon Receipt: 7°C

Sample Containers Intact? Y N

VOCs Free of Headspace? Y N

Method of Shipment:

Relinquished by:	Date	Time	Received by:	Date	Time
Jorge Armendariz	6-18-07	1726	[signature]	6/18	1726
Relinquished by:	Date	Time	Received by TestAmerica:	Date	Time

BOE-C6-0187393

TestAmerica
ANALYTICAL TESTING CORPORATION

CHAIN OF CUSTODY RECORD

To assist us in using the proper analytical methods, is this work being conducted for regulatory purposes?

Compliance Monitoring? yes yes No

Enforcement Action? Yes No

Client Name/Account #: Tait Environmental Management — Clara Boeru

Address: 701 North Parkcenter Drive — Clara Boeru

City/State/Zip: Santa Ana, CA 92705 — TEM06192007LW

Project Manager: Clara Boeru — C6 - Former Bldg 1/36

Telephone Number: (714) 560-8658 Fax No.: (714) 560-8235 — EM2727

Sampler Name: (Print) Jorge Armendariz/Lester Widner

Sampler Signature: [signature]

Sample ID / Description	Date Sampled	Time Sampled	No. of Containers Shipped	Grab	Composite	Field Filtered	Preservative: Ice	HNO_3 (Red Label)	HCl (Blue Label)	NaOH (Orange Label)	H_2SO_4 Plastic (Yellow Label)	H_2SO_4 Glass(Yellow Label)	None (Black Label)	Other (Specify)	Matrix: Groundwater	Wastewater	Drinking Water	Sludge	Soil	Other (specify):	Analyze For: 8260B	Ethane, Ethene, Methane-RSK 175	Organic Acids	TOC	Sulfate-EPA 300.0	Nitrite (NO2)-EPA 300.0	Nitrate (NO3)-EPA 300.0	Chloride-EPA 300.0	Total Alkalinity-EPA 310.1	Rdase Genes (rceA, vcrA and bvcA)	Qpcr	VFAs	RUSH TAT (Pre-Schedule)	TAT (5 day)	Fax Results	Send QC with report
WCC_06S_WG061907_0001	6/19/07	0842	11	X			X	Various							X						X	X	X	X	X	X	X	X	X	X	X	X		X		X
EWC001_WG061907_0001	6/19/07	1043	11	X			X	Various							X						X	X	X	X	X	X	X	X	X	X	X	X		X		X
AW0067UB_WG061907_0001	6/19/07	1421	11	X			X	Various							X						X	X	X	X	X	X	X	X	X	X	X	X		X		X
~~AW0055UB_WG061907_0001~~	~~6/19/07~~						~~X~~	~~Various~~							~~X~~						~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~		~~X~~		~~X~~
TB_TAIT061907_0001	6/19/07	NA	3	X			X		X						X						X													X		X
RB_TAIT061907_0001	6/19/07	0900	3	X			X		X						X						X													X		X
AW0074UB-061907-0001	6/19/07	1234	11	X			X		X						X						X	X	X	X	X	X	X	X	X	X	X	X		X		X

Special Instructions:

Send qPCR and Rdase Genes to North Wind/Sent VFAs to Microsweeps

RB = Rinseate blank (or equipment blank)

Method of Shipment:

Laboratory Comments:

Temperature Upon Receipt:

Sample Containers Intact? Y N

VOCs Free of Headspace? Y N

Relinquished by:	Date	Time	Received by:	Date	Time
[signature]	6/19/07	1520	[signature] TAI	6/19/07	1522
Relinquished by:	Date	Time	Received by TestAmerica:	Date	Time

BOE-C6-0187394

North Wind

NORTH WIND, INC.
CHAIN-OF-CUSTODY RECORD

Company Name: TAIT ENVIRONMENTAL MANAGEMENT	Sampler: LESTER WIDNER
Address: 701 N. PARKCENTER DR	Phone: 714-560-8200 Fax: 714.560.8235
City: SANTA ANA	Email: —
State: CA Zip: 92705	Project Manager: CIARA BOERU
Project Name: C-6 BASELINE SAMPLING	Phone: 714.560.8058 Fax: SAME
Project Location: TORRANCE	Email:

Page 1 of 1
Date: 6/19/07
COC #: TEM06192007LW
Carrier/Airbill #:

Sample Number	Sample Location	Date	Time	Depth	Sample Preservative	Sample Matrix	Analyses Requested: Release Gases (VOCs & DVOCs)		CAM PCB	VOCs		Type, Volume, and No. of Containers	Remarks/Special Instructions:
WCC-175-WG061907-0001		6/19/07	1430	N/A	SEE BOTTLES	1/20	X	X	X	X		4	
ENB001-WG061907-0001		6/19/07	1450	N/A	SEE BOTTLES	1/20	X	X	X	X		4	
TMW-07-WG061907-0001		6/19/07	1500	N/A	SEE BOTTLES	1/20	X	X	X	X		4	

Possible Hazard Identification
☒ Non-Hazardous ☐ Skin Irritant ☐ Rad ☐ Flammable ☐ Poison ☐ Unknown

Sample Disposal
☐ Return to Client ☒ Disposal by Lab

Other Comments

Relinquished by: (Signature/Company)	Received By: (Signature/Company)	Date	Time	Ship to:
[signature] 6/19/07 1525	[signature] TAI	6/19/07	1525	
Relinquished by: (Signature/Company)	Received By: (Signature/Company)	Date	Time	
Relinquished by: (Signature/Company)	Received By: (Signature/Company)	Date	Time	

Distribution: White copy accompanies samples during transfer of custody; Yellow copy is retained by customer.

ENVF-021.1_Rev 0
Effective 05/18/07

BOE-C6-0187395

TestAmerica
ANALYTICAL TESTING CORPORATION

CHAIN OF CUSTODY RECORD

To assist us in using the proper analytical methods, is this work being conducted for regulatory purposes?

Compliance Monitoring? yes yes No

Enforcement Action? Yes No

Client Name/Account #: Tait Environmental Management — Clara Boeru

Address: 701 North Parkcenter Drive — Clara Boeru

City/State/Zip: Santa Ana, CA 92705 — TEM06202007LW

Project Manager: Clara Boeru — C6 - Former Bldg 1/36

Telephone Number: (714) 560-8658 Fax No.: (714) 560-8235 — EM2727

Sampler Name: (Print) Jorge Armendariz/Lester Widner

Sampler Signature: Jorge Armendariz

Sample ID / Description	Date Sampled	Time Sampled	No. of Containers Shipped	Grab	Composite	Field Filtered	Preservative: Ice	HNO_3 (Red Label)	HCl (Blue Label)	NaOH (Orange Label)	H_2SO_4 Plastic (Yellow Label)	H_2SO_4 Glass(Yellow Label)	None (Black Label)	Other (Specify)	Matrix: Groundwater	Wastewater	Drinking Water	Sludge	Soil	Other (specify):	Analyze For: 8260B	Ethane, Ethene, Methane-RSK 175	Organic Acids	TOC	Sulfate-EPA 300.0	Nitrite (NO2)-EPA 300.0	Nitrate (NO3)-EPA 300.0	Chloride-EPA 300.0	Total Alkalinity-EPA 310.1	Rdase Genes (rceA, vcrA and bvcA)	Qpcr	VFAs	RUSH TAT (Pre-Schedule)	TAT (5 day)	Fax Results	Send QC with report
AW0073UB_WG062007_0001	6/20/07	0914	11	X			X	Various							X						X	X	X	X	X	X	X	X	X	X	X	X		X		X
AW0066UB_WG062007_0001	6/20/07	1412	11	X			X	Various							X						X	X	X	X	X	X	X	X	X	X	X	X		X		X
AW0064UB_WG062007_0001	6/20/07	1059	11	X			X	Various							X						X	X	X	X	X	X	X	X	X	X	X	X		X		X
TB_TAIT062007_0001	6/20/07	NA	3	X			X		X						X						X													X		X
RB_TAIT062007_0001	6/20/07	0800	3	X			X		X						X						X													X		X
FB_TAIT062007_0001	6/20/07	0815	3	X			X		X						X						X													X		X
AW0077UB_WG062007_0001	6/20/07	1243	11	X			X	Various							X						X	X	X	X	X	X	X	X	X	X	X	X		X		X
AW0055UB_WG062007_0001	6/20/07	0918	11	X			X	X	X	X	Various				X						X	X	X	X	X	X	X	X	X	X	X	X		X		X

Special Instructions:

Send qPCR and Rdase Genes to North Wind/Sent VFAs to Microsweeps

RB = Rinseate blank (or equipment blank)/FB = Field Blank

Laboratory Comments:

Temperature Upon Receipt:

Sample Containers Intact? Y N

VOCs Free of Headspace? Y N

Method of Shipment:

Relinquished by:	Date	Time	Received by:	Date	Time
Jorge Armendariz	6-20-07	1437	TAI	6/20/07	1439
Relinquished by:	Date	Time	Received by TestAmerica:	Date	Time

BOE-C6-0187396

TestAmerica
ANALYTICAL TESTING CORPORATION

CHAIN OF CUSTODY RECORD

To assist us in using the proper analytical methods, is this work being conducted for regulatory purposes?

Compliance Monitoring? yes No

Enforcement Action? Yes No

Client Name/Account #: Tait Environmental Management — Clara Boeru

Address: 701 North Parkcenter Drive — Clara Boeru

City/State/Zip: Santa Ana, CA 92705 — TEM06212007LW

Project Manager: Clara Boeru — C6 - Former Bldg 1/36

Telephone Number: (714) 560-8658 Fax No.: (714) 560-8235 — EM2727

Sampler Name: (Print) Jorge Armendariz/Lester Widner

Sampler Signature: J Armendariz

Sample ID / Description	Date Sampled	Time Sampled	No. of Containers Shipped	Grab	Composite	Field Filtered	Preservative: Ice	HNO3 (Red Label)	HCl (Blue Label)	NaOH (Orange Label)	H2SO4 Plastic (Yellow Label)	H2SO4 Glass(Yellow Label)	None (Black Label)	Other (Specify)	Matrix: Groundwater	Wastewater	Drinking Water	Sludge	Soil	Other (specify):	Analyze For: 8260B	Ethane, Ethene, Methane-RSK 175	Organic Acids	TOC	Sulfate-EPA 300.0	Nitrite (NO2)-EPA 300.0	Nitrate (NO3)-EPA 300.0	Chloride-EPA 300.0	Total Alkalinity-EPA 310.1	Rdase Genes (rceA, vcrA and bvcA)	Qpcr	VFAs	RUSH TAT (Pre-Schedule)	TAT (5 day)	Fax Results	Send QC with report
AW0076UB_WG062107_0001	6/21/07	0835	11	X			X	Various							X						X	X	X	X	X	X	X	X	X	X	X	X		X		X
AW0065UB_WG062107_0001	6/21/07	0734	11	X			X	Various							X						X	X	X	X	X	X	X	X	X	X	X	X		X		X
AW0065UB_WG062107_0001	6/21/07	1024	11	X			X	Various							X						X	X	X	X	X	X	X	X	X	X	X	X		X		X
EWB002_WG062107_0001	6/21/07	1334	11	X			X	Various							X						X	X	X	X	X	X	X	X	X	X	X	X		X		X
TB_TAIT062107_0001	6/21/07	NA	3	X			X		X						X						X													X		X
RB_TAIT062107_0001	6/21/07	1100	3	X			X		X						X						X													X		X
EWB200_WG062107_0001	6/21/07	1404	11	X			X	Various							X						X	X	X	X	X	X	X	X	X	X	X	X		X		X

Special Instructions:

Send qPCR and Rdase Genes to North Wind/Sent VFAs to Microsweeps

RB = Rinseate blank (or equipment blank)

Laboratory Comments:

Temperature Upon Receipt:

Sample Containers Intact? Y N

VOCs Free of Headspace? Y N

Method of Shipment:

Relinquished by:	Date	Time	Received by:	Date	Time
Jorge Armendariz	6-21-07	1433	[illegible]	6/21/07	1433
Relinquished by:	Date	Time	Received by TestAmerica:	Date	Time

BOE-C6-0187397

Groundwater Sampling Data Sheet

TAIT Environmental Management, Inc

Project Name: C-6 TORRANCE BASE LINE, JUNE 07	**Date:** 6-18-07
Project No.: EM 2727-01	**Prepared By:** JA
Well Identification: WCC-12S	**Weather:** CLOUDY / COOL
Measurement Point Description: TOC, N	**Pump Intake:** 75' **Screen:** 60-90

Depth to LNAPL (ft-bmp)	A Depth to Static Water Level (ft-bmp)	B Well Total Depth (ft-bmp)	C Water Column Height (ft) (A – B = C)	LNAPL Thickness (ft-bmp)	E One (1) Casing Volume (gallons) (C XD=E)	Three (3) Casing Volumes (gallons) (E x 3)	½ Casing Volume (E /2)	Above Screen Volume (Top screen – DTW)x r²	Screen Volume (Screen length x r²)	½ screen Volume
---	58.51 58.51	91.30	32.79	---	21.31	63.93	10.65	—	—	—

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

Field Equipment: Solinst, Horiba

Purge Method: 2" GRUNDFOS PUMP W/ DEDICATED TUBING

Well Condition: GOOD

Time	Casing/ Screen	Volume Purged (gallons)	Flow Rate (gpm)	Water Level (ft-bmp)	Ph	Temperature (°C)	Turbidity (NTU)	Conductivity m (S/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Observations
0949	0.5	11	1.0	59.31	7.20	23.3	18.0	2.04	10.06	-51	CLEAR/ NO ODOR
1000	1.0	22	1.0	59.30	7.20	23.3	7.7	2.05	10.08	-18	CLEAR/ NO ODOR
1011	1.5	33	1.0	59.30	7.21	23.4	-3.1	2.06	10.01	14	CLEAR/ NO ODOR
1022	2.0	44	1.0	59.30	7.21	23.4	-8.3	2.05	9.94	34	CLEAR/ NO ODOR
1033	2.5	55	1.0	59.30	7.21	23.6	-10.0	2.05	9.99	47	CLEAR/ NO ODOR
1044	3.0	66	1.0	59.30	7.22	23.6	-10.0	2.05	9.95	63	CLEAR/ NO ODOR

Purge Start Time	Purge End Time	Average Flow (gpm)	Total Gallons Purged	Total Casing Volumes Purged	80% Recovery Water Level Depth B - (C x .80)	Water Level at Sampling Time (ft-bmp)	Sample Collection Time	Sample Identification
0949	1044	1.0	68	3.0	65.07	10	1045	WCC-12S_WG061807-0001

Notes: INITIAL WATER COLOR: CLOUDY
FERROUS IRON: 0.12 mg/L
HYDROGEN SULFIDE: 0.0106 mg/L

PURGED WATER INTO COMPOUND TANK Dup.

Drum No. :

ft-bmp = feet below measuring point

BOE-C6-0187398

Groundwater Sampling Data Sheet

TAIT Environmental Management, Inc

Page ___ of ___

Project Name: C-6 TORRANCE BASELINE, JUNE 2007	**Date:** 6/18/07
Project No.: EM 2727-01	**Prepared By:** VA
Well Identification: EW0001	**Weather:** SUNNY / WARM
Measurement Point Description: TOC (N)	**Pump Intake:** 105' / **Screen:** 96'-111'

Depth to LNAPL (ft-bmp)	A Depth to Static Water Level (ft-bmp)	B Well Total Depth (ft-bmp)	C Water Column Height (ft) (A – B = C)	LNAPL Thickness (ft-bmp)	E One (1) Casing Volume (gallons) (C XD=E)	Three (3) Casing Volumes (gallons) (E x 3)	½ Casing Volume (E /2)	Above Screen Volume (Top screen – DTW)x D	Screen Volume (Screen length x D)	½ screen Volume
	60.20									
---	60.20 60.20	88.65	28.45	---	41.82	125.3	21	—	—	—

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

Field Equipment: Solinst, Horiba

Purge Method: 2" GRUNDFOS W/ DEDICATED TUBING

Well Condition: GOOD

Time	Casing/ Screen	Volume Purged (gallons)	Flow Rate (gpm)	Water Level (ft-bmp)	Ph	Temperature (°C)	Turbidity (NTU)	Conductivity (MS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Observations
1232	0.5	21	1.6	61.65	7.17	23.6	42.4	2.97	6.93	49	BLACK / NO ODOR
1245	1.0	42	1.6	61.88	7.22	23.6	184.0	2.31	3.26	55	BLACK / NO ODOR
1258	1.5	63	1.6	61.88	7.22	23.7	25.0	1.93	1.53	40	CLEAR / NO ODOR
1311	2.0	84	1.6	61.88	7.22	23.7	57.0	1.77	0.67	031	CLEAR / NO ODOR
1324	2.5	105	1.6	61.88	7.21	23.7	23.0	1.70	0.08	23	CLEAR / NO ODOR
1337	3.0	121	1.6	61.88	7.21	23.7	23.5	1.70	0.03	20	CLEAR / NO ODOR

Purge Start Time	Purge End Time	Average Flow (gpm)	Total Gallons Purged	Total Casing Volumes Purged	80% Recovery Water Level Depth (C x .80) - B	Water Level at Sampling Time (ft-bmp)	Sample Collection Time	Sample Identification
1219	1337	1.6	127	3.0	65.89	61.88	1338	EW0001_WG061907-0001

Notes: * INITIAL WATER COLOR BLACK
FERROUS IRON: 0.03 MG/L
HYDROGEN SULFIDE: 0.00 MG/L

* PURGED WELL WATER INTO COMPOUND TANK

ft-bmp = feet below measuring point

BOE-C6-0187399

Groundwater Sampling Data Sheet

TAIT Environmental Management, Inc

Project Name: C-L TORRANCE, BASE LINE, JUNE 2007	**Date:** 6-18-07
Project No.: EM 2727-01	**Prepared By:** JA
Well Identification: TMW-07	**Weather:** SUNNY / COOL
Measurement Point Description: TOC, N	**Pump Intake:** 75' / **Screen:** 65'-85'

Depth to LNAPL (ft-bmp)	A Depth to Static Water Level (ft-bmp)	B Well Total Depth (ft-bmp)	C Water Column Height (ft) (A – B = C)	LNAPL Thickness (ft-bmp)	One (1) Casing Volume (gallons) (C XD=E)	E Three (3) Casing Volumes (gallons) (E x 3)	½ Casing Volume (E /2)	Above Screen Volume (Top screen – DTW)x Γ	Screen Volume (Screen length x Γ)	½ screen Volume
---	61.24 61.24	82.60	21.36	---	—	—	—	0.60	3.2	1.6

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

Field Equipment: Solinst, Horiba

Purge Method: 2" GRUNDFOS PUMP W/DEDICATED TUBING

Well Condition: GOOD

Time	Casing/ Screen	Volume Purged (gallons)	Flow Rate (gpm)	Water Level (ft-bmp)	Ph	Temperature (°C)	Turbidity (NTU)	Conductivity mS/cm	Dissolved Oxygen (mg/L)	ORP (mV)	Observations
1452	ABOVE	0.6	0.5	61.30	7.28	24.1	556.0	1.46	14.76	79	CLOUDY / NO ODOR
1454	0.5	2.2	0.5	61.31	7.25	24.1	497.0	1.46	13.22	80	CLOUDY / NO ODOR
1456	1.0	3.8	0.5	61.31	7.24	24.1	474.0	1.46	12.82	82	CLOUDY / NO ODOR
1458	1.5	5.4	0.5	61.30	7.24	24.2	476.0	1.46	12.59	83	CLOUDY / NO ODOR
1500	2.0	7	0.5	61.31	7.23	24.4	458.0	1.46	12.17	84	CLOUDY / NO ODOR
1502	2.5	8.6	0.5	61.31	7.23	24.7	395.0	1.46	11.98	84	CLOUDY / NO ODOR
1504	1.0	10.2	0.5	61.31	7.23	24.7	350.0	1.46	11.37	85	CLOUDY / NO ODOR

Purge Start Time	Purge End Time	Average Flow (gpm)	Total Gallons Purged	Total Casing Volumes Purged	80% Recovery Water Level Depth B - (C x .80)	Water Level at Sampling Time (ft-bmp)	Sample Collection Time	Sample Identification
1451	1505	0.5	10.5	ABOVE: 0.6 SCREEN: 3.0	65.51	61.31	1505	TMW-07_WG061807-0001

Notes: * INITIAL WATER COLOR CLOUDY.
FERROUS IRON: 0.45 mg/L
HYDROGEN SULFIDE: 0.1166 mg/L

* PURGED WELL WATER TO CONTAINED TANK.

Dup.

Drum No. :

ft-bmp = feet below measuring point

BOE-C6-0187400

TAIT Environmental Management, Inc

Groundwater Sampling Data Sheet

Project Name: C-6 TORRANCE, BASELINE JUNE 2007 | **Date:** 6-19-07
Project No.: EM 2727-01 | **Prepared By:** J.A.
Well Identification: WCC-06S | **Weather:** CLOUDY / COOL
Measurement Point Description: TOC, N | **Pump Intake:** 70' | **Screen:** 60'-90'

Depth to LNAPL (ft-bmp)	A Depth to Static Water Level (ft-bmp)	B Well Total Depth (ft-bmp)	C Water Column Height (ft) (A – B = C)	LNAPL Thickness (ft-bmp)	E One (1) Casing Volume (gallons) (C XD=E)	Three (3) Casing Volumes (gallons) (E x 3)	½ Casing Volume (E /2)	Above Screen Volume (Top screen – DTW)x D	Screen Volume (Screen length x D)	½ screen Volume
---	60.05 60.05 60.05	84.85	24.8	---	16.12	48.36	8.06	—	—	—

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

Field Equipment: Solinst, Horiba
Purge Method: 2" GRUNDFOS PUMP W/ DEDICATED TUBING
Well Condition: GOOD

Time	Casing/ Screen	Volume Purged (gallons)	Flow Rate (gpm)	Water Level (ft-bmp)	Ph	Temperature (°C)	Turbidity (NTU)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Observations
0741	0.5	8.1	0.5	61.04	7.03	24.0	26.5	6.48	4.29	70	CLEAR/NO ODOR
0752	1.0	16.2	0.7	61.25	7.07	24.0	21.1	6.46	2.26	35	CLEAR/NO ODOR
0805	1.5	24.3	0.7	61.50	7.06	23.7	14.0	6.39	1.66	9	CLEAR/NO ODOR
0817	2.0	32.4	0.7	61.45	7.06	23.9	11.4	6.26	1.41	10	CLEAR/NO ODOR
0829	2.5	40.5	0.7	61.50	7.00	23.9	9.0	6.03	1.22	26	CLEAR/NO ODOR
0841	3.0	48.6	0.7	61.50	6.99	23.9	5.1	5.96	1.07	27	CLEAR/NO ODOR

Purge Start Time	Purge End Time	Average Flow (gpm)	Total Gallons Purged	Total Casing Volumes Purged	80% Recovery Water Level Depth B - (C x .80)	Water Level at Sampling Time (ft-bmp)	Sample Collection Time	Sample Identification
0725	0841	0.7	49	3.0	65.01	61.50	0842	WCC-06S-WG061907-0001

Notes: * INITIAL WATER COLOR: CLOUDY
FERROUS IRON – 0.54 mg/L
HYDROGEN SULFIDE – 0.0742 mg/L
* PURGED WELL WATER INTO CONTAINED TANK.
Dup.
Drum No. :

ft-bmp = feet below measuring point

BOE-C6-0187401

Groundwater Sampling Data Sheet

TAIT Environmental Management, Inc

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Project Name: FORMER C-6 FACILITY, TORRANCE	**Date:** 6-19-07
Project No.: EM 2727-01	**Prepared By:** JA
Well Identification: EWC001	**Weather:** SUNNY / WARM
Measurement Point Description: TOC, N.	**Pump Intake:** 103.5 **Screen:** 96- 111

Depth to LNAPL (ft-bmp)	A Depth to Static Water Level (ft-bmp)	B Well Total Depth (ft-bmp)	C Water Column Height (ft) (A – B = C)	LNAPL Thickness (ft-bmp)	One (1) Casing Volume (gallons) (C XD=E)	E Three (3) Casing Volumes (gallons) (E x 3)	½ Casing Volume (E /2)	Above Screen Volume (Top screen – DTW)x D	Screen Volume (Screen length x D)	½ screen Volume
---	59.85	122.55	62.7	---	—	—	—	23.50	9.75	4.88

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

Field Equipment: Solinst, Horiba

Purge Method: 2" GRUNDFOS W/DEDICATED TUBING

Well Condition: GOOD

Time	Casing/Screen	Volume Purged (gallons)	Flow Rate (gpm)	Water Level (ft-bmp)	Ph	Temperature (°C)	Turbidity (NTU)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Observations
1018	ABOVE	23.50	1.2	60.60	6.75	23.2	109.0	6.23	0.11	194	CLEAR/PAINT LIKE ODOR
1022	0.5	28.50	1.2	60.62	6.74	23.2	111.0	6.12	0.01	198	CLEAR/PAINT LIKE ODOR
1026	1.0	33.50	1.2	60.62	6.74	23.2	114.0	6.29	0.02	200	CLEAR/PAINT LIKE ODOR
1030	1.5	38.50	1.2	60.62	6.74	23.2	123.0	6.25	0.00	201	CLEAR/PAINT LIKE ODOR
1034	2.0	43.50	1.2	60.62	6.75	23.2	127.0	6.29	0.00	202	CLEAR/PAINT LIKE ODOR
1038	2.5	48.50	1.2	60.62	6.75	23.2	133.0	6.35	0.00	202	CLEAR/PAINT LIKE ODOR
1042	3.0	53.50	1.2	60.62	6.75	23.2	128.0	6.44	0.00	203	CLEAR/PAINT LIKE ODOR

Purge Start Time	Purge End Time	Average Flow (gpm)	Total Gallons Purged	Total Casing Volumes Purged	80% Recovery Water Level Depth B - (C x .80)	Water Level at Sampling Time (ft-bmp)	Sample Collection Time	Sample Identification
0957	1042	1.2	55	ABOVE 23.50 SCREEN 3.0	72.39	60.62	1043	EWC001-WG061907-0001

Notes: * INITIAL WATER COLOR : CLEAR

FERROUS IRON : 0.04 mg/L

HYDROGEN SULFIDE : 0.000 mg/L

* PURGED WELL WATER INTO COMPOUND TANK

Dup.

Drum No. :

ft-bmp = feet below measuring point

BOE-C6-0187402

Groundwater Sampling Data Sheet

TAIT Environmental Management, Inc

Project Name: C-6 BASELINE JUNE 2007	**Date:** 6-21-07
Project No.: EM 2727-01	**Prepared By:** JA
Well Identification: EWB 002	**Weather:** SUNNY / WARM
Measurement Point Description: TOC, N	**Pump Intake:** 78' / **Screen:**

Depth to LNAPL (ft-bmp)	A Depth to Static Water Level (ft-bmp)	B Well Total Depth (ft-bmp)	C Water Column Height (ft) (A – B = C)	LNAPL Thickness (ft-bmp)	E One (1) Casing Volume (gallons) (C XD=E)	Three (3) Casing Volumes (gallons) (E x 3)	½ Casing Volume (E /2)	Above Screen Volume (Top screen – DTW)x D	Screen Volume (Screen length x D)	½ screen Volume
---	60.52 60.52 60.52	94.30	33.78	---	49.66	148.98	24.83	—	—	—

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

Field Equipment: Solinst, Horiba

Purge Method: 2" GRUNDFOS PUMP W/ DEDICATED TUBING

Well Condition: GOOD (NEW)

Time	Casing/ Screen	Volume Purged (gallons)	Flow Rate (gpm)	Water Level (ft-bmp)	Ph	Temperature (°C)	Turbidity (NTU)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Observations
1213	0.5	24.83	1.5	63.26	6.59	23.4	15.7	2.78	0.55	92	CLEAR
1229	1.0	49.66	1.5	63.60	6.62	23.4	7.5	2.63	0.51	103	CLEAR
1245	1.5	74.49	1.5	63.80	6.61	23.4	2.1	2.66	0.63	106	CLEAR
1301	2.0	99.32	1.5	64.10	6.61	23.3	2.1	2.62	0.71	104	CLEAR
1317	2.5	124.15	1.5	64.30	6.61	23.3	1.1	2.56	0.83	103	CLEAR
1333	3.0	148.98	1.5	64.50	6.61	23.3	0.5	2.56	0.92	101	CLEAR
[redacted]											

Purge Start Time	Purge End Time	Average Flow (gpm)	Total Gallons Purged	Total Casing Volumes Purged	80% Recovery Water Level Depth (C x .80) - B	Water Level at Sampling Time (ft-bmp)	Sample Collection Time	Sample Identification
1157	1333	1.5	150	3.0	67.28	64.50	1334	EWB002_WG062107_0001
							1404	EWB200_WG062107_0001

Notes: * INITIAL WATER COLOR: CLEAR
INSTALLED NEW HOSE
FERROUS IRON – 3.30 mg/L (limit)
HYDROGEN SULFIDE – 0.106 mg/L
* PURGED WELL WATER INTO COMPOUND TANK.

ft-bmp = feet below measuring point

TAIT Environmental Management, Inc

Groundwater Sampling Data Sheet

Project Name:	C-6 BASELINE JUNE 2007	**Date:**	6-19-07
Project No.:	2727_01	**Prepared By:**	JA
Well Identification:	AW0067UB	**Weather:**	SUNNY / WARM **Screen:**
Measurement Point Description:	TOC, N	**Pump Intake:**	80' 70'-90'

Depth to LNAPL (ft-bmp)	Depth to Static Water Level (ft-bmp)	Well Total Depth (ft-bmp)	Water Column Height (ft)	LNAPL Thickness (ft-bmp)	One (1) Casing Volume (gallons)	Three (3) Casing Volumes (gallons)	Above Screen Volume	~~Screen~~ TUBING Volume (LITER)
	61.20 61.20 61.20	87.30	26.10	N/A	N/A	N/A	N/A	0.75

Well Diameter (in)				Gallons/Foot			
				0.75	2	4	6
0.75	2	4	6	0.02	0.16	0.65	1.47

Field Equipment: Solinst, HORIBA

Purge Method: MONSOON (LOW-FLOW)

Well Condition: GOOD

Time	Casing / Screen	Volume Purged (~~gallons~~)	Flow Rate (lpm)	Water Level (ft-bmp)	Ph	Temperature (°C)	Turbidity (NTU)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Observations
1410	1.0	1.0	0.5	61.40	6.82	23.0	999	3.31	3.43	68	YELLOW/GREY/CLOUDY
1412	2.0	2.0	0.5	61.40	6.73	22.9	999	3.34	18.3	78	GREY/CLOUDY
1414	3.0	3.0	0.5	61.42	6.72	22.7	508.0	3.31	1.32	91	LIGHT GREY / CLOUDY
1416	4.0	4.0	0.5	61.42	6.72	22.8	382.0	3.31	1.12	95	CLOUDY
1418	5.0	5.0	0.5	61.42	6.72	22.8	285.0	3.34	1.04	98	CLOUDY
1420	6.0	6.0	0.5	61.42	6.72	22.8	197.0	3.34	1.00	96	CLOUDY

Purge Start Time	Purge End Time	Average Flow (lpm)	Total ~~Gallons~~ LITERS Purged	Total ~~Casing~~ TUBING Volumes Purged	80% Recovery Water Level Depth	Water Level at Sampling Time (ft-bmp)	Sample Collection Time	Sample Identification
1408	1420	0.5	7.0	6.0	61.59	61.42	1421	AW0067UB_WG061907_0001

Notes: *INITIAL WATER COLOR: GREY

FERROUS IRON — 0.12 mg/L

HYDROGEN SULFIDE — 0.0742 mg/L

STORED PURGED WATER IN COMPOUND TANK

ft-bmp = feet below measuring point

Groundwater Sampling Data Sheet

TAIT Environmental Management, Inc

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Project Name: C-6 BASELINE, JUNE 2007	**Date:** 6-19-07
Project No.: EM 2727-01	**Prepared By:** JA
Well Identification: AW0074UB	**Weather:** SUNNY / WARM
Measurement Point Description: TOC, N	**Pump Intake:** 80' **Screen:** 70'-90'

Depth to LNAPL (ft-bmp)	A Depth to Static Water Level (ft-bmp)	B Well Total Depth (ft-bmp)	C Water Column Height (ft) (A – B = C)	LNAPL Thickness (ft-bmp)	E One (1) Casing Volume (gallons) (C XD=E)	Three (3) Casing Volumes (gallons) (E x 3)	½ Casing Volume (E /2)	Above Screen Volume (Top screen – DTW)x D	~~Screen~~ TUBING Volume (Screen length x D) (LITER)	½ screen Volume
---	59.92 59.92	88.30	28.38	---	N/A	N/A	N/A	N/A	0.77	N/A

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

Field Equipment: Solinst, Horiba

Purge Method: S.S. MONSOON (LOW FLOW)

Well Condition: GOOD

Time	Casing/ Screen	Volume Purged (gallons)	Flow Rate (gpm)	Water Level (ft-bmp)	Ph	Temperature (°C)	Turbidity (NTU)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Observations
1223	1.0	1.02	0.5	59.98	6.72	25.1	431.0	2.62	2.88	12.7	~~CLOUDY~~/NO ODOR
1225	2.0	2.04	0.5	60.00	6.70	24.7	350.0	2.62	2.16	12.3	CLOUDY/NO ODOR
1227	3.0	3.06	0.5	60.00	6.69	24.9	343.0	2.60	1.90	12.1	CLOUDY/NO ODOR
1229	4.0	4.08	0.5	60.00	6.68	25.2	297.0	2.61	1.67	11.9	CLOUDY/NO ODOR
1231	5.0	5.10	0.5	60.00	6.67	25.2	258.0	2.61	1.62	11.7	CLOUDY/NO ODOR
1233	6.0	6.12	0.5	60.00	6.67	25.3	232.0	2.61	1.57	11.7	CLOUDY/NO ODOR

Purge Start Time	Purge End Time	Average Flow (gpm)	Total ~~Gallons~~ LITERS Purged	~~Casing~~ TUBING Volumes Purged	80% Recovery Water Level Depth B - (C x .80)	Water Level at Sampling Time (ft-bmp)	Sample Collection Time	Sample Identification
1221	1233	0.5	8.12	6.0	65.60	60.00	1234	AW0074UB-WG061907-0001

Notes: * FLOW CELL CONTAINS 0.25 & A LITER INITIAL PURGE 1.0 LITER
* INITIAL WATER COLOR CLEAR

FERROUS IRON – 0.08 mg/L
HYDROGEN SULFIDE – 0.0954 mg/L

* PURGED WELL WATER INTO COMPOSITE TANK. Dup.

Drum No. :

ft-bmp = feet below measuring point

BOE-C6-0187405

Groundwater Sampling Data Sheet

TAIT Environmental Management, Inc

Project Name: C-6 BASELINE JUNE 2007	**Date:** 6-20-07
Project No.: EM 2727-01	**Prepared By:** JA
Well Identification: AW0073C	**Weather:** SUNNY / WARM
Measurement Point Description: TOC, N	**Pump Intake:** 106 **Screen:** 96'-116'

Depth to LNAPL (ft-bmp)	A Depth to Static Water Level (ft-bmp)	B Well Total Depth (ft-bmp)	C Water Column Height (ft) (A – B = C)	LNAPL Thickness (ft-bmp)	E One (1) Casing Volume (gallons) (C XD=E)	Three (3) Casing Volumes (gallons) (E x 3)	½ Casing Volume (E /2)	Above Screen Volume (Top screen – DTW)x D	TUBING ~~Screen~~ Volume (Screen length x D) (LITER)	½ screen Volume
---	60.96 60.96	117.50	56.54	---	N/A	N/A	N/A	N/A	1.52	N/A

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

Field Equipment: Solinst, Horiba

Purge Method: MONSOON (LOW FLOW), DEDICATED TUBING

Well Condition: GOOD

Time	INITIAL ~~Casing/~~ Purge ~~Screen~~ LITER	Volume Purged LITER ~~(gallons)~~	Flow Rate (gpm)	Water Level (ft-bmp)	Ph	Temperature (°C)	Turbidity (NTU)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Observations
0858	1.0	1.75	0.43	61.40	7.00	23.1	999	0.555	0.28	216	BLACK / BAD ODOR
0857	2.0	3.5	0.43	61.40	7.03	23.1	999	0.539	0.01	223	GREY / BAD ODOR
0901	3.0	5.25	0.43	61.55	7.01	23.0	505.0	0.546	0.00	233	GREY / BAD ODOR
0905	4.0	7.00	0.43	61.80	6.97	22.9	354.0	0.569	0.00	249	GREY / BAD ODOR
0909	5.0	8.75	0.43	61.80	6.96	23.2	167.0	0.560	0.00	266	LIGHT GREY / BAD ODOR
0913	6.0	10.5	0.43	61.80	6.96	23.4	124.0	0.539	0.00	275	LIGHT GREY / BAD ODOR

Purge Start Time	Purge End Time	Average Flow (gpm)	Total LITERS ~~Gallons~~ Purged	Total TUBING ~~Casing~~ Volumes Purged	80% Recovery Water Level Depth (C x .80) - B	Water Level at Sampling Time (ft-bmp)	Sample Collection Time	Sample Identification
0849	0913	0.43	12	6.0	72.27	61.80	0914	AW0073C-WG062007-0001

Notes: *INITIAL WATER COLOR: BLACK

FERROUS IRON — 0.21 mg/L
HYDROGEN SULFIDE 0.159 mg/L
D.O. – 0.00%

*PURGED WELL WATER INTO COMPOUND TANK.

ft-bmp = feet below measuring point

BOE-C6-0187406

Groundwater Sampling Data Sheet

TAIT Environmental Management, Inc

Project Name: C-6 BASELINE JUNE 2007	**Date:** 6-20-07
Project No.: EM 2727-01	**Prepared By:** JA
Well Identification: AW0066UB	**Weather:** SUNNY / HOT
Measurement Point Description: TOC, N	**Pump Intake:** 80 — **Screen:** 69.5' - 89.5

Depth to LNAPL (ft-bmp)	A Depth to Static Water Level (ft-bmp)	B Well Total Depth (ft-bmp)	C Water Column Height (ft) (A – B = C)	LNAPL Thickness (ft-bmp)	One (1) Casing Volume (gallons) (C XD=E)	E Three (3) Casing Volumes (gallons) (E x 3)	½ Casing Volume (E /2)	Above Screen Volume (Top screen – DTW)x D	~~Screen~~ TUBE Volume (Screen length x D) LITER	½ screen Volume
---	61.20	89.82	28.62	---	N/A	N/A	N/A	N/A	0.75	N/A

61.20

Well Diameter (in)	Gallons/Foot 0.75	1	2	4	6
D Gallons per foot of casing	0.02		0.16	0.65	1.47

Field Equipment: Solinst, Horiba

Purge Method: MONSOON (LOW FLOW)

Well Condition: GOOD

Time	LITER ~~Casing~~ ~~Screen~~ VOLUME	Volume Purged L ~~(gallons)~~	Flow Rate (gpm)	Water Level (ft-bmp)	Ph	Temperature (°C)	Turbidity (NTU)	Conductivity mS/cm	Dissolved Oxygen (mg/L)	ORP (mV)	Observations
1401	1.0	1.0	0.5	61.26	6.38	25.0	999	3.92	4.12	118	GREY
1403	2.0	2.0	0.5	61.26	6.38	24.9	999	3.96	3.14	111	GREY
1405	3.0	3.0	0.5	61.29	6.39	24.5	999	3.89	2.35	112	GREY
1407	4.0	4.0	0.5	61.29	6.41	24.8	999	3.84	2.09	112	GREY
1409	5.0	5.0	0.5	61.29	6.41	24.9	991.0	3.85	2.27	112	GREY
1411	6.0	6.0	0.5	61.29	6.41	24.8	851.0	3.87	1.76	110	GREY

Purge Start Time	Purge End Time	Average Flow (gpm)	Total ~~Gallons~~ Purged LITERS	Total ~~Casing~~ TUBE Volumes Purged	80% Recovery Water Level Depth B - (C x .80)	Water Level at Sampling Time (ft-bmp)	Sample Collection Time	Sample Identification
1359	1411	0.5	6.0	6.0	66.92	61.29	1412	AW0066UB-WG06 2007-0001

Notes: FLOW CELL 0.25 LITER
* INITIAL WATER COLOR: CLOUDY/GREY

FERROUS IRON: 3.24 mg/L
HYDROGEN SULFIDE 0.689 mg/L

* PUMPED WELL WATER INTO COMPOSITE TANK.

Dup.

Drum No. :

ft-bmp = feet below measuring point

BOE-C6-0187407

Groundwater Sampling Data Sheet

TAIT Environmental Management, Inc

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Project Name: C-6 BASELINE JUNE 2007	**Date:** 6-20-07
Project No.: EM 2727-01	**Prepared By:** JA
Well Identification: AW0064UB	**Weather:** SUNNY/WARM
Measurement Point Description: TOC,N	**Pump Intake:** 80' **Screen:** 68.5'-88.5'

Depth to LNAPL (ft-bmp)	A Depth to Static Water Level (ft-bmp)	B Well Total Depth (ft-bmp)	C Water Column Height (ft) (A – B = C)	LNAPL Thickness (ft-bmp)	E One (1) Casing Volume (gallons) (C XD=E)	Three (3) Casing Volumes (gallons) (E x 3)	½ Casing Volume (E /2)	Above Screen Volume (Top screen – DTW)x D	~~Screen~~ TOTAL Volume (Screen length x D) LITER	½ screen Volume
---	60.50 60.50	87.55	27.05	---	N/A	N/A	N/A	N/A	0.75	N/A

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

Field Equipment: Solinst, Horiba

Purge Method: MONSOON (LOW FLOW)

Well Condition: GOOD

Time	Casing/ Screen	Volume Purged (gallons)	Flow Rate (gpm)	Water Level (ft-bmp)	Ph	Temperature (°C)	Turbidity (NTU)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Observations
1048	1.0	1.0	0.5	60.83	6.66	23.2	74.8	2.22	5.42	131	GREY/NO ODOR
1050	2.0	2.0	0.5	60.85	6.64	23.2	59.4	2.26	4.23	129	CLOUDY/NO ODOR
1052	3.0	3.0	0.5	60.85	6.62	23.5	42.3	2.30	3.38	128	CLOUDY/NO ODOR
1054	4.0	4.0	0.5	60.85	6.62	23.6	37.7	2.27	3.01	128	CLOUDY/NO ODOR
1056	5.0	5.0	0.5	60.85	6.62	23.8	34.6	2.27	2.59	128	CLOUDY/NO ODOR
1058	6.0	6.0	0.5	60.85	6.62	23.9	32.7	2.27	2.56	128	CLOUDY/NO ODOR

Purge Start Time	Purge End Time	Average Flow (~~gpm~~)	Total ~~Gallons~~ Purged LITERS	Total ~~Casing~~ Volumes Purged	80% Recovery Water Level Depth (C x .80) - B	Water Level at Sampling Time (ft-bmp)	Sample Collection Time	Sample Identification
1046	1058	0.5	9.0	6.0	65.91	60.85	1059	AW0064UB-WG062007-0001

Notes: * FLOW CELL 0.25 LITER

FERROUS IRON – 0.09 mg/L

HYDROGEN SULFIDE – 0.1802 mg/L

* PURGED WELL WATER INTO COMPOUND TANK

ft-bmp = feet below measuring point

BOE-C6-0187408

TAIT Environmental Management, Inc

Groundwater Sampling Data Sheet

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Project Name: C-6 BASELINE, JUNE 2007	**Date:** 6-20-07
Project No.: EM 2727-01	**Prepared By:** JA
Well Identification: AW007UB	**Weather:** SUNNY/WARM/LIGHT WINDS
Measurement Point Description: TOC,N	**Pump Intake:** 80' **Screen:** 70.5' - 85.5'

Depth to LNAPL (ft-bmp)	A Depth to Static Water Level (ft-bmp)	B Well Total Depth (ft-bmp)	C Water Column Height (ft) (A – B = C)	LNAPL Thickness (ft-bmp)	E One (1) Casing Volume (gallons) (C XD=E)	Three (3) Casing Volumes (gallons) (E x 3)	½ Casing Volume (E /2)	Above Screen Volume (Top screen – DTW)x D	~~Screen~~ TUBING Volume (Screen length x D) LITER	½ screen Volume
---	61.50 61.50	82.90	21.4	—	N/A	N/A	N/A	N/A	0.72	N/A

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

Field Equipment: Solinst, Horiba

Purge Method: MONSOON (LOW FLOW)

Well Condition: GOOD

Time	~~Screen Volume~~ INITIAL PURGED	Volume Purged ~~(gallons)~~ LITER	Flow Rate (gpm)	Water Level (ft-bmp)	Ph	Temperature (°C)	Turbidity (NTU)	Conductivity mS/cm	Dissolved Oxygen (mg/L)	ORP (mV)	Observations
1232	1	1.0	0.5	62.15	6.48	25.2	999	4.41	3.83	180	YELLOW + BROWN / BAD ODOR
1234	2	2.0	0.5	62.15	6.18	26.9	999	3.99	3.89	155	
1236	3	3.0	0.5	62.15	6.11	27.2	999	3.98	3.93	153	
1238	4	4.0	0.5	62.15	6.10	29.4	999	3.82	1.11	158	
1240	5	5.0	0.5	62.15	6.12	26.7	999	4.04	1.19	156	
1242	6	6.0	0.5	62.15	6.14	25.5	999	4.00	1.25	157	
~~1244~~											

Purge Start Time	Purge End Time	Average Flow (gpm)	Total ~~Gallons~~ LITERS Purged	Total ~~Casing~~ TUBING Volumes Purged	80% Recovery Water Level Depth B - (C x .80)	Water Level at Sampling Time (ft-bmp)	Sample Collection Time	Sample Identification
1230	1242	0.5	7.0	6	65.78	62.15	1243	AW007UB_WG062007-0001

Notes: FLOW CELL 0.25 LITER
* INITIAL WATER COLOR: GOLD/BLACK

FERROUS IRON : 0.26 mg/L
HYDROGEN SULFIDE : 0.1908 mg/L

* PURGED WELL WATER INTO COMPOSITE TANK

Dup.

Drum No. :

ft-bmp = feet below measuring point

BOE-C6-0187409

Groundwater Sampling Data Sheet

TAIT Environmental Management, Inc

Project Name: C-6 BASELINE JUNE 2007	**Date:** 6-20-07
Project No.: EM 2727-01	**Prepared By:** JA
Well Identification: AW0055UB	**Weather:** SUNNY / HOT
Measurement Point Description: TOC, N	**Pump Intake:** 80' **Screen:** 69-89'

Depth to LNAPL (ft-bmp)	A Depth to Static Water Level (ft-bmp)	B Well Total Depth (ft-bmp)	C Water Column Height (ft) (A – B = C)	LNAPL Thickness (ft-bmp)	E One (1) Casing Volume (gallons) (C X D=E)	Three (3) Casing Volumes (gallons) (E x 3)	½ Casing Volume (E /2)	Above Screen Volume (Top screen – DTW)x D	TUBING ~~Screen~~ Volume (Screen length x D) LITER	½ screen Volume
---	60.71	88.60	27.89	---	N/A	N/A	N/A	N/A	0.75	N/A

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

Field Equipment: Solinst, Horiba

Purge Method: MONSOON (LOW FLOW)

Well Condition: GOOD

Time	INTERNAL PURGE VOLUME	Volume Purged L (~~gallons~~)	Flow Rate (gpm)	Water Level (ft-bmp)	Ph	Temperature (°C)	Turbidity (NTU)	Conductivity m(S/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Observations
0657	1	1.0	0.25	60.83	6.48	21.8	33.0	2.72	1.57	120	LIGHT GREY / NO ODOR
0701	2	2.0	0.25	60.83	6.49	22.2	27.9	2.78	1.66	118	CLEAR
0705	3	3.0	0.25	60.83	6.50	22.3	24.1	2.80	1.40	119	CLEAR
0709	4	4.0	0.25	60.84	6.51	22.6	17.6	2.83	1.39	119	CLEAR
0713	5	5.0	0.25	60.85	6.50	22.9	10.6	2.87	1.04	122	CLEAR
0717	6	6.0	0.25	60.85	6.49	23.0	10.9	2.96	1.00	123	CLEAR

Purge Start Time	Purge End Time	Average Flow (~~gpm~~) LPM	Total ~~Gallons~~ LITERS Purged	Total ~~Casing~~ TUBING Volumes Purged	80% Recovery Water Level Depth B - (C x .80)	Water Level at Sampling Time (ft-bmp)	Sample Collection Time	Sample Identification
0653	0717	0.25	7.0	6	66.29	60.85	0718	AW0055UB_WG062007_0001

Notes: * FLOW CELL 0.25 LITERS

FERROUS IRON - 2.00 mg/L

HYDROGEN SULFIDE - 0.2332 mg/L

D.O. 0.0 - 1.0%

* PURGED WELL WATER INTO COMPOUND TANK Dup.

Drum No. :

ft-bmp = feet below measuring point

BOE-C6-0187410

Groundwater Sampling Data Sheet

TAIT Environmental Management, Inc

Project Name: C-6 BASELINE, JUNE 2007	**Date:** 6-21-07
Project No.: EM 2727-01	**Prepared By:** JA
Well Identification: AW0076UB	**Weather:** SUNNY / WARM
Measurement Point Description: TOC, N	**Pump Intake:** 80' / **Screen:** 69-89

Depth to LNAPL (ft-bmp)	A Depth to Static Water Level (ft-bmp)	B Well Total Depth (ft-bmp)	C Water Column Height (ft) (A – B = C)	LNAPL Thickness (ft-bmp)	E One (1) Casing Volume (gallons) (C XD=E)	Three (3) Casing Volumes (gallons) (E x 3)	½ Casing Volume (E /2)	Above Screen Volume (Top screen – DTW)x D	~~Screen~~ TUBING Volume (Screen length x D) LITER	½ screen Volume
---	60.88 60.88 60.88	88.35	27.47	---	N/A	N/A	N/A	N/A	0.73	N/A

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

Field Equipment: Solinst, Horiba

Purge Method: MONSOON (LOW FLOW)

Well Condition: GOOD

Time	~~Casing Volume Purged~~ LITER	Volume Purged ~~(gallons)~~ LITERS	Flow Rate (gpm)	Water Level (ft-bmp)	Ph	Temperature (°C)	Turbidity (NTU)	Conductivity (~~mS/cm~~)	Dissolved Oxygen (mg/L)	ORP (mV)	Observations
0824	1.0	1.0	0.5	60.93	6.58	22.4	77.8	3.88	2.60	121	CLOUDY
0826	2.0	2.0	0.5	60.94	6.56	22.4	96.8	3.97	1.95	119	CLOUDY
0828	3.0	3.0	0.5	60.94	6.55	22.4	102.0	4.04	1.76	118	CLOUDY
0830	4.0	4.0	0.5	60.94	6.54	22.5	99.1	4.08	1.66	117	CLOUDY
0832	5.0	5.0	0.5	60.94	6.54	22.6	101.0	4.09	1.50	116	CLOUDY
0834	6.0	6.0	0.5	60.94	6.54	22.6	106.0	4.10	1.45	116	CLOUDY

Purge Start Time	Purge End Time	Average Flow (~~gpm~~)	Total ~~Gallons~~ LITER Purged	Total ~~Casing~~ TUBING Volumes Purged	80% Recovery Water Level Depth (C x .80) - B	Water Level at Sampling Time (ft-bmp)	Sample Collection Time	Sample Identification
0822	0834	0.5	6	6	66.37	60.94	0835	AW0076UB.WG062107-0001

Notes: FLOW CELL 0.25 LITERS

FERROUS IRON - 3.30 mg/L (limit)

HYDROGEN SULFIDE — 0.0954 mg/L

* DISPOSED OF WATER IN CONTAINER

ft-bmp = feet below measuring point

BOE-C6-0187411

TAIT Environmental Management, Inc

Groundwater Sampling Data Sheet

Project Name: C-6 BASELINE, JUNE 2007	**Date:** 6-21-07
Project No.: EM 2727-01	**Prepared By:** JA
Well Identification: AW0075UB	**Weather:** SUNNY / COOL
Measurement Point Description: TOC, N	**Pump Intake:** 80' **Screen:** 69'-89'

Depth to LNAPL (ft-bmp)	A Depth to Static Water Level (ft-bmp)	B Well Total Depth (ft-bmp)	C Water Column Height (ft) (A – B = C)	LNAPL Thickness (ft-bmp)	E One (1) Casing Volume (gallons) (C XD=E)	Three (3) Casing Volumes (gallons) (E x 3)	½ Casing Volume (E /2)	Above Screen Volume (Top screen – DTW)x D	TUBING ~~Screen~~ Volume (Screen length x D)	½ screen Volume
---	60.40 60.40	88.90	28.5	---	N/A	N/A	N/A	N/A	0.75	N/A

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

Field Equipment: Solinst, Horiba

Purge Method: MONSOON (LOW FLOW)

Well Condition: GOOD

Time	INITIAL ~~Casing~~ Volume LITERS	Volume Purged LITER ~~(gallons)~~	Flow Rate (lpm)	Water Level (ft-bmp)	Ph	Temperature (°C)	Turbidity (NTU)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Observations
0723	1.0	1.0	0.5	60.40	6.43	21.9	114.0	2.09	1.80	113	CLOUDY
0725	2.0	2.0	0.5	60.40	6.48	22.1	141.0	2.24	1.53	118	CLOUDY
0727	3.0	3.0	0.5	60.40	6.52	22.3	130.0	2.33	1.15	124	CLOUDY
0729	4.0	4.0	0.5	60.40	6.55	22.3	131.0	2.37	0.94	127	CLOUDY
0731	5.0	5.0	0.5	60.40	6.57	22.4	137.0	2.41	0.83	130	CLOUDY
0733	6.0	6.0	0.5	60.40	6.58	22.4	132.0	2.52	0.73	131	CLOUDY

Purge Start Time	Purge End Time	Average Flow (lpm)	Total LITERS ~~Gallons~~ Purged	Total TUBING ~~Casing~~ Volumes Purged	80% Recovery Water Level Depth (C x .80) - B	Water Level at Sampling Time (ft-bmp)	Sample Collection Time	Sample Identification
0721	0733	0.5	9	6.0	66.10	60.40	0734	AW0075UB-WG 062107-0001

Notes: FLOW CELL CONTAINS 0.25 LITER FERROUS IRON - 3.05 mg/L DISPOSED OF WATER COMPOUND

HYDROGEN SULFIDE - 0.2226 mg/L

ft-bmp = feet below measuring point

BOE-C6-0187412

Groundwater Sampling Data Sheet

TAIT Environmental Management, Inc

Page ___ of ___

Project Name: C-6 BASELINE, JUNE 2007	**Date:** 6/21/07
Project No.: EM 2727-01	**Prepared By:** JA
Well Identification: AW0065UB	**Weather:** SUNNY / WARM
Measurement Point Description: TOC, N	**Pump Intake:** 80'
	Screen: 68.5'-88.5'

Depth to LNAPL (ft-bmp)	A Depth to Static Water Level (ft-bmp)	B Well Total Depth (ft-bmp)	C Water Column Height (ft) (A – B = C)	LNAPL Thickness (ft-bmp)	E One (1) Casing Volume (gallons) (C XD=E)	Three (3) Casing Volumes (gallons) (E x 3)	½ Casing Volume (E /2)	Above Screen Volume (Top screen – DTW)x D	~~Screen~~ TUBWL Volume (Screen length x D) LITER	½ screen Volume
---	60.76 60.76 60.76	89.30	28.54	---	N/A	N/A	N/A	N/A	0.75	N/A

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

Field Equipment: Solinst, Horiba

Purge Method: MONSOON (LOW FLOW)

Well Condition: GOOD

Time	Casing/ Screen	Volume Purged (gallons)	Flow Rate (gpm)	Water Level (ft-bmp)	Ph	Temperature (°C)	Turbidity (NTU)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Observations
1003	1	1.0	0.25	60.86	6.55	24.3	392.0	3.39	4.12	106	CLOUDY
1007	2	2.0	0.25	60.87	6.53	24.1	459.0	3.60	3.19	105	CLOUDY
1011	3	3.0	0.25	60.87	6.53	24.4	237.0	3.63	2.67	103	CLOUDY
1015	4	4.0	0.25	60.87	6.52	24.3	84.2	3.66	2.66	103	CLOUDY
1019	5	5.0	0.25	60.87	6.52	24.3	47.7	3.67	2.39	104	CLEAR
1023	6	6.0	0.25	60.87	6.51	24.3	50.5	3.67	2.19	105	CLEAR

Purge Start Time	Purge End Time	Average Flow (gpm)	~~Total Gallons~~ LITER Purged	~~Total Casing~~ TUBWL Volumes Purged	80% Recovery Water Level Depth (C x .80) - B	Water Level at Sampling Time (ft-bmp)	Sample Collection Time	Sample Identification
0959	1023	0.25	7.0	6.0	66.47	60.87	1024	AW0065UB-WG062107-0001

Notes: FLOW CELL 0.25 LITERS
* STORED TUBING IN COMPOUND.

FERROUS IRON – 3.30 mg/L (LIMIT)
HYDROGEN SULFIDE – 0.1166 mg/L

* PURGED WELL WATER INTO COMPOUND TANK.

ft-bmp = feet below measuring point

BOE-C6-0187413

June 2007 Quarterly and WDR Monitoring Program

Former C-6 Facility

Los Angeles, California

	Well ID	Date	Time	Ferrous Iron (mg/L) (Field Measurement)	Hydrogen Sulfide (mg/L) (Field Measurement)	Dissolved Oxygen (Field Measurement)	Recorded By	Equipment Type	Comments
1	AW0055UB	6/20	830	2.00 mg/L	0.2332 mg/L	1.0%	LW	Hach DR/890	
2	AW0064UB	6/20	1210	0.09 mg/L	0.1802 mg/L	N/A	LW	Hach DR/890	
3	AW0065UB	6/21	1120	3.30 mg/L (limit)	0.1166 mg/L	N/A	LW	Hach DR/890	Fe meter limit
4	AW0066UB	6/20	1720	3.24 mg/L	0.689 mg/L	N/A	LW	Hach DR/890	
5	AW0067UB	6/19	1400	0.12 mg/L	0.0742 mg/L	N/A	LW	Hach DR/890	
6	AW0074UB	6/19	1355	0.08 mg/L	0.0954 mg/L	N/A	LW	Hach DR/890	
7	AW0075UB	6/21	1030	3.05 mg/L	0.2226 mg/L	N/A	LW	Hach DR/890	
8	AW0076UB	6/21	1055	3.30 mg/L (limit)	0.0954 mg/L	N/A	LW	Hach DR/890	(Fe) meter limit
9	AW0077UB	6/20	1700	0.26 mg/L	0.1908 mg/L	N/A	LW	Hach DR/890	
10	AW0073C	6/20	1140	0.21 mg/L	0.159 mg/L	0.0 %	LW	Hach DR/890	
11	TMW_07	6/18	1940	0.45 mg/L	0.1166 mg/L	N/A	LW	Hach DR/890	
12	WCC_6S	6/19	1925	0.54 mg/L	0.0742 mg/L	N/A	LW	Hach DR/890	
13	WCC_12S	6/18	1910	0.12 mg/L	0.0106 mg/L	N/A	LW	Hach DR/890	
14	EWB002	6/21	1400	3.30 mg/L (limit)	0.106 mg/L	N/A	LW	Hach DR/890	
15	EWB001	6/18	1925	0.03 mg/L	0.000 mg/L	N/A	LW	Hach DR/890	(Fe) meter limit
16	EWC001	6/19	1340	0.04 mg/L	0.000 mg/L	N/A	LW	Hach DR/890	
17									
18									
19									
20									

BOE-C6-0187414

3.2.2 AUTO calibration method

To obtain correct measurement, it is necessary to calibrate the sensor using the standard solution before performing measurement. Previous calibration records shown in calibration log.

(☞ 4.3.2 *Calling up The calibration log*, page 43.)

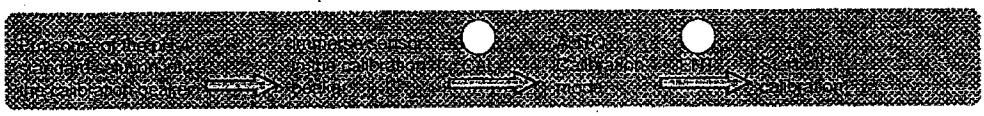
Note

In the AUTO calibration mode, the pH, COND, and TURB sensors are calibrated in the pH 4 standard solution, and the DO and DEP sensors in the atmosphere simultaneously.

Calibrate contents at 25°C are as follows:

pH:	set at 4.01 (zero calibration) and the Span is the adjustment value at the factory when shipping.
COND:	0.449 S/m (Span calibration), the Zero is the adjustment value at the factory when shipping.
TURB:	0 NTU (zero calibration), the Span is the adjustment value at the factory when shipping.
DO:	8.52 mg/L (Span calibration), the Zero is the adjustment value at the factory when shipping.
DEP:	0 m (Zero calibration), the Span is the adjustment value at the factory when shipping.

Values may be unstable if there is temperature fluctuation. Calibrate after waiting for about an hour.

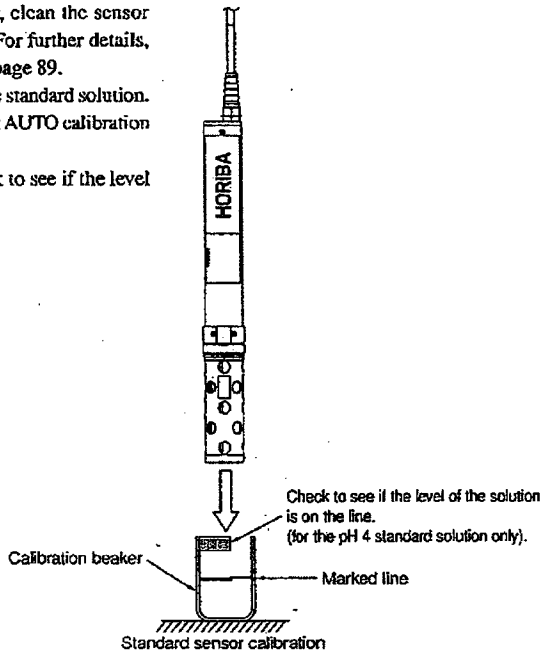


Calibrate using the following procedure.

1. Wash the sensor in distilled water a few times and put some of the pH 4 standard solution into the calibration beaker to the marked line. Then immerse the sensor in it.

Important

- To carry out calibration for turbidity accurately, clean the sensor surface that will be soaked in standard solution. For further details, see "Troubleshooting for the TURB sensor" on page 89.
- Use the "100-4" manufactured by HORIBA for the standard solution. With other standard solutions, you cannot carry out AUTO calibration correctly.
- Use the label on the calibration beaker and check to see if the level of the solution is on the label line.



BOE-C6-0187415

Tait Environmental Management, Inc.

Instrument Calibration Sheet

Project Name:	Boeing C-6	Project #:	EM-2727

Date	Time	Instrument Type	Instrument Serial No.	Calibration Method	TAPE / SOLINST		Horiba	Calibrated By
6/18/07	645	Heron	TAT #01	Steel Tape	25.00	25.02	N/A	JA/CW
6/18/07	07:00	Horiba	~~[illegible]~~	Auto PH.4	4.00	4.00		CW
6/18/07			810035		7.00	6.98		
6/18/07				800 NTU	800	810		
6/18/07				71.8 ms/cm	71.8	0.718 ms/cm		
6/18/07				D.O. 0%	0.0	0.0		
6/18/07				D.O 8.53	8.53	8.40		
6/18/07	9:30	Horiba	810035	ORP - 89mV	89mV	88 mV	N/A	CW
6/18/07	1830	Horiba	810035	Auto PH. 4.0	4.0	4.03		
6/18/07	1835			P.H. 7.0	7.0	7.02		
6/18/07	1840			800 NTU	800	811		
6/18/07	1845			71.8 ms/m	71.8 ms/m	0.720 ms/cm		
6/18/07	1900			D.O 0%	0.0	0.0		
6/18/07	1910			ORP.-89mV	89mV	87mV	N/A	CW

Tait Environmental Management, Inc.

Instrument Calibration Sheet

Project Name:	Boeing C-6	Project #:	BM-2727

Date	Time	Instrument Type	Instrument Serial No.	Calibration Method	TAPE / SOLINST		Horiba	Calibrated By
6/19/07	615	HORIBA	810035	AUTO 4.0 PH	4.0	3.98	YES	LW
6/19/07	620		COND.	71.8 MS/M	71.8 MS/M	71.8	YES	LW
6/19/07	630		D.O	0.0 %	0.0	0.0	YES	LW
6/19/07	640		SPAN (8.0)	8.84	8.84	8.84	YES	LW
6/19/07	650		TURB	800 NTU	800	810	YES	LW
6/19/07	700	HORIBA	ORP	89 mV	89mV	88mV	YES	LW
6/19/07	610	HORIBA	TAIT #01	STEEL TAPE	25.00	25.02	N/A	JA/LW
6/19/07	1530	HORIBA	810035	AUTO 4.0 PH	4.0	3.98	YES	LW
6/19/07	1535		CONDUCTIVITY	71.8 MS/M	71.8 MS/M		YES	LW
6/19/07	1540		D.O	0.0%	0.0	0.0	YES	LW
6/19/07	1545		TURB.	800 NTU	800	785	YES	LW
6/19/07	1550	HORIBA	ORP	89mV	89mV	87mV	YES	LW

Tait Environmental Management, Inc.
Engineering • Environmental • Compliance

Instrument Calibration Sheet

Project Name:	Boeing C-6 June Baseline	Project #:	EM.2727

Date	Time	Instrument Type	Instrument Serial No.	Calibration Method	TAPE / SOLINST		Horiba	Calibrated By
6/20	545	Horiba	810035	Auto P.H. 4.0	4.00	4.00	U-22	LW
	550			P.H. 7.0	7.00	7.01		
	555			D.O 0%	0.0	0.0		
	600			D.O. Span	9.18	9.18		
	605			Cond. 0.718	0.718	0.718		
	610			Turb. 800NTU	800	800		
	615	Horiba	810035	ORP. 89mV	89mV	87mV		
6/20	620	~~Horiba~~	~~810035~~	Steel Tape	25.00	25.02	U-22	LW
		Hydrolab	Tait #01					
6/20	1615	Horiba	810035	Auto P.H. 4.0	4.00	3.96	U-22	LW
	1620			P.H. 7.0	7.0	6.95		
	1630			D.O. 0%	0.0	0.0		
	1635			Cond 0.718	0.718	0.718		
	1640			Turb	800	795		
6/20	1645	Horiba	810035	ORP	89mV	86mV	U-22	LW

Tait Environmental Management, Inc.
Engineering • Environmental • Compliance

Instrument Calibration Sheet

Project Name:	BOEING, C-6 JUNE BASELINE	Project #:	EM-2727

Date	Time	Instrument Type	Instrument Serial No.	Calibration Method	TAPE / SOLINST		Horiba	Calibrated By
6/21/07	6:20	HORIBA	810035	Auto pH 4.00	4.00	4.00	U-22	LW
	625			pH	7.00	6.98		
	630			D.O %	0.00	0.00		
	635			D.O. SPAN	9.01	9.02		
	640			COND.	0.718	0.718		
	645			TURB.	800	799		
	650	HORIBA	810035	ORP	89mV	88mV	U-22	
6/21	655	HERON	TAIT #01	STEEL TAPE	25.00	25.02	N/A	LW
6/21	1405	HORIBA	810035	Auto	4.00	3.99		
	1410			pH.	7.00	6.97		
	1415			D.O %	0.0	0.0		
	1420			COND.	0.718	0.712		
	1425			TURB.	800	795		
	1430	HORIBA	810035	ORP.	89mV	86mV		

Certificate of Calibration

Equipment/Model	Serial Number Probe	Serial Number Readout	FlowCell
HORIBA-U 22	9272007	810035	ESS-U22-21

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

Calibration Date	Calibration Procedure	Repair & Service DEPT
06/15/2007 12:20 PM	2 POINT CALIBRATION MANUAL & pH 4.00	Technician ABDULRITANI

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

ENVIROSUPPLY & SERVICE, INC.

HORIBA U-22 WATER QUALITY CHECKER
HORIBA U-10 WATER QUALITY CHECKER

INSTRUMENT MODEL U-22 SERIAL NUMBER 810035 9272007

COMPANY NAME DAT CONTACT PERSON Leslie
PHONE NUMBER

RENTAL PERIOD FROM: TO:
RETURN SHIP DECLARED VALUE: $ SHIPPING WEIGHT:

HORIBA U-10 WATER QUALITY CHECKER

☐ READOUT	☐ CARRYING STRAP	☐ Ph READING
☐ PROBE	☐ D.O. SENSOR TOOL	☐ TEMP. READING
☐ INSTRUCTION MANUAL	☐ ESS LABELS	☐ COND. READING
☐ STND. SOLUTION (100-4)	☐ [redacted]	☐ D.O. READING
☐ REFERENCE SOLUTION	☐ FLOW THRU CELL	☐ TURB. READING
☐ CALIBRATION BEAKER	☐	☐
☐ CARRYING CASE	☐	☐

HORIBA U-22 WATER QUALITY CHECKER

☑ READOUT	☑ CARRYING STRAP	☐ Ph READING 4.0
☑ PROBE	☐ D.O. SENSOR TOOL	☐ TEMP. READING 23.2
☑ INSTRUCTION MANUAL	☑ ESS LABELS	☐ COND. READING 0.48
☑ STND. SOLUTION (100-4)	☑ [redacted]	☐ D.O. READING 7.95
☑ REFERENCE SOLUTION	☑ [redacted]	☐ TURB. READING 0.0
☐ CALIBRATION BEAKER	☑ FLOW THRU CELL	☐ ORP READING 205
☑ CARRYING CASE	☐	☐ TDS READING 2.9

INSTRUMENT INSPECTED BY: Abdulla VERIFIED BY:
TODAY'S DATE: 6-15-07 CALIBRATION SOLUTION: AUTO CAL
INSTRUMENT READINGS: SEE ABOVE
COMMENTS:

ENVIROSUPPLY & SERVICE CHECKS EACH INSTRUMENT IN OUR SERVICE DEPARTMENT ACCORDING TO MANUFACTURERS SPECIFICATIONS. SHIPPING AND ENVIRONMENTAL CONDITIONS MAY AFFECT CALIBRATION, ENVIROSUPPLY & SERVICE RECOMMENDS THAT YOU CALIBRATE THE INSTRUMENT TO MANUFACTURES SPECIFICATIONS PRIOR TO USE.

PICKED UP BY : DATE: RETURNED BY: DATE:

SHARDATA/SALES/CKOUTHOR

MATERIAL SAFETY DATA SHEET
HORIBA INSTRUMENTS, INC.
17671 Armstrong Avenue, Irvine, CA 92614
(949) 250-4811

REVISION DATE JANUARY 2005

SECTION I: MATERIAL IDENTIFICATION

IDENTITY: Potassium hydrogen phthalate
P/N 350623, 527033, 696138-1, 9003001600, 100-4

CHEMICAL FORMULA: $C_6H_4(COOK)(COOH)$ ~1% in water

GENERIC NAME: pH 4 Buffer Solution

CHEMICAL FAMILY: Salt solution

OTHER DESIGNATION: pH 4 Standard Solution, Autocal solution, 100-4

IN CASE OF EMERGENCY CONTACT YOUR REGIONAL PLANT MANAGER

SECTION II: HAZARDOUS INGREDIENTS

Irritant: Eyes, nose and throat, skin.

This product contains the following toxic chemical(s) subject to Section 313 Title III reporting requirements (40 CFR Part 372): NONE

SECTION III: PHYSICAL DATA

BOILING POINT ~100C

SPECIFIC GRAVITY (H_2O = 1): 1.636

VAPOR PRESSURE: N/A

PERCENT, VOLATILE BY VOLUME (%): None

SOLUBILITY IN WATER v/v @°C: 1.2% (cool water) CAS #: 877-24-7
APPEARANCE AND ODOR: Colorless liquid

SECTION IV:PHYSICAL DATA

FLASH POINT AND METHOD: N/A

FLAMMABLE LIMITS: None

EXTINGUISHING MEDIA: Determine based on surrounding combustibles.

SPECIAL FIRE FIGHTING PROCEDURES: None

UNUSUAL FIRE AND EXPLOSION HAZARDS: N/A

SECTION V: REACTIVITY DATA

STABILITY: Stable at normal temperature

INCOMPATIBILITY (MATERIALS TO AVOID):	None
HAZARDOUS DECOMPOSITION PRODUCTS:	None
HAZARDOUS POLYMERIZATION:	None

SECTION VI: HEALTH HAZARD DATA

EMERGENCY AND FIRST AID PROCEDURES:

Eyes: Wash eyes with clean water flowing for 10-15 minutes. Call doctor immediately.
Skin: Take off contaminated clothing and wash skin with water.
Inhaled: Move the patient into clear air. Keep patient warm and stable. Loosen clothing and use artificial respiration if necessary. Call doctor immediately.
Swallowed: Give patient plenty of warm water/milk. Induce vomiting. Call doctor immediately. If patient is unconscious, do not give water/milk, but call doctor immediately.

SECTION VII: SPILL OR LEAK PROCEDURES

Highway or railway spills call Chemtrec (800) 424-9300

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:
Collect as much material as possible. The place of leakage should be washed with plenty of water.

WASTE DISPOSAL METHOD:
Dispose as chemical waste.

SECTION VIII: SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (SPECIFY TYPE):	Not normally required.
VENTILATION:	Not normally required.
OTHER PROTECTIVE EQUIPMENT:	Optional - eye mask, gloves and long-sleeve working clothes.

SECTION IX:SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:
After working, wash hands thoroughly.

OTHER PRECAUTIONS: None.

BOE-C6-0187424

MATERIAL SAFETY DATA SHEET
HORIBA INSTRUMENTS, INC.
17671 Armstrong Avenue, Irvine, CA 92614
(949) 250-4811

REVISION DATE JANUARY 2005

IDENTIFICATION

PRODUCT NAME: Horiba pH 7.00 Calibrating Buffer
P/N 696139-1, 527034

CHEMICAL FAMILY: Dilute Phosphate Solution

CHEMICAL FORMULA: Sodium Phosphate, Dibasic, CAS #7558-79-4
Potassium Phosphate, Monobasic, CAS #7778-77-0
Water, CAS #7732-18-5
Preservative

CHEMICAL NAME: Sodium/Potassium Phosphate Dilute Solution

LISTED AS A CARCINOGEN IN: NIP, IARC, OR OSHA 1910(Z):
Not known to be carcinogenic

HAZARD MATERIAL DESCRIPTION: None

PROPER SHIPPING NAME: Laboratory Reagent – N. O. I.

HAZARD ID NO.: None

PHYSICAL DATA

BOILING POINT: 100°C

% VOLATILE: >90%

VAPOR DENSITY: 0.023Kg/M^3

pH: 7.0

SPECIFIC GRAVITY: >1.0

VAPOR PRESSURE: <20 Torr @25°C

EVAPORATION RATE: 1.0

SOLUBILITY in H_2O: 100%

% SOLID BY WEIGHT: <3.0%

MELTING POINT: Approx. 0°C

APPEARANCE: Colorless liquid, odorless

FIRE AND EXPLOSION HAZARD

FLASH POINT: None

EXTINGUISHING MEDIA: Nonflammable

FLAMMABLE LIMITS: LEL: N/A
UEL: N/A

SPECIAL FIRE FIGHTING PROCEDURES: Wear SCBA gear under fire conditions

UNUSUAL FIRE AND EXPLOSION HAZARDS: Not known at present time

HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE: None established

PERMISSABLE EXPOSURE LIMIT: None established

EFFECTS OF OVEREXPOSURE – CONDITIONS TO AVOID:
Irritating to the eyes and skin upon contact. Irritating to the digestive tract upon ingestion.

EMERGENCY AND FIRST AID PROCEDURES:
Seek medical attention for all symptoms of overexposure. Wash all affected areas with copious amounts of water for approximately fifteen minutes. If ingested, do not induce vomiting.

PRIMARY ROUTES OF ENTRY:
Inhalation (OOO)
Skin Contact (XXX)
Other (XXX)

HAZARDOUS INGREDIENTS:
Not known to be hazardous to human health. See overexposure effects.

REACTIVITY DATA

STABILITY: Stable

CONDITIONS TO AVOID: None known

INCOMPATIBILITY (MATERIALS TO AVOID): None known

HAZARDOUS DECOMPOSITION PRODUCTS: None known

HAZARDOUS POLYMERIZATION: Will not occur

CONDITIONS TO AVOID: None known

SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:
Mop up material and place into a proper container for disposal. Wash affected areas with soap and water solution and ventilate area.

WASTE DISPOSAL METHOD:
Dispose according to local, state and federal regulations.

SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: None required

VENTILATION: Local or mechanical are recommended

PROTECTIVE GLOVES: Rubber or plastic

EYE PROTECTION: Goggles

OTHER PROTECTIVE EQUIPMENT: Lab coat or other protective wear

SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:
None known at the present time. Use good safety and hygiene in handling the materials.

BOE-C6-0187426

MATERIAL SAFETY DATA SHEET
HORIBA INSTRUMENTS, INC.
17671 Armstrong Avenue, Irvine, CA 92614
(949) 250-4811

REVISION DATE: JANUARY 2005

SECTION I: MATERIAL IDENTIFICATION

IDENTITY: Conductivity Standard Solution – 5.87 S/m
Part numbers:201045-7, 201046-7

CHEMICAL FORMULA: KCl in deionized water

GENERIC NAME:

OTHER DESIGNATION: Solution for calibration of conductivity sensors

IN CASE OF EMERGENCY CONTACT YOUR REGIONAL PLANT MANAGER

SECTION II: INGREDIENTS

Potassium Chloride	Concentration: 37.2 g/L water	CAS #: 7447-40-7
Deionized Water		CAS #: 7732-18-5

This product contains the following toxic chemical(s) subject to Section 313 Title III reporting requirements (40 CFR Part 372): NONE

SECTION III: PHYSICAL DATA

BOILING POINT: ~100°C

FREEZING POINT: 0°C

VAPOR PRESSURE: N/A

PERCENT VOLATILE ORGANIC CONTENT:NONE

SPECIFIC GRAVITY: ~1.0

SOLUBITY IN WATER: N/A

APPEARANCE AND ODOR: Clear, Colorless, Odorless Solution

SECTION IV:FIRE FIGHTING MEASURES

FLASH POINT: None

FLAMMABLE LIMITS: N/A

EXTINGUISHING MEDIA: N/A

SPECIAL FIRE FIGHTING PROCEDURES: None

UNUSUAL FIRE AND EXPLOSION HAZARDS: None

SECTION V: REACTIVITY DATA

STABILITY: Stable at normal temperature

INCOMPATIBILITY (MATERIALS TO AVOID): None
HAZARDOUS DECOMPOSITION PRODUCTS:None
HAZARDOUS POLYMERIZATION: Not applicable, will not occur

SECTION VI: HEALTH HAZARD DATA

EMERGENCY AND FIRST AID PROCEDURES:

Eyes: Wash with water or normal saline
Skin: Wash with soap and water
Inhaled: Remove to fresh air
Swallowed:Drink several glasses of water to dilute. In all cases contact a physician

SECTION VII: SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Absorb with dry material.

WASTE DISPOSAL METHOD:Dispose of in accordance with all Federal, State and Local Regulations.

SECTION VIII: SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (SPECIFY TYPE): Not required

VENTILATION: Not required

OTHER PROTECTIVE EQUIPMENT:Safety glasses, gloves

SECTION IX:SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: After handling, wash hands thoroughly

OTHER PRECAUTIONS: None

* The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. Horiba Instruments shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.

BOE-C6-0187428

MATERIAL SAFETY DATA SHEET
HORIBA INSTRUMENTS, INC.
17671 Armstrong Avenue, Irvine, CA 92614
(949) 250-4811

REVISION DATE: JANUARY 2005

SECTION I: MATERIAL IDENTIFICATION

IDENTITY: Conductivity Standard Solution – 0.667 S/m
Part numbers: 201045-6, 201046-6

CHEMICAL FORMULA: KCl in deionized water

GENERIC NAME:

OTHER DESIGNATION: Solution for calibration of conductivity sensors

IN CASE OF EMERGENCY CONTACT YOUR REGIONAL PLANT MANAGER

SECTION II: INGREDIENTS

Potassium Chloride	Concentration: 3.73 g/L water	CAS #: 7447-40-7
Deionized Water		CAS #: 7732-18-5

This product contains the following toxic chemical(s) subject to Section 313 Title III reporting requirements (40 CFR Part 372): NONE

SECTION III: PHYSICAL DATA

BOILING POINT: 100°C

FREEZING POINT: 0°C

VAPOR PRESSURE: N/A

PERCENT VOLATILE ORGANIC CONTENT:NONE

SPECIFIC GRAVITY: 1.0

SOLUBITY IN WATER: N/A

APPEARANCE AND ODOR: Clear, Colorless, Odorless Solution

SECTION IV:FIRE FIGHTING MEASURES

FLASH POINT: None

FLAMMABLE LIMITS: N/A

EXTINGUISHING MEDIA: N/A

SPECIAL FIRE FIGHTING PROCEDURES: None

UNUSUAL FIRE AND EXPLOSION HAZARDS: None

SECTION V: REACTIVITY DATA

STABILITY: Stable at normal temperature

INCOMPATIBILITY (MATERIALS TO AVOID): None
HAZARDOUS DECOMPOSITION PRODUCTS:None
HAZARDOUS POLYMERIZATION: Not applicable, will not occur

BOE-C6-0187429

SECTION VI: HEALTH HAZARD DATA

EMERGENCY AND FIRST AID PROCEDURES:

Eyes: Wash with water or normal saline
Skin: Wash with soap and water
Inhaled: Remove to fresh air
Swallowed:Drink several glasses of water to dilute. In all cases contact a physician

SECTION VII: SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Absorb with dry material.

WASTE DISPOSAL METHOD:Dispose of in accordance with all Federal, State and Local Regulations.

SECTION VIII: SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (SPECIFY TYPE): Not required

VENTILATION: Not required

OTHER PROTECTIVE EQUIPMENT:Safety glasses, gloves

SECTION IX:SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: After handling, wash hands thoroughly

OTHER PRECAUTIONS: None

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BOE-C6-0187430

MATERIAL SAFETY DATA SHEET
HORIBA INSTRUMENTS, INC.
17671 Armstrong Avenue, Irvine, CA 92614
(949) 250-4811

REVISION DATE: JANUARY 2005

SECTION I: MATERIAL IDENTIFICATION

IDENTITY: Conductivity Standard Solution – 71.8 mS/m
Part numbers: 201045-5, 201046-5

CHEMICAL FORMULA: KCl in deionized water

GENERIC NAME:

OTHER DESIGNATION: Solution for calibration of conductivity sensors

IN CASE OF EMERGENCY CONTACT YOUR REGIONAL PLANT MANAGER

SECTION II: INGREDIENTS

Potassium Chloride Concentration: 0.373 g/L water CAS #: 7447-40-7
Deionized Water CAS #: 7732-18-5

This product contains the following toxic chemical(s) subject to Section 313 Title III reporting requirements (40 CFR Part 372): NONE

SECTION III: PHYSICAL DATA

BOILING POINT: 100°C FREEZING POINT: 0°C

VAPOR PRESSURE: N/A PERCENT VOLATILE ORGANIC CONTENT:NONE

SPECIFIC GRAVITY: 1.0 SOLUBITY IN WATER: N/A

APPEARANCE AND ODOR: Clear, Colorless, Odorless Solution

SECTION IV:FIRE FIGHTING MEASURES

FLASH POINT: None

FLAMMABLE LIMITS: N/A

EXTINGUISHING MEDIA: N/A

SPECIAL FIRE FIGHTING PROCEDURES: None

UNUSUAL FIRE AND EXPLOSION HAZARDS: None

SECTION V: REACTIVITY DATA

STABILITY: Stable at normal temperature

INCOMPATIBILITY (MATERIALS TO AVOID): None
HAZARDOUS DECOMPOSITION PRODUCTS:None
HAZARDOUS POLYMERIZATION: Not applicable, will not occur

SECTION VI: HEALTH HAZARD DATA

EMERGENCY AND FIRST AID PROCEDURES:

Eyes: Wash with water or normal saline
Skin: Wash with soap and water
Inhaled: Remove to fresh air
Swallowed:Drink several glasses of water to dilute. In all cases contact a physician

SECTION VII: SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Absorb with dry material.

WASTE DISPOSAL METHOD:Dispose of in accordance with all Federal, State and Local Regulations.

SECTION VIII: SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (SPECIFY TYPE): Not required

VENTILATION: Not required

OTHER PROTECTIVE EQUIPMENT:Safety glasses, gloves

SECTION IX:SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: After handling, wash hands thoroughly

OTHER PRECAUTIONS: None

* The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. Horiba Instruments shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.

BOE-C6-0187432

OAKTON® MATERIAL SAFETY DATA SHEET

Section 1. Chemical Product and Company Identification

Catalog Number(s) 00653-00	
Product Identity ZERO OXYGEN SOLUTION	
Manufacturer's Name RICCA CHEMICAL COMPANY	Emergency Telephone Number (24 hr) CHEMTREC®: 800-424-9300
Address (Number, Street, City, State, and ZIP Code) P.O. Box 13090	Telephone Number For Information 817-461-5601
Arlington, Texas 76094	Date Prepared 4-18-2000

Section 2. Composition / Information on Ingredients

Component	CAS Registry #	Percent Concentration	Exposure Limits ACGIH TLV	Exposure Limits OSHA PEL
Sodium Sulfite	7757-83-7	4.5 – 5.5	N/A	N/A
Cobalt Chloride Hexahydrate	7791-13-1	< 0.01	0.02 mg/m^3 (as Co)	0.1 mg/m^3 (Dust as Co)
Water, Deionized	7732-18-5	Balance	N/A	N/A

Section 3. Hazards Identification

☆☆☆

EMERGENCY OVERVIEW

May cause irritation to the eyes, skin and respiratory tract. Contains Cobalt Chloride, a possible carcinogen according to International Agency for Research on Cancer (IARC). Wash areas of contact with water for at least 15 minutes. If ingested, dilute with water and call a physician. Although moderately toxic in large amounts, sulfites can pose risk to some asthmatics producing central nervous system depression, broncho constriction and anaphylaxis.

☆☆☆

POTENTIAL HEALTH EFFECTS:

TARGET ORGANS: eyes, skin, respiratory tract.

EYE CONTACT: May cause irritation, redness, pain, and tearing.

INHALATION: May cause irritation. This solution is not expected to be harmful via inhalation.

SKIN CONTACT: May cause mild irritation.

INGESTION: May cause gastric irritation by the liberation of sulfurous acid. Large doses may result in circulatory disturbances, diarrhea, and central nervous system depression.

CHRONIC EFFECTS / CARCINOGENICITY: Chronic exposure may affect thyroid, heart, lungs and kidneys due to the Cobalt.
IARC – Not classifiable as to carcinogenicity to humans (Sodium Sulfite), Possible carcinogen, limited evidence in humans (Cobalt)
NTP – No
OSHA – No

TERATOLOGY (BIRTH DEFECT) INFORMATION:

Mutation data cited in "Registry of Toxic Effects of Chemical Substances" for Cobalt Chloride and Sodium Sulfite.

REPRODUCTION INFORMATION:

Reproductive effects cited in "Registry of Toxic Effects of Chemical Substances" for Cobalt Chloride.

Section 4. First Aid Measures – In all cases, seek qualified evaluation.

EYE CONTACT: Irrigate immediately with large quantity of water for at least 15 minutes. Call a physician if irritation develops.

INHALATION: Remove to fresh air. Give artificial respiration if necessary.

SKIN CONTACT: Wash areas of contact with soap and water for at least 15 minutes. Call a physician if irritation develops.

INGESTION: Dilute with water or milk. Do not induce vomiting. Call a physician if necessary.

Section 5. Fire Fighting Measures

FLAMMABLE PROPERTIES:

FLASH POINT: N/A METHOD USED: N/A

FLAMMABLE LIMITS

LFL: N/A UFL: N/A

EXTINGUISHING MEDIA: Use any means suitable for extinguishing surrounding fire (water, dry chemical, chemical foam).

FIRE & EXPLOSION HAZARDS: Not considered to be an explosion hazard. May emit irritating and corrosive gases in fire.

FIRE FIGHTING INSTRUCTIONS: Use normal procedures/instructions. Poisonous gases may be produced in fire.

FIRE FIGHTING EQUIPMENT: Use protective clothing and NIOSH-approved self-contained breathing apparatus appropriate for the surrounding fire.

Section 6. Accidental Release Measures

Absorb with suitable material (vermiculite, etc.) and dispose of in accordance with local regulations.

Section 7. Handling and Storage

As with all chemicals, wash hands thoroughly after handling. Avoid contact with eyes and skin. Protect from freezing and physical damage. SAFETY STORAGE CODE: GENERAL

Section 8. Exposure Controls / Personal Protection

ENGINEERING CONTROLS: No specific controls are needed. Normal room ventilation is adequate.

RESPIRATORY PROTECTION: Normal room ventilation is adequate.

SKIN PROTECTION: Chemical resistant gloves, Nitrile Rubber or Neoprene.

EYE PROTECTION: Safety glasses or goggles.

Section 9. Physical and chemical Properties

APPEARANCE:	Clear, colorless liquid	**pH:**	N/A
ODOR:	odorless	**BOILING POINT (°C):**	Approximately 100
SOLUBILITY IN WATER:	infinite	**MELTING POINT (°C):**	Approximately 0
SPECIFIC GRAVITY:	Approximately 1	**VAPOR PRESSURE:**	N/A

Section 10. Stability and Reactivity

CHEMICAL STABILITY: Stable under normal conditions of use and storage. This product absorbs Oxygen from the air.

INCOMPATIBILITY: Strong oxidizing agents, Acids (liberates Sulfur Dioxide), high temperatures.

HAZARDOUS DECOMPOSITION PRODUCTS: Emits toxic and irritating fumes, including Sulfur Oxides, when heated to decomposition.
HAZARDOUS POLYMERIZATION: Will not occur.

Section 11. Toxicological Information

LD50, Oral, Mouse: (Sodium Sulfite) 820 mg/kg, details of toxic effects not reported other than lethal dose value.

Section 12. Ecological Information

ECOTOXICOLOGICAL INFORMATION: No information found.

CHEMICAL FATE INFORMATION: No information found.

Section 13. Disposal Considerations

Whatever cannot be saved for recycling or recovery should be managed in an appropriate and approved waste disposal facility. Always dispose of in accordance with local, state and federal regulations.

Section 14. Transport Information (Not meant to be all inclusive)

D.O.T. SHIPPING NAME:	Not regulated
D.O.T. HAZARD CLASS:	None
U.N. / N.A. NUMBER:	None
PACKING GROUP:	None
D.O.T. LABEL:	None

Section 15. Regulatory Information (Not meant to be all inclusive - selected regulation represented)

OSHA STATUS: This item meets the OSHA Hazard Communication Standard (29 CFR 1910.1200) definition of a hazardous material.

TSCA STATUS: All components of this solution are listed on the TSCA Inventory or are mixtures (hydrates) of items listed on the TSCA Inventory.
CERCLA REPORTABLE QUANTITY: Cobalt Chloride RQ 1 pound
SARA TITLE III:

SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES: No
SECTION 311/312 HAZARDOUS CATEGORIES: Acute, Chronic: Yes Fire, Pressure, Reactivity: No
SECTION 313 TOXIC CHEMICALS: No
RCRA STATUS: No

CALIFORNIA PROPOSITION 65: Not listed

Section 16. Other Information

NFPA Ratings:	**Health: 1**	**Flammability: 0**	**Reactivity: 0**	**Special Notice Key: None**
HMIS® Ratings:	**Health: 1**	**Flammability: 0**	**Reactivity: 0**	**Protective Equipment: B (Protective eyewear, gloves)**

Rev 1, 03-25-2003: Reviewed and approved.
Rev 2, 03-20-2006: Reviewed and approved.

When handled properly by qualified personnel, the product described herein does not present a significant health or safety hazard. Alteration of its characteristics by concentration, evaporation, addition of other substances, or other means may present hazards not specifically addressed herein and which must be evaluated by the user. The information furnished herein is believed to be accurate and represents the best data currently available to us. No warranty, expressed or implied, is made and RICCA CHEMICAL COMPANY assumes no legal responsibility or liability whatsoever resulting from its use.

Material Safety Data Sheet

Turbidity Standards (0 - 800 NTU)

Catalog Numbers: T40000, T4010, T4100, TH1160, TH2160
Company Identification:
Polarchem Corp.
7231-B Garden Grove Blvd.
Garden Grove, CA 92841
For information, call: (714) 894-2985
For CHEMTREC assistance, call: (800) 424-9300

——SUBSTANCE IDENTIFICATION——

PRODUCT IDENTIFICATION: —Turbidity Calibrating Standard—
Trade names/synonyms: Turbidity Standard all levels.
Cercla ratings (scale 0-3): health=0 fire=0 reactivity=0 persistence=0
Nfpa ratings (scale 0-4): health=0 fire=0 reactivity=0

——COMPONENTS AND CONTAMINANTS—

Component: Acrylic Polymer Not Hazardous; percent: <1.0
Component: water CAS# 7732-18-5 percent: >98.
Other contaminants: none

Exposure limits:
No occupational exposure limits established by osha, acgih or niosh.

——PHYSICAL DATA——

Description: Milky white to hazy liquid with a very slight ammonia odor.
Approx. boiling point: 212°F (100°C). Approx. melting point: 32°F (0°C)
Vapor pressure: 14 torr @20°C Evap. Rate: (ether=1) >1
pH: 7.5-9.5 Solubility in water: Dilutable Vapor density: <1 (H_2O)

——FIRE AND EXPLOSION DATA——

Fire and explosion hazard: negligible fire hazard when exposed to heat or flame.
Flash point: not applicable
A media: dry chemical, carbon dioxide, water spray or regular foam. (1990 emergency response guidebook, dot p-5800.5) For larger fires, use water spray, fog or regular foam. (1990 emergency response guidebook, dot p-5800.5)
Move container from fire area if it can be done without risk. Do not scatter spilled material with high-pressure water streams. Dike fire-control water for later disposal. (1990 emergency response guidebook, dot p-5800.5 Pg. 31) Use agents suitable for the type of surrounding fire. Avoid breathing hazardous vapors, stay upwind of the fire.

——TOXICITY——

Polymer emulsion:
Carcinogen status: none.
Local effects: irritant - inhalation, skin, eye.
Acute toxicity level: no data available.
Target effects: no data available.

—HEALTH EFFECTS AND FIRST AID—

NHALATION:
Polymer Emulsion
ACUTE EXPOSURE - MAY CAUSE SLIGHT IRRITATION.
CHRONIC EXPOSURE - REPEATED OR PROLONGED EXPOSURE MAY CAUSE IRRITATION.
FIRST AID - REMOVE FROM EXPOSURE AREA TO FRESH AIR IMMEDIATELY. IF BREATHING HAS STOPPED, PERFORM ARTIFICIAL RESPIRATION. KEEP PERSON WARM AND AT REST. TREAT SYMPTOMATICALLY AND SUPPORTIVELY. GET MEDICAL ATTENTION IMMEDIATELY.

SKIN CONTACT:
Polymer Emulsion
ACUTE EXPOSURE - MAY CAUSE SLIGHT IRRITATION.
CHRONIC EXPOSURE - REPEATED OR PROLONGED EXPOSURE MAY CAUSE DERMATITIS.
FIRST AID - REMOVE CONTAMINATED CLOTHING AND SHOES IMMEDIATELY, WASH AFFECTED AREA WITH SOAP OR MILD DETERGENT AND LARGE AMOUNTS OF WATER UNTIL NO EVIDENCE OF CHEMICAL REMAINS (APPROXIMATELY 15-20 MINUTES). GET MEDICAL ATTENTION IMMEDIATELY.

EYE CONTACT:
Polymer Emulsion
ACUTE EXPOSURE - MAY CAUSE SLIGHT IRRITATION.
CRONIC EXPOSURE-REPEATED OR PROLONGED EXPOSURE MAY CAUSE CONJUNCTIVITIS
FIRST AID - WASH EYES IMMEDIATELY WITH LARGE AMOUNTS OF WATER OR NORMAL SALINE, OCCASIONALLY LIFTING UPPER AND LOWER LIDS UNTIL NO EVIDENCE OF CHEMICAL REMAINS (APPROXIMATELY 15-20 MINUTES). GET MEDICAL ATTENTION IMMEDIATELY.

—REACTIVITY—

Reactivity: stable under normal temperatures and pressures.
Incompatibilities: none known.
Decomposition: none known.
Polymerization: none known.

—STORAGE AND DISPOSAL—

Observe all federal, state and local regulations when storing or disposing of this substance. For assistance, contact the district director of the environmental protection agency.
Storage conditions to avoid: store away from incompatible substances.
Water spills: The California safe drinking water and toxic enforcement act of 1986 (prop 65) prohibits contaminating any known source of drinking water with substances known to cause cancer and/or reproductive toxicity.
Occupational spill: Stop leak if you can do it without risk. For small spills, take up with sand or other absorbent materials and place into clean, dry containers for later disposal.

—PROTECTIVE EQUIPMENT—

When using, wear eye protection to prevent contact.

—ADDITIONAL INFORMATION—

MSDS Creation Date: 11/20/94
Revision #3 Date: 01/14/04

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Polarchem Corp. be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Polarchem Corp. has been advised of the possibility of such damages.

Tait Environmental Management, Inc.

Engineering • Environmental • Compliance

Investigation Derived Waste (IDW) Inventory Record

Project Name: Boeing C-6

Project No.: EM-2727-01

Accumulation Date	Drum/Bin	Identifier	Waste Origination	Contents	Accumulation Amount	Container Location	Inventoried By	Labeled By
6/18/07	WCC-125		C-6	GW	68 GALLONS	COMPOUND	LW	LW
6/18/07	EWB001		C-6	GW	127 GALLONS	COMPOUND	LW	LW
6/18/07	TMW-07		C-6	GW	10.5 GALLONS	COMPOUND	LW	LW
6/19/07	WCC-065		C-6	GW	49 GALLONS	COMPOUND	LW	LW
6/19/07	EWC001		C-6	GW	55 GALLONS	COMPOUND	LW	LW
6/19/07	AW0067UB		C-6	GW	7.0 LITERS	COMPOUND	LW	LW
6/19/07	AW0074UB		C-6	GW	8.12 LITERS	COMPOUND	LW	LW
6/20/07	AW0055UB		C-6	GW	7.0 LITERS	COMPOUND	LW	LW
6/20/07	AW0073C		C-6	GW	6.0 LITERS	COMPOUND	LW	LW
6/20/07	AW0066UB		C-6	GW	6.0 LITERS	COMPOUND	LW	LW
6/20/07	AW0064UB		C-6	GW	9.0 LITERS	COMPOUND	LW	LW
6/20/07	AW0077UB		C-6	GW	7.0 LITERS	COMPOUND	LW	LW
6/21/07	AW0075UB		C-6	GW	6.0 LITERS	COMPOUND	LW	LW
6/21/07	AW0076UB		C-6	GW	6.0 LITERS	COMPOUND	LW	LW
6/21/07	AW0065UB		C-6	GW	6.0 LITERS	COMPOUND	LW	LW
6/21/07	EWB002		C-6	GW	150 GALLONS	COMPOUND	LW	LW

BOE-C6-0187438

Tait Environmental Management, Inc.
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QA/QA Sample Identification Form

Project Name: Boeing C-6 **Project #:** EM. 2727-01

Date	Time	QA/QC Sample Type (Duplicate, Field Blank, Equipment Blank, Split)	Sample ID	Sample Location	Primary Sample Reference	Analytical Method(s)	Organic-Free Water Source and Reference	Name	Comments
6/18/07	N/A	TB-TAIT061807-0001		C-6	N/A	8260B	N/A	CW	
6/18/07	11:00	RB-TAIT061807-0001		C-6	N/A	8260B	N/A	CW	
6/18/07	1045	WCC-12S-WG061807-0001		C-6	N/A	SOS COC	N/A	CW	
6/18/07	1338	EWB001-WG061807-0001		C-6	N/A	SOS COC	N/A	CW	
6/18/07	1505	TMW-07 WG061807-0001		C-6	N/A	SOS COC	N/A	CW	
6/19/07	N/A	TB-TAIT061907-0001		C-6	N/A	8260B	N/A	CW	
6/19/07	0900	RB-TAIT061907-0001		C-6	N/A	8260B	N/A	CW	
6/19/07	0842	WCC-06S-WG061907-0001		C-6	N/A	SOS COC	N/A	CW	
6/19/07	1043	EWC001-WG061907-0001		C-6	N/A	SOS COC	N/A	CW	
6/19/07	1221	AW0074UB-WG061907-0001		C-6	N/A	SOS COC	N/A	CW	
6/19/07	1421	AW0067UB-WG061907-0001		C-6	N/A	SOS COC	N/A	CW	
6/20/07	N/A	TB-TAIT062007-0001		C-6	N/A	8260B	N/A	CW	
6/20/07	0800	RB-TAIT062007-0001		C-6	N/A	8260B	N/A	CW	
6/20/07	0815	FB-TAIT062007-0001		C-6	N/A	8260B	N/A	CW	
6/20/07	0718	AW0055UB-WG062007-0001		C-6	N/A	SOS COC	N/A	CW	

Page __ of __

BOE-C6-0187439

Tait Environmental Management, Inc.
Engineering • Environmental • Compliance

QA/QA Sample Identification Form

Project Name: C-6 BOEING BASELINE & SAMPLING JUNE EVENT

Project #: EM-2727-01

Date	Time	QA/QC Sample Type (Duplicate, Field Blank, Equipment Blank, Split)	Sample ID	Sample Location	Primary Sample Reference	Analytical Method(s)	Organic-Free Water Source and Reference	Name	Comments
6/20/07	0914	AW0073UB	WG062007_0001	C-6	N/A	SEE COC	N/A	LW	
6/20/07	1412	AW0066UB	WG062007_0001	C-6	N/A	SEE COC	N/A	LW	
6/20/07	1059	AW0064UB	WG062007_0001	C-6	N/A	SEE COC	N/A	LW	
6/20/07	1242	AW0077UB	WG062007_0001	C-6	N/A	SEE COC	N/A	LW	
6/21/07	0835	AW0076UB	WG062107_0001	C-6	N/A	SEE COC	N/A	LW	
6/21/07	0734	AW0075UB	WG062107_0001	C-6	N/A	SEE COC	N/A	LW	
6/21/07	1024	AW0065UB	WG062107_0001	C-6	N/A	SEE COC	N/A	LW	
6/21/07	1334	EWB002	WG062107_0001	C-6	N/A	SEE COC	N/A	LW	
6/21/07	N/A	TB	TAIT062107_0001	C-6	N/A	SEE COC	N/A	LW	
6/21/07	1100	RB	TAIT062107_0001	C-6	N/A	SEE COC	N/A	LW	
6/21/07	1404	EWB200	WG062107_0001	C-6	N/A	SEE COC	N/A	LW	

BOE-C6-0187440

GROUNDWATER MONITORING WELL GAUGING DATA
JUNE 2007 FORMER C-5 FACILITY GAUGING EVENT

Well ID	Date of Previous Measurement	Previous Depth to Water	Previous Total Depth	DATE	WELL DIAMETER	Corrected Total Depth	TIME	PID (ppm)	MEASUREMENT POINT	DEPTH TO WATER	SECOND DEPTH TO WATER	TOTAL DEPTH	DEPTH TO WATER	SECOND DEPTH TO WATER	TOTAL DEPTH	PERSONNEL	Comments/Well Condition				
																	Well Bottom	Well Box/Casing	Obstruction	Well Cap & Lock	Comments
AW0056UB	May-07	60.77	89.90	6-13-07	2"		745	2.6	TOC(N)	60.65	60.65	89.30	60.65	60.65	89.30	J.A.	HARD	OK	NONE	NO LOCK	
AW0064UB	May-07	60.45	87.70	6-13-07	2"		800	5.3	TOC(N)	60.40	60.40	87.55	60.40	60.40	87.55	JA.	HARD	OK	NONE	NO LOCK	
AW0065UB	May-07	60.93	89.44	6-13-07	2"		815	0.0	TOC(N)	60.77	60.77	89.40	60.77	60.77	89.40	JA	HARD	OK	NONE	NO LOCK	
AW0066UB	May-07	61.31	90.15	6-13-07	2"		830	40.0	TOC(N)	61.12	61.12	89.80	61.12	61.12	89.80	JA	HARD	OK	NONE	NO LOCK	
AW0067UB	May-07	61.34	88.59	6-13-07	2"		845	18.8	TOC(N)	61.14	61.14	87.40	61.14	61.14	87.40	JA	HARD	OK	NONE	NO LOCK	
AW0074UB	May-07	58.91	88.55	6-13-07	2"		900	8.1	TOC(N)	59.87	59.87	88.05	59.87	59.87	88.05	JA	HARD	OK	NONE	NO LOCK	
AW0075UB	May-07	60.45	88.08	6-13-07	2"		915	0.0	TOC(N)	60.40	60.40	88.40	60.40	60.40	88.40	JA	HARD	OK	NONE	NO LOCK	
AW0076UB	May-07	60.96	88.57	6-13-07	2"		930	1.9	TOC(N)	60.85	60.85	88.45	60.85	60.85	88.45	JA	HARD	OK	NONE	NO LOCK	
AW0077UB	May-07	61.30	84.45	6-13-07	2"		945	0.0	TOC(N)	61.13	61.13	82.70	61.13	61.13	82.70	JA	HARD	OK	NONE	NO LOCK	
AW0073C	May-07	60.72	117.50	6-13-07	2"		1000	3.5	TOC(N)	60.56	60.56	117.47	60.56	60.56	117.47	JA	HARD	OK	NONE	NO LOCK	
TMW_07	May-07	61.46	82.60	6-13-07	2"		1015	3.4	TOC(N)	61.30	61.30	82.55	61.30	61.30	82.55	JA	HARD	OK	NONE	NO LOCK	
WCC_6S	May-07	59.95	84.80	6-13-07	4"		1030	2.3	TOC(N)	59.85	59.85	84.90	59.85	59.85	84.90	JA	HARD	OK	NONE	NO LOCK	
WCC_12S	May-07	58.87	91.77	6-13-07	4"		1045	0.0	TOC(N)	58.57	58.57	91.30	58.57	58.57	91.30	JA	HARD	OK	NONE	NO LOCK	
EWB002	NA	NA	NA	6/21/07	6"		1130	6.7	TOC(N)	60.52	60.52	94.30	60.52	60.52	94.30	JA	HARD	OK	NONE	NO LOCK	NEW WELL
EWB001	May-07	60.25	88.77	6-13-07	6"		1100	0.0	TOC(N)	60.26	60.26	88.75	60.26	60.26	88.75	JA.	HARD	OK	NONE	NO LOCK	
EWC001	May-07	60.00	125.00	6-13-07	4"		1115	1.2	TOC(N)	59.80	59.80	124.70	59.80	59.80	124.70	JA	HARD	OK	NONE	NO LOCK	

BOE-C6-0187441

Appendix H

Appendix H

BASELINE MONITORING LABORATORY REPORTS AND CHAIN-OF CUSTODY DOCUMENTS

CDM

Appendix H
Baseline Monitoring Laboratory Reports and Chain of Custody Documents

CDM
111 Academy Suite 150
Irvine, CA 92617
949 752-5452

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4501 E. Conant Street
Long Beach, CA 90808-1767
(562) 497-6200

October 26, 2007
C6-CRE-T-07-001

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

BOEING

Attention: Information Technology Unit

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

To Whom It May Concern:

Please find enclosed for your review, a copy of the subject document prepared by Camp Dresser & McKee Inc. (CDM) for Boeing Corporate Real Estate (CRE) (formerly Boeing Realty Corporation). This document is being submitted to meet the Reporting Requirements identified in the above-referenced WDR permit.

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. [CWC Sections 13263, 13267, and 13268]

If you have any questions, please contact the undersigned at (562) 497-6153.

Executed on this 26th day of October, 2007 in Long Beach, California.

Sincerely,

Mario Stavale
Boeing Corporate Real Estate

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

Enclosure