Boeing Realty Corporation's
C-6 Facility • Los Angeles, California
GROUNDWATER MONITORING REPORT
3RD QUARTER 1999

APRIL 2000

Prepared for:

BOEING REALTY CORPORATION
4060 Lakewood Boulevard, Sixth Floor
Long Beach, CA 90808

Prepared by:

KENNEDY/JENKS CONSULTANTS
2151 Michelson Drive, Suite 100
Irvine, CA 92612-1311

K/J 994001.00

Boeing Realty Corporation's
C-6 Facility - Los Angeles, California
GROUNDWATER MONITORING REPORT
3RD QUARTER 1999

APRIL 2000

Prepared for:

BOEING REALTY CORPORATION
4060 Lakewood Boulevard, Sixth Floor
Long Beach, CA 90808

Prepared by:

KENNEDY/JENKS CONSULTANTS
2151 Michelson Drive, Suite 100
Irvine, CA 92612-1311

K/J 994001.00

Charles "Rus" Purcell, R.G.
Manager of Geosciences

Peter J. Murphy, P.G.
Senior Geologist

Kennedy/Jenks Consultants
Engineers & Scientists

TABLE OF CONTENTS

SECTION PAGE

1 INTRODUCTION 1

2 QUARTERLY GROUNDWATER MONITORING PROGRAM 1

2.1 Groundwater Sampling Procedures 2

2.2 Field QA/QC Procedures 2

3 FINDINGS 3

3.1 Laboratory Results 3

3.2 Groundwater Conditions 4

4 REFERENCES 5

TABLE OF CONTENTS
(Continued)

LIST OF TABLES

TABLE	TITLE
1	Monitoring Well Construction Details
2	Summary of Organic Compounds and Metals in Groundwater, July 1999.
3	Summary of Groundwater elevation Data, July 1999.

LIST OF FIGURES

FIGURE	TITLE
1	Site Vicinity Map
2	Groundwater Monitoring Well Locations
3	Detected Concentrations of Volatile Organic Compounds in Groundwater, July 1999.
4	Estimated Groundwater Elevation Contour Map, Shallow Zone, July 1999

LIST OF APPENDICES

APPENDIX	TITLE
A	Groundwater Purge and Sample Forms
B	Laboratory Reports and Chain-of-Custody Records

1 INTRODUCTION

The Boeing Realty Corporation (BRC) tasked Kennedy/Jenks Consultants (Kennedy/Jenks) to perform ongoing quarterly groundwater monitoring at the BRC, C-6 facility, located at 1905 Normandie Avenue, Los Angeles, California (Site). The location of the Site is shown on Figure 1. This report summarizes monitoring activities and the results of laboratory analysis of groundwater samples for the third quarter 1999 that were collected in mid-July 1999.

The C6 site was formerly the Douglas Aircraft Company (DAC) and is currently under the processes of relocating manufacturing equipment and tools elsewhere. Our field activities were performed in coordination with redevelopment operations for this site.

2 QUARTERLY GROUNDWATER MONITORING PROGRAM

The third quarter 1999 groundwater sampling event included samples from a total of 28 wells. This is the second period in which samples were collected from all the TMW wells, DAC-P1 and WCC-10S. Static water level depths were measured prior to purging on 12 July 1999 and samples were collected during the period of 13-16 July 1999. Groundwater samples were collected from the following wells:

WCC-3S	WCC-11S	TMW-4	TMW-11
WCC-4S	WCC-12S	TMW-5	TMW-12
WCC-5S	WCC-3D	TMW-6	TMW-13
WCC-6S	DAC-P1	TMW-7	TMW-14
WCC-7S	TMW-1	TMW-8	TMW-15
WCC-9S	TMW-2	TMW-9	TMW-16
WCC-10S	TMW-3	TMW-10	TMW-17

The WCC and DAC monitoring wells were constructed in 1987 as part of a groundwater investigation (Woodward Clyde, 1987). The TMW monitoring wells were constructed by Kennedy /Jenks in 1998 and 1999 as part of the ongoing subsurface investigation (Kennedy/Jenks, 1999 and 2000). The well construction details for the twenty-eight wells listed above are summarized in Table 1. The well locations are shown on Figure 2.

Groundwater samples collected from these wells were analyzed for:

- Volatile Organic Compounds (VOCs) by EPA Method 8260,
- Diesel (extractable petroleum hydrocarbons) and gasoline (volatile petroleum hydrocarbons) by EPA Method 8015 modified,
- Semi Volatile Organic Compounds (SVOCs) by EPA Method 8270,
- Pesticides by EPA Method 8080,
- Total Metals (Title 22) by EPA Methods 6010, 7471 and 7196.

BOE-C6-0045672

2.1 Groundwater Sampling Procedures

Third quarter 1999 groundwater sampling was performed in accordance with standard sampling procedures. Field activities performed at each well were documented on purge and sample forms (Appendix A). Prior to collecting groundwater samples from each well, groundwater was purged using an electrical submersible pump that was temporarily installed in the monitoring well. After lowering the pump to the approximate mid-point of the saturated well screen, approximately three wetted-casing volumes of groundwater were purged from the well until successive measurements of pH, electrical conductivity, and temperature had stabilized to within 10% of each other. Purged groundwater was collected in DOT approved 55-gallon drums pending the results of laboratory analysis of samples. Drums containing purge water were left onsite at a location designated by BRC personnel. .

Following groundwater purging, the flow rate of the submersible pump was reduced to 200 milliliters/minute and samples were collected in two 40-ml vials. The samples were numbered based on the following convention:

Well Number – Water Sample – Event Number

Example: TMW11-GW-2

The samples were placed in a cooler and were shipped to Orange Coast Analytical Services, a State-certified analytical laboratory, for analysis.

2.2 Field QA/QC Procedures

Samples were collected and handled using industry standard QA/QC Procedures. Samples were transported under strict chain-of-custody procedures. Quality control measures performed during this groundwater monitoring event include collection and analysis of the following QA/QC samples:

- Duplicate groundwater (one per quarter),
- Field blank (one per quarter), and
- Trip blank (one per trip, a total of 7 this quarter).

The following discussion describes and how each of the QA/QC samples were collected.

The duplicate groundwater sample was collected from well WCC-3D for the third quarter 1999 sampling event. The same numbers of containers were filled for the duplicate sample as for the primary sample. During collection the containers were filled in an alternating sequence between primary and duplicate. The duplicate sample was numbered WCC3D-GW-2-D. The duplicate sample was analyzed using the same methods as the primary sample.

The submersible pump was decontaminated by steam cleaning between uses. An equipment blank or rinsate sample was collected after one of the decontamination procedures was completed as a check on the effectiveness of the decontamination. The rinsate sample was prepared by pouring Reagent Grade II water, prepared by the analytical laboratory, over the pump and collecting the rinsate in two 40-ml vials. The rinsate sample was named Rinsate Blank and, for the third quarter sampling event, was collected after

BOE-C6-0045673

sampling and decontamination at well TMW-16. The rinsate sample was analyzed using the same methods as the primary groundwater samples

A trip blank was analyzed as a check for the possible cross-contamination of samples during shipping from the site to the laboratory. One trip blank was analyzed for each shipment of samples to the laboratory. The trip blanks consisted of two 40-ml vials that were filled with Reagent Grade II water and sealed by the laboratory. The laboratory identified the trip blank, as "Trip Blank". The vials remained unopened and were kept in the sample cooler during the field activities and sample shipment. The trip blank was submitted to the laboratory with the other samples and analyzed for VOCs using EPA Method 8260.

3 FINDINGS

The following sections present the findings of the July 1999 groundwater monitoring event, including the results of laboratory testing and groundwater conditions at the site.

3.1 Laboratory Results

The concentrations of chemicals detected in the groundwater samples during the third quarter 1999 sampling event are summarized in Table 2. The complete laboratory reports, including chain-of-custody and laboratory QA/QC documentation included in Appendix B.

Comparisons to Maximum Contaminant Levels

The maximum contaminant levels (MCL) established by the California Department of Health Services were exceeded for 13 compounds in one or more wells including:

- Benzene
- Chloroform
- Carbon Tetrachloride
- 1,1-Dichloroethane (1,1-DCA)
- 1,2-Dichloroethane (1,2-DCA)
- 1,1-Dichloroethene (1,1-DCE)
- cis-1,2-Dichloroethene (cis-1,2-DCE)
- trans-1,2-Dichloroethene (trans-1,2-DCE)
- Tetrachloroethene (PCE)
- Toluene
- 1,1,1-Trichlorethane (1,1,1-TCA)
- 1,1,2-Trichlorethane (1,1,2-TCA)
- Trichloroethene (TCE)

Twenty-seven of the 28 wells that were sampled in July 1999 contained at least one of these compounds in excess of an MCL.

Frequency of Occurrence

Petroleum hydrocarbons, various VOCs, selected metals were detected in many of the 28 samples collected during the third quarter 1999 event.

BOE-C6-0045674

The most frequently detected VOCs were TCE (27 samples) and 1,1-DCE (23 samples). Other frequently detected VOCs included the related solvents cis-1,2-DCE (13 samples) and trans-1,2-DCE (8 samples). Less frequently detected were TCA (7 samples) and the related solvents: 1,1,1-TCA (4 samples); 1,1,2-TCA (3 samples); 1,1-DCA (7 samples) and 1,2-DCA (3 samples). Chloroform (14 samples) and carbon tetrachloride (4 samples) were also detected.

Gasoline range hydrocarbons were detected in 18 of the 28 tested wells. Benzene and toluene were each present in a relatively few samples (3 samples each). Ethylbenzene and xylenes were not detected in any of the tested wells.

Barium (26 samples), total chromium and chromium IV (19 samples and 5 samples, respectively), and zinc (28 samples) were frequently detected at the site. Nickel and vanadium were each detected in one sample.

Distribution and Concentration

The spatial distributions of VOCs at the site are illustrated in Figure 3. TCE and 1,1-DCE concentrations in excess of 10,000 µg/l were detected at TMW-2, WCC-3S and DAC-P1. TCE and/or 1,1-DCE were detected at concentrations of 1,000 to 10,000 µg/l in wells WCC-4S, WCC-6S, TMW-3, TMW-4, TMW-5, TMW-7, TMW-8, and TMW-9. The remaining wells contain less than 1,000 µg/l of both TCE and 1,1-DCE.

The highest concentrations of gasoline (130,000 µg/l) benzene (380 µg/l) and toluene (5,400 µg/l) were detected at WCC-3S. Other samples that contained more than 1,000 µg/l of gasoline were collected from WCC-6S, DAC-P1, TMW-3, TMW-4, and TMW-8. In all other samples that contained gasoline, the concentration of gasoline range hydrocarbons was less than 1,000 µg/l.

QA/QC Laboratory Results

Samples analyzed at the laboratory for quality control include one duplicate sample, one rinsate sample, and seven trip blanks. The analytical results for these samples and all laboratory QA/QC results are included in the laboratory report in Appendix B.

During the July 1999 sampling event, the duplicate sample was collected at WCC-3D. The results of the duplicate sample (Sample WCC-3D Duplicate in Table 2) are in reasonable agreement with the primary sample at WCC-3D, indicating that the analytical data are reliable. Analysis of the rinsate sample did not detect any of the contaminants present at the Site, indicating that the pump decontamination procedures are effective. VOCs were not detected in any of the trip blanks; indicating that cross contamination among samples is not occurring in transport.

3.2 Groundwater Conditions

The following sections discuss the physical characteristics of the groundwater during this monitoring event including elevations, gradient, and flow direction. Specific observations regarding field conditions noted at the time of sampling are also provided.

Groundwater Elevations, Gradient and Flow Direction

The depth to water was measured in each of the wells on 12 July 1999 prior to purging and sampling. Static groundwater elevations were calculated based on the measured depths

BOE-C6-0045675

and surveyed reference points at the wells that are summarized on Table 3. Figure 4 shows the groundwater elevations at the wells, and groundwater contours based on these elevations. The data indicate that groundwater elevations ranged from a high of 12.53 feet below mean sea level (-12.53 ft MSL) at WWC-11S to a low of 14.69 feet below MSL (-14.69 ft MSL) at TMW-12. The groundwater contours show a generally southward sloping water table. Locally the direction of groundwater flow ranges from southwest to south to southeast. The average gradient across the site is 0.0007 ft/ft (0.7 ft/100 ft). The gradient between the wells TMW-3 and TMW-17 is approximately 0.003 ft/ft (3 ft/100 ft). The water table gradient shown in Figure 4 implies that the direction of groundwater flow at the Site is generally from north to south. This direction of flow is consistent with flow directions documented during previous quarterly monitoring events. On the average, water levels at the Site declined by approximately 0.2 ft since the previous monitoring event in March of 1999.

Field Observations

Following are selected field observations that were made during purging and sampling the monitoring wells. These observations are based on information recorded on the purge and sample forms (Appendix A) at the time of sampling:

- Soil piles and or construction equipment were present at several well sites, making access difficult at times and delaying fieldwork.
- Good recoveries were noted during purging in all the wells.
- During purging, the groundwater became clear in WCC-9S, WCC-12S, WCC-7S, WCC-4S, WCC-11S, WCC-10S, WCC-5S, WCC-3D WCC-3S, DAC-P1, and light olive to tan in WCC-6S, WCC-9S, and TMW-1through TMW-17.
- Solvent odors were noted around several wellheads while purging, with the strongest odors noted at WCC-3S, WCC-6S and TMW-2. Laboratory results that detected high concentrations of solvents in wells are consistent with this field note.

4 REFERENCES

Woodward Clyde Consultants, 1990, Douglas Aircraft Company Torrance (C-6) Facility, Phase III Groundwater and Soil Investigation Report, March 1990.

Kennedy/Jenks Consultants, 1999, Boeing Realty Corporation's C-6 Facility, Los Angeles California, Installation of Temporary Monitoring Wells in Area of Buildings 1 and 2, October 1999.

Kennedy/Jenks Consultants, 2000, Boeing Realty Corporation's C-6 Facility, Los Angeles California, Installation of Temporary Monitoring Wells TMW-10 Through TMW-17 and 2nd Quarter (March/April 1999) Groundwater Monitoring Results April 2000.

TABLES

TABLE 1
MONITORING WELL CONSTRUCTION DETAILS

BOEING REALTY CORPORATION, C-6 FACILITY
LOS ANGELES, CALIFORNIA
K/J 994001.00

Well	Date Constructed	Well Diameter (Inches)	Total Depth of Borehole (Feet)	Depth of Screened Interval (Feet)		Depth to top of Sand Filter Pack (Feet)	Well Casing Material and Slot Size	Hydrogeologic Unit Screened
				Top	Bottom			
WCC-3S[1]	10/26/87	4	92	69	89	64	Schedule 40 PVC, 0.010-Inch Slots	Shallow
WCC-4S[1]	10/27/87	4	91.5	70.5	90.5	65	Schedule 40 PVC, 0.010-Inch Slots	Shallow
WCC-5S[1]	11/24/87	4	91	60.5	91	58.5	Schedule 40 PVC, 0.010-Inch Slots	Shallow
WCC-6S[2]	9/22/89	4	91	60	90	N/A[3]	Schedule 40 PVC, 0.010-Inch Slots	Shallow
WCC-7S[2]	6/8/89	4	90.5	60	90	54	Schedule 40 PVC, 0.010-Inch Slots	Shallow
WCC-9S[2]	9/21/89	4	91.5	60	90	55	Schedule 40 PVC, 0.010-Inch Slots	Shallow
WCC-10S[2]	6/7/89	4	90.8	60	90	54	Schedule 40 PVC0.010-Inch Slots	Shallow
WCC-11S[2]	N/A	4	N/A	60	90	N/A	Schedule 40 PVC, 0.010-Inch Slots	Shallow
WCC-12S[2]	N/A	4	N/A	60	90	N/A	Schedule 40 PVC, 0.010-Inch Slots	Shallow
WCC-3D[2]	6/27/89	4	140	120	140	114	Schedule 40 PVC, 0.010-Inch Slots	Deeper
DAC-P1[1]	9/25/89	4	N/A	60	90	N/A	Schedule 40 PVC0.010-Inch Slots	Shallow
TMW-1	6/28/98	2	86	61	81	59	Schedule 40 PVC, 0.010-Inch Slots	Shallow
TMW-2	6/28/98	2	87	62	82	57	Schedule 40 PVC, 0.010-Inch Slots	Shallow
TMW-3	7/21/98	2	87	62.5	82.5	60	Schedule 40 PVC, 0.010-Inch Slots	Shallow
TMW-4	6/30/98	2	86	60	80	58	Schedule 40 PVC, 0.010-Inch Slots	Shallow
TMW-5	7/2/98	2	86	61.3	81.3	58.9	Schedule 40 PVC, 0.010-Inch Slots	Shallow
TMW-6	7/1/98	2	86	61.2	81.2	59.1	Schedule 40 PVC, 0.010-Inch Slots	Shallow
TMW-7	6/29/98	2	89.5	64	84	62	Schedule 40 PVC, 0.010-Inch Slots	Shallow
TMW-8	6/29/98	2	89.5	61	81	59	Schedule 40 PVC, 0.010-Inch Slots	Shallow
TMW-9	6/30/98	2	86	61	81	59	Schedule 40 PVC, 0.010-Inch Slots	Shallow
TMW-10	1/28/99	2	85	60.5	80.5	57.6	Schedule 40 PVC, 0.010-Inch Slots	Shallow
TMW-11	2/1/99	2	83	58	78	54.5	Schedule 40 PVC, 0.010-Inch Slots	Shallow
TMW-12	1/27/99	2	88	62	82	59.3	Schedule 40 PVC, 0.010-Inch Slots	Shallow
TMW-13	2/2/99	2	85	60	80	58	Schedule 40 PVC, 0.010-Inch Slots	Shallow
TMW-14	2/3/99	2	90	65	85	63	Schedule 40 PVC, 0.010-Inch Slots	Shallow
TMW-15	2/4/99	2	92	62	87	60	Schedule 40 PVC, 0.010-Inch Slots	Shallow
TMW-16	1/29/99	2	82.5	56.5	76.5	54.5	Schedule 40 PVC, 0.010-Inch Slots	Shallow
TMW-17	5/10/99	2	87	62	82	59	Schedule 40 PVC, 0.010-Inch Slots	Shallow

NOTES:
1. Data from Woodward-Clyde Consultants Phase II Report, May 1988
2. Data from Woodward-Clyde Consultants Phase III Report, March 1990
3. N/A = Not Available

BOE-C6-0045678

TABLE 2
SUMMARY OF ORGANIC COMPOUNDS AND METALS IN GROUNDWATER, JULY 1999

Boeing Realty Corporation, C-6 Facility
Los Angeles, California
K/J 994001.00

Well	Sample Date	EPA 8260 µg/L																EPA 8270 µg/L	EPA 8015m µg/L	EPA 6010 mg/L	EPA 7196 mg/L	EPA 6010 mg/L			
		Detection Limit[1]	Benzene	Carbon Tetrachloride	Chloroform	1,1-DCA	1,2-DCA	1,1-DCE	trans-1,2-DCE	Tetracholorethane	Toluene	1,1,1-TCA	1,1,2-TCA	TCE	cis-1,2-DCE	TCFM	DCFM	Phenol	Volatile Fuel Hydrocarbons	Barium	Chromium (VI)[3]	Chromium (total)	Nickel	Vanadium	Zinc
		Detection Limit[2]																5.0	50	0.010	0.010	0.010	0.010	0.010	0.010
WCC-3S	7/16/99	250	380			780		32,000	1000		54,000	2,700		810	6,600			6.9	130,000	0.26					0.025
WCC-4S	7/14/99	10						2,100	19					1,500	12				240	0.28		0.012			0.013
WCC-5S	7/15/99	0.5						14						2.3						0.24					0.017
WCC-6S	7/16/99	50				94		7,300	130		880	390		3,000	1,000				2,900	0.14					0.017
WCC-7S	7/14/99	1.0						32						120	9.3				64	0.082		0.014			0.013
WCC-9S	7/13/99	0.5			24				12					58	2.2		1.3			0.19					0.025
WCC-10S	7/14/99	1.0						190					1.2	200	1.3				77	0.18		0.012			0.012
WCC-11S	7/14/99	0.5		1.1	2.8			38		3.1				170	1.2				70	0.029		0.011			0.013
WCC-12S	7/13/99	0.5			1.9	20		49		0.63				130	3.0				66	0.10		0.012			0.011
WCC-3D	7/16/99	0.5						4.7			1.7	8.4		8.2	1.8					0.093					0.014
WCC-3D Duplicate	7/16/99	0.5						4.4			1.3	5.7		5.8	1.9					0.094					0.014
DAC-P1	7/16/99	125												16,000					4,700	0.10	0.24	0.29			0.016
TMW-1	7/15/99	2.5						600						340		14			110	0.24	0.042	0.042			0.02
TMW-2	7/16/99	125			280	1,900		43,000	930			2,700		32,000	1,000				11,000	0.38	0.12	0.12			0.040
TMW-3	7/15/99	50						340						7,800					3,200	0.12		0.023			0.11
TMW-4	7/15/99	10				42	23	2,500	64					2,500	77				300			0.017			0.016
TMW-5	7/14/99	50						710						4,300					310	0.055		0.015			0.014
TMW-6	7/15/99	2.5			560			8.6						130					78		0.024	0.024			0.028
TMW-7	7/15/99	13	13		13	38	18	2,100	57					2,500	89				310	0.11		0.016			0.045
TMW-8	7/15/99	13	27		16	52	19	3,500	74				13	3,000	92				1,000	0.088					0.022
TMW-9	7/14/99	5.0						290						1,200					230	0.11	0.024	0.024			0.019
TMW-10	7/13/99	0.5			4.9			0.58		1.3				4.4		0.80	2.3			0.16		0.019			0.024
TMW-11	7/13/99	1.3		1.7	450			1.5		1.7				23						0.39		0.014			0.023
TMW-12	7/13/99	10			2,600			32					780						200	0.29					0.026
TMW-13	7/13/99	0.5		4.5	29			0.6		5.6				120						0.16					0.015
TMW-14	7/13/99	0.5		2.9	4.4					1.8				13						0.17		0.012			0.015
TMW-15	7/13/99	0.5			11			1.50						39						0.085		0.011		0.018	0.026
TMW-16	7/16/99	0.5								0.98				2.7						0.072		0.023	0.010		0.042
TMW-17	7/14/99	0.5			1.6									32						0.028					0.011

Table Notes:
Blank cell indicates constituent result was below the detection limit.
Shaded cell indicates sample was not tested for the given constituent.
1. Detection limits varied between well samples for volatile organics analyses.
2. Dectection limits were consistent between well samples for semivolatile organics, fuel hydrocarbons, and metals analyses.
3. Chromium (VI) analysis was performed only if total Chromium exceeded 0.10 mg/L.
Table shows only compounds that were detected at least once in the groundwater samples.
No detections were reported for total extractable petroleum hydrocarbons analysis (EPA 8015M).
No detections were reported for organochlorinated pesticides analysis (EPA 8080).

Table Key:

BDCM	Bromodichloromethane
CDBM	Chlorodibromomethane
DCA	Dichloroethane
DCE	Dichloroethene
PCE	Tetrachloroethene
TCA	Trichloroethane
TCE	Trichloroethene
TCFM	Trichlorofluoromethane
DCFM	Dichlorofluoromethane

s:\jrylk\boeing\gw-1999\March 1999 Report\Tables\Table3.xls

BOE-C6-0045679

TABLE 3
SUMMARY OF GROUNDWATER ELEVATION DATA, JULY 1999

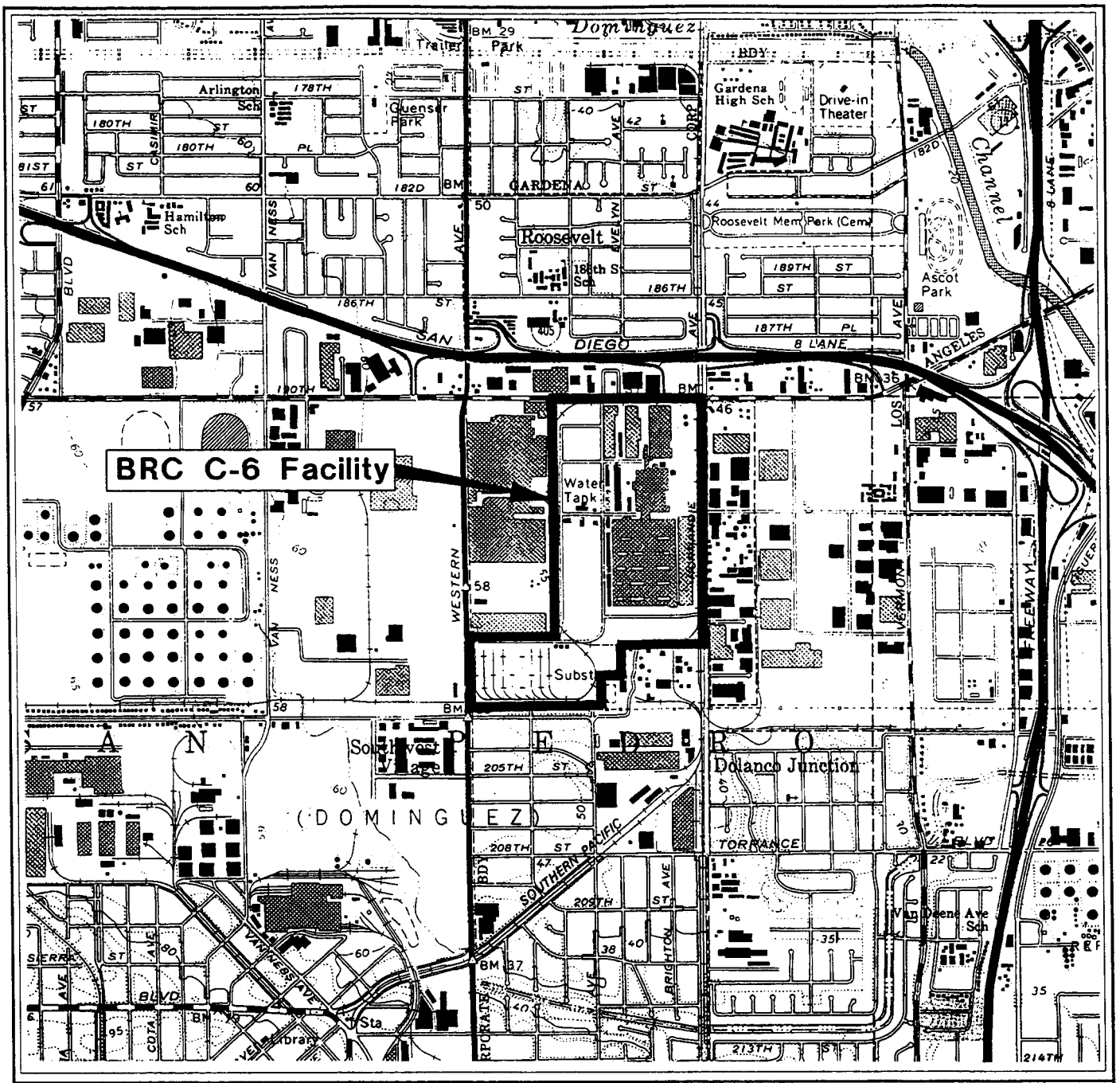
BOEING REALTY CORPORATION, C-6 FACILITY
LOS ANGELES, CALIFORNIA
K/J 994001.00

Well	Reference Point[1] Elevation (Feet Above MSL)	12-16 July, 1999	
		Depth[2]	Elevation
WCC-3S	51.16	64.49	-13.33
WCC-4S	49.65	62.98	-13.33
WCC-5S	48.84	62.09	-13.25
WCC-6S	51.32	64.87	-13.55
WCC-7S	50.23	63.69	-13.46
WCC-9S	46.93	60.48	-13.55
WCC-10S	58.17	70.80	-12.63
WCC-11S	51.37	63.90	-12.53
WCC-12S	46.93	60.50	-13.57
WCC-3D	51.16	64.65	-13.49
DAC-P1	58.85	71.57	-12.72
TMW-1	51.24	64.48	-13.24
TMW-2	51.18	64.48	-13.30
TMW-3	51.07	64.98	-13.91
TMW-4	50.35	64.38	-14.03
TMW-5	50.12	64.45	-14.33
TMW-6	50.13	64.55	-14.42
TMW-7	51.12	64.90	-13.78
TMW-8	51.06	64.71	-13.65
TMW-9	51.21	64.91	-13.70
TMW-10	47.52	61.40	-13.88
TMW-11	47.47	61.97	-14.50
TMW-12	50.85	65.54	-14.69
TMW-13	50.91	65.51	-14.60
TMW-14	58.21	72.67	-14.46
TMW-15	55.26	68.90	-13.64
TMW-16	50.91	63.54	-12.63
TMW-17	55.54	68.70	-13.16

Notes:

1. Reference point is north side, top of well casing
2. Depth in feet below reference point.

FIGURES



Source: Basemap modified from
U.S.G.S. Torrance, California
7.5 Minute Quadrangle
Photorevised 1981

0 2000 4000

Approximate Scale in Feet

N

Kennedy/Jenks Consultants

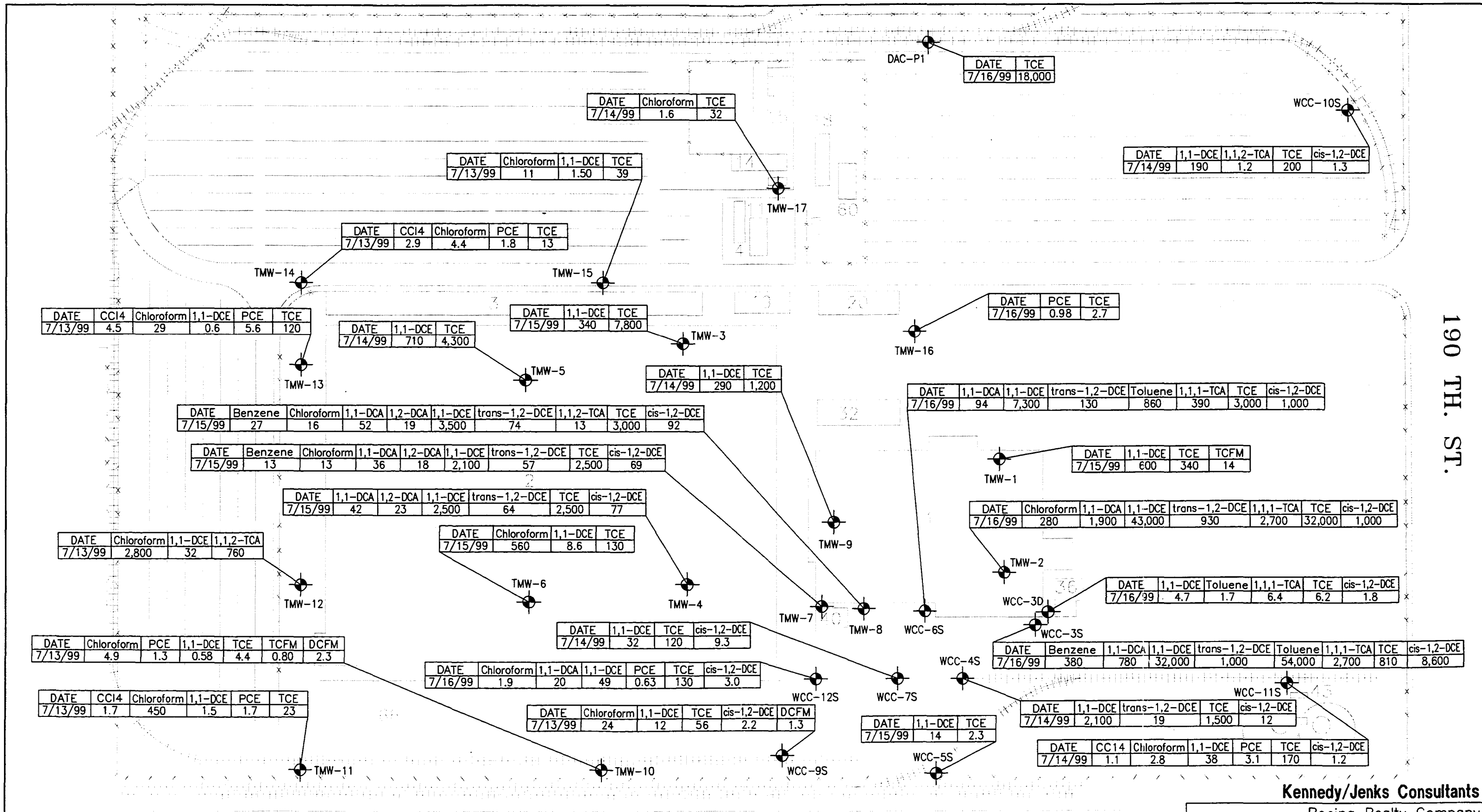
Boeing Realty Company
C6 Facility

Site Location Map

April 2000
K/J 994001.00

Figure 1

4-00-400601.dwg



Kennedy/Jenks Consultants

Boeing Realty Company
C6 Facility

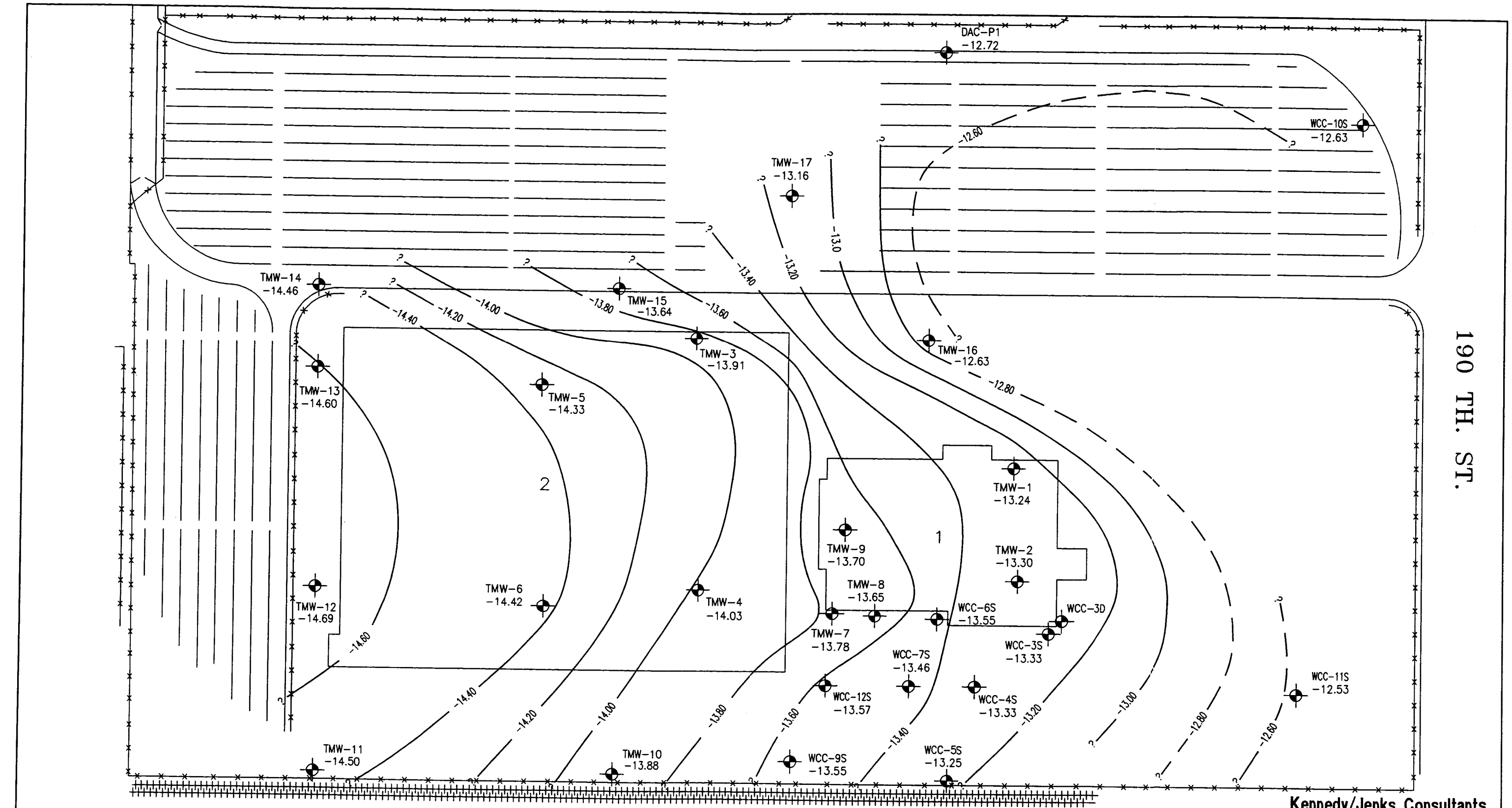
Detected Concentrations of Volatile Organic Compounds in Groundwater July 1999

April 2000
K/J 994001.00

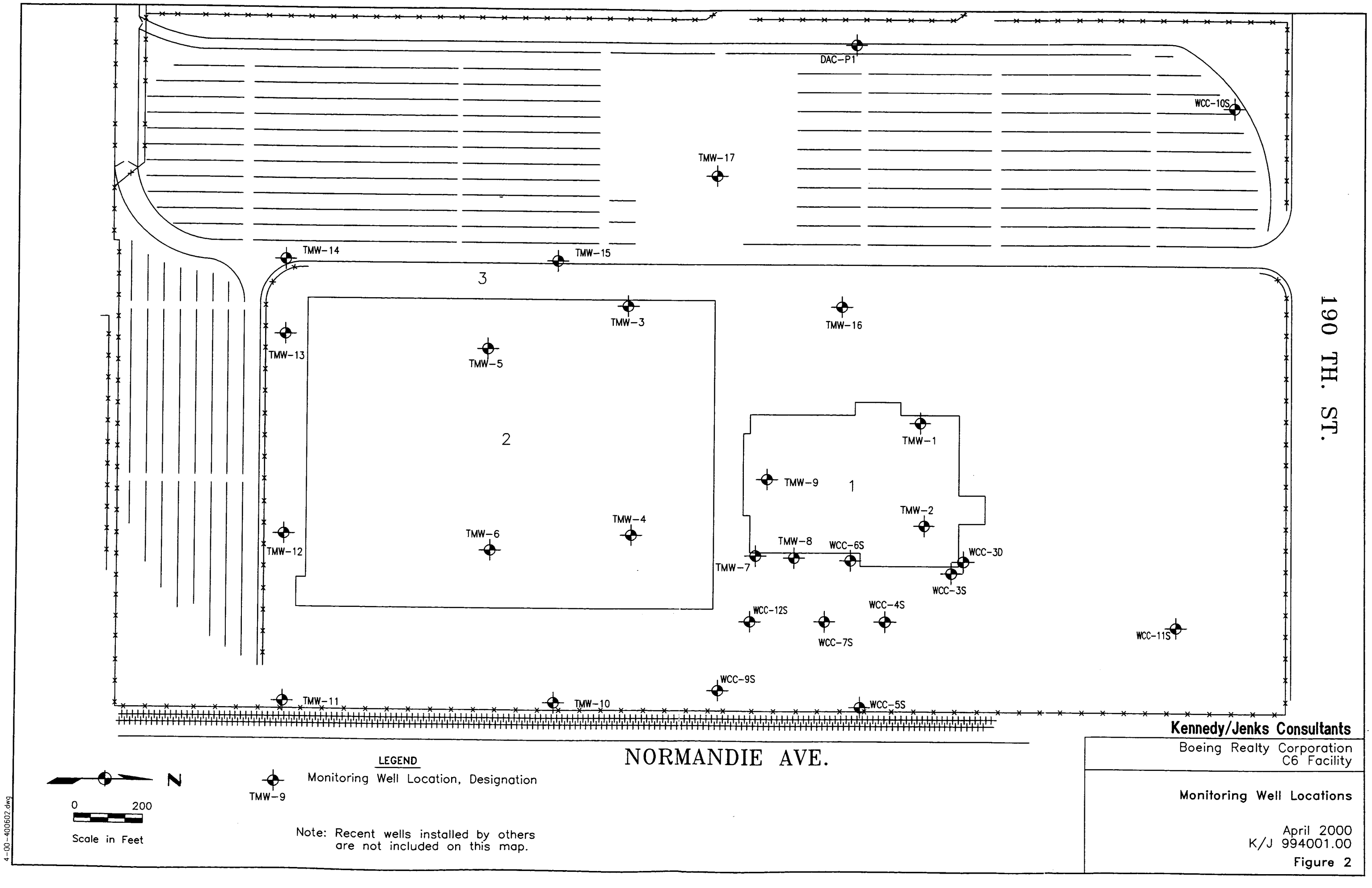
Figure 3

4-00-400603.dwg

BOE-C6-0045683



BOE-C6-0045684



BOE-C6-0045685

APPENDIX A

GROUNDWATER PURGE AND SAMPLE FORMS

Groundwater Purge and Sample Form Date: 7-13-99 **Kennedy/Jenks Consultants**

PROJECT NAME: Boeing C-6 WELL NUMBER: WCC-9S

PROJECT NUMBER: 994001.00 PERSONNEL: Shane Scrimshire

STATIC WATER LEVEL (FT): 60.48 MEASURING POINT DESCRIPTION: Top of Casing

WATER LEVEL MEASUREMENT METHOD: Electric Probe PURGE METHOD: Redi-Flow 2

TIME START PURGE: 1005 PURGE DEPTH (FT) 70'

TIME END PURGE: 1038

TIME SAMPLED: 1045

COMMENTS: Well is standing in a 8' deep trench dug for a sewer main. Well supported by shoring jacks.

WELL VOLUME CALCULATION (FILL IN BEFORE PURGING)	TOTAL DEPTH (FT)	-	DEPTH TO WATER (FT)	=	WATER COLUMN (FT)	X	MULTIPLIER FOR CASING DIAMETER (IN) 2	4	6	=	x 3 = 56 CASING VOLUME (GAL)
	89.35		60.48		28.87		0.16	0.64	1.44		18.5

TIME	1007	1012	1020	1038			
VOLUME PURGED (GAL)	5	20	40	55			
PURGE RATE (GPM)							
TEMPERATURE (°C)	75.8	74.3	74.0	74.0			
pH	7.32	7.49	7.31	7.32			
SPECIFIC CONDUCTIVITY (micromhos/cm) (uncorrected)	1663	1457	1442	1442			
DISSOLVED OXYGEN (mg/L)							
eH(MV)Pt-AgCl ref.							
TURBIDITY/COLOR	Clear	Clear	Clear	Clear			
ODOR	NO	NO	NO	NO			
DEPTH OF PURGE INTAKE (FT)	70'	70'	70'	70'			
DEPTH TO WATER DURING PURGE (FT)							
NUMBER OF CASING VOLUMES REMOVED							
DEWATERED?							

Groundwater Purge and Sample Form Date: 7-13-99 **Kennedy/Jenks Consultants**

PROJECT NAME: Boeing C-6 WELL NUMBER: WCC-9S

PROJECT NUMBER: 994001.00 PERSONNEL: Shane Scrimshire

SAMPLE DATA:

TIME SAMPLED: 1045 COMMENTS:

DEPTH SAMPLED (FT): 70'

SAMPLING EQUIPMENT: Redi-Flow 2

SAMPLE NO.	NO. OF CONTAINERS	CONTAINER TYPE	PRESERVATIVE	FIELD FILTRATION	VOLUME FILLED (ml or L)	TURBIDITY	COLOR	SHIPPED UNDER CHAIN-OF-CUSTODY AT 4°C?	ANALYSIS REQUEST (METHOD)	COMMENTS
WCC9S-GW-2	6	—	HNO3 + HCL	—	—	—	Clear	Yes	See COC	

PURGE WATER DISPOSAL NOTES:

TOTAL DISCHARGE (GAL): 55 COMMENTS:

DISPOSAL METHOD: Drum storage

DRUM DESIGNATION(S)/VOLUME PER (GAL): Used 1 drum

WELL HEAD CONDITIONS CHECKLIST (CIRCLE YES OR NO - IF NO, ADD COMMENTS):

WELL SECURITY DEVICES OK (BOLLARDS, CHRISTY LID, CASING LID AND LOCK)?: YES (NO)

INSIDE OF WELL HEAD AND OUTER CASING DRY?: (YES) NO

WELL CASING OK?: (YES) NO

COMMENTS: Trench has been dug on West side of well, casing and completion are standing approx 8'. Shoring jack is holding well in place.

GENERAL:

WEATHER CONDITIONS: Clear

TEMPERATURE (SPECIFY °C OR °F): 80 °F

PROBLEMS ENCOUNTERED DURING PURGING OR SAMPLING? NO

cc: Project Manager: Rus Purcell
Job File:
Other:

F-43.2 (5-89)

Groundwater Purge and Sample Form Date: 7-13-99 **Kennedy/Jenks Consultants**

PROJECT NAME: Boeing C-6 WELL NUMBER: TMW-12

PROJECT NUMBER: 994001.00 PERSONNEL: Shane Sonimshine

STATIC WATER LEVEL (FT): 65.54 MEASURING POINT DESCRIPTION: Top of Casing

WATER LEVEL MEASUREMENT METHOD: Electric Sounder PURGE METHOD: Redi-Flow 2

TIME START PURGE: 1320 PURGE DEPTH (FT) 75'

TIME END PURGE: 1324

TIME SAMPLED: 1330

COMMENTS:

WELL VOLUME CALCULATION (FILL IN BEFORE PURGING)	TOTAL DEPTH (FT)	-	DEPTH TO WATER (FT)	=	WATER COLUMN (FT)	X	MULTIPLIER FOR CASING DIAMETER (IN) 2	4	6	=	63 = 7.5 CASING VOLUME (GAL)
	81.30		65.54		15.76		0.16	0.64	1.44		2.5

TIME	1321	1322	1324				
VOLUME PURGED (GAL)	2	5	7.5				
PURGE RATE (GPM)							
TEMPERATURE (°C)	77.3	76.5	76.5				
pH	7.43	7.15	7.09				
SPECIFIC CONDUCTIVITY (micromhos/cm) (uncorrected)	1997	1740	1743				
DISSOLVED OXYGEN (mg/L)							
eH(MV)Pt-AgCl ref.							
TURBIDITY/COLOR	olive tan, silty	light tan	clear				
ODOR	NO	NO	NO				
DEPTH OF PURGE INTAKE (FT)	75'	75'	75'				
DEPTH TO WATER DURING PURGE (FT)							
NUMBER OF CASING VOLUMES REMOVED							
DEWATERED?							

Groundwater Purge and Sample Form Date: 7-13-99 **Kennedy/Jenks Consultants**

PROJECT NAME: Boeing C-6 WELL NUMBER: TMW-12

PROJECT NUMBER: 994001.00 PERSONNEL: Shane Scrimshire

SAMPLE DATA:

TIME SAMPLED: 1330 COMMENTS:

DEPTH SAMPLED (FT): 75'

SAMPLING EQUIPMENT: Redi-Flow 2

SAMPLE NO.	NO. OF CONTAINERS	CONTAINER TYPE	PRESERVATIVE	FIELD FILTRATION	VOLUME FILLED (ml or L)	TURBIDITY	COLOR	SHIPPED UNDER CHAIN-OF-CUSTODY AT 4°C?	ANALYSIS REQUEST (METHOD)	COMMENTS
TMW-12 + GW-2	6	—	HNO3 + HCL	—	—	—	Clear	Yes	See COC	

PURGE WATER DISPOSAL NOTES:

TOTAL DISCHARGE (GAL): 7.5 COMMENTS:

DISPOSAL METHOD: Drum storage

DRUM DESIGNATION(S)/VOLUME PER (GAL): —

WELL HEAD CONDITIONS CHECKLIST (CIRCLE YES OR NO - IF NO, ADD COMMENTS):

WELL SECURITY DEVICES OK (BOLLARDS, CHRISTY LID, CASING LID AND LOCK)?: (YES) NO

INSIDE OF WELL HEAD AND OUTER CASING DRY?: (YES) NO

WELL CASING OK?: (YES) NO

COMMENTS:

GENERAL:

WEATHER CONDITIONS: Clear

TEMPERATURE (SPECIFY °C OR °F): 85 °F

PROBLEMS ENCOUNTERED DURING PURGING OR SAMPLING? NO

cc: Project Manager: Rus Purcell
Job File:
Other:

F-43.2 (5-89)

Groundwater Purge and Sample Form Date: 7-13-99 **Kennedy/Jenks Consultants**

PROJECT NAME: Boeing C-6 WELL NUMBER: TMW-11

PROJECT NUMBER: 994001.00 PERSONNEL: Shane Sorinshine

STATIC WATER LEVEL (FT): 61.97 MEASURING POINT DESCRIPTION: Top of Casing

WATER LEVEL MEASUREMENT METHOD: Electric Sounder PURGE METHOD: Redi-Flow 2

TIME START PURGE: 1423 PURGE DEPTH (FT) 75'

TIME END PURGE: 1431

TIME SAMPLED: 1438

COMMENTS:

WELL VOLUME CALCULATION (FILL IN BEFORE PURGING)	TOTAL DEPTH (FT)	-	DEPTH TO WATER (FT)	=	WATER COLUMN (FT)	X	MULTIPLIER FOR CASING DIAMETER (IN) 2	4	6	=	x 3 = 9 CASING VOLUME (GAL)
	78.43		61.97		16.46		0.16	0.64	1.44		2.6

TIME	1425	1428	1429	1431			
VOLUME PURGED (GAL)	3	5	8	11			
PURGE RATE (GPM)							
TEMPERATURE (°C)	76.3	76.5	76.2	76.1			
pH	7.44	7.25	7.21	7.07			
SPECIFIC CONDUCTIVITY (micromhos/cm) (uncorrected)	2190	2150	2190	2270			
DISSOLVED OXYGEN (mg/L)							
eH(MV)Pt-AgCl ref.							
TURBIDITY/COLOR	Olive brown, V. turbid	olive tan turbid	V. slightly turbid	Clear			
ODOR	NO	NO	NO	NO			
DEPTH OF PURGE INTAKE (FT)	75'	75'	75'	75'			
DEPTH TO WATER DURING PURGE (FT)							
NUMBER OF CASING VOLUMES REMOVED							
DEWATERED?							

Groundwater Purge and Sample Form Date: 7-13-99 **Kennedy/Jenks Consultants**

PROJECT NAME: Boeing C-6 WELL NUMBER: TMW-11

PROJECT NUMBER: 994001.00 PERSONNEL: Shane Scrimshire

SAMPLE DATA:

TIME SAMPLED: 1438 COMMENTS:

DEPTH SAMPLED (FT): 75'

SAMPLING EQUIPMENT: Redi-Flow 2

SAMPLE NO.	NO. OF CONTAINERS	CONTAINER TYPE	PRESERVATIVE	FIELD FILTRATION	VOLUME FILLED (ml or L)	TURBIDITY	COLOR	SHIPPED UNDER CHAIN-OF-CUSTODY AT 4°C?	ANALYSIS REQUEST (METHOD)	COMMENTS
TMW11-GW-2	6	HNO3 + HCL	—	—	—	—	Clear	YES	See COC	

PURGE WATER DISPOSAL NOTES:

TOTAL DISCHARGE (GAL): 11 COMMENTS:

DISPOSAL METHOD: Drum storage

DRUM DESIGNATION(S)/VOLUME PER (GAL): —

WELL HEAD CONDITIONS CHECKLIST (CIRCLE YES OR NO - IF NO, ADD COMMENTS):

WELL SECURITY DEVICES OK (BOLLARDS, CHRISTY LID, CASING LID AND LOCK)?: (YES) NO

INSIDE OF WELL HEAD AND OUTER CASING DRY?: (YES) NO

WELL CASING OK?: (YES) NO

COMMENTS:

GENERAL:

WEATHER CONDITIONS: Clear

TEMPERATURE (SPECIFY °C OR °F): 85°F

PROBLEMS ENCOUNTERED DURING PURGING OR SAMPLING? NO

cc: Project Manager: Rus Purcell
Job File:
Other:

Groundwater Purge and Sample Form Date: 7-13-99 **Kennedy/Jenks Consultants**

PROJECT NAME: Boeing C-6 WELL NUMBER: TMW-10

PROJECT NUMBER: 994001.00 PERSONNEL: Shane Scrimshire

STATIC WATER LEVEL (FT): 61.40 MEASURING POINT DESCRIPTION: Top of Casing

WATER LEVEL MEASUREMENT METHOD: Electric Sounder PURGE METHOD: Redi-Flow 2

TIME START PURGE: 1523 PURGE DEPTH (FT) 75'

TIME END PURGE: 1532

TIME SAMPLED: 1540

COMMENTS:

WELL VOLUME CALCULATION (FILL IN BEFORE PURGING)	TOTAL DEPTH (FT)	-	DEPTH TO WATER (FT)	=	WATER COLUMN (FT)	X	MULTIPLIER FOR CASING DIAMETER (IN) 2	4	6	=	x 3 = 8 CASING VOLUME (GAL)
	78.05		61.40		16.65		0.16	0.64	1.44		2.66

TIME	1524	1527	1529	1532			
VOLUME PURGED (GAL)	2.5	6	9	13			
PURGE RATE (GPM)							
TEMPERATURE (°C)	77.1	76.4	75.9	76.6			
pH	7.87	7.50	7.51	7.51			
SPECIFIC CONDUCTIVITY (micromhos/cm) (uncorrected)	1770.	1680.	1760.	1770.			
DISSOLVED OXYGEN (mg/L)							
eH(MV)Pt-AgCl ref.							
TURBIDITY/COLOR	Olive Brown/turbid	light olive tan	→	→			
ODOR	NO	NO	NO	NO			
DEPTH OF PURGE INTAKE (FT)	75'	75'	75'	75'			
DEPTH TO WATER DURING PURGE (FT)							
NUMBER OF CASING VOLUMES REMOVED							
DEWATERED?							

Groundwater Purge and Sample Form Date: 7-13-99 **Kennedy/Jenks Consultants**

PROJECT NAME: Boeing C-6 WELL NUMBER: TMW-10

PROJECT NUMBER: 994001.00 PERSONNEL: Shane Scrimshire

SAMPLE DATA:

TIME SAMPLED: 1540 COMMENTS:

DEPTH SAMPLED (FT): 75'

SAMPLING EQUIPMENT: Redi-Flow 2

SAMPLE NO.	NO. OF CONTAINERS	CONTAINER TYPE	PRESERVATIVE	FIELD FILTRATION	VOLUME FILLED (ml or L)	TURBIDITY	COLOR	SHIPPED UNDER CHAIN-OF-CUSTODY AT 4°C?	ANALYSIS REQUEST (METHOD)	COMMENTS
TMW10-GW-2	6	—	HCL + HNO3	—	—	—	light olive, tan	Yes	See COC	

PURGE WATER DISPOSAL NOTES:

TOTAL DISCHARGE (GAL): 13 COMMENTS:

DISPOSAL METHOD: Drum storage

DRUM DESIGNATION(S)/VOLUME PER (GAL): —

WELL HEAD CONDITIONS CHECKLIST (CIRCLE YES OR NO - IF NO, ADD COMMENTS):

WELL SECURITY DEVICES OK (BOLLARDS, CHRISTY LID, CASING LID AND LOCK)?: (YES) NO

INSIDE OF WELL HEAD AND OUTER CASING DRY?: (YES) NO

WELL CASING OK?: (YES) NO

COMMENTS:

GENERAL:

WEATHER CONDITIONS: Clear

TEMPERATURE (SPECIFY °C OR °F): 80°F

PROBLEMS ENCOUNTERED DURING PURGING OR SAMPLING? NO

cc: Project Manager: Rus Purcell
Job File:
Other:

F-43.2 (5-89)

Groundwater Purge and Sample Form Date: 7-13-99 **Kennedy/Jenks Consultants**

PROJECT NAME: Boeing C-6 WELL NUMBER: TMW-13

PROJECT NUMBER: 994001.00 PERSONNEL: Shane Scrimshire

STATIC WATER LEVEL (FT): 65.51 MEASURING POINT DESCRIPTION: Top of Casing

WATER LEVEL MEASUREMENT METHOD: Electric Sounder PURGE METHOD: Redi-Flow 2

TIME START PURGE: 1706 PURGE DEPTH (FT) 75'

TIME END PURGE: 1714

TIME SAMPLED: 1720

COMMENTS:

WELL VOLUME CALCULATION (FILL IN BEFORE PURGING)	TOTAL DEPTH (FT)	-	DEPTH TO WATER (FT)	=	WATER COLUMN (FT)	X	MULTIPLIER FOR CASING DIAMETER (IN) 2	4	6	=	x3 = 6.6 CASING VOLUME (GAL)
	79.25		65.51		13.75		0.16	0.64	1.44		2.2

TIME	1708	1710	1712	1714			
VOLUME PURGED (GAL)	2.5	5	7.5	9			
PURGE RATE (GPM)							
TEMPERATURE (°C)	76.8	75.4	75.3	75.1			
pH	7.50	7.20	7.14	7.10			
SPECIFIC CONDUCTIVITY (micromhos/cm) (uncorrected)	1670.	1730.	1740.	1720.			
DISSOLVED OXYGEN (mg/L)							
eH(MV)Pt-AgCl ref.							
TURBIDITY/COLOR	Light Brown	light tan	Vi light tan	light Yellow			
ODOR	NO	NO	NO	NO			
DEPTH OF PURGE INTAKE (FT)	75'	75'	75'	75'			
DEPTH TO WATER DURING PURGE (FT)							
NUMBER OF CASING VOLUMES REMOVED							
DEWATERED?							

Groundwater Purge and Sample Form Date: 7-13-99 **Kennedy/Jenks Consultants**

PROJECT NAME: Boeing C-6 WELL NUMBER: TMW-13

PROJECT NUMBER: 994001.00 PERSONNEL: Shane Grimshire

SAMPLE DATA:

TIME SAMPLED: 1720 COMMENTS:

DEPTH SAMPLED (FT): 75'

SAMPLING EQUIPMENT: Red. - Flow 2

SAMPLE NO.	NO. OF CONTAIN-ERS	CON-TAINER TYPE	PRESER-VATIVE	FIELD FILTRA-TION	VOLUME FILLED (ml or L)	TURBIDITY	COLOR	SHIPPED UNDER CHAIN-OF-CUS-TODY AT 4°C?	ANALYSIS REQUEST (METHOD)	COMMENTS
TMW13-GW-2	6	—	HCL + HNO3	—	—	—	light Yellow	Yes	See COC	

PURGE WATER DISPOSAL NOTES:

TOTAL DISCHARGE (GAL): 9 COMMENTS:

DISPOSAL METHOD: Drum Storage

DRUM DESIGNATION(S)/VOLUME PER (GAL): —

WELL HEAD CONDITIONS CHECKLIST (CIRCLE YES OR NO - IF NO, ADD COMMENTS):

WELL SECURITY DEVICES OK (BOLLARDS, CHRISTY LID, CASING LID AND LOCK)?: YES NO

INSIDE OF WELL HEAD AND OUTER CASING DRY?: YES NO

WELL CASING OK?: YES NO

COMMENTS:

GENERAL:

WEATHER CONDITIONS: Clear, Breazy

TEMPERATURE (SPECIFY °C OR °F): 80°F

PROBLEMS ENCOUNTERED DURING PURGING OR SAMPLING? No

cc: Project Manager: Rus Purcell
Job File:
Other:

F-43.2 (5-89)

Groundwater Purge and Sample Form Date: 7-13-99 **Kennedy/Jenks Consultants**

PROJECT NAME: Boeing C-6 WELL NUMBER: TMW-14

PROJECT NUMBER: 994001.00 PERSONNEL: Shane Scrimshire

STATIC WATER LEVEL (FT): 72.67 MEASURING POINT DESCRIPTION: Top of Casing

WATER LEVEL MEASUREMENT METHOD: Electric Sounder PURGE METHOD: Redi-Flow 2

TIME START PURGE: 1816 PURGE DEPTH (FT) 80'

TIME END PURGE: 1825

TIME SAMPLED: 1830

COMMENTS:

WELL VOLUME CALCULATION (FILL IN BEFORE PURGING)	TOTAL DEPTH (FT)	-	DEPTH TO WATER (FT)	=	WATER COLUMN (FT)	X	MULTIPLIER FOR CASING DIAMETER (IN) 2	4	6	=	X 3 = 7.5 CASING VOLUME (GAL)
	88.40		72.67		15.73		0.16	0.64	1.44		2.5

TIME	1819	1822	1825				
VOLUME PURGED (GAL)	2.5	5	8.5				
PURGE RATE (GPM)							
TEMPERATURE (°C)	76.0	75.7	75.6				
pH	7.62	7.24	7.24				
SPECIFIC CONDUCTIVITY (micromhos/cm) (uncorrected)	2460.	2370.	2360.				
DISSOLVED OXYGEN (mg/L)							
eH(MV)Pt-AgCl ref.							
TURBIDITY/COLOR	Light Brown	Light tan	V. light tan				
ODOR	NO	NO	NO				
DEPTH OF PURGE INTAKE (FT)	80'	80'	80'				
DEPTH TO WATER DURING PURGE (FT)	NA.						
NUMBER OF CASING VOLUMES REMOVED							
DEWATERED?							

Groundwater Purge and Sample Form Date: 7-13-99 **Kennedy/Jenks Consultants**

PROJECT NAME: Boeing C-6 WELL NUMBER: TMW-14

PROJECT NUMBER: 994001.00 PERSONNEL: Shane Scrimshire

SAMPLE DATA:

TIME SAMPLED: 1830 COMMENTS:

DEPTH SAMPLED (FT): 80'

SAMPLING EQUIPMENT:

SAMPLE NO.	NO. OF CONTAIN-ERS	CON-TAINER TYPE	PRESER-VATIVE	FIELD FILTRA-TION	VOLUME FILLED (ml or L)	TURBIDITY	COLOR	SHIPPED UNDER CHAIN-OF-CUS-TODY AT 4°C?	ANALYSIS REQUEST (METHOD)	COMMENTS
TMW14-GW-2	6	—	HCL + HNO3	—	—	—	V. light tan	Yes	See COC	

PURGE WATER DISPOSAL NOTES:

TOTAL DISCHARGE (GAL): 8.5 COMMENTS:

DISPOSAL METHOD: Drum Storage

DRUM DESIGNATION(S)/VOLUME PER (GAL): —

WELL HEAD CONDITIONS CHECKLIST (CIRCLE YES OR NO - IF NO, ADD COMMENTS):

WELL SECURITY DEVICES OK (BOLLARDS, CHRISTY LID, CASING LID AND LOCK)?: YES NO

INSIDE OF WELL HEAD AND OUTER CASING DRY?: YES NO

WELL CASING OK?: YES NO

COMMENTS:

GENERAL:

WEATHER CONDITIONS: Clear

TEMPERATURE (SPECIFY °C OR °F): 75°F

PROBLEMS ENCOUNTERED DURING PURGING OR SAMPLING? NO

cc: Project Manager: Rus Purcell
Job File:
Other:

Groundwater Purge and Sample Form Date: 7-13-99 **Kennedy/Jenks Consultants**

PROJECT NAME: Boeing C-6 WELL NUMBER: TMW-15

PROJECT NUMBER: 994001.00 PERSONNEL: Shane Scrimshire

STATIC WATER LEVEL (FT): 65.90 MEASURING POINT DESCRIPTION: Top of Casing

WATER LEVEL MEASUREMENT METHOD: Electric Sounder PURGE METHOD: Redi-Flow 2

TIME START PURGE: 1909 PURGE DEPTH (FT) 80'

TIME END PURGE: 1920

TIME SAMPLED: 1925

COMMENTS:

WELL VOLUME CALCULATION (FILL IN BEFORE PURGING)	TOTAL DEPTH (FT)	-	DEPTH TO WATER (FT)	=	WATER COLUMN (FT)	X	MULTIPLIER FOR CASING DIAMETER (IN) 2	4	6	=	x 3 = 9 CASING VOLUME (GAL)
	88.40		65.90		18.60		0.16	0.64	1.44		3

TIME	1913	1916	1920				
VOLUME PURGED (GAL)	3	6	9				
PURGE RATE (GPM)							
TEMPERATURE (°C)	74.7	75.2	75.2				
pH	7.55	7.64	7.60				
SPECIFIC CONDUCTIVITY (micromhos/cm) (uncorrected)	773.	963.	952.				
DISSOLVED OXYGEN (mg/L)							
eH(MV)Pt-AgCl ref.							
TURBIDITY/COLOR	light brown	light brown	light brown				
ODOR	NO	NO	NO				
DEPTH OF PURGE INTAKE (FT)	80'	80'	80'				
DEPTH TO WATER DURING PURGE (FT)							
NUMBER OF CASING VOLUMES REMOVED							
DEWATERED?							

Groundwater Purge and Sample Form Date: 7-13-99 **Kennedy/Jenks Consultants**

PROJECT NAME: Boeing C-6 WELL NUMBER: TMW-15

PROJECT NUMBER: 994001.00 PERSONNEL: Shane Scrimshire

SAMPLE DATA:

TIME SAMPLED: 1925 COMMENTS:

DEPTH SAMPLED (FT): 80

SAMPLING EQUIPMENT: Redi-Flow 2

SAMPLE NO.	NO. OF CONTAIN-ERS	CON-TAINER TYPE	PRESER-VATIVE	FIELD FILTRA-TION	VOLUME FILLED (ml or L)	TURBIDITY	COLOR	SHIPPED UNDER CHAIN-OF-CUS-TODY AT 4°C?	ANALYSIS REQUEST (METHOD)	COMMENTS
TMW15-GW-2	6	—	HCL + HNO3	—	—	—	light brown	Yes	See COC	

PURGE WATER DISPOSAL NOTES:

TOTAL DISCHARGE (GAL): 9 COMMENTS:

DISPOSAL METHOD: Drum Storage

DRUM DESIGNATION(S)/VOLUME PER (GAL): —

WELL HEAD CONDITIONS CHECKLIST (CIRCLE YES OR NO - IF NO, ADD COMMENTS):

WELL SECURITY DEVICES OK (BOLLARDS, CHRISTY LID, CASING LID AND LOCK)?: YES NO

INSIDE OF WELL HEAD AND OUTER CASING DRY?: YES NO

WELL CASING OK?: YES NO

COMMENTS:

GENERAL:

WEATHER CONDITIONS: 75°F + Clear

TEMPERATURE (SPECIFY °C OR °F): —

PROBLEMS ENCOUNTERED DURING PURGING OR SAMPLING? No

cc: Project Manager: Rus Purcell
Job File:
Other:

Groundwater Purge and Sample Form Date: 7-13-99 **Kennedy/Jenks Consultants**

PROJECT NAME: Boeing C-6 WELL NUMBER: WCC-12S

PROJECT NUMBER: 994001.00 PERSONNEL: Shane Scrimshire

STATIC WATER LEVEL (FT): 60.50 MEASURING POINT DESCRIPTION: Top of Casing

WATER LEVEL MEASUREMENT METHOD: Electric Sounder PURGE METHOD: Redi-Flow 2

TIME START PURGE: 2010 PURGE DEPTH (FT) 70'

TIME END PURGE: 2032

TIME SAMPLED: 2040

COMMENTS:

WELL VOLUME CALCULATION (FILL IN BEFORE PURGING)	TOTAL DEPTH (FT)	-	DEPTH TO WATER (FT)	=	WATER COLUMN (FT)	X	MULTIPLIER FOR CASING DIAMETER (IN) 2	4	6	=	X 3 = 57 CASING VOLUME (GAL)
	90.30		60.50		29.80		0.16	0.64	1.44		19

TIME	2017	2025	2032				
VOLUME PURGED (GAL)	20	40	60				
PURGE RATE (GPM)							
TEMPERATURE (°C)	74.1	74.3	74.3				
pH	7.45	7.36	7.29				
SPECIFIC CONDUCTIVITY (micromhos/cm) (uncorrected)	1371.	1342	1352				
DISSOLVED OXYGEN (mg/L)							
eH(MV)Pt-AgCl ref.							
TURBIDITY/COLOR	Clear	Clear	Clear				
ODOR	NO	NO	NO				
DEPTH OF PURGE INTAKE (FT)	70'	70'	70'				
DEPTH TO WATER DURING PURGE (FT)							
NUMBER OF CASING VOLUMES REMOVED							
DEWATERED?							

Groundwater Purge and Sample Form Date: 7-13-99 **Kennedy/Jenks Consultants**

PROJECT NAME: Boeing C-6 WELL NUMBER: WCC-125

PROJECT NUMBER: 994001.00 PERSONNEL: Shane Scrimshire

SAMPLE DATA:

TIME SAMPLED: 2040 COMMENTS:

DEPTH SAMPLED (FT): 70'

SAMPLING EQUIPMENT: Redi-Flow 2

SAMPLE NO.	NO. OF CONTAIN-ERS	CON-TAINER TYPE	PRESER-VATIVE	FIELD FILTRA-TION	VOLUME FILLED (ml or L)	TURBIDITY	COLOR	SHIPPED UNDER CHAIN-OF-CUS-TODY AT 4°C?	ANALYSIS REQUEST (METHOD)	COMMENTS
WCC125-GW-2	6	—	HCL & HNO3	—	—	—	Clear	Yes	See COC	

PURGE WATER DISPOSAL NOTES:

TOTAL DISCHARGE (GAL): 60 COMMENTS:

DISPOSAL METHOD: Drum Storage

DRUM DESIGNATION(S)/VOLUME PER (GAL): —

WELL HEAD CONDITIONS CHECKLIST (CIRCLE YES OR NO - IF NO, ADD COMMENTS):

WELL SECURITY DEVICES OK (BOLLARDS, CHRISTY LID, CASING LID AND LOCK)?: (YES) NO

INSIDE OF WELL HEAD AND OUTER CASING DRY?: (YES) NO

WELL CASING OK?: (YES) NO

COMMENTS:

GENERAL:

WEATHER CONDITIONS: Clear

TEMPERATURE (SPECIFY °C OR °F): 70°F

PROBLEMS ENCOUNTERED DURING PURGING OR SAMPLING? NO

cc: Project Manager: Rus Purcell
Job File:
Other:

Groundwater Purge and Sample Form Date: 7-14-99 **Kennedy/Jenks Consultants**

PROJECT NAME: Boeing C-6 WELL NUMBER: WCC-75

PROJECT NUMBER: 994001.00 PERSONNEL: Shane Scrimshire

STATIC WATER LEVEL (FT): 63.69 MEASURING POINT DESCRIPTION: Top of Casing

WATER LEVEL MEASUREMENT METHOD: Electric sounder PURGE METHOD: Redi-Flow 2

TIME START PURGE: 0818 PURGE DEPTH (FT) 75'

TIME END PURGE: 0835

TIME SAMPLED: 0840

COMMENTS:

WELL VOLUME CALCULATION (FILL IN BEFORE PURGING)	TOTAL DEPTH (FT)	-	DEPTH TO WATER (FT)	=	WATER COLUMN (FT)	X	MULTIPLIER FOR CASING DIAMETER (IN) 2	4	6	=	x 3 = 51 CASING VOLUME (GAL)
	90.50		63.69		26.81		0.16	0.64	1.44		17

TIME	824	829	835				
VOLUME PURGED (GAL)	15	30	52				
PURGE RATE (GPM)							
TEMPERATURE (°C)	73.6	73.6	73.5				
pH	7.90	7.48	7.48				
SPECIFIC CONDUCTIVITY (micromhos/cm) (uncorrected)	2020.	1840.	1638.				
DISSOLVED OXYGEN (mg/L)							
eH(MV)Pt-AgCl ref.							
TURBIDITY/COLOR	Clear	Clear	Clear				
ODOR	NO	NO	NO				
DEPTH OF PURGE INTAKE (FT)	75'	75'	75'				
DEPTH TO WATER DURING PURGE (FT)							
NUMBER OF CASING VOLUMES REMOVED							
DEWATERED?							

Groundwater Purge and Sample Form Date: 7-14-99 **Kennedy/Jenks Consultants**

PROJECT NAME: Boeing C-6 WELL NUMBER: WCC-75

PROJECT NUMBER: 994001.00 PERSONNEL: Shane Scrimshire

SAMPLE DATA:

TIME SAMPLED: 0840 COMMENTS:

DEPTH SAMPLED (FT): 75'

SAMPLING EQUIPMENT: Redi-Flow 2

SAMPLE NO.	NO. OF CONTAIN-ERS	CON-TAINER TYPE	PRESER-VATIVE	FIELD FILTRA-TION	VOLUME FILLED (ml or L)	TURBIDITY	COLOR	SHIPPED UNDER CHAIN-OF-CUS-TODY AT 4°C?	ANALYSIS REQUEST (METHOD)	COMMENTS
WCC75-GW-2	6	—	HCL + HNO3	—	—	—	Clear	Yes	See COC	

PURGE WATER DISPOSAL NOTES:

TOTAL DISCHARGE (GAL): 52 COMMENTS:

DISPOSAL METHOD: Drum Storage

DRUM DESIGNATION(S)/VOLUME PER (GAL): —

WELL HEAD CONDITIONS CHECKLIST (CIRCLE YES OR NO - IF NO, ADD COMMENTS):

WELL SECURITY DEVICES OK (BOLLARDS, CHRISTY LID, CASING LID AND LOCK)?: YES NO

INSIDE OF WELL HEAD AND OUTER CASING DRY?: YES NO

WELL CASING OK?: YES NO

COMMENTS: Lock has been changed, my key does not work + cap does not seal.

GENERAL:

WEATHER CONDITIONS: Clear

TEMPERATURE (SPECIFY °C OR °F): 75°F

PROBLEMS ENCOUNTERED DURING PURGING OR SAMPLING? NO

cc: Project Manager: Rus Purcell
Job File:
Other:

Groundwater Purge and Sample Form Date: 7-14-99 **Kennedy/Jenks Consultants**

PROJECT NAME: Boeing C-6 WELL NUMBER: WCC-45

PROJECT NUMBER: 994001.00 PERSONNEL: Shane Scrimshire

STATIC WATER LEVEL (FT): 62.98 MEASURING POINT DESCRIPTION: Top of Casing

WATER LEVEL MEASUREMENT METHOD: Electric Sounder PURGE METHOD: Redi-Flow 2

TIME START PURGE: 0917 PURGE DEPTH (FT) 70'

TIME END PURGE: 0938

TIME SAMPLED: 0945

COMMENTS:

WELL VOLUME CALCULATION (FILL IN BEFORE PURGING)	TOTAL DEPTH (FT)	-	DEPTH TO WATER (FT)	=	WATER COLUMN (FT)	X	MULTIPLIER FOR CASING DIAMETER (IN) 2	4	6	=	x 3 = 51 CASING VOLUME (GAL)
	89.65		62.98		26.67		0.16	0.64	1.44		17

TIME	0919	0922	0928	0934	0938		
VOLUME PURGED (GAL)	5	17	35	52	65		
PURGE RATE (GPM)							
TEMPERATURE (°C)	74.2	~~77~~ 74.5	74.6	74.6	74.8		
pH	7.05	6.97	6.82	6.70	6.67		
SPECIFIC CONDUCTIVITY (micromhos/cm) (uncorrected)	1911.	1911.	1833	1773.	1790		
DISSOLVED OXYGEN (mg/L)							
eH(MV)Pt-AgCl ref.							
TURBIDITY/COLOR	Clear	Clear	Clear	Clear	Clear		
ODOR	NO	NO	NO	NO	NO		
DEPTH OF PURGE INTAKE (FT)	70'	70'	70'	70'	70'		
DEPTH TO WATER DURING PURGE (FT)							
NUMBER OF CASING VOLUMES REMOVED							
DEWATERED?							

Groundwater Purge and Sample Form Date: 7-14-99 **Kennedy/Jenks Consultants**

PROJECT NAME: Boeing C-6 WELL NUMBER: WCC-4S

PROJECT NUMBER: 994001.00 PERSONNEL: Shane Scrimshire

SAMPLE DATA:

TIME SAMPLED: 0917 COMMENTS:

DEPTH SAMPLED (FT): 70'

SAMPLING EQUIPMENT: Redi-Flow 2

SAMPLE NO.	NO. OF CONTAINERS	CONTAINER TYPE	PRESERVATIVE	FIELD FILTRATION	VOLUME FILLED (ml or L)	TURBIDITY	COLOR	SHIPPED UNDER CHAIN-OF-CUSTODY AT 4°C?	ANALYSIS REQUEST (METHOD)	COMMENTS
WCC4S-GW-2	6	—	HCL + HNO3	—	—	—	Clear	Yes	See COC	

PURGE WATER DISPOSAL NOTES:

TOTAL DISCHARGE (GAL): 65 COMMENTS:

DISPOSAL METHOD: Drum storage

DRUM DESIGNATION(S)/VOLUME PER (GAL):

WELL HEAD CONDITIONS CHECKLIST (CIRCLE YES OR NO - IF NO, ADD COMMENTS):

WELL SECURITY DEVICES OK (BOLLARDS, CHRISTY LID, CASING LID AND LOCK)?: YES NO

INSIDE OF WELL HEAD AND OUTER CASING DRY?: NO

WELL CASING OK?: YES NO

COMMENTS: Key does not fit lock, plug has been over-expanded + does ~~do~~ not seal. Box is wet, surface water has been entering well.

GENERAL:

WEATHER CONDITIONS: Clear

TEMPERATURE (SPECIFY °C OR °F): 78°F

PROBLEMS ENCOUNTERED DURING PURGING OR SAMPLING? NO

cc: Project Manager: Rus Purcell
Job File:
Other:

F-43.2 (5-89)

Groundwater Purge and Sample Form Date: 7-14-99 **Kennedy/Jenks Consultants**

PROJECT NAME: Boeing C-6 WELL NUMBER: WCC-11S

PROJECT NUMBER: 994001.00 PERSONNEL: Shane Sorimshine

STATIC WATER LEVEL (FT): 63.90 MEASURING POINT DESCRIPTION: Top of Casing

WATER LEVEL MEASUREMENT METHOD: Electric Sounder PURGE METHOD: Redi-Flow 2

TIME START PURGE: 1055 PURGE DEPTH (FT) 70'

TIME END PURGE: 1116

TIME SAMPLED: 1120

COMMENTS:

WELL VOLUME CALCULATION (FILL IN BEFORE PURGING)	TOTAL DEPTH (FT)	-	DEPTH TO WATER (FT)	=	WATER COLUMN (FT)	X	MULTIPLIER FOR CASING DIAMETER (IN) 2	4	6	=	x 3 = 52 CASING VOLUME (GAL)
	90.95		63.90		27.05		0.16	0.64	1.44		17.3

TIME	1055	1101	1109	1116			
VOLUME PURGED (GAL)	5	20	35	55			
PURGE RATE (GPM)							
TEMPERATURE (°C)	81.1	75.8	74.5	75.3			
pH	7.24	7.21	7.44	7.29			
SPECIFIC CONDUCTIVITY (micromhos/cm) (uncorrected)	1357.	1542	1552.	1543			
DISSOLVED OXYGEN (mg/L)							
eH(MV)Pt-AgCl ref.							
TURBIDITY/COLOR	Clear	Clear	Clear	Clear			
ODOR	NO	NO	NO	NO			
DEPTH OF PURGE INTAKE (FT)	70'	70'	70'	70'			
DEPTH TO WATER DURING PURGE (FT)							
NUMBER OF CASING VOLUMES REMOVED							
DEWATERED?							

Groundwater Purge and Sample Form Date: 7-14-99 **Kennedy/Jenks Consultants**

PROJECT NAME: Boeing C-6 WELL NUMBER: WCC-11S

PROJECT NUMBER: 994001.00 PERSONNEL: Shane Scrimshire

SAMPLE DATA:

TIME SAMPLED: 1120 COMMENTS:

DEPTH SAMPLED (FT): 70'

SAMPLING EQUIPMENT: Red. - Flow 2

SAMPLE NO.	NO. OF CONTAINERS	CONTAINER TYPE	PRESERVATIVE	FIELD FILTRATION	VOLUME FILLED (ml or L)	TURBIDITY	COLOR	SHIPPED UNDER CHAIN-OF-CUSTODY AT 4°C?	ANALYSIS REQUEST (METHOD)	COMMENTS
WCC11S-GW-2	6	—	HCL + HNO3	—	—	—	Clear	Yes	See COC	

PURGE WATER DISPOSAL NOTES:

TOTAL DISCHARGE (GAL): 55 COMMENTS:

DISPOSAL METHOD: Drum Storage

DRUM DESIGNATION(S)/VOLUME PER (GAL): —

WELL HEAD CONDITIONS CHECKLIST (CIRCLE YES OR NO - IF NO, ADD COMMENTS):

WELL SECURITY DEVICES OK (BOLLARDS, CHRISTY LID, CASING LID AND LOCK)?: YES NO

INSIDE OF WELL HEAD AND OUTER CASING DRY?: YES NO

WELL CASING OK?: YES NO

COMMENTS:

GENERAL:

WEATHER CONDITIONS: Clear

TEMPERATURE (SPECIFY °C OR °F): 78°F

PROBLEMS ENCOUNTERED DURING PURGING OR SAMPLING? No

cc: Project Manager: Rus Purcell
Job File:
Other:

F-43.2 (5-89)

Groundwater Purge and Sample Form Date: 7-14-99 **Kennedy/Jenks Consultants**

PROJECT NAME: Boeing C-6 WELL NUMBER: WCC-10 S

PROJECT NUMBER: 994001.00 PERSONNEL: Shane Scrimshire

STATIC WATER LEVEL (FT): 70.80 MEASURING POINT DESCRIPTION: Top of Casing

WATER LEVEL MEASUREMENT METHOD: Electric Sounder PURGE METHOD: Redi-Flow 2

TIME START PURGE: 1226 PURGE DEPTH (FT) 80'

TIME END PURGE: 1250

TIME SAMPLED: 1255

COMMENTS:

WELL VOLUME CALCULATION (FILL IN BEFORE PURGING)	TOTAL DEPTH (FT)	-	DEPTH TO WATER (FT)	=	WATER COLUMN (FT)	X	MULTIPLIER FOR CASING DIAMETER (IN) 2	4	6	=	x 3 = 51 CASING VOLUME (GAL)
	96.45		70.80		25.65		0.16	0.64	1.44		17

TIME	1229	1236	1243	1250			
VOLUME PURGED (GAL)	5	18	35	52			
PURGE RATE (GPM)	77.						
TEMPERATURE (°C)	77.9	74.0	73.6	73.9			
pH	7.51	7.56	7.43	7.36			
SPECIFIC CONDUCTIVITY (micromhos/cm) (uncorrected)	1056	1055.	1051.	1052.			
DISSOLVED OXYGEN (mg/L)							
eH(MV)Pt-AgCl ref.							
TURBIDITY/COLOR	Clear	Clear	Clear	Clear			
ODOR	NO	NO	NO	NO			
DEPTH OF PURGE INTAKE (FT)	80'	80'	80'	80'			
DEPTH TO WATER DURING PURGE (FT)							
NUMBER OF CASING VOLUMES REMOVED							
DEWATERED?							

Groundwater Purge and Sample Form Date: 7-14-99 **Kennedy/Jenks Consultants**

PROJECT NAME: Boeing C-6 WELL NUMBER: WCC-10S

PROJECT NUMBER: 994001.00 PERSONNEL: Shane Scrimshire

SAMPLE DATA:

TIME SAMPLED: 1255 COMMENTS:

DEPTH SAMPLED (FT): 80'

SAMPLING EQUIPMENT: Redi-Flow 2

SAMPLE NO.	NO. OF CONTAINERS	CONTAINER TYPE	PRESERVATIVE	FIELD FILTRATION	VOLUME FILLED (ml or L)	TURBIDITY	COLOR	SHIPPED UNDER CHAIN-OF-CUSTODY AT 4°C?	ANALYSIS REQUEST (METHOD)	COMMENTS
WCC10S-GW-2	6	—	HCL + HNO3	—	—	—	Clear	Yes	See COC	

PURGE WATER DISPOSAL NOTES:

TOTAL DISCHARGE (GAL): 52 COMMENTS:

DISPOSAL METHOD: Drum Storage

DRUM DESIGNATION(S)/VOLUME PER (GAL):

WELL HEAD CONDITIONS CHECKLIST (CIRCLE YES OR NO - IF NO, ADD COMMENTS):

WELL SECURITY DEVICES OK (BOLLARDS, CHRISTY LID, CASING LID AND LOCK)?: (YES) NO

INSIDE OF WELL HEAD AND OUTER CASING DRY?: (YES) NO

WELL CASING OK?: (YES) NO

COMMENTS: Well monument is standing in a hole, Had to stand on a drum to work at well.

GENERAL:

WEATHER CONDITIONS: Clear

TEMPERATURE (SPECIFY °C OR °F): 80°F

PROBLEMS ENCOUNTERED DURING PURGING OR SAMPLING? NO

cc: Project Manager: Rus Purcell
Job File:
Other:

Groundwater Purge and Sample Form Date: 7-14-99 **Kennedy/Jenks Consultants**

PROJECT NAME: Boeing C-6 WELL NUMBER: TMW-17

PROJECT NUMBER: 994001.00 PERSONNEL: Shane Scrimshire

STATIC WATER LEVEL (FT): 68.70 MEASURING POINT DESCRIPTION: Top of Casing

WATER LEVEL MEASUREMENT METHOD: Electric Probe PURGE METHOD: Redi-Flow 2

TIME START PURGE: 1348 PURGE DEPTH (FT) 75'

TIME END PURGE: 1359

TIME SAMPLED: 1405

COMMENTS:

WELL VOLUME CALCULATION (FILL IN BEFORE PURGING)	TOTAL DEPTH (FT)	-	DEPTH TO WATER (FT)	=	WATER COLUMN (FT)	X	MULTIPLIER FOR CASING DIAMETER (IN) 2	4	6	=	CASING VOLUME (GAL)
	84.60		68.70		15.90		0.16	0.64	1.44		2.54

TIME	1352	1355	1359				
VOLUME PURGED (GAL)	2	6	10				
PURGE RATE (GPM)							
TEMPERATURE (°C)	74.9	74.4	73.9				
pH	7.48	7.52	7.52				
SPECIFIC CONDUCTIVITY (micromhos/cm) (uncorrected)	1211.	1252.	1253.				
DISSOLVED OXYGEN (mg/L)							
eH(MV)Pt-AgCl ref.							
TURBIDITY/COLOR	light tan	v. light tan, olive	v.v. light tan, olive				
ODOR	No	No	No				
DEPTH OF PURGE INTAKE (FT)	75'	75'	75'				
DEPTH TO WATER DURING PURGE (FT)							
NUMBER OF CASING VOLUMES REMOVED							
DEWATERED?							

Groundwater Purge and Sample Form Date: 7-14-99 **Kennedy/Jenks Consultants**

PROJECT NAME: Boeing C-6 WELL NUMBER: TMW-17

PROJECT NUMBER: 994001.00 PERSONNEL: Shane Scrimshire

SAMPLE DATA:

TIME SAMPLED: 1405 COMMENTS:

DEPTH SAMPLED (FT): 75'

SAMPLING EQUIPMENT: Redi-Flow 2

SAMPLE NO.	NO. OF CONTAINERS	CONTAINER TYPE	PRESERVATIVE	FIELD FILTRATION	VOLUME FILLED (ml or L)	TURBIDITY	COLOR	SHIPPED UNDER CHAIN-OF-CUSTODY AT 4°C?	ANALYSIS REQUEST (METHOD)	COMMENTS
TMW17-GW-2	6	—	HCL + HNO3	—	—	—	v.v light olive, tan	Yes	See COC	

PURGE WATER DISPOSAL NOTES:

TOTAL DISCHARGE (GAL): 10 COMMENTS:

DISPOSAL METHOD: Drum storage

DRUM DESIGNATION(S)/VOLUME PER (GAL): —

WELL HEAD CONDITIONS CHECKLIST (CIRCLE YES OR NO - IF NO, ADD COMMENTS):

WELL SECURITY DEVICES OK (BOLLARDS, CHRISTY LID, CASING LID AND LOCK)?: YES NO

INSIDE OF WELL HEAD AND OUTER CASING DRY?: YES NO

WELL CASING OK?: YES NO

COMMENTS:

GENERAL:

WEATHER CONDITIONS: Clear

TEMPERATURE (SPECIFY °C OR °F): 80°F

PROBLEMS ENCOUNTERED DURING PURGING OR SAMPLING? NO

cc: Project Manager: Rus Purcell
Job File:
Other:

F-43.2 (5-89)

Groundwater Purge and Sample Form Date: 7-14-99 **Kennedy/Jenks Consultants**

PROJECT NAME: Boeing C-6 WELL NUMBER: TMW-9

PROJECT NUMBER: 994001.00 PERSONNEL: Shane Scrimshire

STATIC WATER LEVEL (FT): 64.91 MEASURING POINT DESCRIPTION: Top of Casing

WATER LEVEL MEASUREMENT METHOD: Electric Probe PURGE METHOD: Redi-Flow 2

TIME START PURGE: 1638 PURGE DEPTH (FT) 75'

TIME END PURGE: 1645

TIME SAMPLED: 1650

COMMENTS:

WELL VOLUME CALCULATION (FILL IN BEFORE PURGING)	TOTAL DEPTH (FT)	-	DEPTH TO WATER (FT)	=	WATER COLUMN (FT)	X	MULTIPLIER FOR CASING DIAMETER (IN) 2	4	6	=	x 3 = 7 CASING VOLUME (GAL)
	79.26		64.91		14.35		0.16	0.64	1.44		2.3

TIME	1640	1643	1645				
VOLUME PURGED (GAL)	2.5	5.5	9				
PURGE RATE (GPM)							
TEMPERATURE (°C)	77.6	76.4	75.9				
pH	7.79	7.49	7.48				
SPECIFIC CONDUCTIVITY (micromhos/cm) (uncorrected)	1567.	1529.	1520				
DISSOLVED OXYGEN (mg/L)							
eH(MV)Pt-AgCl ref.							
TURBIDITY/COLOR	Cloudy	v. lightly cloudy	v.v. lightly cloudy				
ODOR	NO	NO	NO				
DEPTH OF PURGE INTAKE (FT)	75'	75'	75'				
DEPTH TO WATER DURING PURGE (FT)							
NUMBER OF CASING VOLUMES REMOVED							
DEWATERED?							

Groundwater Purge and Sample Form Date: 7-14-99 **Kennedy/Jenks Consultants**

PROJECT NAME: Boeing C-6 WELL NUMBER: TMW-9

PROJECT NUMBER: 994001.00 PERSONNEL: Shane Scrimshire

SAMPLE DATA:

TIME SAMPLED: 1650 COMMENTS:

DEPTH SAMPLED (FT): 75'

SAMPLING EQUIPMENT: Redi-Flow 2

SAMPLE NO.	NO. OF CONTAIN-ERS	CON-TAINER TYPE	PRESER-VATIVE	FIELD FILTRA-TION	VOLUME FILLED (ml or L)	TURBIDITY	COLOR	SHIPPED UNDER CHAIN-OF-CUS-TODY AT 4°C?	ANALYSIS REQUEST (METHOD)	COMMENTS
TMW9-GW-2	6	—	HCL + HNO3	—	—	—	V.V. lightly turbid	Yes	See COC	

PURGE WATER DISPOSAL NOTES:

TOTAL DISCHARGE (GAL): 9 COMMENTS:

DISPOSAL METHOD: Drum Storage

DRUM DESIGNATION(S)/VOLUME PER (GAL):

WELL HEAD CONDITIONS CHECKLIST (CIRCLE YES OR NO - IF NO, ADD COMMENTS):

WELL SECURITY DEVICES OK (BOLLARDS, CHRISTY LID, CASING LID AND LOCK)?: (YES) NO

INSIDE OF WELL HEAD AND OUTER CASING DRY?: (YES) NO

WELL CASING OK?: (YES) NO

COMMENTS:

GENERAL:

WEATHER CONDITIONS: Well in building #1

TEMPERATURE (SPECIFY °C OR °F): 75°F

PROBLEMS ENCOUNTERED DURING PURGING OR SAMPLING? No

cc: Project Manager: Rus Purcell
Job File:
Other:

Groundwater Purge and Sample Form Date: 7-14-99 **Kennedy/Jenks Consultants**

PROJECT NAME: Boeing C-6 WELL NUMBER: TMW-5

PROJECT NUMBER: 994001.00 PERSONNEL: Shane Scrimshire

STATIC WATER LEVEL (FT): 64.45 MEASURING POINT DESCRIPTION: Top of casing

WATER LEVEL MEASUREMENT METHOD: Electric Probe PURGE METHOD: Redi-Flow 2

TIME START PURGE: 1738 PURGE DEPTH (FT) 75'

TIME END PURGE: 1746

TIME SAMPLED: 1750

COMMENTS:

WELL VOLUME CALCULATION (FILL IN BEFORE PURGING)	TOTAL DEPTH (FT)	-	DEPTH TO WATER (FT)	=	WATER COLUMN (FT)	X	MULTIPLIER FOR CASING DIAMETER (IN) 2	4	6	=	X 3 = 7 CASING VOLUME (GAL)
	79.95		64.45		15.50		0.16	0.64	1.44		2.5

TIME	1740	1743	1746				
VOLUME PURGED (GAL)	2.5	5	8				
PURGE RATE (GPM)							
TEMPERATURE (°C)	74.6	74.0	73.2				
pH	8.11	7.83	7.66				
SPECIFIC CONDUCTIVITY (micromhos/cm) (uncorrected)	844.	834.	835				
DISSOLVED OXYGEN (mg/L)							
eH(MV)Pt-AgCl ref.							
TURBIDITY/COLOR	light yellow, cloudy	v.v. light yellow, slightly cloudy	clear				
ODOR	NO	NO	NO				
DEPTH OF PURGE INTAKE (FT)	75'	75'	75'				
DEPTH TO WATER DURING PURGE (FT)							
NUMBER OF CASING VOLUMES REMOVED							
DEWATERED?							

Groundwater Purge and Sample Form Date: 7-14-99 **Kennedy/Jenks Consultants**

PROJECT NAME: Boeing C-6 WELL NUMBER: TMW-5

PROJECT NUMBER: 994001.00 PERSONNEL: Shane Scrimshire

SAMPLE DATA:

TIME SAMPLED: 1750 COMMENTS:

DEPTH SAMPLED (FT): 75'

SAMPLING EQUIPMENT: Redi-Flow 2

SAMPLE NO.	NO. OF CONTAINERS	CONTAINER TYPE	PRESERVATIVE	FIELD FILTRATION	VOLUME FILLED (ml or L)	TURBIDITY	COLOR	SHIPPED UNDER CHAIN-OF-CUSTODY AT 4°C?	ANALYSIS REQUEST (METHOD)	COMMENTS
TMW5-GW-2	6	—	HCL + HNO3	—	—	—	Clear	YES	See COC	

PURGE WATER DISPOSAL NOTES:

TOTAL DISCHARGE (GAL): 8 COMMENTS:

DISPOSAL METHOD: Drum Storage

DRUM DESIGNATION(S)/VOLUME PER (GAL):

WELL HEAD CONDITIONS CHECKLIST (CIRCLE YES OR NO - IF NO, ADD COMMENTS):

WELL SECURITY DEVICES OK (BOLLARDS, CHRISTY LID, CASING LID AND LOCK)?: (YES) NO

INSIDE OF WELL HEAD AND OUTER CASING DRY?: (YES) NO

WELL CASING OK?: (YES) NO

COMMENTS:

GENERAL:

WEATHER CONDITIONS: Clear

TEMPERATURE (SPECIFY °C OR °F): 75°F

PROBLEMS ENCOUNTERED DURING PURGING OR SAMPLING? NO

cc: Project Manager: Rus Purcell
Job File:
Other:

Groundwater Purge and Sample Form Date: 7-15-99 **Kennedy/Jenks Consultants**

PROJECT NAME: Boeing C-6 WELL NUMBER: TMW-6

PROJECT NUMBER: 994001.00 PERSONNEL: Shane Scrimshire

STATIC WATER LEVEL (FT): 64.55 MEASURING POINT DESCRIPTION: Top of Casing

WATER LEVEL MEASUREMENT METHOD: Electric Probe PURGE METHOD: Redi-Flow 2

TIME START PURGE: 0802 PURGE DEPTH (FT) 75'

TIME END PURGE: 0809

TIME SAMPLED: 0815

COMMENTS:

WELL VOLUME CALCULATION (FILL IN BEFORE PURGING)	TOTAL DEPTH (FT)	-	DEPTH TO WATER (FT)	=	WATER COLUMN (FT)	X	MULTIPLIER FOR CASING DIAMETER (IN) 2	4	6	=	x 3 = 7.5 CASING VOLUME (GAL)
	79.95		64.55		15.40		0.16	0.64	1.44		2.5

TIME	0805	0807	0809				
VOLUME PURGED (GAL)	2.5	6	9				
PURGE RATE (GPM)							
TEMPERATURE (°C)	72.9	72.9	72.6				
pH	7.15	7.24	7.26				
SPECIFIC CONDUCTIVITY (micromhos/cm) (uncorrected)	1891.	1935	1904				
DISSOLVED OXYGEN (mg/L)							
eH(MV)Pt-AgCl ref.							
TURBIDITY/COLOR	Brown	light olive tan	→				
ODOR	NO	NO	NO				
DEPTH OF PURGE INTAKE (FT)	75'	75'	75				
DEPTH TO WATER DURING PURGE (FT)							
NUMBER OF CASING VOLUMES REMOVED							
DEWATERED?							

Groundwater Purge and Sample Form Date: 7-15-99 **Kennedy/Jenks Consultants**

PROJECT NAME: Boeing C-6 WELL NUMBER: TMW-6

PROJECT NUMBER: 994001.00 PERSONNEL: Shane Scrimshire

SAMPLE DATA:

TIME SAMPLED: 0815 COMMENTS:

DEPTH SAMPLED (FT): 75'

SAMPLING EQUIPMENT: Redi-Flow 2

SAMPLE NO.	NO. OF CONTAIN-ERS	CON-TAINER TYPE	PRESER-VATIVE	FIELD FILTRA-TION	VOLUME FILLED (ml or L)	TURBIDITY	COLOR	SHIPPED UNDER CHAIN-OF-CUS-TODY AT 4°C?	ANALYSIS REQUEST (METHOD)	COMMENTS
TMW6-GW-2	6	—	HCL + HNO3	NO	—	—	light olive tan	Yes	See COC	

PURGE WATER DISPOSAL NOTES:

TOTAL DISCHARGE (GAL): 9 COMMENTS:

DISPOSAL METHOD: Drum Storage

DRUM DESIGNATION(S)/VOLUME PER (GAL): —

WELL HEAD CONDITIONS CHECKLIST (CIRCLE YES OR NO - IF NO, ADD COMMENTS):

WELL SECURITY DEVICES OK (BOLLARDS, CHRISTY LID, CASING LID AND LOCK)?: (YES) NO

INSIDE OF WELL HEAD AND OUTER CASING DRY?: (YES) NO

WELL CASING OK?: (YES) NO

COMMENTS:

GENERAL:

WEATHER CONDITIONS: Clear

TEMPERATURE (SPECIFY °C OR °F): 70°F

PROBLEMS ENCOUNTERED DURING PURGING OR SAMPLING? NO

cc: Project Manager: Rus Purcell
Job File:
Other:

Groundwater Purge and Sample Form Date: 7-15-99 **Kennedy/Jenks Consultants**

PROJECT NAME: Boeing C-6

WELL NUMBER: TMW-4

PROJECT NUMBER: 994001.00

PERSONNEL: Shane Scrimshire

STATIC WATER LEVEL (FT): 64.38

MEASURING POINT DESCRIPTION: Top of casing

WATER LEVEL MEASUREMENT METHOD: Electric sounder

PURGE METHOD: Redi-Flow 2

TIME START PURGE: 0900

PURGE DEPTH (FT) 70'

TIME END PURGE: 0910

TIME SAMPLED: 0915

COMMENTS:

WELL VOLUME CALCULATION (FILL IN BEFORE PURGING)	TOTAL DEPTH (FT)	-	DEPTH TO WATER (FT)	=	WATER COLUMN (FT)	X	MULTIPLIER FOR CASING DIAMETER (IN) 2	4	6	=	x3= 6.7 CASING VOLUME (GAL)
	78.35		64.38		13.97		0.16	0.64	1.44		2.23

TIME	0903	0906	0910				
VOLUME PURGED (GAL)	2	5	7				
PURGE RATE (GPM)							
TEMPERATURE (°C)	74.0	74.9	75.0				
pH	7.34	7.41	7.41				
SPECIFIC CONDUCTIVITY (micromhos/cm) (uncorrected)	1510.	1525	1524.				
DISSOLVED OXYGEN (mg/L)							
eH(MV)Pt-AgCl ref.							
TURBIDITY/COLOR	V. slightly cloudy, light tan	→	V.V. light tan				
ODOR	NO	NO	NO				
DEPTH OF PURGE INTAKE (FT)	70'	70'	70'				
DEPTH TO WATER DURING PURGE (FT)							
NUMBER OF CASING VOLUMES REMOVED							
DEWATERED?							

Groundwater Purge and Sample Form Date: 7-15-99 **Kennedy/Jenks Consultants**

PROJECT NAME: Boeing C-6 WELL NUMBER: TMW-4

PROJECT NUMBER: 994001.00 PERSONNEL: Shane Scrimshire

SAMPLE DATA:

TIME SAMPLED: 0915 COMMENTS:

DEPTH SAMPLED (FT): 70'

SAMPLING EQUIPMENT: Redi-Flow 2

SAMPLE NO.	NO. OF CONTAINERS	CONTAINER TYPE	PRESERVATIVE	FIELD FILTRATION	VOLUME FILLED (ml or L)	TURBIDITY	COLOR	SHIPPED UNDER CHAIN-OF-CUSTODY AT 4°C?	ANALYSIS REQUEST (METHOD)	COMMENTS
TMW4-GW-2	6	—	HCL + HNO3	—	—	—	v.v light tan	Yes	see COC	

PURGE WATER DISPOSAL NOTES:

TOTAL DISCHARGE (GAL): 7 COMMENTS:

DISPOSAL METHOD: Drum Storage

DRUM DESIGNATION(S)/VOLUME PER (GAL): —

WELL HEAD CONDITIONS CHECKLIST (CIRCLE YES OR NO - IF NO, ADD COMMENTS):

WELL SECURITY DEVICES OK (BOLLARDS, CHRISTY LID, CASING LID AND LOCK)?: (YES) NO

INSIDE OF WELL HEAD AND OUTER CASING DRY?: (YES) NO

WELL CASING OK?: (YES) NO

COMMENTS:

GENERAL:

WEATHER CONDITIONS: Clear

TEMPERATURE (SPECIFY °C OR °F): 70°F

PROBLEMS ENCOUNTERED DURING PURGING OR SAMPLING? NO

cc: Project Manager: Rus Purcell
Job File:
Other:

Groundwater Purge and Sample Form Date: 7-15-99 **Kennedy/Jenks Consultants**

PROJECT NAME: Boeing C-6 WELL NUMBER: TMW-1

PROJECT NUMBER: 994001.00 PERSONNEL: Shane Scrimshire

STATIC WATER LEVEL (FT): 64.48 MEASURING POINT DESCRIPTION: Top of Casing

WATER LEVEL MEASUREMENT METHOD: Electric Sounder PURGE METHOD: Red. -Flow 2

TIME START PURGE: 1018 PURGE DEPTH (FT) 70'

TIME END PURGE: 1030

TIME SAMPLED: 1035

COMMENTS:

WELL VOLUME CALCULATION (FILL IN BEFORE PURGING)	TOTAL DEPTH (FT)	-	DEPTH TO WATER (FT)	=	WATER COLUMN (FT)	X	MULTIPLIER FOR CASING DIAMETER (IN) 2	4	6	=	x 3 = 7.5 CASING VOLUME (GAL)
	80.10		64.48		15.62		0.16	0.64	1.44		2.5

TIME	1020	1024	1030				
VOLUME PURGED (GAL)	3	6	9				
PURGE RATE (GPM)	.75	.75	.50				
TEMPERATURE (°C)	74.1	74.5	74.5				
pH	7.70	7.60	7.59				
SPECIFIC CONDUCTIVITY (micromhos/cm) (uncorrected)	2850.	2920	2930.				
DISSOLVED OXYGEN (mg/L)							
eH(MV)Pt-AgCl ref.							
TURBIDITY/COLOR	light tan, slightly turbid	light tan	v. lightly turbid				
ODOR	NO	NO	NO				
DEPTH OF PURGE INTAKE (FT)	70'	70'	70'				
DEPTH TO WATER DURING PURGE (FT)							
NUMBER OF CASING VOLUMES REMOVED							
DEWATERED?							

Groundwater Purge and Sample Form Date: 7-15-99 **Kennedy/Jenks Consultants**

PROJECT NAME: Boeing C-6 WELL NUMBER: TMW-1

PROJECT NUMBER: 994001.00 PERSONNEL: Shane Scrimshire

SAMPLE DATA:

TIME SAMPLED: 1035 COMMENTS:

DEPTH SAMPLED (FT): 70'

SAMPLING EQUIPMENT: Redi-Flow 2

SAMPLE NO.	NO. OF CONTAINERS	CONTAINER TYPE	PRESERVATIVE	FIELD FILTRATION	VOLUME FILLED (ml or L)	TURBIDITY	COLOR	SHIPPED UNDER CHAIN-OF-CUSTODY AT 4°C?	ANALYSIS REQUEST (METHOD)	COMMENTS
TMW1-GW-2	6	—	HCL + HNO3	—	—	—	v. lightly turbid, no color	Yes	See COC	

PURGE WATER DISPOSAL NOTES:

TOTAL DISCHARGE (GAL): 9 COMMENTS:

DISPOSAL METHOD: Drum Storage

DRUM DESIGNATION(S)/VOLUME PER (GAL): —

WELL HEAD CONDITIONS CHECKLIST (CIRCLE YES OR NO - IF NO, ADD COMMENTS):

WELL SECURITY DEVICES OK (BOLLARDS, CHRISTY LID, CASING LID AND LOCK)?: YES NO

INSIDE OF WELL HEAD AND OUTER CASING DRY?: YES NO

WELL CASING OK?: YES NO

COMMENTS:

GENERAL:

WEATHER CONDITIONS: Clear - Well is inside building #1

TEMPERATURE (SPECIFY °C OR °F): 75°F

PROBLEMS ENCOUNTERED DURING PURGING OR SAMPLING? NO

cc: Project Manager: Rus Purcell
Job File:
Other:

F-43.2 (5-89)

Groundwater Purge and Sample Form Date: 7-15-99 **Kennedy/Jenks Consultants**

PROJECT NAME: Boeing C-6 WELL NUMBER: TMW-7

PROJECT NUMBER: 994001.00 PERSONNEL: Shane Scrimshire

STATIC WATER LEVEL (FT): 64.90 MEASURING POINT DESCRIPTION: Top of Casing

WATER LEVEL MEASUREMENT METHOD: Electric Probe PURGE METHOD: Redi-Flow 2

TIME START PURGE: 1115 PURGE DEPTH (FT) 75'

TIME END PURGE: 1123

TIME SAMPLED: 1130

COMMENTS:

WELL VOLUME CALCULATION (FILL IN BEFORE PURGING)	TOTAL DEPTH (FT)	-	DEPTH TO WATER (FT)	=	WATER COLUMN (FT)	X	MULTIPLIER FOR CASING DIAMETER (IN) 2	4	6	=	x3 = 8.5 CASING VOLUME (GAL)
	82.30		64.90		17.40		0.16	0.64	1.44		2.8

TIME	1119	1121	1123				
VOLUME PURGED (GAL)	4	7	10				
PURGE RATE (GPM)							
TEMPERATURE (°C)	76.6	76.0	75.7				
pH	7.40	7.34	7.32				
SPECIFIC CONDUCTIVITY (micromhos/cm) (uncorrected)	1700.	1680.	1670.				
DISSOLVED OXYGEN (mg/L)							
eH(MV)Pt-AgCl ref.							
TURBIDITY/COLOR	olive tan	olive tan	→				
ODOR	No	No	No				
DEPTH OF PURGE INTAKE (FT)	75'	75'	75'				
DEPTH TO WATER DURING PURGE (FT)							
NUMBER OF CASING VOLUMES REMOVED							
DEWATERED?							

F-43.1 (5-89)

Groundwater Purge and Sample Form Date: 7-15-99 **Kennedy/Jenks Consultants**

PROJECT NAME: Boeing C-6 WELL NUMBER: TMW-7

PROJECT NUMBER: 994001.00 PERSONNEL: Shane Scrimshire

SAMPLE DATA:

TIME SAMPLED: 1130 COMMENTS:

DEPTH SAMPLED (FT): 75'

SAMPLING EQUIPMENT: Redi-Flow 2

SAMPLE NO.	NO. OF CONTAINERS	CONTAINER TYPE	PRESERVATIVE	FIELD FILTRATION	VOLUME FILLED (ml or L)	TURBIDITY	COLOR	SHIPPED UNDER CHAIN-OF-CUSTODY AT 4°C?	ANALYSIS REQUEST (METHOD)	COMMENTS
TMW-7-GW-2	6	—	HCL + HNO3	—	—	—	olive tan	Yes	See COC	

PURGE WATER DISPOSAL NOTES:

TOTAL DISCHARGE (GAL): 10 COMMENTS:

DISPOSAL METHOD: Drum Storage

DRUM DESIGNATION(S)/VOLUME PER (GAL): —

WELL HEAD CONDITIONS CHECKLIST (CIRCLE YES OR NO - IF NO, ADD COMMENTS):

WELL SECURITY DEVICES OK (BOLLARDS, CHRISTY LID, CASING LID AND LOCK)?: YES NO

INSIDE OF WELL HEAD AND OUTER CASING DRY?: YES NO

WELL CASING OK?: YES NO

COMMENTS:

GENERAL:

WEATHER CONDITIONS: Clear

TEMPERATURE (SPECIFY °C OR °F): 80°F

PROBLEMS ENCOUNTERED DURING PURGING OR SAMPLING? NO

cc: Project Manager: Rus Purcell
Job File:
Other:

Groundwater Purge and Sample Form Date: 7-15-99 **Kennedy/Jenks Consultants**

PROJECT NAME: Boeing C-6 WELL NUMBER: TMW-8

PROJECT NUMBER: 994001.00 PERSONNEL: Shane Scrimshire

STATIC WATER LEVEL (FT): 75' ? MEASURING POINT DESCRIPTION: Top of Casing

WATER LEVEL MEASUREMENT METHOD: Electric Sounder PURGE METHOD: Redi-Flow 2

TIME START PURGE: 1404 PURGE DEPTH (FT) 75'

TIME END PURGE: ~~1415~~ 1411

TIME SAMPLED: 1413

COMMENTS:

WELL VOLUME CALCULATION (FILL IN BEFORE PURGING)	TOTAL DEPTH (FT)	-	DEPTH TO WATER (FT)	=	WATER COLUMN (FT)	X	MULTIPLIER FOR CASING DIAMETER (IN) 2	4	6	=	x 3 = 7.2 CASING VOLUME (GAL)
	79.70		64.71		14.99		0.16	0.64	1.44		2.4

TIME	1407	1409	1411				
VOLUME PURGED (GAL)	2.5	5	8				
PURGE RATE (GPM)							
TEMPERATURE (°C)	79.0	77.1	76.4				
pH	7.28	7.03	7.17				
SPECIFIC CONDUCTIVITY (micromhos/cm) (uncorrected)	1410.	1400	1400				
DISSOLVED OXYGEN (mg/L)							
eH(MV)Pt-AgCl ref.							
TURBIDITY/COLOR	olive tan	light olive tan	light olive tan				
ODOR	NO	NO	NO				
DEPTH OF PURGE INTAKE (FT)	75'	75'	75'				
DEPTH TO WATER DURING PURGE (FT)							
NUMBER OF CASING VOLUMES REMOVED							
DEWATERED?							

Groundwater Purge and Sample Form Date: 7-15-99 **Kennedy/Jenks Consultants**

PROJECT NAME: Boeing C-6 WELL NUMBER: TMW-8

PROJECT NUMBER: 994001.00 PERSONNEL: Shane Scrimshire

SAMPLE DATA:

TIME SAMPLED: 1415 COMMENTS:

DEPTH SAMPLED (FT): 75'

SAMPLING EQUIPMENT: Redi-Flow 2

SAMPLE NO.	NO. OF CONTAIN-ERS	CON-TAINER TYPE	PRESER-VATIVE	FIELD FILTRA-TION	VOLUME FILLED (ml or L)	TURBIDITY	COLOR	SHIPPED UNDER CHAIN-OF-CUS-TODY AT 4°C?	ANALYSIS REQUEST (METHOD)	COMMENTS
TMW8-SW-2	6	—	HCL + HNO3	—	—	—	light olive tan	Yes	See COC	

PURGE WATER DISPOSAL NOTES:

TOTAL DISCHARGE (GAL): 8 COMMENTS:

DISPOSAL METHOD: Drum storage

DRUM DESIGNATION(S)/VOLUME PER (GAL): —

WELL HEAD CONDITIONS CHECKLIST (CIRCLE YES OR NO - IF NO, ADD COMMENTS):

WELL SECURITY DEVICES OK (BOLLARDS, CHRISTY LID, CASING LID AND LOCK)?: (YES) NO

INSIDE OF WELL HEAD AND OUTER CASING DRY?: (YES) NO

WELL CASING OK?: (YES) NO

COMMENTS:

GENERAL:

WEATHER CONDITIONS: Clear

TEMPERATURE (SPECIFY °C OR °F): 80°F

PROBLEMS ENCOUNTERED DURING PURGING OR SAMPLING? NO

cc: Project Manager: Rus Purcell
Job File:
Other:

F-43.2 (5-89)

Groundwater Purge and Sample Form Date: 7-15-99 **Kennedy/Jenks Consultants**

PROJECT NAME: Boeing C-6 WELL NUMBER: TMW-3

PROJECT NUMBER: 994001.00 PERSONNEL: Shane Scrimshire

STATIC WATER LEVEL (FT): 64.98 MEASURING POINT DESCRIPTION: Top of Casing

WATER LEVEL MEASUREMENT METHOD: Electric Sounder PURGE METHOD: Red. -Flow 2

TIME START PURGE: 1500 PURGE DEPTH (FT) 75'

TIME END PURGE: 1510

TIME SAMPLED: 1515

COMMENTS:

WELL VOLUME CALCULATION (FILL IN BEFORE PURGING)	TOTAL DEPTH (FT)	-	DEPTH TO WATER (FT)	=	WATER COLUMN (FT)	X	MULTIPLIER FOR CASING DIAMETER (IN) 2	4	6	=	x 3 = 8.1 CASING VOLUME (GAL)
	82.10		64.98		17.12		0.16	0.64	1.44		2.7

TIME	1503	1507	1510				
VOLUME PURGED (GAL)	3	6	8.5				
PURGE RATE (GPM)							
TEMPERATURE (°C)	74.1	74.7	74.8				
pH	7.35	7.45	7.33				
SPECIFIC CONDUCTIVITY (micromhos/cm) (uncorrected)	1580.	1670.	1670.				
DISSOLVED OXYGEN (mg/L)							
eH(MV)Pt-AgCl ref.							
TURBIDITY/COLOR	turbid Brown	→	light brown				
ODOR	NO	NO	NO				
DEPTH OF PURGE INTAKE (FT)	75'	75'	75'				
DEPTH TO WATER DURING PURGE (FT)							
NUMBER OF CASING VOLUMES REMOVED							
DEWATERED?							

Groundwater Purge and Sample Form Date: 7-15-99 **Kennedy/Jenks Consultants**

PROJECT NAME: Boeing C-6 WELL NUMBER: TMW-3

PROJECT NUMBER: 994001.00 PERSONNEL: Shane Scrimshire

SAMPLE DATA:

TIME SAMPLED: 1515 COMMENTS:

DEPTH SAMPLED (FT): 75'

SAMPLING EQUIPMENT: Redi-Flow 2

SAMPLE NO.	NO. OF CONTAINERS	CONTAINER TYPE	PRESERVATIVE	FIELD FILTRATION	VOLUME FILLED (ml or L)	TURBIDITY	COLOR	SHIPPED UNDER CHAIN-OF-CUSTODY AT 4°C?	ANALYSIS REQUEST (METHOD)	COMMENTS
TMW3-GW-2	6	—	HCL + HNO3	—	—	—	light brown	YES	See COC	

PURGE WATER DISPOSAL NOTES:

TOTAL DISCHARGE (GAL): 55.5 COMMENTS:

DISPOSAL METHOD: Drum Storage

DRUM DESIGNATION(S)/VOLUME PER (GAL): —

WELL HEAD CONDITIONS CHECKLIST (CIRCLE YES OR NO - IF NO, ADD COMMENTS):

WELL SECURITY DEVICES OK (BOLLARDS, CHRISTY LID, CASING LID AND LOCK)?: (YES) NO

INSIDE OF WELL HEAD AND OUTER CASING DRY?: (YES) NO

WELL CASING OK?: (YES) NO

COMMENTS:

GENERAL:

WEATHER CONDITIONS: Clear

TEMPERATURE (SPECIFY °C OR °F): 82°F

PROBLEMS ENCOUNTERED DURING PURGING OR SAMPLING? No

cc: Project Manager: Rus Purcell
Job File:
Other:

Groundwater Purge and Sample Form Date: 7-15-99 **Kennedy/Jenks Consultants**

PROJECT NAME: Boeing C-6 WELL NUMBER: WCC-55

PROJECT NUMBER: 994001.00 PERSONNEL: Shane Scrimshire

STATIC WATER LEVEL (FT): 62.09 MEASURING POINT DESCRIPTION: Top of Casing

WATER LEVEL MEASUREMENT METHOD: Electric Sounder PURGE METHOD: Redi-Flow 2

TIME START PURGE: 1636 PURGE DEPTH (FT) 75'

TIME END PURGE: 1706

TIME SAMPLED: 1710

COMMENTS:

WELL VOLUME CALCULATION (FILL IN BEFORE PURGING)	TOTAL DEPTH (FT)	-	DEPTH TO WATER (FT)	=	WATER COLUMN (FT)	X	MULTIPLIER FOR CASING DIAMETER (IN) 2	4	6	=	x 3 = 54 CASING VOLUME (GAL)
	90.00		62.09		27.91		0.16	0.64	1.44		18

TIME	1643	1648	1656	1706			
VOLUME PURGED (GAL)	5	18	37	55			
PURGE RATE (GPM)							
TEMPERATURE (°C)	74.9	73.9	74.3	73.7			
pH	7.28	7.25	7.25	7.16			
SPECIFIC CONDUCTIVITY (micromhos/cm) (uncorrected)	1600.	1647.	1641.	1644			
DISSOLVED OXYGEN (mg/L)							
eH(MV)Pt-AgCl ref.							
TURBIDITY/COLOR	Clear	Clear	Clear	Clear			
ODOR	NO	NO	NO	NO			
DEPTH OF PURGE INTAKE (FT)	75'	75'	75'	75'			
DEPTH TO WATER DURING PURGE (FT)							
NUMBER OF CASING VOLUMES REMOVED							
DEWATERED?							

Groundwater Purge and Sample Form Date: 7-15-99 **Kennedy/Jenks Consultants**

PROJECT NAME: Boeing C-6 WELL NUMBER: WCC-SS

PROJECT NUMBER: 99400100 PERSONNEL: Shane Scrimshire

SAMPLE DATA:

TIME SAMPLED: 1710 COMMENTS:

DEPTH SAMPLED (FT): 75'

SAMPLING EQUIPMENT: Red. -Flow 2

SAMPLE NO.	NO. OF CONTAINERS	CONTAINER TYPE	PRESERVATIVE	FIELD FILTRATION	VOLUME FILLED (ml or L)	TURBIDITY	COLOR	SHIPPED UNDER CHAIN-OF-CUSTODY AT 4°C?	ANALYSIS REQUEST (METHOD)	COMMENTS
WCC SS GW-2	6	—	HCL + HNO3	—	—	—	Clear	Yes	See COC	

PURGE WATER DISPOSAL NOTES:

TOTAL DISCHARGE (GAL): 55 COMMENTS:

DISPOSAL METHOD: Drum Storage

DRUM DESIGNATION(S)/VOLUME PER (GAL): —

WELL HEAD CONDITIONS CHECKLIST (CIRCLE YES OR NO - IF NO, ADD COMMENTS):

WELL SECURITY DEVICES OK (BOLLARDS, CHRISTY LID, CASING LID AND LOCK)?: YES NO

INSIDE OF WELL HEAD AND OUTER CASING DRY?: YES NO

WELL CASING OK?: YES NO

COMMENTS: Removed 20' section of fence to access well. Could only get Field Van + drums within about 100' of well.

GENERAL:

WEATHER CONDITIONS: Clear

TEMPERATURE (SPECIFY °C OR °F): 80 °F

PROBLEMS ENCOUNTERED DURING PURGING OR SAMPLING? NO

cc: Project Manager: Rus Purcell
Job File:
Other:

Groundwater Purge and Sample Form Date: 7-16-99 **Kennedy/Jenks Consultants**

PROJECT NAME: Boeing C-6 WELL NUMBER: WCC-3D

PROJECT NUMBER: 994001.00 PERSONNEL: Shane Scrimshire

STATIC WATER LEVEL (FT): 64.65 MEASURING POINT DESCRIPTION: Top of Casing

WATER LEVEL MEASUREMENT METHOD: Electric Probe PURGE METHOD: Redi-Flow 2

TIME START PURGE: 0720 PURGE DEPTH (FT) 100'

TIME END PURGE: 0830

TIME SAMPLED: 0840

COMMENTS: Collected duplicate sample at WCC-3D.

WELL VOLUME CALCULATION (FILL IN BEFORE PURGING)	TOTAL DEPTH (FT)	-	DEPTH TO WATER (FT)	=	WATER COLUMN (FT)	X	MULTIPLIER FOR CASING DIAMETER (IN) 2	4	6	=	x 3 = 144 CASING VOLUME (GAL)
	139.45		64.65		74.80		0.16	0.64	1.44		48

TIME	0726	0745	0808	0830			
VOLUME PURGED (GAL)	5	50	100	150			
PURGE RATE (GPM)							
TEMPERATURE (°C)	71.6	72.1	72.6	71.8			
pH	7.09	7.62	7.75	7.60			
SPECIFIC CONDUCTIVITY (micromhos/cm) (uncorrected)	745	773.	760.	751.			
DISSOLVED OXYGEN (mg/L)							
eH(MV)Pt-AgCl ref.							
TURBIDITY/COLOR	Clear	Clear	Clear	Clear			
ODOR	NO	NO	NO	NO			
DEPTH OF PURGE INTAKE (FT)	100'	100'	100'	100'			
DEPTH TO WATER DURING PURGE (FT)	—	81.70	85.50	85.40			
NUMBER OF CASING VOLUMES REMOVED							
DEWATERED?							

Groundwater Purge and Sample Form Date: 7-16-99 **Kennedy/Jenks Consultants**

PROJECT NAME: Boeing C-6 WELL NUMBER: WCC-3D

PROJECT NUMBER: 994001.00 PERSONNEL: Shane Scrimshire

SAMPLE DATA:

TIME SAMPLED: 0540 COMMENTS: Collected duplicate sample at this well. # WCC3D-GW-2-D

DEPTH SAMPLED (FT): 100'

SAMPLING EQUIPMENT: Redi-Flow 2

SAMPLE NO.	NO. OF CONTAINERS	CONTAINER TYPE	PRESERVATIVE	FIELD FILTRATION	VOLUME FILLED (ml or L)	TURBIDITY	COLOR	SHIPPED UNDER CHAIN-OF-CUSTODY AT 4°C?	ANALYSIS REQUEST (METHOD)	COMMENTS
WCC3D-GW-2	6	—	HCl + HNO3	—	—	—	Clear	Yes	see COC	
WCC3D-GW-2-D	"	—	"	—	—	—	"	"	"	

PURGE WATER DISPOSAL NOTES:

TOTAL DISCHARGE (GAL): 150 COMMENTS:

DISPOSAL METHOD: Drum Storage

DRUM DESIGNATION(S)/VOLUME PER (GAL): —

WELL HEAD CONDITIONS CHECKLIST (CIRCLE YES OR NO - IF NO, ADD COMMENTS):

WELL SECURITY DEVICES OK (BOLLARDS, CHRISTY LID, CASING LID AND LOCK)?: YES (NO)

INSIDE OF WELL HEAD AND OUTER CASING DRY?: (YES) NO

WELL CASING OK?: (YES) NO

COMMENTS: Well cap broken + does not seal.

GENERAL:

WEATHER CONDITIONS: Clear

TEMPERATURE (SPECIFY °C OR °F): 70°F

PROBLEMS ENCOUNTERED DURING PURGING OR SAMPLING? NO

cc: Project Manager: Rus Purcell
Job File:
Other:

Groundwater Purge and Sample Form Date: 7.16.95 **Kennedy/Jenks Consultants**

PROJECT NAME: Boeing C-6 WELL NUMBER: WCC-35

PROJECT NUMBER: 994001.00 PERSONNEL: Shane Scrimshire

STATIC WATER LEVEL (FT): 64.49 MEASURING POINT DESCRIPTION: Top of Casing

WATER LEVEL MEASUREMENT METHOD: Electric Sounder PURGE METHOD: Redi-Flow 2

TIME START PURGE: 0947 PURGE DEPTH (FT) 70'

TIME END PURGE: 1007

TIME SAMPLED: 1012

COMMENTS:

WELL VOLUME CALCULATION (FILL IN BEFORE PURGING)	TOTAL DEPTH (FT)	-	DEPTH TO WATER (FT)	=	WATER COLUMN (FT)	X	MULTIPLIER FOR CASING DIAMETER (IN) 2	4	6	=	X 3 = 47 CASING VOLUME (GAL)
	88.90		64.49		24.41		0.16	0.64	1.44		15.6

TIME	0951	0955	1002	1007			
VOLUME PURGED (GAL)	5	15	32	50			
PURGE RATE (GPM)							
TEMPERATURE (°C)	75.5	75.7	75.4	74.9			
pH	6.43	6.47	6.60	6.61			
SPECIFIC CONDUCTIVITY (micromhos/cm) (uncorrected)	3680.	3410.	2920.	2720.			
DISSOLVED OXYGEN (mg/L)							
eH(MV)Pt-AgCl ref.							
TURBIDITY/COLOR	Clear	Clear	Clear	Clear			
ODOR	Strong solvent odor	Strong solvent odor	Strong solvent odor	Strong solvent odor			
DEPTH OF PURGE INTAKE (FT)	70'	70'	70	70'			
DEPTH TO WATER DURING PURGE (FT)							
NUMBER OF CASING VOLUMES REMOVED							
DEWATERED?							

Groundwater Purge and Sample Form Date: 7-16-99 **Kennedy/Jenks Consultants**

PROJECT NAME: Boeing C-6 WELL NUMBER: WCC-35

PROJECT NUMBER: 994001.00 PERSONNEL: Shane Scrimshire

SAMPLE DATA:

TIME SAMPLED: 1012 COMMENTS:

DEPTH SAMPLED (FT): 70'

SAMPLING EQUIPMENT: Redi-Flow 2

SAMPLE NO.	NO. OF CONTAINERS	CONTAINER TYPE	PRESERVATIVE	FIELD FILTRATION	VOLUME FILLED (ml or L)	TURBIDITY	COLOR	SHIPPED UNDER CHAIN-OF-CUSTODY AT 4°C?	ANALYSIS REQUEST (METHOD)	COMMENTS
WCC35-GW-2	6	—	HCL + HNO3	—	—	—	Clear	Yes	See COC	

PURGE WATER DISPOSAL NOTES:

TOTAL DISCHARGE (GAL): 50 COMMENTS:

DISPOSAL METHOD: Drum Storage

DRUM DESIGNATION(S)/VOLUME PER (GAL): —

WELL HEAD CONDITIONS CHECKLIST (CIRCLE YES OR NO - IF NO, ADD COMMENTS):

WELL SECURITY DEVICES OK (BOLLARDS, CHRISTY LID, CASING LID AND LOCK)?: (YES) NO

INSIDE OF WELL HEAD AND OUTER CASING DRY?: (YES) NO

WELL CASING OK?: (YES) NO

COMMENTS:

GENERAL:

WEATHER CONDITIONS: Clear

TEMPERATURE (SPECIFY °C OR °F): 75°F

PROBLEMS ENCOUNTERED DURING PURGING OR SAMPLING? NO

cc: Project Manager: Rus Purcell
Job File:
Other:

Groundwater Purge and Sample Form Date: 7-16-89 **Kennedy/Jenks Consultants**

PROJECT NAME: Boeing C-6 WELL NUMBER: WCC-65

PROJECT NUMBER: 994001.00 PERSONNEL: Shane Scrimshire

STATIC WATER LEVEL (FT): 64.87 MEASURING POINT DESCRIPTION: Top of Casing

WATER LEVEL MEASUREMENT METHOD: Electric Probe PURGE METHOD: Redi-Flow 2

TIME START PURGE: 1046 PURGE DEPTH (FT) 70'

TIME END PURGE: 1103

TIME SAMPLED: 1110

COMMENTS: First water from well is rust color.

WELL VOLUME CALCULATION (FILL IN BEFORE PURGING)	TOTAL DEPTH (FT)	-	DEPTH TO WATER (FT)	=	WATER COLUMN (FT)	X	MULTIPLIER FOR CASING DIAMETER (IN) 2	4	6	=	X 3 = 45 CASING VOLUME (GAL)
	88.55		64.87		23.68		0.16	0.64	1.44		15.15

TIME	1050 ~~1045~~	1053	1057	1103			
VOLUME PURGED (GAL)	5	16	30	48			
PURGE RATE (GPM)							
TEMPERATURE (°C)	75.5	74.8	74.9	74.9			
pH	7.49	7.05	7.05	7.00			
SPECIFIC CONDUCTIVITY (micromhos/cm) (uncorrected)	2100.	1870.	1789.	1765.			
DISSOLVED OXYGEN (mg/L)							
eH(MV)Pt-AgCl ref.							
TURBIDITY/COLOR	Rusty Brown	Rusty Brown	V. light Brown	→			
ODOR	slight solvent odor	V. slight solvent odor	→	→			
DEPTH OF PURGE INTAKE (FT)	70'	70'	70'	70'			
DEPTH TO WATER DURING PURGE (FT)							
NUMBER OF CASING VOLUMES REMOVED							
DEWATERED?							

Groundwater Purge and Sample Form Date: 7-16-99 **Kennedy/Jenks Consultants**

PROJECT NAME: Boeing C-6 WELL NUMBER: WCC-6S

PROJECT NUMBER: 994001.00 PERSONNEL: Shane Scrimshire

SAMPLE DATA:

TIME SAMPLED: 1110 COMMENTS:

DEPTH SAMPLED (FT): 70

SAMPLING EQUIPMENT: Redi-Flow 2

SAMPLE NO.	NO. OF CONTAINERS	CONTAINER TYPE	PRESERVATIVE	FIELD FILTRATION	VOLUME FILLED (ml or L)	TURBIDITY	COLOR	SHIPPED UNDER CHAIN-OF-CUSTODY AT 4°C?	ANALYSIS REQUEST (METHOD)	COMMENTS
WCC6S-GW-2	6	—	HCL HNO3	—	—	—	Clear	Yes	see COC	

PURGE WATER DISPOSAL NOTES:

TOTAL DISCHARGE (GAL): 48 COMMENTS:

DISPOSAL METHOD: Drum Storage

DRUM DESIGNATION(S)/VOLUME PER (GAL): —

WELL HEAD CONDITIONS CHECKLIST (CIRCLE YES OR NO - IF NO, ADD COMMENTS):

WELL SECURITY DEVICES OK (BOLLARDS, CHRISTY LID, CASING LID AND LOCK)?: (YES) NO

INSIDE OF WELL HEAD AND OUTER CASING DRY?: (YES) NO

WELL CASING OK?: (YES) NO

COMMENTS:

GENERAL:

WEATHER CONDITIONS: Clear

TEMPERATURE (SPECIFY °C OR °F): 75°F

PROBLEMS ENCOUNTERED DURING PURGING OR SAMPLING? NO

cc: Project Manager: Rus Purcell
Job File:
Other:

Groundwater Purge and Sample Form Date: 7-16-99 **Kennedy/Jenks Consultants**

PROJECT NAME: Boeing C-6 WELL NUMBER: IMW-2

PROJECT NUMBER: 994001.00 PERSONNEL: Shane Scrimshire

STATIC WATER LEVEL (FT): 64.48 MEASURING POINT DESCRIPTION: Top of Casing

WATER LEVEL MEASUREMENT METHOD: Electric Sounder PURGE METHOD: Redi-Flow 2

TIME START PURGE: 1213 PURGE DEPTH (FT) 75'

TIME END PURGE: 1221

TIME SAMPLED: 1225

COMMENTS:

1330 - Collected Rinsate Blank # 1 after decon.

WELL VOLUME CALCULATION (FILL IN BEFORE PURGING)	TOTAL DEPTH (FT)	-	DEPTH TO WATER (FT)	=	WATER COLUMN (FT)	X	MULTIPLIER FOR CASING DIAMETER (IN) 2	4	6	=	x 3 = 7.5 CASING VOLUME (GAL)
	79.77		64.48		15.29		0.16	0.64	1.44		2.44

TIME	1216	1219	1221				
VOLUME PURGED (GAL)	2.5	6	8				
PURGE RATE (GPM)							
TEMPERATURE (°C)	75.1	74.2	74.2				
pH	6.66	6.60	6.68				
SPECIFIC CONDUCTIVITY (micromhos/cm) (uncorrected)	2740.	~~266~~ 2650	2620.				
DISSOLVED OXYGEN (mg/L)							
eH(MV)Pt-AgCl ref.							
TURBIDITY/COLOR	Olive tan Cloudy	→	→				
ODOR	Solvent odor	→	→				
DEPTH OF PURGE INTAKE (FT)	75'	75'	75'				
DEPTH TO WATER DURING PURGE (FT)							
NUMBER OF CASING VOLUMES REMOVED							
DEWATERED?							

Groundwater Purge and Sample Form Date: 7-16-99 **Kennedy/Jenks Consultants**

PROJECT NAME: Boeing C-6 WELL NUMBER: THW-2

PROJECT NUMBER: 994001.00 PERSONNEL: Shane Scrimshire

SAMPLE DATA:

TIME SAMPLED: 1225 COMMENTS:

DEPTH SAMPLED (FT): 75

SAMPLING EQUIPMENT: Redi-Flow 2

SAMPLE NO.	NO. OF CONTAIN-ERS	CON-TAINER TYPE	PRESER-VATIVE	FIELD FILTRA-TION	VOLUME FILLED (ml or L)	TURBIDITY	COLOR	SHIPPED UNDER CHAIN-OF-CUS-TODY AT 4°C?	ANALYSIS REQUEST (METHOD)	COMMENTS
THW2-GW-2	6	—	HCL + HNO3	—	—	—	olive tan	Yes	See COC	

PURGE WATER DISPOSAL NOTES:

TOTAL DISCHARGE (GAL): 8 COMMENTS:

DISPOSAL METHOD: Drum Storage

DRUM DESIGNATION(S)/VOLUME PER (GAL): —

WELL HEAD CONDITIONS CHECKLIST (CIRCLE YES OR NO - IF NO, ADD COMMENTS):

WELL SECURITY DEVICES OK (BOLLARDS, CHRISTY LID, CASING LID AND LOCK)?: (YES) NO

INSIDE OF WELL HEAD AND OUTER CASING DRY?: (YES) NO

WELL CASING OK?: (YES) NO

COMMENTS:

GENERAL:

WEATHER CONDITIONS: Inside building #1

TEMPERATURE (SPECIFY °C OR °F): 75 °F

PROBLEMS ENCOUNTERED DURING PURGING OR SAMPLING? NO

cc: Project Manager: Rus Purcell
Job File:
Other:

Groundwater Purge and Sample Form Date: 7-16-99 **Kennedy/Jenks Consultants**

PROJECT NAME: Boeing C-6 WELL NUMBER: DAC-P1

PROJECT NUMBER: 994001.00 PERSONNEL: Shane Scrimshire

STATIC WATER LEVEL (FT): 71.57 MEASURING POINT DESCRIPTION: Top of Casing

WATER LEVEL MEASUREMENT METHOD: Elec. Probe PURGE METHOD: Redi-Flow 2

TIME START PURGE: 1401 PURGE DEPTH (FT) 85'

TIME END PURGE: 1428

TIME SAMPLED: 1435

COMMENTS: 1445 - Collected sample of Distilled Water - Field Blank #1

WELL VOLUME CALCULATION (FILL IN BEFORE PURGING)	TOTAL DEPTH (FT)	-	DEPTH TO WATER (FT)	=	WATER COLUMN (FT)	X	MULTIPLIER FOR CASING DIAMETER (IN) 2	4	6	=	x 3 = 48 CASING VOLUME (GAL)
	96.50		71.57		24.93		0.16	0.64	1.44		16

TIME	1404	1411	1419	1428			
VOLUME PURGED (GAL)	5	18	32	50			
PURGE RATE (GPM)							
TEMPERATURE (°C)	76.8	75.0	74.5	74.9			
pH	7.39	7.54	7.22	7.34			
SPECIFIC CONDUCTIVITY (micromhos/cm) (uncorrected)	2020.	1860.	1930	1990.			
DISSOLVED OXYGEN (mg/L)							
eH(MV)Pt-AgCl ref.							
TURBIDITY/COLOR	Clear	Clear	Clear	Clear			
ODOR	NO	NO	NO	NO			
DEPTH OF PURGE INTAKE (FT)	85'	85'	85'	85'			
DEPTH TO WATER DURING PURGE (FT)							
NUMBER OF CASING VOLUMES REMOVED							
DEWATERED?							

Groundwater Purge and Sample Form Date: 7-16-99 **Kennedy/Jenks Consultants**

PROJECT NAME: Boeing C-6 WELL NUMBER: DAC-P1

PROJECT NUMBER: 994001.00 PERSONNEL: Shane Scrimshire

SAMPLE DATA:

TIME SAMPLED: 1435 COMMENTS:

DEPTH SAMPLED (FT): 85

SAMPLING EQUIPMENT: Redi - Flow 2

SAMPLE NO.	NO. OF CONTAIN-ERS	CON-TAINER TYPE	PRESER-VATIVE	FIELD FILTRA-TION	VOLUME FILLED (ml or L)	TURBIDITY	COLOR	SHIPPED UNDER CHAIN-OF-CUS-TODY AT 4°C?	ANALYSIS REQUEST (METHOD)	COMMENTS
DAC P1 - GW-2	6	—	HCL + HNO3	—	—	—	Clear	Yes	See COC	
Field Blank-1	6	—	"	—	—	—	"	"	"	

PURGE WATER DISPOSAL NOTES:

TOTAL DISCHARGE (GAL): 50 COMMENTS:

DISPOSAL METHOD: Drum Storage

DRUM DESIGNATION(S)/VOLUME PER (GAL): —

WELL HEAD CONDITIONS CHECKLIST (CIRCLE YES OR NO - IF NO, ADD COMMENTS):

WELL SECURITY DEVICES OK (BOLLARDS, CHRISTY LID, CASING LID AND LOCK)?: YES NO

INSIDE OF WELL HEAD AND OUTER CASING DRY?: YES NO

WELL CASING OK?: YES NO

COMMENTS:

GENERAL:

WEATHER CONDITIONS: Clear

TEMPERATURE (SPECIFY °C OR °F): 80°F

PROBLEMS ENCOUNTERED DURING PURGING OR SAMPLING? NO

cc: Project Manager: Rus Purcell
Job File:
Other:

F-43.2 (5-89)

Groundwater Purge and Sample Form Date: 7-16 99 **Kennedy/Jenks Consultants**

PROJECT NAME: Boeing C-6 WELL NUMBER: TMW-16

PROJECT NUMBER: 994001.00 PERSONNEL: Shane Scrimshire

STATIC WATER LEVEL (FT): 63.54 MEASURING POINT DESCRIPTION: Top of Casing

WATER LEVEL MEASUREMENT METHOD: Electric sounder PURGE METHOD: Redi-Flow 2

TIME START PURGE: 1504 PURGE DEPTH (FT) 74'

TIME END PURGE: 1517

TIME SAMPLED: 1525

COMMENTS: Set depth with sounder then carefully lowered pump until it was about 1' above bottom.

WELL VOLUME CALCULATION (FILL IN BEFORE PURGING)	TOTAL DEPTH (FT)	-	DEPTH TO WATER (FT)	=	WATER COLUMN (FT)	X	MULTIPLIER FOR CASING DIAMETER (IN) 2	4	6	=	x3 = 5.5 CASING VOLUME (GAL)
	75.15		63.54		11.61		0.16	0.64	1.44		1.85

TIME	1505	1517					
VOLUME PURGED (GAL)	2 gal.	6 gal.					
PURGE RATE (GPM)							
TEMPERATURE (°C)	76.1	75.7					
pH	6.65	6.76					
SPECIFIC CONDUCTIVITY (micromhos/cm) (uncorrected)	2060	2060					
DISSOLVED OXYGEN (mg/L)							
eH(MV)Pt-AgCl ref.							
TURBIDITY/COLOR	olive tan, very silty	→					
ODOR	NO	NO					
DEPTH OF PURGE INTAKE (FT)	74'	74'					
DEPTH TO WATER DURING PURGE (FT)							
NUMBER OF CASING VOLUMES REMOVED							
DEWATERED?							

Groundwater Purge and Sample Form Date: 7-16-99 **Kennedy/Jenks Consultants**

PROJECT NAME: Boring C-6 WELL NUMBER: TMW-16

PROJECT NUMBER: 994001.00 PERSONNEL: Shane Scrimshire

SAMPLE DATA:

TIME SAMPLED: 1525 COMMENTS:

DEPTH SAMPLED (FT): 74'

SAMPLING EQUIPMENT: Redi-Flow 2

SAMPLE NO.	NO. OF CONTAIN-ERS	CON-TAINER TYPE	PRESER-VATIVE	FIELD FILTRA-TION	VOLUME FILLED (ml or L)	TURBIDITY	COLOR	SHIPPED UNDER CHAIN-OF-CUS-TODY AT 4°C?	ANALYSIS REQUEST (METHOD)	COMMENTS
TMW16-GW-2	6	—	HCL + HNO3	—	—	—	olive tan	YES	See COC	

PURGE WATER DISPOSAL NOTES:

TOTAL DISCHARGE (GAL): 6 COMMENTS:

DISPOSAL METHOD: Drum storage

DRUM DESIGNATION(S)/VOLUME PER (GAL): —

WELL HEAD CONDITIONS CHECKLIST (CIRCLE YES OR NO - IF NO, ADD COMMENTS):

WELL SECURITY DEVICES OK (BOLLARDS, CHRISTY LID, CASING LID AND LOCK)?: YES NO

INSIDE OF WELL HEAD AND OUTER CASING DRY?: YES NO

WELL CASING OK?: YES NO

COMMENTS:

GENERAL:

WEATHER CONDITIONS: Clear

TEMPERATURE (SPECIFY °C OR °F): 85°F

PROBLEMS ENCOUNTERED DURING PURGING OR SAMPLING? Pump stalled briefly twice due to silt in well.

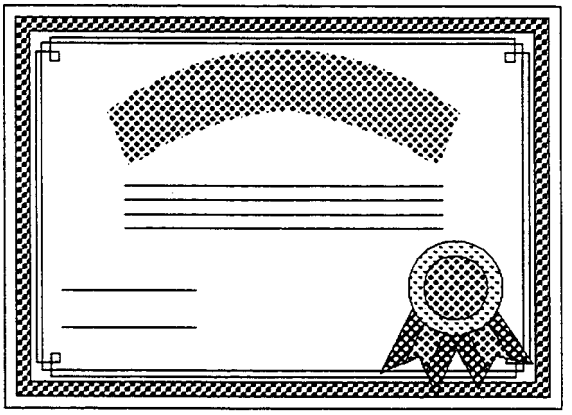
cc: Project Manager: Rus Purcell
Job File:
Other:

F-43.2 (5-89)

APPENDIX B

LABORATORY REPORTS AND CHAIN-OF-CUSTODY RECORDS

ORANGE COAST ANALYTICAL, INC.
3002 Dow, Suite 532, Tustin, CA 92780 (714) 832-0064 Fax (714) 832-0067
4620 E. Elwood, Suite 4, Phoenix, AZ 85040 (602) 736-0960 Fax (602) 736-0970



ORANGE COAST ANALYTICAL THANKS YOU FOR YOUR BUSINESS

THE FOLLOWING PAGES ARE THE ANALYSIS REPORT

ON THE SAMPLES YOU REQUESTED.

IF YOU HAVE ANY QUESTIONS REGARDING THIS REPORT

PLEASE FEEL FREE TO CONTACT US.

ORANGE COAST ANALYTICAL, INC.
3002 Dow, Suite 532, Tustin, CA 92780 (714) 832-0064 Fax (714) 832-0067
4620 E. Elwood, Suite 4, Phoenix, AZ 85040 (602) 736-0960 Fax (602) 736-0970

LABORATORY REPORT FORM

Laboratory Name: ORANGE COAST ANALYTICAL, INC.

Address: 3002 Dow Suite 532 Tustin, CA 92780

Telephone: (714) 832-0064

Laboratory Certification
(ELAP) No.: 1416 Expiration Date: 2001

Laboratory Director's Name (Print) : Mark Noorani

Client: Kennedy Jenks Consultants

Project No.: Boeing C-6

Project Name: 994001.00

Laboratory Reference: KJC 11007

Analytical Method: 8260, Metals, 8080 Pesticides, 8270, 8015m gas, 8015m diesel

Date Sampled: 07/13/99
Date Received: 07/13/99
Date Reported: 07/19/99

Sample Matrix: Water

Chain of Custody Received: Yes

Laboratory Director's Signature: Mark Noorani

Kennedy Jenks Consultants
ATTN: Mr. Rus Purcell
2151 Michelson Dr. Suite 100
Irvine, CA 92612

Client Project ID: Boeing C-6
Client Project #: 994001.00

SAMPLE DESCRIPTION (Water)

Laboratory Reference #: KJC 11007

Sampled:	---	07/13/99	07/13/99	07/13/99
Received:	---	07/13/99	07/13/99	07/13/99
Analyzed:	07/14/99	07/14/99	07/14/99	07/14/99
Reported:	07/19/99	07/19/99	07/19/99	07/19/99
Lab Sample I.D.	MB	99070194	99070195	99070196
Client Sample I.D.	---	WCC9S -GW-2	TMW-12 -GW-2	TMW-11 -GW-2

VOLATILE ORGANICS BY GC/MS (EPA 8260)

ANALYTE	***CAS NUMBER***	***DETECTION LIMIT***	***SAMPLE RESULTS***			
		µg/l	***µg/l***	***µg/l***	***µg/l***	***µg/l***
Benzene	71-43-2	0.5	<0.5	<0.5	<10	<1.3
Bromodichloromethane	75-27-4	1.0	<1.0	<1.0	<20	<2.5
Bromoform	75-25-2	0.5	<0.5	<0.5	<10	<1.3
Bromomethane	74-83-9	1.0	<1.0	<1.0	<20	<2.5
Carbon Disulfide	75-15-0	0.5	<0.5	<0.5	<10	<1.3
Carbon tetrachloride	56-23-5	0.5	<0.5	<0.5	<10	1.7
Chlorobenzene	108-90-7	0.5	<0.5	<0.5	<10	<1.3
Chlorodibromomethane	124-48-1	0.5	<0.5	<0.5	<10	<1.3
Chloroethane	75-00-3	0.5	<0.5	<0.5	<10	<1.3
2-Chloroethyl vinyl ether	110-75-8	0.5	<0.5	<0.5	<10	<1.3
Chloroform	67-66-3	0.5	<0.5	24	2,800	450
Chloromethane	74-87-3	0.5	<0.5	<0.5	<10	<1.3
1,1-Dichloroethane	75-34-3	0.5	<0.5	<0.5	<10	<1.3
1,2-Dichloroethane	107-06-2	0.5	<0.5	<0.5	<10	<1.3
1,1-Dichloroethene	75-35-4	0.5	<0.5	12	32	1.5
trans-1,2-Dichloroethene	156-60-5	0.5	<0.5	<0.5	<10	<1.3
1,2-Dichloropropane	78-87-5	0.5	<0.5	<0.5	<10	<1.3
cis-1,3-Dichloropropene	10061-01-5	0.5	<0.5	<0.5	<10	<1.3
trans-1,3-Dichloropropene	10061-02-6	0.5	<0.5	<0.5	<10	<1.3
Ethylbenzene	100-41-4	0.5	<0.5	<0.5	<10	<1.3
Methylene chloride	75-09-2	2.5	<2.5	<2.5	<50	<6.3
Styrene	100-42-5	0.5	<0.5	<0.5	<10	<1.3
1,1,2,2-Tetrachloroethane	79-34-5	0.5	<0.5	<0.5	<10	<1.3
Tetrachloroethene	127-18-4	0.5	<0.5	<0.5	<10	1.7
Toluene	108-88-3	0.5	<0.5	<0.5	<10	<1.3
1,1,1-Trichloroethane	71-55-6	0.5	<0.5	<0.5	<10	<1.3
1,1,2-Trichloroethane	79-00-5	0.5	<0.5	<0.5	<10	<1.3
Trichloroethene	79-01-6	0.5	<0.5	56	760	23
Trichlorofluoromethane	75-69-4	0.5	<0.5	<0.5	<10	<1.3
Vinyl acetate	108-05-4	1.0	<1.0	<1.0	<20	<2.5
Vinyl chloride	75-01-4	0.5	<0.5	<0.5	<10	<1.3
Total Xylenes	1330-20-7	1.0	<1.0	<1.0	<20	<2.5
Dichlorodifluoromethane	75-71-8	0.5	<0.5	1.3	<10	<1.3
cis-1,2-Dichloroethene	156-59-2	0.5	<0.5	2.2	<10	<1.3
2,2-Dichloropropane	594-20-7	0.5	<0.5	<0.5	<10	<1.3

INT-

Orange Coast Analytical, Inc

VOLATILE ORGANICS BY GC/MS (EPA 8260) (continued)

Laboratory Reference #: KJC 11007

Client Project ID: Boeing C-6
Client Project #: 994001

Sampled:	---	07/13/99	07/13/99	07/13/99
Received:	---	07/13/99	07/13/99	07/13/99
Analyzed:	07/14/99	07/14/99	07/14/99	07/14/99
Reported:	07/19/99	07/19/99	07/19/99	07/19/99

SAMPLE DESCRIPTION (Water)

Lab Sample I.D.	MB	99070194	99070195	99070196
Client Sample I.D.	---	WCC9S -GW-2	TMW-12 -GW-2	TMW-11 -GW-2

ANALYTE (CONT)	***CAS NUMBER***	***DETECTION LIMIT***	***SAMPLE RESULTS***			
		ug/l	***ug/l***	***ug/l***	***ug/l***	***ug/l***
Bromochloromethane	74-97-5	0.5	<0.5	<0.5	<10	<1.3
1,1-Dichloropropene	563-58-6	0.5	<0.5	<0.5	<10	<1.3
Dibromomethane	74-95-3	0.5	<0.5	<0.5	<10	<1.3
1,2-Dibromoethane	106-93-4	0.5	<0.5	<0.5	<10	<1.3
1,3-Dichloropropane	142-28-9	0.5	<0.5	<0.5	<10	<1.3
Isopropylbenzene	98-82-8	0.5	<0.5	<0.5	<10	<1.3
1,1,2,2-Tetrachloroethane	79-34-5	0.5	<0.5	<0.5	<10	<1.3
1,2,3-Trichloropropane	96-18-4	0.5	<0.5	<0.5	<10	<1.3
Bromobenzene	108-86-1	0.5	<0.5	<0.5	<10	<1.3
n-Propylbenzene	103-65-1	0.5	<0.5	<0.5	<10	<1.3
2-Chlorotoluene	95-49-8	0.5	<0.5	<0.5	<10	<1.3
1,3,5-Trimethylbenzene	108-67-8	0.5	<0.5	<0.5	<10	<1.3
4-Chlorotoluene	106-43-4	0.5	<0.5	<0.5	<10	<1.3
tert-Butylbenzene	98-06-6	0.5	<0.5	<0.5	<10	<1.3
1,2,4-Trimethylbenzene	95-63-6	0.5	<0.5	<0.5	<10	<1.3
sec-Butylbenzene	135-98-8	0.5	<0.5	<0.5	<10	<1.3
4-Isopropyltoluene	99-87-6	0.5	<0.5	<0.5	<10	<1.3
1,3-Dichlorobenzene	541-73-1	0.5	<0.5	<0.5	<10	<1.3
1,4-Dichlorobenzene	106-46-7	0.5	<0.5	<0.5	<10	<1.3
n-Butylbenzene	104-51-8	0.5	<0.5	<0.5	<10	<1.3
1,2-Dichlorobenzene	95-50-1	0.5	<0.5	<0.5	<10	<1.3
1-2-Dibromo-3-CPA	96-12-8	1.0	<1.0	<1.0	<20	<2.5
1,2,4-Trichlorobenzene	120-82-1	0.5	<0.5	<0.5	<10	<1.3
Hexachlorobutadiene	87-68-3	0.5	<0.5	<0.5	<10	<1.3
Naphthalene	91-20-3	0.5	<0.5	<0.5	<10	<1.3
1,2,3-Trichlorobenzene	87-61-6	0.5	<0.5	<0.5	<10	<1.3

SURROGATE RECOVERY	%RC	%RC	%RC	%RC
Dibromofluoromethane	86	89	98	97
Toluene-d8	94	94	94	93
4-Bromofluorobenzene	94	98	98	96

Kennedy Jenks Consultants
ATTN: Mr. Rus Purcell
2151 Michelson Dr. Suite 100
Irvine, CA 92612

Client Project ID: Boeing C-6
Client Project #: 994001.00

SAMPLE DESCRIPTION (Water)

Laboratory Reference #: KJC 11007

Sampled:	---	07/13/99	07/13/99
Received:	---	07/13/99	07/13/99
Analyzed:		07/14/99	07/14/99
Reported:		07/19/99	07/19/99
Lab Sample I.D.		99070197	99070198
Client Sample I.D.		TMW-10 -GW-2	Trip Blank

VOLATILE ORGANICS BY GC/MS (EPA 8260)

ANALYTE	***CAS NUMBER***	***DETECTION LIMIT µg/l***	***SAMPLE RESULTS µg/l***	***µg/l***
Benzene	71-43-2	0.5	<0.5	<0.5
Bromodichloromethane	75-27-4	1.0	<1.0	<1.0
Bromoform	75-25-2	0.5	<0.5	<0.5
Bromomethane	74-83-9	1.0	<1.0	<1.0
Carbon Disulfide	75-15-0	0.5	<0.5	<0.5
Carbon tetrachloride	56-23-5	0.5	<0.5	<0.5
Chlorobenzene	108-90-7	0.5	<0.5	<0.5
Chlorodibromomethane	124-48-1	0.5	<0.5	<0.5
Chloroethane	75-00-3	0.5	<0.5	<0.5
2-Chloroethyl vinyl ether	110-75-8	0.5	<0.5	<0.5
Chloroform	67-66-3	0.5	4.9	<0.5
Chloromethane	74-87-3	0.5	<0.5	<0.5
1,1-Dichloroethane	75-34-3	0.5	<0.5	<0.5
1,2-Dichloroethane	107-06-2	0.5	<0.5	<0.5
1,1-Dichloroethene	75-35-4	0.5	0.58	<0.5
trans-1,2-Dichloroethene	156-60-5	0.5	<0.5	<0.5
1,2-Dichloropropane	78-87-5	0.5	<0.5	<0.5
cis-1,3-Dichloropropene	10061-01-5	0.5	<0.5	<0.5
trans-1,3-Dichloropropene	10061-02-6	0.5	<0.5	<0.5
Ethylbenzene	100-41-4	0.5	<0.5	<0.5
Methylene chloride	75-09-2	2.5	<2.5	<2.5
Styrene	100-42-5	0.5	<0.5	<0.5
1,1,2,2-Tetrachloroethane	79-34-5	0.5	<0.5	<0.5
Tetrachloroethene	127-18-4	0.5	1.3	<0.5
Toluene	108-88-3	0.5	<0.5	<0.5
1,1,1-Trichloroethane	71-55-6	0.5	<0.5	<0.5
1,1,2-Trichloroethane	79-00-5	0.5	<0.5	<0.5
Trichloroethene	79-01-6	0.5	4.4	<0.5
Trichlorofluoromethane	75-69-4	0.5	0.8	<0.5
Vinyl acetate	108-05-4	1.0	<1.0	<1.0
Vinyl chloride	75-01-4	0.5	<0.5	<0.5
Total Xylenes	1330-20-7	1.0	<1.0	<1.0
Dichlorodifluoromethane	75-71-8	0.5	2.3	<0.5
cis-1,2-Dichloroethene	156-59-2	0.5	<0.5	<0.5
2,2-Dichloropropane	594-20-7	0.5	<0.5	<0.5

VOLATILE ORGANICS BY GC/MS (EPA 8260) (continued)

Laboratory Reference #: KJC 11007

Client Project ID: Boeing C-6
Client Project #: 994001

Sampled:	07/13/99	07/13/99
Received:	07/13/99	07/13/99
Analyzed:	07/14/99	07/14/99
Reported:	07/19/99	07/19/99
	SAMPLE DESCRIPTION (Water)	
Lab Sample I.D.	99070197	99070198
Client Sample I.D.	TMW-10 -GW-2	Trip Blank 0

ANALYTE (CONT)	***CAS NUMBER***	***DETECTION LIMIT ug/l***	***SAMPLE RESULTS*** ***ug/l***	***ug/l***
Bromochloromethane	74-97-5	0.5	<0.5	<0.5
1,1-Dichloropropene	563-58-6	0.5	<0.5	<0.5
Dibromomethane	74-95-3	0.5	<0.5	<0.5
1,2-Dibromoethane	106-93-4	0.5	<0.5	<0.5
1,3-Dichloropropane	142-28-9	0.5	<0.5	<0.5
Isopropylbenzene	98-82-8	0.5	<0.5	<0.5
1,1,2,2-Tetrachloroethane	79-34-5	0.5	<0.5	<0.5
1,2,3-Trichloropropane	96-18-4	0.5	<0.5	<0.5
Bromobenzene	108-86-1	0.5	<0.5	<0.5
n-Propylbenzene	103-65-1	0.5	<0.5	<0.5
2-Chlorotoluene	95-49-8	0.5	<0.5	<0.5
1,3,5-Trimethylbenzene	108-67-8	0.5	<0.5	<0.5
4-Chlorotoluene	106-43-4	0.5	<0.5	<0.5
tert-Butylbenzene	98-06-6	0.5	<0.5	<0.5
1,2,4-Trimethylbenzene	95-63-6	0.5	<0.5	<0.5
sec-Butylbenzene	135-98-8	0.5	<0.5	<0.5
4-Isopropyltoluene	99-87-6	0.5	<0.5	<0.5
1,3-Dichlorobenzene	541-73-1	0.5	<0.5	<0.5
1,4-Dichlorobenzene	106-46-7	0.5	<0.5	<0.5
n-Butylbenzene	104-51-8	0.5	<0.5	<0.5
1,2-Dichlorobenzene	95-50-1	0.5	<0.5	<0.5
1-2-Dibromo-3-CPA	96-12-8	1.0	<1.0	<1.0
1,2,4-Trichlorobenzene	120-82-1	0.5	<0.5	<0.5
Hexachlorobutadiene	87-68-3	0.5	<0.5	<0.5
Naphthalene	91-20-3	0.5	<0.5	<0.5
1,2,3-Trichlorobenzene	87-61-6	0.5	<0.5	<0.5

SURROGATE RECOVERY	%RC	%RC
Dibromofluoromethane	94	87
Toluene-d8	93	92
4-Bromofluorobenzene	97	97

Kennedy Jenks Consultants
ATTN: Mr. Rus Purcell
2151 Michelson Dr. Suite 100
Irvine, CA 92612

Client Project ID: Boeing C-6
Client Project #: 994001.00

SAMPLE DESCRIPTION (Water)

Laboratory Reference #: KJC 11007

Sampled:	---	07/13/99	07/13/99
Received:	---	07/13/99	07/13/99
Analyzed:	07/15/99	07/15/99	07/15/99
Reported:	07/19/99	07/19/99	07/19/99
Lab Sample I.D.	MB	99070194	99070195
Client Sample I.D.	---	WCC9S -GW-2	TMW-12 -GW-2

SEMI VOLATILE ORGANICS BY GC/MS (EPA 8270)

ANALYTE	***CAS NUMBER***	***DETECTION LIMIT***		***SAMPLE RESULTS***	
		µg/l	***µg/l***	***µg/l***	***µg/l***
Acenaphthene	83-32-9	5.0	<5.0	<5.0	<5.0
Acenaphthylene	208-96-8	5.0	<5.0	<5.0	<5.0
Aniline	62-53-3	5.0	<5.0	<5.0	<5.0
Anthracene	120-12-7	5.0	<5.0	<5.0	<5.0
Benzoic acid	65-85-0	50	<50	<50	<50
Benzo (a) anthracene	56-55-3	5.0	<5.0	<5.0	<5.0
Benzo (b) fluoranthene	205-99-2	25	<25	<25	<25
Benzo (k) fluoranthene	207-08-9	25	<25	<25	<25
Benzo (g,h,i) perylene	191-24-2	25	<25	<25	<25
Benzo (a) pyrene	50-32-8	25	<25	<25	<25
Benzyl alcohol	100-51-6	5.0	<5.0	<5.0	<5.0
bis-(2-chloroethoxy) methane	111-91-1	5.0	<5.0	<5.0	<5.0
bis-(2-chloroethyl) ether	111-44-4	5.0	<5.0	<5.0	<5.0
bis-(2-chloroisopropyl) ether	108-60-1	5.0	<5.0	<5.0	<5.0
bis-(2-ethylhexyl) phthalate	117-81-7	3.0	<3.0	<3.0	<3.0
4-Bromophenyl phenyl ether	101-55-3	5.0	<5.0	<5.0	<5.0
Butyl benzyl phthalate	85-68-7	5.0	<5.0	<5.0	<5.0
4-Chloroaniline	106-47-8	5.0	<5.0	<5.0	<5.0
2-Chloronaphthalene	91-58-7	5.0	<5.0	<5.0	<5.0
4-Chloro-3-methylphenol	59-50-7	5.0	<5.0	<5.0	<5.0
2-Chlorophenol	95-57-8	5.0	<5.0	<5.0	<5.0
4-Chlorophenyl phenyl ether	7005-72-3	5.0	<5.0	<5.0	<5.0
Chrysene	218-01-9	5.0	<5.0	<5.0	<5.0
Dibenz (a,h) anthracene	53-70-3	25	<25	<25	<25
Dibenzofuran	132-64-9	5.0	<5.0	<5.0	<5.0
Di-n-butyl phthalate	84-74-2	5.0	<5.0	<5.0	<5.0
1,3-Dichlorobenzene	541-73-1	5.0	<5.0	<5.0	<5.0
1,4-Dichlorobenzene	106-46-7	5.0	<5.0	<5.0	<5.0
1,2-Dichlorobenzene	95-50-1	5.0	<5.0	<5.0	<5.0
3,3-Dichlorobenzidine	91-94-1	5.0	<5.0	<5.0	<5.0
2,4-Dichlorophenol	120-83-2	5.0	<5.0	<5.0	<5.0
Diethyl phthalate	84-66-2	5.0	<5.0	<5.0	<5.0
2,4-Dimethylphenol	105-67-9	5.0	<5.0	<5.0	<5.0
Dimethyl phthalate	131-11-3	5.0	<5.0	<5.0	<5.0
4,6-Dinitro-2-methylphenol	534-52-1	50	<50	<50	<50

SEMI-VOLATILE ORGANICS BY GC/MS (EPA 8270) (continued)

Laboratory Reference #: KJC 11007

Client Project ID: Boeing C-6
Client Project #: 994001

Sampled:	---	07/13/99	07/13/99
Received:	---	07/13/99	07/13/99
Analyzed:	07/15/99	07/15/99	07/15/99
Reported:	07/19/99	07/19/99	07/19/99

SAMPLE DESCRIPTION (Water)

Lab Sample I.D.	MB	99070194	99070195
Client Sample I.D.	---	WCC9S -GW-2	TMW-12 -GW-2

ANALYTE (CONT)	***CAS NUMBER***	***DETECTION LIMIT***	***SAMPLE RESULTS***		
		ug/l	***ug/l***	***ug/l***	***ug/l***
2,4-Dinitrophenol	51-28-5	50	<50	<50	<50
2,4-Dinitrotoluene	121-14-2	5.0	<5.0	<5.0	<5.0
2,6-Dinitrotoluene	606-20-2	5.0	<5.0	<5.0	<5.0
Di-n-octyl phthalate	117-84-0	25	<25	<25	<25
Fluoranthene	206-44-0	5.0	<5.0	<5.0	<5.0
Fluorene	86-73-7	5.0	<5.0	<5.0	<5.0
Hexachlorobenzene	118-74-1	5.0	<5.0	<5.0	<5.0
Hexachlorobutadiene	87-68-3	5.0	<5.0	<5.0	<5.0
Hexachlorocyclopentadiene	77-47-4	5.0	<5.0	<5.0	<5.0
Hexachloroethane	67-72-1	5.0	<5.0	<5.0	<5.0
Indeno (1,2,3-cd) pyrene	193-39-5	25	<25	<25	<25
Isophorone	78-59-1	5.0	<5.0	<5.0	<5.0
2-Methylnaphthalene	91-57-6	5.0	<5.0	<5.0	<5.0
2-Methylphenol	95-48-7	5.0	<5.0	<5.0	<5.0
4-Methylphenol	106-44-5	5.0	<5.0	<5.0	<5.0
Naphthalene	91-20-3	5.0	<5.0	<5.0	<5.0
2-Nitroaniline	88-74-4	50	<50	<50	<50
3-Nitroaniline	99-09-2	50	<50	<50	<50
4-Nitroaniline	100-01-6	50	<50	<50	<50
Nitrobenzene	98-95-3	5.0	<5.0	<5.0	<5.0
2-Nitrophenol	88-75-5	5.0	<5.0	<5.0	<5.0
4-Nitrophenol	100-02-7	50	<50	<50	<50
n-Nitrosodiphenylamine	86-30-6	5.0	<5.0	<5.0	<5.0
n-Nitrosodipropylamine	621-64-7	5.0	<5.0	<5.0	<5.0
n-Nitrosodimethylamine	62-75-9	5.0	<5.0	<5.0	<5.0
Pentachlorophenol	87-86-5	50	<50	<50	<50
Phenanthrene	85-01-8	5.0	<5.0	<5.0	<5.0
Phenol	108-95-2	5.0	<5.0	<5.0	<5.0
Pyrene	129-00-0	5.0	<5.0	<5.0	<5.0
1,2,4-Trichlorobenzene	120-82-1	5.0	<5.0	<5.0	<5.0
2,4,5-trichlorophenol	95-95-4	5.0	<5.0	<5.0	<5.0
2,4,6-Trichlorophenol	88-06-2	5.0	<5.0	<5.0	<5.0

Kennedy Jenks Consultants
ATTN: Mr. Rus Purcell
2151 Michelson Dr. Suite 100
Irvine, CA 92612

Client Project ID: Boeing C-6
Client Project #: 994001.00

SAMPLE DESCRIPTION (Water)

Laboratory Reference #: KJC 11007

Sampled:	07/13/99	07/13/99
Received:	07/13/99	07/13/99
Analyzed:	07/15/99	07/15/99
Reported:	07/19/99	07/19/99
Lab Sample I.D.	99070196	99070197
Client Sample I.D.	TMW-11 -GW-2	TMW-10 -GW-2

SEMI VOLATILE ORGANICS BY GC/MS (EPA 8270)

ANALYTE	***CAS NUMBER***	***DETECTION LIMIT µg/l***	***SAMPLE RESULTS µg/l***	***µg/l***
Acenaphthene	83-32-9	5.0	<5.0	<5.0
Acenaphthylene	208-96-8	5.0	<5.0	<5.0
Aniline	62-53-3	5.0	<5.0	<5.0
Anthracene	120-12-7	5.0	<5.0	<5.0
Benzoic acid	65-85-0	50	<50	<50
Benzo (a) anthracene	56-55-3	5.0	<5.0	<5.0
Benzo (b) fluoranthene	205-99-2	25	<25	<25
Benzo (k) fluoranthene	207-08-9	25	<25	<25
Benzo (g,h,i) perylene	191-24-2	25	<25	<25
Benzo (a) pyrene	50-32-8	25	<25	<25
Benzyl alcohol	100-51-6	5.0	<5.0	<5.0
bis-(2-chloroethoxy) methane	111-91-1	5.0	<5.0	<5.0
bis-(2-chloroethyl) ether	111-44-4	5.0	<5.0	<5.0
bis-(2-chloroisopropyl) ether	108-60-1	5.0	<5.0	<5.0
bis-(2-ethylhexyl) phthalate	117-81-7	3.0	<3.0	<3.0
4-Bromophenyl phenyl ether	101-55-3	5.0	<5.0	<5.0
Butyl benzyl phthalate	85-68-7	5.0	<5.0	<5.0
4-Chloroaniline	106-47-8	5.0	<5.0	<5.0
2-Chloronaphthalene	91-58-7	5.0	<5.0	<5.0
4-Chloro-3-methylphenol	59-50-7	5.0	<5.0	<5.0
2-Chlorophenol	95-57-8	5.0	<5.0	<5.0
4-Chlorophenyl phenyl ether	7005-72-3	5.0	<5.0	<5.0
Chrysene	218-01-9	5.0	<5.0	<5.0
Dibenz (a,h) anthracene	53-70-3	25	<25	<25
Dibenzofuran	132-64-9	5.0	<5.0	<5.0
Di-n-butyl phthalate	84-74-2	5.0	<5.0	<5.0
1,3-Dichlorobenzene	541-73-1	5.0	<5.0	<5.0
1,4-Dichlorobenzene	106-46-7	5.0	<5.0	<5.0
1,2-Dichlorobenzene	95-50-1	5.0	<5.0	<5.0
3,3-Dichlorobenzidine	91-94-1	5.0	<5.0	<5.0
2,4-Dichlorophenol	120-83-2	5.0	<5.0	<5.0
Diethyl phthalate	84-66-2	5.0	<5.0	<5.0
2,4-Dimethylphenol	105-67-9	5.0	<5.0	<5.0
Dimethyl phthalate	131-11-3	5.0	<5.0	<5.0
4,6-Dinitro-2-methylphenol	534-52-1	50	<50	<50

SEMI-VOLATILE ORGANICS BY GC/MS (EPA 8270) (continued)

Laboratory Reference #: KJC 11007

Client Project ID: Boeing C-6
Client Project #: 994001

Sampled:	07/13/99	07/13/99
Received:	07/13/99	07/13/99
Analyzed:	07/15/99	07/15/99
Reported:	07/19/99	07/19/99
	SAMPLE DESCRIPTION (Water)	
Lab Sample I.D.	99070196	99070197
Client Sample I.D.	TMW-11 -GW-2	TMW-10 -GW-2

ANALYTE (CONT)	***CAS NUMBER***	***DETECTION LIMIT***		***SAMPLE RESULTS***
		ug/l	***ug/l***	***ug/l***
2,4-Dinitrophenol	51-28-5	50	<50	<50
2,4-Dinitrotoluene	121-14-2	5.0	<5.0	<5.0
2,6-Dinitrotoluene	606-20-2	5.0	<5.0	<5.0
Di-n-octyl phthalate	117-84-0	25	<25	<25
Fluoranthene	206-44-0	5.0	<5.0	<5.0
Fluorene	86-73-7	5.0	<5.0	<5.0
Hexachlorobenzene	118-74-1	5.0	<5.0	<5.0
Hexachlorobutadiene	87-68-3	5.0	<5.0	<5.0
Hexachlorocyclopentadiene	77-47-4	5.0	<5.0	<5.0
Hexachloroethane	67-72-1	5.0	<5.0	<5.0
Indeno (1,2,3-cd) pyrene	193-39-5	25	<25	<25
Isophorone	78-59-1	5.0	<5.0	<5.0
2-Methylnaphthalene	91-57-6	5.0	<5.0	<5.0
2-Methylphenol	95-48-7	5.0	<5.0	<5.0
4-Methylphenol	106-44-5	5.0	<5.0	<5.0
Naphthalene	91-20-3	5.0	<5.0	<5.0
2-Nitroaniline	88-74-4	50	<50	<50
3-Nitroaniline	99-09-2	50	<50	<50
4-Nitroaniline	100-01-6	50	<50	<50
Nitrobenzene	98-95-3	5.0	<5.0	<5.0
2-Nitrophenol	88-75-5	5.0	<5.0	<5.0
4-Nitrophenol	100-02-7	50	<50	<50
n-Nitrosodiphenylamine	86-30-6	5.0	<5.0	<5.0
n-Nitrosodipropylamine	621-64-7	5.0	<5.0	<5.0
n-Nitrosodimethylamine	62-75-9	5.0	<5.0	<5.0
Pentachlorophenol	87-86-5	50	<50	<50
Phenanthrene	85-01-8	5.0	<5.0	<5.0
Phenol	108-95-2	5.0	<5.0	<5.0
Pyrene	129-00-0	5.0	<5.0	<5.0
1,2,4-Trichlorobenzene	120-82-1	5.0	<5.0	<5.0
2,4,5-trichlorophenol	95-95-4	5.0	<5.0	<5.0
2,4,6-Trichlorophenol	88-06-2	5.0	<5.0	<5.0

Kennedy Jenks Consultants
ATTN: Mr. Rus Purcell
2151 Michelson Dr. Suite 100
Irvine, CA 92612

Client Project ID: Boeing C-6
Client Project #: 994001.00

Sampled: 07/13/99
Received: 07/13/99
Analyzed: 07/16/99
Reported: 07/19/99

Sample Description: Water,

Laboratory Reference #: KJC 11007

DIESEL (EPA 8015m)

LABORATORY SAMPLE NUMBER	***CLIENT SAMPLE NUMBER***	***SAMPLE RESULTS mg/l***
99070194	WCC9S-GW-2	N.D.
99070195	TMW12-GW-2	N.D.
99070196	TMW11-GW-2	N.D.
99070197	TMW-10-GW-2	N.D.
Detection Limit:		0.5

Extractable Fuel Hydrocarbons are quantitated against a diesel standard. Hydrocarbons detected by this method range from C7 to C30. Analyte reported as N.D. was not present above the stated limit of detection.

INT_____

Orange Coast Analytical, Inc.

Kennedy Jenks Consultants
ATTN: Mr. Rus Purcell
2151 Michelson Dr. Suite 100
Irvine, CA 92612

Client Project ID: Boeing C-6
Client Project #: 994001.00

Sample Description: Water,

Laboratory Reference #: KJC 11007

Sampled: 07/13/99
Received: 07/13/99
Analyzed: 07/14/99
Reported: 07/19/99

VOLATILE FUEL HYDROCARBONS (EPA 8015m)

LABORATORY SAMPLE NUMBER	***CLIENT SAMPLE NUMBER***	***SAMPLE RESULTS µg/l***
99070194	WCC9S-GW-2	N.D.
99070195	TMW12-GW-2	200
99070196	TMW11-GW-2	N.D.
99070197	TMW-10-GW-2	N.D.
Detection Limit:		50

Volatile Fuel Hydrocarbons are quantitated against a gasoline standard. Hydrocarbons detected by this method range from C6 to C14. Analyte reported as N.D. was not present above the stated limit of detections.

INT m.n.

Orange Coast Analytical, Inc.

Kennedy Jenks Consultants
ATTN: Mr. Rus Purcell
2151 Michelson Dr. Suite 100
Irvine, CA 92612

Client Project ID: Boeing C-6
Client Project #: 994001.00

SAMPLE DESCRIPTION (Water)

Laboratory Reference #: KJC 11007

Sampled:	---	07/13/99	07/13/99
Received:	---	07/13/99	07/13/99
Analyzed:	07/15/99	07/15/99	07/15/99
Reported:	07/19/99	07/19/99	07/19/99
Lab Sample I.D.	MB	99070194	99070195
Client Sample I.D.	---	WCC9S -GW-2	TMW-12 -GW-2

ORGANOCHLORINATED PESTICIDES (EPA 8081)

ANALYTE	***CAS NUMBER***	***DETECTION LIMIT µg/l***	***SAMPLE RESULTS***		
			µg/l	***µg/l***	***µg/l***
Aldrin	309-00-2	0.1	<0.1	<0.1	<0.1
alpha-BHC	319-84-6	0.2	<0.2	<0.2	<0.2
beta-BHC	319-85-7	0.2	<0.2	<0.2	<0.2
delta-BHC	319-86-8	0.2	<0.2	<0.2	<0.2
gamma-BHC (Lindane)	58-89-9	0.2	<0.2	<0.2	<0.2
Chlordane	57-74-9	0.2	<0.2	<0.2	<0.2
4,4'-DDD	72-54-8	0.5	<0.5	<0.5	<0.5
4,4'-DDE	72-55-9	0.1	<0.1	<0.1	<0.1
4,4'-DDT	50-29-3	0.1	<0.1	<0.1	<0.1
Dieldrin	60-57-1	0.5	<0.5	<0.5	<0.5
Endosulfan I	959-98-8	0.5	<0.5	<0.5	<0.5
Endosulfan II	33212-65-9	0.5	<0.5	<0.5	<0.5
Endosulfan sulfate	1031-07-8	0.5	<0.5	<0.5	<0.5
Endrin	72-20-8	0.02	<0.02	<0.02	<0.02
Endrin aldehyde	7421-93-4	0.2	<0.2	<0.2	<0.2
Heptachlor	76-44-8	0.1	<0.1	<0.1	<0.1
Heptachlor epoxide	1024-57-3	0.2	<0.2	<0.2	<0.2
Methoxychlor	72-43-5	9.0	<9.0	<9.0	<9.0
Toxaphene	8001-35-2	0.5	<0.5	<0.5	<0.5

Kennedy Jenks Consultants
ATTN: Mr. Rus Purcell
2151 Michelson Dr. Suite 100
Irvine, CA 92612

Client Project ID: Boeing C-6
Client Project #: 994001.00

SAMPLE DESCRIPTION (Water)

Laboratory Reference #: KJC 11007

Sampled:	07/13/99	07/13/99
Received:	07/13/99	07/13/99
Analyzed:	07/15/99	07/15/99
Reported:	07/19/99	07/19/99
Lab Sample I.D.	99070196	99070197
Client Sample I.D.	TMW-11 -GW-2	TMW-10 -GW-2

ORGANOCHLORINATED PESTICIDES (EPA 8081)

ANALYTE	***CAS NUMBER***	***DETECTION LIMIT µg/l***	***SAMPLE RESULTS µg/l***	***µg/l***
Aldrin	309-00-2	0.1	<0.1	<0.1
alpha-BHC	319-84-6	0.2	<0.2	<0.2
beta-BHC	319-85-7	0.2	<0.2	<0.2
delta-BHC	319-86-8	0.2	<0.2	<0.2
gamma-BHC (Lindane)	58-89-9	0.2	<0.2	<0.2
Chlordane	57-74-9	0.2	<0.2	<0.2
4,4'-DDD	72-54-8	0.5	<0.5	<0.5
4,4'-DDE	72-55-9	0.1	<0.1	<0.1
4,4'-DDT	50-29-3	0.1	<0.1	<0.1
Dieldrin	60-57-1	0.5	<0.5	<0.5
Endosulfan I	959-98-8	0.5	<0.5	<0.5
Endosulfan II	33212-65-9	0.5	<0.5	<0.5
Endosulfan sulfate	1031-07-8	0.5	<0.5	<0.5
Endrin	72-20-8	0.02	<0.02	<0.02
Endrin aldehyde	7421-93-4	0.2	<0.2	<0.2
Heptachlor	76-44-8	0.1	<0.1	<0.1
Heptachlor epoxide	1024-57-3	0.2	<0.2	<0.2
Methoxychlor	72-43-5	9.0	<9.0	<9.0
Toxaphene	8001-35-2	0.5	<0.5	<0.5

Kennedy Jenks Consultants
ATTN: Mr. Rus Purcell
2151 Michelson Dr. Suite 100
Irvine, CA 92612

Client Project ID: Boeing C-6
Client Project #: 994001.00

SAMPLE DESCRIPTION (Water)

Laboratory Reference #: KJC 11007

Sampled:	---	07/13/99	07/13/99
Received:	---	07/13/99	07/13/99
Reported:	07/19/99	07/19/99	07/19/99
Lab Sample I.D.	MB	99070194	99070195
Client Sample I.D.	---	WCC9S -GW-2	TMW-12 -GW-2

CCR METALS

ANALYTE	***DATE TESTED***	***EPA METHOD***	***DETECTION LIMIT mg/l***	***SAMPLE RESULTS***		
				mg/l	***mg/l***	***mg/l***
Antimony	07/14/99	6010	0.1	<0.1	<0.1	<0.1
Arsenic	07/14/99	6010	0.1	<0.1	<0.1	<0.1
Barium	07/14/99	6010	0.01	<0.01	0.19	0.29
Beryllium	07/14/99	6010	0.01	<0.01	<0.01	<0.01
Cadmium	07/14/99	6010	0.01	<0.01	<0.01	<0.01
Chromium (VI)	07/14/99	7196	0.01	<0.01	<0.01	<0.01
Chromium (Total)	07/14/99	6010	0.01	<0.01	<0.01	<0.01
Cobalt	07/14/99	6010	0.01	<0.01	<0.01	<0.01
Copper	07/14/99	6010	0.01	<0.01	<0.01	<0.01
Lead	07/14/99	6010	0.05	<0.05	<0.05	<0.05
Mercury	07/15/99	7471	0.001	<0.001	<0.001	<0.001
Molybdenum	07/14/99	6010	0.05	<0.05	<0.05	<0.05
Nickel	07/14/99	6010	0.01	<0.01	<0.01	<0.01
Selenium	07/14/99	6010	0.1	<0.1	<0.1	<0.1
Silver	07/14/99	6010	0.01	<0.01	<0.01	<0.01
Thallium	07/14/99	6010	0.1	<0.1	<0.1	<0.1
Vanadium	07/14/99	6010	0.01	<0.01	<0.01	<0.01
Zinc	07/14/99	6010	0.01	<0.01	0.025	0.026

Kennedy Jenks Consultants
ATTN: Mr. Rus Purcell
2151 Michelson Dr. Suite 100
Irvine, CA 92612

Client Project ID: Boeing C-6
Client Project #: 994001.00

SAMPLE DESCRIPTION (Water)

Sampled:	---	07/13/99
Received:	---	07/13/99
Reported:	07/19/99	07/19/99

Laboratory Reference #: KJC 11007

Lab Sample I.D.	99070196	99070197
Client Sample I.D.	TMW-11 -GW-2	TMW-10 -GW-2

CCR METALS

ANALYTE	***DATE TESTED***	***EPA METHOD***	***DETECTION LIMIT mg/l***	***SAMPLE RESULTS***	
				mg/l	***mg/l***
Antimony	07/14/99	6010	0.1	<0.1	<0.1
Arsenic	07/14/99	6010	0.1	<0.1	<0.1
Barium	07/14/99	6010	0.01	0.39	0.16
Beryllium	07/14/99	6010	0.01	<0.01	<0.01
Cadmium	07/14/99	6010	0.01	<0.01	<0.01
Chromium (VI)	07/14/99	7196	0.01	<0.01	<0.01
Chromium (Total)	07/14/99	6010	0.01	0.014	0.019
Cobalt	07/14/99	6010	0.01	<0.01	<0.01
Copper	07/14/99	6010	0.01	<0.01	<0.01
Lead	07/14/99	6010	0.05	<0.05	<0.05
Mercury	07/15/99	7471	0.001	<0.001	<0.001
Molybdenum	07/14/99	6010	0.05	<0.05	<0.05
Nickel	07/14/99	6010	0.01	<0.01	<0.01
Selenium	07/14/99	6010	0.1	<0.1	<0.1
Silver	07/14/99	6010	0.01	<0.01	<0.01
Thallium	07/14/99	6010	0.1	<0.1	<0.1
Vanadium	07/14/99	6010	0.01	<0.01	<0.01
Zinc	07/14/99	6010	0.01	0.023	0.024

QC DATA REPORT

Analysis : Volatile Organics by GC/MS (EPA 8260)

Date of Analysis : 07/14/99
Laboratory Sample No : 99070197
Laboratory Reference No : KJC 11007

Analyte	R1 (ppb)	SP (ppb)	MS (ppb)	MSD (ppb)	PR1 %	PR2 %	RPD %
Benzene	0.0	20	19	19	95	95	0
1,1-Dichloroethene	0.58	20	21	22	102	107	5
Trichloroethene	4.4	20	23	23	93	93	0
Toluene	0.0	20	17	17	85	85	0
Chlorobenzene	0.0	20	19	19	95	95	0

Definition of Terms :

R1	Results Of First Analysis
SP	Spike Concentration Added to Sample
MS	Matrix Spike Results
MSD	Matrix Spike Duplicate Results
PR1	Percent Recovery Of MS: {(MS-R1) / SP} x100
PR2	Percent Recovery Of MSD: {(MSD-R1) / SP} x 100
RPD	Relative Percent Difference: {(MS-MSD) / (MS+MSD)} x 100 x 2

INT m.n.

Orange Coast Analytical, Inc.

QC DATA REPORT

Analysis : Semi-Volatile Organics by GC/MS (EPA 8270)

Date of Analysis : 07/15/99
Laboratory Sample No : OCA100
Laboratory Reference No : KJC 11007

Analyte	R1 (ng)	SP (ng)	MS (ng)	MSD (ng)	PR1 %	PR2 %	RPD %
1,4-Dichlorobenzene	0.0	50	32	33	64	66	3
n-Nitroso-di-n-propylamine	0.0	50	38	40	76	80	5
1,2,4-Trichlorobenzene	0.0	50	34	35	68	70	3
Acenaphthene	0.0	50	37	38	74	76	3
Pyrene	0.0	50	42	43	84	86	2
Pentachlorophenol	0.0	100	84	85	84	85	1
4-Chloro-3-Methylphenol	0.0	100	66	56	66	56	16
2-Chlorophenol	0.0	100	70	68	70	68	3
Phenol	0.0	100	31	26	31	26	18

Definition of Terms :

R1	Results Of First Analysis
SP	Spike Concentration Added to Sample
MS	Matrix Spike Results
MSD	Matrix Spike Duplicate Results
PR1	Percent Recovery Of MS: {(MS-R1) / SP} x100
PR2	Percent Recovery Of MSD: {(MSD-R1) / SP} x 100
RPD	Relative Percent Difference: {(MS-MSD) / (MS+MSD)} x 100 x 2

INT m.m.

Orange Coast Analytical, Inc.

QC DATA REPORT

Analysis : Diesel (EPA 8015m)

Date of Analysis : 07/16/99
Laboratory Sample No : OCA 100
Laboratory Reference No : KJC 11007

Analyte	R1 (ppm)	SP (ppm)	MS (ppm)	MSD (ppm)	PR1 %	PR2 %	RPD %
Diesel	0.0	5.0	3.2	3.4	64	68	6

Definition of Terms :

R1	Results Of First Analysis
SP	Spike Concentration Added to Sample
MS	Matrix Spike Results
MSD	Matrix Spike Duplicate Results
PR1	Percent Recovery Of MS: {(MS-R1) / SP} x100
PR2	Percent Recovery Of MSD: {(MSD-R1) / SP} x 100
RPD	Relative Percent Difference: {(MS-MSD) / (MS+MSD)} x 100 x 2

INT M.M.

Orange Coast Analytical, Inc.

QC DATA REPORT

Analysis : EPA 5030 / 8015m

Date of Analysis : 07/14/99
Laboratory Sample No : 99070192
Laboratory Reference No : KJC 11007

Analyte	R1 (ppb)	SP (ppb)	MS (ppb)	MSD (ppb)	PR1 %	PR2 %	RPD %
Hydrocarbons	0.0	250	231	208	92	83	10

Definition of Terms :

R1	Results Of First Analysis
SP	Spike Concentration Added to Sample
MS	Matrix Spike Results
MSD	Matrix Spike Duplicate Results
PR1	Percent Recovery Of MS: {(MS-R1) / SP} x100
PR2	Percent Recovery Of MSD: {(MSD-R1) / SP} x 100
RPD	Relative Percent Difference: {(MS-MSD) / (MS+MSD)} x 100 x 2

INT m.n.

Orange Coast Analytical, Inc.

QC DATA REPORT

Analysis : Metals

Laboratory Reference No : KJC 11007

Analyte	Date Tested	QC Sample	R1 (ppm)	SP (ppm)	MS (ppm)	MSD (ppm)	PR1 %	PR2 %	RPD %
Antimony	07/14/99	99070202	0.00	1.00	1.03	1.13	103	113	9
Arsenic	07/14/99	99070202	0.00	1.00	1.03	1.09	103	109	6
Barium	07/14/99	99070202	0.10	0.100	0.194	0.194	95	95	0
Beryllium	07/14/99	99070202	0.00	0.100	0.106	0.106	106	106	0
Cadmium	07/14/99	99070202	0.00	0.100	0.097	0.098	97	98	1
Chromium (Total)	07/14/99	99070202	0.01	0.100	0.112	0.112	100	100	0
Chromium (VI)	07/14/99	OCA100	0.00	0.50	0.50	0.50	100	100	0
Cobalt	07/14/99	99070202	0.00	0.100	0.097	0.098	97	98	1
Copper	07/14/99	99070202	0.000	0.100	0.115	0.116	115	116	1
Lead	07/14/99	99070202	0.00	1.00	0.94	0.95	94	95	1
Mercury	07/15/99	OCA100	0.000	0.010	0.010	0.0093	100	93	7
Molybdenum	07/14/99	99070202	0.00	1.00	1.04	1.08	104	108	4
Nickel	07/14/99	99070202	0.00	0.50	0.49	0.50	98	100	2
Selenium	07/14/99	99070202	0.00	1.00	1.11	1.11	111	111	0
Silver	07/14/99	99070202	0.00	0.50	0.50	0.51	100	102	2
Thallium	07/14/99	99070202	0.00	1.00	1.15	1.07	115	107	7
Vanadium	07/14/99	99070202	0.00	0.500	0.518	0.520	104	104	0
Zinc	07/14/99	99070202	0.01	0.100	0.107	0.108	96	97	1

Definition of Terms :

R1	Results Of First Analysis
SP	Spike Concentration Added to Sample
MS	Matrix Spike Results
MSD	Matrix Spike Duplicate Results
PR1	Percent Recovery Of MS: {(MS-R1) / SP} x100
PR2	Percent Recovery Of MSD: {(MSD-R1) / SP} x 100
RPD	Relative Percent Difference: {(MS-MSD) / (MS+MSD)} x 100 x 2

INT m.n.

Orange Coast Analytical, Inc.

QC DATA REPORT

Analysis : Organochlorine Pesticides (EPA 8081)

Date of Analysis : 07/15/99
Laboratory Sample No : OCA 100
Laboratory Reference No : KJC 11007

Analyte	R1 (ppb)	SP (ppb)	MS (ppb)	MSD (ppb)	PR1 %	PR2 %	RPD %
4,4'-DDT	0.0	1.0	1.1	1.2	110	120	9

Definition of Terms :

R1	Results Of First Analysis
SP	Spike Concentration Added to Sample
MS	Matrix Spike Results
MSD	Matrix Spike Duplicate Results
PR1	Percent Recovery Of MS: {(MS-R1) / SP} x100
PR2	Percent Recovery Of MS: {(MSD-R1) / SP} x 100
RPD	Relative Percent Difference: {(MS-MSD) / (MS+MSD)} x 100 x 2

INT m.n.

Orange Coast Analytical, Inc.

:NNEDY/JENKS CONSULTANTS

\MPLE CHAIN-OF-CUSTODY ANALYSIS REQUEST

[ ] 200 New Stine Rd., #115, Bakersfield, CA 93309
[ ] 630 South 336th St., Federal Way, WA 98003
[ ] 17310 Red Hill Ave., #220, Irvine, CA 92714
[ ] 2101 East Bayshore Rd., #200, Palo Alto, CA 94303
[ ] 5190 Neil Road, #300, Reno, NV 89502
[ ] 3336 Bradshaw Rd., #140, Sacramento, CA 95827
[ ] 303 Second St., San Francisco, CA 94107
[ ] 1000 Hill Rd., #200, Ventura, CA 93003

OSSIBLE HAZARDS:

ate 7-13-99

ource of Samples Boeing C-6

ampler Name Shane Scrimshire

hone 805-835-9785

roject No. 994001.00

Report To Rus Purcell

Company Kennedy/Jenks

Address 2151 Michelson Dr. #100
Irvine CA. 92612

Phone 949-261-1577

Lab Destination Orange Coast

Address

Phone

Carrier/Way Bill No.

(1) Lab ID No.	(1) Client ID No.	COLLECTION Date	COLLECTION Time	(2) Type	Depth	(3) Comp.	(4) Pres.	Turn-around	(5) ANALYSES REQUESTED: 8260 VOCs	8015 diesel+gas	8270 SVOCs	8080 Pest.	T-22 metals/6010/7471/7196				Comment/Conditions (Container type, container number, etc.)
	WCC95-GW-2	7/13/99	1045	W	—	—	HCL	Norm.	X	X	X	X	X				
	TMW-12-~~WCC125~~-GW-2	"	1330	"	—	—	"	"	X	X	X	X	X				
	TMW-11-GW-2	"	1438	"	—	—	"	"	X	X	X	X	X				
	TMW-10-GW-2	"	1540	"	—	—	"	"	X	X	X	X	X				
	Trip Blank	"	—	"	—	—	"	"	X								

Write only one sample number in each space.
Specify type of sample(s): Water (W), Solid (S), or indicate type.
Mark each sample which should be composited in Laboratory as follows: Place an "A" in box for each sample that should be composited into one sample; use sequential letter for additional groups.
Preservation of sample.
Write each analyses requested across top. Place an "X" in appropriate column to indicate type of analysis needed for each sample.

MPLE RELINQUISHED BY:

Print Name	Signature	Company	Date	Time
hane Scrimshire	[signature]	K/J	7/13/99	1553

SAMPLE RECEIVED BY:

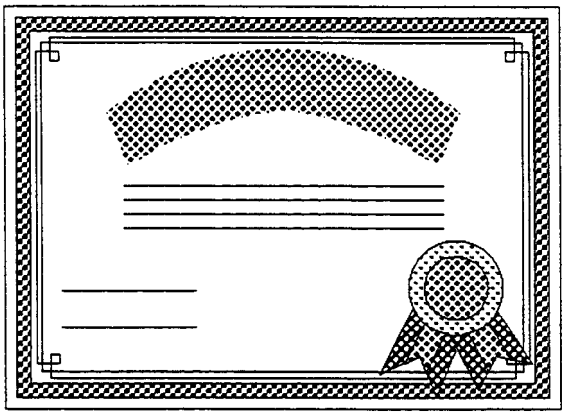
Print Name	Signature	Company	Date	Time
Isaac Navarro	[signature]	OCA	7/13/99	4:00 PM

CUSTODY 2 FRM

000065 06

BOE-C6-0045766

ORANGE COAST ANALYTICAL, INC.
3002 Dow, Suite 532, Tustin, CA 92780 (714) 832-0064 Fax (714) 832-0067
4620 E. Elwood, Suite 4, Phoenix, AZ 85040 (602) 736-0960 Fax (602) 736-0970



ORANGE COAST ANALYTICAL THANKS YOU FOR YOUR BUSINESS

THE FOLLOWING PAGES ARE THE ANALYSIS REPORT

ON THE SAMPLES YOU REQUESTED.

IF YOU HAVE ANY QUESTIONS REGARDING THIS REPORT

PLEASE FEEL FREE TO CONTACT US.

ORANGE COAST ANALYTICAL, INC.
3002 Dow, Suite 532, Tustin, CA 92780 (714) 832-0064 Fax (714) 832-0067
4620 E. Elwood, Suite 4, Phoenix, AZ 85040 (602) 736-0960 Fax (602) 736-0970

LABORATORY REPORT FORM

Laboratory Name: ORANGE COAST ANALYTICAL, INC.

Address: 3002 Dow Suite 532 Tustin, CA 92780

Telephone: (714) 832-0064

Laboratory Certification
(ELAP) No.: 1416 Expiration Date: 2001

Laboratory Director's Name (Print) : Mark Noorani

Client: Kennedy Jenks Consultants

Project No.: Boeing C-6

Project Name: 994001.00

Laboratory Reference: KJC 11008

Analytical Method: 8260, Metals, 8080 Pesticides, 8270, 8015m gas, 8015m diesel

Date Sampled: 07/13/99
Date Received: 07/14/99
Date Reported: 07/20/99

Sample Matrix: Water

Chain of Custody Received: Yes

Laboratory Director's Signature: Mark Noorani

Kennedy Jenks Consultants
ATTN: Mr. Rus Purcell
2151 Michelson Dr. Suite 100
Irvine, CA 92612

Client Project ID: Boeing C-6
Client Project #: 994001.00

SAMPLE DESCRIPTION (Water)

Laboratory Reference #: KJC 11008

Sampled:	---	07/13/99	07/13/99
Received:	---	07/14/99	07/14/99
Analyzed:	07/14/99	07/14/99	07/14/99
Reported:	07/20/99	07/20/99	07/20/99
Lab Sample I.D.	MB	99070199	99070200
Client Sample I.D.	---	TMW13 -GW-2	TMW14 -GW-2

VOLATILE ORGANICS BY GC/MS (EPA 8260)

ANALYTE	***CAS NUMBER***	***DETECTION LIMIT µg/l***		***SAMPLE RESULTS***	
			µg/l	***µg/l***	***µg/l***
Benzene	71-43-2	0.5	<0.5	<0.5	<0.5
Bromodichloromethane	75-27-4	1.0	<1.0	<1.0	<1.0
Bromoform	75-25-2	0.5	<0.5	<0.5	<0.5
Bromomethane	74-83-9	1.0	<1.0	<1.0	<1.0
Carbon Disulfide	75-15-0	0.5	<0.5	<0.5	<0.5
Carbon tetrachloride	56-23-5	0.5	<0.5	4.5	2.9
Chlorobenzene	108-90-7	0.5	<0.5	<0.5	<0.5
Chlorodibromomethane	124-48-1	0.5	<0.5	<0.5	<0.5
Chloroethane	75-00-3	0.5	<0.5	<0.5	<0.5
2-Chloroethyl vinyl ether	110-75-8	0.5	<0.5	<0.5	<0.5
Chloroform	67-66-3	0.5	<0.5	29	4.4
Chloromethane	74-87-3	0.5	<0.5	<0.5	<0.5
1,1-Dichloroethane	75-34-3	0.5	<0.5	<0.5	<0.5
1,2-Dichloroethane	107-06-2	0.5	<0.5	<0.5	<0.5
1,1-Dichloroethene	75-35-4	0.5	<0.5	0.6	<0.5
trans-1,2-Dichloroethene	156-60-5	0.5	<0.5	<0.5	<0.5
1,2-Dichloropropane	78-87-5	0.5	<0.5	<0.5	<0.5
cis-1,3-Dichloropropene	10061-01-5	0.5	<0.5	<0.5	<0.5
trans-1,3-Dichloropropene	10061-02-6	0.5	<0.5	<0.5	<0.5
Ethylbenzene	100-41-4	0.5	<0.5	<0.5	<0.5
Methylene chloride	75-09-2	2.5	<2.5	<2.5	<2.5
Styrene	100-42-5	0.5	<0.5	<0.5	<0.5
1,1,2,2-Tetrachloroethane	79-34-5	0.5	<0.5	<0.5	<0.5
Tetrachloroethene	127-18-4	0.5	<0.5	5.6	1.8
Toluene	108-88-3	0.5	<0.5	<0.5	<0.5
1,1,1-Trichloroethane	71-55-6	0.5	<0.5	<0.5	<0.5
1,1,2-Trichloroethane	79-00-5	0.5	<0.5	<0.5	<0.5
Trichloroethene	79-01-6	0.5	<0.5	120	13
Trichlorofluoromethane	75-69-4	0.5	<0.5	<0.5	<0.5
Vinyl acetate	108-05-4	1.0	<1.0	<1.0	<1.0
Vinyl chloride	75-01-4	0.5	<0.5	<0.5	<0.5
Total Xylenes	1330-20-7	1.0	<1.0	<1.0	<1.0
Dichlorodifluoromethane	75-71-8	0.5	<0.5	<0.5	<0.5
cis-1,2-Dichloroethene	156-59-2	0.5	<0.5	<0.5	<0.5
2,2-Dichloropropane	594-20-7	0.5	<0.5	<0.5	<0.5

INT-[illegible]

Orange Coast Analytical, Inc

VOLATILE ORGANICS BY GC/MS (EPA 8260) (continued)

Laboratory Reference #: KJC 11008

Client Project ID: Boeing C-6
Client Project #: 994001

Sampled:	---	07/13/99	07/13/99
Received:	---	07/14/99	07/14/99
Analyzed:	07/14/99	07/14/99	07/14/99
Reported:	07/20/99	07/20/99	07/20/99

		SAMPLE DESCRIPTION (Water)	
Lab Sample I.D.	MB	99070199	99070200
Client Sample I.D.	---	TMW13 -GW-2	TMW14 -GW-2

ANALYTE (CONT)	***CAS NUMBER***	***DETECTION LIMIT***		***SAMPLE RESULTS***	
		ug/l	***ug/l***	***ug/l***	***ug/l***
Bromochloromethane	74-97-5	0.5	<0.5	<0.5	<0.5
1,1-Dichloropropene	563-58-6	0.5	<0.5	<0.5	<0.5
Dibromomethane	74-95-3	0.5	<0.5	<0.5	<0.5
1,2-Dibromoethane	106-93-4	0.5	<0.5	<0.5	<0.5
1,3-Dichloropropane	142-28-9	0.5	<0.5	<0.5	<0.5
Isopropylbenzene	98-82-8	0.5	<0.5	<0.5	<0.5
1,1,2,2-Tetrachloroethane	79-34-5	0.5	<0.5	<0.5	<0.5
1,2,3-Trichloropropane	96-18-4	0.5	<0.5	<0.5	<0.5
Bromobenzene	108-86-1	0.5	<0.5	<0.5	<0.5
n-Propylbenzene	103-65-1	0.5	<0.5	<0.5	<0.5
2-Chlorotoluene	95-49-8	0.5	<0.5	<0.5	<0.5
1,3,5-Trimethylbenzene	108-67-8	0.5	<0.5	<0.5	<0.5
4-Chlorotoluene	106-43-4	0.5	<0.5	<0.5	<0.5
tert-Butylbenzene	98-06-6	0.5	<0.5	<0.5	<0.5
1,2,4-Trimethylbenzene	95-63-6	0.5	<0.5	<0.5	<0.5
sec-Butylbenzene	135-98-8	0.5	<0.5	<0.5	<0.5
4-Isopropyltoluene	99-87-6	0.5	<0.5	<0.5	<0.5
1,3-Dichlorobenzene	541-73-1	0.5	<0.5	<0.5	<0.5
1,4-Dichlorobenzene	106-46-7	0.5	<0.5	<0.5	<0.5
n-Butylbenzene	104-51-8	0.5	<0.5	<0.5	<0.5
1,2-Dichlorobenzene	95-50-1	0.5	<0.5	<0.5	<0.5
1-2-Dibromo-3-CPA	96-12-8	1.0	<1.0	<1.0	<1.0
1,2,4-Trichlorobenzene	120-82-1	0.5	<0.5	<0.5	<0.5
Hexachlorobutadiene	87-68-3	0.5	<0.5	<0.5	<0.5
Naphthalene	91-20-3	0.5	<0.5	<0.5	<0.5
1,2,3-Trichlorobenzene	87-61-6	0.5	<0.5	<0.5	<0.5

SURROGATE RECOVERY	%RC	%RC	%RC
Dibromofluoromethane	86	93	96
Toluene-d8	94	95	95
4-Bromofluorobenzene	94	98	99

Kennedy Jenks Consultants
ATTN: Mr. Rus Purcell
2151 Michelson Dr. Suite 100
Irvine, CA 92612

Client Project ID: Boeing C-6
Client Project #: 994001.00

SAMPLE DESCRIPTION (Water)

Laboratory Reference #: KJC 11008

Sampled:	07/13/99	07/13/99	07/13/99
Received:	07/14/99	07/14/99	07/14/99
Analyzed:	07/14/99	07/14/99	07/14/99
Reported:	07/20/99	07/20/99	07/20/99
Lab Sample I.D.	99070201	99070202	99070203
Client Sample I.D.	TMW-15 -GW-2	WCC12S -GW-2	Trip Blank

VOLATILE ORGANICS BY GC/MS (EPA 8260)

ANALYTE	***CAS NUMBER***	***DETECTION LIMIT***	***SAMPLE RESULTS***		
		µg/l	***µg/l***	***µg/l***	***µg/l***
Benzene	71-43-2	0.5	<0.5	<0.5	<0.5
Bromodichloromethane	75-27-4	1.0	<1.0	<1.0	<1.0
Bromoform	75-25-2	0.5	<0.5	<0.5	<0.5
Bromomethane	74-83-9	1.0	<1.0	<1.0	<1.0
Carbon Disulfide	75-15-0	0.5	<0.5	<0.5	<0.5
Carbon tetrachloride	56-23-5	0.5	<0.5	<0.5	<0.5
Chlorobenzene	108-90-7	0.5	<0.5	<0.5	<0.5
Chlorodibromomethane	124-48-1	0.5	<0.5	<0.5	<0.5
Chloroethane	75-00-3	0.5	<0.5	<0.5	<0.5
2-Chloroethyl vinyl ether	110-75-8	0.5	<0.5	<0.5	<0.5
Chloroform	67-66-3	0.5	11	1.9	<0.5
Chloromethane	74-87-3	0.5	<0.5	<0.5	<0.5
1,1-Dichloroethane	75-34-3	0.5	<0.5	20	<0.5
1,2-Dichloroethane	107-06-2	0.5	<0.5	<0.5	<0.5
1,1-Dichloroethene	75-35-4	0.5	1.5	49	<0.5
trans-1,2-Dichloroethene	156-60-5	0.5	<0.5	<0.5	<0.5
1,2-Dichloropropane	78-87-5	0.5	<0.5	<0.5	<0.5
cis-1,3-Dichloropropene	10061-01-5	0.5	<0.5	<0.5	<0.5
trans-1,3-Dichloropropene	10061-02-6	0.5	<0.5	<0.5	<0.5
Ethylbenzene	100-41-4	0.5	<0.5	<0.5	<0.5
Methylene chloride	75-09-2	2.5	<2.5	<2.5	<2.5
Styrene	100-42-5	0.5	<0.5	<0.5	<0.5
1,1,2,2-Tetrachloroethane	79-34-5	0.5	<0.5	<0.5	<0.5
Tetrachloroethene	127-18-4	0.5	<0.5	0.63	<0.5
Toluene	108-88-3	0.5	<0.5	<0.5	<0.5
1,1,1-Trichloroethane	71-55-6	0.5	<0.5	<0.5	<0.5
1,1,2-Trichloroethane	79-00-5	0.5	<0.5	<0.5	<0.5
Trichloroethene	79-01-6	0.5	39	130	<0.5
Trichlorofluoromethane	75-69-4	0.5	<0.5	<0.5	<0.5
Vinyl acetate	108-05-4	1.0	<1.0	<1.0	<1.0
Vinyl chloride	75-01-4	0.5	<0.5	<0.5	<0.5
Total Xylenes	1330-20-7	1.0	<1.0	<1.0	<1.0
Dichlorodifluoromethane	75-71-8	0.5	<0.5	<0.5	<0.5
cis-1,2-Dichloroethene	156-59-2	0.5	<0.5	3.0	<0.5
2,2-Dichloropropane	594-20-7	0.5	<0.5	<0.5	<0.5

VOLATILE ORGANICS BY GC/MS (EPA 8260) (continued)

Laboratory Reference #: KJC 11008

Client Project ID: Boeing C-6
Client Project #: 994001

Sampled:	07/13/99	07/13/99	07/13/99
Received:	07/14/99	07/14/99	07/14/99
Analyzed:	07/14/99	07/14/99	07/14/99
Reported:	07/20/99	07/20/99	07/20/99
	SAMPLE DESCRIPTION (Water)		
Lab Sample I.D.	99070201	99070202	99070203
Client Sample I.D.	TMW-15 -GW-2	WCC12S -GW-2	Trip Blank

ANALYTE (CONT)	***CAS NUMBER***	***DETECTION LIMIT***	***SAMPLE RESULTS***		
		ug/l	***ug/l***	***ug/l***	***ug/l***
Bromochloromethane	74-97-5	0.5	<0.5	<0.5	<0.5
1,1-Dichloropropene	563-58-6	0.5	<0.5	<0.5	<0.5
Dibromomethane	74-95-3	0.5	<0.5	<0.5	<0.5
1,2-Dibromoethane	106-93-4	0.5	<0.5	<0.5	<0.5
1,3-Dichloropropane	142-28-9	0.5	<0.5	<0.5	<0.5
Isopropylbenzene	98-82-8	0.5	<0.5	<0.5	<0.5
1,1,2,2-Tetrachloroethane	79-34-5	0.5	<0.5	<0.5	<0.5
1,2,3-Trichloropropane	96-18-4	0.5	<0.5	<0.5	<0.5
Bromobenzene	108-86-1	0.5	<0.5	<0.5	<0.5
n-Propylbenzene	103-65-1	0.5	<0.5	<0.5	<0.5
2-Chlorotoluene	95-49-8	0.5	<0.5	<0.5	<0.5
1,3,5-Trimethylbenzene	108-67-8	0.5	<0.5	<0.5	<0.5
4-Chlorotoluene	106-43-4	0.5	<0.5	<0.5	<0.5
tert-Butylbenzene	98-06-6	0.5	<0.5	<0.5	<0.5
1,2,4-Trimethylbenzene	95-63-6	0.5	<0.5	<0.5	<0.5
sec-Butylbenzene	135-98-8	0.5	<0.5	<0.5	<0.5
4-Isopropyltoluene	99-87-6	0.5	<0.5	<0.5	<0.5
1,3-Dichlorobenzene	541-73-1	0.5	<0.5	<0.5	<0.5
1,4-Dichlorobenzene	106-46-7	0.5	<0.5	<0.5	<0.5
n-Butylbenzene	104-51-8	0.5	<0.5	<0.5	<0.5
1,2-Dichlorobenzene	95-50-1	0.5	<0.5	<0.5	<0.5
1-2-Dibromo-3-CPA	96-12-8	1.0	<1.0	<1.0	<1.0
1,2,4-Trichlorobenzene	120-82-1	0.5	<0.5	<0.5	<0.5
Hexachlorobutadiene	87-68-3	0.5	<0.5	<0.5	<0.5
Naphthalene	91-20-3	0.5	<0.5	<0.5	<0.5
1,2,3-Trichlorobenzene	87-61-6	0.5	<0.5	<0.5	<0.5

SURROGATE RECOVERY	%RC	%RC	%RC
Dibromofluoromethane	96	97	87
Toluene-d8	94	92	92
4-Bromofluorobenzene	97	98	96

INT-m.n.

Kennedy Jenks Consultants
ATTN: Mr. Rus Purcell
2151 Michelson Dr. Suite 100
Irvine, CA 92612

Client Project ID: Boeing C-6
Client Project #: 994001.00

SAMPLE DESCRIPTION (Water)

Laboratory Reference #: KJC 11008

Sampled:	---	07/13/99	07/13/99
Received:	---	07/14/99	07/14/99
Analyzed:	07/15/99	07/15/99	07/15/99
Reported:	07/20/99	07/20/99	07/20/99
Lab Sample I.D.	MB	99070199	99070200
Client Sample I.D.	---	TMW13 -GW-2	TMW14 -GW-2

SEMI VOLATILE ORGANICS BY GC/MS (EPA 8270)

ANALYTE	***CAS NUMBER***	***DETECTION LIMIT***		***SAMPLE RESULTS***	
		µg/l	***µg/l***	***µg/l***	***µg/l***
Acenaphthene	83-32-9	5.0	<5.0	<5.0	<5.0
Acenaphthylene	208-96-8	5.0	<5.0	<5.0	<5.0
Aniline	62-53-3	5.0	<5.0	<5.0	<5.0
Anthracene	120-12-7	5.0	<5.0	<5.0	<5.0
Benzoic acid	65-85-0	50	<50	<50	<50
Benzo (a) anthracene	56-55-3	5.0	<5.0	<5.0	<5.0
Benzo (b) fluoranthene	205-99-2	25	<25	<25	<25
Benzo (k) fluoranthene	207-08-9	25	<25	<25	<25
Benzo (g,h,i) perylene	191-24-2	25	<25	<25	<25
Benzo (a) pyrene	50-32-8	25	<25	<25	<25
Benzyl alcohol	100-51-6	5.0	<5.0	<5.0	<5.0
bis-(2-chloroethoxy) methane	111-91-1	5.0	<5.0	<5.0	<5.0
bis-(2-chloroethyl) ether	111-44-4	5.0	<5.0	<5.0	<5.0
bis-(2-chloroisopropyl) ether	108-60-1	5.0	<5.0	<5.0	<5.0
bis-(2-ethylhexyl) phthalate	117-81-7	3.0	<3.0	<3.0	<3.0
4-Bromophenyl phenyl ether	101-55-3	5.0	<5.0	<5.0	<5.0
Butyl benzyl phthalate	85-68-7	5.0	<5.0	<5.0	<5.0
4-Chloroaniline	106-47-8	5.0	<5.0	<5.0	<5.0
2-Chloronaphthalene	91-58-7	5.0	<5.0	<5.0	<5.0
4-Chloro-3-methylphenol	59-50-7	5.0	<5.0	<5.0	<5.0
2-Chlorophenol	95-57-8	5.0	<5.0	<5.0	<5.0
4-Chlorophenyl phenyl ether	7005-72-3	5.0	<5.0	<5.0	<5.0
Chrysene	218-01-9	5.0	<5.0	<5.0	<5.0
Dibenz (a,h) anthracene	53-70-3	25	<25	<25	<25
Dibenzofuran	132-64-9	5.0	<5.0	<5.0	<5.0
Di-n-butyl phthalate	84-74-2	5.0	<5.0	<5.0	<5.0
1,3-Dichlorobenzene	541-73-1	5.0	<5.0	<5.0	<5.0
1,4-Dichlorobenzene	106-46-7	5.0	<5.0	<5.0	<5.0
1,2-Dichlorobenzene	95-50-1	5.0	<5.0	<5.0	<5.0
3,3-Dichlorobenzidine	91-94-1	5.0	<5.0	<5.0	<5.0
2,4-Dichlorophenol	120-83-2	5.0	<5.0	<5.0	<5.0
Diethyl phthalate	84-66-2	5.0	<5.0	<5.0	<5.0
2,4-Dimethylphenol	105-67-9	5.0	<5.0	<5.0	<5.0
Dimethyl phthalate	131-11-3	5.0	<5.0	<5.0	<5.0
4,6-Dinitro-2-methylphenol	534-52-1	50	<50	<50	<50

INT-

Orange Coast Analytical, Inc

SEMI-VOLATILE ORGANICS BY GC/MS (EPA 8270) (continued)

Laboratory Reference #: KJC 11008

Client Project ID: Boeing C-6
Client Project #: 994001

Sampled:	---	07/13/99	07/13/99
Received:	---	07/14/99	07/14/99
Analyzed:	07/15/99	07/15/99	07/15/99
Reported:	07/20/99	07/20/99	07/20/99
		SAMPLE DESCRIPTION (Water)	
Lab Sample I.D.	MB	99070199	99070200
Client Sample I.D.	---	TMW13 -GW-2	TMW14 -GW-2

ANALYTE (CONT)	***CAS NUMBER***	***DETECTION LIMIT***		***SAMPLE RESULTS***	
		ug/l	***ug/l***	***ug/l***	***ug/l***
2,4-Dinitrophenol	51-28-5	50	<50	<50	<50
2,4-Dinitrotoluene	121-14-2	5.0	<5.0	<5.0	<5.0
2,6-Dinitrotoluene	606-20-2	5.0	<5.0	<5.0	<5.0
Di-n-octyl phthalate	117-84-0	25	<25	<25	<25
Fluoranthene	206-44-0	5.0	<5.0	<5.0	<5.0
Fluorene	86-73-7	5.0	<5.0	<5.0	<5.0
Hexachlorobenzene	118-74-1	5.0	<5.0	<5.0	<5.0
Hexachlorobutadiene	87-68-3	5.0	<5.0	<5.0	<5.0
Hexachlorocyclopentadiene	77-47-4	5.0	<5.0	<5.0	<5.0
Hexachloroethane	67-72-1	5.0	<5.0	<5.0	<5.0
Indeno (1,2,3-cd) pyrene	193-39-5	25	<25	<25	<25
Isophorone	78-59-1	5.0	<5.0	<5.0	<5.0
2-Methylnaphthalene	91-57-6	5.0	<5.0	<5.0	<5.0
2-Methylphenol	95-48-7	5.0	<5.0	<5.0	<5.0
4-Methylphenol	106-44-5	5.0	<5.0	<5.0	<5.0
Naphthalene	91-20-3	5.0	<5.0	<5.0	<5.0
2-Nitroaniline	88-74-4	50	<50	<50	<50
3-Nitroaniline	99-09-2	50	<50	<50	<50
4-Nitroaniline	100-01-6	50	<50	<50	<50
Nitrobenzene	98-95-3	5.0	<5.0	<5.0	<5.0
2-Nitrophenol	88-75-5	5.0	<5.0	<5.0	<5.0
4-Nitrophenol	100-02-7	50	<50	<50	<50
n-Nitrosodiphenylamine	86-30-6	5.0	<5.0	<5.0	<5.0
n-Nitrosodipropylamine	621-64-7	5.0	<5.0	<5.0	<5.0
n-Nitrosodimethylamine	62-75-9	5.0	<5.0	<5.0	<5.0
Pentachlorophenol	87-86-5	50	<50	<50	<50
Phenanthrene	85-01-8	5.0	<5.0	<5.0	<5.0
Phenol	108-95-2	5.0	<5.0	<5.0	<5.0
Pyrene	129-00-0	5.0	<5.0	<5.0	<5.0
1,2,4-Trichlorobenzene	120-82-1	5.0	<5.0	<5.0	<5.0
2,4,5-trichlorophenol	95-95-4	5.0	<5.0	<5.0	<5.0
2,4,6-Trichlorophenol	88-06-2	5.0	<5.0	<5.0	<5.0

Kennedy Jenks Consultants
ATTN: Mr. Rus Purcell
2151 Michelson Dr. Suite 100
Irvine, CA 92612

Client Project ID: Boeing C-6
Client Project #: 994001.00

SAMPLE DESCRIPTION (Water)

Laboratory Reference #: KJC 11008

Sampled:	07/13/99	07/13/99
Received:	07/14/99	07/14/99
Analyzed:	07/15/99	07/15/99
Reported:	07/20/99	07/20/99
Lab Sample I.D.	99070201	99070202
Client Sample I.D.	TMW-15 -GW-2	WCC12S -GW-2

SEMI VOLATILE ORGANICS BY GC/MS (EPA 8270)

ANALYTE	***CAS NUMBER***	***DETECTION LIMIT µg/l***	***SAMPLE RESULTS µg/l***	***µg/l***
Acenaphthene	83-32-9	5.0	<5.0	<5.0
Acenaphthylene	208-96-8	5.0	<5.0	<5.0
Aniline	62-53-3	5.0	<5.0	<5.0
Anthracene	120-12-7	5.0	<5.0	<5.0
Benzoic acid	65-85-0	50	<50	<50
Benzo (a) anthracene	56-55-3	5.0	<5.0	<5.0
Benzo (b) fluoranthene	205-99-2	25	<25	<25
Benzo (k) fluoranthene	207-08-9	25	<25	<25
Benzo (g,h,i) perylene	191-24-2	25	<25	<25
Benzo (a) pyrene	50-32-8	25	<25	<25
Benzyl alcohol	100-51-6	5.0	<5.0	<5.0
bis-(2-chloroethoxy) methane	111-91-1	5.0	<5.0	<5.0
bis-(2-chloroethyl) ether	111-44-4	5.0	<5.0	<5.0
bis-(2-chloroisopropyl) ether	108-60-1	5.0	<5.0	<5.0
bis-(2-ethylhexyl) phthalate	117-81-7	3.0	<3.0	<3.0
4-Bromophenyl phenyl ether	101-55-3	5.0	<5.0	<5.0
Butyl benzyl phthalate	85-68-7	5.0	<5.0	<5.0
4-Chloroaniline	106-47-8	5.0	<5.0	<5.0
2-Chloronaphthalene	91-58-7	5.0	<5.0	<5.0
4-Chloro-3-methylphenol	59-50-7	5.0	<5.0	<5.0
2-Chlorophenol	95-57-8	5.0	<5.0	<5.0
4-Chlorophenyl phenyl ether	7005-72-3	5.0	<5.0	<5.0
Chrysene	218-01-9	5.0	<5.0	<5.0
Dibenz (a,h) anthracene	53-70-3	25	<25	<25
Dibenzofuran	132-64-9	5.0	<5.0	<5.0
Di-n-butyl phthalate	84-74-2	5.0	<5.0	<5.0
1,3-Dichlorobenzene	541-73-1	5.0	<5.0	<5.0
1,4-Dichlorobenzene	106-46-7	5.0	<5.0	<5.0
1,2-Dichlorobenzene	95-50-1	5.0	<5.0	<5.0
3,3-Dichlorobenzidine	91-94-1	5.0	<5.0	<5.0
2,4-Dichlorophenol	120-83-2	5.0	<5.0	<5.0
Diethyl phthalate	84-66-2	5.0	<5.0	<5.0
2,4-Dimethylphenol	105-67-9	5.0	<5.0	<5.0
Dimethyl phthalate	131-11-3	5.0	<5.0	<5.0
4,6-Dinitro-2-methylphenol	534-52-1	50	<50	<50

INT-

Orange Coast Analytical, Inc

SEMI-VOLATILE ORGANICS BY GC/MS (EPA 8270) (continued)

Laboratory Reference #: KJC 11008

Client Project ID: Boeing C-6
Client Project #: 994001

Sampled:	07/13/99	07/13/99
Received:	07/14/99	07/14/99
Analyzed:	07/15/99	07/15/99
Reported:	07/20/99	07/20/99
	SAMPLE DESCRIPTION (Water)	
Lab Sample I.D.	99070201	99070202
Client Sample I.D.	TMW-15 -GW-2	WCC12S -GW-2

ANALYTE (CONT)	***CAS NUMBER***	***DETECTION LIMIT***	***SAMPLE RESULTS***	
		ug/l	***ug/l***	***ug/l***
2,4-Dinitrophenol	51-28-5	50	<50	<50
2,4-Dinitrotoluene	121-14-2	5.0	<5.0	<5.0
2,6-Dinitrotoluene	606-20-2	5.0	<5.0	<5.0
Di-n-octyl phthalate	117-84-0	25	<25	<25
Fluoranthene	206-44-0	5.0	<5.0	<5.0
Fluorene	86-73-7	5.0	<5.0	<5.0
Hexachlorobenzene	118-74-1	5.0	<5.0	<5.0
Hexachlorobutadiene	87-68-3	5.0	<5.0	<5.0
Hexachlorocyclopentadiene	77-47-4	5.0	<5.0	<5.0
Hexachloroethane	67-72-1	5.0	<5.0	<5.0
Indeno (1,2,3-cd) pyrene	193-39-5	25	<25	<25
Isophorone	78-59-1	5.0	<5.0	<5.0
2-Methylnaphthalene	91-57-6	5.0	<5.0	<5.0
2-Methylphenol	95-48-7	5.0	<5.0	<5.0
4-Methylphenol	106-44-5	5.0	<5.0	<5.0
Naphthalene	91-20-3	5.0	<5.0	<5.0
2-Nitroaniline	88-74-4	50	<50	<50
3-Nitroaniline	99-09-2	50	<50	<50
4-Nitroaniline	100-01-6	50	<50	<50
Nitrobenzene	98-95-3	5.0	<5.0	<5.0
2-Nitrophenol	88-75-5	5.0	<5.0	<5.0
4-Nitrophenol	100-02-7	50	<50	<50
n-Nitrosodiphenylamine	86-30-6	5.0	<5.0	<5.0
n-Nitrosodipropylamine	621-64-7	5.0	<5.0	<5.0
n-Nitrosodimethylamine	62-75-9	5.0	<5.0	<5.0
Pentachlorophenol	87-86-5	50	<50	<50
Phenanthrene	85-01-8	5.0	<5.0	<5.0
Phenol	108-95-2	5.0	<5.0	<5.0
Pyrene	129-00-0	5.0	<5.0	<5.0
1,2,4-Trichlorobenzene	120-82-1	5.0	<5.0	<5.0
2,4,5-trichlorophenol	95-95-4	5.0	<5.0	<5.0
2,4,6-Trichlorophenol	88-06-2	5.0	<5.0	<5.0

INT-m.n.

Kennedy Jenks Consultants
ATTN: Mr. Rus Purcell
2151 Michelson Dr. Suite 100
Irvine, CA 92612

Client Project ID: Boeing C-6
Client Project #: 994001.00

Sample Description: Water,

Laboratory Reference #: KJC 11008

Sampled: 07/13/99
Received: 07/14/99
Analyzed: 07/16/99
Reported: 07/20/99

DIESEL (EPA 8015m)

LABORATORY SAMPLE NUMBER	***CLIENT SAMPLE NUMBER***	***SAMPLE RESULTS mg/l***
99070199	TMW13-GW-2	N.D.
99070200	TMW14-GW-2	N.D.
99070201	TMW15-GW-2	N.D.
99070202	WCC12S-GW-2	N.D.
Detection Limit:		0.5

Analyte reported as N.D. was not present above the stated limit of detection.

INT mn.

Orange Coast Analytical, Inc.

Kennedy Jenks Consultants
ATTN: Mr. Rus Purcell
2151 Michelson Dr. Suite 100
Irvine, CA 92612

Client Project ID: Boeing C-6
Client Project #: 994001.00

Sample Description: Water,

Laboratory Reference #: KJC 11008

Sampled: 07/13/99
Received: 07/14/99
Analyzed: 07/14/99
Reported: 07/20/99

VOLATILE FUEL HYDROCARBONS (EPA 8015m)

LABORATORY SAMPLE NUMBER	***CLIENT SAMPLE NUMBER***	***SAMPLE RESULTS µg/l***
99070199	TMW13-GW-2	N.D.
99070200	TMW14-GW-2	N.D.
99070201	TMW15-GW-2	N.D.
99070202	WCC12S-GW-2	66

Detection Limit:	50

Volatile Fuel Hydrocarbons are quantitated against a gasoline standard. Hydrocarbons detected by this method range from C6 to C14. Analyte reported as N.D. was not present above the stated limit of detections.

INT m.n.

Orange Coast Analytical, Inc.

Kennedy Jenks Consultants
ATTN: Mr. Rus Purcell
2151 Michelson Dr. Suite 100
Irvine, CA 92612

Client Project ID: Boeing C-6
Client Project #: 994001.00

SAMPLE DESCRIPTION (Water)

Laboratory Reference #: KJC 11008

Sampled:	---	07/13/99	07/13/99
Received:	---	07/14/99	07/14/99
Analyzed:	07/15/99	07/15/99	07/15/99
Reported:	07/20/99	07/20/99	07/20/99
Lab Sample I.D.	MB	99070199	99070200
Client Sample I.D.	---	TMW13 -GW-2	TMW14 -GW-2

ORGANOCHLORINATED PESTICIDES (EPA 8081)

ANALYTE	***CAS NUMBER***	***DETECTION LIMIT µg/l***	***SAMPLE RESULTS***		
			µg/l	***µg/l***	***µg/l***
Aldrin	309-00-2	0.1	<0.1	<0.1	<0.1
alpha-BHC	319-84-6	0.2	<0.2	<0.2	<0.2
beta-BHC	319-85-7	0.2	<0.2	<0.2	<0.2
delta-BHC	319-86-8	0.2	<0.2	<0.2	<0.2
gamma-BHC (Lindane)	58-89-9	0.2	<0.2	<0.2	<0.2
Chlordane	57-74-9	0.2	<0.2	<0.2	<0.2
4,4'-DDD	72-54-8	0.5	<0.5	<0.5	<0.5
4,4'-DDE	72-55-9	0.1	<0.1	<0.1	<0.1
4,4'-DDT	50-29-3	0.1	<0.1	<0.1	<0.1
Dieldrin	60-57-1	0.5	<0.5	<0.5	<0.5
Endosulfan I	959-98-8	0.5	<0.5	<0.5	<0.5
Endosulfan II	33212-65-9	0.5	<0.5	<0.5	<0.5
Endosulfan sulfate	1031-07-8	0.5	<0.5	<0.5	<0.5
Endrin	72-20-8	0.02	<0.02	<0.02	<0.02
Endrin aldehyde	7421-93-4	0.2	<0.2	<0.2	<0.2
Heptachlor	76-44-8	0.1	<0.1	<0.1	<0.1
Heptachlor epoxide	1024-57-3	0.2	<0.2	<0.2	<0.2
Methoxychlor	72-43-5	9.0	<9.0	<9.0	<9.0
Toxaphene	8001-35-2	0.5	<0.5	<0.5	<0.5

Kennedy Jenks Consultants
ATTN: Mr. Rus Purcell
2151 Michelson Dr. Suite 100
Irvine, CA 92612

Client Project ID: Boeing C-6
Client Project #: 994001.00

SAMPLE DESCRIPTION (Water)

Laboratory Reference #: KJC 11008

Sampled:	---	07/13/99	07/13/99
Received:	---	07/14/99	07/14/99
Analyzed:		07/15/99	07/15/99
Reported:		07/20/99	07/20/99
Lab Sample I.D.		99070201	99070202
Client Sample I.D.		TMW-15 -GW-2	WCC12S -GW-2

ORGANOCHLORINATED PESTICIDES (EPA 8081)

ANALYTE	***CAS NUMBER***	***DETECTION LIMIT µg/l***	***SAMPLE RESULTS µg/l***	***µg/l***
Aldrin	309-00-2	0.1	<0.1	<0.1
alpha-BHC	319-84-6	0.2	<0.2	<0.2
beta-BHC	319-85-7	0.2	<0.2	<0.2
delta-BHC	319-86-8	0.2	<0.2	<0.2
gamma-BHC (Lindane)	58-89-9	0.2	<0.2	<0.2
Chlordane	57-74-9	0.2	<0.2	<0.2
4,4'-DDD	72-54-8	0.5	<0.5	<0.5
4,4'-DDE	72-55-9	0.1	<0.1	<0.1
4,4'-DDT	50-29-3	0.1	<0.1	<0.1
Dieldrin	60-57-1	0.5	<0.5	<0.5
Endosulfan I	959-98-8	0.5	<0.5	<0.5
Endosulfan II	33212-65-9	0.5	<0.5	<0.5
Endosulfan sulfate	1031-07-8	0.5	<0.5	<0.5
Endrin	72-20-8	0.02	<0.02	<0.02
Endrin aldehyde	7421-93-4	0.2	<0.2	<0.2
Heptachlor	76-44-8	0.1	<0.1	<0.1
Heptachlor epoxide	1024-57-3	0.2	<0.2	<0.2
Methoxychlor	72-43-5	9.0	<9.0	<9.0
Toxaphene	8001-35-2	0.5	<0.5	<0.5

INT-

Orange Coast Analytical, Inc

Kennedy Jenks Consultants
ATTN: Mr. Rus Purcell
2151 Michelson Dr. Suite 100
Irvine, CA 92612

Client Project ID: Boeing C-6
Client Project #: 994001.00

SAMPLE DESCRIPTION (Water)

Laboratory Reference #: KJC 11008

Sampled:	---	07/13/99	07/13/99
Received:	---	07/14/99	07/14/99
Reported:	07/20/99	07/20/99	07/20/99
Lab Sample I.D.	MB	99070199	99070200
Client Sample I.D.	---	TMW13 -GW-2	TMW14 -GW-2

CCR METALS

ANALYTE	***DATE TESTED***	***EPA METHOD***	***DETECTION LIMIT mg/l***	***SAMPLE RESULTS***		
				mg/l	***mg/l***	***mg/l***
Antimony	07/14/99	6010	0.1	<0.1	<0.1	<0.1
Arsenic	07/14/99	6010	0.1	<0.1	<0.1	<0.1
Barium	07/14/99	6010	0.01	<0.01	0.18	0.17
Beryllium	07/14/99	6010	0.01	<0.01	<0.01	<0.01
Cadmium	07/14/99	6010	0.01	<0.01	<0.01	<0.01
Chromium (VI)	07/14/99	7196	0.01	<0.01	<0.01	<0.01
Chromium (Total)	07/14/99	6010	0.01	<0.01	<0.01	0.012
Cobalt	07/14/99	6010	0.01	<0.01	<0.01	<0.01
Copper	07/14/99	6010	0.01	<0.01	<0.01	<0.01
Lead	07/14/99	6010	0.05	<0.05	<0.05	<0.05
Mercury	07/15/99	7471	0.001	<0.001	<0.001	<0.001
Molybdenum	07/14/99	6010	0.05	<0.05	<0.05	<0.05
Nickel	07/14/99	6010	0.01	<0.01	<0.01	<0.01
Selenium	07/14/99	6010	0.1	<0.1	<0.1	<0.1
Silver	07/14/99	6010	0.01	<0.01	<0.01	<0.01
Thallium	07/14/99	6010	0.1	<0.1	<0.1	<0.1
Vanadium	07/14/99	6010	0.01	<0.01	<0.01	<0.01
Zinc	07/14/99	6010	0.01	<0.01	0.015	0.015

Kennedy Jenks Consultants
ATTN: Mr. Rus Purcell
2151 Michelson Dr. Suite 100
Irvine, CA 92612

Client Project ID: Boeing C-6
Client Project #: 994001.00

SAMPLE DESCRIPTION (Water)

Laboratory Reference #: KJC 11008

Sampled:	07/13/99	07/13/99
Received:	07/14/99	07/14/99
Reported:	07/20/99	07/20/99
Lab Sample I.D.	99070201	99070202
Client Sample I.D.	TMW-15 -GW-2	WCC12S -GW-2

CCR METALS

ANALYTE	***DATE TESTED***	***EPA METHOD***	***DETECTION LIMIT mg/l***	***SAMPLE RESULTS mg/l***	***mg/l***
Antimony	07/14/99	6010	0.1	<0.1	<0.1
Arsenic	07/14/99	6010	0.1	<0.1	<0.1
Barium	07/14/99	6010	0.01	0.085	0.10
Beryllium	07/14/99	6010	0.01	<0.01	<0.01
Cadmium	07/14/99	6010	0.01	<0.01	<0.01
Chromium (VI)	07/14/99	7196	0.01	<0.01	<0.01
Chromium (Total)	07/14/99	6010	0.01	0.011	0.012
Cobalt	07/14/99	6010	0.01	<0.01	<0.01
Copper	07/14/99	6010	0.01	<0.01	<0.01
Lead	07/14/99	6010	0.05	<0.05	<0.05
Mercury	07/15/99	7471	0.001	<0.001	<0.001
Molybdenum	07/14/99	6010	0.05	<0.05	<0.05
Nickel	07/14/99	6010	0.01	<0.01	<0.01
Selenium	07/14/99	6010	0.1	<0.1	<0.1
Silver	07/14/99	6010	0.01	<0.01	<0.01
Thallium	07/14/99	6010	0.1	<0.1	<0.1
Vanadium	07/14/99	6010	0.01	0.018	<0.01
Zinc	07/14/99	6010	0.01	0.026	0.011

QC DATA REPORT

Analysis : Volatile Organics by GC/MS (EPA 8260)

Date of Analysis : 07/14/99
Laboratory Sample No : 99070197
Laboratory Reference No : KJC 11008

Analyte	R1 (ppb)	SP (ppb)	MS (ppb)	MSD (ppb)	PR1 %	PR2 %	RPD %
Benzene	0.0	20	19	19	95	95	0
1,1-Dichloroethene	0.58	20	21	22	102	107	5
Trichloroethene	4.4	20	23	23	93	93	0
Toluene	0.0	20	17	17	85	85	0
Chlorobenzene	0.0	20	19	19	95	95	0

Definition of Terms :

R1	Results Of First Analysis
SP	Spike Concentration Added to Sample
MS	Matrix Spike Results
MSD	Matrix Spike Duplicate Results
PR1	Percent Recovery Of MS: {(MS-R1) / SP} x100
PR2	Percent Recovery Of MSD: {(MSD-R1) / SP} x 100
RPD	Relative Percent Difference: {(MS-MSD) / (MS+MSD)} x 100 x 2

INT m.n.

Orange Coast Analytical, Inc.

QC DATA REPORT

Analysis : Semi-Volatile Organics by GC/MS (EPA 8270)

Date of Analysis : 07/15/99
Laboratory Sample No : OCA100
Laboratory Reference No : KJC 11008

Analyte	R1 (ng)	SP (ng)	MS (ng)	MSD (ng)	PR1 %	PR2 %	RPD %
1,4-Dichlorobenzene	0.0	50	32	33	64	66	3
n-Nitroso-di-n-propylamine	0.0	50	38	40	76	80	5
1,2,4-Trichlorobenzene	0.0	50	34	35	68	70	3
Acenaphthene	0.0	50	37	38	74	76	3
Pyrene	0.0	50	42	43	84	86	2
Pentachlorophenol	0.0	100	84	85	84	85	1
4-Chloro-3-Methylphenol	0.0	100	66	56	66	56	16
2-Chlorophenol	0.0	100	70	68	70	68	3
Phenol	0.0	100	31	26	31	26	18

Definition of Terms :

R1	Results Of First Analysis
SP	Spike Concentration Added to Sample
MS	Matrix Spike Results
MSD	Matrix Spike Duplicate Results
PR1	Percent Recovery Of MS: {(MS-R1) / SP} x100
PR2	Percent Recovery Of MSD: {(MSD-R1) / SP} x 100
RPD	Relative Percent Difference: {(MS-MSD) / (MS+MSD)} x 100 x 2

INT vm.n.

Orange Coast Analytical, Inc.

QC DATA REPORT

Analysis : Diesel (EPA 8015m)

Date of Analysis : 07/16/99
Laboratory Sample No : OCA 100
Laboratory Reference No : KJC 11008

Analyte	R1 (ppm)	SP (ppm)	MS (ppm)	MSD (ppm)	PR1 %	PR2 %	RPD %
Diesel	0.0	5.0	3.2	3.4	64	68	6

Definition of Terms :

R1	Results Of First Analysis
SP	Spike Concentration Added to Sample
MS	Matrix Spike Results
MSD	Matrix Spike Duplicate Results
PR1	Percent Recovery Of MS: {(MS-R1) / SP} x100
PR2	Percent Recovery Of MSD: {(MSD-R1) / SP} x 100
RPD	Relative Percent Difference: {(MS-MSD) / (MS+MSD)} x 100 x 2

INT m.n.

Orange Coast Analytical, Inc.

QC DATA REPORT

Analysis : Organochlorine Pesticides (EPA 8081)

Date of Analysis : 07/15/99
Laboratory Sample No : OCA 100
Laboratory Reference No : KJC 11008

Analyte	R1 (ppb)	SP (ppb)	MS (ppb)	MSD (ppb)	PR1 %	PR2 %	RPD %
4,4'-DDT	0.0	1.0	1.1	1.2	1.2	120	9

Definition of Terms :

R1	Results Of First Analysis
SP	Spike Concentration Added to Sample
MS	Matrix Spike Results
MSD	Matrix Spike Duplicate Results
PR1	Percent Recovery Of MS: {(MS-R1) / SP} x100
PR2	Percent Recovery Of MSD: {(MSD-R1) / SP} x 100
RPD	Relative Percent Difference: {(MS-MSD) / (MS+MSD)} x 100 x 2

INT m.n.

Orange Coast Analytical, Inc.

QC DATA REPORT

Analysis : Metals

Laboratory Reference No : KJC 11008

Analyte	Date Tested	QC Sample	R1 (ppm)	SP (ppm)	MS (ppm)	MSD (ppm)	PR1 %	PR2 %	RPD %
Antimony	07/14/99	99070202	0.00	1.00	1.03	1.13	103	113	9
Arsenic	07/14/99	99070202	0.00	1.00	1.03	1.09	103	109	6
Barium	07/14/99	99070202	0.10	0.100	0.194	0.194	95	95	0
Beryllium	07/14/99	99070202	0.00	0.100	0.106	0.106	106	106	0
Cadmium	07/14/99	99070202	0.00	0.100	0.097	0.098	97	98	1
Chromium (Total)	07/14/99	99070202	0.01	0.100	0.112	0.112	100	100	0
Chromium (VI)	07/14/99	OCA100	0.00	0.50	0.50	0.50	100	100	0
Cobalt	07/14/99	99070202	0.00	0.100	0.097	0.098	97	98	1
Copper	07/14/99	99070202	0.000	0.100	0.115	0.116	115	116	1
Lead	07/14/99	99070202	0.00	1.00	0.94	0.95	94	95	1
Mercury	07/15/99	OCA100	0.000	0.010	0.010	0.0093	100	93	7
Molybdenum	07/14/99	99070202	0.00	1.00	1.04	1.08	104	108	4
Nickel	07/14/99	99070202	0.00	0.500	0.49	0.50	98	100	2
Selenium	07/14/99	99070202	0.00	1.00	1.11	1.11	111	111	0
Silver	07/14/99	99070202	0.00	0.500	0.50	0.51	100	102	2
Thallium	07/14/99	99070202	0.00	1.00	1.15	1.07	115	107	7
Vanadium	07/14/99	99070202	0.00	0.500	0.518	0.520	104	104	0
Zinc	07/14/99	99070202	0.01	0.100	0.107	0.108	96	97	1

Definition of Terms :

R1	Results Of First Analysis
SP	Spike Concentration Added to Sample
MS	Matrix Spike Results
MSD	Matrix Spike Duplicate Results
PR1	Percent Recovery Of MS: {(MS-R1) / SP} x100
PR2	Percent Recovery Of MSD: {(MSD-R1) / SP} x 100
RPD	Relative Percent Difference: {(MS-MSD) / (MS+MSD)} x 100 x 2

INT m.n.

Orange Coast Analytical, Inc.

QC DATA REPORT

Analysis : Volatile Fuel Hydrocarbons

Date of Analysis : 07/14/99
Laboratory Sample No : 99070192
Laboratory Reference No : KJC 11008

Analyte	R1 (ppb)	SP (ppb)	MS (ppb)	MSD (ppb)	PR1 %	PR2 %	RPD %
Hydrocarbons	0.0	250	231	208	92	83	10

Definition of Terms :

R1	Results Of First Analysis
SP	Spike Concentration Added to Sample
MS	Matrix Spike Results
MSD	Matrix Spike Duplicate Results
PR1	Percent Recovery Of MS: {(MS-R1) / SP} x100
PR2	Percent Recovery Of MSD: {(MSD-R1) / SP} x 100
RPD	Relative Percent Difference: {(MS-MSD) / (MS+MSD)} x 100 x 2

INT M.N.

Orange Coast Analytical, Inc.

:ENNEDY/JENKS CONSULTANTS

:AMPLE CHAIN-OF-CUSTODY ANALYSIS REQUEST

[ ] 200 New Stine Rd., #116, Bakersfield, CA 93309
[ ] 530 South 336th St., Federal Way, WA 98003
[ ] 17310 Red Hill Ave., #220, Irvine, CA 92714
[ ] 2101 East Bayshore Rd., #200, Palo Alto, CA 94303
[ ] 6180 Neil Road, #300, Reno, NV 89502
[ ] 3338 Bradshaw Rd., #140, Sacramento, CA 95827
[ ] 303 Second St., San Francisco, CA 94107
[ ] 1000 Hill Rd., #200, Ventura, CA 93003

POSSIBLE HAZARDS:

Date 7-13-99

Source of Samples Boeing C-6

Sampler Name Shane Scrimshire

Phone 661-835-9785

Project No. 994001.00

Report To Rus Purcell

Company Kennedy/Jenks

Address 2151 Michelson Dr. #100

Irvine CA. 92612

Phone 949-261-1577

Lab Destination Orange Coast

Address

Phone

Carrier/Way Bill No.

(1) Lab ID No.	(1) Client ID No.	COLLECTION Date	COLLECTION Time	(2) Type	Depth	(3) Comp.	(4) Pres.	Turn-around	(5) ANALYSES REQUESTED: 8260 - VOCs	8015 diesel + gas	8270 - SVOCs	8080 - Pest	T-22 metals - Cd/Cr/Ni/Zn/Pb				Comment/Conditions (Container type, container number, etc.)
	TMW13-GW-2	7/13/99	1720	W	—	—	HCL HNO3	Norm.	X	X	X	X	X				
	TMW14-GW-2	"	1830	"	—	—	"	"	X	X	X	X	X				
	TMW15 GW-2	"	1925	"	—	—	"	"	X	X	X	X	X				
	WCC125-GW-2	"	2040	"	—	—	"	"	X	X	X	X	X				
	Trip Blank	"	—	"	—	—	"	"	X								

) Write only one sample number in each space.
) Specify type of sample(s): Water (W), Solid (S), or indicate type.
) Mark each sample which should be composited in Laboratory as follows: Place an "A" in box for each sample that should be composited into one sample; use sequential letter for additional groups.
) Preservation of sample.
) Write each analyses requested across top. Place an "X" in appropriate column to indicate type of analysis needed for each sample.

AMPLE RELINQUISHED BY:

Print Name	Signature	Company	Date	Time
Shane Scrimshire	Shane [illegible]	K/J	7/14/99	0710
MEHRAN HASHEMI	Mehran Hashemi	OCA	7/14/99	7:12 AM

SAMPLE RECEIVED BY:

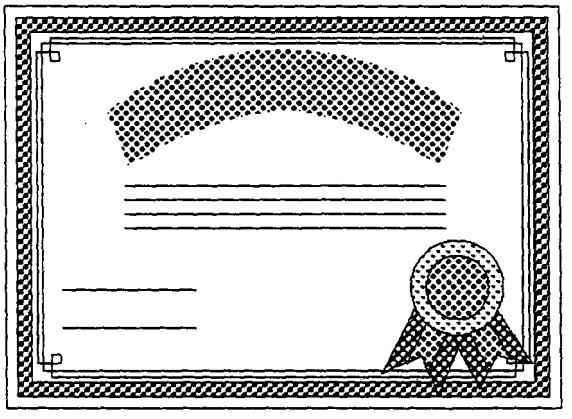
Print Name	Signature	Company	Date	Time

SC.CUSTODY2.FRM

000065 06

BOE-C6-0045789

ORANGE COAST ANALYTICAL, INC.
3002 Dow, Suite 532, Tustin, CA 92780 (714) 832-0064 Fax (714) 832-0067
4620 E. Elwood, Suite 4, Phoenix, AZ 85040 (602) 736-0960 Fax (602) 736-0970



ORANGE COAST ANALYTICAL THANKS YOU FOR YOUR BUSINESS

THE FOLLOWING PAGES ARE THE ANALYSIS REPORT

ON THE SAMPLES YOU REQUESTED.

IF YOU HAVE ANY QUESTIONS REGARDING THIS REPORT

PLEASE FEEL FREE TO CONTACT US.

ORANGE COAST ANALYTICAL, INC.
3002 Dow, Suite 532, Tustin, CA 92780 (714) 832-0064 Fax (714) 832-0067
4620 E. Elwood, Suite 4, Phoenix, AZ 85040 (602) 736-0960 Fax (602) 736-0970

LABORATORY REPORT FORM

Laboratory Name: ORANGE COAST ANALYTICAL, INC.

Address: 3002 Dow Suite 532 Tustin, CA 92780

Telephone: (714) 832-0064

Laboratory Certification
(ELAP) No.: 1416 Expiration Date: 2001

Laboratory Director's Name (Print) : Mark Noorani

Client: Kennedy Jenks Consultants

Project No.: Boeing C-6

Project Name: 994001.00

Laboratory Reference: KJC 11010

Analytical Method: 8260, Metals, 8080 Pesticides, 8270, 8015m gas, 8015m diesel

Date Sampled: 07/14/99
Date Received: 07/14/99
Date Reported: 07/20/99

Sample Matrix: Water

Chain of Custody Received: Yes

Laboratory Director's Signature: Mark Noorani

Kennedy Jenks Consultants
ATTN: Mr. Rus Purcell
2151 Michelson Dr. Suite 100
Irvine, CA 92612

Client Project ID: Boeing C-6
Client Project #: 994001.00

SAMPLE DESCRIPTION (Water)

Laboratory Reference #: KJC 11010

Sampled:	---	07/14/99	07/14/99
Received:	---	07/14/99	07/14/99
Analyzed:	07/15/99	07/15/99	07/15/99
Reported:	07/20/99	07/20/99	07/20/99
Lab Sample I.D.	MB	99070206	99070207
Client Sample I.D.	---	WCC7S -GW-2	WCC4S -GW-2

VOLATILE ORGANICS BY GC/MS (EPA 8260)

ANALYTE	***CAS NUMBER***	***DETECTION LIMIT***		***SAMPLE RESULTS***	
		µg/l	***µg/l***	***µg/l***	***µg/l***
Benzene	71-43-2	0.5	<0.5	<1.0	<10
Bromodichloromethane	75-27-4	1.0	<1.0	<2.0	<20
Bromoform	75-25-2	0.5	<0.5	<1.0	<10
Bromomethane	74-83-9	1.0	<1.0	<2.0	<20
Carbon Disulfide	75-15-0	0.5	<0.5	<1.0	<10
Carbon tetrachloride	56-23-5	0.5	<0.5	<1.0	<10
Chlorobenzene	108-90-7	0.5	<0.5	<1.0	<10
Chlorodibromomethane	124-48-1	0.5	<0.5	<1.0	<10
Chloroethane	75-00-3	0.5	<0.5	<1.0	<10
2-Chloroethyl vinyl ether	110-75-8	0.5	<0.5	<1.0	<10
Chloroform	67-66-3	0.5	<0.5	<1.0	<10
Chloromethane	74-87-3	0.5	<0.5	<1.0	<10
1,1-Dichloroethane	75-34-3	0.5	<0.5	<1.0	<10
1,2-Dichloroethane	107-06-2	0.5	<0.5	<1.0	<10
1,1-Dichloroethene	75-35-4	0.5	<0.5	32	2,100
trans-1,2-Dichloroethene	156-60-5	0.5	<0.5	<1.0	19
1,2-Dichloropropane	78-87-5	0.5	<0.5	<1.0	<10
cis-1,3-Dichloropropene	10061-01-5	0.5	<0.5	<1.0	<10
trans-1,3-Dichloropropene	10061-02-6	0.5	<0.5	<1.0	<10
Ethylbenzene	100-41-4	0.5	<0.5	<1.0	<10
Methylene chloride	75-09-2	2.5	<2.5	<5.0	<50
Styrene	100-42-5	0.5	<0.5	<1.0	<10
1,1,2,2-Tetrachloroethane	79-34-5	0.5	<0.5	<1.0	<10
Tetrachloroethene	127-18-4	0.5	<0.5	<1.0	<10
Toluene	108-88-3	0.5	<0.5	<1.0	<10
1,1,1-Trichloroethane	71-55-6	0.5	<0.5	<1.0	<10
1,1,2-Trichloroethane	79-00-5	0.5	<0.5	<1.0	<10
Trichloroethene	79-01-6	0.5	<0.5	120	1,500
Trichlorofluoromethane	75-69-4	0.5	<0.5	<1.0	<10
Vinyl acetate	108-05-4	1.0	<1.0	<2.0	<20
Vinyl chloride	75-01-4	0.5	<0.5	<1.0	<10
Total Xylenes	1330-20-7	1.0	<1.0	<2.0	<20
Dichlorodifluoromethane	75-71-8	0.5	<0.5	<1.0	<10
cis-1,2-Dichloroethene	156-59-2	0.5	<0.5	9.3	12
2,2-Dichloropropane	594-20-7	0.5	<0.5	<1.0	<10

INT

Orange Coast Analytical, Inc

VOLATILE ORGANICS BY GC/MS (EPA 8260) (continued)

Laboratory Reference #: KJC 11010

Client Project ID: Boeing C-6

Client Project #: 994001

Sampled:	---	07/14/99	07/14/99
Received:	---	07/14/99	07/14/99
Analyzed:	07/15/99	07/15/99	07/15/99
Reported:	07/20/99	07/20/99	07/20/99

SAMPLE DESCRIPTION (Water)

Lab Sample I.D.	MB	99070206	99070207
Client Sample I.D.	---	WCC7S -GW-2	WCC4S -GW-2

ANALYTE (CONT)	***CAS NUMBER***	***DETECTION LIMIT***	***SAMPLE RESULTS***		
		ug/l	***ug/l***	***ug/l***	***ug/l***
Bromochloromethane	74-97-5	0.5	<0.5	<1.0	<10
1,1-Dichloropropene	563-58-6	0.5	<0.5	<1.0	<10
Dibromomethane	74-95-3	0.5	<0.5	<1.0	<10
1,2-Dibromoethane	106-93-4	0.5	<0.5	<1.0	<10
1,3-Dichloropropane	142-28-9	0.5	<0.5	<1.0	<10
Isopropylbenzene	98-82-8	0.5	<0.5	<1.0	<10
1,1,2,2-Tetrachloroethane	79-34-5	0.5	<0.5	<1.0	<10
1,2,3-Trichloropropane	96-18-4	0.5	<0.5	<1.0	<10
Bromobenzene	108-86-1	0.5	<0.5	<1.0	<10
n-Propylbenzene	103-65-1	0.5	<0.5	<1.0	<10
2-Chlorotoluene	95-49-8	0.5	<0.5	<1.0	<10
1,3,5-Trimethylbenzene	108-67-8	0.5	<0.5	<1.0	<10
4-Chlorotoluene	106-43-4	0.5	<0.5	<1.0	<10
tert-Butylbenzene	98-06-6	0.5	<0.5	<1.0	<10
1,2,4-Trimethylbenzene	95-63-6	0.5	<0.5	<1.0	<10
sec-Butylbenzene	135-98-8	0.5	<0.5	<1.0	<10
4-Isopropyltoluene	99-87-6	0.5	<0.5	<1.0	<10
1,3-Dichlorobenzene	541-73-1	0.5	<0.5	<1.0	<10
1,4-Dichlorobenzene	106-46-7	0.5	<0.5	<1.0	<10
n-Butylbenzene	104-51-8	0.5	<0.5	<1.0	<10
1,2-Dichlorobenzene	95-50-1	0.5	<0.5	<1.0	<10
1-2-Dibromo-3-CPA	96-12-8	1.0	<1.0	<2.0	<20
1,2,4-Trichlorobenzene	120-82-1	0.5	<0.5	<1.0	<10
Hexachlorobutadiene	87-68-3	0.5	<0.5	<1.0	<10
Naphthalene	91-20-3	0.5	<0.5	<1.0	<10
1,2,3-Trichlorobenzene	87-61-6	0.5	<0.5	<1.0	<10

SURROGATE RECOVERY	%RC	%RC	%RC
Dibromofluoromethane	91	92	90
Toluene-d8	94	96	97
4-Bromofluorobenzene	95	97	97

INT-m.n.

Orange Coast Analytical, Inc

Kennedy Jenks Consultants
ATTN: Mr. Rus Purcell
2151 Michelson Dr. Suite 100
Irvine, CA 92612

Client Project ID: Boeing C-6
Client Project #: 994001.00

SAMPLE DESCRIPTION (Water)

Laboratory Reference #: KJC 11010

Sampled:	07/14/99	07/14/99	07/14/99
Received:	07/14/99	07/14/99	07/14/99
Analyzed:	07/15/99	07/16/99	07/15/99
Reported:	07/20/99	07/20/99	07/20/99
Lab Sample I.D.	99070208	99070209	99070210
Client Sample I.D.	WCC11S -GW-2	WCC10S -GW-2	Trip Blank

VOLATILE ORGANICS BY GC/MS (EPA 8260)

ANALYTE	***CAS NUMBER***	***DETECTION LIMIT µg/l***	***SAMPLE RESULTS***		
			µg/l	***µg/l***	***µg/l***
Benzene	71-43-2	0.5	<0.5	<1.0	<0.5
Bromodichloromethane	75-27-4	1.0	<1.0	<2.0	<1.0
Bromoform	75-25-2	0.5	<0.5	<1.0	<0.5
Bromomethane	74-83-9	1.0	<1.0	<2.0	<1.0
Carbon Disulfide	75-15-0	0.5	<0.5	<1.0	<0.5
Carbon tetrachloride	56-23-5	0.5	1.1	<1.0	<0.5
Chlorobenzene	108-90-7	0.5	<0.5	<1.0	<0.5
Chlorodibromomethane	124-48-1	0.5	<0.5	<1.0	<0.5
Chloroethane	75-00-3	0.5	<0.5	<1.0	<0.5
2-Chloroethyl vinyl ether	110-75-8	0.5	<0.5	<1.0	<0.5
Chloroform	67-66-3	0.5	2.8	<1.0	<0.5
Chloromethane	74-87-3	0.5	<0.5	<1.0	<0.5
1,1-Dichloroethane	75-34-3	0.5	<0.5	<1.0	<0.5
1,2-Dichloroethane	107-06-2	0.5	<0.5	<1.0	<0.5
1,1-Dichloroethene	75-35-4	0.5	38	190	<0.5
trans-1,2-Dichloroethene	156-60-5	0.5	<0.5	<1.0	<0.5
1,2-Dichloropropane	78-87-5	0.5	<0.5	<1.0	<0.5
cis-1,3-Dichloropropene	10061-01-5	0.5	<0.5	<1.0	<0.5
trans-1,3-Dichloropropene	10061-02-6	0.5	<0.5	<1.0	<0.5
Ethylbenzene	100-41-4	0.5	<0.5	<1.0	<0.5
Methylene chloride	75-09-2	2.5	<2.5	<5.0	<2.5
Styrene	100-42-5	0.5	<0.5	<1.0	<0.5
1,1,2,2-Tetrachloroethane	79-34-5	0.5	<0.5	<1.0	<0.5
Tetrachloroethene	127-18-4	0.5	3.1	<1.0	<0.5
Toluene	108-88-3	0.5	<0.5	<1.0	<0.5
1,1,1-Trichloroethane	71-55-6	0.5	<0.5	<1.0	<0.5
1,1,2-Trichloroethane	79-00-5	0.5	<0.5	1.2	<0.5
Trichloroethene	79-01-6	0.5	170	200	<0.5
Trichlorofluoromethane	75-69-4	0.5	<0.5	<1.0	<0.5
Vinyl acetate	108-05-4	1.0	<1.0	<2.0	<1.0
Vinyl chloride	75-01-4	0.5	<0.5	<1.0	<0.5
Total Xylenes	1330-20-7	1.0	<1.0	<2.0	<1.0
Dichlorodifluoromethane	75-71-8	0.5	<0.5	<1.0	<0.5
cis-1,2-Dichloroethene	156-59-2	0.5	1.2	1.3	<0.5
2,2-Dichloropropane	594-20-7	0.5	<0.5	<1.0	<0.5

VOLATILE ORGANICS BY GC/MS (EPA 8260) (continued)

Laboratory Reference #: KJC 11010

Client Project ID: Boeing C-6
Client Project #: 994001

Sampled:	07/14/99	07/14/99	07/14/99
Received:	07/14/99	07/14/99	07/14/99
Analyzed:	07/15/99	07/16/99	07/15/99
Reported:	07/20/99	07/20/99	07/20/99

		Lab Sample I.D.	99070208	99070209	99070210
		Client Sample I.D.	WCC11S -GW-2	WCC10S -GW-2	Trip Blank
ANALYTE (CONT)	***CAS NUMBER***	***DETECTION LIMIT***		***SAMPLE RESULTS***	
		ug/l	***ug/l***	***ug/l***	***ug/l***
Bromochloromethane	74-97-5	0.5	<0.5	<1.0	<0.5
1,1-Dichloropropene	563-58-6	0.5	<0.5	<1.0	<0.5
Dibromomethane	74-95-3	0.5	<0.5	<1.0	<0.5
1,2-Dibromoethane	106-93-4	0.5	<0.5	<1.0	<0.5
1,3-Dichloropropane	142-28-9	0.5	<0.5	<1.0	<0.5
Isopropylbenzene	98-82-8	0.5	<0.5	<1.0	<0.5
1,1,2,2-Tetrachloroethane	79-34-5	0.5	<0.5	<1.0	<0.5
1,2,3-Trichloropropane	96-18-4	0.5	<0.5	<1.0	<0.5
Bromobenzene	108-86-1	0.5	<0.5	<1.0	<0.5
n-Propylbenzene	103-65-1	0.5	<0.5	<1.0	<0.5
2-Chlorotoluene	95-49-8	0.5	<0.5	<1.0	<0.5
1,3,5-Trimethylbenzene	108-67-8	0.5	<0.5	<1.0	<0.5
4-Chlorotoluene	106-43-4	0.5	<0.5	<1.0	<0.5
tert-Butylbenzene	98-06-6	0.5	<0.5	<1.0	<0.5
1,2,4-Trimethylbenzene	95-63-6	0.5	<0.5	<1.0	<0.5
sec-Butylbenzene	135-98-8	0.5	<0.5	<1.0	<0.5
4-Isopropyltoluene	99-87-6	0.5	<0.5	<1.0	<0.5
1,3-Dichlorobenzene	541-73-1	0.5	<0.5	<1.0	<0.5
1,4-Dichlorobenzene	106-46-7	0.5	<0.5	<1.0	<0.5
n-Butylbenzene	104-51-8	0.5	<0.5	<1.0	<0.5
1,2-Dichlorobenzene	95-50-1	0.5	<0.5	<1.0	<0.5
1-2-Dibromo-3-CPA	96-12-8	1.0	<1.0	<2.0	<1.0
1,2,4-Trichlorobenzene	120-82-1	0.5	<0.5	<1.0	<0.5
Hexachlorobutadiene	87-68-3	0.5	<0.5	<1.0	<0.5
Naphthalene	91-20-3	0.5	<0.5	<1.0	<0.5
1,2,3-Trichlorobenzene	87-61-6	0.5	<0.5	<1.0	<0.5

SURROGATE RECOVERY	%RC	%RC	%RC
Dibromofluoromethane	93	86	87
Toluene-d8	98	94	97
4-Bromofluorobenzene	98	94	95

INT-

Kennedy Jenks Consultants
ATTN: Mr. Rus Purcell
2151 Michelson Dr. Suite 100
Irvine, CA 92612

Client Project ID: Boeing C-6
Client Project #: 994001.00

Sample Description: Water,

Laboratory Reference #: KJC 11010

Sampled: 07/14/99
Received: 07/14/99
Analyzed: 07/16/99
Reported: 07/20/99

VOLATILE FUEL HYDROCARBONS (EPA 8015m)

LABORATORY SAMPLE NUMBER	***CLIENT SAMPLE NUMBER***	***SAMPLE RESULTS µg/l***
99070206	WCC7S-GW-2	64
99070207	WCC4S-GW-2	240
99070208	WCC11S-GW-2	70
99070209	WCC10S-GW-2	77
Detection Limit:		50

Volatile Fuel Hydrocarbons are quantitated against a gasoline standard. Hydrocarbons detected by this method range from C6 to C14. Analyte reported as N.D. was not present above the stated limit of detections.

INT m.m.

Orange Coast Analytical, Inc.

Kennedy Jenks Consultants
ATTN: Mr. Rus Purcell
2151 Michelson Dr. Suite 100
Irvine, CA 92612

Client Project ID: Boeing C-6
Client Project #: 994001.00

Sampled: 07/14/99
Received: 07/14/99
Analyzed: 07/19/99
Reported: 07/20/99

Sample Description: Water,

Laboratory Reference #: KJC 11010

DIESEL (EPA 8015m)

LABORATORY SAMPLE NUMBER	***CLIENT SAMPLE NUMBER***	***SAMPLE RESULTS mg/l***
99070206	WCC7S-GW-2	N.D.
99070207	WCC4S-GW-2	N.D.
99070208	WCC11S-GW-2	N.D.
99070209	WCC10S-GW-2	N.D.

Detection Limit:	0.5

Analyte reported as N.D. was not present above the stated limit of detection.

INT m.n.

Orange Coast Analytical, Inc.

Kennedy Jenks Consultants
ATTN: Mr. Rus Purcell
2151 Michelson Dr. Suite 100
Irvine, CA 92612

Client Project ID: Boeing C-6
Client Project #: 994001.00

SAMPLE DESCRIPTION (Water)

Laboratory Reference #: KJC 11010

Sampled:	---	07/14/99	07/14/99
Received:	---	07/14/99	07/14/99
Analyzed:	07/15/99	07/15/99	07/15/99
Reported:	07/20/99	07/20/99	07/20/99
Lab Sample I.D.	MB	99070206	99070207
Client Sample I.D.	---	WCC7S -GW-2	WCC4S -GW-2

SEMI VOLATILE ORGANICS BY GC/MS (EPA 8270)

ANALYTE	***CAS NUMBER***	***DETECTION LIMIT***		***SAMPLE RESULTS***	
		µg/l	***µg/l***	***µg/l***	***µg/l***
Acenaphthene	83-32-9	5.0	<5.0	<5.0	<5.0
Acenaphthylene	208-96-8	5.0	<5.0	<5.0	<5.0
Aniline	62-53-3	5.0	<5.0	<5.0	<5.0
Anthracene	120-12-7	5.0	<5.0	<5.0	<5.0
Benzoic acid	65-85-0	50	<50	<50	<50
Benzo (a) anthracene	56-55-3	5.0	<5.0	<5.0	<5.0
Benzo (b) fluoranthene	205-99-2	25	<25	<25	<25
Benzo (k) fluoranthene	207-08-9	25	<25	<25	<25
Benzo (g,h,i) perylene	191-24-2	25	<25	<25	<25
Benzo (a) pyrene	50-32-8	25	<25	<25	<25
Benzyl alcohol	100-51-6	5.0	<5.0	<5.0	<5.0
bis-(2-chloroethoxy) methane	111-91-1	5.0	<5.0	<5.0	<5.0
bis-(2-chloroethyl) ether	111-44-4	5.0	<5.0	<5.0	<5.0
bis-(2-chloroisopropyl) ether	108-60-1	5.0	<5.0	<5.0	<5.0
bis-(2-ethylhexyl) phthalate	117-81-7	3.0	<3.0	<3.0	<3.0
4-Bromophenyl phenyl ether	101-55-3	5.0	<5.0	<5.0	<5.0
Butyl benzyl phthalate	85-68-7	5.0	<5.0	<5.0	<5.0
4-Chloroaniline	106-47-8	5.0	<5.0	<5.0	<5.0
2-Chloronaphthalene	91-58-7	5.0	<5.0	<5.0	<5.0
4-Chloro-3-methylphenol	59-50-7	5.0	<5.0	<5.0	<5.0
2-Chlorophenol	95-57-8	5.0	<5.0	<5.0	<5.0
4-Chlorophenyl phenyl ether	7005-72-3	5.0	<5.0	<5.0	<5.0
Chrysene	218-01-9	5.0	<5.0	<5.0	<5.0
Dibenz (a,h) anthracene	53-70-3	25	<25	<25	<25
Dibenzofuran	132-64-9	5.0	<5.0	<5.0	<5.0
Di-n-butyl phthalate	84-74-2	5.0	<5.0	<5.0	<5.0
1,3-Dichlorobenzene	541-73-1	5.0	<5.0	<5.0	<5.0
1,4-Dichlorobenzene	106-46-7	5.0	<5.0	<5.0	<5.0
1,2-Dichlorobenzene	95-50-1	5.0	<5.0	<5.0	<5.0
3,3-Dichlorobenzidine	91-94-1	5.0	<5.0	<5.0	<5.0
2,4-Dichlorophenol	120-83-2	5.0	<5.0	<5.0	<5.0
Diethyl phthalate	84-66-2	5.0	<5.0	<5.0	<5.0
2,4-Dimethylphenol	105-67-9	5.0	<5.0	<5.0	<5.0
Dimethyl phthalate	131-11-3	5.0	<5.0	<5.0	<5.0
4,6-Dinitro-2-methylphenol	534-52-1	50	<50	<50	<50

INT-

SEMI-VOLATILE ORGANICS BY GC/MS (EPA 8270) (continued)

Laboratory Reference #: KJC 11010

Client Project ID: Boeing C-6
Client Project #: 994001

Sampled:	---	07/14/99	07/14/99
Received:	---	07/14/99	07/14/99
Analyzed:	07/15/99	07/15/99	07/15/99
Reported:	07/20/99	07/20/99	07/20/99
		SAMPLE DESCRIPTION (Water)	
Lab Sample I.D.	MB	99070206	99070207
Client Sample I.D.	---	WCC7S -GW-2	WCC4S -GW-2

ANALYTE (CONT)	***CAS NUMBER***	***DETECTION LIMIT***		***SAMPLE RESULTS***	
		ug/l	***ug/l***	***ug/l***	***ug/l***
2,4-Dinitrophenol	51-28-5	50	<50	<50	<50
2,4-Dinitrotoluene	121-14-2	5.0	<5.0	<5.0	<5.0
2,6-Dinitrotoluene	606-20-2	5.0	<5.0	<5.0	<5.0
Di-n-octyl phthalate	117-84-0	25	<25	<25	<25
Fluoranthene	206-44-0	5.0	<5.0	<5.0	<5.0
Fluorene	86-73-7	5.0	<5.0	<5.0	<5.0
Hexachlorobenzene	118-74-1	5.0	<5.0	<5.0	<5.0
Hexachlorobutadiene	87-68-3	5.0	<5.0	<5.0	<5.0
Hexachlorocyclopentadiene	77-47-4	5.0	<5.0	<5.0	<5.0
Hexachloroethane	67-72-1	5.0	<5.0	<5.0	<5.0
Indeno (1,2,3-cd) pyrene	193-39-5	25	<25	<25	<25
Isophorone	78-59-1	5.0	<5.0	<5.0	<5.0
2-Methylnaphthalene	91-57-6	5.0	<5.0	<5.0	<5.0
2-Methylphenol	95-48-7	5.0	<5.0	<5.0	<5.0
4-Methylphenol	106-44-5	5.0	<5.0	<5.0	<5.0
Naphthalene	91-20-3	5.0	<5.0	<5.0	<5.0
2-Nitroaniline	88-74-4	50	<50	<50	<50
3-Nitroaniline	99-09-2	50	<50	<50	<50
4-Nitroaniline	100-01-6	50	<50	<50	<50
Nitrobenzene	98-95-3	5.0	<5.0	<5.0	<5.0
2-Nitrophenol	88-75-5	5.0	<5.0	<5.0	<5.0
4-Nitrophenol	100-02-7	50	<50	<50	<50
n-Nitrosodiphenylamine	86-30-6	5.0	<5.0	<5.0	<5.0
n-Nitrosodipropylamine	621-64-7	5.0	<5.0	<5.0	<5.0
n-Nitrosodimethylamine	62-75-9	5.0	<5.0	<5.0	<5.0
Pentachlorophenol	87-86-5	50	<50	<50	<50
Phenanthrene	85-01-8	5.0	<5.0	<5.0	<5.0
Phenol	108-95-2	5.0	<5.0	<5.0	<5.0
Pyrene	129-00-0	5.0	<5.0	<5.0	<5.0
1,2,4-Trichlorobenzene	120-82-1	5.0	<5.0	<5.0	<5.0
2,4,5-trichlorophenol	95-95-4	5.0	<5.0	<5.0	<5.0
2,4,6-Trichlorophenol	88-06-2	5.0	<5.0	<5.0	<5.0

Kennedy Jenks Consultants
ATTN: Mr. Rus Purcell
2151 Michelson Dr. Suite 100
Irvine, CA 92612

Client Project ID: Boeing C-6
Client Project #: 994001.00

SAMPLE DESCRIPTION (Water)

Laboratory Reference #: KJC 11010

Sampled:	07/14/99	07/14/99	07/14/99
Received:	07/14/99	07/14/99	07/14/99
Analyzed:	07/16/99	07/16/99	07/16/99
Reported:	07/20/99	07/20/99	07/20/99
Lab Sample I.D.	MB	99070208	99070209
Client Sample I.D.	---	WCC11S -GW-2	WCC10S -GW-2

SEMI VOLATILE ORGANICS BY GC/MS (EPA 8270)

ANALYTE	***CAS NUMBER***	***DETECTION LIMIT***	***SAMPLE RESULTS***		
		µg/l	***µg/l***	***µg/l***	***µg/l***
Acenaphthene	83-32-9	5.0	<5.0	<5.0	<5.0
Acenaphthylene	208-96-8	5.0	<5.0	<5.0	<5.0
Aniline	62-53-3	5.0	<5.0	<5.0	<5.0
Anthracene	120-12-7	5.0	<5.0	<5.0	<5.0
Benzoic acid	65-85-0	50	<50	<50	<50
Benzo (a) anthracene	56-55-3	5.0	<5.0	<5.0	<5.0
Benzo (b) fluoranthene	205-99-2	25	<25	<25	<25
Benzo (k) fluoranthene	207-08-9	25	<25	<25	<25
Benzo (g,h,i) perylene	191-24-2	25	<25	<25	<25
Benzo (a) pyrene	50-32-8	25	<25	<25	<25
Benzyl alcohol	100-51-6	5.0	<5.0	<5.0	<5.0
bis-(2-chloroethoxy) methane	111-91-1	5.0	<5.0	<5.0	<5.0
bis-(2-chloroethyl) ether	111-44-4	5.0	<5.0	<5.0	<5.0
bis-(2-chloroisopropyl) ether	108-60-1	5.0	<5.0	<5.0	<5.0
bis-(2-ethylhexyl) phthalate	117-81-7	3.0	<3.0	<3.0	<3.0
4-Bromophenyl phenyl ether	101-55-3	5.0	<5.0	<5.0	<5.0
Butyl benzyl phthalate	85-68-7	5.0	<5.0	<5.0	<5.0
4-Chloroaniline	106-47-8	5.0	<5.0	<5.0	<5.0
2-Chloronaphthalene	91-58-7	5.0	<5.0	<5.0	<5.0
4-Chloro-3-methylphenol	59-50-7	5.0	<5.0	<5.0	<5.0
2-Chlorophenol	95-57-8	5.0	<5.0	<5.0	<5.0
4-Chlorophenyl phenyl ether	7005-72-3	5.0	<5.0	<5.0	<5.0
Chrysene	218-01-9	5.0	<5.0	<5.0	<5.0
Dibenz (a,h) anthracene	53-70-3	25	<25	<25	<25
Dibenzofuran	132-64-9	5.0	<5.0	<5.0	<5.0
Di-n-butyl phthalate	84-74-2	5.0	<5.0	<5.0	<5.0
1,3-Dichlorobenzene	541-73-1	5.0	<5.0	<5.0	<5.0
1,4-Dichlorobenzene	106-46-7	5.0	<5.0	<5.0	<5.0
1,2-Dichlorobenzene	95-50-1	5.0	<5.0	<5.0	<5.0
3,3-Dichlorobenzidine	91-94-1	5.0	<5.0	<5.0	<5.0
2,4-Dichlorophenol	120-83-2	5.0	<5.0	<5.0	<5.0
Diethyl phthalate	84-66-2	5.0	<5.0	<5.0	<5.0
2,4-Dimethylphenol	105-67-9	5.0	<5.0	<5.0	<5.0
Dimethyl phthalate	131-11-3	5.0	<5.0	<5.0	<5.0
4,6-Dinitro-2-methylphenol	534-52-1	50	<50	<50	<50

SEMI-VOLATILE ORGANICS BY GC/MS (EPA 8270) (continued)

Laboratory Reference #: KJC 11010

Client Project ID: Boeing C-6
Client Project #: 994001

Sampled:	07/14/99	07/14/99	07/14/99
Received:	07/14/99	07/14/99	07/14/99
Analyzed:	07/16/99	07/16/99	07/16/99
Reported:	07/20/99	07/20/99	07/20/99
		SAMPLE DESCRIPTION (Water)	
Lab Sample I.D.	MB	99070208	99070209
Client Sample I.D.	---	WCC11S -GW-2	WCC10S -GW-2

ANALYTE (CONT)	***CAS NUMBER***	***DETECTION LIMIT***	***SAMPLE RESULTS***		
		ug/l	***ug/l***	***ug/l***	***ug/l***
2,4-Dinitrophenol	51-28-5	50	<50	<50	<50
2,4-Dinitrotoluene	121-14-2	5.0	<5.0	<5.0	<5.0
2,6-Dinitrotoluene	606-20-2	5.0	<5.0	<5.0	<5.0
Di-n-octyl phthalate	117-84-0	25	<25	<25	<25
Fluoranthene	206-44-0	5.0	<5.0	<5.0	<5.0
Fluorene	86-73-7	5.0	<5.0	<5.0	<5.0
Hexachlorobenzene	118-74-1	5.0	<5.0	<5.0	<5.0
Hexachlorobutadiene	87-68-3	5.0	<5.0	<5.0	<5.0
Hexachlorocyclopentadiene	77-47-4	5.0	<5.0	<5.0	<5.0
Hexachloroethane	67-72-1	5.0	<5.0	<5.0	<5.0
Indeno (1,2,3-cd) pyrene	193-39-5	25	<25	<25	<25
Isophorone	78-59-1	5.0	<5.0	<5.0	<5.0
2-Methylnaphthalene	91-57-6	5.0	<5.0	<5.0	<5.0
2-Methylphenol	95-48-7	5.0	<5.0	<5.0	<5.0
4-Methylphenol	106-44-5	5.0	<5.0	<5.0	<5.0
Naphthalene	91-20-3	5.0	<5.0	<5.0	<5.0
2-Nitroaniline	88-74-4	50	<50	<50	<50
3-Nitroaniline	99-09-2	50	<50	<50	<50
4-Nitroaniline	100-01-6	50	<50	<50	<50
Nitrobenzene	98-95-3	5.0	<5.0	<5.0	<5.0
2-Nitrophenol	88-75-5	5.0	<5.0	<5.0	<5.0
4-Nitrophenol	100-02-7	50	<50	<50	<50
n-Nitrosodiphenylamine	86-30-6	5.0	<5.0	<5.0	<5.0
n-Nitrosodipropylamine	621-64-7	5.0	<5.0	<5.0	<5.0
n-Nitrosodimethylamine	62-75-9	5.0	<5.0	<5.0	<5.0
Pentachlorophenol	87-86-5	50	<50	<50	<50
Phenanthrene	85-01-8	5.0	<5.0	<5.0	<5.0
Phenol	108-95-2	5.0	<5.0	<5.0	<5.0
Pyrene	129-00-0	5.0	<5.0	<5.0	<5.0
1,2,4-Trichlorobenzene	120-82-1	5.0	<5.0	<5.0	<5.0
2,4,5-trichlorophenol	95-95-4	5.0	<5.0	<5.0	<5.0
2,4,6-Trichlorophenol	88-06-2	5.0	<5.0	<5.0	<5.0

Kennedy Jenks Consultants
ATTN: Mr. Rus Purcell
2151 Michelson Dr. Suite 100
Irvine, CA 92612

Client Project ID: Boeing C-6
Client Project #: 994001.00

SAMPLE DESCRIPTION (Water)

Laboratory Reference #: KJC 11010

Sampled:	---	07/14/99	07/14/99
Received:	---	07/14/99	07/14/99
Analyzed:	07/15/99	07/15/99	07/15/99
Reported:	07/20/99	07/20/99	07/20/99
Lab Sample I.D.	MB	99070206	99070207
Client Sample I.D.	---	WCC7S -GW-2	WCC4S -GW-2

ORGANOCHLORINATED PESTICIDES (EPA 8081)

ANALYTE	***CAS NUMBER***	***DETECTION LIMIT µg/l***	***SAMPLE RESULTS***		
			µg/l	***µg/l***	***µg/l***
Aldrin	309-00-2	0.1	<0.1	<0.1	<0.1
alpha-BHC	319-84-6	0.2	<0.2	<0.2	<0.2
beta-BHC	319-85-7	0.2	<0.2	<0.2	<0.2
delta-BHC	319-86-8	0.2	<0.2	<0.2	<0.2
gamma-BHC (Lindane)	58-89-9	0.2	<0.2	<0.2	<0.2
Chlordane	57-74-9	0.2	<0.2	<0.2	<0.2
4,4'-DDD	72-54-8	0.5	<0.5	<0.5	<0.5
4,4'-DDE	72-55-9	0.1	<0.1	<0.1	<0.1
4,4'-DDT	50-29-3	0.1	<0.1	<0.1	<0.1
Dieldrin	60-57-1	0.5	<0.5	<0.5	<0.5
Endosulfan I	959-98-8	0.5	<0.5	<0.5	<0.5
Endosulfan II	33212-65-9	0.5	<0.5	<0.5	<0.5
Endosulfan sulfate	1031-07-8	0.5	<0.5	<0.5	<0.5
Endrin	72-20-8	0.02	<0.02	<0.02	<0.02
Endrin aldehyde	7421-93-4	0.2	<0.2	<0.2	<0.2
Heptachlor	76-44-8	0.1	<0.1	<0.1	<0.1
Heptachlor epoxide	1024-57-3	0.2	<0.2	<0.2	<0.2
Methoxychlor	72-43-5	9.0	<9.0	<9.0	<9.0
Toxaphene	8001-35-2	0.5	<0.5	<0.5	<0.5

Kennedy Jenks Consultants
ATTN: Mr. Rus Purcell
2151 Michelson Dr. Suite 100
Irvine, CA 92612

Client Project ID: Boeing C-6
Client Project #: 994001.00

SAMPLE DESCRIPTION (Water)

Laboratory Reference #: KJC 11010

Sampled:	07/14/99	07/14/99
Received:	07/14/99	07/14/99
Analyzed:	07/15/99	07/15/99
Reported:	07/20/99	07/20/99
Lab Sample I.D.	99070208	99070209
Client Sample I.D.	WCC11S -GW-2	WCC10S -GW-2

ORGANOCHLORINATED PESTICIDES (EPA 8081)

ANALYTE	***CAS NUMBER***	***DETECTION LIMIT µg/l***	***SAMPLE RESULTS µg/l***	***µg/l***
Aldrin	309-00-2	0.1	<0.1	<0.1
alpha-BHC	319-84-6	0.2	<0.2	<0.2
beta-BHC	319-85-7	0.2	<0.2	<0.2
delta-BHC	319-86-8	0.2	<0.2	<0.2
gamma-BHC (Lindane)	58-89-9	0.2	<0.2	<0.2
Chlordane	57-74-9	0.2	<0.2	<0.2
4,4'-DDD	72-54-8	0.5	<0.5	<0.5
4,4'-DDE	72-55-9	0.1	<0.1	<0.1
4,4'-DDT	50-29-3	0.1	<0.1	<0.1
Dieldrin	60-57-1	0.5	<0.5	<0.5
Endosulfan I	959-98-8	0.5	<0.5	<0.5
Endosulfan II	33212-65-9	0.5	<0.5	<0.5
Endosulfan sulfate	1031-07-8	0.5	<0.5	<0.5
Endrin	72-20-8	0.02	<0.02	<0.02
Endrin aldehyde	7421-93-4	0.2	<0.2	<0.2
Heptachlor	76-44-8	0.1	<0.1	<0.1
Heptachlor epoxide	1024-57-3	0.2	<0.2	<0.2
Methoxychlor	72-43-5	9.0	<9.0	<9.0
Toxaphene	8001-35-2	0.5	<0.5	<0.5

INT-

Orange Coast Analytical, Inc

Kennedy Jenks Consultants
ATTN: Mr. Rus Purcell
2151 Michelson Dr. Suite 100
Irvine, CA 92612

Client Project ID: Boeing C-6
Client Project #: 994001.00

SAMPLE DESCRIPTION (Water)

Laboratory Reference #: KJC 11010

Sampled:	---	07/14/99	07/14/99
Received:	---	07/14/99	07/14/99
Reported:	07/20/99	07/20/99	07/20/99
Lab Sample I.D.	MB	99070206	99070207
Client Sample I.D.	---	WCC7S -GW-2	WCC4S -GW-2

CCR METALS

ANALYTE	***DATE TESTED***	***EPA METHOD***	***DETECTION LIMIT mg/l***	***SAMPLE RESULTS***		
				mg/l	***mg/l***	***mg/l***
Antimony	07/16/99	6010	0.1	<0.1	<0.1	<0.1
Arsenic	07/16/99	6010	0.1	<0.1	<0.1	<0.1
Barium	07/16/99	6010	0.01	<0.01	0.082	0.28
Beryllium	07/16/99	6010	0.01	<0.01	<0.01	<0.01
Cadmium	07/16/99	6010	0.01	<0.01	<0.01	<0.01
Chromium (VI)	07/14/99	7196	0.01	<0.01	<0.01	<0.01
Chromium (Total)	07/16/99	6010	0.01	<0.01	0.014	0.012
Cobalt	07/16/99	6010	0.01	<0.01	<0.01	<0.01
Copper	07/16/99	6010	0.01	<0.01	<0.01	<0.01
Lead	07/16/99	6010	0.05	<0.05	<0.05	<0.05
Mercury	07/15/99	7471	0.001	<0.001	<0.001	<0.001
Molybdenum	07/16/99	6010	0.05	<0.05	<0.05	<0.05
Nickel	07/16/99	6010	0.01	<0.01	<0.01	<0.01
Selenium	07/16/99	6010	0.1	<0.1	<0.1	<0.1
Silver	07/16/99	6010	0.01	<0.01	<0.01	<0.01
Thallium	07/16/99	6010	0.1	<0.1	<0.1	<0.1
Vanadium	07/16/99	6010	0.01	<0.01	<0.01	<0.01
Zinc	07/16/99	6010	0.01	<0.01	0.013	0.013

Kennedy Jenks Consultants
ATTN: Mr. Rus Purcell
2151 Michelson Dr. Suite 100
Irvine, CA 92612

Client Project ID: Boeing C-6
Client Project #: 994001.00

SAMPLE DESCRIPTION (Water)

Laboratory Reference #: KJC 11010

Sampled:	07/14/99	07/14/99
Received:	07/14/99	07/14/99
Reported:	07/20/99	07/20/99
Lab Sample I.D.	99070208	99070209
Client Sample I.D.	WCC11S -GW-2	WCC10S -GW-2

CCR METALS

ANALYTE	***DATE TESTED***	***EPA METHOD***	***DETECTION LIMIT mg/l***	***SAMPLE RESULTS mg/l***	***mg/l***
Antimony	07/16/99	6010	0.1	<0.1	<0.1
Arsenic	07/16/99	6010	0.1	<0.1	<0.1
Barium	07/16/99	6010	0.01	0.029	0.18
Beryllium	07/16/99	6010	0.01	<0.01	<0.01
Cadmium	07/16/99	6010	0.01	<0.01	<0.01
Chromium (VI)	07/14/99	7196	0.01	<0.01	<0.01
Chromium (Total)	07/16/99	6010	0.01	0.011	0.012
Cobalt	07/16/99	6010	0.01	<0.01	<0.01
Copper	07/16/99	6010	0.01	<0.01	<0.01
Lead	07/16/99	6010	0.05	<0.05	<0.05
Mercury	07/15/99	7471	0.001	<0.001	<0.001
Molybdenum	07/16/99	6010	0.05	<0.05	<0.05
Nickel	07/16/99	6010	0.01	<0.01	<0.01
Selenium	07/16/99	6010	0.1	<0.1	<0.1
Silver	07/16/99	6010	0.01	<0.01	<0.01
Thallium	07/16/99	6010	0.1	<0.1	<0.1
Vanadium	07/16/99	6010	0.01	<0.01	<0.01
Zinc	07/16/99	6010	0.01	0.013	0.012

QC DATA REPORT

Analysis : Volatile Organics by GC/MS (EPA 8260)

Date of Analysis : 07/15/99
Laboratory Sample No : 99070223
Laboratory Reference No : KJC 11010

Analyte	R1 (ppb)	SP (ppb)	MS (ppb)	MSD (ppb)	PR1 %	PR2 %	RPD %
Benzene	0.0	20	19	18	95	90	5
1,1-Dichloroethene	0.0	20	20	19	100	95	5
Trichloroethene	32	20	49	51	85	95	4
Toluene	0.0	20	17	17	85	85	0
Chlorobenzene	0.0	20	19	19	95	95	0

Definition of Terms :

R1	Results Of First Analysis
SP	Spike Concentration Added to Sample
MS	Matrix Spike Results
MSD	Matrix Spike Duplicate Results
PR1	Percent Recovery Of MS: {(MS-R1) / SP} x100
PR2	Percent Recovery Of MSD: {(MSD-R1) / SP} x 100
RPD	Relative Percent Difference: {(MS-MSD) / (MS+MSD)} x 100 x 2

INT m.n.

Orange Coast Analytical, Inc.

QC DATA REPORT

Analysis : Diesel (EPA 8015m)

Date of Analysis : 07/19/99
Laboratory Sample No : OCA 100
Laboratory Reference No : KJC 11010

Analyte	R1 (ppm)	SP (ppm)	MS (ppm)	MSD (ppm)	PR1 %	PR2 %	RPD %
Diesel	0.0	5.0	3.9	4.6	78	92	16

Definition of Terms :

R1	Results Of First Analysis
SP	Spike Concentration Added to Sample
MS	Matrix Spike Results
MSD	Matrix Spike Duplicate Results
PR1	Percent Recovery Of MS: {(MS-R1) / SP} x100
PR2	Percent Recovery Of MS: {(MSD-R1) / SP} x 100
RPD	Relative Percent Difference: {(MS-MSD) / (MS+MSD)} x 100 x 2

INT m.n.

Orange Coast Analytical, Inc.

QC DATA REPORT

Analysis : Volatile Fuel Hydrocarbons

Date of Analysis : 07/16/99
Laboratory Sample No : 99070223
Laboratory Reference No : KJC 11010

Analyte	R1 (ppb)	SP (ppb)	MS (ppb)	MSD (ppb)	PR1 %	PR2 %	RPD %
Hydrocarbons	0.0	250	250	269	100	108	7

Definition of Terms :

R1	Results Of First Analysis
SP	Spike Concentration Added to Sample
MS	Matrix Spike Results
MSD	Matrix Spike Duplicate Results
PR1	Percent Recovery Of MS: {(MS-R1) / SP} x100
PR2	Percent Recovery Of MSD: {(MSD-R1) / SP} x 100
RPD	Relative Percent Difference: {(MS-MSD) / (MS+MSD)} x 100 x 2

INT M.M.

Orange Coast Analytical, Inc.

QC DATA REPORT

Analysis : Semi-Volatile Organics by GC/MS (EPA 8270)

Date of Analysis : 07/15/99
Laboratory Sample No : OCA 100
Laboratory Reference No : KJC 11010

Analyte	R1 (ng)	SP (ng)	MS (ng)	MSD (ng)	PR1 %	PR2 %	RPD %
1,4-Dichlorobenzene	0.0	50	34	34	68	68	0
n-Nitroso-di-n-propylamine	0.0	50	42	44	84	88	5
1,2,4-Trichlorobenzene	0.0	50	36	35	72	70	3
Acenaphthene	0.0	50	40	44	80	88	10
Pyrene	0.0	50	46	43	92	86	7
Pentachlorophenol	0.0	100	92	88	92	88	4
4-Chloro-3-Methylphenol	0.0	100	78	81	78	81	4
2-Chlorophenol	0.0	100	76	75	76	75	1
Phenol	0.0	100	34	36	34	36	6

Definition of Terms :

R1	Results Of First Analysis
SP	Spike Concentration Added to Sample
MS	Matrix Spike Results
MSD	Matrix Spike Duplicate Results
PR1	Percent Recovery Of MS: {(MS-R1) / SP} x100
PR2	Percent Recovery Of MSD: {(MSD-R1) / SP} x 100
RPD	Relative Percent Difference: {(MS-MSD) / (MS+MSD)} x 100 x 2

INT m.n.

Orange Coast Analytical, Inc.

QC DATA REPORT

Analysis : Organochlorine Pesticides (EPA 8081)

Date of Analysis :0 7/15/99
Laboratory Sample No : OCA 100
Laboratory Reference No : KJC 11010

Analyte	R1 (ppb)	SP (ppb)	MS (ppb)	MSD (ppb)	PR1 %	PR2 %	RPD %
4,4'-DDT	0.0	1.0	1.1	1.2	110	120	9

Definition of Terms :

R1	Results Of First Analysis
SP	Spike Concentration Added to Sample
MS	Matrix Spike Results
MSD	Matrix Spike Duplicate Results
PR1	Percent Recovery Of MS: {(MS-R1) / SP} x100
PR2	Percent Recovery Of MSD: {(MSD-R1) / SP} x 100
RPD	Relative Percent Difference: {(MS-MSD) / (MS+MSD)} x 100 x 2

INT

Orange Coast Analytical, Inc.

QC DATA REPORT

Analysis : Metals

Laboratory Reference No : KJC 11010

Analyte	Date Tested	QC Sample	R1 (ppm)	SP (ppm)	MS (ppm)	MSD (ppm)	PR1 %	PR2 %	RPD %
Antimony	07/16/99	99070241	0.00	1.00	1.08	1.11	108	111	3
Arsenic	07/16/99	99070241	0.00	1.00	1.11	1.16	111	116	4
Barium	07/16/99	99070241	0.24	0.100	0.334	0.340	94	100	2
Beryllium	07/16/99	99070241	0.00	0.100	0.106	0.109	106	109	3
Cadmium	07/16/99	99070241	0.00	0.100	0.096	0.098	96	98	2
Chromium (Total)	07/16/99	99070241	0.01	0.100	0.110	0.113	98	101	3
Chromium (VI)	07/14/99	OCA100	0.00	0.50	0.50	0.50	100	100	0
Cobalt	07/16/99	99070241	0.00	0.100	0.098	0.100	98	100	2
Copper	07/16/99	99070241	0.00	0.100	0.109	0.112	109	112	3
Lead	07/16/99	99070241	0.00	1.00	0.94	0.96	94	96	2
Mercury	07/15/99	OCA100	0.000	0.010	0.010	0.0093	100	93	7
Molybdenum	07/16/99	99070241	0.00	1.00	1.07	1.11	107	111	4
Nickel	07/16/99	99070241	0.00	0.500	0.497	0.509	99	102	2
Selenium	07/16/99	99070241	0.00	1.00	1.19	1.19	119	119	0
Silver	07/16/99	99070241	0.00	0.500	0.500	0.509	100	102	2
Thallium	07/16/99	99070241	0.00	1.00	1.10	1.20	110	120	9
Vanadium	07/16/99	99070241	0.00	0.500	0.522	0.535	104	107	2
Zinc	07/16/99	99070241	0.017	0.100	0.108	0.110	91	93	2

Definition of Terms :

R1	Results Of First Analysis
SP	Spike Concentration Added to Sample
MS	Matrix Spike Results
MSD	Matrix Spike Duplicate Results
PR1	Percent Recovery Of MS: {(MS-R1) / SP} x100
PR2	Percent Recovery Of MSD: {(MSD-R1) / SP} x 100
RPD	Relative Percent Difference: {(MS-MSD) / (MS+MSD)} x 100 x 2

INT m.n.

Orange Coast Analytical, Inc.

KENNEDY/JENKS CONSULTANTS

SAMPLE CHAIN-OF-CUSTODY ANALYSIS REQUEST

200 New Stine Rd., #115, Bakersfield, CA 93309
630 South 336th St., Federal Way, WA 98003
12310 Red Hill Ave., #220, Irvine, CA 92714
2191 East Bayshore Rd., #700, Palo Alto, CA 94303
6190 Neil Road, #300, Reno, NV 89502
3336 Bradshaw Rd., #140, Sacramento, CA 95827
303 Second St., San Francisco, CA 94107
1000 Hill Rd., #200, Ventura, CA 93003

POSSIBLE HAZARDS:

Date 7-14-97

Source of Samples Boeing C-6

Sampler Name Shane Scrimshire

Phone 661-835-9785

Project No. 974001.00

Report To Rus Purcell

Company Kennedy / Jenks

Address 2151 Michelson Dr. #100
Irvine CA. 92612

Phone 949-261-1577

Lab Destination Orange Const

Address

Phone

Carrier/Way Bill No.

(1) Lab ID No.	(1) Client ID No.	COLLECTION Date	COLLECTION Time	(2) Type	Depth	(3) Comp.	(4) Pres.	Turn-around	(5) ANALYSES REQUESTED: 8260 - VOCs	8015 - diesel + gas	8270 - SVOCs	8080 - Pest.	1-22 metals - cam/cxm/zn/ni				Comment/Conditions (Container type, container number, etc.)
	WCC7S-GW-2	7/14/97	0840	W	—	—	HCL + HNO3	Norm.	X	X	X	X	X				
	WCC4S-GW-2	"	0945	"	—	—	"	"	X	X	X	X	X				
	WCC11S-GW-2	"	1120	"	—	—	"	"	X	X	X	X	X				
	WCC10S-GW-2	"	1255	"	—	—	"	"	X	X	X	X	X				
	Trip Blank	"	—	"	—	—	"	"	X								

(1) Write only one sample number in each space.
(2) Specify type of sample(s): Water (W), Solid (S), or indicate type.
(3) Mark each sample which should be composited in Laboratory as follows: Place an "A" in box for each sample that should be composited into one sample; use sequential letter for additional groups.
(4) Preservation of sample.
(5) Write each analyses requested across top. Place an "X" in appropriate column to indicate type of analysis needed for each sample.

SAMPLE RELINQUISHED BY:

Print Name	Signature	Company	Date	Time
Shane Scrimshire	[signature]	K/J	7/14/97	1330

SAMPLE RECEIVED BY:

Print Name	Signature	Company	Date	Time
Isaac Navarro	[signature]	OCA	7/14/97	13:3

\MISC\CUSTODY2.FRM

BOE-C6-0045812

ORANGE COAST ANALYTICAL, INC.
3002 Dow, Suite 532, Tustin, CA 92780 (714) 832-0064 Fax (714) 832-0067
4620 E. Elwood, Suite 4, Phoenix, AZ 85040 (602) 736-0960 Fax (602) 736-0970

LABORATORY REPORT FORM

Laboratory Name: ORANGE COAST ANALYTICAL, INC.

Address: 3002 Dow Suite 532 Tustin, CA 92780

Telephone: (714) 832-0064

Laboratory Certification
(ELAP) No.: 1416 Expiration Date: 2001

Laboratory Director's Name (Print) : Mark Noorani

Client: Kennedy Jenks Consultants

Project No.: Boeing C-6

Project Name: 994001.00

Laboratory Reference: KJC 11013

Analytical Method: 8260, Metals, 8080 Pesticides, 8270, 8015m gas, 8015m diesel

Date Sampled: 07/14/99
Date Received: 07/15/99
Date Reported: 07/21/99

Sample Matrix: Water

Chain of Custody Received: Yes

Laboratory Director's Signature: Mark Noorani

Kennedy Jenks Consultants
ATTN: Mr. Rus Purcell
2151 Michelson Dr. Suite 100
Irvine, CA 92612

Client Project ID: Boeing C-6
Client Project #: 994001.00

SAMPLE DESCRIPTION (Water)

Laboratory Reference #: KJC 11013

Sampled:	---	07/14/99	07/14/99
Received:	---	07/15/99	07/15/99
Analyzed:	07/15/99	07/15/99	07/15/99
Reported:	07/21/99	07/21/99	07/21/99

VOLATILE ORGANICS BY GC/MS (EPA 8260)

ANALYTE	***CAS NUMBER***	***DETECTION LIMIT***		***SAMPLE RESULTS***	
			Lab Sample I.D.	MB	99070223	99070224
			Client Sample I.D.	---	TMW17 -GW-2	TMW9 -GW-2
		µg/l		***µg/l***	***µg/l***	***µg/l***
Benzene	71-43-2	0.5		<0.5	<0.5	<5.0
Bromodichloromethane	75-27-4	1.0		<1.0	<1.0	<10
Bromoform	75-25-2	0.5		<0.5	<0.5	<5.0
Bromomethane	74-83-9	1.0		<1.0	<1.0	<10
Carbon Disulfide	75-15-0	0.5		<0.5	<0.5	<5.0
Carbon tetrachloride	56-23-5	0.5		<0.5	<0.5	<5.0
Chlorobenzene	108-90-7	0.5		<0.5	<0.5	<5.0
Chlorodibromomethane	124-48-1	0.5		<0.5	<0.5	<5.0
Chloroethane	75-00-3	0.5		<0.5	<0.5	<5.0
2-Chloroethyl vinyl ether	110-75-8	0.5		<0.5	<0.5	<5.0
Chloroform	67-66-3	0.5		<0.5	1.6	<5.0
Chloromethane	74-87-3	0.5		<0.5	<0.5	<5.0
1,1-Dichloroethane	75-34-3	0.5		<0.5	<0.5	<5.0
1,2-Dichloroethane	107-06-2	0.5		<0.5	<0.5	<5.0
1,1-Dichloroethene	75-35-4	0.5		<0.5	<0.5	290
trans-1,2-Dichloroethene	156-60-5	0.5		<0.5	<0.5	<5.0
1,2-Dichloropropane	78-87-5	0.5		<0.5	<0.5	<5.0
cis-1,3-Dichloropropene	10061-01-5	0.5		<0.5	<0.5	<5.0
trans-1,3-Dichloropropene	10061-02-6	0.5		<0.5	<0.5	<5.0
Ethylbenzene	100-41-4	0.5		<0.5	<0.5	<5.0
Methylene chloride	75-09-2	2.5		<2.5	<2.5	<25
Styrene	100-42-5	0.5		<0.5	<0.5	<5.0
1,1,2,2-Tetrachloroethane	79-34-5	0.5		<0.5	<0.5	<5.0
Tetrachloroethene	127-18-4	0.5		<0.5	<0.5	<5.0
Toluene	108-88-3	0.5		<0.5	<0.5	<5.0
1,1,1-Trichloroethane	71-55-6	0.5		<0.5	<0.5	<5.0
1,1,2-Trichloroethane	79-00-5	0.5		<0.5	<0.5	<5.0
Trichloroethene	79-01-6	0.5		<0.5	32	1200
Trichlorofluoromethane	75-69-4	0.5		<0.5	<0.5	<5.0
Vinyl acetate	108-05-4	1.0		<1.0	<1.0	<10
Vinyl chloride	75-01-4	0.5		<0.5	<0.5	<5.0
Total Xylenes	1330-20-7	1.0		<1.0	<1.0	<10
Dichlorodifluoromethane	75-71-8	0.5		<0.5	<0.5	<5.0
cis-1,2-Dichloroethene	156-59-2	0.5		<0.5	<0.5	<5.0
2,2-Dichloropropane	594-20-7	0.5		<0.5	<0.5	<5.0

INT-

Orange Coast Analytical, Inc

VOLATILE ORGANICS BY GC/MS (EPA 8260) (continued)

Laboratory Reference #: KJC 11013

Client Project ID: Boeing C-6
Client Project #: 994001

Sampled:	---	07/14/99	07/14/99
Received:	---	07/15/99	07/15/99
Analyzed:	07/15/99	07/15/99	07/15/99
Reported:	07/21/99	07/21/99	07/21/99

		SAMPLE DESCRIPTION (Water)	
Lab Sample I.D.	MB	99070223	99070224
Client Sample I.D.	---	TMW17 -GW-2	TMW9 -GW-2

ANALYTE (CONT)	***CAS NUMBER***	***DETECTION LIMIT***		***SAMPLE RESULTS***	
		ug/l	***ug/l***	***ug/l***	***ug/l***
Bromochloromethane	74-97-5	0.5	<0.5	<0.5	<5.0
1,1-Dichloropropene	563-58-6	0.5	<0.5	<0.5	<5.0
Dibromomethane	74-95-3	0.5	<0.5	<0.5	<5.0
1,2-Dibromoethane	106-93-4	0.5	<0.5	<0.5	<5.0
1,3-Dichloropropane	142-28-9	0.5	<0.5	<0.5	<5.0
Isopropylbenzene	98-82-8	0.5	<0.5	<0.5	<5.0
1,1,2,2-Tetrachloroethane	79-34-5	0.5	<0.5	<0.5	<5.0
1,2,3-Trichloropropane	96-18-4	0.5	<0.5	<0.5	<5.0
Bromobenzene	108-86-1	0.5	<0.5	<0.5	<5.0
n-Propylbenzene	103-65-1	0.5	<0.5	<0.5	<5.0
2-Chlorotoluene	95-49-8	0.5	<0.5	<0.5	<5.0
1,3,5-Trimethylbenzene	108-67-8	0.5	<0.5	<0.5	<5.0
4-Chlorotoluene	106-43-4	0.5	<0.5	<0.5	<5.0
tert-Butylbenzene	98-06-6	0.5	<0.5	<0.5	<5.0
1,2,4-Trimethylbenzene	95-63-6	0.5	<0.5	<0.5	<5.0
sec-Butylbenzene	135-98-8	0.5	<0.5	<0.5	<5.0
4-Isopropyltoluene	99-87-6	0.5	<0.5	<0.5	<5.0
1,3-Dichlorobenzene	541-73-1	0.5	<0.5	<0.5	<5.0
1,4-Dichlorobenzene	106-46-7	0.5	<0.5	<0.5	<5.0
n-Butylbenzene	104-51-8	0.5	<0.5	<0.5	<5.0
1,2-Dichlorobenzene	95-50-1	0.5	<0.5	<0.5	<5.0
1-2-Dibromo-3-CPA	96-12-8	1.0	<1.0	<1.0	<10
1,2,4-Trichlorobenzene	120-82-1	0.5	<0.5	<0.5	<5.0
Hexachlorobutadiene	87-68-3	0.5	<0.5	<0.5	<5.0
Naphthalene	91-20-3	0.5	<0.5	<0.5	<5.0
1,2,3-Trichlorobenzene	87-61-6	0.5	<0.5	<0.5	<5.0

SURROGATE RECOVERY	%RC	%RC	%RC
Dibromofluoromethane	91	91	94
Toluene-d8	94	96	94
4-Bromofluorobenzene	95	97	97

Kennedy Jenks Consultants
ATTN: Mr. Rus Purcell
2151 Michelson Dr. Suite 100
Irvine, CA 92612

Client Project ID: Boeing C-6
Client Project #: 994001.00

SAMPLE DESCRIPTION (Water)

Laboratory Reference #: KJC 11013

Sampled:	07/14/99	07/14/99
Received:	07/15/99	07/15/99
Analyzed:	07/15/99	07/15/99
Reported:	07/21/99	07/21/99
Lab Sample I.D.	99070225	99070226
Client Sample I.D.	TMW5 -GW-2	Trip Blank

VOLATILE ORGANICS BY GC/MS (EPA 8260)

ANALYTE	***CAS NUMBER***	***DETECTION LIMIT µg/l***	***SAMPLE RESULTS µg/l***	***µg/l***
Benzene	71-43-2	0.5	<50	<0.5
Bromodichloromethane	75-27-4	1.0	<100	<1.0
Bromoform	75-25-2	0.5	<50	<0.5
Bromomethane	74-83-9	1.0	<100	<1.0
Carbon Disulfide	75-15-0	0.5	<50	<0.5
Carbon tetrachloride	56-23-5	0.5	<50	<0.5
Chlorobenzene	108-90-7	0.5	<50	<0.5
Chlorodibromomethane	124-48-1	0.5	<50	<0.5
Chloroethane	75-00-3	0.5	<50	<0.5
2-Chloroethyl vinyl ether	110-75-8	0.5	<50	<0.5
Chloroform	67-66-3	0.5	<50	<0.5
Chloromethane	74-87-3	0.5	<50	<0.5
1,1-Dichloroethane	75-34-3	0.5	<50	<0.5
1,2-Dichloroethane	107-06-2	0.5	<50	<0.5
1,1-Dichloroethene	75-35-4	0.5	710	<0.5
trans-1,2-Dichloroethene	156-60-5	0.5	<50	<0.5
1,2-Dichloropropane	78-87-5	0.5	<50	<0.5
cis-1,3-Dichloropropene	10061-01-5	0.5	<50	<0.5
trans-1,3-Dichloropropene	10061-02-6	0.5	<50	<0.5
Ethylbenzene	100-41-4	0.5	<50	<0.5
Methylene chloride	75-09-2	2.5	<250	<2.5
Styrene	100-42-5	0.5	<50	<0.5
1,1,2,2-Tetrachloroethane	79-34-5	0.5	<50	<0.5
Tetrachloroethene	127-18-4	0.5	<50	<0.5
Toluene	108-88-3	0.5	<50	<0.5
1,1,1-Trichloroethane	71-55-6	0.5	<50	<0.5
1,1,2-Trichloroethane	79-00-5	0.5	<50	<0.5
Trichloroethene	79-01-6	0.5	4300	<0.5
Trichlorofluoromethane	75-69-4	0.5	<50	<0.5
Vinyl acetate	108-05-4	1.0	<100	<1.0
Vinyl chloride	75-01-4	0.5	<50	<0.5
Total Xylenes	1330-20-7	1.0	<100	<1.0
Dichlorodifluoromethane	75-71-8	0.5	<50	<0.5
cis-1,2-Dichloroethene	156-59-2	0.5	<50	<0.5
2,2-Dichloropropane	594-20-7	0.5	<50	<0.5

INT-m.n.

Orange Coast Analytical, Inc

VOLATILE ORGANICS BY GC/MS (EPA 8260) (continued)

Laboratory Reference #: KJC 11013

Client Project ID: Boeing C-6
Client Project #: 994001

Sampled:	07/14/99	07/14/99
Received:	07/15/99	07/15/99
Analyzed:	07/15/99	07/15/99
Reported:	07/21/99	07/21/99
	SAMPLE DESCRIPTION (Water)	
Lab Sample I.D.	99070225	99070226
Client Sample I.D.	TMW5 -GW-2	Trip Blank

ANALYTE (CONT)	***CAS NUMBER***	***DETECTION LIMIT ug/l***	***SAMPLE RESULTS ug/l***	***ug/l***
Bromochloromethane	74-97-5	0.5	<50	<0.5
1,1-Dichloropropene	563-58-6	0.5	<50	<0.5
Dibromomethane	74-95-3	0.5	<50	<0.5
1,2-Dibromoethane	106-93-4	0.5	<50	<0.5
1,3-Dichloropropane	142-28-9	0.5	<50	<0.5
Isopropylbenzene	98-82-8	0.5	<50	<0.5
1,1,2,2-Tetrachloroethane	79-34-5	0.5	<50	<0.5
1,2,3-Trichloropropane	96-18-4	0.5	<50	<0.5
Bromobenzene	108-86-1	0.5	<50	<0.5
n-Propylbenzene	103-65-1	0.5	<50	<0.5
2-Chlorotoluene	95-49-8	0.5	<50	<0.5
1,3,5-Trimethylbenzene	108-67-8	0.5	<50	<0.5
4-Chlorotoluene	106-43-4	0.5	<50	<0.5
tert-Butylbenzene	98-06-6	0.5	<50	<0.5
1,2,4-Trimethylbenzene	95-63-6	0.5	<50	<0.5
sec-Butylbenzene	135-98-8	0.5	<50	<0.5
4-Isopropyltoluene	99-87-6	0.5	<50	<0.5
1,3-Dichlorobenzene	541-73-1	0.5	<50	<0.5
1,4-Dichlorobenzene	106-46-7	0.5	<50	<0.5
n-Butylbenzene	104-51-8	0.5	<50	<0.5
1,2-Dichlorobenzene	95-50-1	0.5	<50	<0.5
1-2-Dibromo-3-CPA	96-12-8	1.0	<100	<1.0
1,2,4-Trichlorobenzene	120-82-1	0.5	<50	<0.5
Hexachlorobutadiene	87-68-3	0.5	<50	<0.5
Naphthalene	91-20-3	0.5	<50	<0.5
1,2,3-Trichlorobenzene	87-61-6	0.5	<50	<0.5

SURROGATE RECOVERY	%RC	%RC
Dibromofluoromethane	92	87
Toluene-d8	98	97
4-Bromofluorobenzene	97	95

INT-

Kennedy Jenks Consultants
ATTN: Mr. Rus Purcell
2151 Michelson Dr. Suite 100
Irvine, CA 92612

Client Project ID: Boeing C-6
Client Project #: 994001.00

SAMPLE DESCRIPTION (Water)

Laboratory Reference #: KJC 11013

Sampled:	---	07/14/99	07/14/99	07/14/99
Received:	---	07/15/99	07/15/99	07/15/99
Analyzed:	07/16/99	07/16/99	07/16/99	07/16/99
Reported:	07/21/99	07/21/99	07/21/99	07/21/99
Lab Sample I.D.	MB	99070223	99070224	99070225
Client Sample I.D.	---	TMW17 -GW-2	TMW9 -GW-2	TMW5 -GW-2

SEMI VOLATILE ORGANICS BY GC/MS (EPA 8270)

ANALYTE	***CAS NUMBER***	***DETECTION LIMIT***	***SAMPLE RESULTS***			
		µg/l	***µg/l***	***µg/l***	***µg/l***	***µg/l***
Acenaphthene	83-32-9	5.0	<5.0	<5.0	<5.0	<5.0
Acenaphthylene	208-96-8	5.0	<5.0	<5.0	<5.0	<5.0
Aniline	62-53-3	5.0	<5.0	<5.0	<5.0	<5.0
Anthracene	120-12-7	5.0	<5.0	<5.0	<5.0	<5.0
Benzoic acid	65-85-0	50	<50	<50	<50	<50
Benzo (a) anthracene	56-55-3	5.0	<5.0	<5.0	<5.0	<5.0
Benzo (b) fluoranthene	205-99-2	25	<25	<25	<25	<25
Benzo (k) fluoranthene	207-08-9	25	<25	<25	<25	<25
Benzo (g,h,i) perylene	191-24-2	25	<25	<25	<25	<25
Benzo (a) pyrene	50-32-8	25	<25	<25	<25	<25
Benzyl alcohol	100-51-6	5.0	<5.0	<5.0	<5.0	<5.0
bis-(2-chloroethoxy) methane	111-91-1	5.0	<5.0	<5.0	<5.0	<5.0
bis-(2-chloroethyl) ether	111-44-4	5.0	<5.0	<5.0	<5.0	<5.0
bis-(2-chloroisopropyl) ether	108-60-1	5.0	<5.0	<5.0	<5.0	<5.0
bis-(2-ethylhexyl) phthalate	117-81-7	3.0	<3.0	<3.0	<3.0	<3.0
4-Bromophenyl phenyl ether	101-55-3	5.0	<5.0	<5.0	<5.0	<5.0
Butyl benzyl phthalate	85-68-7	5.0	<5.0	<5.0	<5.0	<5.0
4-Chloroaniline	106-47-8	5.0	<5.0	<5.0	<5.0	<5.0
2-Chloronaphthalene	91-58-7	5.0	<5.0	<5.0	<5.0	<5.0
4-Chloro-3-methylphenol	59-50-7	5.0	<5.0	<5.0	<5.0	<5.0
2-Chlorophenol	95-57-8	5.0	<5.0	<5.0	<5.0	<5.0
4-Chlorophenyl phenyl ether	7005-72-3	5.0	<5.0	<5.0	<5.0	<5.0
Chrysene	218-01-9	5.0	<5.0	<5.0	<5.0	<5.0
Dibenz (a,h) anthracene	53-70-3	25	<25	<25	<25	<25
Dibenzofuran	132-64-9	5.0	<5.0	<5.0	<5.0	<5.0
Di-n-butyl phthalate	84-74-2	5.0	<5.0	<5.0	<5.0	<5.0
1,3-Dichlorobenzene	541-73-1	5.0	<5.0	<5.0	<5.0	<5.0
1,4-Dichlorobenzene	106-46-7	5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichlorobenzene	95-50-1	5.0	<5.0	<5.0	<5.0	<5.0
3,3-Dichlorobenzidine	91-94-1	5.0	<5.0	<5.0	<5.0	<5.0
2,4-Dichlorophenol	120-83-2	5.0	<5.0	<5.0	<5.0	<5.0
Diethyl phthalate	84-66-2	5.0	<5.0	<5.0	<5.0	<5.0
2,4-Dimethylphenol	105-67-9	5.0	<5.0	<5.0	<5.0	<5.0
Dimethyl phthalate	131-11-3	5.0	<5.0	<5.0	<5.0	<5.0
4,6-Dinitro-2-methylphenol	534-52-1	50	<50	<50	<50	<50

SEMI-VOLATILE ORGANICS BY GC/MS (EPA 8270) (continued)

Laboratory Reference #: KJC 11013

Client Project ID: Boeing C-6
Client Project #: 994001

Sampled:	---	07/14/99	07/14/99	07/14/99
Received:	---	07/15/99	07/15/99	07/15/99
Analyzed:	07/16/99	07/16/99	07/16/99	07/16/99
Reported:	07/21/99	07/21/99	07/21/99	07/21/99
	SAMPLE DESCRIPTION (Water)			
Lab Sample I.D.	MB	99070223	99070224	99070225
Client Sample I.D.	---	TMW17 -GW-2	TMW9 -GW-2	TMW5 -GW-2

ANALYTE (CONT)	***CAS NUMBER***	***DETECTION LIMIT***	***SAMPLE RESULTS***			
		ug/l	***ug/l***	***ug/l***	***ug/l***	***ug/l***
2,4-Dinitrophenol	51-28-5	50	<50	<50	<50	<50
2,4-Dinitrotoluene	121-14-2	5.0	<5.0	<5.0	<5.0	<5.0
2,6-Dinitrotoluene	606-20-2	5.0	<5.0	<5.0	<5.0	<5.0
Di-n-octyl phthalate	117-84-0	25	<25	<25	<25	<25
Fluoranthene	206-44-0	5.0	<5.0	<5.0	<5.0	<5.0
Fluorene	86-73-7	5.0	<5.0	<5.0	<5.0	<5.0
Hexachlorobenzene	118-74-1	5.0	<5.0	<5.0	<5.0	<5.0
Hexachlorobutadiene	87-68-3	5.0	<5.0	<5.0	<5.0	<5.0
Hexachlorocyclopentadiene	77-47-4	5.0	<5.0	<5.0	<5.0	<5.0
Hexachloroethane	67-72-1	5.0	<5.0	<5.0	<5.0	<5.0
Indeno (1,2,3-cd) pyrene	193-39-5	25	<25	<25	<25	<25
Isophorone	78-59-1	5.0	<5.0	<5.0	<5.0	<5.0
2-Methylnaphthalene	91-57-6	5.0	<5.0	<5.0	<5.0	<5.0
2-Methylphenol	95-48-7	5.0	<5.0	<5.0	<5.0	<5.0
4-Methylphenol	106-44-5	5.0	<5.0	<5.0	<5.0	<5.0
Naphthalene	91-20-3	5.0	<5.0	<5.0	<5.0	<5.0
2-Nitroaniline	88-74-4	50	<50	<50	<50	<50
3-Nitroaniline	99-09-2	50	<50	<50	<50	<50
4-Nitroaniline	100-01-6	50	<50	<50	<50	<50
Nitrobenzene	98-95-3	5.0	<5.0	<5.0	<5.0	<5.0
2-Nitrophenol	88-75-5	5.0	<5.0	<5.0	<5.0	<5.0
4-Nitrophenol	100-02-7	50	<50	<50	<50	<50
n-Nitrosodiphenylamine	86-30-6	5.0	<5.0	<5.0	<5.0	<5.0
n-Nitrosodipropylamine	621-64-7	5.0	<5.0	<5.0	<5.0	<5.0
n-Nitrosodimethylamine	62-75-9	5.0	<5.0	<5.0	<5.0	<5.0
Pentachlorophenol	87-86-5	50	<50	<50	<50	<50
Phenanthrene	85-01-8	5.0	<5.0	<5.0	<5.0	<5.0
Phenol	108-95-2	5.0	<5.0	<5.0	<5.0	<5.0
Pyrene	129-00-0	5.0	<5.0	<5.0	<5.0	<5.0
1,2,4-Trichlorobenzene	120-82-1	5.0	<5.0	<5.0	<5.0	<5.0
2,4,5-trichlorophenol	95-95-4	5.0	<5.0	<5.0	<5.0	<5.0
2,4,6-Trichlorophenol	88-06-2	5.0	<5.0	<5.0	<5.0	<5.0

Kennedy Jenks Consultants
ATTN: Mr. Rus Purcell
2151 Michelson Dr. Suite 100
Irvine, CA 92612

Client Project ID: Boeing C-6
Client Project #: 994001.00

Sampled: 07/14/99
Received: 07/15/99
Analyzed: 07/16/99
Reported: 07/21/99

Sample Description: Water,

Laboratory Reference #: KJC 11013

VOLATILE FUEL HYDROCARBONS (EPA 8015m)

LABORATORY SAMPLE NUMBER	***CLIENT SAMPLE NUMBER***	***SAMPLE RESULTS µg/l***
99070223	TMW17-GW-2	N.D.
99070224	TMW9-GW-2	230
99070225	TMW5-GW-2	310

Detection Limit:	50

Volatile Fuel Hydrocarbons are quantitated against a gasoline standard. Hydrocarbons detected by this method range from C6 to C14. Analyte reported as N.D. was not present above the stated limit of detections.

INT m.n.

Orange Coast Analytical, Inc.

Kennedy Jenks Consultants
ATTN: Mr. Rus Purcell
2151 Michelson Dr. Suite 100
Irvine, CA 92612

Client Project ID: Boeing C-6
Client Project #: 994001.00

Sample Description: Water,

Laboratory Reference #: KJC 11013

Sampled: 07/14/99
Received: 07/15/99
Analyzed: 07/19/99
Reported: 07/21/99

DIESEL (EPA 8015m)

LABORATORY SAMPLE NUMBER	***CLIENT SAMPLE NUMBER***	***SAMPLE RESULTS mg/l***
99070223	TMW17-GW-2	N.D.
99070224	TMW9-GW-2	N.D.
99070225	TMW5-GW-2	N.D.
Detection Limit:		0.5

Analyte reported as N.D. was not present above the stated limit of detection.

INT m.n.

Orange Coast Analytical, Inc.

Kennedy Jenks Consultants
ATTN: Mr. Rus Purcell
2151 Michelson Dr. Suite 100
Irvine, CA 92612

Client Project ID: Boeing C-6
Client Project #: 994001.00

SAMPLE DESCRIPTION (Water)

Laboratory Reference #: KJC 11013

Sampled:	---	07/14/99	07/14/99	07/14/99
Received:	---	07/15/99	07/15/99	07/15/99
Analyzed:	07/15/99	07/15/99	07/15/99	07/15/99
Reported:	07/21/99	07/21/99	07/21/99	07/21/99
Lab Sample I.D.	MB	99070223	99070224	99070225
Client Sample I.D.	---	TMW17 -GW-2	TMW9 -GW-2	TMW5 -GW-2

ORGANOCHLORINATED PESTICIDES (EPA 8081)

ANALYTE	***CAS NUMBER***	***DETECTION LIMIT µg/l***	***SAMPLE RESULTS***			
			µg/l	***µg/l***	***µg/l***	***µg/l***
Aldrin	309-00-2	0.1	<0.1	<0.1	<0.1	<0.1
alpha-BHC	319-84-6	0.2	<0.2	<0.2	<0.2	<0.2
beta-BHC	319-85-7	0.2	<0.2	<0.2	<0.2	<0.2
delta-BHC	319-86-8	0.2	<0.2	<0.2	<0.2	<0.2
gamma-BHC (Lindane)	58-89-9	0.2	<0.2	<0.2	<0.2	<0.2
Chlordane	57-74-9	0.2	<0.2	<0.2	<0.2	<0.2
4,4'-DDD	72-54-8	0.5	<0.5	<0.5	<0.5	<0.5
4,4'-DDE	72-55-9	0.1	<0.1	<0.1	<0.1	<0.1
4,4'-DDT	50-29-3	0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	60-57-1	0.5	<0.5	<0.5	<0.5	<0.5
Endosulfan I	959-98-8	0.5	<0.5	<0.5	<0.5	<0.5
Endosulfan II	33212-65-9	0.5	<0.5	<0.5	<0.5	<0.5
Endosulfan sulfate	1031-07-8	0.5	<0.5	<0.5	<0.5	<0.5
Endrin	72-20-8	0.02	<0.02	<0.02	<0.02	<0.02
Endrin aldehyde	7421-93-4	0.2	<0.2	<0.2	<0.2	<0.2
Heptachlor	76-44-8	0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor epoxide	1024-57-3	0.2	<0.2	<0.2	<0.2	<0.2
Methoxychlor	72-43-5	9.0	<9.0	<9.0	<9.0	<9.0
Toxaphene	8001-35-2	0.5	<0.5	<0.5	<0.5	<0.5

Kennedy Jenks Consultants
ATTN: Mr. Rus Purcell
2151 Michelson Dr. Suite 100
Irvine, CA 92612

Client Project ID: Boeing C-6
Client Project #: 994001.00

SAMPLE DESCRIPTION (Water)

Laboratory Reference #: KJC 11013

Sampled:	---	07/14/99	07/14/99	07/14/99
Received:	---	07/15/99	07/15/99	07/15/99
Reported:	07/21/99	07/21/99	07/21/99	07/21/99
Lab Sample I.D.	MB	99070223	99070224	99070225
Client Sample I.D.	---	TMW17 -GW-2	TMW9 -GW-2	TMW5 -GW-2

CCR METALS

ANALYTE	***DATE TESTED***	***EPA METHOD***	***DETECTION LIMIT***	***SAMPLE RESULTS***			
			mg/l	***mg/l***	***mg/l***	***mg/l***	***mg/l***
Antimony	07/16/99	6010	0.1	<0.1	<0.1	<0.1	<0.1
Arsenic	07/16/99	6010	0.1	<0.1	<0.1	<0.1	<0.1
Barium	07/16/99	6010	0.01	<0.01	0.028	0.11	0.055
Beryllium	07/16/99	6010	0.01	<0.01	<0.01	<0.01	<0.01
Cadmium	07/16/99	6010	0.01	<0.01	<0.01	<0.01	<0.01
Chromium (VI)	07/15/99	7196	0.01	<0.01	<0.01	0.024	<0.01
Chromium (Total)	07/16/99	6010	0.01	<0.01	<0.01	0.024	0.015
Cobalt	07/16/99	6010	0.01	<0.01	<0.01	<0.01	<0.01
Copper	07/16/99	6010	0.01	<0.01	<0.01	<0.01	<0.01
Lead	07/16/99	6010	0.05	<0.05	<0.05	<0.05	<0.05
Mercury	07/15/99	7471	0.001	<0.001	<0.001	<0.001	<0.001
Molybdenum	07/16/99	6010	0.05	<0.05	<0.05	<0.05	<0.05
Nickel	07/16/99	6010	0.01	<0.01	<0.01	<0.01	<0.01
Selenium	07/16/99	6010	0.1	<0.1	<0.1	<0.1	<0.1
Silver	07/16/99	6010	0.01	<0.01	<0.01	<0.01	<0.01
Thallium	07/16/99	6010	0.1	<0.1	<0.1	<0.1	<0.1
Vanadium	07/16/99	6010	0.01	<0.01	<0.01	<0.01	<0.01
Zinc	07/16/99	6010	0.01	<0.01	0.011	0.019	0.014

QC DATA REPORT

Analysis : Volatile Organics by GC/MS (EPA 8260)

Date of Analysis : 07/15/99
Laboratory Sample No : 99070223
Laboratory Reference No : KJC 11013

Analyte	R1 (ppb)	SP (ppb)	MS (ppb)	MSD (ppb)	PR1 %	PR2 %	RPD %
Benzene	0.0	20	19	18	95	90	5
1,1-Dichloroethene	0.0	20	20	19	100	95	5
Trichloroethene	32	20	49	51	85	95	4
Toluene	0.0	20	17	17	85	85	0
Chlorobenzene	0.0	20	19	19	95	95	0

Definition of Terms :

R1	Results Of First Analysis
SP	Spike Concentration Added to Sample
MS	Matrix Spike Results
MSD	Matrix Spike Duplicate Results
PR1	Percent Recovery Of MS: {(MS-R1) / SP} x100
PR2	Percent Recovery Of MSD: {(MSD-R1) / SP} x 100
RPD	Relative Percent Difference: {(MS-MSD) / (MS+MSD)} x 100 x 2

INT m.n.

Orange Coast Analytical, Inc.

QC DATA REPORT

Analysis : Semi-Volatile Organics by GC/MS (EPA 8270)

Date of Analysis : 07/16/99
Laboratory Sample No : OCA 100
Laboratory Reference No : KJC 11013

Analyte	R1 (ng)	SP (ng)	MS (ng)	MSD (ng)	PR1 %	PR2 %	RPD %
1,4-Dichlorobenzene	0.0	50	32	33	64	66	3
n-Nitroso-di-n-propylamine	0.0	50	39	41	78	82	5
1,2,4-Trichlorobenzene	0.0	50	34	36	68	72	6
Acenaphthene	0.0	50	38	38	76	76	0
Pyrene	0.0	50	39	40	78	80	3
Pentachlorophenol	0.0	100	81	89	81	89	9
4-Chloro-3-Methylphenol	0.0	100	66	59	66	59	11
2-Chlorophenol	0.0	100	68	69	68	69	1
Phenol	0.0	100	29	27	29	27	7

Definition of Terms :

R1	Results Of First Analysis
SP	Spike Concentration Added to Sample
MS	Matrix Spike Results
MSD	Matrix Spike Duplicate Results
PR1	Percent Recovery Of MS: {(MS-R1) / SP} x100
PR2	Percent Recovery Of MSD: {(MSD-R1) / SP} x 100
RPD	Relative Percent Difference: {(MS-MSD) / (MS+MSD)} x 100 x 2

INT m.n.

Orange Coast Analytical, Inc.

QC DATA REPORT

Analysis : Diesel (EPA 8015m)

Date of Analysis : 07/19/99
Laboratory Sample No : OCA 100
Laboratory Reference No : KJC 11013

Analyte	R1 (ppm)	SP (ppm)	MS (ppm)	MSD (ppm)	PR1 %	PR2 %	RPD %
Diesel	0.0	5.0	3.9	4.6	78	92	16

Definition of Terms :

R1	Results Of First Analysis
SP	Spike Concentration Added to Sample
MS	Matrix Spike Results
MSD	Matrix Spike Duplicate Results
PR1	Percent Recovery Of MS: {(MS-R1) / SP} x100
PR2	Percent Recovery Of MSD: {(MSD-R1) / SP} x 100
RPD	Relative Percent Difference: {(MS-MSD) / (MS+MSD)} x 100 x 2

INT m.n.

Orange Coast Analytical, Inc.

QC DATA REPORT

Analysis : Volatile Fuel Hydrocarbons

Date of Analysis : 07/16/99
Laboratory Sample No : 99070223
Laboratory Reference No : KJC 11013

Analyte	R1 (ppb)	SP (ppb)	MS (ppb)	MSD (ppb)	PR1 %	PR2 %	RPD %
Hydrocarbons	0.0	250	250	268	100	107	7

Definition of Terms :

R1	Results Of First Analysis
SP	Spike Concentration Added to Sample
MS	Matrix Spike Results
MSD	Matrix Spike Duplicate Results
PR1	Percent Recovery Of MS: {(MS-R1) / SP} x100
PR2	Percent Recovery Of MSD: {(MSD-R1) / SP} x 100
RPD	Relative Percent Difference: {(MS-MSD) / (MS+MSD)} x 100 x 2

INT m.n.

Orange Coast Analytical, Inc.

QC DATA REPORT

Analysis : Organochlorine Pesticides (EPA 8081)

Date of Analysis :07/15/99
Laboratory Sample No :OCA 100
Laboratory Reference No : KJC 11013

Analyte	R1 (ppb)	SP (ppb)	MS (ppb)	MSD (ppb)	PR1 %	PR2 %	RPD %
4,4'-DDT	0.0	1.0	1.10	1.20	110	120	9

Definition of Terms :

R1	Results Of First Analysis
SP	Spike Concentration Added to Sample
MS	Matrix Spike Results
MSD	Matrix Spike Duplicate Results
PR1	Percent Recovery Of MS: {(MS-R1) / SP} x100
PR2	Percent Recovery Of MSD: {(MSD-R1) / SP} x 100
RPD	Relative Percent Difference: {(MS-MSD) / (MS+MSD)} x 100 x 2

INT m.n.

Orange Coast Analytical, Inc.

QC DATA REPORT

Analysis : Metals

Laboratory Reference No : KJC 11013

Analyte	Date Tested	QC Sample	R1 (ppm)	SP (ppm)	MS (ppm)	MSD (ppm)	PR1 %	PR2 %	RPD %
Antimony	07/16/99	99070241	0.00	1.00	1.08	1.11	108	111	3
Arsenic	07/16/99	99070241	0.00	1.00	1.11	1.16	111	116	4
Barium	07/16/99	99070241	0.24	0.100	0.334	0.340	94	100	2
Beryllium	07/16/99	99070241	0.00	0.100	0.106	0.109	106	109	3
Cadmium	07/16/99	99070241	0.00	0.100	0.096	0.098	96	98	2
Chromium (Total)	07/16/99	99070241	0.01	0.100	0.110	0.113	98	101	3
Chromium (VI)	07/15/99	OCA100	0.00	0.50	0.50	0.50	100	100	0
Cobalt	07/16/99	99070241	0.00	0.100	0.098	0.100	98	100	2
Copper	07/16/99	99070241	0.00	0.100	0.109	0.112	109	112	3
Lead	07/16/99	99070241	0.00	1.00	0.940	0.957	94	96	2
Mercury	07/15/99	OCA100	0.000	0.010	0.010	0.0093	100	93	7
Molybdenum	07/16/99	99070241	0.00	1.00	1.07	1.11	107	111	4
Nickel	07/16/99	99070241	0.00	0.500	0.497	0.509	99	102	2
Selenium	07/16/99	99070241	0.00	1.00	1.19	1.19	119	119	0
Silver	07/16/99	99070241	0.00	0.500	0.500	0.509	100	102	2
Thallium	07/16/99	99070241	0.00	1.00	1.10	1.20	110	120	9
Vanadium	07/16/99	99070241	0.00	0.500	0.522	0.535	104	107	2
Zinc	07/16/99	99070241	0.017	0.100	0.108	0.110	91	93	2

Definition of Terms :

R1	Results Of First Analysis
SP	Spike Concentration Added to Sample
MS	Matrix Spike Results
MSD	Matrix Spike Duplicate Results
PR1	Percent Recovery Of MS: {(MS-R1) / SP} x100
PR2	Percent Recovery Of MS: {(MSD-R1) / SP} x 100
RPD	Relative Percent Difference: {(MS-MSD) / (MS+MSD)} x 100 x 2

INT m.n.

Orange Coast Analytical, Inc.

KENNEDY/JENKS CONSULTANTS

SAMPLE CHAIN-OF-CUSTODY ANALYSIS REQUEST

[ ] 200 New Stine Rd., #116, Bakersfield, CA 93309
[ ] 630 South 336th St., Federal Way, WA 98003
[ ] 17310 Red Hill Ave., #220, Irvine, CA 92714
[ ] 2191 East Bayshore Rd., #200, Palo Alto, CA 94303
[ ] 6190 Neil Road, #300, Reno, NV 89502
[ ] 3336 Bradshaw Rd., #140, Sacramento, CA 95827
[ ] 303 Second St., San Francisco, CA 94107
[ ] 1000 Hill Rd., #200, Ventura, CA 93003

POSSIBLE HAZARDS:

Date 7-14-99

Source of Samples Boeing C-6

Sampler Name Shane Scrimshire

Phone 661-835-9785

Project No. 994001.00

Report To Rus Purcell

Company Kennedy/Jenks

Address 2151 Michelson Dr. #100
Irvine CA. 92612

Phone 949-261-1577

Lab Destination Orange Coast

Address

Phone

Carrier/Way Bill No.

(1) Lab ID No.	(1) Client ID No.	COLLECTION Date	COLLECTION Time	(2) Type	Depth	(3) Comp.	(4) Pres.	Turn-around	(5) ANALYSES REQUESTED: 8260 - VOCs	8015 - diesel + gas	8270 - SVOCs	8080 - Pest.	T-22 metals 6010/7470/7196				Comment/Conditions (Container type, container number, etc.)
	TMW17-GW-2	7/14/99	1405	W	—	—	HCL + HNO3	Min.	X	X	X	X	X				
	TMW9-GW-2	"	1650	"	—	—	"	"	X	X	X	X	X				
	TMW5-GW-2	"	1750	"	—	—	"	"	X	X	X	X	X				
	Trip Blank	"	—	"	—	—	HCL	"	X								

(1) Write only one sample number in each space.
(2) Specify type of sample(s): Water (W), Solid (S), or indicate type.
(3) Mark each sample which should be composited in Laboratory as follows: Place an "A" in box for each sample that should be composited into one sample; use sequential letter for additional groups.
(4) Preservation of sample.
(5) Write each analyses requested across top. Place an "X" in appropriate column to indicate type of analysis needed for each sample.

SAMPLE RELINQUISHED BY:

Print Name	Signature	Company	Date	Time
Shane Scrimshire	[signature]	K/J	7-15-99	0710
MEHRAN HASHEMI	Mehran Hashemi	OCA	7-15-99	0710 AM.

SAMPLE RECEIVED BY:

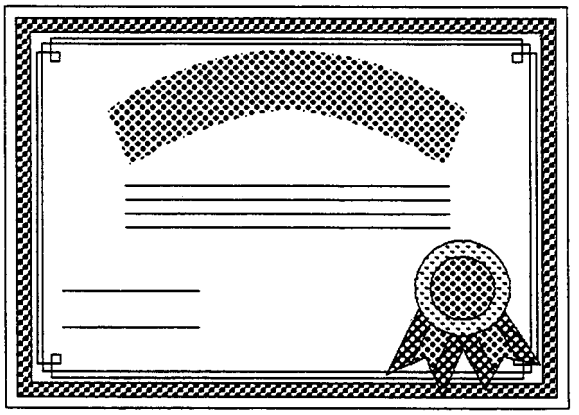
Print Name	Signature	Company	Date	Time

\MBC\CUSTODY2.FRM

000065 06

BOE-C6-0045830

ORANGE COAST ANALYTICAL, INC.
3002 Dow, Suite 532, Tustin, CA 92780 (714) 832-0064 Fax (714) 832-0067
4620 E. Elwood, Suite 4, Phoenix, AZ 85040 (602) 736-0960 Fax (602) 736-0970



ORANGE COAST ANALYTICAL THANKS YOU FOR YOUR BUSINESS

THE FOLLOWING PAGES ARE THE ANALYSIS REPORT

ON THE SAMPLES YOU REQUESTED.

IF YOU HAVE ANY QUESTIONS REGARDING THIS REPORT

PLEASE FEEL FREE TO CONTACT US.

ORANGE COAST ANALYTICAL, INC.
3002 Dow, Suite 532, Tustin, CA 92780 (714) 832-0064 Fax (714) 832-0067
4620 E. Elwood, Suite 4, Phoenix, AZ 85040 (602) 736-0960 Fax (602) 736-0970

LABORATORY REPORT FORM

Laboratory Name: ORANGE COAST ANALYTICAL, INC.

Address: 3002 Dow Suite 532 Tustin, CA 92780

Telephone: (714) 832-0064

Laboratory Certification
(ELAP) No.: 1416 Expiration Date: 2001

Laboratory Director's Name (Print) : Mark Noorani

Client: Kennedy Jenks Consultants

Project No.: Boeing C-6

Project Name: 994001.00

Laboratory Reference: KJC 11015

Analytical Method: 8260, Metals, 8080 Pesticides, 8270, 8015m gas, 8015m diesel

Date Sampled: 07/15/99
Date Received: 07/15/99
Date Reported: 07/21/99

Sample Matrix: Water

Chain of Custody Received: Yes

Laboratory Director's Signature: Mark Noorani

Kennedy Jenks Consultants
ATTN: Mr. Rus Purcell
2151 Michelson Dr. Suite 100
Irvine, CA 92612

Client Project ID: Boeing C-6
Client Project #: 994001.00

SAMPLE DESCRIPTION (Water)

Laboratory Reference #: KJC 11015

Sampled:	---	07/15/99	07/15/99
Received:	---	07/15/99	07/15/99
Analyzed:	07/16/99	07/16/99	07/16/99
Reported:	07/21/99	07/21/99	07/21/99
Lab Sample I.D.	MB	99070228	99070229
Client Sample I.D.	---	TMW6 -GW-2	TMW4 -GW-2

VOLATILE ORGANICS BY GC/MS (EPA 8260)

ANALYTE	***CAS NUMBER***	***DETECTION LIMIT µg/l***		***SAMPLE RESULTS***	
			µg/l	***µg/l***	***µg/l***
Benzene	71-43-2	0.5	<0.5	<2.5	<10
Bromodichloromethane	75-27-4	1.0	<1.0	<5.0	<20
Bromoform	75-25-2	0.5	<0.5	<2.5	<10
Bromomethane	74-83-9	1.0	<1.0	<5.0	<20
Carbon Disulfide	75-15-0	0.5	<0.5	<2.5	<10
Carbon tetrachloride	56-23-5	0.5	<0.5	<2.5	<10
Chlorobenzene	108-90-7	0.5	<0.5	<2.5	<10
Chlorodibromomethane	124-48-1	0.5	<0.5	<2.5	<10
Chloroethane	75-00-3	0.5	<0.5	<2.5	<10
2-Chloroethyl vinyl ether	110-75-8	0.5	<0.5	<2.5	<10
Chloroform	67-66-3	0.5	<0.5	560	30
Chloromethane	74-87-3	0.5	<0.5	<2.5	<10
1,1-Dichloroethane	75-34-3	0.5	<0.5	<2.5	42
1,2-Dichloroethane	107-06-2	0.5	<0.5	<2.5	23
1,1-Dichloroethene	75-35-4	0.5	<0.5	8.6	2,500
trans-1,2-Dichloroethene	156-60-5	0.5	<0.5	<2.5	64
1,2-Dichloropropane	78-87-5	0.5	<0.5	<2.5	<10
cis-1,3-Dichloropropene	10061-01-5	0.5	<0.5	<2.5	<10
trans-1,3-Dichloropropene	10061-02-6	0.5	<0.5	<2.5	<10
Ethylbenzene	100-41-4	0.5	<0.5	<2.5	<10
Methylene chloride	75-09-2	2.5	<2.5	<13	<50
Styrene	100-42-5	0.5	<0.5	<2.5	<10
1,1,2,2-Tetrachloroethane	79-34-5	0.5	<0.5	<2.5	<10
Tetrachloroethene	127-18-4	0.5	<0.5	<2.5	<10
Toluene	108-88-3	0.5	<0.5	<2.5	<10
1,1,1-Trichloroethane	71-55-6	0.5	<0.5	<2.5	10
1,1,2-Trichloroethane	79-00-5	0.5	<0.5	<2.5	<10
Trichloroethene	79-01-6	0.5	<0.5	130	2,500
Trichlorofluoromethane	75-69-4	0.5	<0.5	<2.5	<10
Vinyl acetate	108-05-4	1.0	<1.0	<5.0	<20
Vinyl chloride	75-01-4	0.5	<0.5	<2.5	<10
Total Xylenes	1330-20-7	1.0	<1.0	<5.0	<20
Dichlorodifluoromethane	75-71-8	0.5	<0.5	<2.5	<10
cis-1,2-Dichloroethene	156-59-2	0.5	<0.5	<2.5	77
2,2-Dichloropropane	594-20-7	0.5	<0.5	<2.5	<10

VOLATILE ORGANICS BY GC/MS (EPA 8260) (continued)

Laboratory Reference #: KJC 11015

Client Project ID: Boeing C-6
Client Project #: 994001

Sampled:	---	07/15/99	07/15/99
Received:	---	07/15/99	07/15/99
Analyzed:	07/16/99	07/16/99	07/16/99
Reported:	07/21/99	07/21/99	07/21/99

			SAMPLE DESCRIPTION (Water)		
		Lab Sample I.D.	MB	99070228	99070229
		Client Sample I.D.	---	TMW6 -GW-2	TMW4 -GW-2
ANALYTE (CONT)	***CAS NUMBER***	***DETECTION LIMIT***		***SAMPLE RESULTS***	
		ug/l	***ug/l***	***ug/l***	***ug/l***
Bromochloromethane	74-97-5	0.5	<0.5	<2.5	<10
1,1-Dichloropropene	563-58-6	0.5	<0.5	<2.5	<10
Dibromomethane	74-95-3	0.5	<0.5	<2.5	<10
1,2-Dibromoethane	106-93-4	0.5	<0.5	<2.5	<10
1,3-Dichloropropane	142-28-9	0.5	<0.5	<2.5	<10
Isopropylbenzene	98-82-8	0.5	<0.5	<2.5	<10
1,1,2,2-Tetrachloroethane	79-34-5	0.5	<0.5	<2.5	<10
1,2,3-Trichloropropane	96-18-4	0.5	<0.5	<2.5	<10
Bromobenzene	108-86-1	0.5	<0.5	<2.5	<10
n-Propylbenzene	103-65-1	0.5	<0.5	<2.5	<10
2-Chlorotoluene	95-49-8	0.5	<0.5	<2.5	<10
1,3,5-Trimethylbenzene	108-67-8	0.5	<0.5	<2.5	<10
4-Chlorotoluene	106-43-4	0.5	<0.5	<2.5	<10
tert-Butylbenzene	98-06-6	0.5	<0.5	<2.5	<10
1,2,4-Trimethylbenzene	95-63-6	0.5	<0.5	<2.5	<10
sec-Butylbenzene	135-98-8	0.5	<0.5	<2.5	<10
4-Isopropyltoluene	99-87-6	0.5	<0.5	<2.5	<10
1,3-Dichlorobenzene	541-73-1	0.5	<0.5	<2.5	<10
1,4-Dichlorobenzene	106-46-7	0.5	<0.5	<2.5	<10
n-Butylbenzene	104-51-8	0.5	<0.5	<2.5	<10
1,2-Dichlorobenzene	95-50-1	0.5	<0.5	<2.5	<10
1-2-Dibromo-3-CPA	96-12-8	1.0	<1.0	<5.0	<20
1,2,4-Trichlorobenzene	120-82-1	0.5	<0.5	<2.5	<10
Hexachlorobutadiene	87-68-3	0.5	<0.5	<2.5	<10
Naphthalene	91-20-3	0.5	<0.5	<2.5	<10
1,2,3-Trichlorobenzene	87-61-6	0.5	<0.5	<2.5	<10

SURROGATE RECOVERY	%RC	%RC	%RC
Dibromofluoromethane	92	94	95
Toluene-d8	95	94	94
4-Bromofluorobenzene	96	99	98

INT-

Kennedy Jenks Consultants
ATTN: Mr. Rus Purcell
2151 Michelson Dr. Suite 100
Irvine, CA 92612

Client Project ID: Boeing C-6
Client Project #: 994001.00

SAMPLE DESCRIPTION (Water)

Laboratory Reference #: KJC 11015

Sampled:	07/15/99	07/15/99	07/15/99
Received:	07/15/99	07/15/99	07/15/99
Analyzed:	07/16/99	07/15/99	07/15/99
Reported:	07/21/99	07/21/99	07/21/99
Lab Sample I.D.	99070230	99070231	99070232
Client Sample I.D.	TMW1 -GW-2	TMW7 -GW-2	Trip Blanks

VOLATILE ORGANICS BY GC/MS (EPA 8260)

ANALYTE	***CAS NUMBER***	***DETECTION LIMIT µg/l***	***SAMPLE RESULTS***		
			µg/l	***µg/l***	***µg/l***
Benzene	71-43-2	0.5	<2.5	13	<0.5
Bromodichloromethane	75-27-4	1.0	<5.0	<25	<1.0
Bromoform	75-25-2	0.5	<2.5	<13	<0.5
Bromomethane	74-83-9	1.0	<5.0	<25	<1.0
Carbon Disulfide	75-15-0	0.5	<2.5	<13	<0.5
Carbon tetrachloride	56-23-5	0.5	<2.5	<13	<0.5
Chlorobenzene	108-90-7	0.5	<2.5	<13	<0.5
Chlorodibromomethane	124-48-1	0.5	<2.5	<13	<0.5
Chloroethane	75-00-3	0.5	<2.5	<13	<0.5
2-Chloroethyl vinyl ether	110-75-8	0.5	<2.5	<13	<0.5
Chloroform	67-66-3	0.5	<2.5	13	<0.5
Chloromethane	74-87-3	0.5	<2.5	<13	<0.5
1,1-Dichloroethane	75-34-3	0.5	<2.5	36	<0.5
1,2-Dichloroethane	107-06-2	0.5	<2.5	18	<0.5
1,1-Dichloroethene	75-35-4	0.5	600	2,100	<0.5
trans-1,2-Dichloroethene	156-60-5	0.5	<2.5	57	<0.5
1,2-Dichloropropane	78-87-5	0.5	<2.5	<13	<0.5
cis-1,3-Dichloropropene	10061-01-5	0.5	<2.5	<13	<0.5
trans-1,3-Dichloropropene	10061-02-6	0.5	<2.5	<13	<0.5
Ethylbenzene	100-41-4	0.5	<2.5	<13	<0.5
Methylene chloride	75-09-2	2.5	<13	<63	<2.5
Styrene	100-42-5	0.5	<2.5	<13	<0.5
1,1,2,2-Tetrachloroethane	79-34-5	0.5	<2.5	<13	<0.5
Tetrachloroethene	127-18-4	0.5	<2.5	<13	<0.5
Toluene	108-88-3	0.5	<2.5	<13	<0.5
1,1,1-Trichloroethane	71-55-6	0.5	<2.5	<13	<0.5
1,1,2-Trichloroethane	79-00-5	0.5	<2.5	<13	<0.5
Trichloroethene	79-01-6	0.5	340	2,500	<0.5
Trichlorofluoromethane	75-69-4	0.5	14	<13	<0.5
Vinyl acetate	108-05-4	1.0	<5.0	<25	<1.0
Vinyl chloride	75-01-4	0.5	<2.5	<13	<0.5
Total Xylenes	1330-20-7	1.0	<5.0	<25	<1.0
Dichlorodifluoromethane	75-71-8	0.5	<2.5	<13	<0.5
cis-1,2-Dichloroethene	156-59-2	0.5	<2.5	69	<0.5
2,2-Dichloropropane	594-20-7	0.5	<2.5	<13	<0.5

INT-

Orange Coast Analytical, Inc

VOLATILE ORGANICS BY GC/MS (EPA 8260) (continued)

Laboratory Reference #: KJC 11015

Client Project ID: Boeing C-6
Client Project #: 994001

Sampled:	07/15/99	07/15/99	07/15/99
Received:	07/15/99	07/15/99	07/15/99
Analyzed:	07/16/99	07/15/99	07/15/99
Reported:	07/21/99	07/21/99	07/21/99
	SAMPLE DESCRIPTION (Water)		
Lab Sample I.D.	99070230	99070231	99070232
Client Sample I.D.	TMW1 -GW-2	TMW7 -GW-2	Trip Blanks

ANALYTE (CONT)	***CAS NUMBER***	***DETECTION LIMIT***	***SAMPLE RESULTS***		
		ug/l	***ug/l***	***ug/l***	***ug/l***
Bromochloromethane	74-97-5	0.5	<2.5	<13	<0.5
1,1-Dichloropropene	563-58-6	0.5	<2.5	<13	<0.5
Dibromomethane	74-95-3	0.5	<2.5	<13	<0.5
1,2-Dibromoethane	106-93-4	0.5	<2.5	<13	<0.5
1,3-Dichloropropane	142-28-9	0.5	<2.5	<13	<0.5
Isopropylbenzene	98-82-8	0.5	<2.5	<13	<0.5
1,1,2,2-Tetrachloroethane	79-34-5	0.5	<2.5	<13	<0.5
1,2,3-Trichloropropane	96-18-4	0.5	<2.5	<13	<0.5
Bromobenzene	108-86-1	0.5	<2.5	<13	<0.5
n-Propylbenzene	103-65-1	0.5	<2.5	<13	<0.5
2-Chlorotoluene	95-49-8	0.5	<2.5	<13	<0.5
1,3,5-Trimethylbenzene	108-67-8	0.5	<2.5	<13	<0.5
4-Chlorotoluene	106-43-4	0.5	<2.5	<13	<0.5
tert-Butylbenzene	98-06-6	0.5	<2.5	<13	<0.5
1,2,4-Trimethylbenzene	95-63-6	0.5	<2.5	<13	<0.5
sec-Butylbenzene	135-98-8	0.5	<2.5	<13	<0.5
4-Isopropyltoluene	99-87-6	0.5	<2.5	<13	<0.5
1,3-Dichlorobenzene	541-73-1	0.5	<2.5	<13	<0.5
1,4-Dichlorobenzene	106-46-7	0.5	<2.5	<13	<0.5
n-Butylbenzene	104-51-8	0.5	<2.5	<13	<0.5
1,2-Dichlorobenzene	95-50-1	0.5	<2.5	<13	<0.5
1-2-Dibromo-3-CPA	96-12-8	1.0	<5.0	<25	<1.0
1,2,4-Trichlorobenzene	120-82-1	0.5	<2.5	<13	<0.5
Hexachlorobutadiene	87-68-3	0.5	<2.5	<13	<0.5
Naphthalene	91-20-3	0.5	<2.5	<13	<0.5
1,2,3-Trichlorobenzene	87-61-6	0.5	<2.5	<13	<0.5

SURROGATE RECOVERY	%RC	%RC	%RC
Dibromofluoromethane	91	93	89
Toluene-d8	92	97	98
4-Bromofluorobenzene	97	96	99

Kennedy Jenks Consultants
ATTN: Mr. Rus Purcell
2151 Michelson Dr. Suite 100
Irvine, CA 92612

Client Project ID: Boeing C-6
Client Project #: 994001.00

Sample Description: Water,

Laboratory Reference #: KJC 11015

Sampled: 07/15/99
Received: 07/15/99
Analyzed: 07/16/99
Reported: 07/21/99

VOLATILE FUEL HYDROCARBONS (EPA 8015m)

LABORATORY SAMPLE NUMBER	*CLIENT SAMPLE NUMBER*	*SAMPLE RESULTS µg/l*
99070228	TMW6-GW-2	78
99070229	TMW4-GW-2	300
99070230	TMW1-GW-2	110
99070231	TMW7-GW-2	310
Detection Limit:		50

Volatile Fuel Hydrocarbons are quantitated against a gasoline standard. Hydrocarbons detected by this method range from C6 to C14. Analyte reported as N.D. was not present above the stated limit of detections.

INT

Orange Coast Analytical, Inc.

Kennedy Jenks Consultants
ATTN: Mr. Rus Purcell
2151 Michelson Dr. Suite 100
Irvine, CA 92612

Client Project ID: Boeing C-6
Client Project #: 994001.00

Sample Description: Water,

Laboratory Reference #: KJC 11015

Sampled: 07/15/99
Received: 07/15/99
Analyzed: 07/19/99
Reported: 07/21/99

DIESEL (EPA 8015m)

LABORATORY SAMPLE NUMBER	***CLIENT SAMPLE NUMBER***	***SAMPLE RESULTS mg/l***
99070228	TMW6-GW-2	N.D.
99070229	TMW4-GW-2	N.D.
99070230	TMW1-GW-2	N.D.
99070231	TMW7-GW-2	N.D.
Detection Limit:		0.5

Analyte reported as N.D. was not present above the stated limit of detection.

INT M.N.

Orange Coast Analytical, Inc.

Kennedy Jenks Consultants
ATTN: Mr. Rus Purcell
2151 Michelson Dr. Suite 100
Irvine, CA 92612

Client Project ID: Boeing C-6
Client Project #: 994001.00

SAMPLE DESCRIPTION (Water)

Laboratory Reference #: KJC 11015

Sampled:	---	07/15/99	07/15/99
Received:	---	07/15/99	07/15/99
Analyzed:	07/16/99	07/16/99	07/17/99
Reported:	07/21/99	07/21/99	07/21/99
Lab Sample I.D.	MB	99070228	99070229
Client Sample I.D.	---	TMW6 -GW-2	TMW4 -GW-2

SEMI VOLATILE ORGANICS BY GC/MS (EPA 8270)

ANALYTE	***CAS NUMBER***	***DETECTION LIMIT µg/l***		***SAMPLE RESULTS***	
			µg/l	***µg/l***	***µg/l***
Acenaphthene	83-32-9	5.0	<5.0	<5.0	<5.0
Acenaphthylene	208-96-8	5.0	<5.0	<5.0	<5.0
Aniline	62-53-3	5.0	<5.0	<5.0	<5.0
Anthracene	120-12-7	5.0	<5.0	<5.0	<5.0
Benzoic acid	65-85-0	50	<50	<50	<50
Benzo (a) anthracene	56-55-3	5.0	<5.0	<5.0	<5.0
Benzo (b) fluoranthene	205-99-2	25	<25	<25	<25
Benzo (k) fluoranthene	207-08-9	25	<25	<25	<25
Benzo (g,h,i) perylene	191-24-2	25	<25	<25	<25
Benzo (a) pyrene	50-32-8	25	<25	<25	<25
Benzyl alcohol	100-51-6	5.0	<5.0	<5.0	<5.0
bis-(2-chloroethoxy) methane	111-91-1	5.0	<5.0	<5.0	<5.0
bis-(2-chloroethyl) ether	111-44-4	5.0	<5.0	<5.0	<5.0
bis-(2-chloroisopropyl) ether	108-60-1	5.0	<5.0	<5.0	<5.0
bis-(2-ethylhexyl) phthalate	117-81-7	3.0	<3.0	<3.0	<3.0
4-Bromophenyl phenyl ether	101-55-3	5.0	<5.0	<5.0	<5.0
Butyl benzyl phthalate	85-68-7	5.0	<5.0	<5.0	<5.0
4-Chloroaniline	106-47-8	5.0	<5.0	<5.0	<5.0
2-Chloronaphthalene	91-58-7	5.0	<5.0	<5.0	<5.0
4-Chloro-3-methylphenol	59-50-7	5.0	<5.0	<5.0	<5.0
2-Chlorophenol	95-57-8	5.0	<5.0	<5.0	<5.0
4-Chlorophenyl phenyl ether	7005-72-3	5.0	<5.0	<5.0	<5.0
Chrysene	218-01-9	5.0	<5.0	<5.0	<5.0
Dibenz (a,h) anthracene	53-70-3	25	<25	<25	<25
Dibenzofuran	132-64-9	5.0	<5.0	<5.0	<5.0
Di-n-butyl phthalate	84-74-2	5.0	<5.0	<5.0	<5.0
1,3-Dichlorobenzene	541-73-1	5.0	<5.0	<5.0	<5.0
1,4-Dichlorobenzene	106-46-7	5.0	<5.0	<5.0	<5.0
1,2-Dichlorobenzene	95-50-1	5.0	<5.0	<5.0	<5.0
3,3-Dichlorobenzidine	91-94-1	5.0	<5.0	<5.0	<5.0
2,4-Dichlorophenol	120-83-2	5.0	<5.0	<5.0	<5.0
Diethyl phthalate	84-66-2	5.0	<5.0	<5.0	<5.0
2,4-Dimethylphenol	105-67-9	5.0	<5.0	<5.0	<5.0
Dimethyl phthalate	131-11-3	5.0	<5.0	<5.0	<5.0
4,6-Dinitro-2-methylphenol	534-52-1	50	<50	<50	<50

SEMI-VOLATILE ORGANICS BY GC/MS (EPA 8270) (continued)

Laboratory Reference #: KJC 11015

Client Project ID: Boeing C-6
Client Project #: 994001

Sampled:	---	07/15/99	07/15/99
Received:	---	07/15/99	07/15/99
Analyzed:	07/16/99	07/16/99	07/17/99
Reported:	07/21/99	07/21/99	07/21/99

		SAMPLE DESCRIPTION (Water)	
Lab Sample I.D.	MB	99070228	99070229
Client Sample I.D.	---	TMW6 -GW-2	TMW4 -GW-2

ANALYTE (CONT)	***CAS NUMBER***	***DETECTION LIMIT***		***SAMPLE RESULTS***	
		ug/l	***ug/l***	***ug/l***	***ug/l***
2,4-Dinitrophenol	51-28-5	50	<50	<50	<50
2,4-Dinitrotoluene	121-14-2	5.0	<5.0	<5.0	<5.0
2,6-Dinitrotoluene	606-20-2	5.0	<5.0	<5.0	<5.0
Di-n-octyl phthalate	117-84-0	25	<25	<25	<25
Fluoranthene	206-44-0	5.0	<5.0	<5.0	<5.0
Fluorene	86-73-7	5.0	<5.0	<5.0	<5.0
Hexachlorobenzene	118-74-1	5.0	<5.0	<5.0	<5.0
Hexachlorobutadiene	87-68-3	5.0	<5.0	<5.0	<5.0
Hexachlorocyclopentadiene	77-47-4	5.0	<5.0	<5.0	<5.0
Hexachloroethane	67-72-1	5.0	<5.0	<5.0	<5.0
Indeno (1,2,3-cd) pyrene	193-39-5	25	<25	<25	<25
Isophorone	78-59-1	5.0	<5.0	<5.0	<5.0
2-Methylnaphthalene	91-57-6	5.0	<5.0	<5.0	<5.0
2-Methylphenol	95-48-7	5.0	<5.0	<5.0	<5.0
4-Methylphenol	106-44-5	5.0	<5.0	<5.0	<5.0
Naphthalene	91-20-3	5.0	<5.0	<5.0	<5.0
2-Nitroaniline	88-74-4	50	<50	<50	<50
3-Nitroaniline	99-09-2	50	<50	<50	<50
4-Nitroaniline	100-01-6	50	<50	<50	<50
Nitrobenzene	98-95-3	5.0	<5.0	<5.0	<5.0
2-Nitrophenol	88-75-5	5.0	<5.0	<5.0	<5.0
4-Nitrophenol	100-02-7	50	<50	<50	<50
n-Nitrosodiphenylamine	86-30-6	5.0	<5.0	<5.0	<5.0
n-Nitrosodipropylamine	621-64-7	5.0	<5.0	<5.0	<5.0
n-Nitrosodimethylamine	62-75-9	5.0	<5.0	<5.0	<5.0
Pentachlorophenol	87-86-5	50	<50	<50	<50
Phenanthrene	85-01-8	5.0	<5.0	<5.0	<5.0
Phenol	108-95-2	5.0	<5.0	<5.0	<5.0
Pyrene	129-00-0	5.0	<5.0	<5.0	<5.0
1,2,4-Trichlorobenzene	120-82-1	5.0	<5.0	<5.0	<5.0
2,4,5-trichlorophenol	95-95-4	5.0	<5.0	<5.0	<5.0
2,4,6-Trichlorophenol	88-06-2	5.0	<5.0	<5.0	<5.0

Kennedy Jenks Consultants
ATTN: Mr. Rus Purcell
2151 Michelson Dr. Suite 100
Irvine, CA 92612

Client Project ID: Boeing C-6
Client Project #: 994001.00

SAMPLE DESCRIPTION (Water)

Laboratory Reference #: KJC 11015

Sampled:	07/15/99	07/15/99
Received:	07/15/99	07/15/99
Analyzed:	07/17/99	07/17/99
Reported:	07/21/99	07/21/99
Lab Sample I.D.	99070230	99070231
Client Sample I.D.	TMW1 -GW-2	TMW7 -GW-2

SEMI VOLATILE ORGANICS BY GC/MS (EPA 8270)

ANALYTE	***CAS NUMBER***	***DETECTION LIMIT µg/l***	***SAMPLE RESULTS µg/l***	***µg/l***
Acenaphthene	83-32-9	5.0	<5.0	<5.0
Acenaphthylene	208-96-8	5.0	<5.0	<5.0
Aniline	62-53-3	5.0	<5.0	<5.0
Anthracene	120-12-7	5.0	<5.0	<5.0
Benzoic acid	65-85-0	50	<50	<50
Benzo (a) anthracene	56-55-3	5.0	<5.0	<5.0
Benzo (b) fluoranthene	205-99-2	25	<25	<25
Benzo (k) fluoranthene	207-08-9	25	<25	<25
Benzo (g,h,i) perylene	191-24-2	25	<25	<25
Benzo (a) pyrene	50-32-8	25	<25	<25
Benzyl alcohol	100-51-6	5.0	<5.0	<5.0
bis-(2-chloroethoxy) methane	111-91-1	5.0	<5.0	<5.0
bis-(2-chloroethyl) ether	111-44-4	5.0	<5.0	<5.0
bis-(2-chloroisopropyl) ether	108-60-1	5.0	<5.0	<5.0
bis-(2-ethylhexyl) phthalate	117-81-7	3.0	<3.0	<3.0
4-Bromophenyl phenyl ether	101-55-3	5.0	<5.0	<5.0
Butyl benzyl phthalate	85-68-7	5.0	<5.0	<5.0
4-Chloroaniline	106-47-8	5.0	<5.0	<5.0
2-Chloronaphthalene	91-58-7	5.0	<5.0	<5.0
4-Chloro-3-methylphenol	59-50-7	5.0	<5.0	<5.0
2-Chlorophenol	95-57-8	5.0	<5.0	<5.0
4-Chlorophenyl phenyl ether	7005-72-3	5.0	<5.0	<5.0
Chrysene	218-01-9	5.0	<5.0	<5.0
Dibenz (a,h) anthracene	53-70-3	25	<25	<25
Dibenzofuran	132-64-9	5.0	<5.0	<5.0
Di-n-butyl phthalate	84-74-2	5.0	<5.0	<5.0
1,3-Dichlorobenzene	541-73-1	5.0	<5.0	<5.0
1,4-Dichlorobenzene	106-46-7	5.0	<5.0	<5.0
1,2-Dichlorobenzene	95-50-1	5.0	<5.0	<5.0
3,3-Dichlorobenzidine	91-94-1	5.0	<5.0	<5.0
2,4-Dichlorophenol	120-83-2	5.0	<5.0	<5.0
Diethyl phthalate	84-66-2	5.0	<5.0	<5.0
2,4-Dimethylphenol	105-67-9	5.0	<5.0	<5.0
Dimethyl phthalate	131-11-3	5.0	<5.0	<5.0
4,6-Dinitro-2-methylphenol	534-52-1	50	<50	<50

SEMI-VOLATILE ORGANICS BY GC/MS (EPA 8270) (continued)

Laboratory Reference #: KJC 11015

Client Project ID: Boeing C-6
Client Project #: 994001

Sampled:	07/15/99	07/15/99
Received:	07/15/99	07/15/99
Analyzed:	07/17/99	07/17/99
Reported:	07/21/99	07/21/99
	SAMPLE DESCRIPTION (Water)	
Lab Sample I.D.	99070230	99070231
Client Sample I.D.	TMW1 -GW-2	TMW7 -GW-2

ANALYTE (CONT)	***CAS NUMBER***	***DETECTION LIMIT***		***SAMPLE RESULTS***
		ug/l	***ug/l***	***ug/l***
2,4-Dinitrophenol	51-28-5	50	<50	<50
2,4-Dinitrotoluene	121-14-2	5.0	<5.0	<5.0
2,6-Dinitrotoluene	606-20-2	5.0	<5.0	<5.0
Di-n-octyl phthalate	117-84-0	25	<25	<25
Fluoranthene	206-44-0	5.0	<5.0	<5.0
Fluorene	86-73-7	5.0	<5.0	<5.0
Hexachlorobenzene	118-74-1	5.0	<5.0	<5.0
Hexachlorobutadiene	87-68-3	5.0	<5.0	<5.0
Hexachlorocyclopentadiene	77-47-4	5.0	<5.0	<5.0
Hexachloroethane	67-72-1	5.0	<5.0	<5.0
Indeno (1,2,3-cd) pyrene	193-39-5	25	<25	<25
Isophorone	78-59-1	5.0	<5.0	<5.0
2-Methylnaphthalene	91-57-6	5.0	<5.0	<5.0
2-Methylphenol	95-48-7	5.0	<5.0	<5.0
4-Methylphenol	106-44-5	5.0	<5.0	<5.0
Naphthalene	91-20-3	5.0	<5.0	<5.0
2-Nitroaniline	88-74-4	50	<50	<50
3-Nitroaniline	99-09-2	50	<50	<50
4-Nitroaniline	100-01-6	50	<50	<50
Nitrobenzene	98-95-3	5.0	<5.0	<5.0
2-Nitrophenol	88-75-5	5.0	<5.0	<5.0
4-Nitrophenol	100-02-7	50	<50	<50
n-Nitrosodiphenylamine	86-30-6	5.0	<5.0	<5.0
n-Nitrosodipropylamine	621-64-7	5.0	<5.0	<5.0
n-Nitrosodimethylamine	62-75-9	5.0	<5.0	<5.0
Pentachlorophenol	87-86-5	50	<50	<50
Phenanthrene	85-01-8	5.0	<5.0	<5.0
Phenol	108-95-2	5.0	<5.0	<5.0
Pyrene	129-00-0	5.0	<5.0	<5.0
1,2,4-Trichlorobenzene	120-82-1	5.0	<5.0	<5.0
2,4,5-trichlorophenol	95-95-4	5.0	<5.0	<5.0
2,4,6-Trichlorophenol	88-06-2	5.0	<5.0	<5.0

Kennedy Jenks Consultants
ATTN: Mr. Rus Purcell
2151 Michelson Dr. Suite 100
Irvine, CA 92612

Client Project ID: Boeing C-6
Client Project #: 994001.00

SAMPLE DESCRIPTION (Water)

Laboratory Reference #: KJC 11015

Sampled:	---	07/15/99	07/15/99
Received:	---	07/15/99	07/15/99
Analyzed:	07/19/99	07/19/99	07/19/99
Reported:	07/21/99	07/21/99	07/21/99
Lab Sample I.D.	MB	99070228	99070229
Client Sample I.D.	---	TMW6 -GW-2	TMW4 -GW-2

ORGANOCHLORINATED PESTICIDES (EPA 8081)

ANALYTE	***CAS NUMBER***	***DETECTION LIMIT µg/l***	***SAMPLE RESULTS***		
			µg/l	***µg/l***	***µg/l***
Aldrin	309-00-2	0.1	<0.1	<0.1	<0.1
alpha-BHC	319-84-6	0.2	<0.2	<0.2	<0.2
beta-BHC	319-85-7	0.2	<0.2	<0.2	<0.2
delta-BHC	319-86-8	0.2	<0.2	<0.2	<0.2
gamma-BHC (Lindane)	58-89-9	0.2	<0.2	<0.2	<0.2
Chlordane	57-74-9	0.2	<0.2	<0.2	<0.2
4,4'-DDD	72-54-8	0.5	<0.5	<0.5	<0.5
4,4'-DDE	72-55-9	0.1	<0.1	<0.1	<0.1
4,4'-DDT	50-29-3	0.1	<0.1	<0.1	<0.1
Dieldrin	60-57-1	0.5	<0.5	<0.5	<0.5
Endosulfan I	959-98-8	0.5	<0.5	<0.5	<0.5
Endosulfan II	33212-65-9	0.5	<0.5	<0.5	<0.5
Endosulfan sulfate	1031-07-8	0.5	<0.5	<0.5	<0.5
Endrin	72-20-8	0.02	<0.02	<0.02	<0.02
Endrin aldehyde	7421-93-4	0.2	<0.2	<0.2	<0.2
Heptachlor	76-44-8	0.1	<0.1	<0.1	<0.1
Heptachlor epoxide	1024-57-3	0.2	<0.2	<0.2	<0.2
Methoxychlor	72-43-5	9.0	<9.0	<9.0	<9.0
Toxaphene	8001-35-2	0.5	<0.5	<0.5	<0.5

Kennedy Jenks Consultants
ATTN: Mr. Rus Purcell
2151 Michelson Dr. Suite 100
Irvine, CA 92612

Client Project ID: Boeing C-6
Client Project #: 994001.00

SAMPLE DESCRIPTION (Water)

Laboratory Reference #: KJC 11015

Sampled:	07/15/99	07/15/99
Received:	07/15/99	07/15/99
Analyzed:	07/19/99	07/19/99
Reported:	07/21/99	07/21/99
Lab Sample I.D.	99070230	99070231
Client Sample I.D.	TMW1 -GW-2	TMW7 -GW-2

ORGANOCHLORINATED PESTICIDES (EPA 8081)

ANALYTE	***CAS NUMBER***	***DETECTION LIMIT µg/l***	***SAMPLE RESULTS µg/l***	***µg/l***
Aldrin	309-00-2	0.1	<0.1	<0.1
alpha-BHC	319-84-6	0.2	<0.2	<0.2
beta-BHC	319-85-7	0.2	<0.2	<0.2
delta-BHC	319-86-8	0.2	<0.2	<0.2
gamma-BHC (Lindane)	58-89-9	0.2	<0.2	<0.2
Chlordane	57-74-9	0.2	<0.2	<0.2
4,4'-DDD	72-54-8	0.5	<0.5	<0.5
4,4'-DDE	72-55-9	0.1	<0.1	<0.1
4,4'-DDT	50-29-3	0.1	<0.1	<0.1
Dieldrin	60-57-1	0.5	<0.5	<0.5
Endosulfan I	959-98-8	0.5	<0.5	<0.5
Endosulfan II	33212-65-9	0.5	<0.5	<0.5
Endosulfan sulfate	1031-07-8	0.5	<0.5	<0.5
Endrin	72-20-8	0.02	<0.02	<0.02
Endrin aldehyde	7421-93-4	0.2	<0.2	<0.2
Heptachlor	76-44-8	0.1	<0.1	<0.1
Heptachlor epoxide	1024-57-3	0.2	<0.2	<0.2
Methoxychlor	72-43-5	9.0	<9.0	<9.0
Toxaphene	8001-35-2	0.5	<0.5	<0.5

Kennedy Jenks Consultants
ATTN: Mr. Rus Purcell
2151 Michelson Dr. Suite 100
Irvine, CA 92612

Client Project ID: Boeing C-6
Client Project #: 994001.00

SAMPLE DESCRIPTION (Water)

Laboratory Reference #: KJC 11015

Sampled:	---	07/15/99	07/15/99
Received:	---	07/15/99	07/15/99
Reported:	07/21/99	07/21/99	07/21/99
Lab Sample I.D.	MB	99070228	99070229
Client Sample I.D.	---	TMW6 -GW-2	TMW4 -GW-2

CCR METALS

ANALYTE	***DATE TESTED***	***EPA METHOD***	***DETECTION LIMIT mg/l***	***SAMPLE RESULTS***		
				mg/l	***mg/l***	***mg/l***
Antimony	07/16/99	6010	0.1	<0.1	<0.1	<0.1
Arsenic	07/16/99	6010	0.1	<0.1	<0.1	<0.1
Barium	07/16/99	6010	0.01	<0.01	0.20	0.12
Beryllium	07/16/99	6010	0.01	<0.01	<0.01	<0.01
Cadmium	07/16/99	6010	0.01	<0.01	<0.01	<0.01
Chromium (VI)	07/15/99	7196	0.01	<0.01	0.024	<0.01
Chromium (Total)	07/16/99	6010	0.01	<0.01	0.024	0.017
Cobalt	07/16/99	6010	0.01	<0.01	<0.01	<0.01
Copper	07/16/99	6010	0.01	<0.01	<0.01	<0.01
Lead	07/16/99	6010	0.05	<0.05	<0.05	<0.05
Mercury	07/19/99	7471	0.001	<0.001	<0.001	<0.001
Molybdenum	07/16/99	6010	0.05	<0.05	<0.05	<0.05
Nickel	07/16/99	6010	0.01	<0.01	<0.01	<0.01
Selenium	07/16/99	6010	0.1	<0.1	<0.1	<0.1
Silver	07/16/99	6010	0.01	<0.01	<0.01	<0.01
Thallium	07/16/99	6010	0.1	<0.1	<0.1	<0.1
Vanadium	07/16/99	6010	0.01	<0.01	<0.01	<0.01
Zinc	07/16/99	6010	0.01	<0.01	0.028	0.016

Kennedy Jenks Consultants
ATTN: Mr. Rus Purcell
2151 Michelson Dr. Suite 100
Irvine, CA 92612

Client Project ID: Boeing C-6
Client Project #: 994001.00

SAMPLE DESCRIPTION (Water)

Laboratory Reference #: KJC 11015

Sampled:	07/15/99	07/15/99
Received:	07/15/99	07/15/99
Reported:	07/21/99	07/21/99
Lab Sample I.D.	99070230	99070231
Client Sample I.D.	TMW1 -GW-2	TMW7 -GW-2

CCR METALS

ANALYTE	***DATE TESTED***	***EPA METHOD***	***DETECTION LIMIT mg/l***	***SAMPLE RESULTS mg/l***	***mg/l***
Antimony	07/16/99	6010	0.1	<0.1	<0.1
Arsenic	07/16/99	6010	0.1	<0.1	<0.1
Barium	07/16/99	6010	0.01	0.24	0.11
Beryllium	07/16/99	6010	0.01	<0.01	<0.01
Cadmium	07/16/99	6010	0.01	<0.01	<0.01
Chromium (VI)	07/15/99	7196	0.01	0.042	<0.01
Chromium (Total)	07/16/99	6010	0.01	0.042	0.016
Cobalt	07/16/99	6010	0.01	<0.01	<0.01
Copper	07/16/99	6010	0.01	<0.01	<0.01
Lead	07/16/99	6010	0.05	<0.05	<0.05
Mercury	07/19/99	7471	0.001	<0.001	<0.001
Molybdenum	07/16/99	6010	0.05	<0.05	<0.05
Nickel	07/16/99	6010	0.01	<0.01	<0.01
Selenium	07/16/99	6010	0.1	<0.1	<0.1
Silver	07/16/99	6010	0.01	<0.01	<0.01
Thallium	07/16/99	6010	0.1	<0.1	<0.1
Vanadium	07/16/99	6010	0.01	<0.01	<0.01
Zinc	07/16/99	6010	0.01	0.020	0.045

QC DATA REPORT

Analysis : Volatile Organics by GC/MS (EPA 8260)

Date of Analysis : 07/16/99
Laboratory Sample No : 99070241
Laboratory Reference No : KJC 11015

Analyte	R1 (ppb)	SP (ppb)	MS (ppb)	MSD (ppb)	PR1 %	PR2 %	RPD %
Benzene	0.0	20	19	18	95	90	5
1,1-Dichloroethene	14	20	31	31	85	85	0
Trichloroethene	2.3	20	21	21	94	94	0
Toluene	0.0	20	18	17	90	85	6
Chlorobenzene	0.0	20	20	19	100	95	5

Definition of Terms :

R1	Results Of First Analysis
SP	Spike Concentration Added to Sample
MS	Matrix Spike Results
MSD	Matrix Spike Duplicate Results
PR1	Percent Recovery Of MS: {(MS-R1) / SP} x100
PR2	Percent Recovery Of MSD: {(MSD-R1) / SP} x 100
RPD	Relative Percent Difference: {(MS-MSD) / (MS+MSD)} x 100 x 2

INT m.n.

Orange Coast Analytical, Inc.

QC DATA REPORT

Analysis : Semi-Volatile Organics by GC/MS (EPA 8270)

Date of Analysis : 07/17/99
Laboratory Sample No : OCA100
Laboratory Reference No : KJC 11015

Analyte	R1 (ng)	SP (ng)	MS (ng)	MSD (ng)	PR1 %	PR2 %	RPD %
1,4-Dichlorobenzene	0.0	50	34	34	68	68	0
n-Nitroso-di-n-propylamine	0.0	50	42	43	84	86	2
1,2,4-Trichlorobenzene	0.0	50	37	36	74	72	3
Acenaphthene	0.0	50	40	41	80	82	2
Pyrene	0.0	50	45	45	90	90	0
Pentachlorophenol	0.0	100	90	93	90	93	3
4-Chloro-3-Methylphenol	0.0	100	79	77	79	77	3
2-Chlorophenol	0.0	100	75	77	75	77	3
Phenol	0.0	100	33	37	33	37	11

Definition of Terms :

R1	Results Of First Analysis
SP	Spike Concentration Added to Sample
MS	Matrix Spike Results
MSD	Matrix Spike Duplicate Results
PR1	Percent Recovery Of MS: {(MS-R1) / SP} x100
PR2	Percent Recovery Of MSD: {(MSD-R1) / SP} x 100
RPD	Relative Percent Difference: {(MS-MSD) / (MS+MSD)} x 100 x 2

INT m.n.

Orange Coast Analytical, Inc.

QC DATA REPORT

Analysis : Diesel (EPA 8015m)

Date of Analysis : 07/19/99
Laboratory Sample No : OCA 100
Laboratory Reference No : KJC 11015

Analyte	R1 (ppm)	SP (ppm)	MS (ppm)	MSD (ppm)	PR1 %	PR2 %	RPD %
Diesel	0.0	5.0	3.9	4.6	78	92	16

Definition of Terms :

R1	Results Of First Analysis
SP	Spike Concentration Added to Sample
MS	Matrix Spike Results
MSD	Matrix Spike Duplicate Results
PR1	Percent Recovery Of MS: {(MS-R1) / SP} x100
PR2	Percent Recovery Of MSD: {(MSD-R1) / SP} x 100
RPD	Relative Percent Difference: {(MS-MSD) / (MS+MSD)} x 100 x 2

INT m.n.

Orange Coast Analytical, Inc.

QC DATA REPORT

Analysis : Volatile Fuel Hydrocarbons

Date of Analysis : 07/16/99
Laboratory Sample No : 9970223
Laboratory Reference No : KJC 11015

Analyte	R1 (ppb)	SP (ppb)	MS (ppb)	MSD (ppb)	PR1 %	PR2 %	RPD %
Hydrocarbons	0.0	250	250	269	100	108	7

Definition of Terms :

R1	Results Of First Analysis
SP	Spike Concentration Added to Sample
MS	Matrix Spike Results
MSD	Matrix Spike Duplicate Results
PR1	Percent Recovery Of MS: {(MS-R1) / SP} x100
PR2	Percent Recovery Of MSD: {(MSD-R1) / SP} x 100
RPD	Relative Percent Difference: {(MS-MSD) / (MS+MSD)} x 100 x 2

INT m.n.

Orange Coast Analytical, Inc.

QC DATA REPORT

Analysis : Metals

Laboratory Reference No : KJC 11015

Analyte	Date Tested	QC Sample	R1 (ppm)	SP (ppm)	MS (ppm)	MSD (ppm)	PR1 %	PR2 %	RPD %
Antimony	07/16/99	99070241	0.00	1.00	1.08	1.11	108	111	3
Arsenic	07/16/99	99070241	0.00	1.00	1.11	1.16	111	116	4
Barium	07/16/99	99070241	0.24	0.100	0.334	0.340	94	100	2
Beryllium	07/16/99	99070241	0.00	0.100	0.106	0.109	106	109	3
Cadmium	07/16/99	99070241	0.00	0.100	0.096	0.098	96	98	2
Chromium (Total)	07/16/99	99070241	0.01	0.100	0.110	0.113	98	101	3
Chromium (VI)	07/15/99	OCA100	0.00	0.50	0.50	0.50	100	100	0
Cobalt	07/16/99	99070241	0.00	0.100	0.098	0.100	98	100	2
Copper	07/16/99	99070241	0.00	0.100	0.109	0.112	109	112	3
Lead	07/16/99	99070241	0.00	1.00	0.940	0.957	94	96	2
Mercury	07/19/99	OCA100	0.000	0.010	0.0089	0.0092	89	92	3
Molybdenum	07/16/99	99070241	0.00	1.00	1.07	1.11	107	111	4
Nickel	07/16/99	99070241	0.00	0.500	0.497	0.509	99	102	2
Selenium	07/16/99	99070241	0.00	1.00	1.19	1.19	119	119	0
Silver	07/16/99	99070241	0.00	0.500	0.500	0.509	100	102	2
Thallium	07/16/99	99070241	0.00	1.00	1.10	1.20	110	120	9
Vanadium	07/16/99	99070241	0.00	0.500	0.522	0.535	104	107	2
Zinc	07/16/99	99070241	0.017	0.100	0.108	0.110	91	93	2

Definition of Terms :

R1	Results Of First Analysis
SP	Spike Concentration Added to Sample
MS	Matrix Spike Results
MSD	Matrix Spike Duplicate Results
PR1	Percent Recovery Of MS: {(MS-R1) / SP} x100
PR2	Percent Recovery Of MSD: {(MSD-R1) / SP} x 100
RPD	Relative Percent Difference: {(MS-MSD) / (MS+MSD)} x 100 x 2

INT_____

Orange Coast Analytical, Inc.

QC DATA REPORT

Analysis : Organochlorine Pesticides (EPA 8081)

Date of Analysis :07/19/99
Laboratory Sample No : OCA 100
Laboratory Reference No : KJC 11015

Analyte	R1 (ppb)	SP (ppb)	MS (ppb)	MSD (ppb)	PR1 %	PR2 %	RPD %
4,4'-DDT	0.0	1.0	0.60	0.62	60	62	3

Definition of Terms :

R1	Results Of First Analysis
SP	Spike Concentration Added to Sample
MS	Matrix Spike Results
MSD	Matrix Spike Duplicate Results
PR1	Percent Recovery Of MS: {(MS-R1) / SP} x100
PR2	Percent Recovery Of MSD: {(MSD-R1) / SP} x 100
RPD	Relative Percent Difference: {(MS-MSD) / (MS+MSD)} x 100 x 2

INT m.n.

Orange Coast Analytical, Inc.

ORANGE COAST ANALYTICAL, INC.
PHONE MESSAGE

Initials: M.M. Date: 7/22/99

CLIENT: KJC CONTACT: Shane Scrimshure

PROJECT: Boeing C-6

Status: ✓ In Progress ___ Completed ___ Upcoming/Future

Date Received: 7/15/99

Samples: Action Item: Turnaround:

Sample identified on C.O.C. as TMW5-GW-2 should be TMW6-GW-2. Shane will fax a sheet with the correction.

Containers Requested:
___ voa vials
___ glass jars
___ 500 ml plastic
___ 1 liter plastic
___ 1 liter glass
___ trip blank
___ Other_____

Method Shipment:
___ cooler ___ Fed-Ex ASAP
___ box ___ UPS
___ Deliver by_____
___ Will Call on_____
Include:
___ Chain of Custody
___ Blue Ice

KENNEDY/JENKS CONSULTANTS

SAMPLE CHAIN-OF-CUSTODY ANALYSIS REQUEST

- ☐ 200 New Stine Rd., #115, Bakersfield, CA 93309
- ☐ 530 South 336th St., Federal Way, WA 98003
- ☐ 17310 Red Hill Ave., #220, Irvine, CA 92714
- ☐ 2191 East Bayshore Rd., #200, Palo Alto, CA 94303
- ☐ 5190 Neil Road, #300, Reno, NV 89502
- ☐ 3336 Bradshaw Rd., #140, Sacramento, CA 95827
- ☐ 303 Second St., San Francisco, CA 94107
- ☐ 1000 Hill Rd., #200, Ventura, CA 93003

POSSIBLE HAZARDS: _____

Date 7-15-99 | Report To Rus Purcell

Source of Samples Boeing C-6 | Company Kennedy / Jenks

Sampler Name Shane Scrimshire | Address 2151 Michelson Dr. #100

Phone 661 835-9785 | Irvine CA. 92612

Project No. 994001.00 | Phone 949-261-1577

Lab Destination _____

Address _____

Phone _____

Carrier/Way Bill No. _____

(1) Lab ID No.	(1) Client ID No.	COLLECTION Date	COLLECTION Time	(2) Type	Depth	(3) Comp.	(4) Pres.	Turn-around	8260 - VOCs	8015m - diesel + gas	8270 - SVOCs	8080 - Pest.	T-22 metals - 6010/7471				Comment/Conditions (Container type, container number, etc.)
	TMW5-GW-2	7/14/99	0815	W	—	—		Norm.	X	X	X	X	X				
	TMW4-GW-2	"	0915	"	—	—		"	X	X	X	X	X				
	TMW1-GW-2	"	1035	"	—	—		"	X	X	X	X	X				
	TMW7-GW-2	"	1130	"	—	—		"	X	X	X	X	X				
	Trip Blanks	"	~~1130~~	"	—	—		"	X								

(5) ANALYSES REQUESTED

(1) Write only one sample number in each space.
(2) Specify type of sample(s): Water (W), Solid (S), or indicate type.
(3) Mark each sample which should be composited in Laboratory as follows: Place an "A" in box for each sample that should be composited into one sample; use sequential letter for additional groups.
(4) Preservation of sample.
(5) Write each analyses requested across top. Place an "X" in appropriate column to indicate type of analysis needed for each sample.

SAMPLE RELINQUISHED BY:

Print Name	Signature	Company	Date	Time
Shane Scrimshire	[signature]	K/J	7/15/99	1315

SAMPLE RECEIVED BY:

Print Name	Signature	Company	Date	Time
Isaac Navarro	[signature]	OCA	7/15/99	13:15

BOE-C6-0045854

\MISC\CUSTODY2.FRM

000065.06

ORANGE COAST ANALYTICAL, INC.
3002 Dow, Suite 532, Tustin, CA 92780 (714) 832-0064 Fax (714) 832-0067
4620 E. Elwood, Suite 4, Phoenix, AZ 85040 (602) 736-0960 Fax (602) 736-0970

LABORATORY REPORT FORM

Laboratory Name: ORANGE COAST ANALYTICAL, INC.

Address: 3002 Dow Suite 532 Tustin, CA 92780

Telephone: (714) 832-0064

Laboratory Certification
(ELAP) No.: 1416 Expiration Date: 2001

Laboratory Director's Name (Print) : Mark Noorani

Client: Kennedy Jenks Consultants

Project No.: Boeing C-6

Project Name: 994001.00

Laboratory Reference: KJC 11017

Analytical Method: 8260, Metals, 8080 Pesticides, 8270, 8015m gas, 8015m diesel

Date Sampled: 07/15/99
Date Received: 07/16/99
Date Reported: 07/21/99

Sample Matrix: Water

Chain of Custody Received: Yes

Laboratory Director's Signature: Mark Noorani

Kennedy Jenks Consultants
ATTN: Mr. Rus Purcell
2151 Michelson Dr. Suite 100
Irvine, CA 92612

Client Project ID: Boeing C-6
Client Project #: 994001.00

SAMPLE DESCRIPTION (Water)

Laboratory Reference #: KJC 11017

Sampled:	---	07/15/99	07/15/99
Received:	---	07/15/99	07/15/99
Analyzed:	07/16/99	07/16/99	07/16/99
Reported:	07/21/99	07/21/99	07/21/99
Lab Sample I.D.	MB	99070239	99070240
Client Sample I.D.	---	TMW8 -GW-2	TMW3 -GW-2

VOLATILE ORGANICS BY GC/MS (EPA 8260)

ANALYTE	***CAS NUMBER***	***DETECTION LIMIT µg/l***		***SAMPLE RESULTS***	
			µg/l	***µg/l***	***µg/l***
Benzene	71-43-2	0.5	<0.5	27	<50
Bromodichloromethane	75-27-4	1.0	<1.0	<25	<100
Bromoform	75-25-2	0.5	<0.5	<13	<50
Bromomethane	74-83-9	1.0	<1.0	<25	<100
Carbon Disulfide	75-15-0	0.5	<0.5	<13	<50
Carbon tetrachloride	56-23-5	0.5	<0.5	<13	<50
Chlorobenzene	108-90-7	0.5	<0.5	<13	<50
Chlorodibromomethane	124-48-1	0.5	<0.5	<13	<50
Chloroethane	75-00-3	0.5	<0.5	<13	<50
2-Chloroethyl vinyl ether	110-75-8	0.5	<0.5	<13	<50
Chloroform	67-66-3	0.5	<0.5	16	<50
Chloromethane	74-87-3	0.5	<0.5	<13	<50
1,1-Dichloroethane	75-34-3	0.5	<0.5	52	<50
1,2-Dichloroethane	107-06-2	0.5	<0.5	19	<50
1,1-Dichloroethene	75-35-4	0.5	<0.5	3500	340
trans-1,2-Dichloroethene	156-60-5	0.5	<0.5	74	<50
1,2-Dichloropropane	78-87-5	0.5	<0.5	<13	<50
cis-1,3-Dichloropropene	10061-01-5	0.5	<0.5	<13	<50
trans-1,3-Dichloropropene	10061-02-6	0.5	<0.5	<13	<50
Ethylbenzene	100-41-4	0.5	<0.5	<13	<50
Methylene chloride	75-09-2	2.5	<2.5	<13	<250
Styrene	100-42-5	0.5	<0.5	<13	<50
1,1,2,2-Tetrachloroethane	79-34-5	0.5	<0.5	<13	<50
Tetrachloroethene	127-18-4	0.5	<0.5	<13	<50
Toluene	108-88-3	0.5	<0.5	<13	<50
1,1,1-Trichloroethane	71-55-6	0.5	<0.5	<13	<50
1,1,2-Trichloroethane	79-00-5	0.5	<0.5	13	<50
Trichloroethene	79-01-6	0.5	<0.5	3000	7800
Trichlorofluoromethane	75-69-4	0.5	<0.5	<13	<50
Vinyl acetate	108-05-4	1.0	<1.0	<25	<100
Vinyl chloride	75-01-4	0.5	<0.5	<13	<50
Total Xylenes	1330-20-7	1.0	<1.0	<25	<100
Dichlorodifluoromethane	75-71-8	0.5	<0.5	<13	<50
cis-1,2-Dichloroethene	156-59-2	0.5	<0.5	92	<50
2,2-Dichloropropane	594-20-7	0.5	<0.5	<13	<50

VOLATILE ORGANICS BY GC/MS (EPA 8260) (continued)

Laboratory Reference #: KJC 11017

Client Project ID: Boeing C-6
Client Project #: 994001

Sampled:	---	07/15/99	07/15/99
Received:	---	07/15/99	07/15/99
Analyzed:	07/16/99	07/16/99	07/16/99
Reported:	07/21/99	07/21/99	07/21/99

Lab Sample I.D.	MB	99070239	99070240
Client Sample I.D.	---	TMW8 -GW-2	TMW3 -GW-2

ANALYTE (CONT)	***CAS NUMBER***	***DETECTION LIMIT***		***SAMPLE RESULTS***	
		ug/l	***ug/l***	***ug/l***	***ug/l***
Bromochloromethane	74-97-5	0.5	<0.5	<13	<50
1,1-Dichloropropene	563-58-6	0.5	<0.5	<13	<50
Dibromomethane	74-95-3	0.5	<0.5	<13	<50
1,2-Dibromoethane	106-93-4	0.5	<0.5	<13	<50
1,3-Dichloropropane	142-28-9	0.5	<0.5	<13	<50
Isopropylbenzene	98-82-8	0.5	<0.5	<13	<50
1,1,2,2-Tetrachloroethane	79-34-5	0.5	<0.5	<13	<50
1,2,3-Trichloropropane	96-18-4	0.5	<0.5	<13	<50
Bromobenzene	108-86-1	0.5	<0.5	<13	<50
n-Propylbenzene	103-65-1	0.5	<0.5	<13	<50
2-Chlorotoluene	95-49-8	0.5	<0.5	<13	<50
1,3,5-Trimethylbenzene	108-67-8	0.5	<0.5	<13	<50
4-Chlorotoluene	106-43-4	0.5	<0.5	<13	<50
tert-Butylbenzene	98-06-6	0.5	<0.5	<13	<50
1,2,4-Trimethylbenzene	95-63-6	0.5	<0.5	<13	<50
sec-Butylbenzene	135-98-8	0.5	<0.5	<13	<50
4-Isopropyltoluene	99-87-6	0.5	<0.5	<13	<50
1,3-Dichlorobenzene	541-73-1	0.5	<0.5	<13	<50
1,4-Dichlorobenzene	106-46-7	0.5	<0.5	<13	<50
n-Butylbenzene	104-51-8	0.5	<0.5	<13	<50
1,2-Dichlorobenzene	95-50-1	0.5	<0.5	<13	<50
1-2-Dibromo-3-CPA	96-12-8	1.0	<1.0	<25	<100
1,2,4-Trichlorobenzene	120-82-1	0.5	<0.5	<13	<50
Hexachlorobutadiene	87-68-3	0.5	<0.5	<13	<50
Naphthalene	91-20-3	0.5	<0.5	<13	<50
1,2,3-Trichlorobenzene	87-61-6	0.5	<0.5	<13	<50

SURROGATE RECOVERY	%RC	%RC	%RC
Dibromofluoromethane	92	93	94
Toluene-d8	95	96	94
4-Bromofluorobenzene	96	96	97

INT-

Kennedy Jenks Consultants
ATTN: Mr. Rus Purcell
2151 Michelson Dr. Suite 100
Irvine, CA 92612

Client Project ID: Boeing C-6
Client Project #: 994001.00

SAMPLE DESCRIPTION (Water)

Laboratory Reference #: KJC 11017

Sampled:	07/15/99	07/15/99
Received:	07/15/99	07/15/99
Analyzed:	07/16/99	07/16/99
Reported:	07/21/99	07/21/99
Lab Sample I.D.	99070241	99070242
Client Sample I.D.	WCC5S -GW-2	Trip Blank

VOLATILE ORGANICS BY GC/MS (EPA 8260)

ANALYTE	***CAS NUMBER***	***DETECTION LIMIT µg/l***	***SAMPLE RESULTS µg/l***	***µg/l***
Benzene	71-43-2	0.5	<0.5	<0.5
Bromodichloromethane	75-27-4	1.0	<1.0	<1.0
Bromoform	75-25-2	0.5	<0.5	<0.5
Bromomethane	74-83-9	1.0	<1.0	<1.0
Carbon Disulfide	75-15-0	0.5	<0.5	<0.5
Carbon tetrachloride	56-23-5	0.5	<0.5	<0.5
Chlorobenzene	108-90-7	0.5	<0.5	<0.5
Chlorodibromomethane	124-48-1	0.5	<0.5	<0.5
Chloroethane	75-00-3	0.5	<0.5	<0.5
2-Chloroethyl vinyl ether	110-75-8	0.5	<0.5	<0.5
Chloroform	67-66-3	0.5	<0.5	<0.5
Chloromethane	74-87-3	0.5	<0.5	<0.5
1,1-Dichloroethane	75-34-3	0.5	<0.5	<0.5
1,2-Dichloroethane	107-06-2	0.5	<0.5	<0.5
1,1-Dichloroethene	75-35-4	0.5	14	<0.5
trans-1,2-Dichloroethene	156-60-5	0.5	<0.5	<0.5
1,2-Dichloropropane	78-87-5	0.5	<0.5	<0.5
cis-1,3-Dichloropropene	10061-01-5	0.5	<0.5	<0.5
trans-1,3-Dichloropropene	10061-02-6	0.5	<0.5	<0.5
Ethylbenzene	100-41-4	0.5	<0.5	<0.5
Methylene chloride	75-09-2	2.5	<2.5	<2.5
Styrene	100-42-5	0.5	<0.5	<0.5
1,1,2,2-Tetrachloroethane	79-34-5	0.5	<0.5	<0.5
Tetrachloroethene	127-18-4	0.5	<0.5	<0.5
Toluene	108-88-3	0.5	<0.5	<0.5
1,1,1-Trichloroethane	71-55-6	0.5	<0.5	<0.5
1,1,2-Trichloroethane	79-00-5	0.5	<0.5	<0.5
Trichloroethene	79-01-6	0.5	2.3	<0.5
Trichlorofluoromethane	75-69-4	0.5	<0.5	<0.5
Vinyl acetate	108-05-4	1.0	<1.0	<1.0
Vinyl chloride	75-01-4	0.5	<0.5	<0.5
Total Xylenes	1330-20-7	1.0	<1.0	<1.0
Dichlorodifluoromethane	75-71-8	0.5	<0.5	<0.5
cis-1,2-Dichloroethene	156-59-2	0.5	<0.5	<0.5
2,2-Dichloropropane	594-20-7	0.5	<0.5	<0.5

INT-

Orange Coast Analytical, Inc

VOLATILE ORGANICS BY GC/MS (EPA 8260) (continued)

Laboratory Reference #: KJC 11017

Client Project ID: Boeing C-6
Client Project #: 994001

Sampled:	07/15/99	07/15/99
Received:	07/15/99	07/15/99
Analyzed:	07/16/99	07/16/99
Reported:	07/21/99	07/21/99
Lab Sample I.D.	99070241	99070242
Client Sample I.D.	WCC5S -GW-2	Trip Blank

ANALYTE (CONT)	***CAS NUMBER***	***DETECTION LIMIT ug/l***	***SAMPLE RESULTS*** ***ug/l***	***ug/l***
Bromochloromethane	74-97-5	0.5	<0.5	<0.5
1,1-Dichloropropene	563-58-6	0.5	<0.5	<0.5
Dibromomethane	74-95-3	0.5	<0.5	<0.5
1,2-Dibromoethane	106-93-4	0.5	<0.5	<0.5
1,3-Dichloropropane	142-28-9	0.5	<0.5	<0.5
Isopropylbenzene	98-82-8	0.5	<0.5	<0.5
1,1,2,2-Tetrachloroethane	79-34-5	0.5	<0.5	<0.5
1,2,3-Trichloropropane	96-18-4	0.5	<0.5	<0.5
Bromobenzene	108-86-1	0.5	<0.5	<0.5
n-Propylbenzene	103-65-1	0.5	<0.5	<0.5
2-Chlorotoluene	95-49-8	0.5	<0.5	<0.5
1,3,5-Trimethylbenzene	108-67-8	0.5	<0.5	<0.5
4-Chlorotoluene	106-43-4	0.5	<0.5	<0.5
tert-Butylbenzene	98-06-6	0.5	<0.5	<0.5
1,2,4-Trimethylbenzene	95-63-6	0.5	<0.5	<0.5
sec-Butylbenzene	135-98-8	0.5	<0.5	<0.5
4-Isopropyltoluene	99-87-6	0.5	<0.5	<0.5
1,3-Dichlorobenzene	541-73-1	0.5	<0.5	<0.5
1,4-Dichlorobenzene	106-46-7	0.5	<0.5	<0.5
n-Butylbenzene	104-51-8	0.5	<0.5	<0.5
1,2-Dichlorobenzene	95-50-1	0.5	<0.5	<0.5
1-2-Dibromo-3-CPA	96-12-8	1.0	<1.0	<1.0
1,2,4-Trichlorobenzene	120-82-1	0.5	<0.5	<0.5
Hexachlorobutadiene	87-68-3	0.5	<0.5	<0.5
Naphthalene	91-20-3	0.5	<0.5	<0.5
1,2,3-Trichlorobenzene	87-61-6	0.5	<0.5	<0.5

SURROGATE RECOVERY	%RC	%RC
Dibromofluoromethane	91	89
Toluene-d8	96	94
4-Bromofluorobenzene	97	96

INT-m.n.

Orange Coast Analytical, Inc

Kennedy Jenks Consultants
ATTN: Mr. Rus Purcell
2151 Michelson Dr. Suite 100
Irvine, CA 92612

Client Project ID: Boeing C-6
Client Project #: 994001.00

SAMPLE DESCRIPTION (Water)

Laboratory Reference #: KJC 11017

Sampled:	---	07/14/99	07/14/99	07/14/99
Received:	---	07/15/99	07/15/99	07/15/99
Analyzed:	07/17/99	07/17/99	07/17/99	07/17/99
Reported:	07/21/99	07/21/99	07/21/99	07/21/99
Lab Sample I.D.	MB	99070239	99070240	99070241
Client Sample I.D.	---	TMW8 -GW-2	TMW3 -GW-2	WCC-5S -GW-2

SEMI VOLATILE ORGANICS BY GC/MS (EPA 8270)

ANALYTE	***CAS NUMBER***	***DETECTION LIMIT***	***SAMPLE RESULTS***			
		µg/l	***µg/l***	***µg/l***	***µg/l***	***µg/l***
Acenaphthene	83-32-9	5.0	<5.0	<5.0	<5.0	<5.0
Acenaphthylene	208-96-8	5.0	<5.0	<5.0	<5.0	<5.0
Aniline	62-53-3	5.0	<5.0	<5.0	<5.0	<5.0
Anthracene	120-12-7	5.0	<5.0	<5.0	<5.0	<5.0
Benzoic acid	65-85-0	50	<50	<50	<50	<50
Benzo (a) anthracene	56-55-3	5.0	<5.0	<5.0	<5.0	<5.0
Benzo (b) fluoranthene	205-99-2	25	<25	<25	<25	<25
Benzo (k) fluoranthene	207-08-9	25	<25	<25	<25	<25
Benzo (g,h,i) perylene	191-24-2	25	<25	<25	<25	<25
Benzo (a) pyrene	50-32-8	25	<25	<25	<25	<25
Benzyl alcohol	100-51-6	5.0	<5.0	<5.0	<5.0	<5.0
bis-(2-chloroethoxy) methane	111-91-1	5.0	<5.0	<5.0	<5.0	<5.0
bis-(2-chloroethyl) ether	111-44-4	5.0	<5.0	<5.0	<5.0	<5.0
bis-(2-chloroisopropyl) ether	108-60-1	5.0	<5.0	<5.0	<5.0	<5.0
bis-(2-ethylhexyl) phthalate	117-81-7	3.0	<3.0	<3.0	<3.0	<3.0
4-Bromophenyl phenyl ether	101-55-3	5.0	<5.0	<5.0	<5.0	<5.0
Butyl benzyl phthalate	85-68-7	5.0	<5.0	<5.0	<5.0	<5.0
4-Chloroaniline	106-47-8	5.0	<5.0	<5.0	<5.0	<5.0
2-Chloronaphthalene	91-58-7	5.0	<5.0	<5.0	<5.0	<5.0
4-Chloro-3-methylphenol	59-50-7	5.0	<5.0	<5.0	<5.0	<5.0
2-Chlorophenol	95-57-8	5.0	<5.0	<5.0	<5.0	<5.0
4-Chlorophenyl phenyl ether	7005-72-3	5.0	<5.0	<5.0	<5.0	<5.0
Chrysene	218-01-9	5.0	<5.0	<5.0	<5.0	<5.0
Dibenz (a,h) anthracene	53-70-3	25	<25	<25	<25	<25
Dibenzofuran	132-64-9	5.0	<5.0	<5.0	<5.0	<5.0
Di-n-butyl phthalate	84-74-2	5.0	<5.0	<5.0	<5.0	<5.0
1,3-Dichlorobenzene	541-73-1	5.0	<5.0	<5.0	<5.0	<5.0
1,4-Dichlorobenzene	106-46-7	5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichlorobenzene	95-50-1	5.0	<5.0	<5.0	<5.0	<5.0
3,3-Dichlorobenzidine	91-94-1	5.0	<5.0	<5.0	<5.0	<5.0
2,4-Dichlorophenol	120-83-2	5.0	<5.0	<5.0	<5.0	<5.0
Diethyl phthalate	84-66-2	5.0	<5.0	<5.0	<5.0	<5.0
2,4-Dimethylphenol	105-67-9	5.0	<5.0	<5.0	<5.0	<5.0
Dimethyl phthalate	131-11-3	5.0	<5.0	<5.0	<5.0	<5.0
4,6-Dinitro-2-methylphenol	534-52-1	50	<50	<50	<50	<50

SEMI-VOLATILE ORGANICS BY GC/MS (EPA 8270) (continued)

Laboratory Reference #: KJC 11017

Client Project ID: Boeing C-6
Client Project #: 994001

Sampled:	---	07/14/99	07/14/99	07/14/99
Received:	---	07/15/99	07/15/99	07/15/99
Analyzed:	07/17/99	07/17/99	07/17/99	07/17/99
Reported:	07/21/99	07/21/99	07/21/99	07/21/99
Lab Sample I.D.	MB	99070239	99070240	99070241
Client Sample I.D.	---	TMW8 -GW-2	TMW3 -GW-2	WCC-5S -GW-2

ANALYTE (CONT)	***CAS NUMBER***	***DETECTION LIMIT***	***SAMPLE RESULTS***			
		ug/l	***ug/l***	***ug/l***	***ug/l***	***ug/l***
2,4-Dinitrophenol	51-28-5	50	<50	<50	<50	<50
2,4-Dinitrotoluene	121-14-2	5.0	<5.0	<5.0	<5.0	<5.0
2,6-Dinitrotoluene	606-20-2	5.0	<5.0	<5.0	<5.0	<5.0
Di-n-octyl phthalate	117-84-0	25	<25	<25	<25	<25
Fluoranthene	206-44-0	5.0	<5.0	<5.0	<5.0	<5.0
Fluorene	86-73-7	5.0	<5.0	<5.0	<5.0	<5.0
Hexachlorobenzene	118-74-1	5.0	<5.0	<5.0	<5.0	<5.0
Hexachlorobutadiene	87-68-3	5.0	<5.0	<5.0	<5.0	<5.0
Hexachlorocyclopentadiene	77-47-4	5.0	<5.0	<5.0	<5.0	<5.0
Hexachloroethane	67-72-1	5.0	<5.0	<5.0	<5.0	<5.0
Indeno (1,2,3-cd) pyrene	193-39-5	25	<25	<25	<25	<25
Isophorone	78-59-1	5.0	<5.0	<5.0	<5.0	<5.0
2-Methylnaphthalene	91-57-6	5.0	<5.0	<5.0	<5.0	<5.0
2-Methylphenol	95-48-7	5.0	<5.0	<5.0	<5.0	<5.0
4-Methylphenol	106-44-5	5.0	<5.0	<5.0	<5.0	<5.0
Naphthalene	91-20-3	5.0	<5.0	<5.0	<5.0	<5.0
2-Nitroaniline	88-74-4	50	<50	<50	<50	<50
3-Nitroaniline	99-09-2	50	<50	<50	<50	<50
4-Nitroaniline	100-01-6	50	<50	<50	<50	<50
Nitrobenzene	98-95-3	5.0	<5.0	<5.0	<5.0	<5.0
2-Nitrophenol	88-75-5	5.0	<5.0	<5.0	<5.0	<5.0
4-Nitrophenol	100-02-7	50	<50	<50	<50	<50
n-Nitrosodiphenylamine	86-30-6	5.0	<5.0	<5.0	<5.0	<5.0
n-Nitrosodipropylamine	621-64-7	5.0	<5.0	<5.0	<5.0	<5.0
n-Nitrosodimethylamine	62-75-9	5.0	<5.0	<5.0	<5.0	<5.0
Pentachlorophenol	87-86-5	50	<50	<50	<50	<50
Phenanthrene	85-01-8	5.0	<5.0	<5.0	<5.0	<5.0
Phenol	108-95-2	5.0	<5.0	<5.0	<5.0	<5.0
Pyrene	129-00-0	5.0	<5.0	<5.0	<5.0	<5.0
1,2,4-Trichlorobenzene	120-82-1	5.0	<5.0	<5.0	<5.0	<5.0
2,4,5-trichlorophenol	95-95-4	5.0	<5.0	<5.0	<5.0	<5.0
2,4,6-Trichlorophenol	88-06-2	5.0	<5.0	<5.0	<5.0	<5.0

Kennedy Jenks Consultants
ATTN: Mr. Rus Purcell
2151 Michelson Dr. Suite 100
Irvine, CA 92612

Client Project ID: Boeing C-6
Client Project #: 994001.00

Sampled: 07/15/99
Received: 07/15/99
Analyzed: 07/20/99
Reported: 07/21/99

Sample Description: Water,

Laboratory Reference #: KJC 11017

VOLATILE FUEL HYDROCARBONS (EPA 8015m)

LABORATORY SAMPLE NUMBER	***CLIENT SAMPLE NUMBER***	***SAMPLE RESULTS µg/l***
99070239	TMW8-GW-2	1,000
99070240	TMW3-GW-2	3,200
99070241	WCC5S-GW-2	N.D.

Detection Limit:	50

Volatile Fuel Hydrocarbons are quantitated against a gasoline standard. Hydrocarbons detected by this method range from C6 to C14. Analyte reported as N.D. was not present above the stated limit of detections.

INT m.n.

Orange Coast Analytical, Inc.

Kennedy Jenks Consultants
ATTN: Mr. Rus Purcell
2151 Michelson Dr. Suite 100
Irvine, CA 92612

Client Project ID: Boeing C-6
Client Project #: 994001.00

Sample Description: Water,

Laboratory Reference #: KJC 11017

Sampled: 07/15/99
Received: 07/16/99
Analyzed: 07/19/99
Reported: 07/21/99

DIESEL (EPA 8015m)

LABORATORY SAMPLE NUMBER	***CLIENT SAMPLE NUMBER***	***SAMPLE RESULTS mg/l***
99070239	TMW8-GW-2	N.D.
99070240	TMW3-GW-2	N.D.
99070241	WCC5S-GW-2	N.D.
Detection Limit:		0.5

Analyte reported as N.D. was not present above the stated limit of detection.

INT m.n.

Orange Coast Analytical, Inc.

Kennedy Jenks Consultants
ATTN: Mr. Rus Purcell
2151 Michelson Dr. Suite 100
Irvine, CA 92612

Client Project ID: Boeing C-6
Client Project #: 994001.00

SAMPLE DESCRIPTION (Water)

Laboratory Reference #: KJC 11017

Sampled:	---	07/15/99	07/15/99	07/15/99
Received:	---	07/15/99	07/15/99	07/15/99
Analyzed:	07/19/99	07/19/99	07/19/99	07/19/99
Reported:	07/21/99	07/21/99	07/21/99	07/21/99
Lab Sample I.D.	MB	99070239	99070240	99070241
Client Sample I.D.	---	TMW8 -GW-2	TMW3 -GW-2	WCC-5S -GW-2

ORGANOCHLORINATED PESTICIDES (EPA 8081)

ANALYTE	***CAS NUMBER***	***DETECTION LIMIT µg/l***	***SAMPLE RESULTS***			
			µg/l	***µg/l***	***µg/l***	***µg/l***
Aldrin	309-00-2	0.1	<0.1	<0.1	<0.1	<0.1
alpha-BHC	319-84-6	0.2	<0.2	<0.2	<0.2	<0.2
beta-BHC	319-85-7	0.2	<0.2	<0.2	<0.2	<0.2
delta-BHC	319-86-8	0.2	<0.2	<0.2	<0.2	<0.2
gamma-BHC (Lindane)	58-89-9	0.2	<0.2	<0.2	<0.2	<0.2
Chlordane	57-74-9	0.2	<0.2	<0.2	<0.2	<0.2
4,4'-DDD	72-54-8	0.5	<0.5	<0.5	<0.5	<0.5
4,4'-DDE	72-55-9	0.1	<0.1	<0.1	<0.1	<0.1
4,4'-DDT	50-29-3	0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	60-57-1	0.5	<0.5	<0.5	<0.5	<0.5
Endosulfan I	959-98-8	0.5	<0.5	<0.5	<0.5	<0.5
Endosulfan II	33212-65-9	0.5	<0.5	<0.5	<0.5	<0.5
Endosulfan sulfate	1031-07-8	0.5	<0.5	<0.5	<0.5	<0.5
Endrin	72-20-8	0.02	<0.02	<0.02	<0.02	<0.02
Endrin aldehyde	7421-93-4	0.2	<0.2	<0.2	<0.2	<0.2
Heptachlor	76-44-8	0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor epoxide	1024-57-3	0.2	<0.2	<0.2	<0.2	<0.2
Methoxychlor	72-43-5	9.0	<9.0	<9.0	<9.0	<9.0
Toxaphene	8001-35-2	0.5	<0.5	<0.5	<0.5	<0.5

INT-

Orange Coast Analytical, Inc

Kennedy Jenks Consultants
ATTN: Mr. Rus Purcell
2151 Michelson Dr. Suite 100
Irvine, CA 92612

Client Project ID: Boeing C-6
Client Project #: 994001.00

SAMPLE DESCRIPTION (Water)

Laboratory Reference #: KJC 11017

Sampled:	---	07/15/99	07/15/99	07/15/99
Received:	---	07/15/99	07/15/99	07/15/99
Reported:	07/21/99	07/21/99	07/21/99	07/21/99
Lab Sample I.D.	MB	99070239	99070240	99070241
Client Sample I.D.	---	TMW8 -GW-2	TMW3 -GW-2	WCC-5S -GW-2

CCR METALS

ANALYTE	***DATE TESTED***	***EPA METHOD***	***DETECTION LIMIT mg/l***	***SAMPLE RESULTS***			
				mg/l	***mg/l***	***mg/l***	***mg/l***
Antimony	07/16/99	6010	0.1	<0.1	<0.1	<0.1	<0.1
Arsenic	07/16/99	6010	0.1	<0.1	<0.1	<0.1	<0.1
Barium	07/16/99	6010	0.01	<0.01	0.088	0.12	0.24
Beryllium	07/16/99	6010	0.01	<0.01	<0.01	<0.01	<0.01
Cadmium	07/16/99	6010	0.01	<0.01	<0.01	<0.01	<0.01
Chromium (VI)	07/16/99	7196	0.01	<0.01	<0.01	<0.01	<0.01
Chromium (Total)	07/16/99	6010	0.01	<0.01	<0.01	0.023	<0.01
Cobalt	07/16/99	6010	0.01	<0.01	<0.01	<0.01	<0.01
Copper	07/16/99	6010	0.01	<0.01	<0.01	<0.01	<0.01
Lead	07/16/99	6010	0.05	<0.05	<0.05	<0.05	<0.05
Mercury	07/19/99	7471	0.001	<0.001	<0.001	<0.001	<0.001
Molybdenum	07/16/99	6010	0.05	<0.05	<0.05	<0.05	<0.05
Nickel	07/16/99	6010	0.01	<0.01	<0.01	<0.01	<0.01
Selenium	07/16/99	6010	0.1	<0.1	<0.1	<0.1	<0.1
Silver	07/16/99	6010	0.01	<0.01	<0.01	<0.01	<0.01
Thallium	07/16/99	6010	0.1	<0.1	<0.1	<0.1	<0.1
Vanadium	07/16/99	6010	0.01	<0.01	<0.01	<0.01	<0.01
Zinc	07/16/99	6010	0.01	<0.01	0.022	0.11	0.017

QC DATA REPORT

Analysis : Volatile Organics by GC/MS (EPA 8260)

Date of Analysis : 07/16/99
Laboratory Sample No : 99070241
Laboratory Reference No : KJC 11017

Analyte	R1 (ppb)	SP (ppb)	MS (ppb)	MSD (ppb)	PR1 %	PR2 %	RPD %
Benzene	0.0	20	19	18	95	90	5
1,1-Dichloroethene	14	20	31	31	85	85	0
Trichloroethene	2.3	20	21	21	94	94	0
Toluene	0.0	20	18	17	90	85	6
Chlorobenzene	0.0	20	20	19	100	95	5

Definition of Terms :

R1	Results Of First Analysis
SP	Spike Concentration Added to Sample
MS	Matrix Spike Results
MSD	Matrix Spike Duplicate Results
PR1	Percent Recovery Of MS: {(MS-R1) / SP} x100
PR2	Percent Recovery Of MSD: {(MSD-R1) / SP} x 100
RPD	Relative Percent Difference: {(MS-MSD) / (MS+MSD)} x 100 x 2

INT m.n.

Orange Coast Analytical, Inc.

QC DATA REPORT

Analysis : Semi-Volatile Organics by GC/MS (EPA 8270)

Date of Analysis : 07/17/99
Laboratory Sample No : OCA 100
Laboratory Reference No : KJC 11017

Analyte	R1 (ng)	SP (ng)	MS (ng)	MSD (ng)	PR1 %	PR2 %	RPD %
1,4-Dichlorobenzene	0.0	50	29	25	58	50	15
n-Nitroso-di-n-propylamine	0.0	50	41	42	82	84	2
1,2,4-Trichlorobenzene	0.0	50	32	27	64	54	17
Acenaphthene	0.0	50	39	37	78	74	5
Pyrene	0.0	50	43	43	86	86	0
Pentachlorophenol	0.0	100	89	95	89	95	7
4-Chloro-3-Methylphenol	0.0	100	77	79	77	79	3
2-Chlorophenol	0.0	100	71	74	71	74	4
Phenol	0.0	100	24	28	24	28	15

Definition of Terms :

R1	Results Of First Analysis
SP	Spike Concentration Added to Sample
MS	Matrix Spike Results
MSD	Matrix Spike Duplicate Results
PR1	Percent Recovery Of MS: {(MS-R1) / SP} x100
PR2	Percent Recovery Of MSD: {(MSD-R1) / SP} x 100
RPD	Relative Percent Difference: {(MS-MSD) / (MS+MSD)} x 100 x 2

INT m.n.

Orange Coast Analytical, Inc.

QC DATA REPORT

Analysis : Diesel (EPA 8015m)

Date of Analysis : 07/19/99
Laboratory Sample No : OCA 100
Laboratory Reference No : KJC 11017

Analyte	R1 (ppm)	SP (ppm)	MS (ppm)	MSD (ppm)	PR1 %	PR2 %	RPD %
Diesel	0.0	5.0	3.9	4.6	78	92	16

Definition of Terms :

R1	Results Of First Analysis
SP	Spike Concentration Added to Sample
MS	Matrix Spike Results
MSD	Matrix Spike Duplicate Results
PR1	Percent Recovery Of MS: {(MS-R1) / SP} x100
PR2	Percent Recovery Of MSD: {(MSD-R1) / SP} x 100
RPD	Relative Percent Difference: {(MS-MSD) / (MS+MSD)} x 100 x 2

INT m.n.

Orange Coast Analytical, Inc.

QC DATA REPORT

Analysis : Volatile Fuel Hydrocarbons

Date of Analysis : 07/20/99
Laboratory Sample No : 99070241
Laboratory Reference No : KJC 11017

Analyte	R1 (ppb)	SP (ppb)	MS (ppb)	MSD (ppb)	PR1 %	PR2 %	RPD %
Hydrocarbons	0.0	250	246	234	98	94	5

Definition of Terms :

R1	Results Of First Analysis
SP	Spike Concentration Added to Sample
MS	Matrix Spike Results
MSD	Matrix Spike Duplicate Results
PR1	Percent Recovery Of MS: {(MS-R1) / SP} x100
PR2	Percent Recovery Of MSD: {(MSD-R1) / SP} x 100
RPD	Relative Percent Difference: {(MS-MSD) / (MS+MSD)} x 100 x 2

INT m.n.

Orange Coast Analytical, Inc.

QC DATA REPORT

Analysis : Organochlorine Pesticides (EPA 8081)

Date of Analysis :07/19/99
Laboratory Sample No :OCA 100
Laboratory Reference No : KJC 11017

Analyte	R1 (ppb)	SP (ppb)	MS (ppb)	MSD (ppb)	PR1 %	PR2 %	RPD %
4,4'-DDT	0.0	1.0	0.60	0.62	60	62	3

Definition of Terms :

R1	Results Of First Analysis
SP	Spike Concentration Added to Sample
MS	Matrix Spike Results
MSD	Matrix Spike Duplicate Results
PR1	Percent Recovery Of MS: {(MS-R1) / SP} x100
PR2	Percent Recovery Of MSD: {(MSD-R1) / SP} x 100
RPD	Relative Percent Difference: {(MS-MSD) / (MS+MSD)} x 100 x 2

INT m.n.

Orange Coast Analytical, Inc.

QC DATA REPORT

Analysis : Metals

Laboratory Reference No :
Laboratory Reference No : KJC 11017

Analyte	Date Tested	QC Sample	R1 (ppm)	SP (ppm)	MS (ppm)	MSD (ppm)	PR1 %	PR2 %	RPD %
Antimony	07/16/99	99070241	0.00	1.00	1.08	1.11	108	111	3
Arsenic	07/16/99	99070241	0.00	1.00	1.11	1.16	111	116	4
Barium	07/16/99	99070241	0.24	0.100	0.334	0.340	94	100	2
Beryllium	07/16/99	99070241	0.00	0.100	0.106	0.109	106	109	3
Cadmium	07/16/99	99070241	0.00	0.100	0.096	0.098	96	98	2
Chromium (Total)	07/16/99	99070241	0.01	0.100	0.110	0.113	98	101	3
Chromium (VI)	07/16/99	OCA100	0.00	0.50	0.50	0.52	100	104	4
Cobalt	07/16/99	99070241	0.00	0.100	0.098	0.100	98	100	2
Copper	07/16/99	99070241	0.00	0.100	0.109	0.112	109	112	3
Lead	07/16/99	99070241	0.00	1.00	0.940	0.957	94	96	2
Mercury	07/19/99	OCA100	0.000	0.010	0.0089	0.0092	89	92	3
Molybdenum	07/16/99	99070241	0.00	1.00	1.07	1.11	107	111	4
Nickel	07/16/99	99070241	0.00	0.500	0.497	0.509	99	102	2
Selenium	07/16/99	99070241	0.00	1.00	1.19	1.19	119	119	0
Silver	07/16/99	99070241	0.00	0.500	0.500	0.509	100	102	2
Thallium	07/16/99	99070241	0.00	1.00	1.10	1.20	110	120	9
Vanadium	07/16/99	99070241	0.00	0.500	0.522	0.535	104	107	2
Zinc	07/16/99	99070241	0.017	0.100	0.108	0.110	91	93	2

Definition of Terms :

R1	Results Of First Analysis
SP	Spike Concentration Added to Sample
MS	Matrix Spike Results
MSD	Matrix Spike Duplicate Results
PR1	Percent Recovery Of MS: {(MS-R1) / SP} x100
PR2	Percent Recovery Of MSD: {(MSD-R1) / SP} x 100
RPD	Relative Percent Difference: {(MS-MSD) / (MS+MSD)} x 100 x 2

INT m.n.

Orange Coast Analytical, Inc.

ENNEDY/JENKS CONSULTANTS

AMPLE CHAIN-OF-CUSTODY ANALYSIS REQUEST

200 New Stine Rd., #116, Bakersfield, CA 93309
630 South 336th St., Federal Way, WA 98003
17310 Red Hill Ave., #220, Irvine, CA 92714
2191 East Bayshore Rd., #200, Palo Alto, CA 94303
6190 Neil Road, #300, Reno, NV 89502
3336 Bradshaw Rd., #140, Sacramento, CA 95827
303 Second St., San Francisco, CA 94107
1000 Hill Rd., #200, Ventura, CA 93003

POSSIBLE HAZARDS:

Date 7-15-99

Source of Samples Boeing C-6

Sampler Name Shane Scrimshire

Phone 661-835-9785

Project No. 994001 00

Report To Rus Purcell

Company Kennedy/Jenks

Address 2151 Michelson Dr. #100
Irvine CA. 92612

Phone 949-261-1577

Lab Destination Orange Coast

Address

Phone

Carrier/Way Bill No.

(1) Lab ID No.	(1) Client ID No.	COLLECTION Date	COLLECTION Time	(2) Type	Depth	(3) Comp.	(4) Pres.	Turn-around	(5) ANALYSES REQUESTED: 8260 - VOCs	8015m - diesel + gas	8270 - SVOCs	8080 - Pest.	T-22 metals - 6010/7471/7196				Comment/Conditions (Container type, container number, etc.)
	TMW8-GW-2	7/15/99	1415	W	—	—	HCL + HNO3	Norm.	X	X	X	X	X				
	TMW3-GW-2	"	1515	"	—	—	"	"	X	X	X	X	X				
	WCC5S-GW-2	"	1710	"	—	—	"	"	X	X	X	X	X				
	Trip Blank	"	—	"	—	—	HCL	"	X								

) Write only one sample number in each space.
) Specify type of sample(s): Water (W), Solid (S), or indicate type.
) Mark each sample which should be composited in Laboratory as follows: Place an "A" in box for each sample that should be composited into one sample; use sequential letter for additional groups.
) Preservation of sample.
) Write each analyses requested across top. Place an "X" in appropriate column to indicate type of analysis needed for each sample.

AMPLE RELINQUISHED BY:

Print Name	Signature	Company	Date	Time
hane Scrimshire	[signature]	K/J	7/16/99	0700
EHRAN HASHEMI	Mehran Hashemi	OCA	7/16/99	0700

SAMPLE RECEIVED BY:

Print Name	Signature	Company	Date	Time

SC\CUSTODY2.FRM

000065 06

BOE-C6-0045872

VOLATILE ORGANICS BY GC/MS (EPA 8260) (continued)

Laboratory Reference #: KJC 11021

Client Project ID: Boeing C-6
Client Project #: 994001

Sampled:	---	07/16/99	07/16/99	07/16/99
Received:	---	07/16/99	07/16/99	07/16/99
Analyzed:	07/19/99	07/19/99	07/19/99	07/19/99
Reported:	07/22/99	07/22/99	07/22/99	07/22/99

ANALYTE (CONT)	***CAS NUMBER***	***DETECTION LIMIT***	***Lab Sample I.D.***	99070257	99070258	99070259
			Client Sample I.D.	WCC3D -GW-2	WCC3D -GW-2-D	WCC3S -GW-2
				SAMPLE RESULTS		
		ug/l	***ug/l***	***ug/l***	***ug/l***	***ug/l***
Bromochloromethane	74-97-5	0.5	<0.5	<0.5	<0.5	<250
1,1-Dichloropropene	563-58-6	0.5	<0.5	<0.5	<0.5	<250
Dibromomethane	74-95-3	0.5	<0.5	<0.5	<0.5	<250
1,2-Dibromoethane	106-93-4	0.5	<0.5	<0.5	<0.5	<250
1,3-Dichloropropane	142-28-9	0.5	<0.5	<0.5	<0.5	<250
Isopropylbenzene	98-82-8	0.5	<0.5	<0.5	<0.5	<250
1,1,2,2-Tetrachloroethane	79-34-5	0.5	<0.5	<0.5	<0.5	<250
1,2,3-Trichloropropane	96-18-4	0.5	<0.5	<0.5	<0.5	<250
Bromobenzene	108-86-1	0.5	<0.5	<0.5	<0.5	<250
n-Propylbenzene	103-65-1	0.5	<0.5	<0.5	<0.5	<250
2-Chlorotoluene	95-49-8	0.5	<0.5	<0.5	<0.5	<250
1,3,5-Trimethylbenzene	108-67-8	0.5	<0.5	<0.5	<0.5	<250
4-Chlorotoluene	106-43-4	0.5	<0.5	<0.5	<0.5	<250
tert-Butylbenzene	98-06-6	0.5	<0.5	<0.5	<0.5	<250
1,2,4-Trimethylbenzene	95-63-6	0.5	<0.5	<0.5	<0.5	<250
sec-Butylbenzene	135-98-8	0.5	<0.5	<0.5	<0.5	<250
4-Isopropyltoluene	99-87-6	0.5	<0.5	<0.5	<0.5	<250
1,3-Dichlorobenzene	541-73-1	0.5	<0.5	<0.5	<0.5	<250
1,4-Dichlorobenzene	106-46-7	0.5	<0.5	<0.5	<0.5	<250
n-Butylbenzene	104-51-8	0.5	<0.5	<0.5	<0.5	<250
1,2-Dichlorobenzene	95-50-1	0.5	<0.5	<0.5	<0.5	<250
1-2-Dibromo-3-CPA	96-12-8	1.0	<1.0	<1.0	<1.0	<500
1,2,4-Trichlorobenzene	120-82-1	0.5	<0.5	<0.5	<0.5	<250
Hexachlorobutadiene	87-68-3	0.5	<0.5	<0.5	<0.5	<250
Naphthalene	91-20-3	0.5	<0.5	<0.5	<0.5	<250
1,2,3-Trichlorobenzene	87-61-6	0.5	<0.5	<0.5	<0.5	<250

SURROGATE RECOVERY	%RC	%RC	%RC	%RC
Dibromofluoromethane	89	92	95	95
Toluene-d8	94	96	94	96
4-Bromofluorobenzene	96	97	97	97

ORANGE COAST ANALYTICAL, INC.
3002 Dow, Suite 532, Tustin, CA 92780 (714) 832-0064 Fax (714) 832-0067
4620 E. Elwood, Suite 4, Phoenix, AZ 85040 (602) 736-0960 Fax (602) 736-0970

LABORATORY REPORT FORM

Laboratory Name: ORANGE COAST ANALYTICAL, INC.

Address: 3002 Dow Suite 532 Tustin, CA 92780

Telephone: (714) 832-0064

Laboratory Certification
(ELAP) No.: 1416 Expiration Date: 2001

Laboratory Director's Name (Print) : Mark Noorani

Client: Kennedy Jenks Consultants

Project No.: Boeing C-6

Project Name: 994001.00

Laboratory Reference: KJC 11021

Analytical Method: 8260, Metals, 8080 Pesticides, 8270, 8015m gas, 8015m diesel

Date Sampled: 07/16/99
Date Received: 07/16/99
Date Reported: 07/22/99

Sample Matrix: Water

Chain of Custody Received: Yes

Laboratory Director's Signature: Mark Noorani

Kennedy Jenks Consultants
ATTN: Mr. Rus Purcell
2151 Michelson Dr. Suite 100
Irvine, CA 92612

Client Project ID: Boeing C-6
Client Project #: 994001.00

SAMPLE DESCRIPTION (Water)

Laboratory Reference #: KJC 11021

Sampled:	---	07/16/99	07/16/99	07/16/99
Received:	---	07/16/99	07/16/99	07/16/99
Analyzed:	07/19/99	07/19/99	07/19/99	07/19/99
Reported:	07/22/99	07/22/99	07/22/99	07/22/99
Lab Sample I.D.	MB	99070257	99070258	99070259
Client Sample I.D.	---	WCC3D -GW-2	WCC3D -GW-2-D	WCC3S -GW-2

VOLATILE ORGANICS BY GC/MS (EPA 8260)

ANALYTE	***CAS NUMBER***	***DETECTION LIMIT***	***SAMPLE RESULTS***			
		µg/l	***µg/l***	***µg/l***	***µg/l***	***µg/l***
Benzene	71-43-2	0.5	<0.5	<0.5	<0.5	380
Bromodichloromethane	75-27-4	1.0	<1.0	<1.0	<1.0	<500
Bromoform	75-25-2	0.5	<0.5	<0.5	<0.5	<250
Bromomethane	74-83-9	1.0	<1.0	<1.0	<1.0	<500
Carbon Disulfide	75-15-0	0.5	<0.5	<0.5	<0.5	<250
Carbon tetrachloride	56-23-5	0.5	<0.5	<0.5	<0.5	<250
Chlorobenzene	108-90-7	0.5	<0.5	<0.5	<0.5	<250
Chlorodibromomethane	124-48-1	0.5	<0.5	<0.5	<0.5	<250
Chloroethane	75-00-3	0.5	<0.5	<0.5	<0.5	<250
2-Chloroethyl vinyl ether	110-75-8	0.5	<0.5	<0.5	<0.5	<250
Chloroform	67-66-3	0.5	<0.5	<0.5	<0.5	<250
Chloromethane	74-87-3	0.5	<0.5	<0.5	<0.5	<250
1,1-Dichloroethane	75-34-3	0.5	<0.5	<0.5	<0.5	780
1,2-Dichloroethane	107-06-2	0.5	<0.5	<0.5	<0.5	<250
1,1-Dichloroethene	75-35-4	0.5	<0.5	4.7	4.4	32,000
trans-1,2-Dichloroethene	156-60-5	0.5	<0.5	<0.5	<0.5	1,000
1,2-Dichloropropane	78-87-5	0.5	<0.5	<0.5	<0.5	<250
cis-1,3-Dichloropropene	10061-01-5	0.5	<0.5	<0.5	<0.5	<250
trans-1,3-Dichloropropene	10061-02-6	0.5	<0.5	<0.5	<0.5	<250
Ethylbenzene	100-41-4	0.5	<0.5	<0.5	<0.5	<250
Methylene chloride	75-09-2	2.5	<2.5	<2.5	<2.5	<1250
Styrene	100-42-5	0.5	<0.5	<0.5	<0.5	<250
1,1,2,2-Tetrachloroethane	79-34-5	0.5	<0.5	<0.5	<0.5	<250
Tetrachloroethene	127-18-4	0.5	<0.5	<0.5	<0.5	<250
Toluene	108-88-3	0.5	<0.5	1.7	1.3	54,000
1,1,1-Trichloroethane	71-55-6	0.5	<0.5	6.4	5.7	2,700
1,1,2-Trichloroethane	79-00-5	0.5	<0.5	<0.5	<0.5	<250
Trichloroethene	79-01-6	0.5	<0.5	6.2	5.8	810
Trichlorofluoromethane	75-69-4	0.5	<0.5	<0.5	<0.5	<250
Vinyl acetate	108-05-4	1.0	<1.0	<1.0	<1.0	<500
Vinyl chloride	75-01-4	0.5	<0.5	<0.5	<0.5	<250
Total Xylenes	1330-20-7	1.0	<1.0	<1.0	<1.0	<500
Dichlorodifluoromethane	75-71-8	0.5	<0.5	<0.5	<0.5	<250
cis-1,2-Dichloroethene	156-59-2	0.5	<0.5	1.8	1.9	8,600
2,2-Dichloropropane	594-20-7	0.5	<0.5	<0.5	<0.5	<250

Kennedy Jenks Consultants
ATTN: Mr. Rus Purcell
2151 Michelson Dr. Suite 100
Irvine, CA 92612

Client Project ID: Boeing C-6
Client Project #: 994001.00

SAMPLE DESCRIPTION (Water)

Laboratory Reference #: KJC 11021

Sampled:	07/16/99	07/16/99	07/16/99	07/16/99
Received:	07/16/99	07/16/99	07/16/99	07/16/99
Analyzed:	07/19/99	07/19/99	07/19/99	07/19/99
Reported:	07/22/99	07/22/99	07/22/99	07/22/99
Lab Sample I.D.	99070260	99070261	99070262	99070263
Client Sample I.D.	WCC6S -GW-2	TMW2- -GW-2	Rinsate Blank	DACP1 -GW-2

VOLATILE ORGANICS BY GC/MS (EPA 8260)

ANALYTE	***CAS NUMBER***	***DETECTION LIMIT***	***SAMPLE RESULTS***			
		µg/l	***µg/l***	***µg/l***	***µg/l***	***µg/l***
Benzene	71-43-2	0.5	<50	<125	<0.5	<125
Bromodichloromethane	75-27-4	1.0	<100	<250	<1.0	<250
Bromoform	75-25-2	0.5	<50	<125	<0.5	<125
Bromomethane	74-83-9	1.0	<100	<250	<1.0	<250
Carbon Disulfide	75-15-0	0.5	<50	<125	<0.5	<125
Carbon tetrachloride	56-23-5	0.5	<50	<125	<0.5	<125
Chlorobenzene	108-90-7	0.5	<50	<125	<0.5	<125
Chlorodibromomethane	124-48-1	0.5	<50	<125	<0.5	<125
Chloroethane	75-00-3	0.5	<50	<125	<0.5	<125
2-Chloroethyl vinyl ether	110-75-8	0.5	<50	<125	<0.5	<125
Chloroform	67-66-3	0.5	<50	280	<0.5	<125
Chloromethane	74-87-3	0.5	<50	<125	<0.5	<125
1,1-Dichloroethane	75-34-3	0.5	94	1,900	<0.5	<125
1,2-Dichloroethane	107-06-2	0.5	<50	<125	<0.5	<125
1,1-Dichloroethene	75-35-4	0.5	7300	43,000	<0.5	<125
trans-1,2-Dichloroethene	156-60-5	0.5	130	930	<0.5	<125
1,2-Dichloropropane	78-87-5	0.5	<50	<125	<0.5	<125
cis-1,3-Dichloropropene	10061-01-5	0.5	<50	<125	<0.5	<125
trans-1,3-Dichloropropene	10061-02-6	0.5	<50	<125	<0.5	<125
Ethylbenzene	100-41-4	0.5	<50	<125	<0.5	<125
Methylene chloride	75-09-2	2.5	<250	<630	<2.5	<630
Styrene	100-42-5	0.5	<50	<125	<0.5	<125
1,1,2,2-Tetrachloroethane	79-34-5	0.5	<50	<125	<0.5	<125
Tetrachloroethene	127-18-4	0.5	<50	<125	<0.5	<125
Toluene	108-88-3	0.5	860	<125	<0.5	<125
1,1,1-Trichloroethane	71-55-6	0.5	390	2,700	<0.5	<125
1,1,2-Trichloroethane	79-00-5	0.5	<50	<125	<0.5	<125
Trichloroethene	79-01-6	0.5	3000	32,000	<0.5	18000
Trichlorofluoromethane	75-69-4	0.5	<50	<125	<0.5	<125
Vinyl acetate	108-05-4	1.0	<100	<250	<1.0	<250
Vinyl chloride	75-01-4	0.5	<50	<125	<0.5	<125
Total Xylenes	1330-20-7	1.0	<100	<250	<1.0	<250
Dichlorodifluoromethane	75-71-8	0.5	<50	<125	<0.5	<125
cis-1,2-Dichloroethene	156-59-2	0.5	1000	1,000	<0.5	<125
2,2-Dichloropropane	594-20-7	0.5	<50	<125	<0.5	<125

INT-m.n.

Orange Coast Analytical, Inc

VOLATILE ORGANICS BY GC/MS (EPA 8260) (continued)

Laboratory Reference #: KJC 11021

Client Project ID: Boeing C-6
Client Project #: 994001

Sampled:	07/16/99	07/16/99	07/16/99	07/16/99
Received:	07/16/99	07/16/99	07/16/99	07/19/99
Analyzed:	07/19/99	07/19/99	07/19/99	07/22/99
Reported:	07/22/99	07/22/99	07/22/99	01/00/00

		Lab Sample I.D.	99070260	99070261	99070262	99070263
		Client Sample I.D.	WCC6S -GW-2	TMW2- -GW-2	Rinsate Blank	DACP1 -GW-2
ANALYTE (CONT)	***CAS NUMBER***	***DETECTION LIMIT***		***SAMPLE RESULTS***		
		ug/l	***ug/l***	***ug/l***	***ug/l***	***ug/l***
Bromochloromethane	74-97-5	0.5	<50	<125	<0.5	<125
1,1-Dichloropropene	563-58-6	0.5	<50	<125	<0.5	<125
Dibromomethane	74-95-3	0.5	<50	<125	<0.5	<125
1,2-Dibromoethane	106-93-4	0.5	<50	<125	<0.5	<125
1,3-Dichloropropane	142-28-9	0.5	<50	<125	<0.5	<125
Isopropylbenzene	98-82-8	0.5	<50	<125	<0.5	<125
1,1,2,2-Tetrachloroethane	79-34-5	0.5	<50	<125	<0.5	<125
1,2,3-Trichloropropane	96-18-4	0.5	<50	<125	<0.5	<125
Bromobenzene	108-86-1	0.5	<50	<125	<0.5	<125
n-Propylbenzene	103-65-1	0.5	<50	<125	<0.5	<125
2-Chlorotoluene	95-49-8	0.5	<50	<125	<0.5	<125
1,3,5-Trimethylbenzene	108-67-8	0.5	<50	<125	<0.5	<125
4-Chlorotoluene	106-43-4	0.5	<50	<125	<0.5	<125
tert-Butylbenzene	98-06-6	0.5	<50	<125	<0.5	<125
1,2,4-Trimethylbenzene	95-63-6	0.5	<50	<125	<0.5	<125
sec-Butylbenzene	135-98-8	0.5	<50	<125	<0.5	<125
4-Isopropyltoluene	99-87-6	0.5	<50	<125	<0.5	<125
1,3-Dichlorobenzene	541-73-1	0.5	<50	<125	<0.5	<125
1,4-Dichlorobenzene	106-46-7	0.5	<50	<125	<0.5	<125
n-Butylbenzene	104-51-8	0.5	<50	<125	<0.5	<125
1,2-Dichlorobenzene	95-50-1	0.5	<50	<125	<0.5	<125
1-2-Dibromo-3-CPA	96-12-8	1.0	<100	<250	<1.0	<250
1,2,4-Trichlorobenzene	120-82-1	0.5	<50	<125	<0.5	<125
Hexachlorobutadiene	87-68-3	0.5	<50	<125	<0.5	<125
Naphthalene	91-20-3	0.5	<50	<125	<0.5	<125
1,2,3-Trichlorobenzene	87-61-6	0.5	<50	<125	<0.5	<125

SURROGATE RECOVERY	%RC	%RC	%RC	%RC
Dibromofluoromethane	94	101	96	96
Toluene-d8	95	93	94	94
4-Bromofluorobenzene	96	98	96	96

INT

Kennedy Jenks Consultants
ATTN: Mr. Rus Purcell
2151 Michelson Dr. Suite 100
Irvine, CA 92612

Client Project ID: Boeing C-6
Client Project #: 994001.00

SAMPLE DESCRIPTION (Water)

Laboratory Reference #: KJC 11021

Sampled:	07/16/99	---	07/16/99
Received:	07/16/99	---	07/16/99
Analyzed:	07/19/99	07/19/99	07/19/99
Reported:	07/22/99	07/22/99	07/22/99
Lab Sample I.D.	99070264	99070265	99070266
Client Sample I.D.	Field Blank	Trip Blank	TMW16 -GW-2

VOLATILE ORGANICS BY GC/MS (EPA 8260)

ANALYTE	***CAS NUMBER***	***DETECTION LIMIT***	***SAMPLE RESULTS***		
		µg/l	***µg/l***	***µg/l***	***µg/l***
Benzene	71-43-2	0.5	<0.5	<0.5	<0.5
Bromodichloromethane	75-27-4	1.0	<1.0	<1.0	<1.0
Bromoform	75-25-2	0.5	<0.5	<0.5	<0.5
Bromomethane	74-83-9	1.0	<1.0	<1.0	<1.0
Carbon Disulfide	75-15-0	0.5	<0.5	<0.5	<0.5
Carbon tetrachloride	56-23-5	0.5	<0.5	<0.5	<0.5
Chlorobenzene	108-90-7	0.5	<0.5	<0.5	<0.5
Chlorodibromomethane	124-48-1	0.5	<0.5	<0.5	<0.5
Chloroethane	75-00-3	0.5	<0.5	<0.5	<0.5
2-Chloroethyl vinyl ether	110-75-8	0.5	<0.5	<0.5	<0.5
Chloroform	67-66-3	0.5	<0.5	<0.5	<0.5
Chloromethane	74-87-3	0.5	<0.5	<0.5	<0.5
1,1-Dichloroethane	75-34-3	0.5	<0.5	<0.5	<0.5
1,2-Dichloroethane	107-06-2	0.5	<0.5	<0.5	<0.5
1,1-Dichloroethene	75-35-4	0.5	<0.5	<0.5	<0.5
trans-1,2-Dichloroethene	156-60-5	0.5	<0.5	<0.5	<0.5
1,2-Dichloropropane	78-87-5	0.5	<0.5	<0.5	<0.5
cis-1,3-Dichloropropene	10061-01-5	0.5	<0.5	<0.5	<0.5
trans-1,3-Dichloropropene	10061-02-6	0.5	<0.5	<0.5	<0.5
Ethylbenzene	100-41-4	0.5	<0.5	<0.5	<0.5
Methylene chloride	75-09-2	2.5	<2.5	<2.5	<2.5
Styrene	100-42-5	0.5	<0.5	<0.5	<0.5
1,1,2,2-Tetrachloroethane	79-34-5	0.5	<0.5	<0.5	<0.5
Tetrachloroethene	127-18-4	0.5	<0.5	<0.5	0.98
Toluene	108-88-3	0.5	<0.5	<0.5	<0.5
1,1,1-Trichloroethane	71-55-6	0.5	<0.5	<0.5	<0.5
1,1,2-Trichloroethane	79-00-5	0.5	<0.5	<0.5	<0.5
Trichloroethene	79-01-6	0.5	<0.5	<0.5	2.7
Trichlorofluoromethane	75-69-4	0.5	<0.5	<0.5	<0.5
Vinyl acetate	108-05-4	1.0	<1.0	<1.0	<1.0
Vinyl chloride	75-01-4	0.5	<0.5	<0.5	<0.5
Total Xylenes	1330-20-7	1.0	<1.0	<1.0	<1.0
Dichlorodifluoromethane	75-71-8	0.5	<0.5	<0.5	<0.5
cis-1,2-Dichloroethene	156-59-2	0.5	<0.5	<0.5	<0.5
2,2-Dichloropropane	594-20-7	0.5	<0.5	<0.5	<0.5

INT-m.n.

Orange Coast Analytical, Inc

VOLATILE ORGANICS BY GC/MS (EPA 8260) (continued)

Laboratory Reference #: KJC 11021

Client Project ID: Boeing C-6
Client Project #: 994001

Sampled:	07/16/99	---	07/16/99
Received:	07/16/99	---	07/16/99
Analyzed:	07/19/99	07/19/99	07/19/99
Reported:	07/22/99	07/22/99	07/22/99

ANALYTE (CONT)	***CAS NUMBER***	***DETECTION LIMIT***	***Lab Sample I.D.*** 99070264	99070265	99070266
			Client Sample I.D. Field Blank	Trip Blank	TMW16 -GW-2
				SAMPLE RESULTS	
		ug/l	***ug/l***	***ug/l***	***ug/l***
Bromochloromethane	74-97-5	0.5	<0.5	<0.5	<0.5
1,1-Dichloropropene	563-58-6	0.5	<0.5	<0.5	<0.5
Dibromomethane	74-95-3	0.5	<0.5	<0.5	<0.5
1,2-Dibromoethane	106-93-4	0.5	<0.5	<0.5	<0.5
1,3-Dichloropropane	142-28-9	0.5	<0.5	<0.5	<0.5
Isopropylbenzene	98-82-8	0.5	<0.5	<0.5	<0.5
1,1,2,2-Tetrachloroethane	79-34-5	0.5	<0.5	<0.5	<0.5
1,2,3-Trichloropropane	96-18-4	0.5	<0.5	<0.5	<0.5
Bromobenzene	108-86-1	0.5	<0.5	<0.5	<0.5
n-Propylbenzene	103-65-1	0.5	<0.5	<0.5	<0.5
2-Chlorotoluene	95-49-8	0.5	<0.5	<0.5	<0.5
1,3,5-Trimethylbenzene	108-67-8	0.5	<0.5	<0.5	<0.5
4-Chlorotoluene	106-43-4	0.5	<0.5	<0.5	<0.5
tert-Butylbenzene	98-06-6	0.5	<0.5	<0.5	<0.5
1,2,4-Trimethylbenzene	95-63-6	0.5	<0.5	<0.5	<0.5
sec-Butylbenzene	135-98-8	0.5	<0.5	<0.5	<0.5
4-Isopropyltoluene	99-87-6	0.5	<0.5	<0.5	<0.5
1,3-Dichlorobenzene	541-73-1	0.5	<0.5	<0.5	<0.5
1,4-Dichlorobenzene	106-46-7	0.5	<0.5	<0.5	<0.5
n-Butylbenzene	104-51-8	0.5	<0.5	<0.5	<0.5
1,2-Dichlorobenzene	95-50-1	0.5	<0.5	<0.5	<0.5
1-2-Dibromo-3-CPA	96-12-8	1.0	<1.0	<1.0	<1.0
1,2,4-Trichlorobenzene	120-82-1	0.5	<0.5	<0.5	<0.5
Hexachlorobutadiene	87-68-3	0.5	<0.5	<0.5	<0.5
Naphthalene	91-20-3	0.5	<0.5	<0.5	<0.5
1,2,3-Trichlorobenzene	87-61-6	0.5	<0.5	<0.5	<0.5

SURROGATE RECOVERY	%RC	%RC	%RC
Dibromofluoromethane	91	92	95
Toluene-d8	94	95	94
4-Bromofluorobenzene	98	96	96

INT-m.n.

Orange Coast Analytical, Inc

Kennedy Jenks Consultants
ATTN: Mr. Rus Purcell
2151 Michelson Dr. Suite 100
Irvine, CA 92612

Client Project ID: Boeing C-6
Client Project #: 994001.00

SAMPLE DESCRIPTION (Water)

Laboratory Reference #: KJC 11021

Sampled:	---	07/16/99	07/16/99	07/16/99
Received:	---	07/16/99	07/16/99	07/16/99
Analyzed:	07/20/99	07/20/99	07/20/99	07/20/99
Reported:	07/22/99	07/22/99	07/22/99	07/22/99
Lab Sample I.D.	MB	99070257	99070258	99070259
Client Sample I.D.	---	WCC3D -GW-2	WCC3D -GW-2-D	WCC3S -GW-2

SEMI VOLATILE ORGANICS BY GC/MS (EPA 8270)

ANALYTE	***CAS NUMBER***	***DETECTION LIMIT***	***SAMPLE RESULTS***			
		µg/l	***µg/l***	***µg/l***	***µg/l***	***µg/l***
Acenaphthene	83-32-9	5.0	<5.0	<5.0	<5.0	<5.0
Acenaphthylene	208-96-8	5.0	<5.0	<5.0	<5.0	<5.0
Aniline	62-53-3	5.0	<5.0	<5.0	<5.0	<5.0
Anthracene	120-12-7	5.0	<5.0	<5.0	<5.0	<5.0
Benzoic acid	65-85-0	50	<50	<50	<50	<50
Benzo (a) anthracene	56-55-3	5.0	<5.0	<5.0	<5.0	<5.0
Benzo (b) fluoranthene	205-99-2	25	<25	<25	<25	<25
Benzo (k) fluoranthene	207-08-9	25	<25	<25	<25	<25
Benzo (g,h,i) perylene	191-24-2	25	<25	<25	<25	<25
Benzo (a) pyrene	50-32-8	25	<25	<25	<25	<25
Benzyl alcohol	100-51-6	5.0	<5.0	<5.0	<5.0	<5.0
bis-(2-chloroethoxy) methane	111-91-1	5.0	<5.0	<5.0	<5.0	<5.0
bis-(2-chloroethyl) ether	111-44-4	5.0	<5.0	<5.0	<5.0	<5.0
bis-(2-chloroisopropyl) ether	108-60-1	5.0	<5.0	<5.0	<5.0	<5.0
bis-(2-ethylhexyl) phthalate	117-81-7	3.0	<3.0	<3.0	<3.0	<3.0
4-Bromophenyl phenyl ether	101-55-3	5.0	<5.0	<5.0	<5.0	<5.0
Butyl benzyl phthalate	85-68-7	5.0	<5.0	<5.0	<5.0	<5.0
4-Chloroaniline	106-47-8	5.0	<5.0	<5.0	<5.0	<5.0
2-Chloronaphthalene	91-58-7	5.0	<5.0	<5.0	<5.0	<5.0
4-Chloro-3-methylphenol	59-50-7	5.0	<5.0	<5.0	<5.0	<5.0
2-Chlorophenol	95-57-8	5.0	<5.0	<5.0	<5.0	<5.0
4-Chlorophenyl phenyl ether	7005-72-3	5.0	<5.0	<5.0	<5.0	<5.0
Chrysene	218-01-9	5.0	<5.0	<5.0	<5.0	<5.0
Dibenz (a,h) anthracene	53-70-3	25	<25	<25	<25	<25
Dibenzofuran	132-64-9	5.0	<5.0	<5.0	<5.0	<5.0
Di-n-butyl phthalate	84-74-2	5.0	<5.0	<5.0	<5.0	<5.0
1,3-Dichlorobenzene	541-73-1	5.0	<5.0	<5.0	<5.0	<5.0
1,4-Dichlorobenzene	106-46-7	5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichlorobenzene	95-50-1	5.0	<5.0	<5.0	<5.0	<5.0
3,3-Dichlorobenzidine	91-94-1	5.0	<5.0	<5.0	<5.0	<5.0
2,4-Dichlorophenol	120-83-2	5.0	<5.0	<5.0	<5.0	<5.0
Diethyl phthalate	84-66-2	5.0	<5.0	<5.0	<5.0	<5.0
2,4-Dimethylphenol	105-67-9	5.0	<5.0	<5.0	<5.0	<5.0
Dimethyl phthalate	131-11-3	5.0	<5.0	<5.0	<5.0	<5.0
4,6-Dinitro-2-methylphenol	534-52-1	50	<50	<50	<50	<50

INT-

Orange Coast Analytical, Inc

SEMI-VOLATILE ORGANICS BY GC/MS (EPA 8270) (continued)

Laboratory Reference #: KJC 11021

Client Project ID: Boeing C-6

Client Project #: 994001

Sampled:	---	07/16/99	07/16/99	07/16/99
Received:	---	07/16/99	07/16/99	07/16/99
Analyzed:	07/20/99	07/20/99	07/20/99	07/20/99
Reported:	07/22/99	07/22/99	07/22/99	07/22/99
Lab Sample I.D.	MB	99070257	99070258	99070259
Client Sample I.D.	---	WCC3D -GW-2	WCC3D -GW-2-D	WCC3S -GW-2

ANALYTE (CONT)	***CAS NUMBER***	***DETECTION LIMIT***	***SAMPLE RESULTS***			
		ug/l	***ug/l***	***ug/l***	***ug/l***	***ug/l***
2,4-Dinitrophenol	51-28-5	50	<50	<50	<50	<50
2,4-Dinitrotoluene	121-14-2	5.0	<5.0	<5.0	<5.0	<5.0
2,6-Dinitrotoluene	606-20-2	5.0	<5.0	<5.0	<5.0	<5.0
Di-n-octyl phthalate	117-84-0	25	<25	<25	<25	<25
Fluoranthene	206-44-0	5.0	<5.0	<5.0	<5.0	<5.0
Fluorene	86-73-7	5.0	<5.0	<5.0	<5.0	<5.0
Hexachlorobenzene	118-74-1	5.0	<5.0	<5.0	<5.0	<5.0
Hexachlorobutadiene	87-68-3	5.0	<5.0	<5.0	<5.0	<5.0
Hexachlorocyclopentadiene	77-47-4	5.0	<5.0	<5.0	<5.0	<5.0
Hexachloroethane	67-72-1	5.0	<5.0	<5.0	<5.0	<5.0
Indeno (1,2,3-cd) pyrene	193-39-5	25	<25	<25	<25	<25
Isophorone	78-59-1	5.0	<5.0	<5.0	<5.0	<5.0
2-Methylnaphthalene	91-57-6	5.0	<5.0	<5.0	<5.0	<5.0
2-Methylphenol	95-48-7	5.0	<5.0	<5.0	<5.0	<5.0
4-Methylphenol	106-44-5	5.0	<5.0	<5.0	<5.0	<5.0
Naphthalene	91-20-3	5.0	<5.0	<5.0	<5.0	<5.0
2-Nitroaniline	88-74-4	50	<50	<50	<50	<50
3-Nitroaniline	99-09-2	50	<50	<50	<50	<50
4-Nitroaniline	100-01-6	50	<50	<50	<50	<50
Nitrobenzene	98-95-3	5.0	<5.0	<5.0	<5.0	<5.0
2-Nitrophenol	88-75-5	5.0	<5.0	<5.0	<5.0	<5.0
4-Nitrophenol	100-02-7	50	<50	<50	<50	<50
n-Nitrosodiphenylamine	86-30-6	5.0	<5.0	<5.0	<5.0	<5.0
n-Nitrosodipropylamine	621-64-7	5.0	<5.0	<5.0	<5.0	<5.0
n-Nitrosodimethylamine	62-75-9	5.0	<5.0	<5.0	<5.0	<5.0
Pentachlorophenol	87-86-5	50	<50	<50	<50	<50
Phenanthrene	85-01-8	5.0	<5.0	<5.0	<5.0	<5.0
Phenol	108-95-2	5.0	<5.0	<5.0	<5.0	6.9
Pyrene	129-00-0	5.0	<5.0	<5.0	<5.0	<5.0
1,2,4-Trichlorobenzene	120-82-1	5.0	<5.0	<5.0	<5.0	<5.0
2,4,5-trichlorophenol	95-95-4	5.0	<5.0	<5.0	<5.0	<5.0
2,4,6-Trichlorophenol	88-06-2	5.0	<5.0	<5.0	<5.0	<5.0

Kennedy Jenks Consultants
ATTN: Mr. Rus Purcell
2151 Michelson Dr. Suite 100
Irvine, CA 92612

Client Project ID: Boeing C-6
Client Project #: 994001.00

SAMPLE DESCRIPTION (Water)

Laboratory Reference #: KJC 11021

Sampled:	07/16/99	07/16/99	07/16/99	07/16/99
Received:	07/16/99	07/16/99	07/16/99	07/16/99
Analyzed:	07/20/99	07/20/99	07/20/99	07/20/99
Reported:	07/22/99	07/22/99	07/22/99	07/22/99
Lab Sample I.D.	99070260	99070261	99070262	99070263
Client Sample I.D.	WCC6S -GW-2	TMW2- -GW-2	Rinsate Blank	DACP1 -GW-2

SEMI VOLATILE ORGANICS BY GC/MS (EPA 8270)

ANALYTE	***CAS NUMBER***	***DETECTION LIMIT***	***SAMPLE RESULTS***			
		µg/l	***µg/l***	***µg/l***	***µg/l***	***µg/l***
Acenaphthene	83-32-9	5.0	<5.0	<5.0	<5.0	<5.0
Acenaphthylene	208-96-8	5.0	<5.0	<5.0	<5.0	<5.0
Aniline	62-53-3	5.0	<5.0	<5.0	<5.0	<5.0
Anthracene	120-12-7	5.0	<5.0	<5.0	<5.0	<5.0
Benzoic acid	65-85-0	50	<50	<50	<50	<50
Benzo (a) anthracene	56-55-3	5.0	<5.0	<5.0	<5.0	<5.0
Benzo (b) fluoranthene	205-99-2	25	<25	<25	<25	<25
Benzo (k) fluoranthene	207-08-9	25	<25	<25	<25	<25
Benzo (g,h,i) perylene	191-24-2	25	<25	<25	<25	<25
Benzo (a) pyrene	50-32-8	25	<25	<25	<25	<25
Benzyl alcohol	100-51-6	5.0	<5.0	<5.0	<5.0	<5.0
bis-(2-chloroethoxy) methane	111-91-1	5.0	<5.0	<5.0	<5.0	<5.0
bis-(2-chloroethyl) ether	111-44-4	5.0	<5.0	<5.0	<5.0	<5.0
bis-(2-chloroisopropyl) ether	108-60-1	5.0	<5.0	<5.0	<5.0	<5.0
bis-(2-ethylhexyl) phthalate	117-81-7	3.0	<3.0	<3.0	<3.0	<3.0
4-Bromophenyl phenyl ether	101-55-3	5.0	<5.0	<5.0	<5.0	<5.0
Butyl benzyl phthalate	85-68-7	5.0	<5.0	<5.0	<5.0	<5.0
4-Chloroaniline	106-47-8	5.0	<5.0	<5.0	<5.0	<5.0
2-Chloronaphthalene	91-58-7	5.0	<5.0	<5.0	<5.0	<5.0
4-Chloro-3-methylphenol	59-50-7	5.0	<5.0	<5.0	<5.0	<5.0
2-Chlorophenol	95-57-8	5.0	<5.0	<5.0	<5.0	<5.0
4-Chlorophenyl phenyl ether	7005-72-3	5.0	<5.0	<5.0	<5.0	<5.0
Chrysene	218-01-9	5.0	<5.0	<5.0	<5.0	<5.0
Dibenz (a,h) anthracene	53-70-3	25	<25	<25	<25	<25
Dibenzofuran	132-64-9	5.0	<5.0	<5.0	<5.0	<5.0
Di-n-butyl phthalate	84-74-2	5.0	<5.0	<5.0	<5.0	<5.0
1,3-Dichlorobenzene	541-73-1	5.0	<5.0	<5.0	<5.0	<5.0
1,4-Dichlorobenzene	106-46-7	5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichlorobenzene	95-50-1	5.0	<5.0	<5.0	<5.0	<5.0
3,3-Dichlorobenzidine	91-94-1	5.0	<5.0	<5.0	<5.0	<5.0
2,4-Dichlorophenol	120-83-2	5.0	<5.0	<5.0	<5.0	<5.0
Diethyl phthalate	84-66-2	5.0	<5.0	<5.0	<5.0	<5.0
2,4-Dimethylphenol	105-67-9	5.0	<5.0	<5.0	<5.0	<5.0
Dimethyl phthalate	131-11-3	5.0	<5.0	<5.0	<5.0	<5.0
4,6-Dinitro-2-methylphenol	534-52-1	50	<50	<50	<50	<50

SEMI-VOLATILE ORGANICS BY GC/MS (EPA 8270) (continued)

Laboratory Reference #: KJC 11021

Client Project ID: Boeing C-6
Client Project #: 994001

Sampled:	07/16/99	07/16/99	07/16/99	07/16/99
Received:	07/16/99	07/16/99	07/16/99	07/16/99
Analyzed:	07/20/99	07/20/99	07/20/99	07/20/99
Reported:	07/22/99	07/22/99	07/22/99	07/22/99
Lab Sample I.D.	99070260	99070261	99070262	99070263
Client Sample I.D.	WCC6S -GW-2	TMW2- -GW-2	Rinsate Blank	DACP1 -GW-2

ANALYTE (CONT)	***CAS NUMBER***	***DETECTION LIMIT***	***SAMPLE RESULTS***			
		ug/l	***ug/l***	***ug/l***	***ug/l***	***ug/l***
2,4-Dinitrophenol	51-28-5	50	<50	<50	<50	<50
2,4-Dinitrotoluene	121-14-2	5.0	<5.0	<5.0	<5.0	<5.0
2,6-Dinitrotoluene	606-20-2	5.0	<5.0	<5.0	<5.0	<5.0
Di-n-octyl phthalate	117-84-0	25	<25	<25	<25	<25
Fluoranthene	206-44-0	5.0	<5.0	<5.0	<5.0	<5.0
Fluorene	86-73-7	5.0	<5.0	<5.0	<5.0	<5.0
Hexachlorobenzene	118-74-1	5.0	<5.0	<5.0	<5.0	<5.0
Hexachlorobutadiene	87-68-3	5.0	<5.0	<5.0	<5.0	<5.0
Hexachlorocyclopentadiene	77-47-4	5.0	<5.0	<5.0	<5.0	<5.0
Hexachloroethane	67-72-1	5.0	<5.0	<5.0	<5.0	<5.0
Indeno (1,2,3-cd) pyrene	193-39-5	25	<25	<25	<25	<25
Isophorone	78-59-1	5.0	<5.0	<5.0	<5.0	<5.0
2-Methylnaphthalene	91-57-6	5.0	<5.0	<5.0	<5.0	<5.0
2-Methylphenol	95-48-7	5.0	<5.0	<5.0	<5.0	<5.0
4-Methylphenol	106-44-5	5.0	<5.0	<5.0	<5.0	<5.0
Naphthalene	91-20-3	5.0	<5.0	<5.0	<5.0	<5.0
2-Nitroaniline	88-74-4	50	<50	<50	<50	<50
3-Nitroaniline	99-09-2	50	<50	<50	<50	<50
4-Nitroaniline	100-01-6	50	<50	<50	<50	<50
Nitrobenzene	98-95-3	5.0	<5.0	<5.0	<5.0	<5.0
2-Nitrophenol	88-75-5	5.0	<5.0	<5.0	<5.0	<5.0
4-Nitrophenol	100-02-7	50	<50	<50	<50	<50
n-Nitrosodiphenylamine	86-30-6	5.0	<5.0	<5.0	<5.0	<5.0
n-Nitrosodipropylamine	621-64-7	5.0	<5.0	<5.0	<5.0	<5.0
n-Nitrosodimethylamine	62-75-9	5.0	<5.0	<5.0	<5.0	<5.0
Pentachlorophenol	87-86-5	50	<50	<50	<50	<50
Phenanthrene	85-01-8	5.0	<5.0	<5.0	<5.0	<5.0
Phenol	108-95-2	5.0	<5.0	<5.0	<5.0	<5.0
Pyrene	129-00-0	5.0	<5.0	<5.0	<5.0	<5.0
1,2,4-Trichlorobenzene	120-82-1	5.0	<5.0	<5.0	<5.0	<5.0
2,4,5-trichlorophenol	95-95-4	5.0	<5.0	<5.0	<5.0	<5.0
2,4,6-Trichlorophenol	88-06-2	5.0	<5.0	<5.0	<5.0	<5.0

Kennedy Jenks Consultants
ATTN: Mr. Rus Purcell
2151 Michelson Dr. Suite 100
Irvine, CA 92612

Client Project ID: Boeing C-6
Client Project #: 994001.00

SAMPLE DESCRIPTION (Water)

Laboratory Reference #: KJC 11021

Sampled:	07/16/99	07/16/99
Received:	07/16/99	07/16/99
Analyzed:	07/20/99	07/20/99
Reported:	07/22/99	07/22/99
Lab Sample I.D.	99070264	99070266
Client Sample I.D.	Field Blank	TMW16 -GW-2

SEMI VOLATILE ORGANICS BY GC/MS (EPA 8270)

ANALYTE	***CAS NUMBER***	***DETECTION LIMIT µg/l***		***SAMPLE RESULTS µg/l***
			µg/l	
Acenaphthene	83-32-9	5.0	<5.0	<5.0
Acenaphthylene	208-96-8	5.0	<5.0	<5.0
Aniline	62-53-3	5.0	<5.0	<5.0
Anthracene	120-12-7	5.0	<5.0	<5.0
Benzoic acid	65-85-0	50	<50	<50
Benzo (a) anthracene	56-55-3	5.0	<5.0	<5.0
Benzo (b) fluoranthene	205-99-2	25	<25	<25
Benzo (k) fluoranthene	207-08-9	25	<25	<25
Benzo (g,h,i) perylene	191-24-2	25	<25	<25
Benzo (a) pyrene	50-32-8	25	<25	<25
Benzyl alcohol	100-51-6	5.0	<5.0	<5.0
bis-(2-chloroethoxy) methane	111-91-1	5.0	<5.0	<5.0
bis-(2-chloroethyl) ether	111-44-4	5.0	<5.0	<5.0
bis-(2-chloroisopropyl) ether	108-60-1	5.0	<5.0	<5.0
bis-(2-ethylhexyl) phthalate	117-81-7	3.0	<3.0	<3.0
4-Bromophenyl phenyl ether	101-55-3	5.0	<5.0	<5.0
Butyl benzyl phthalate	85-68-7	5.0	<5.0	<5.0
4-Chloroaniline	106-47-8	5.0	<5.0	<5.0
2-Chloronaphthalene	91-58-7	5.0	<5.0	<5.0
4-Chloro-3-methylphenol	59-50-7	5.0	<5.0	<5.0
2-Chlorophenol	95-57-8	5.0	<5.0	<5.0
4-Chlorophenyl phenyl ether	7005-72-3	5.0	<5.0	<5.0
Chrysene	218-01-9	5.0	<5.0	<5.0
Dibenz (a,h) anthracene	53-70-3	25	<25	<25
Dibenzofuran	132-64-9	5.0	<5.0	<5.0
Di-n-butyl phthalate	84-74-2	5.0	<5.0	<5.0
1,3-Dichlorobenzene	541-73-1	5.0	<5.0	<5.0
1,4-Dichlorobenzene	106-46-7	5.0	<5.0	<5.0
1,2-Dichlorobenzene	95-50-1	5.0	<5.0	<5.0
3,3-Dichlorobenzidine	91-94-1	5.0	<5.0	<5.0
2,4-Dichlorophenol	120-83-2	5.0	<5.0	<5.0
Diethyl phthalate	84-66-2	5.0	<5.0	<5.0
2,4-Dimethylphenol	105-67-9	5.0	<5.0	<5.0
Dimethyl phthalate	131-11-3	5.0	<5.0	<5.0
4,6-Dinitro-2-methylphenol	534-52-1	50	<50	<50

SEMI-VOLATILE ORGANICS BY GC/MS (EPA 8270) (continued)

Laboratory Reference #: KJC 11021

Client Project ID: Boeing C-6
Client Project #: 994001

Sampled:	07/16/99	07/16/99
Received:	07/16/99	07/16/99
Analyzed:	07/20/99	07/20/99
Reported:	07/22/99	07/22/99
Lab Sample I.D.	99070264	99070266
Client Sample I.D.	Field Blank	TMW16 -GW-2

ANALYTE (CONT)	***CAS NUMBER***	***DETECTION LIMIT ug/l***		***SAMPLE RESULTS ug/l***
2,4-Dinitrophenol	51-28-5	50	<50	<50
2,4-Dinitrotoluene	121-14-2	5.0	<5.0	<5.0
2,6-Dinitrotoluene	606-20-2	5.0	<5.0	<5.0
Di-n-octyl phthalate	117-84-0	25	<25	<25
Fluoranthene	206-44-0	5.0	<5.0	<5.0
Fluorene	86-73-7	5.0	<5.0	<5.0
Hexachlorobenzene	118-74-1	5.0	<5.0	<5.0
Hexachlorobutadiene	87-68-3	5.0	<5.0	<5.0
Hexachlorocyclopentadiene	77-47-4	5.0	<5.0	<5.0
Hexachloroethane	67-72-1	5.0	<5.0	<5.0
Indeno (1,2,3-cd) pyrene	193-39-5	25	<25	<25
Isophorone	78-59-1	5.0	<5.0	<5.0
2-Methylnaphthalene	91-57-6	5.0	<5.0	<5.0
2-Methylphenol	95-48-7	5.0	<5.0	<5.0
4-Methylphenol	106-44-5	5.0	<5.0	<5.0
Naphthalene	91-20-3	5.0	<5.0	<5.0
2-Nitroaniline	88-74-4	50	<50	<50
3-Nitroaniline	99-09-2	50	<50	<50
4-Nitroaniline	100-01-6	50	<50	<50
Nitrobenzene	98-95-3	5.0	<5.0	<5.0
2-Nitrophenol	88-75-5	5.0	<5.0	<5.0
4-Nitrophenol	100-02-7	50	<50	<50
n-Nitrosodiphenylamine	86-30-6	5.0	<5.0	<5.0
n-Nitrosodipropylamine	621-64-7	5.0	<5.0	<5.0
n-Nitrosodimethylamine	62-75-9	5.0	<5.0	<5.0
Pentachlorophenol	87-86-5	50	<50	<50
Phenanthrene	85-01-8	5.0	<5.0	<5.0
Phenol	108-95-2	5.0	<5.0	<5.0
Pyrene	129-00-0	5.0	<5.0	<5.0
1,2,4-Trichlorobenzene	120-82-1	5.0	<5.0	<5.0
2,4,5-trichlorophenol	95-95-4	5.0	<5.0	<5.0
2,4,6-Trichlorophenol	88-06-2	5.0	<5.0	<5.0

Kennedy Jenks Consultants
ATTN: Mr. Rus Purcell
2151 Michelson Dr. Suite 100
Irvine, CA 92612

Client Project ID: Boeing C-6
Client Project #: 994001.00

Sample Description: Water,

Laboratory Reference #: KJC 11021

Sampled: 07/16/99
Received: 07/16/99
Analyzed: 07/20/99
Reported: 07/22/99

VOLATILE FUEL HYDROCARBONS (EPA 8015m)

LABORATORY SAMPLE NUMBER	***CLIENT SAMPLE NUMBER***	***SAMPLE RESULTS µg/l***
99070257	WCC3D-GW-2	N.D.
99070258	WCC3D-GW-2-D	N.D.
99070259	WCC3S-GW-2	130,000
99070260	WCC6S-GW-2	2,900
99070261	TMW2-GW-2	11,000
99070262	Rinsate Blank-1	N.D.
99070263	DACP1-GW-2	4,700
99070264	Field Blank-1	N.D.
99070266	TMW16-GW-2	N.D.
Detection Limit:		50

Volatile Fuel Hydrocarbons are quantitated against a gasoline standard. Hydrocarbons detected by this method range from C6 to C14. Analyte reported as N.D. was not present above the stated limit of detections.

INT m.n.

Orange Coast Analytical, Inc.

Kennedy Jenks Consultants
ATTN: Mr. Rus Purcell
2151 Michelson Dr. Suite 100
Irvine, CA 92612

Client Project ID: Boeing C-6
Client Project #: 994001.00

Sample Description: Water,

Laboratory Reference #: KJC 11021

Sampled: 07/16/99
Received: 07/16/99
Analyzed: 07/21/99
Reported: 07/22/99

DIESEL (EPA 8015m)

LABORATORY SAMPLE NUMBER	***CLIENT SAMPLE NUMBER***	***SAMPLE RESULTS mg/l***
99070257	WCC3D-GW-2	N.D.
99070258	WCC3D-GW-2-D	N.D.
99070259	WCC3S-GW-2	N.D.
99070260	WCC6S-GW-2	N.D.
99070261	TMW2-GW-2	N.D.
99070262	Rinsate Blank-1	N.D.
99070263	DACP1-GW-2	N.D.
99070264	Field Blank-1	N.D.
99070266	TMW16-GW-2	N.D.

Detection Limit:	0.5

Analyte reported as N.D. was not present above the stated limit of detection.

INT m.n.

Orange Coast Analytical, Inc.

Kennedy Jenks Consultants
ATTN: Mr. Rus Purcell
2151 Michelson Dr. Suite 100
Irvine, CA 92612

Client Project ID: Boeing C-6
Client Project #: 994001.00

SAMPLE DESCRIPTION (Water)

Laboratory Reference #: KJC 11021

Sampled:	07/16/99	07/16/99	07/16/99	07/16/99
Received:	07/16/99	07/16/99	07/16/99	07/16/99
Analyzed:	07/21/99	07/21/99	07/21/99	07/21/99
Reported:	07/22/99	07/22/99	07/22/99	07/22/99
Lab Sample I.D.	MB	99070257	99070258	99070259
Client Sample I.D.	---	WCC3D -GW-2	WCC3D -GW-2-D	WCC3S -GW-2

ORGANOCHLORINATED PESTICIDES (EPA 8081)

ANALYTE	***CAS NUMBER***	***DETECTION LIMIT µg/l***	***SAMPLE RESULTS µg/l***	***µg/l***	***µg/l***	***µg/l***
Aldrin	309-00-2	0.1	<0.1	<0.1	<0.1	<0.1
alpha-BHC	319-84-6	0.2	<0.2	<0.2	<0.2	<0.2
beta-BHC	319-85-7	0.2	<0.2	<0.2	<0.2	<0.2
delta-BHC	319-86-8	0.2	<0.2	<0.2	<0.2	<0.2
gamma-BHC (Lindane)	58-89-9	0.2	<0.2	<0.2	<0.2	<0.2
Chlordane	57-74-9	0.2	<0.2	<0.2	<0.2	<0.2
4,4'-DDD	72-54-8	0.5	<0.5	<0.5	<0.5	<0.5
4,4'-DDE	72-55-9	0.1	<0.1	<0.1	<0.1	<0.1
4,4'-DDT	50-29-3	0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	60-57-1	0.5	<0.5	<0.5	<0.5	<0.5
Endosulfan I	959-98-8	0.5	<0.5	<0.5	<0.5	<0.5
Endosulfan II	33212-65-9	0.5	<0.5	<0.5	<0.5	<0.5
Endosulfan sulfate	1031-07-8	0.5	<0.5	<0.5	<0.5	<0.5
Endrin	72-20-8	0.02	<0.02	<0.02	<0.02	<0.02
Endrin aldehyde	7421-93-4	0.2	<0.2	<0.2	<0.2	<0.2
Heptachlor	76-44-8	0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor epoxide	1024-57-3	0.2	<0.2	<0.2	<0.2	<0.2
Methoxychlor	72-43-5	9.0	<9.0	<9.0	<9.0	<9.0
Toxaphene	8001-35-2	0.5	<0.5	<0.5	<0.5	<0.5

INT-

Orange Coast Analytical, Inc

Kennedy Jenks Consultants
ATTN: Mr. Rus Purcell
2151 Michelson Dr. Suite 100
Irvine, CA 92612

Client Project ID: Boeing C-6
Client Project #: 994001.00

SAMPLE DESCRIPTION (Water)

Laboratory Reference #: KJC 11021

Sampled:	07/16/99	07/16/99
Received:	07/16/99	07/16/99
Analyzed:	07/21/99	07/21/99
Reported:	07/22/99	07/22/99
Lab Sample I.D.	99070264	99070266
Client Sample I.D.	Field Blank	TMW16 -GW-2

ORGANOCHLORINATED PESTICIDES (EPA 8081)

ANALYTE	***CAS NUMBER***	***DETECTION LIMIT µg/l***	***SAMPLE RESULTS µg/l***	***µg/l***
Aldrin	309-00-2	0.1	<0.1	<0.1
alpha-BHC	319-84-6	0.2	<0.2	<0.2
beta-BHC	319-85-7	0.2	<0.2	<0.2
delta-BHC	319-86-8	0.2	<0.2	<0.2
gamma-BHC (Lindane)	58-89-9	0.2	<0.2	<0.2
Chlordane	57-74-9	0.2	<0.2	<0.2
4,4'-DDD	72-54-8	0.5	<0.5	<0.5
4,4'-DDE	72-55-9	0.1	<0.1	<0.1
4,4'-DDT	50-29-3	0.1	<0.1	<0.1
Dieldrin	60-57-1	0.5	<0.5	<0.5
Endosulfan I	959-98-8	0.5	<0.5	<0.5
Endosulfan II	33212-65-9	0.5	<0.5	<0.5
Endosulfan sulfate	1031-07-8	0.5	<0.5	<0.5
Endrin	72-20-8	0.02	<0.02	<0.02
Endrin aldehyde	7421-93-4	0.2	<0.2	<0.2
Heptachlor	76-44-8	0.1	<0.1	<0.1
Heptachlor epoxide	1024-57-3	0.2	<0.2	<0.2
Methoxychlor	72-43-5	9.0	<9.0	<9.0
Toxaphene	8001-35-2	0.5	<0.5	<0.5

Kennedy Jenks Consultants
ATTN: Mr. Rus Purcell
2151 Michelson Dr. Suite 100
Irvine, CA 92612

Client Project ID: Boeing C-6
Client Project #: 994001.00

SAMPLE DESCRIPTION (Water)

Laboratory Reference #: KJC 11021

Sampled:	07/16/99	07/16/99	07/16/99	07/16/99
Received:	07/16/99	07/16/99	07/16/99	07/16/99
Analyzed:	07/21/99	07/21/99	07/21/99	07/21/99
Reported:	07/22/99	07/22/99	07/22/99	07/22/99
Lab Sample I.D.	99070260	99070261	99070262	99070263
Client Sample I.D.	WCC6S -GW-2	TMW2- -GW-2	Rinsate Blank	DACP1 -GW-2

ORGANOCHLORINATED PESTICIDES (EPA 8081)

ANALYTE	***CAS NUMBER***	***DETECTION LIMIT µg/l***	***SAMPLE RESULTS µg/l***	***µg/l***	***µg/l***	***µg/l***
Aldrin	309-00-2	0.1	<0.1	<0.1	<0.1	<0.1
alpha-BHC	319-84-6	0.2	<0.2	<0.2	<0.2	<0.2
beta-BHC	319-85-7	0.2	<0.2	<0.2	<0.2	<0.2
delta-BHC	319-86-8	0.2	<0.2	<0.2	<0.2	<0.2
gamma-BHC (Lindane)	58-89-9	0.2	<0.2	<0.2	<0.2	<0.2
Chlordane	57-74-9	0.2	<0.2	<0.2	<0.2	<0.2
4,4'-DDD	72-54-8	0.5	<0.5	<0.5	<0.5	<0.5
4,4'-DDE	72-55-9	0.1	<0.1	<0.1	<0.1	<0.1
4,4'-DDT	50-29-3	0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	60-57-1	0.5	<0.5	<0.5	<0.5	<0.5
Endosulfan I	959-98-8	0.5	<0.5	<0.5	<0.5	<0.5
Endosulfan II	33212-65-9	0.5	<0.5	<0.5	<0.5	<0.5
Endosulfan sulfate	1031-07-8	0.5	<0.5	<0.5	<0.5	<0.5
Endrin	72-20-8	0.02	<0.02	<0.02	<0.02	<0.02
Endrin aldehyde	7421-93-4	0.2	<0.2	<0.2	<0.2	<0.2
Heptachlor	76-44-8	0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor epoxide	1024-57-3	0.2	<0.2	<0.2	<0.2	<0.2
Methoxychlor	72-43-5	9.0	<9.0	<9.0	<9.0	<9.0
Toxaphene	8001-35-2	0.5	<0.5	<0.5	<0.5	<0.5

INT-

Orange Coast Analytical, Inc

Kennedy Jenks Consultants
ATTN: Mr. Rus Purcell
2151 Michelson Dr. Suite 100
Irvine, CA 92612

Client Project ID: Boeing C-6
Client Project #: 994001.00

SAMPLE DESCRIPTION (Water)

Laboratory Reference #: KJC 11021

Sampled:	---	07/16/99	07/16/99	07/16/99
Received:	---	07/16/99	07/16/99	07/16/99
Reported:	07/22/99	07/22/99	07/22/99	07/22/99
Lab Sample I.D.	MB	99070257	99070258	99070259
Client Sample I.D.	---	WCC3D -GW-2	WCC3D -GW-2-D	WCC3S -GW-2

CCR METALS

ANALYTE	***DATE TESTED***	***EPA METHOD***	***DETECTION LIMIT mg/l***	***SAMPLE RESULTS***			
				mg/l	***mg/l***	***mg/l***	***mg/l***
Antimony	07/20/99	6010	0.1	<0.1	<0.1	<0.1	<0.1
Arsenic	07/20/99	6010	0.1	<0.1	<0.1	<0.1	<0.1
Barium	07/20/99	6010	0.01	<0.01	0.093	0.094	0.26
Beryllium	07/20/99	6010	0.01	<0.01	<0.01	<0.01	<0.01
Cadmium	07/20/99	6010	0.01	<0.01	<0.01	<0.01	<0.01
Chromium (VI)	07/16/99	7196	0.01	<0.01	<0.01	<0.01	<0.01
Chromium (Total)	07/20/99	6010	0.01	<0.01	<0.01	<0.01	<0.01
Cobalt	07/20/99	6010	0.01	<0.01	<0.01	<0.01	<0.01
Copper	07/20/99	6010	0.01	<0.01	<0.01	<0.01	<0.01
Lead	07/20/99	6010	0.05	<0.05	<0.05	<0.05	<0.05
Mercury	07/20/99	7471	0.001	<0.001	<0.001	<0.001	<0.001
Molybdenum	07/20/99	6010	0.05	<0.05	<0.05	<0.05	<0.05
Nickel	07/20/99	6010	0.01	<0.01	<0.01	<0.01	<0.01
Selenium	07/20/99	6010	0.1	<0.1	<0.1	<0.1	<0.1
Silver	07/20/99	6010	0.01	<0.01	<0.01	<0.01	<0.01
Thallium	07/20/99	6010	0.1	<0.1	<0.1	<0.1	<0.1
Vanadium	07/20/99	6010	0.01	<0.01	<0.01	<0.01	<0.01
Zinc	07/20/99	6010	0.01	<0.01	0.014	0.014	0.025

Kennedy Jenks Consultants
ATTN: Mr. Rus Purcell
2151 Michelson Dr. Suite 100
Irvine, CA 92612

Client Project ID: Boeing C-6
Client Project #: 994001.00

SAMPLE DESCRIPTION (Water)

Laboratory Reference #: KJC 11021

Sampled:	07/16/99	07/16/99	07/16/99	07/16/99
Received:	07/16/99	07/16/99	07/16/99	07/16/99
Reported:	07/22/99	07/22/99	07/22/99	07/22/99

CCR METALS

ANALYTE	***DATE TESTED***	***EPA METHOD***	***DETECTION LIMIT***	***SAMPLE RESULTS***			
Lab Sample I.D.				99070260	99070261	99070262	99070263
Client Sample I.D.				WCC6S -GW-2	TMW2- -GW-2	Rinsate Blank	DACP1 -GW-2
			mg/l	***mg/l***	***mg/l***	***mg/l***	***mg/l***
Antimony	07/20/99	6010	0.1	<0.1	<0.1	<0.1	<0.1
Arsenic	07/20/99	6010	0.1	<0.1	<0.1	<0.1	<0.1
Barium	07/20/99	6010	0.01	0.14	0.38	<0.01	0.10
Beryllium	07/20/99	6010	0.01	<0.01	<0.01	<0.01	<0.01
Cadmium	07/20/99	6010	0.01	<0.01	<0.01	<0.01	<0.01
Chromium (VI)	07/16/99	7196	0.01	<0.01	0.12	<0.01	0.24
Chromium (Total)	07/20/99	6010	0.01	<0.01	0.12	<0.01	0.29
Cobalt	07/20/99	6010	0.01	<0.01	<0.01	<0.01	<0.01
Copper	07/20/99	6010	0.01	<0.01	<0.01	<0.01	<0.01
Lead	07/20/99	6010	0.05	<0.05	<0.05	<0.05	<0.05
Mercury	07/20/99	7471	0.001	<0.001	<0.001	<0.001	<0.001
Molybdenum	07/20/99	6010	0.05	<0.05	<0.05	<0.05	<0.05
Nickel	07/20/99	6010	0.01	<0.01	<0.01	<0.01	<0.01
Selenium	07/20/99	6010	0.1	<0.1	<0.1	<0.1	<0.1
Silver	07/20/99	6010	0.01	<0.01	<0.01	<0.01	<0.01
Thallium	07/20/99	6010	0.1	<0.1	<0.1	<0.1	<0.1
Vanadium	07/20/99	6010	0.01	<0.01	<0.01	<0.01	<0.01
Zinc	07/20/99	6010	0.01	0.017	0.040	0.014	0.016

Kennedy Jenks Consultants
ATTN: Mr. Rus Purcell
2151 Michelson Dr. Suite 100
Irvine, CA 92612

Client Project ID: Boeing C-6
Client Project #: 994001.00

SAMPLE DESCRIPTION (Water)

Sampled:	07/16/99	07/16/99
Received:	07/16/99	07/16/99
Reported:	07/22/99	07/22/99

Laboratory Reference #: KJC 11021

Lab Sample I.D.	99070264	99070266
Client Sample I.D.	Field Blank	TMW16 -GW-2

CCR METALS

ANALYTE	***DATE TESTED***	***EPA METHOD***	***DETECTION LIMIT mg/l***	***SAMPLE RESULTS***	
				mg/l	***mg/l***
Antimony	07/20/99	6010	0.1	<0.1	<0.1
Arsenic	07/20/99	6010	0.1	<0.1	<0.1
Barium	07/20/99	6010	0.01	<0.01	0.072
Beryllium	07/20/99	6010	0.01	<0.01	<0.01
Cadmium	07/20/99	6010	0.01	<0.01	<0.01
Chromium (VI)	07/16/99	7196	0.01	<0.01	<0.01
Chromium (Total)	07/20/99	6010	0.01	<0.01	0.023
Cobalt	07/20/99	6010	0.01	<0.01	<0.01
Copper	07/20/99	6010	0.01	<0.01	<0.01
Lead	07/20/99	6010	0.05	<0.05	<0.05
Mercury	07/20/99	7471	0.001	<0.001	<0.001
Molybdenum	07/20/99	6010	0.05	<0.05	<0.05
Nickel	07/20/99	6010	0.01	<0.01	0.010
Selenium	07/20/99	6010	0.1	<0.1	<0.1
Silver	07/20/99	6010	0.01	<0.01	<0.01
Thallium	07/20/99	6010	0.1	<0.1	<0.1
Vanadium	07/20/99	6010	0.01	<0.01	<0.01
Zinc	07/20/99	6010	0.01	0.013	0.042

QC DATA REPORT

Analysis : Volatile Organics by GC/MS (EPA 8260)

Date of Analysis : 07/19/99
Laboratory Sample No : 99070266
Laboratory Reference No : KJC 11021

Analyte	R1 (ppb)	SP (ppb)	MS (ppb)	MSD (ppb)	PR1 %	PR2 %	RPD %
Benzene	0.0	20	20	20	100	100	0
1,1-Dichloroethene	0.0	20	21	21	105	105	0
Trichloroethene	2.7	20	22	22	97	97	0
Toluene	0.0	20	19	18	95	90	5
Chlorobenzene	0.0	20	20	19	100	95	5

Definition of Terms :

R1	Results Of First Analysis
SP	Spike Concentration Added to Sample
MS	Matrix Spike Results
MSD	Matrix Spike Duplicate Results
PR1	Percent Recovery Of MS: {(MS-R1) / SP} x100
PR2	Percent Recovery Of MS: {(MSD-R1) / SP} x 100
RPD	Relative Percent Difference: {(MS-MSD) / (MS+MSD)} x 100 x 2

INT M.M.

Orange Coast Analytical, Inc.

QC DATA REPORT

Analysis : Semi-Volatile Organics by GC/MS (EPA 8270)

Date of Analysis : 07/20/99
Laboratory Sample No : OCA 100
Laboratory Reference No : KJC 11021

Analyte	R1 (ng)	SP (ng)	MS (ng)	MSD (ng)	PR1 %	PR2 %	RPD %
1,4-Dichlorobenzene	0.0	50	36	35	72	70	3
n-Nitroso-di-n-propylamine	0.0	50	40	37	80	74	8
1,2,4-Trichlorobenzene	0.0	50	37	38	74	76	3
Acenaphthene	0.0	50	39	37	78	74	5
Pyrene	0.0	50	43	38	86	76	12
Pentachlorophenol	0.0	100	84	81	84	81	4
4-Chloro-3-Methylphenol	0.0	100	72	72	72	72	0
2-Chlorophenol	0.0	100	71	68	71	68	4
Phenol	0.0	100	34	31	34	31	9

Definition of Terms :

R1	Results Of First Analysis
SP	Spike Concentration Added to Sample
MS	Matrix Spike Results
MSD	Matrix Spike Duplicate Results
PR1	Percent Recovery Of MS: {(MS-R1) / SP} x100
PR2	Percent Recovery Of MSD: {(MSD-R1) / SP} x 100
RPD	Relative Percent Difference: {(MS-MSD) / (MS+MSD)} x 100 x 2

INT_____.

Orange Coast Analytical, Inc.

QC DATA REPORT

Analysis : Semi-Volatile Organics by GC/MS (EPA 8270)

Date of Analysis : 07/20/99
Laboratory Sample No : OCA 100
Laboratory Reference No : KJC 11021

Analyte	R1 (ng)	SP (ng)	MS (ng)	MSD (ng)	PR1 %	PR2 %	RPD %
1,4-Dichlorobenzene	0.0	50	34	35	68	70	3
n-Nitroso-di-n-propylamine	0.0	50	39	41	78	82	5
1,2,4-Trichlorobenzene	0.0	50	34	36	68	72	6
Acenaphthene	0.0	50	41	43	82	86	5
Pyrene	0.0	50	44	45	88	90	2
Pentachlorophenol	0.0	100	76	81	76	81	6
4-Chloro-3-Methylphenol	0.0	100	71	63	71	63	12
2-Chlorophenol	0.0	100	75	77	75	77	3
Phenol	0.0	100	30	28	30	28	7

Definition of Terms :

R1	Results Of First Analysis
SP	Spike Concentration Added to Sample
MS	Matrix Spike Results
MSD	Matrix Spike Duplicate Results
PR1	Percent Recovery Of MS: {(MS-R1) / SP} x100
PR2	Percent Recovery Of MSD: {(MSD-R1) / SP} x 100
RPD	Relative Percent Difference: {(MS-MSD) / (MS+MSD)} x 100 x 2

INT m.n.

Orange Coast Analytical, Inc.

QC DATA REPORT

Analysis : Diesel (EPA 8015m)

Date of Analysis : 07/21/99
Laboratory Sample No : OCA 100
Laboratory Reference No : KJC 11021

Analyte	R1 (ppm)	SP (ppm)	MS (ppm)	MSD (ppm)	PR1 %	PR2 %	RPD %
Diesel	0.0	5.0	5.8	5.4	116	108	7

Definition of Terms :

R1	Results Of First Analysis
SP	Spike Concentration Added to Sample
MS	Matrix Spike Results
MSD	Matrix Spike Duplicate Results
PR1	Percent Recovery Of MS: {(MS-R1) / SP} x100
PR2	Percent Recovery Of MSD: {(MSD-R1) / SP} x 100
RPD	Relative Percent Difference: {(MS-MSD) / (MS+MSD)} x 100 x 2

INT m.n.

Orange Coast Analytical, Inc.

QC DATA REPORT

Analysis : Volatile Fuel Hydrocarbons

Date of Analysis : 07/20/99
Laboratory Sample No : 99070241
Laboratory Reference No : KJC 11021

Analyte	R1 (ppb)	SP (ppb)	MS (ppb)	MSD (ppb)	PR1 %	PR2 %	RPD %
Hydrocarbons	0.0	250	246	234	98	94	5

Definition of Terms :

R1	Results Of First Analysis
SP	Spike Concentration Added to Sample
MS	Matrix Spike Results
MSD	Matrix Spike Duplicate Results
PR1	Percent Recovery Of MS: {(MS-R1) / SP} x100
PR2	Percent Recovery Of MSD: {(MSD-R1) / SP} x 100
RPD	Relative Percent Difference: {(MS-MSD) / (MS+MSD)} x 100 x 2

INT

Orange Coast Analytical, Inc.

QC DATA REPORT

Analysis : Organochlorine Pesticides (EPA 8081)

Date of Analysis :7/21/99
Laboratory Sample No :OCA 100
Laboratory Reference No : KJC 11021

Analyte	R1 (ppb)	SP (ppb)	MS (ppb)	MSD (ppb)	PR1 %	PR2 %	RPD %
4,4'-DDT	0.0	1.0	0.77	0.72	77	72	7

Definition of Terms :

R1	Results Of First Analysis
SP	Spike Concentration Added to Sample
MS	Matrix Spike Results
MSD	Matrix Spike Duplicate Results
PR1	Percent Recovery Of MS: {(MS-R1) / SP} x100
PR2	Percent Recovery Of MSD: {(MSD-R1) / SP} x 100
RPD	Relative Percent Difference: {(MS-MSD) / (MS+MSD)} x 100 x 2

INT m.n.

Orange Coast Analytical, Inc.

QC DATA REPORT

Analysis : Metals

Laboratory Reference No : KJC 11021

Analyte	Date Tested	QC Sample	R1 (ppm)	SP (ppm)	MS (ppm)	MSD (ppm)	PR1 %	PR2 %	RPD %
Antimony	07/20/99	99070257	0.00	1.00	1.08	1.14	108	114	5
Arsenic	07/20/99	99070257	0.00	1.00	1.08	1.06	108	106	2
Barium	07/20/99	99070257	0.093	0.100	0.190	0.192	97	99	1
Beryllium	07/20/99	99070257	0.00	0.100	0.110	0.110	110	110	0
Cadmium	07/20/99	99070257	0.00	0.100	0.101	0.102	101	102	1
Chromium (Total)	07/20/99	99070257	0.00	0.100	0.105	0.105	105	105	0
Chromium (VI)	07/16/99	OCA100	0.00	0.50	0.50	0.52	100	104	4
Cobalt	07/20/99	99070257	0.00	0.100	0.102	0.103	102	103	1
Copper	07/20/99	99070257	0.00	0.100	0.118	0.118	118	118	0
Lead	07/20/99	99070257	0.00	1.00	0.97	0.96	97	96	2
Mercury	07/20/99	OCA100	0.000	0.010	0.0096	0.0098	96	98	2
Molybdenum	07/20/99	99070257	0.00	1.00	1.06	1.06	106	106	0
Nickel	07/20/99	99070257	0.00	0.500	0.525	0.528	105	106	1
Selenium	07/20/99	99070257	0.00	1.00	1.10	1.08	110	108	2
Silver	07/20/99	99070257	0.00	0.500	0.482	0.478	96	96	1
Thallium	07/20/99	99070257	0.00	1.00	1.03	1.07	103	107	4
Vanadium	07/20/99	99070257	0.00	0.500	0.544	0.545	109	109	0
Zinc	07/20/99	99070257	0.01	0.100	0.113	0.115	99	101	2

Definition of Terms :

R1	Results Of First Analysis
SP	Spike Concentration Added to Sample
MS	Matrix Spike Results
MSD	Matrix Spike Duplicate Results
PR1	Percent Recovery Of MS: {(MS-R1) / SP} x100
PR2	Percent Recovery Of MSD: {(MSD-R1) / SP} x 100
RPD	Relative Percent Difference: {(MS-MSD) / (MS+MSD)} x 100 x 2

INT m.n.

Orange Coast Analytical, Inc.

KENNEDY/JENKS CONSULTANTS

SAMPLE CHAIN-OF-CUSTODY ANALYSIS REQUEST

☐ 200 New Stine Rd., #115, Bakersfield, CA 93309
☐ 530 South 336th St., Federal Way, WA 98003
☐ 17310 Red Hill Ave., #220, Irvine, CA 92714
☐ 2191 East Bayshore Rd., #200, Palo Alto, CA 94303
☐ 5190 Neil Road, #300, Reno, NV 89502
☐ 3336 Bradshaw Rd., #140, Sacramento, CA 95827
☐ 303 Second St., San Francisco, CA 94107
☐ 1000 Hill Rd., #200, Ventura, CA 93003

POSSIBLE HAZARDS:

Date 7-16-99

Source of Samples Boeing C-6

Sampler Name Shane Scrimshire

Phone 661-835-9785

Project No. 994001.00

Report To Rus Purcell

Company Kennedy/Jenks

Address 2151 Michelson Dr. #100
Irvine CA. 92612

Phone 949-261-1577

Lab Destination Orange Coast

Address

Phone

Carrier/Way Bill No.

(1) Lab ID No.	(1) Client ID No.	COLLECTION Date	COLLECTION Time	(2) Type	Depth	(3) Comp.	(4) Pres.	Turn-around	(5) ANALYSES REQUESTED: 8260 - VOCs	8015m - diesel + gas	8270 - SVOCs	8080 - Pesto	T-22 metals - 6010/7471/7196				Comment/Conditions (Container type, container number, etc.)
	WCC3D-GW-2	7/16/99	0840	W	—	—	HCL + HNO3	Norm.	X	X	X	X	X				
	WCC3D-GW-2-D		0840		—	—											
	WCC3S-GW-2		1012		—	—											
	WCC6S-GW-2		1110		—	—											
	TMW2-GW-2		1225		—	—											
	Rinsate Blank-1		1330		—	—											
	DACP1-GW-2		1435		—	—											
	Field Blank-1		1445		—	—											
	Trip Blank		—		—	—	HCL		X								
	TMW16-GW-2		1525		—	—	HCL + HNO3		X	X	X	X	X				

(1) Write only one sample number in each space.
(2) Specify type of sample(s): Water (W), Solid (S), or indicate type.
(3) Mark each sample which should be composited in Laboratory as follows: Place an "A" in box for each sample that should be composited into one sample; use sequential letter for additional groups.
(4) Preservation of sample.
(5) Write each analyses requested across top. Place an "X" in appropriate column to indicate type of analysis needed for each sample.

SAMPLE RELINQUISHED BY:

Print Name	Signature	Company	Date	Time
Shane Scrimshire	[signature]	K/5	7/16/99	1600
Joann Ornelas	[signature]	IES1	7/16/99	1730

SAMPLE RECEIVED BY:

Print Name	Signature	Company	Date	Time
[signature]	[signature]	IES1	7/16/99	4:02pm
Mark Noonan	MARK NOONAN	CCA	7/16/99	17:30

\MISC\CUSTODY2.FRM

000065.06

BOE-C6-0045901