1Q/96

GROUNDWATER MONITORING
DATA SUMMARY REPORT
FIRST QUARTER 1996

DOUGLAS AIRCRAFT COMPANY C-6
FACILITY
TORRANCE, CALIFORNIA

K/J 944016.01

APRIL 1996

Kennedy/Jenks Consultants

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1.0 INTRODUCTION

The Douglas Aircraft Company (DAC) C-6 Facility is located at 19503 South Normandie Avenue, Torrance, California (Figure 1). Quarterly groundwater sampling is being conducted in response to the California Regional Water Quality Control Board - Los Angeles Region correspondence to DAC, dated 7 April 1992. This report summarizes laboratory analytical data generated through the chemical analysis of groundwater samples collected between 29 February and 4 March, First Quarter 1996.

2.0 QUARTERLY MONITORING PROGRAM

First Quarter 1996 groundwater sampling was performed in accordance with standard sampling procedures. Static water level depths were measured on 29 February 1996 prior to initiating purging of groundwater from any observation. Static water depths on monitoring wells (MW-9, MW-18 and MW-19) located in the southern portion of the DAC property installed for the Montrose Chemical Corporation Remedial Investigation were not measured for this quarter.

Groundwater samples were collected from the following fifteen wells (Figure 2) and chemically analyzed for volatile organic compounds (VOCs) by EPA Method 8240/8260 for the First Quarter 1996.

> WCC-1S, WCC-2S, WCC-3S, WCC-4S, WCC-5S, WCC-6S, WCC-7S, WCC-8S, WCC-9S, WCC-10S, WCC-11S, WCC-12S, WCC-1D, WCC-3D, and DAC-P1.

Table 1 summarizes observation well construction details. Tables 2 and 3 summarize the results of chemical analysis of groundwater samples and duplicates for major and minor constituents at the C-6 facility, respectively. Chemicals detected in samples from each observation well are shown in Figure 3. Table 4 summarizes available measured groundwater elevations to date. Estimated groundwater elevation contours for the First Quarter are presented in Figure 4. Historical chemical concentration profiles for the indicator chemicals trichloroethene and 1,1-dichloroethene are shown in Figure 5. Copies of laboratory data sheets, laboratory/field Quality Control data sheets, groundwater purge and sample forms, and Chain-of-Custody records are included in Appendices A, B, C, and D respectively.

2.1 Groundwater Sampling Procedures

Prior to collecting groundwater samples from each well, groundwater was purged using an electrical submersible pump that was temporarily installed in the observation well. After lowering the pump to the approximate mid-point of the saturated well screen, approximately three to five wetted casing volumes of groundwater were purged from the well until the following groundwater monitoring parameters had stabilized to within 10% of preceding values: pH, electrical conductivity, and temperature. Purged groundwater was stored onsite in DOT approved 55 gallon barrels pending the results of laboratory analysis of samples.

Following groundwater purging, the flow rate of the submersible pump was reduced to 250 to 500 milliliters/minute. To collect a representative groundwater sample, the pump intake valve was positioned at the approximate mid-point of the saturated well screen interval. The recovered water was discharged into three labeled 40-ml capacity vials, preserved with HCl.

2.2 Field QA/QC Procedures

Duplicate groundwater samples were collected for the sampling round on 29 February, and 1 and 4 March 1996 for quality control purposes. The duplicates were collected in three HCl-preserved vials and identified by inserting the collection date after "DW-" (DW-022996). No further sample identification was provided to the laboratory. Duplicate samples were taken on 29 February, 1 March, and 4 March, from observation wells WCC-1D, WCC-8S, and DAC-P1, respectively.

Following decontamination of the submersible pump, and prior to collection of groundwater samples from the successive well, an equipment rinsate blank was prepared for laboratory analysis. The equipment rinsate blank 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 preserved with HCl. The blanks were identified following a similar protocol to that used for duplicate water samples and are identified as "EB followed by the date". The wells sampled before and after rinsate blank preparation were recorded. EB022996, EB030196, and EB030496 were collected after sampling wells WCC-10, WCC-7S, and WCC-6S. Trip blanks were also analyzed for sampling and shipping activities for each day of sampling and are identified as trip blanks or travel blanks.

All groundwater, duplicate, and field blank samples were transported in ice-cooled chests to Curtis & Tompkins, Ltd., General Analytical Laboratory, Irvine, California using U.S. EPA-recommended Chain-of-Custody procedures.

3.0 EVALUATION OF ANALYTICAL RESULTS

3.1 Groundwater Gradient

Groundwater levels were measured prior to sampling on 29 February 1996 (Table 4 and Appendix C). The shallow zone groundwater elevations measured for this quarter ranged from 15.19 feet below mean sea level (MSL) to 17.02 feet below MSL. An estimated potentiometric surface map for the shallow zone as measured on this day is presented as Figure 4. The groundwater gradient in the shallow zone was generally south-southeast with a southerly directed trough-like depression between observation wells WCC-10S and WCC-4S.

Insufficient data (two wells) are available to define the groundwater gradient in the deeper zone. Groundwater elevations in the two wells (WCC-1D and WCC-3D) were approximately 16.15 and 15.95 feet below MSL, respectively.

3.2 Analytical Data

The results of chemical analysis of groundwater and duplicate samples are summarized in Tables 2 and 3. Table 2 lists major constituents and Table 3 lists additional minor constituents of samples tested. The duplicate groundwater samples are indicated by an asterisk and are presented with the "original" groundwater samples. These tables include cumulative analytical data for all monitoring wells and detection limits (where available) for the listed chemicals.

The following observations are noted:

- Data for groundwater samples collected from well DAC-P1, located at the upgradient property boundary, indicate a TCE concentration of 16,000 micrograms per liter (µg/L) coming onto DAC's property. Other chemicals detected in well DAC-P1 include 1,1-DCE, cis-1,2-DCE, and toluene. The concentrations of these chemicals were within historical ranges. Low level detections of 1,1-DCA , 1,1,1-TCA, and trans-1,2-DCE reported in the previous sample round for the first time in several years were not detected in this quarter's analysis. DAC-P1 is screened in the shallow zone.

- Background concentrations of TCE and 1,1-DCE in the shallow zone upgradient or cross gradient wells WCC-10S, WCC-2S, and WCC-11S decreased slightly, but are within historical ranges at concentrations of 21 to 170 µg/L of TCE and less than 5 to 30 µg/L of 1,1-DCE.

- Groundwater elevation data (Figure 4) and chemical concentration data (Figure 3) indicate that chemical transport in the shallow zone is generally in a southerly to southeasterly direction in the vicinity of buildings 36 and 41. Most chemical concentration data from the eastern boundary observation wells (WCC-5S, and WCC-9S) are within the same range or lower than upgradient or cross gradient "background level" wells (WCC-10S, WCC-2S and WCC-11S).

- WCC-3S data show decreases in 1,1-DCE and toluene for the fourth consecutive quarter, to the lowest concentrations within the historical range.

- Decreases of 1,1-DCE, 1,1,1-TCA, TCE, and toluene concentrations were observed in well WCC-3D, though the concentrations were within historical variation.

- Other chemical concentration variances within observation wells were typical of historical ranges.

- Analytical data from the equipment rinsate blanks, sample duplicates, trip blanks, and laboratory spikes and duplicates are indicative of reliable data. Low level detections of bromodichloromethane and chloroform in the rinsate blank from 1 March were not reported in the samples following the equipment blank and are not considered to be problematic.

TABLES

TABLE 1
OBSERVATION WELL CONSTRUCTION DETAILS
GROUNDWATER MONITORING DATA SUMMARY REPORT
FIRST QUARTER, 1996
DOUGLAS AIRCRAFT C-6 FACILITY
TORRANCE, CALIFORNIA
K/J 944016.01

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
WCC-1S[1]	3/26/87	2	91	78-88	72	Schedule 40 PVC0.020-Inch Slots	Shallow
WCC-2S[1]	10/28/87	4	90.5	70-90	63	Schedule 40 PVC0.010-Inch Slots	Shallow
WCC-3S[1]	10/26/87	4	92	69-89	64	Schedule 40 PVC0.010-Inch Slots	Shallow
WCC-4S[1]	10/27/87	4	91.5	70.5-90.5	65	Schedule 40 PVC0.010-Inch Slots	Shallow
WCC-5S[1]	11/24/87	4	91	60.5-91	58.5	Schedule 40 PVC0.010-Inch Slots	Shallow
WCC-6S[2]	9/22/89	4	91	60-90	N/A[3]	Schedule 40 PVC0.010-Inch Slots	Shallow
WCC-7S[2]	6/8/89	4	90.5	60-90	54	Schedule 40 PVC0.010-Inch Slots	Shallow
WCC-8S[2]	6/12/89	4	90	59.5-89.5	54	Schedule 40 PVC0.010-Inch Slots	Shallow
WCC-9S[2]	9/21/89	4	91.5	60-90	55	Schedule 40 PVC0.010-Inch Slots	Shallow
WCC-10S	6/7/89	4	90.8	60-90	54	Schedule 40 PVC0.010-Inch Slots	Shallow
WCC-11S	N/A	4	N/A	60-90(?)	N/A	Schedule 40 PVC0.010-Inch Slots	Shallow
WCC-12S	N/A	4	N/A	60-90(?)	N/A	Schedule 40 PVC0.010-Inch Slots	Shallow
DAC-P[1]	9/25/89	4	N/A	60-90(?)	N/A	Schedule 40 PVC0.010-Inch Slots	Shallow
WCC-1D[2]	6/30/89	4	140	120-140	115	Schedule 40 PVC0.010-Inch Slots	Deeper
WCC-3D[2]	6/27/89	4	140	120-140	114	Schedule 40 PVC0.010-Inch Slots	Deeper
MW-8[4]	5/10/89	4	85	65-80	62	PVC blank and 316 Stainless Steel 0.020-inch Slot Screen	Shallow
MW-9[4]	5/9/89	4	85	66-81	61	PVC blank and 316 Stainless Steel 0.020-inch Slot Screen	Shallow
MW-18[4]	3/29/90	4	84	68-83	67	PVC blank and 316 Stainless Steel 0.020-inch Slot Screen	Shallow
MW-19[4]	3/30/90	4	80	63-79	62	PVC blank and 316 Stainless Steel 0.020-inch Slot Screen	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
4. Data from Hargis + Associates, Final Draft, Remedial Investigation, Montrose Site, Torrance, Ca, October 1992

TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL DATA - MAJOR CONSTITUENTS
GROUNDWATER MONITORING DATA SUMMARY REPORT
FIRST QUARTER 1996
DOUGLAS AIRCRAFT C-6 FACILITY
TORRANCE, CA

COMPOUNDS DETECTED BY EPA METHOD 8240 OR EPA METHOD 8240/8260 - All results in ug/l.

WELL I.D.	SAMPLE DATE	1,1-DCE	1,1,-DCA	1,1,1-TCA	TCE	MIBK	cis-1,2-DCE	trans-1,2-DCE	CHLOROFORM	BENZENE	TOLUENE	MEK
WCC-1S	03/27/87	2,800	-	300	4,600	-	-	-	-	85	-	-
	*04/13/87	3,700/2,500	-/-	260/120	5,500/3,600	-/-	-/-	-/-	-/-	110	-/-	-/-
	11/12/87	3,000	23	160	5,200	-	-	75	39	160	-	-
	07/13/89	900	<20	67	2,400	<100	<20	<20	<20	<20	<20	-
	08/23/89	1,500	30	<30	2,800	<100	41	<30	<30	<30	<30	-
	11/18/91	1,300	-	-	3,700	-	-	-	-	-	-	-
	06/17/92	1,700	<50	<50	3,800	<100	<5	<50	<50	<50	<50	<100
	09/23/92	1,500	13	16	3,400	<5	<1	14	13	37	1	<5
	12/09/92	1,500	<30	<30	3,100	<100	<30	<30	<30	30	<30	<100
	03/18/93	1,000	13	15	2,100	<5	27	15	14	33	<2	<10
	06/08/93	1,200	<20	<20	2,400	<200	27	<20	<20	35	<20	<400
	08/25/93	1,700	<20	<20	3,300	<200	27	<20	<20	42	<20	<400
	11/19/93	1,600	<20	<20	2,600	<200	25	<20	<20	38	<20	<400
	2/24/94	1,800	<20	<20	2,700	<200	33	21	<20	39	<20	<400
	6/13/94	1,000	11	11	1,700	<100	20	16	<10	<10	<10	<200
	9/9/94	1,400	<40	<40	2,300	<400	<40	<40	<40	<40	<40	<800
	12/22/94	3,000	23	24	3,100	<200	38	36	<20	57	<20	<400
	3/14/95	2,000	<20	<20	2,300	<200	22	22	<20	34	<20	<400
	6/13/95	2,700	20	<20	3,200	<200	29	31	<20	45	<20	<400
	9/7/95	1,800	22	22	2,600	<10	37	37	16	51	<5	<10
	12/15/95*	2,900/2,800	26/26	22/22	2,600/2,500	nr	34/33	40/40	17/16	42/42	<2/<2	nr
	3/04/96	3,000	27	24	2,700	<40	35	45	<20	<20	<20	<40
WCC-2S	11/02/87	5	-	5		-	-	-	-	-	6	-
	11/12/87	2	-	1	4	-	-	-	-	-	1	-
	7/13/89	<1	<1	<1	5	<5	<1	<1	<1	<1	<1	-
	8/23/89	<1	<1	<1	3	<5	<1	<1	<1	<1	<1	-
	11/19/91	30	-	8	110	-	-	-	-	-	75	-
	06/16/92	30	<5	<5	100	<10	<5	<5	<5	<5	<5	<10
	*09/22/92	18/19	<1/<1	<1/<1	110/97	<5/<5	<1/<1	<1/<1	<1/<1	<1/<1	1/1	<5/<5
	*12/08/92	49/27	<1/<1	2/2	140/99	<5/<5	<1/<1	<1/<1	<1/2	<1/<1	<1/<1	<5/<5
	*03/17/93	32/33	<2/<2	<2/<2	110/100	<5/<5	<2/<2	<2/<2	<2/<2	<2/<2	<2/<2	<10/<10
	06/07/93	48	<2	<2	150	<20	<2	<2	<2	<2	<2	<40
	08/24/93	16	<2	<2	90	<20	<2	<2	<2	<2	<2	<40
	11/19/93	41	<2	<2	94	<20	<2	<2	<2	<2	<2	<40
	2/24/94	30	<2	<2	96	<20	<2	<2	<2	<2	<2	<40
	6/10/94	24	<2	<2	97	<20	<2	<2	<2	<2	<2	<40
	9/8/94	37	<2	<2	150	<20	<2	<2	<2	<2	<2	<40
	12/22/94	28	<2	<2	110	<20	<2	<2	<2	<2	<2	<40
	3/13/95	27	<2	<2	160	<20	<2	<2	<2	<2	<2	<40
	6/12/95	30	<2	<2	130	<20	<2	<2	<2	<2	<2	<40
	9/6/95	56	<5	<5	200	<10	<5	<5	<5	<5	<5	<10
	12/15/95	15	<2	<2	60	nr	<2	<2	<2	<2	<2	nr
	3/01/96	<5	<5	<5	21	<10	<5	<5	<5	<5	<5	<10

1 * Duplicate sample also analyzed. 2 - Not Detected (Detection Limit not specified). 3 - nr: Not Reported 4 ** Estimated

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WELL I.D.	SAMPLE DATE	1,1-DCE	1,1,-DCA	1,1,1-TCA	TCE	MIBK	cis-1,2-DCE	trans-1,2-DCE	CHLOROFORM	BENZENE	TOLUENE	MEK
WCC-3S	11/02/87	38,000	-	110,000	10,000	54,000	-	-	-	-	80,000	-
	11/12/87	88,000	1,000	54,000	11,000	70,000	-	1,000	-	-	140,000	-
	7/13/89	18,000	<500	56,000	7,700	<3000	<500	660	<500	<500	32,000	-
	08/23/89	58,000	<1,000	78,000	6,000	<5000	<1,000	<1,000	<1,000	<1,000	56,000	-
	11/14/91	12,000	400	6,900	7,900	70,000	550	550	250	-	27,000	12,000
	06/17/92	25,000	<5,000	13,000	13,000	100,000	<5,000	<5,000	<5,000	<,5000	51,000	<10,000
	09/23/92	22,000	<500	7,800	12,000	82,000	<500	<500	<500	<500	52,000	<3,000
	12/09/92	21,000	<500	5,600	11,000	90,000	700	600	<500	<500	44,000	4,000
	*03/18/93	20,000/20,000	650/510	21,000/22,00	8,800/8,800	44,000/45,000	650/640	640/670	120/110	240/260	42,000/42,000	<50/<50
	06/08/93	16,000	420	5,900	8,600	79,000	520	480	<100	210	37,000	<2,000
	*08/25/93	21,000/20,000	500/560	10,000/9,500	11,000/9,700	50,000/49,000	670/700	680/710	<400/<10	<400/250	46,000/40,000	<8,000/660
	11/19/93	26,000	690	19,000	10,000	47,000	1,100	840	<200	280	50,000	<4,000
	2/24/94	15,000	310	9,600	2,500	15,000	2,500	360	<200	<200	25,000	<4,000
	6/13/94	13,000	310	6,200	820	9,900	4,100	360	<200	<200	23,000	<4000
	*9/9/94	23,000/25,000	520/560	9,000/9,800	<500/<500	6,000/5,000	7,700/8,400	600/640	<500/<500	<500/<500	43,000/47,000	<10000/<1000
	12/22/94	20,000	440	6,700	390	3,400	6,700	530	<200	200	35,000	<4,000
	3/14/95	24,000	570	8,700	2,300	4,600	6,200	670	<200	230	40,000	<4,000
	6/13/95	22,000	450	4,800	1,200	6,600	6,300	500	<400	<400	39,000	<8000
	9/7/95	13,000	480	4,100	910	4,600	6,000	520	76	220	31,000	<200
	12/16/95	12,000	350	3,100	670	nr	4,400	400	45	130	**23000	nr
	3/04/96	8,400	230	1,900	480	200	3,200	280	<50	100	15,000	<100
WCC-4S	11/02/87	360	-	14	700	-	-	2	2	-	-	-
	11/12/87	1,200	-	35	690	-	-	-	-	-	-	-
	7/13/89	170	<3	11	270	-	10	<3	<3	<3	<3	-
	08/23/89	360	<5	7	410	<20	15	<5	<5	<5	<5	-
	11/18/91	1,000		20	2,200	<30	-	-	-	-	-	-
	06/17/92	920	<25	<25	1,500	<50	<25	<25	<25	<25	<25	<50
	09/23/92	1,400	<10	20	1,900	<50	<10	<10	10	<10	<10	<50
	12/08/92	1,000	<10	20	1,600	<50	10	<10	10	<10	<10	<50
	03/17/93	810	8	14	1,200	<5	8	5	5	6	<2	<10
	06/08/93	1,300	<10	12	1,800	<100	10	<10	<10	<10	<10	<200
	08/25/93	1,100	<10	<10	1,400	<100	<10	<10	<10	<10	<10	<200
	11/19/93	610	17	8	700	<40	6	5	<4	4	9	<80
	2/24/94	1,100	5.8	8.8	980	<40	8.7	7.2	5.1	6.4	<4	<80
	6/14/94	800	<4	5	940	<40	7.1	5.2	<4	<4	<4	<80
	9/9/94	1,000	<20	<20	1,300	<200	<20	<20	<20	<20	<20	<400
	12/22/94	670	<10	<10	750	<100	<10	<10	<10	<10	<10	<200
	3/14/95	400	9.8	4.9	450	<40	4.9	<4	<4	<4	<4	<80
	6/13/95	1,100	8.6	<6.6	1,100	<66	7.9	<6.6	<6.6	7	<6.6	<130
	9/7/95	910	8	6	1,200	<10	10	9	7	13	<5	<10
	12/15/95	1,100	4	<2	1,200	nr	8	7	4	2	<2	nr
	3/04/96	710	<5	<5	770	<10	6	6	<5	<5	<5	<10

1 * Duplicate sample also analyzed. 2 - Not Detected (Detection Limit not specified). 3 - nr: Not Reported 4 ** Estimated

TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL DATA - MAJOR CONSTITUENTS
GROUNDWATER MONITORING DATA SUMMARY REPORT
FIRST QUARTER 1996
DOUGLAS AIRCRAFT C-6 FACILITY
TORRANCE, CA

COMPOUNDS DETECTED BY EPA METHOD 8240 OR EPA METHOD 8240/8260 - All results in ug/l.

WELL I.D.	SAMPLE DATE	1,1-DCE	1,1,-DCA	1,1,1-TCA	TCE	MIBK	cis-1,2-DCE	trans-1,2-DCE	CHLOROFORM	BENZENE	TOLUENE	MEK
WCC-5S	11/30/87	7	-	1	-	-	-	-	-	-	1	-
	01/08/88	4	-	10	-	-	-	-	-	-	-	-
	*07/13/89	3/3	<1/<1	13/12	<5/<5	<1/<1	6/6	<1/<1	<1/<1	<1/<1	<1/<1	-
	08/23/89	<1	<1	12	<5	<1	4	<1	<1	<1	<1	-
	11/19/91	20	-	-	8	-	-	-	-	-	7	-
	06/15/92	28	<5	<5	7	<10	<5	<5	<5	<5	<5	<10
	09/21/92	21	<1	<1	5	<5	<1	<1	<1	<1	<1	<5
	12/07/92	21	<1	<1	5	<5	<1	<1	<1	<1	<1	<5
	03/16/93	18	<2	<2	4	<5	<2	<2	<2	<2	<2	<10
	06/07/93	22	<2	<2	4	<20	<2	<2	<2	<2	<2	<40
	08/24/93	23	<2	<2	5	<20	<2	<2	<2	<2	<2	<40
	11/18/93	21	<2	<2	3	<20	<2	<2	<2	<2	<2	<40
	2/23/94	20	<2	<2	4	<20	<2	<2	<2	<2	<2	<40
	*6/10/94	25/25	<2/<2	<2/<2	3.4/3.4	<20<20	<2/<2	<2/<2	<2/<2	<2/<2	<2/<2	<40/<40
	9/8/94	18	<2	<2	3.3	<20	<2	<2	<2	<2	<2	<40
	12/21/94	18	<2	<2	2.9	<20	<2	<2	<2	<2	<2	<40
	3/13/95	14	<2	<2	2.8	<20	<2	<2	<2	<2	<2	<40
	6/12/95	19	<2	<2	3.2	<20	<2	<2	<2	<2	<2	<40
	9/6/95	18	<5	<5	<5	<10	<5	<5	<5	<5	<5	<10
	12/12/95	15	<2	<2	3	nr	<2	<2	<2	<2	<2	nr
	2/29/96	10	<5	<5	<5	<10	<5	<5	<5	<5	<5	<10
WCC-6S	10/06/89	210	4	130	140	<5	12	7	<1	<1	<1	-
	11/16/91	5,800		5,000		17,000	-	-	-	-	35,000	21,000
	06/17/92	5,400	<500	2,100	3,000	7,600	<500	<500	<500	<500	15,000	6,300
	09/23/92	5,900	94	1,300	3,100	7,500	200	170	20	67	10,000	3,600
	*12/09/92	3,700/5,600	80/<100	680/1,400	2,700/3,200	3,400/<500	200/200	100/200	<50/<100	80/<100	5,000/10,000	3,000/5,000
	03/17/93	3,200	50	1,200	1,400	3,900/<500	<10	80	15	40	10,000	3,800
	06/08/93	5,500	<100	1,900	2,100	13,000	260	120	<100	<100	21,000	7,800
	08/25/93	5,400	<100	2,100	1,900	11,000	630	130	<100	<100	19,000	7,600
	11/19/93	2,200	42	440	670	4,700	480		<10	24	4,900	3,100
	2/24/94	11,000	91	2,200	1,800	13,000	1,400	140	21	52	20,000	4,400
	*6/13/94	5,800/6,300	87/<100	1,900/1,500	1,400/1,300	4,400/5,200	1,600/1,400	130/100	18/<100	52/<100	12,000/<13,000	1,400/<2,000
	9/9/94	Not sampled; well head obstructed										
	12/22/94	9,100	<200	1,300	1,900	4,800	2,500	<200	<200	<200	16,000	<4,000
	3/14/95	3,000	38	200	930	390	850	60	<20	25	2,300	<400
	6/13/95	9,800	130	810	510	450	4,200	180	28	82	8,400	<400
	*9/7/95	4,300/3,800	55/70	370/310	620/520	240/180	2,400/2,200	83/99	14/19	50/56	2,900/2,500	12/11
	12/16/95	11,000	120	1,400	2,000	nr	2,600	160	28	66	4,900	nr
	3/04/96	8,300	93	1,600	2,000	350	2,000	140	<50	56	3,900	340

1 * Duplicate sample also analyzed. 2 - Not Detected (Detection Limit not specified). 3 - nr: Not Reported 4 ** Estimated

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GROUNDWATER MONITORING DATA SUMMARY REPORT
FIRST QUARTER 1996
DOUGLAS AIRCRAFT C-6 FACILITY
TORRANCE, CA

COMPOUNDS DETECTED BY EPA METHOD 8240 OR EPA METHOD 8240/8260 - All results in ug/l.

WELL I.D.	SAMPLE DATE	1,1-DCE	1,1,-DCA	1,1,1-TCA	TCE	MIBK	cis-1,2-DCE	trans-1,2-DCE	CHLOROFORM	BENZENE	TOLUENE	MEK
WCC-7S	07/13/89	850	<10	110	1,300	<50	26	11	<10	<10	<10	-
	08/23/89	1,100	<30	66	1,400	<100	31	<30	<30	<30	<30	-
	11/18/91	390	-	-	1,200	-	-	-	-	-	-	-
	06/17/92	230	<5	<5	560	<10	<5	<5	<5	<5	<5	<10
	09/23/92	140	<5	<5	570	<30	<5	<5	<5	<5	<5	<30
	12/08/92	140	<5	<5	430	<30	<5	<5	<5	<5	<5	<30
	03/17/93	77	<2	<2	200	<5	4	<2	<2	<2	<2	<10
	06/07/93	120	<2	<2	330	<20	4	<2	<2	<2	<2	<40
	08/25/93	70	<4	<4	210	<40	4	<4	<4	<4	<4	<80
	11/19/93	56	<2	<2	130	<20	<2	<2	<2	<2	<2	<40
	2/24/94	75	<2	<2	140	<20	2.5	<2	<2	<2	<2	<40
	6/13/94	58	<2	<2	110	<20	2.5	<2	<2	<2	<2	<40
	9/8/94	50	13	<2	250	<20	<2	<2	<2	<2	<2	<40
	12/22/94	94	<2	<2	94	<20	<2	<2	<2	<2	<2	<40
	3/14/95	53	<2	<2	84	<20	<2	<2	<2	<2	<2	<40
	*6/13/95	110/98	<2/<2	<2/<2	230/220	<20/<20	<2/<2	<2/<2	<2/<2	<2/<2	<2/<2	<40/<40
	9/7/95	150	<5	<5	200	<10	<5	<5	<5	<5	<5	<10
	12/15/95	98	<2	<2	140	nr	<2	<2	<2	<2	<2	nr
	3/01/96	91	<5	<5	120	<10	<5	<5	<5	<5	<5	<10
WCC-8S	07/13/89	430	<5	160	240	<30	7	9	<5	<5	<5	-
	08/23/89	820	<5	130	430	<30	7	<5	<5	<5	<5	-
	11/15/91	2,600	-	400	3,000	-	40	40	25	-	120	-
	*06/17/92	2,200/2,300	<25/<50	180/180	2,400/2,600	<50/<100	<25/<50	<25/<50	<25/<50	<25/<50	<25/<50	<50/<100
	09/23/92	2,800	<20	200	3,100	<100	<20	20	20	<20	<20	<100
	12/08/92	2,000	<20	100	2,500	<100	20	30	20	20	<20	<100
	03/17/93	1,800	11	180	1,500	<5	15	26	10	15	<2	<10
	06/08/93	3,000	<20	300	2,000	<200	<20	40	<20	<20	<20	<400
	08/25/93	3,100	<20	330	2,200	<200	<20	45	<20	<20	<20	<400
	11/19/93	3,300	<20	330	2,000	<200	<20	50	<20	24	<20	<400
	2/24/94	3,400	<20	300	1,200	<200	<20	35	<20	<20	<20	<400
	6/13/94	4,000	<40	290	2,200	<400	<40	44	<40	<40	<40	<800
	9/9/94	4,600	<50	280	3,100	<500	<50	<50	<50	<50	<50	<1000
	12/22/94	4,000	<20	230	2,100	<200	<20	43	<20	25	<20	<400
	3/14/95	4,500	<40	220	2,600	<400	<40	41	<40	<40	<40	<800
	6/13/95	4,200	<40	150	2,400	<400	<40	<40	<40	<40	<40	<800
	9/7/95	2,200	10	110	1,700	<10	15	28	9	22	<5	<10
	12/15/95	4,200	16	120	2,300	nr	18	40	<2	10	<2	nr
	*3/01/96	3,500/3,600	<20/<20	120/120	2,100/2,200	<40/<40	<20/<20	40/41	<20/<20	<20/<20	<20/<20	<40/<40

1 * Duplicate sample also analyzed. 2 - Not Detected (Detection Limit not specified). 3 - nr: Not Reported 4 ** Estimated

TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL DATA - MAJOR CONSTITUENTS
GROUNDWATER MONITORING DATA SUMMARY REPORT
FIRST QUARTER 1996
DOUGLAS AIRCRAFT C-6 FACILITY
TORRANCE, CA

COMPOUNDS DETECTED BY EPA METHOD 8240 OR EPA METHOD 8240/8260 - All results in ug/l.

WELL I.D.	SAMPLE DATE	1,1-DCE	1,1,-DCA	1,1,1-TCA	TCE	MIBK	cis-1,2-DCE	trans-1,2-DCE	CHLOROFORM	BENZENE	TOLUENE	MEK
WCC-9S	10/06/89	<1	<1	<1	15	<5	7	<1	<1	<1	<1	-
	11/19/91	-	-	-	20	-	-	-	-	-	-	-
	06/15/92	7	<5	<5	42	<10	<5	<5	<5	<5	<5	<10
	09/21/92	6	<1	<1	45	<5	2	<1	6	<1	<1	<5
	12/07/92	10	<1	<1	51	<5	<1	<1	12	<1	<1	<5
	03/16/93	6	<2	<2	23	<5	3	<2	11	<2	<2	<10
	*06/07/93	11/11	<2/<2	<2/<2	42/39	<20/<20	<2/<2	<2/<2	18/17	<2/<2	<2/<2	<40/<40
	08/24/93	5	<2	<2	26	<20	4	<2	<2	<2	<2	<40
	11/18/93	5	<2	<2	43	<20	<2	<2	7	<2	<2	<40
	2/23/94	<4	<2	<2	31	<20	2	<2	4	<2	<2	<40
	6/10/94	<4	<2	<2	28	<20	4.4	<2	2.5	<2	<2	<40
	9/8/94	<4	<2	<2	38	<20	2.7	<2	4.1	<2	<2	<40
	*12/21/94	<4/<4	<2/<2	<2/<2	22/26	<20/<20	3.1/3.3	<2/<2	3.0/3.1	<2/<2	<2/<2	<40/<40
	3/13/95	7	<2	<2	56	<20	<2	<2	8.4	<2	<2	<40
	*6/12/95	<4/<4	<2/<2	<2/<2	23/21	<20/<20	<2/<2	<2/<2	6.4/6	<2/<2	<2/<2	<40/<40
	9/6/95	11	<5	<5	64	<10	<5	<5	19	<5	<5	<10
	12/12/95	4	<2	<2	18	nr	3	<2	4	<2	<2	nr
	2/29/96	<5	<5	<5	17	<10	<5	<5	<5	<5	<5	<10
WCC-10S	*07/13/89	2/1	<1/<1	<1/<1	86/87	<5/<5	<1/<1	<1/<1	3/3	<1/<1	<1/<1	-
	08/23/89	4	<1	<1	81	5	<1	<1	4	<1	<1	-
	11/20/91	-	-	-	87	-	-	-	-	-	-	-
	06/16/92	10	<5	<5	120	<10	<5	<5	<5	<5	<5	13
	*09/21/92	9/9	<1/<1	<1/<1	120/110	<5/<5	<1/<1	<1/<1	4/4	<1/<1	<1/<1	<5/<5
	12/8/92	8	<1	<1	110	<5	<1	<1	5	<1	<1	<5
	03/16/93	9	<2	<2	130	<5	<2	<2	6	<2	<2	<10
	06/07/93	13	<2	<2	120	<20	<2	<2	4	<2	<2	<40
	08/25/93	<4	<2	<2	120	<20	<2	<2	<2	<2	<2	<40
	11/19/93	9	<2	<2	82	<20	<2	<2	2	<2	<2	<40
	2/23/94	10	<2	<2	110	<20	<2	<2	5	<2	<2	<40
	6/10/94	17	<2	<2	120	<20	<2	<2	4.3	<2	<2	<40
	9/8/94	17	<2	<2	130	<20	<2	<2	<2	<2	<2	<40
	*12/22/94	14/13	<2/<2	<2/<2	99/94	<20/<20	<2/<2	<2/<2	3.1/3.0	<2/<2	<2/<2	<40/<40
	*3/13/95	19/19	<2/<2	<2/<2	120/130	<20/<20	<2/<2	<2/<2	2.2/2.3	<2	<2	<40
	6/12/95	20	<2	<2	140	<20	<2	<2	2.3	<2	<2	
	9/6/95	27	<5	<5	160	<10	<5	<5	<5	<5	<5	<10
	12/16/95	23	<2	<2	135	nr	<2	<2	4	<2	<2	nr
	03/01/96	20	<5	<5	120	<10	<5	<5	<5	<5	<5	<10

1 * Duplicate sample also analyzed. 2 - Not Detected (Detection Limit not specified). 3 - nr: Not Reported 4 ** Estimated

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SUMMARY OF GROUNDWATER ANALYTICAL DATA - MAJOR CONSTITUENTS
GROUNDWATER MONITORING DATA SUMMARY REPORT
FIRST QUARTER 1996
DOUGLAS AIRCRAFT C-6 FACILITY
TORRANCE, CA

COMPOUNDS DETECTED BY EPA METHOD 8240 OR EPA METHOD 8240/8260 - All results in ug/l.

WELL I.D.	SAMPLE DATE	1,1-DCE	1,1,-DCA	1,1,1-TCA	TCE	MIBK	cis-1,2-DCE	trans-1,2-DCE	CHLOROFORM	BENZENE	TOLUENE	MEK
WCC-11S	11/15/91	10	-	-	80	-	-	-	-	-	-	-
	06/16/92	21	<5	<5	120	<10	<5	<5	<5	<5	<5	<10
	09/21/92	17	<1	<1	140	<5	2	<1	<1	<1	<1	<5
	12/08/92	13	<1	<1	83	<5	6	<1	<1	<1	<1	<5
	03/16/93	25	<2	<2	160	<5	4	<2	<2	<2	<2	<10
	06/07/93	16	<2	<2	110	<20	5	<2	<2	<2	<2	<40
	08/24/93	14	<2	<2	97	<20	4	<2	<2	<2	<2	<40
	*11/19/93	14/14	<2/<2	<2/<2	100/100	<20/<20	3/3	<2/<2	<2/<2	<2/<2	<2/<2	<40/<40
	2/23/94	16	<2	<2	100	<20	4	<2	<2	<2	<2	<40
	6/10/94	16	<2	<2	85	<20	4.8	<2	<2	<2	<2	<40
	*9/8/94	20/19	<2/<2	<2/<2	140/120	<20/<20	4.8/5.9	<2/<2	<2/<2	<2/<2	<2/<2	<40/<40
	12/21/94	26	<2	6	130	<20	4.2	<2	<2	<2	10	<40
	3/13/95	16	<2	<2	100	<20	5.6	<2	<2	<2	<2	<40
	6/12/95	22	<2	<2	130	<20	6	<2	<2	<2	<2	<40
	*9/6/95	31/30	<5/<5	<5/<5	190/200	<10/<10	<5/<5	<5/<5	<5/<5	<5/<5	<5/<5	<10/<10
	12/15/95	34	<2	<2	210	nr	5	<2	<2	<2	<2	nr
	3/1/96	30	<5	<5	170	<10	<5	<5	<5	<5	<5	<10
WCC-12S	11/18/91	300	-	17	900	-	-	-	-	-	-	-
	*06/16/92	250/260	<5/5	<5/<5	660/710	<10/<10	<5/<5	<5/<5	<5/<5	<5/<5	<5/<5	<10/10
	09/22/92	130	7	1	500	<5	3	<1	3	<1	<1	<5
	12/08/92	160	<5	<5	550	<30	5	<5	<5	<5	<5	<30
	03/17/93	100	7	<2	410	<5	4	8	3	<2	<2	<10
	06/07/93	130	2	<2	370	<20	5	<2	<2	<2	<2	<40
	08/25/93	100	<4	<4	390	<40	<4	<4	<4	<4	9	<80
	11/19/93	45	9	<2	220	<20	<2	<2	<2	<2	<2	<40
	2/24/94	89/77	7.7/3.9	<2/<2	270/220	<20/<20	2.9/3.3	<2/<2	<2/<2	<2/<2	<2/<2	<40/<40
	6/13/94	84	15	<2	270	<20	2.6	<2	2	<2	<2	<40
	9/9/94	97	<2	<2	160	<20	<2	<2	<2	<2	<2	<40
	12/22/94	52	17	<2	190	<20	2.1	<2	<2	<2	<2	<40
	3/14/95	53	18	<2	230	<20	<2	<2	2.9	<2	<2	<40
	6/12/95	72	28	<2	330	<20	<2	<2	3.2	<2	<2	<40
	9/6/95	60	32	<5	300	<10	<5	<5	<5	<5	<5	<10
	12/15/95	44	10	<2	140	nr	3	<2	2	<2	<2	nr
	3/01/96	47	13	<5	150	<10	<5	<5	<5	<5	<5	<10

1 * Duplicate sample also analyzed. 2 - Not Detected (Detection Limit not specified). 3 - nr: Not Reported 4 ** Estimated

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COMPOUNDS DETECTED BY EPA METHOD 8240 OR EPA METHOD 8240/8260 - All results in ug/l.

WELL I.D.	SAMPLE DATE	1,1-DCE	1,1,-DCA	1,1,1-TCA	TCE	MIBK	cis-1,2-DCE	trans-1,2-DCE	CHLOROFORM	BENZENE	TOLUENE	MEK
DAC-P1	10/09/89	<200	<200	<200	17,000	<1,000	<200	<200	<200	<200	<200	<1,000
	6/17/92	<5	<5	<5	21,000	<10	13	<5	10	<5	<5	<10
	*06/23/92	4/4	<1/<1	<1/<1	28,000/28,000	<5/<5	71/70	1/2	54/51	5/5	<1/<1	<5/<5
	12/09/92	<300	<500	<500	29,000	<3,000	<500	<500	<500	<500	<500	<3,000
	03/18/93	21	<2	44	21,000	7	68	2	44	5	260	<10
	06/08/93	<200	<100	<100	28,000	<1,000	<100	<100	<100	<100	130	<2,000
	08/25/93	<400	<200	<200	27,000	<2,000	<200	<200	<200	<200	300	<4,000
	11/19/93	<40	<20	<20	24,000	<200	81	<20	52	<20	<20	<400
	2/24/94	<40	<20	<20	20,000	<200	89	<20	47	<20	<20	<400
	6/13/94	<40	<20	<20	20,000	<200	92	<20	46	<20	<20	<400
	9/9/94	<400	<200	<200	18,000	<2,000	<200	<200	<200	<200	<200	<4,000
	12/22/94	<400	<200	<200	11,000	<2,000	<200	<200	<200	<200	<200	<4,000
	3/14/95	<400	<200	<200	21,000	<2,000	<200	<200	<200	<200	<200	<4,000
	6/13/95	<400	<200	<200	18,000	<2000	<200	<200	<200	<200	<200	<4,000
	9/7/95	12	<5	<5	13,000	<10	89	<5	33	<5	53	<10
	12/16/95	120	2	38	20,000	nr	130	5	45	5	680	nr
	*3/04/96	100/100	<100/<100	<100/<100	15,000/16,000	<200/<200	100/100	<100/<100	<100/<100	<100/<100	260/250	<200/<200
WCC-1D	07/25/89	<1	<1	<1	2	<5	1	<1	<1	<1	1	-
	08/23/89	<1	<1	1	2	<5	<1	<1	<1	<1	<1	-
	11/15/91	90	-	8	40	-	-	-	-	-	20	-
	*06/15/92	1,500/1,300	<25/<25	63/64	230/210	<50/<65	<25/<25	<25/<25	<25/<25	<25/<25	<25/<25	<50/<50
	09/22/92	180	<1	8	44	<5	2	<1	<1	<1	<1	<5
	*12/07/92	160/150	<1/<1	8/160	41/6	<5/<5	2/<1	<1/<1	1/1	<1/<1	<1/3	<5/<5
	03/16/93	200	<2	19	23	<5	3	<2	<2	<2	<2	<10
	*06/08/93	500/480	<10/<4	14/17	71/72	<100/<40	<10/<4	<10/<4	<10/<4	<10/<4	<10/<4	<200/<80
	08/24/93	540	<2	16	67	<20	3	2	<2	<2	2	<40
	11/18/93	880	<2	16	110	<20	3	3	<2	<2	<2	<40
	2/23/94	140	<2	3	14	<20	<2	<2	<2	<2	<2	<40
	6/10/94	230	<2	3.7	24	<20	<2	<2	<2	<2	<2	<40
	9/8/94	210	<2	3.6	37	<20	<2	<2	<2	<2	<2	<40
	12/22/94	600	<2	10	71	<20	2.3	2.2	<2	<2	2.2	<40
	3/13/95	240	<4	<4	38	<40	<4	<4	<4	<4	<4	<80
	6/13/95	170	<2	<2	21	<20	2	<2	<2	<2	<2	<40
	9/6/95	150	<5	<5	29	<10	<5	<5	<5	<5	<5	<10
	12/16/95	12	<2	<2	23	nr	3	<2	<2	<2	<2	nr
	*2/29/96	<5/<5	<5/<5	<5/<5	<5/<5	<10/<10	<5/<5	<5/<5	<5/<5	<5/<5	<5/<5	<10/<10

1 * Duplicate sample also analyzed. 2 - Not Detected (Detection Limit not specified). 3 - nr: Not Reported 4 ** Estimated

TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL DATA - MAJOR CONSTITUENTS
GROUNDWATER MONITORING DATA SUMMARY REPORT
FIRST QUARTER 1996
DOUGLAS AIRCRAFT C-6 FACILITY
TORRANCE, CA

COMPOUNDS DETECTED BY EPA METHOD 8240 OR EPA METHOD 8240/8260 - All results in ug/l.

WELL I.D.	SAMPLE DATE	1,1-DCE	1,1,-DCA	1,1,1-TCA	TCE	MIBK	cis-1,2-DCE	trans-1,2-DCE	CHLOROFORM	BENZENE	TOLUENE	MEK
WCC-3D	07/25/89	<1	<1	49	4	<5	11	<1	<1	<1	3	-
	08/23/89	<10	<10	32	<10	<50	<10	<10	<10	<10	<10	-
	11/14/91	20	-	60	-	-	-	-	-	-	-	-
	06/16/92	510	<5	880	23	<10	<5	<5	<5	<5	8	<10
	09/22/92	21	<1	27	2	<5	<1	<1	<1	<1	<1	<5
	12/07/92	120	<1	130	5	<5	<1	<1	1	<1	3	<5
	*03/16/93	950/1,000	6/6	2,000/2,000	50/47	<5/<5	2/2	9/9	<2/<2	<2/<2	6/6	<10/<10
	06/08/93	110	<2	110	6	<20	<2	<2	<2	<2	<2	<40
	08/24/93	120	<2	100	5	<20	<2	<2	<2	<2	3	<40
	*11/18/93	610/840	<2/<4	410/640	17/23	<20/<40	<2/4	4/4	<2/<4	<2/<4	6/8	<40/<80
	2/23/94	370/420	<4/<4	530/590	23/25	<40/<40	<4/<4	<4/<4	<4/<4	<4/<4	12/13	<80/<80
	6/13/94	720	<10	1,300	96	<100	<10	<10	<10	<10	<10	<200
	9/9/94	3,700	<50	5,600	490	<500	<50	<50	<50	<50	<50	<1,000
	12/21/94	5,200	10	6,300	540	<40	15	22	<4	8.6	5,100	<80
	*3/14/95	3,300/3,200	<40/<20	4,000/3,900	370/380	<400/<200	<40/<20	<40/<20	<40/<20	<40/<20	3,200/3,400	<800/<400
	6/13/95	1,800	<10	2,100	200	<100	<10	<10	<10	<10	1,700	<200
	9/7/95	3,400	13	4,100	520	170	60	30	<5	13	4,700	<10
	12/16/95	111	<2	90	32	nr	3	<2	<2	<2	88	nr
	3/04/96	53	<5	40	23	<10	<5	<5	<5	<5	6	<10

Notes:
ug/l = micrograms per liter
1,1-DCE = Dichloroethene
1,1-DCA = Dichloroethane
1,1,1-TCA = 1,1,1-Trichloroethane
TCE = Trichloroethene
MIBK = Methyl isobutyl ketone
cis-1,2,-DCE = cis-1,2-Dichloroethene
trans-1,2-DCE = trans-1,2-Dichloroethene
MEK = Methyl ethyl ketone

1 * Duplicate sample also analyzed. 2 - Not Detected (Detection Limit not specified). 3 - nr: Not Reported 4 ** Estimated

TABLE 3
SUMMARY OF GROUNDWATER ANALYTICAL DATA - MINOR CONSTITUENTS
GROUNDWATER MONITORING DATA SUMMARY REPORT
FIRST QUARTER 1996
DOUGLAS AIRCRAFT C-6 FACILITY
TORRANCE, CA

COMPOUNDS DETECTED BY EPA METHOD 8240 OR EPA METHOD 8240/8260 - All results in ug/l.

WELL I.D.	SAMPLE DATE	Acetone	Total Xylenes	Trichloro-fluoromethane	Methylene Chloride	Carbon Tetra-Chloride	1,1,2-TCA	PCE	Carbon Disulfide	Ethyl-Benzene	1,2-DCA
WCC-1S	03/27/87	-	-	-	-	-	-	-	-	-	-
	*04/13/87	-	-	-	-	-	-	-	-	-	-
	11/12/87	-	-	-	-	-	-	-	-	-	-
	07/13/89	-	-	-	-	-	-	-	-	-	-
	08/23/89	-	-	-	-	-	-	-	-	-	-
	11/18/91	-	-	-	-	-	-	-	-	-	-
	06/17/92	<300	-	-	-	-	-	-	-	-	-
	09/23/92	<5	<1	<1	4	<1	<1	<1	22	<1	<1
	12/09/92	<100	<30	<30	40	<30	<30	<30	<30	<30	<30
	03/18/93	<10	<2	<5	<10	<5	<2	<2	<5	<2	<2
	06/08/93	<400	<20	<20	<100	<20	<20	<20	<20	<20	<20
	08/25/93	<400	<20	<20	<40	<20	<40	<20	<20	<20	<20
	11/19/93	<400	<20	<20	<100	<20	<40	<20	<20	<20	<20
	2/24/94	<400	<20	<20	<100	<20	<40	<20	<20	<20	<20
	6/13/94	<200	<30	<10	<50	<10	<20	<10	<10	<10	<10
	9/9/94	<800	<120	<40	<200	<40	<80	<40	<40	<40	<40
	12/22/94	<400	<40	<20	<100	<20	<40	<20	<20	<20	<20
	3/14/95	<400	<40	<20	<100	<20	<40	<20	<20	<20	<20
	6/13/95	<400	<20	<20	<100	<20	<40	<20	<20	<20	<20
	9/7/95	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5
	*12/15/95	<2/<2	<4/<4	<2/<2	<2/<2	<2/<2	<2/<2	<2/<2	<2/<2	<2/<2	<2/<2
	3/04/96	<40	<40	<20	<20	<20	<20	<20	<20	<20	<20

1 * Duplicate sample also analyzed. 2 - Not Detected (Detection Limit not specified)

TABLE 3
SUMMARY OF GROUNDWATER ANALYTICAL DATA - MINOR CONSTITUENTS
GROUNDWATER MONITORING DATA SUMMARY REPORT
FIRST QUARTER 1996
DOUGLAS AIRCRAFT C-6 FACILITY
TORRANCE, CA

COMPOUNDS DETECTED BY EPA METHOD 8240 OR EPA METHOD 8240/8260 - All results in ug/l.

WELL I.D.	SAMPLE DATE	Acetone	Total Xylenes	Trichloro-fluoromethane	Methylene Chloride	Carbon Tetra-Chloride	1,1,2-TCA	PCE	Carbon Disulfide	Ethyl-Benzene	1,2-DCA
WCC-2S	11/02/87	-	-	-	-	-	-	-	-	-	-
	11/12/87	-	-	-	-	-	-	-	-	-	-
	7/13/89	-	-	-	-	-	-	-	-	-	-
	8/23/89	-	-	-	-	-	-	-	-	-	-
	11/19/91	-	-	-	-	-	-	-	-	-	-
	06/16/92	<10	-	-	-	-	-	-	-	-	-
	*09/22/92	<5/<5	<1/<1	<1/1	11/9	<1/<1	<1/<1	<1/<1	<1/<1	<1/<1	<1/<1
	*12/08/92	6/<5	<1/<1	<1/<1	5/2	<1/<1	<1/<1	<1/<1	<1/<1	<1/<1	<1/<1
	*03/17/93	<10/<10	<2/<2	<5/<5	<10/<10	<5/<5	<2/<2	<2/<2	<5/<5	<2/<2	<2/<2
	06/07/93	<40	<2	<2	<4	<2	<4	<2	<2	<2	<2
	08/24/93	<40	<2	<2	<4	<2	<4	<2	<2	<2	<2
	11/19/93	<40	<2	<2	<10	<2	<4	<2	<2	<2	<2
	2/24/94	<40	<2	<2	<10	<2	<4	<2	<2	<2	<2
	6/10/94	<40	<6	<2	<20	<2	<4	<2	<2	<2	<2
	9/8/94	<40	<6	<2	<10	<2	<4	<2	<2	<2	<2
	12/22/94	<40	<4	<2	<10	<2	<4	<2	<2	<2	<2
	3/13/95	<40	<4	<2	<10	<2	<4	<2	<2	<2	<2
	6/12/95	<40	<2	<2	<10	<2	<4	<2	<2	<2	<2
	9/6/95	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5
	12/15/95	<2	<4	<2	<2	<2	<2	<2	<2	<2	<2
	3/1/96	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5
WCC-3S	11/02/87	-	-	-	-	-	-	-	-	-	-
	11/12/87	-	-	-	-	-	-	-	-	-	-
	07/13/89	-	-	-	-	-	-	-	-	-	-
	08/23/89	-	-	-	-	-	-	-	-	-	-
	11/14/91	-	-	-	-	-	-	-	-	-	-
	06/17/92	<30,000	-	-	-	-	-	-	-	-	-
	09/23/92	<3,000	<500	<500	900	<500	<500	<500	<500	<500	<500
	12/09/92	<3,000	<500	<500	<500	<500	<500	<500	<500	<500	<500
	*03/18/93	<50/<50	120/110	<25/<25	<50/<50	<25/<25	55/60	<10/<10	<25/<25	<10/<10	100/95
	06/08/93	<2,000	<100	<100	<200	<100	<200	<100	<100	<100	<100
	*08/25/93	<8,000/<200	<400/154	<400/<10	<800/<50	<400/<10	<800/52	<400/<10	<400/<10	<400/21	<400/86
	11/19/93	<4,000	<200	<200	<1,000	<200	<200	<200	<200	<200	<200
	2/24/94	<4,000	<200	<200	<1,000	<200	<400	<200	<200	<200	<200
	6/13/94	<4000	<600	<200	<1000	<200	<400	<200	<200	<200	<200
	*9/9/94	<10000/<1000	<1500/1500	<500/<500	<2500/<2500	<500/<500	<1000/<1000	<500/<500	<500/<500	<500/<500	<500/<500
	12/22/94	<4,000	<400	<200	<1,000	<200	<400	<200	<200	<200	<200
	3/14/95	<4,000	<400	<200	<1,000	<200	<400	<200	<200	<200	<200
	6/13/95	<8,000	<400	<400	<2,000	<400	<800	<400	<400	<400	<400
	9/7/95	39	137	<5	23	<5	64	<5	<5	18	99
	12/16/95	<2	42	<2	<2	<2	22	<2	<2	8	41
	3/4/96	<100	<100	<50	<50	<50	<50	<50	<50	<50	<50

1 * Duplicate sample also analyzed. 2 - Not Detected (Detection Limit not specified)

TABLE 3
SUMMARY OF GROUNDWATER ANALYTICAL DATA - MINOR CONSTITUENTS
GROUNDWATER MONITORING DATA SUMMARY REPORT
FIRST QUARTER 1996
DOUGLAS AIRCRAFT C-6 FACILITY
TORRANCE, CA

COMPOUNDS DETECTED BY EPA METHOD 8240 OR EPA METHOD 8240/8260 - All results in ug/l.

WELL I.D.	SAMPLE DATE	Acetone	Total Xylenes	Trichloro-fluoromethane	Methylene Chloride	Carbon Tetra-Chloride	1,1,2-TCA	PCE	Carbon Disulfide	Ethyl-Benzene	1,2-DCA
WCC-4S	11/02/87	-	-	-	-	-	-	-	-	-	-
	11/12/87	-	-	-	-	-	-	-	-	-	-
	7/13/89	-	-	-	-	-	-	-	-	-	-
	08/23/89	-	-	-	-	-	-	-	-	-	-
	11/18/91	-	-	-	-	-	-	-	-	-	-
	06/17/92	<150	-	-	-	-	-	-	-	-	-
	09/23/92	<50	<10	<10	20	<10	<10	<10	<10	<10	<10
	12/08/92	<50	<10	<10	50	<10	<10	<10	<10	<10	<10
	03/17/93	<10	<2	<5	<10	<5	<2	<2	<5	<2	<2
	06/08/93	<200	<10	<10	<40	<10	<20	<10	<10	<10	<10
	08/25/93	<200	<10	<10	<20	<10	<20	<10	<10	<10	<10
	11/19/93	<80	<4	<4	<20	<4	<8	<4	<4	<4	<4
	2/24/94	<80	<4	<4	<20	<4	<8	<4	<4	<4	<4
	6/13/94	<80	<12	<4	<20	<4	<8	<4	<4	<4	<4
	9/9/94	<400	<60	<20	<100	<20	<40	<20	<20	<20	<20
	12/22/94	<200	<20	<10	<50	<10	<20	<10	<10	<10	<10
	3/14/95	<80	<8	<4	<20	<4	<8	<4	<4	<4	<4
	6/13/95	<130	<6.6	<6.6	<33	<6.6	<13	<6.6	<6.6	<6.6	<6.6
	9/7/95	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5
	12/15/95	<2	<4	<2	<2	<2	<2	<2	<2	<2	<2
	3/4/96	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5
WCC-5S	11/30/87	-	-	-	-	-	-	-	-	-	-
	01/08/88	-	-	-	-	-	-	-	-	-	-
	*07/13/89	-	-	-	-	-	-	-	-	-	-
	08/23/89	-	-	-	-	-	-	-	-	-	-
	11/19/91	-	-	-	-	-	-	-	-	-	-
	06/15/92	<10	-	-	-	-	-	-	-	-	-
	09/21/92	<5	<1	3	8	<1	<1	<1	<1	<1	<1
	12/07/92	<5	<1	<1	3	<1	<1	<1	<1	<1	<1
	03/16/93	<10	<2	<5	<10	<5	<2	<2	<5	<2	<2
	06/07/93	<40	<2	<2	<4	<2	<2	<4	<2	<2	<2
	08/24/93	<40	<2	<2	<4	<2	<4	<2	<2	<2	<2
	11/18/93	<40	<2	<2	<10	<2	<4	<2	<2	<2	<2
	2/23/94	<40	<2	<2	<10	<2	<4	<2	4	<2	<2
	*6/10/94	<40/<40	<6/<6	<2/<2	<20/<20	<2/<2	<4/<4	<2/<2	<2/<2	<2/<2	<2/<2
	9/8/94	<40	<6	<2	<10	<2	<4	<2	<2	<2	<2
	12/21/94	<40	<4	<2	<10	<2	<4	<2	<2	<2	<2
	3/13/95	<40	<4	<2	<10	<2	<4	<2	<2	<2	<2
	6/12/95	<40	<2	<2	<10	<2	<4	<2	2.2	<2	<2
	9/6/95	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5
	12/12/95	<2	<4	<2	<2	<2	<2	<2	<2	<2	<2
	2/29/96	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5

1 * Duplicate sample also analyzed. 2 - Not Detected (Detection Limit not specified)

TABLE 3
SUMMARY OF GROUNDWATER ANALYTICAL DATA - MINOR CONSTITUENTS
GROUNDWATER MONITORING DATA SUMMARY REPORT
FIRST QUARTER 1996
DOUGLAS AIRCRAFT C-6 FACILITY
TORRANCE, CA

COMPOUNDS DETECTED BY EPA METHOD 8240 OR EPA METHOD 8240/8260 - All results in ug/l.

WELL I.D.	SAMPLE DATE	Acetone	Total Xylenes	Trichloro-fluoromethane	Methylene Chloride	Carbon Tetra-Chloride	1,1,2-TCA	PCE	Carbon Disulfide	Ethyl-Benzene	1,2-DCA
WCC-6S	10/06/89	-	-	-	-	-	-	-	-	-	-
	11/16/91	-	-	-	-	-	-	-	-	-	-
	06/17/92	<3,000	-	-	-	-	-	-	-	-	-
	09/23/92	78	26	<1	5	<1	96	<1	<1	5	5
	*12/09/92	<300/<500	<50/<100	<50/<100	100/200	<50/<100	60/<100	<50/<10	<50/<100	<50/<10	<80/<10
	03/17/93	<50	20	<25	<50	<25	<10	<10	<25	<10	50
	06/08/93	<2,000	<100	<100	<200	<100	<200	<100	<100	<100	<100
	08/25/93	<2,000	<100	<100	<200	<100	<200	<100	<100	<100	<100
	11/19/93	<200	<10	<10	<50	<10	<20	<10	<10	<10	37
	2/24/94	230	58	<10	<50	<10	74	<10	<10	10	47
	*6/13/94	<200/<2000	51/<300	<50/<100	<50/<500	<10/<100	69/<200	<10/<100	<10/<10	<10/<100	41/<100
	9/9/94	Not sampled; well head obstructed.									
	12/22/94	<4,000	<400	<200	<1,000	<200	<400	<200	<200	<200	<200
	3/14/95	<400	<40	<20	<100	<20	<40	<20	<20	<20	26
	6/13/95	<400	<20	<20	<100	<20	60	<20	<20	<20	51
	*9/7/95	<10/<10	21/23	<5/<5	<5/<5	<5/<5	48/52	<5/<5	<5/<5	<5/<5	39/55
	12/16/95	<2	28	<2	<2	<2	76	<2	<2	5	41
	3/4/96	<100	<100	<50	<50	<50	61	<50	<50	<50	<50
WCC-7S	07/13/89	-	-	-	-	-	-	-	-	-	-
	08/23/89	-	-	-	-	-	-	-	-	-	-
	11/18/91	-	-	-	-	-	-	-	-	-	-
	06/17/92	<30	-	-	-	-	-	-	-	-	-
	09/23/92	<30	<5	<5	10	<5	<5	<5	<5	<5	<5
	12/08/92	<30	<5	<5	10	<5	<5	<5	<5	<5	<5
	03/17/93	<10	<5	<5	<10	<5	<2	<2	<5	<2	<2
	06/07/93	<40	<2	<2	<4	<2	<4	<2	<2	<2	<2
	08/25/93	<80	<4	<4	31	<4	<8	<4	<4	<4	<4
	11/19/93	<40	<2	<2	<10	<2	<4	<2	<2	<2	<2
	2/24/94	<40	<2	<2	<10	<2	<4	<2	<2	<2	<2
	6/13/94	<40	<6	<2	<10	<2	<4	<2	<2	<2	<2
	9/8/94	<40	<6	<2	<10	<2	<4	<2	<2	<2	<2
	12/22/94	<40	<4	<2	<10	<2	<4	<2	<2	<2	<2
	3/14/95	<40	<4	<2	<10	<2	<4	<2	<2	<2	<2
	*6/13/95	<40/<40	<2/<2	<2/<2	<10/<10	<2/<2	<4/<4	<2/<2	8.7/37	<2/<2	<2/<2
	9/7/95	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5
	12/15/95	<2	<4	<2	<2	<2	<2	<2	<2	<2	<2
	3/1/96	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5

1 * Duplicate sample also analyzed. 2 - Not Detected (Detection Limit not specified)

TABLE 3
SUMMARY OF GROUNDWATER ANALYTICAL DATA - MINOR CONSTITUENTS
GROUNDWATER MONITORING DATA SUMMARY REPORT
FIRST QUARTER 1996
DOUGLAS AIRCRAFT C-6 FACILITY
TORRANCE, CA

COMPOUNDS DETECTED BY EPA METHOD 8240 OR EPA METHOD 8240/8260 - All results in ug/l.

WELL I.D.	SAMPLE DATE	Acetone	Total Xylenes	Trichloro-fluoromethane	Methylene Chloride	Carbon Tetra-Chloride	1,1,2-TCA	PCE	Carbon Disulfide	Ethyl-Benzene	1,2-DCA
WCC-8S	07/13/89	-	-	-	-	-	-	-	-	-	-
	08/23/89	-	-	-	-	-	-	-	-	-	-
	11/15/91	-	-	-	-	-	-	-	-	-	-
	*06/17/92	<150/<300	-	-	-	-	-	-	-	-	-
	09/23/92	<100	<20	<20	40	<20	<20	<20	<20	<20	<20
	12/08/92	<100	<20	<20	30	<20	<20	<20	<20	<20	<20
	03/17/93	<10	<2	<5	<10	<5	<2	<2	<5	<2	<2
	06/08/93	<400	<20	<20	<100	<20	<40	<20	<20	<20	<20
	08/25/93	<400	<20	<20	<40	<20	<40	<20	<20	<20	<20
	11/19/93	<400	<20	<20	<100	<20	<40	<20	<20	<20	<20
	2/24/94	<400	<20	<20	<100	<20	<40	<20	<20	<20	<20
	6/13/94	<800	<120	<40	<200	<40	<80	<40	<40	<40	<40
	9/9/94	<1000	<150	<50	<250	<50	<100	<50	<50	<50	<50
	12/22/94	<400	<40	<20	<100	<20	<40	<20	<20	<20	<20
	3/14/95	<800	<80	<40	<200	<40	<80	<40	<40	<40	<40
	6/13/95	<800	<40	<40	<200	<40	<80	<40	<40	<40	<40
	9/7/95	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5
	12/15/95	<2	<4	<2	<2	<2	<2	<2	<2	<2	<2
	*3/01/96	<40/<40	<40/<40	<20/<20	<20/<20	<20/<20	<20/<20	<20/<20	<20/<20	<20/<20	<20/<20
WCC-9S	10/06/89	-	-	-	-	-	-	-	-	-	-
	11/19/91	-	-	-	-	-	-	-	-	-	-
	06/15/92	<30	-	-	-	-	-	-	-	-	-
	09/21/92	<5	<1	<1	10	<1	<1	<1	<1	<1	<1
	12/07/92	<5	<1	<1	3	<1	<1	<1	<1	<1	<1
	03/16/93	<10	<2	<5	<10	<5	<2	<2	<5	<2	<2
	*06/07/93	<40/<40	<2/<2	<2/<2	<4/<4	<2/<2	<4/<4	<2/<2	<2/<2	<2/<2	<2/<2
	08/24/93	<40	<2	<2	<4	<2	<4	<2	<2	<2	<2
	11/18/93	<40	<2	<2	<10	<2	<4	<2	<2	<2	<2
	2/24/94	<40	<4	<2	<10	<2	<4	<2	<2	<2	<2
	6/10/94	<40	<6	<2	<20	<2	<4	<2	<2	<2	<2
	9/8/94	<40	<6	<2	<10	<2	<4	<2	<2	<2	<2
	*12/21/94	<40/<40	<4/<4	<2/<2	<10/<10	<2/<2	<4/<4	<2/<2	<2/<2	<2/<2	<2/<2
	3/13/95	<40	<4	<2	<10	<2	<4	<2	<2	<2	<2
	*6/12/95	<40/<40	<2/<2	<2/<2	<10/<10	<2/<2	<4/<4	<2/<2	<2/<2	<2/<2	<2/<2
	9/6/95	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5
	12/12/95	<2	<4	<2	<2	<2	<2	<2	<2	<2	<2
	2/29/96	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5

1 * Duplicate sample also analyzed. 2 - Not Detected (Detection Limit not specified)

TABLE 3
SUMMARY OF GROUNDWATER ANALYTICAL DATA - MINOR CONSTITUENTS
GROUNDWATER MONITORING DATA SUMMARY REPORT
FIRST QUARTER 1996
DOUGLAS AIRCRAFT C-6 FACILITY
TORRANCE, CA

COMPOUNDS DETECTED BY EPA METHOD 8240 OR EPA METHOD 8240/8260 - All results in ug/l.

WELL I.D.	SAMPLE DATE	Acetone	Total Xylenes	Trichloro-fluoromethane	Methylene Chloride	Carbon Tetra-Chloride	1,1,2-TCA	PCE	Carbon Disulfide	Ethyl-Benzene	1,2-DCA
WCC-10S	*07/13/89	-	-	-	-	-	-	-	-	-	-
	08/23/89	-	-	-	-	-	-	-	-	-	-
	11/20/91	-	-	-	-	-	-	-	-	-	-
	06/16/92	35	-	-	-	-	-	-	-	-	-
	*09/21/92	<5/<5	<1/<1	<1/<1	8/8	1/1	<1/<1	<1/<1	<1/<1	<1/<1	<1/<1
	12/8/92	<5	<1	<1	3	<1	<1	<1	<1	<1	<1
	03/16/93	<10	<2	<5	<10	<5	<2	<2	<5	<2	<2
	06/07/93	<40	<2	<2	<4	<2	<4	<2	<2	<2	<2
	08/25/93	<40	<2	<2	<10	<2	<4	<2	<2	<2	<2
	11/19/93	<40	<2	<2	<10	<2	<4	<2	<2	<2	<2
	2/23/94	<40	<2	<2	<10	<2	<4	<2	<2	<2	<2
	6/10/94	<40	<6	<2	<20	<2	<4	<2	<2	<2	<2
	9/8/94	<40	<6	<2	<10	<2	<4	<2	<2	<2	<2
	*12/22/94	<40/<40	<4/<4	<2/<2	<10/<10	<2/<2	<4/<4	<2/<2	<2/<2	<2/<2	<2/<2
	*3/13/95	<40/<40	<4/<4	<2/<2	<10/<10	<2/<2	<4/<4	2.4/<2	<2/<2	<2/<2	<2/<2
	6/12/95	<40	<2	<2	<10	<2	<4	<2	17	<2	<2
	9/6/95	<10	<5	<5	<5	<5	<5	<5	14	<5	<5
	12/16/95	<2	<4	<2	<2	<2	<2	<2	<2	<2	<2
	3/1/96	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5
WCC-11S	11/15/91	-	-	-	-	-	-	-	-	-	-
	06/16/92	<10	-	-	-	-	-	-	-	-	-
	09/21/92	<5	<1	2	9	<1	<1	<1	<1	<1	<1
	12/08/92	<5	<1	<1	4	<1	<1	<1	<1	<1	<1
	03/16/93	<10	<2	<5	<10	<5	<2	<2	<5	<2	<2
	06/07/93	<40	<2	<2	<4	<2	<4	<2	<2	<2	<2
	08/24/93	<40	<2	<2	<4	<2	<4	<2	<2	<2	<2
	*11/19/93	<40/<40	<2/<2	<2/<4	<10/<10	<2/<2	<4/<4	<2/<2	<2/<2	<2/<2	<2/<2
	2/23/94	<40	<2	<2	<10	<2	<4	<2	<2	<2	<2
	6/10/94	<40	<6	<2	<20	<2	<4	<2	<2	<2	<2
	*9/8/94	<40/<40	<6/<6	<2/<2	<10/<10	<2/<2	<4/<4	<2/<2	<2/<2	<2/<2	<2/<2
	12/21/94	<40	<4	<2	<10	<2	<4	<2	<2	<2	<2
	3/13/95	<40	<4	<2	<10	<2	<4	<2	<2	<2	<2
	6/12/95	<40	<2	<2	<10	<2	<4	<2	<2	<2	<2
	*9/6/95	<10/<10	<5/<5	<5/<5	<5/<5	<5/<5	<5/<5	<5/<5	<5/<5	<5/<5	<5/<5
	12/15/95	<2	<4	<2	<2	<2	<2	<2	<2	<2	<2
	3/01/96	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5

1 * Duplicate sample also analyzed. 2 - Not Detected (Detection Limit not specified)

TABLE 3
SUMMARY OF GROUNDWATER ANALYTICAL DATA - MINOR CONSTITUENTS
GROUNDWATER MONITORING DATA SUMMARY REPORT
FIRST QUARTER 1996
DOUGLAS AIRCRAFT C-6 FACILITY
TORRANCE, CA

COMPOUNDS DETECTED BY EPA METHOD 8240 OR EPA METHOD 8240/8260 - All results in ug/l.

WELL I.D.	SAMPLE DATE	Acetone	Total Xylenes	Trichloro-fluoromethane	Methylene Chloride	Carbon Tetra-Chloride	1,1,2-TCA	PCE	Carbon Disulfide	Ethyl-Benzene	1,2-DCA
WCC-12S	11/18/91	-	-	-	-	-	-	-	-	-	-
	*06/16/92	<10/<10	-	-	-	-	-	-	-	-	-
	09/22/92	<5	<1	4	7	<1	<1	<1	<1	<1	<1
	12/08/92	<30	<5	<5	20	<5	<5	<5	<5	<5	<5
	03/17/93	<10	<2	<5	<10	<5	<2	<2	<5	<2	<2
	06/07/93	<40	<2	<2	<4	<2	<4	<2	<2	<2	<2
	08/25/93	<80	<4	<4	<8	<4	<8	<4	<4	<4	<4
	11/19/93	<40	<2	<2	<10	<2	<4	<2	<2	<2	<2
	2/24/94	<40/<40	<2/<2	<2<2	<10/<10	<2/<2	<4/<4	<2/<2	<2/<2	<2/<2	<2/<2
	6/13/94	<40	<6	<2	<10	<2	<4	<2	<2	<2	<2
	9/9/94	<40	<6	<2	<10	<2	<4	<2	<2	<2	<2
	12/22/94	<40	<4	<2	<10	<2	<4	<2	<2	<2	<2
	3/14/95	<40	<4	<2	<10	<2	<4	<2	<2	<2	<2
	6/12/95	<40	<2	<2	<10	<2	<4	<2	<2	<2	<2
	9/6/95	<10	<5	<5	<5	<5	<5	<5	33	<5	<5
	12/15/95	<2	<4	<2	<2	<2	<2	<2	<2	<2	<2
	3/01/96	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5
DAC-P1	10/09/89	<1,000	-	-	-	-	-	-	-	-	-
	06/17/92	<30	-	-	-	-	-	-	-	-	-
	*06/23/92	<5/<5	<1/<1	1/1	4/4	4/4	9/9	13/13	<1/<1	<1/<1	<1/<1
	12/09/92	<3,000	<500	<500	2,000	<500	<500	<500	<500	<500	<500
	03/18/93	<10	<2	<5	<10	<5	5	10	<5	<2	<2
	06/08/93	<2,000	<100	<100	<200	<100	<200	<100	<100	<100	<100
	08/25/93	<4,000	<200	<200	<400	<200	<400	<200	<200	<200	<200
	11/19/93	<400	<20	<20	<100	<20	<40	<20	<20	<20	<20
	2/24/94	<400	<20	<20	<100	<20	<40	<20	<20	<20	<20
	6/13/94	<400	<60	<20	<100	<20	<40	<20	<20	<20	<20
	9/9/94	<4000	<600	<200	<1000	<200	<400	<200	<200	<200	<200
	12/22/94	<4,000	<400	<200	<1,000	<200	<400	<200	<200	<200	<200
	3/14/95	<4,000	<400	<200	<1,000	<200	<400	<200	<200	<200	<200
	6/13/95	<4,000	<200	<200	<1,000	<200	<400	<200	<200	<200	<200
	9/7/95	<10	<5	<5	<5	<5	<5	17	<5	<5	<5
	12/16/95	<2	<4	<2	<2	<2	4	11	<2	<2	<2
	*3/04/96	<200/<200	<200/<200	<100/<100	<100/<100	<100/<100	<100/<100	<100/<100	<100/<100	<100/<100	<100/<100

1 * Duplicate sample also analyzed. 2 - Not Detected (Detection Limit not specified)

TABLE 3
SUMMARY OF GROUNDWATER ANALYTICAL DATA - MINOR CONSTITUENTS
GROUNDWATER MONITORING DATA SUMMARY REPORT
FIRST QUARTER 1996
DOUGLAS AIRCRAFT C-6 FACILITY
TORRANCE, CA

COMPOUNDS DETECTED BY EPA METHOD 8240 OR EPA METHOD 8240/8260 - All results in ug/l.

WELL I.D.	SAMPLE DATE	Acetone	Total Xylenes	Trichloro-fluoromethane	Methylene Chloride	Carbon Tetra-Chloride	1,1,2-TCA	PCE	Carbon Disulfide	Ethyl-Benzene	1,2-DCA
WCC-1D	07/25/89	-	-	-	-	-	-	-	-	-	-
	08/23/89	-	-	-	-	-	-	-	-	-	-
	11/15/91	-	-	-	-	-	-	-	-	-	-
	*06/15/92	<50/<50	-	-	-	-	-	-	-	-	-
	09/22/92	<5	<1	4	11	<1	<1	<1	<1	<1	<1
	*12/07/92	<5/<5	<1/<1	<1/<1	2/2	<1/<1	<1/<1	<1/<1	<1/<1	<1/<1	<1/<1
	03/16/93	<10	<2	<5	<10	<5	<2	<2	<5	<2	<2
	*06/08/93	<200/<80	<10/<4	<10/<4	<20/<10	<10/<4	<20/<8	<10/<4	<10/<4	<10/<4	<10/<4
	08/24/93	<40	<2	<2	<4	<2	<4	<2	<2	<2	<2
	11/18/93	<40	<2	<2	<10	<2	<4	<2	<2	<2	<2
	2/23/94	<40	<2	<2	<10	<2	<4	<2	<2	<2	<2
	6/10/94	<40	<6	<2	<20	<2	<4	<2	<2	<2	<2
	9/8/94	<40	<6	<2	<10	<2	<4	<2	<2	<2	<2
	12/22/94	<40	<4	<2	<10	<2	<4	<2	<2	<2	<2
	3/13/95	<80	<8	<4	<20	<4	<8	<4	<4	<4	<4
	6/13/95	<40	<2	<2	<10	<2	<4	<2	3.1	<2	<2
	9/6/95	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5
	12/16/95	<2	<4	<2	<2	<2	<2	<2	<2	<2	<2
	*2/29/96	<10/<10	<10/<10	<5/<5	<5/<5	<5/<5	<5/<5	<5/<5	<5/<5	<5/<5	<5/<5
WCC-3D	07/25/89	-	-	-	-	-	-	-	-	-	-
	08/23/89	-	-	-	-	-	-	-	-	-	-
	11/14/91	-	-	-	-	-	-	-	-	-	-
	06/16/92	<30	-	-	-	-	-	-	-	-	-
	09/22/92	<5	<1	1	8	<1	<1	<1	<1	<1	<1
	12/07/92	<5	<1	<1	1	<1	<1	<1	<1	<1	<1
	*03/16/93	<10/<10	<2/<2	<5/<5	<10/<10	<5/<5	<2/<2	<2/<2	<5/<5	<2/<2	<2/<2
	06/08/93	<40	<2	<2	<4	<2	<4	<2	<2	<2	<2
	08/24/93	<40	<2	<2	<4	<2	<4	<2	<2	<2	<2
	*11/18/93	<40/<80	<2/<4	<2/<4	<10/<20	<2/<4	<4/<8	<2/<4	<2/<4	<2/<4	<2/<4
	2/23/94	<80	<4	<4	<20	<4	<8	<4	<4	<4	<4
	6/13/94	<200	<30	<10	<50	<10	<20	<10	<10	<10	<10
	9/9/94	<1000	<150	<50	<250	<50	<100	<50	<50	<50	<50
	12/21/94	<80	<8	<4	<20	<4	29	<4	<4	<4	<4
	*3/14/95	<800/<400	<80/<40	<40/<20	<200/<100	<40/<20	<80/<40	<40/61	<40/<20	<40/<20	<40/<20
	6/13/95	<200	<10	<10	<50	<10	<20	<10	<10	<10	<10
	9/7/95	<10	8	<5	<5	<5	35	<5	<5	<5	6
	12/16/95	<2	<4	<2	<2	<2	<2	<2	<2	<2	<2
	3/04/96	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5

Notes: ug/l = micrograms per liter
PCE = Tetrachloroethene
1,1,2-TCA=1,1,2-Trichloroethane
1,2-DCA = 1,2-Dichloroethane

1 * Duplicate sample also analyzed. 2 - Not Detected (Detection Limit not specified)

TABLE 4

SUMMARY OF GROUNDWATER ELEVATION DATA
FIRST QUARTER 1996
DOUGLAS AIRCRAFT C-6 FACILITY
TORRANCE, CALIFORNIA
K/J 944016.01

Observation Well	Reference Point[1] Elevation (Feet Above MSL)[2]	Water Level Elevation (Feet Above Mean Sea Level)								
		2/23/94	6/10/94	9/8/94	12/21/94	3/13/95	6/12/95	9/20/95	12/12/95	2/29/96
WCC-1S	50.7	-17.61	-17.23	-17.25	-17.12	-17.12	-16.53	-16.27	-16.05	-15.80
WCC-2S	50.59	-17.49	-17.07	-17.2	-17.17	-17.08	-16.37	-16.19	-15.86	-15.77
WCC-3S	51.19	-17.67	-17.19	-17.31	-17.28	-17.22	-16.58	-16.37	-16.06	-15.93
WCC-4S	49.69	-17.77	-17.32	-17.37	-17.31	-17.23	-16.61	-16.38	-16.16	-17.02
WCC-5S	48.22	-17.78	-17.33	-17.33	-17.25	-17.19	-16.56	-16.35	-16.14	-16.02
WCC-6S	50.95	-17.92	-17.48	NM[3]	-17.45	-17.36	16.75	-16.64[4]	-16.30	-16.17
WCC-7S	48.29	-18.22	-17.82	-17.8	-17.74	-17.54	-17.03	-16.82	-16.59	-16.46
WCC-8S	50.56	-17.49	-17.11	-17.14	-17.12	-17.29	-16.42	-16.16	-15.89	-15.76
WCC-9S	47.01	-18.09	-18.63	-19.08	-17.51	-17.41	-16.79	-16.64	-16.39	-16.49
WCC-10S	51.12	-17.07	-16.67	-17.03	-16.97	-16.56	-16.05	-15.89	-15.54	-15.22
WCC-11S	49.97	-16.96	-16.45	-16.58	-16.63	-16.48	-15.83	-15.59	-15.35	-15.19
WCC-12S	46.92	-18.13	-17.74	-17.79	-17.67	-17.63	-17.00	-16.79	-16.54	-16.40
DAC-P1	52.44	-16.74	-16.6	-16.48	-16.25	-16.41	-15.94	-15.66	-15.66	-15.40
WCC-1D	50.45	-17.83	-17.47	-17.66	-17.55	-17.36	-16.79	-16.60	-16.31	-16.15
WCC-3D	51.18	-18	-17.39	-17.47	-17.42	-17.27	-16.67	-16.47	-16.17	-15.95
MW-8[5]	49.09	NA[6]	NA	NA	NA	NA	NA	NA	NA	NA
MW-9[5]	48.67	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-18[5]	50.29	NA	NA	NA	NA	NA	-18.91	NA	NA	NA
MW-19[5]	46.55	NA	NA	NA	NA	NA	-18.06	NA	NA	NA

Notes:

1. Reference point is north side, top of well casing
2. Reference point elevation measured by Hargis + Associates, Inc.
3. Water Level Elevation not measured due to wellhead obstructions.
4. Well WCC-6S could not be opened on 20 September 1995. The water level elevation shown was measured on 6 September 1995.
5. Installed by Hargis + Associates, Inc. for Montrose Chemical Corporation
6. NA - Not Available

94401601 026

TABLE 4

SUMMARY OF GROUNDWATER ELEVATION DATA
FIRST QUARTER, 1996
DOUGLAS AIRCRAFT C-6 FACILITY
TORRANCE, CALIFORNIA

Observation Well	Reference Point[1] Elevation (Feet Above MSL)[2]	Water Level Elevation (Feet Above Mean Sea Level)								
		11/13/87[3]	10/18/89[4]	6/15/92	9/21/92	1/5/93	4/9/93	6/7/93	8/24/93	11/18/93
WCC-1S	50.7	-21.63	-19.48	-19.2	-19.42	-19.34	-18.79	-18.75	-18.25	-18
WCC-2S	50.59	-19.72	-19.06	-19.15	-19.41	-19.51	-18.64	-18.63	-18.15	-17.87
WCC-3S	51.19	-21.56	-19.42	-19.24	-19.52	-19.73	-18.83	-18.82	-18.36	-18.01
WCC-4S	49.69	-21.77	-19.59	-19.22	-19.49	-19.34	-18.86	-18.78	-18.37	-18.16
WCC-5S	48.22	NA[5]	-19.7	-19.13	-19.42	-19.32	-18.83	-18.78	-18.38	-18.13
WCC-6S	50.95	NA	-19.7	-19.4	-19.64	-19.5	-19.03	-18.97	-18.55	-18.32
WCC-7S	48.29	NA	-20.07	-19.63	-19.93	-19.76	-19.3	-19.23	-18.83	-18.6
WCC-8S	50.56	NA	-19.35	-19.11	-19.34	-19.19	-18.69	-18.61	-18.19	-17.89
WCC-9S	47.01	NA	-20.07	-19.44	-19.66	-19.56	-19.09	-19.09	-18.69	-18.42
WCC-10S	51.12	NA	-18.42	-18.94	-19.33	-19.1	-18.42	-18.33	-17.83	-17.54
WCC-11S	49.97	NA	NA	-17.62	-18.81	-18.69	-18.13	-18.04	-17.6	-17.36
WCC-12S	46.92	NA	NA	-19.6	-19.9	-19.74	-19.26	-19.2	-18.78	-18.58
DAC-P1	52.44	NA	NA	-17.76	-17.88	-18.02	-17.46	-17.38	-17.03	-16.76
WCC-1D	50.45	NA	-19.51	-19.55	-19.92	-19.61	-19.1	-19	-18.53	-18.34
WCC-3D	51.18	NA	-19.38	-19.39	-19.71	-20.52	-18.87	-18.85	-18.4	-18.18
MW-8[6]	49.09	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-9[6]	48.67	NA	NA	NA	NA	NA	NA	-20.58	NA	NA
MW-18[6]	50.29	NA	NA	NA	NA	NA	NA	-20.88	NA	NA
MW-19[6]	46.55	NA	NA	NA	NA	NA	NA	-20.13	NA	NA

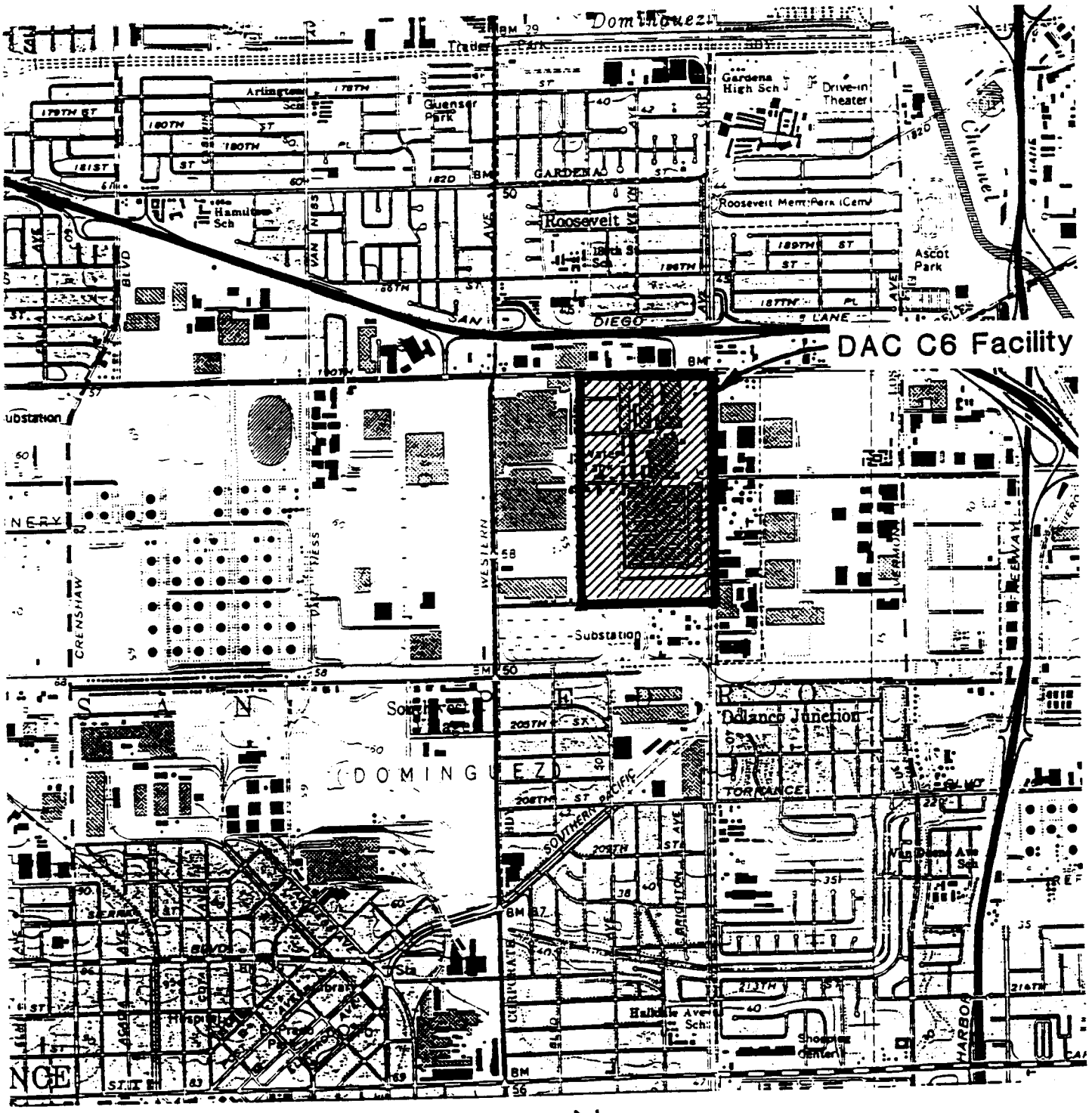
Notes:

1. Reference point is north side, top of well casing.
2. Reference point elevation measured by Hargis + Associates.
3. Data taken from Woodward-Clyde Consultants Phase II Report, May 1988.
4. Data talen from Woodward-Clyde Consultants Phase III Report, May 1990.
5. NA - Not Available
6. Installed by Hargis + Associates, Inc. for Montrose Chemical Corporation

94401601 026

BOE-C6-0017387

FIGURES



N

0 1,000 2,000 FEET

Base Map: U.S.G.S. 7.5 Minute Topographic Map, Torrance, California Quadrangle, 1981.

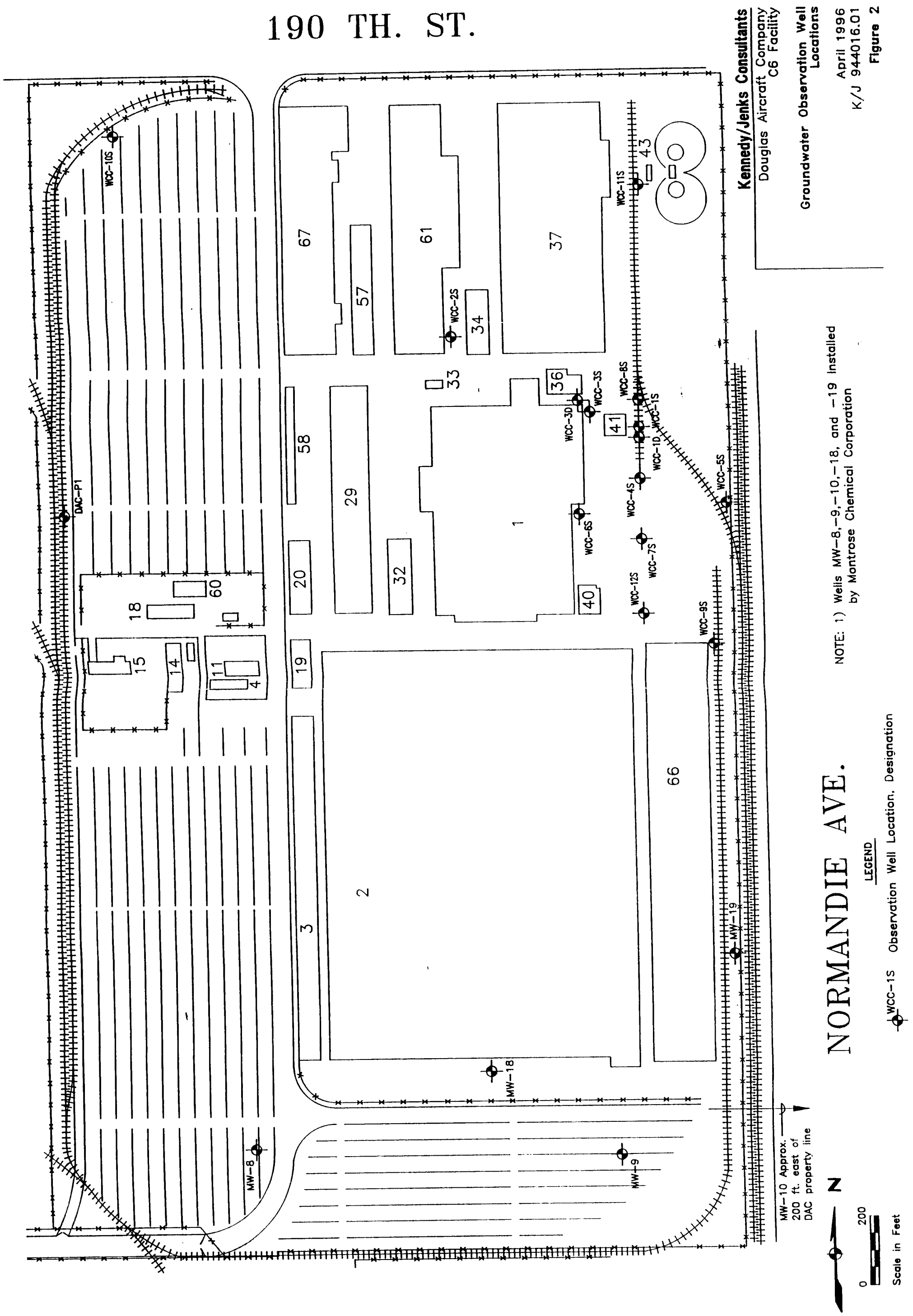
Kennedy/Jenks Consultants

Douglas Aircraft Company
C6 Facility

Site Vicinity Map

April 1996
K/J 944016.01

Figure 1


190 TH. ST.
NORMANDIE AVE.
Kennedy/Jenks Consultants
Douglas Aircraft Company
C6 Facility
Groundwater Observation Well Locations
April 1996
K/J 944016.01
Figure 2
NOTE: 1) Wells MW-8,-9,-10,-18, and -19 installed by Montrose Chemical Corporation
LEGEND
WCC-1S Observation Well Location, Designation
MW-10 Approx. 200 ft. east of DAC property line
N
0
200
Scale in Feet
WCC-10S
DAC-P1
WCC-2S
WCC-11S
WCC-3D
WCC-3S
WCC-8S
WCC-1D
WCC-1S
WCC-4S
WCC-5S
WCC-6S
WCC-7S
WCC-12S
WCC-9S
MW-8
MW-9
MW-18
MW-19
67
57
61
37
43
34
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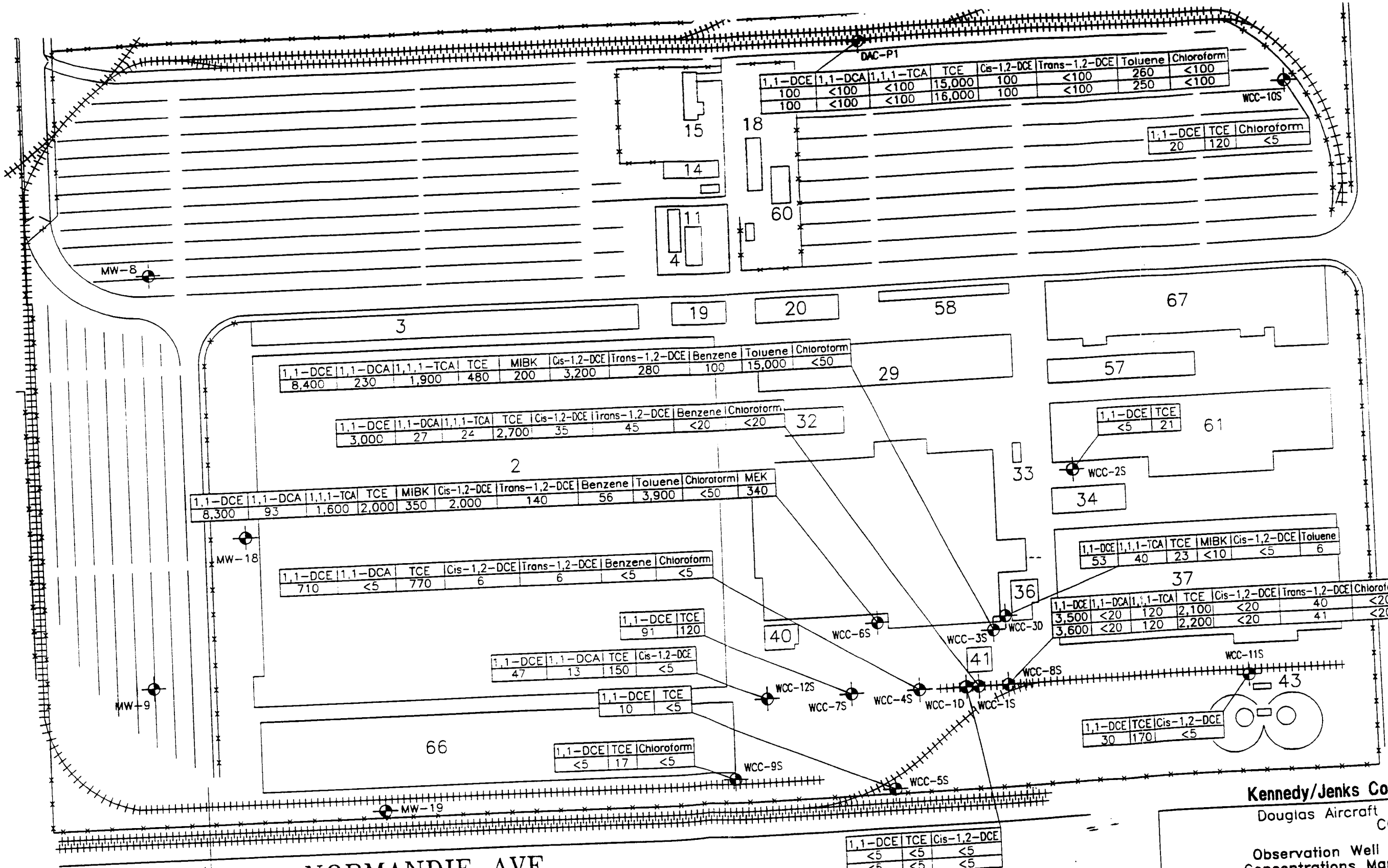
14
11
4
19
2
3
66



NOTES:

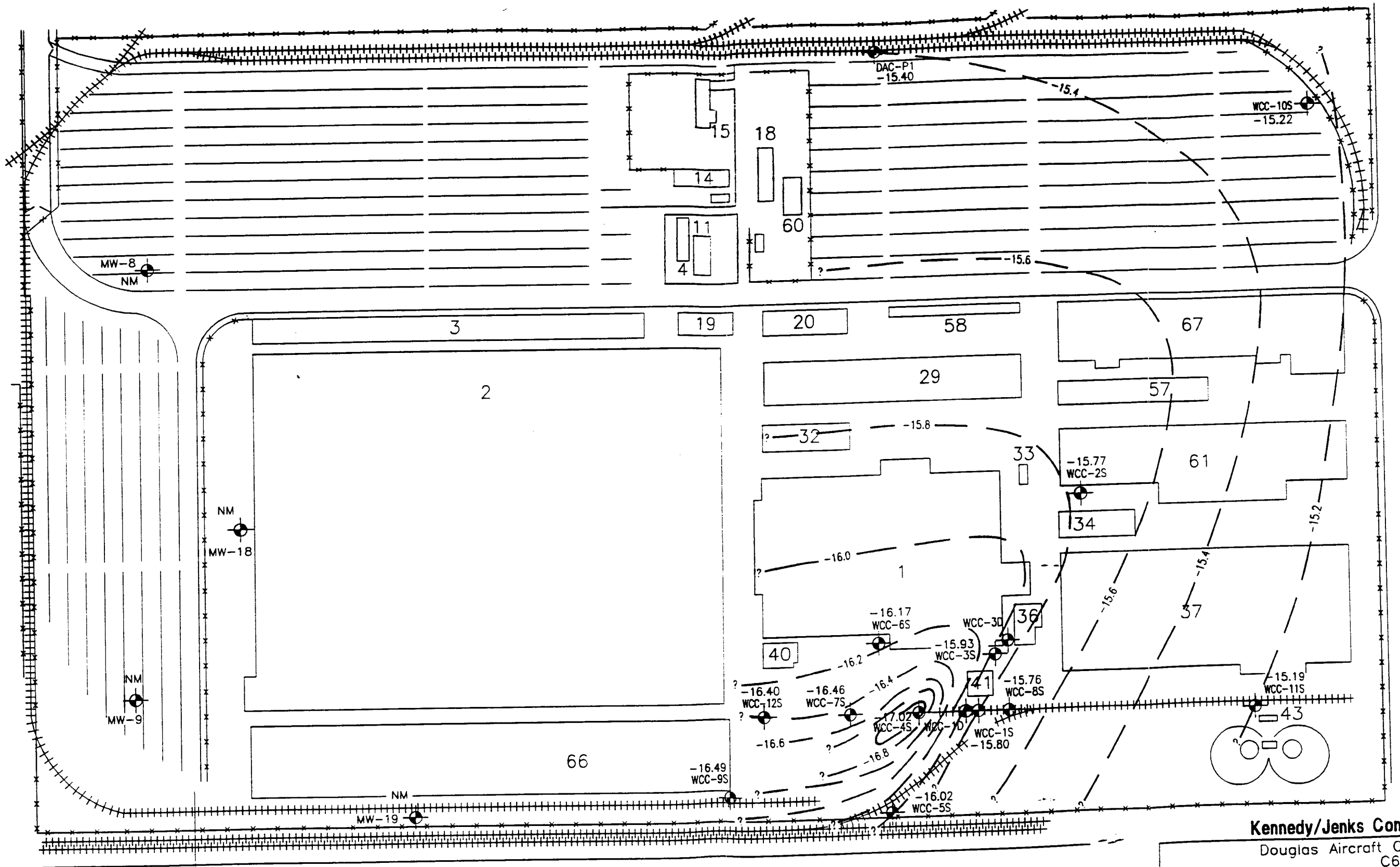
1. Samples Analyzed by EPA Method 8240/8260
2. All Results Reported in ug/l (ppb)
3. Wells MW-8,-9,-10,-18 and -19 installed by Montrose Chemical Corporation and are not sampled by Douglas Aircraft Co.
4. Duplicate samples were analyzed for wells WCC-8S, WCC-1D, and DAC-P1.
5. <5=compound not detected at a quantitation limit of 5 ug/l. Nondetects posted only for VOCs detected in the well in the previous sample round. Figure shows only major constituents listed in Table 2.

Kennedy/Jenks Consultants

Douglas Aircraft Company
C6 Facility

Observation Well Chemical Concentrations March 1996 Sampling Event

April 1996
K/J 944016.01
Figure 3



Kennedy/Jenks Consultants

Douglas Aircraft Company
C6 Facility

Estimated Groundwater Elevation Contour Map, Shallow Zone March 1996

April 1996
K/J 944016.01
Figure 4

NOTE: 1) Wells MW-8,-9,-10,-18, and -19 Installed by Montrose Chemical Corporation

2) Contour Interval = 0.2 feet

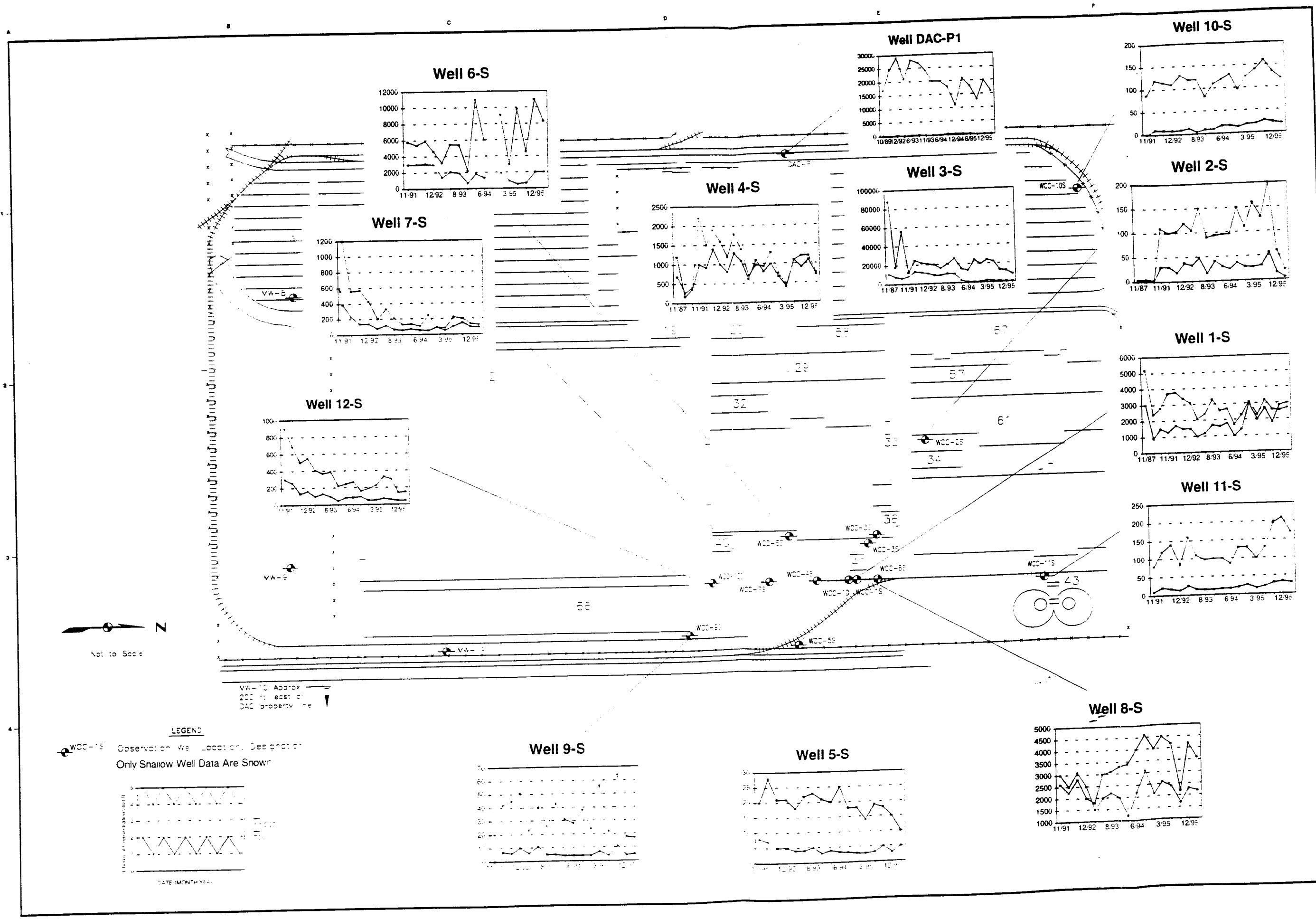
3) Wells WCC-3D and WCC-1D are screened across the deeper zone. Therefore, their water elevations are not included.

LEGEND

WCC-1S / -18.00 — Observation Well Location, Designation and groundwater elevation, feet MSL, measured 2/29/96.

NM — Not Measured

BOE-C6-0017392



BOE-C6-0017393

APPENDIX A

LABORATORY DATA SHEETS

Since 1878
Curtis & Tompkins, Ltd. General Analytical Laboratories
2495 Da Vinci, Irvine CA 92714 Phone 714-252-9700 Fax 714-252-9701

LABORATORY REPORT

Laboratory Number: **213841**

Date Received: **03/01/96**
Date Reported: **03/07/96**

Issued To: **KENNEDY/JENKS**
2151 MICHELSON DR.
SUITE 100
IRVINE, CA 92715
ATTN: SARAH BARTLING

Project I.D.: **944016.01**

Location: **DAC**

Report On: **SIX LIQUID SAMPLES ANALYZED AS SPECIFIED ON ATTACHED CHAIN OF CUSTODY**

This report certifies that the samples were received in good condition (i.e. intact, chilled, and/or preserved appropriately) and that strict chain of custody procedures were adhered to at all times. It further certifies that the methods of analysis used are in fact those listed within this report and that Curtis & Tompkins, Ltd. has current certification for all work performed in the laboratory. Exceptions to this statement are specifically noted in the analytical report or on the attached chain of custody.

Reviewed By: Roger Colvin Jan Marin

Since 1878
Curtis & Tompkins, Ltd. General Analytical Laboratories
2495 Da Vinci, Irvine CA 92714 Phone 714-252-9700 Fax 714-252-9701

LABORATORY REPORT

Laboratory Number: **213838**

Date Received: **03/01/96**
Date Reported: **03/12/96**

Issued To: **KENNEDY/JENKS**
2151 MICHELSON DR.
SUITE 100
IRVINE, CA 92715
ATTN: SARAH BARTLING

Project I.D.: **944016.01**

Location: **DAC**

Report On: **NINE LIQUID SAMPLES ANALYZED AS SPECIFIED ON ATTACHED CHAIN OF CUSTODY**

This report certifies that the samples were received in good condition (i.e. intact, chilled, and/or preserved appropriately) and that strict chain of custody procedures were adhered to at all times. It further certifies that the methods of analysis used are in fact those listed within this report and that Curtis & Tompkins, Ltd. has current certification for all work performed in the laboratory. Exceptions to this statement are specifically noted in the analytical report or on the attached chain of custody.

Reviewed By: Roger Cohen Jan Marin

Since 1878
Curtis & Tompkins, Ltd. General Analytical Laboratories
2495 Da Vinci, Irvine CA 92714 Phone 714-252-9700 Fax 714-252-9701

ABORATORY REPORT

Laboratory Number: **213865**

Date Received: **03/06/96**
Date Reported: **03/12/96**

Issued To: **KENNEDY/JENKS**
2151 MICHELSON DR.
SUITE 100
IRVINE, CA 92715
ATTN: SARAH BARTLING

Project I.D.: **944016.01**

Location: **DAC**

Report On: **NINE LIQUID SAMPLES ANALYZED AS SPECIFIED ON ATTACHED CHAIN OF CUSTODY**

This report certifies that the samples were received in good condition (i.e. intact, chilled, and/or preserved appropriately) and that strict chain of custody procedures were adhered to at all times. It further certifies that the methods of analysis used are in fact those listed within this report and that Curtis & Tompkins, Ltd. has current certification for all work performed in the laboratory. Exceptions to this statement are specifically noted in the analytical report or on the attached chain of custody.

Reviewed By: Roger Cohen Jan Marin

Berkeley *Irvine*

ABBREVIATIONS

BS/BSD - Blank Spike / Blank Spike Duplicate

BTEX - Benzene, Toluene, Ethyl Benzene, and Total Xylenes.

CCR - California Code of Regulations.

DHS - California Department of Health Services.

EPA - United States Environmental Protection Agency.

LCS - Laboratory Control Spike

LUFT - Leaking Underground Fuel Tank.

MDL - Method Detection Limit

NA - Not Applicable.

NC - Not Calculable

ND - Not Detected at or above the defined detection limit.

PQL - Practical Quantitation Limit

RPD - Relative percent difference.

STLC - Soluble Threshold Limit Concentration.

Surr. - Surrogates.

TCLP - Toxicity Characteristic Leaching Procedure.

TEH - Total Extractable Petroleum Hydrocarbons.

Title 26 - Title 26 of the California Code of Regulations (CCR).

TR~ - Trace, estimated value .

TTLC - Total Threshold Limit Concentration.

TVH - Total Volatile Hydrocarbons.

WET - Waste Extraction Test.

UNITS

cm3 - Cubic centimeter
Kg - kilogram.
L - Liter.
mg - Milligrams.
M3 - Cubic meter.

1umhos/cm - uS/cm - Micro Siemens/centimeter
ppb - Parts per billion.
ppm - Parts per million.
ug - Micrograms.
ppbv - Parts per billion per unit volume

OLATILE ORGANICS

ent I.D.: WCC1S-14
oratory I.D.: 213865-002
ent: KENNEDY/JENKS

Matrix: Liquid
Method: EPA 8260
Extraction: EPA 5030 Purge & Trap

Compound	Result (ug/L)	Detection Limit	Analytical Notes	Method Blank	Detection Limit
etone	ND	40	a	ND	10
nzene	ND	20	a	ND	5
omobenzene	ND	20	a	ND	5
omochloromethane	ND	20	a	ND	5
omodichloromethane	ND	20	a	ND	5
omoform	ND	20	a	ND	5
omomethane	ND	40	a	ND	10
Butanone	ND	40	a	ND	10
Butylbenzene	ND	20	a	ND	5
c-Butylbenzene	ND	20	a	ND	5
t-Butylbenzene	ND	20	a	ND	5
rbon disulfide	ND	20	a	ND	5
rbon tetrachloride	ND	20	a	ND	5
lorobenzene	ND	20	a	ND	5
loroethane	ND	40	a	ND	10
Chloroethyl vinyl ether	ND	40	a	ND	10
loroform	ND	20	a	ND	5
loromethane	ND	40	a	ND	10
Chlorotoluene	ND	20	a	ND	5
Chlorotoluene	ND	20	a	ND	5
bromochloromethane	ND	20	a	ND	5
2-Dibromo-3-chloropropane	ND	20	a	ND	5
2-Dibromoethane	ND	20	a	ND	5
bromomethane	ND	20	a	ND	5
2-Dichlorobenzene	ND	20	a	ND	5
3-Dichlorobenzene	ND	20	a	ND	5
4-Dichlorobenzene	ND	20	a	ND	5
chlorodifluoromethane	ND	40	a	ND	10
1-Dichloroethane	27	20	a,b	ND	5
2-Dichloroethane	ND	20	a	ND	5
1-Dichloroethene	3000	100	a,c	ND	5
s-1,2-Dichloroethene	35	20	a,b	ND	5
ans-1,2-Dichloroethene	45	20	a,b	ND	5
2-Dichloropropane	ND	20	a	ND	5
3-Dichloropropane	ND	20	a	ND	5
2-Dichloropropane	ND	20	a	ND	5
1-Dichloropropene	ND	20	a	ND	5
s-1,3-Dichloropropene	ND	20	a	ND	5
ans-1,3-Dichloropropene	ND	20	a	ND	5
thylbenzene	ND	20	a	ND	5
reon 113	ND	20	a	ND	5
exachlorobutadiene	ND	20	a	ND	5
-Hexanone	ND	40	a	ND	10
sopropylbenzene	ND	20	a	ND	5
-Isopropyltoluene	ND	20	a	ND	5
lethylene chloride	ND	20	a	ND	5
-Methyl-2-pentanone	ND	40	a	ND	10
aphthalene	ND	20	a	ND	5
-Propylbenzene	ND	20	a	ND	5

Analytical Notes

a - Raised detection limit due to sample interference.

b - Result from a 1:4 dilution.

c - Result from a 1:20 dilution.

	Sample	Method Blank
Date Sampled:	3/04/96	N/A
Date Analyzed:	3/07/96	3/07/96

(continued on next page)

/OLATILE ORGANICS

:lient I.D.: WCC1S-14
aboratory I.D.: 213865-002
:lient: KENNEDY/JENKS

Matrix: Liquid
Method: EPA 8260
Extraction: EPA 5030 Purge & Trap

(continued from previous page)

Compound	Result (ug/L)	Detection Limit	Analytical Notes	Method Blank	Detection Limit
:tyrene	ND	20	a	ND	5
,1,1,2-Tetrachloroethane	ND	20	a	ND	5
,1,2,2-Tetrachloroethane	ND	20	a	ND	5
'etrachloroethene	ND	20	a	ND	5
'oluene	ND	20	a	ND	5
,2,3-Trichlorobenzene	ND	20	a	ND	5
,2,4-Trichlorobenzene	ND	20	a	ND	5
,1,1-Trichloroethane	24	20	a,b	ND	5
,1,2-Trichloroethane	ND	20	a	ND	5
'richloroethene	2700	100	a,c	ND	5
'richlorofluoromethane	ND	20	a	ND	5
,2,3-Trichloropropane	ND	20	a	ND	5
,2,4-Trimethylbenzene	ND	20	a	ND	5
,3,5-Trimethylbenzene	ND	20	a	ND	5
'inyl acetate	ND	40	a	ND	10
'inyl chloride	ND	40	a	ND	10
ı,p-Xylenes	ND	20	a	ND	5
-Xylene	ND	20	a	ND	5

Analytical Notes

a - Raised detection limit due to sample interference.

b - Result from a 1:4 dilution.

c - Result from a 1:20 dilution.

Quality Control Data Summary

Surrogate Recovery Data

:ompound	Spike Amount (ug/L)	Percent Recovery	QC Limits
'oluene-d8	50	101	88-110
3romofluorobenzene	50	91	86-115
)ibromofluoromethane	50	108	76-114

Laboratory Control Sample, Matrix Spike/Matrix Spike Duplicate Data
Batch I.D.: 10872DC7 Sample I.D.: 213865-003

Compounds	Spike Amt. (ug/L)	LCS %Rec.	QC Limits	Spike %Rec.	Spk Dup %Rec.	QC Limits	RPD	QC Limits
1,1-Dichloroethene	25	91	80-120	88	90	61-145	2	14
Benzene	25	105	80-120	104	105	76-127	1	11
Trichloroethene	25	110	80-120	104	100	71-120	4	14
Toluene	25	109	80-120	108	105	76-125	3	13
Chlorobenzene	25	106	80-120	110	111	75-130	1	13

'OLATILE ORGANICS

ıent I.D.: WCC2S-14
ıboratory I.D.: 213838-002
ıent: KENNEDY/JENKS

Matrix: Liquid
Method: EPA 8260
Extraction: EPA 5030 Purge & Trap

Compound	Result (ug/L)	Detection Limit	Analytical Notes	Method Blank	Detection Limit
ɔetone	ND	10		ND	10
ɜnzene	ND	5		ND	5
·omobenzene	ND	5		ND	5
·omochloromethane	ND	5		ND	5
·omodichloromethane	ND	5		ND	5
·omoform	ND	5		ND	5
·omomethane	ND	10		ND	10
-Butanone	ND	10		ND	10
-Butylbenzene	ND	5		ND	5
ɜc-Butylbenzene	ND	5		ND	5
rt-Butylbenzene	ND	5		ND	5
arbon disulfide	ND	5		ND	5
arbon tetrachloride	ND	5		ND	5
hlorobenzene	ND	5		ND	5
hloroethane	ND	10		ND	10
-Chloroethyl vinyl ether	ND	10		ND	10
hloroform	ND	5		ND	5
hloromethane	ND	10		ND	10
-Chlorotoluene	ND	5		ND	5
-Chlorotoluene	ND	5		ND	5
ibromochloromethane	ND	5		ND	5
,2-Dibromo-3-chloropropane	ND	5		ND	5
,2-Dibromoethane	ND	5		ND	5
ibromomethane	ND	5		ND	5
,2-Dichlorobenzene	ND	5		ND	5
,3-Dichlorobenzene	ND	5		ND	5
,4-Dichlorobenzene	ND	5		ND	5
ichlorodifluoromethane	ND	10		ND	10
,1-Dichloroethane	ND	5		ND	5
,2-Dichloroethane	ND	5		ND	5
,1-Dichloroethene	ND	5		ND	5
is-1,2-Dichloroethene	ND	5		ND	5
·ans-1,2-Dichloroethene	ND	5		ND	5
,2-Dichloropropane	ND	5		ND	5
,3-Dichloropropane	ND	5		ND	5
,2-Dichloropropane	ND	5		ND	5
,1-Dichloropropene	ND	5		ND	5
is-1,3-Dichloropropene	ND	5		ND	5
·ans-1,3-Dichloropropene	ND	5		ND	5
thylbenzene	ND	5		ND	5
·reon 113	ND	5		ND	5
lexachlorobutadiene	ND	5		ND	5
-Hexanone	ND	10		ND	10
sopropylbenzene	ND	5		ND	5
-Isopropyltoluene	ND	5		ND	5
Methylene chloride	ND	5		ND	5
-Methyl-2-pentanone	ND	10		ND	10
Naphthalene	ND	5		ND	5
-Propylbenzene	ND	5		ND	5

Analytical Notes

	Sample	Method Blank
Date Sampled:	3/01/96	N/A
Date Analyzed:	3/06/96	3/06/96

(continued on next page)

VOLATILE ORGANICS

Client I.D.: WCC2S-14
Laboratory I.D.: 213838-002
Client: KENNEDY/JENKS

Matrix: Liquid
Method: EPA 8260
Extraction: EPA 5030 Purge & Trap

(continued from previous page)

Compound	Result (ug/L)	Detection Limit	Analytical Notes	Method Blank	Detection Limit
Styrene	ND	5		ND	5
1,1,1,2-Tetrachloroethane	ND	5		ND	5
1,1,2,2-Tetrachloroethane	ND	5		ND	5
Tetrachloroethene	ND	5		ND	5
Toluene	ND	5		ND	5
1,2,3-Trichlorobenzene	ND	5		ND	5
1,2,4-Trichlorobenzene	ND	5		ND	5
1,1,1-Trichloroethane	ND	5		ND	5
1,1,2-Trichloroethane	ND	5		ND	5
Trichloroethene	21	5		ND	5
Trichlorofluoromethane	ND	5		ND	5
1,2,3-Trichloropropane	ND	5		ND	5
1,2,4-Trimethylbenzene	ND	5		ND	5
1,3,5-Trimethylbenzene	ND	5		ND	5
Vinyl acetate	ND	10		ND	10
Vinyl chloride	ND	10		ND	10
m,p-Xylenes	ND	5		ND	5
o-Xylene	ND	5		ND	5

Analytical Notes

a - MS recovery out of control due to confirmed matrix effect. LCS, MSD and RPD are within acceptance limits.

Quality Control Data Summary

Surrogate Recovery Data

Compound	Spike Amount (ug/L)	Percent Recovery	QC Limits
Toluene-d8	50	99	88-110
Bromofluorobenzene	50	92	86-115
Dibromofluoromethane	50	103	76-114

Laboratory Control Sample, Matrix Spike/Matrix Spike Duplicate Data

Batch I.D.: 10814DC6 Sample I.D.: 213813-004

Compounds	Spike Amt. (ug/L)	LCS %Rec.	QC Limits	Spike %Rec.	Spk Dup %Rec.	QC Limits	RPD	QC Limits
1,1-Dichloroethene	25	89	80-120	93	88	61-145	6	14
Benzene	25	105	80-120	113	107	76-127	5	11
Trichloroethene	25	112	80-120	a	115	71-120	6	14
Toluene	25	110	80-120	111	103	76-125	7	13
Chlorobenzene	25	111	80-120	116	111	75-130	4	13

VOLATILE ORGANICS

Client I.D.: WCC3S-14
Laboratory I.D.: 213865-004
Client: KENNEDY/JENKS

Matrix: Liquid
Method: EPA 8260
Extraction: EPA 5030 Purge & Trap

Compound	Result (ug/L)	Detection Limit	Analytical Notes	Method Blank	Detection Limit
Acetone	ND	100	a	ND	10
Benzene	100	50	a,b	ND	5
Bromobenzene	ND	50	a	ND	5
Bromochloromethane	ND	50	a	ND	5
Bromodichloromethane	ND	50	a	ND	5
Bromoform	ND	50	a	ND	5
Bromomethane	ND	100	a	ND	10
2-Butanone	ND	100	a	ND	10
n-Butylbenzene	ND	50	a	ND	5
sec-Butylbenzene	ND	50	a	ND	5
tert-Butylbenzene	ND	50	a	ND	5
Carbon disulfide	ND	50	a	ND	5
Carbon tetrachloride	ND	50	a	ND	5
Chlorobenzene	ND	50	a	ND	5
Chloroethane	ND	100	a	ND	10
2-Chloroethyl vinyl ether	ND	100	a	ND	10
Chloroform	ND	50	a	ND	5
Chloromethane	ND	100	a	ND	10
2-Chlorotoluene	ND	50	a	ND	5
4-Chlorotoluene	ND	50	a	ND	5
Dibromochloromethane	ND	50	a	ND	5
1,2-Dibromo-3-chloropropane	ND	50	a	ND	5
1,2-Dibromoethane	ND	50	a	ND	5
Dibromomethane	ND	50	a	ND	5
1,2-Dichlorobenzene	ND	50	a	ND	5
1,3-Dichlorobenzene	ND	50	a	ND	5
1,4-Dichlorobenzene	ND	50	a	ND	5
Dichlorodifluoromethane	ND	100	a	ND	10
1,1-Dichloroethane	230	50	a,b	ND	5
1,2-Dichloroethane	ND	50	a	ND	5
1,1-Dichloroethene	8400	500	a,c	ND	5
cis-1,2-Dichloroethene	3200	500	a,c	ND	5
trans-1,2-Dichloroethene	280	50	a,b	ND	5
1,2-Dichloropropane	ND	50	a	ND	5
1,3-Dichloropropane	ND	50	a	ND	5
2,2-Dichloropropane	ND	50	a	ND	5
1,1-Dichloropropene	ND	50	a	ND	5
cis-1,3-Dichloropropene	ND	50	a	ND	5
trans-1,3-Dichloropropene	ND	50	a	ND	5
Ethylbenzene	ND	50	a	ND	5
Freon 113	ND	50	a	ND	5
Hexachlorobutadiene	ND	50	a	ND	5
2-Hexanone	ND	100	a	ND	10
Isopropylbenzene	ND	50	a	ND	5
4-Isopropyltoluene	ND	50	a	ND	5
Methylene chloride	ND	50	a	ND	5
4-Methyl-2-pentanone	200	100	a,b	ND	10
Naphthalene	ND	50	a	ND	5
n-Propylbenzene	ND	50	a	ND	5

Analytical Notes

a - Raised detection limit due to sample interference.

b - Result from a 1:10 dilution.

c - Result from a 1:100 dilution.

	Sample	Method Blank
Date Sampled:	3/04/96	N/A
Date Analyzed:	3/07/96	3/07/96

(continued on next page)

VOLATILE ORGANICS

Client I.D.: WCC3S-14
Laboratory I.D.: 213865-004
Client: KENNEDY/JENKS

Matrix: Liquid
Method: EPA 8260
Extraction: EPA 5030 Purge & Trap

(continued from previous page)

Compound	Result (ug/L)	Detection Limit	Analytical Notes	Method Blank	Detection Limit
Styrene	ND	50	a	ND	5
1,1,1,2-Tetrachloroethane	ND	50	a	ND	5
1,1,2,2-Tetrachloroethane	ND	50	a	ND	5
Tetrachloroethene	ND	50	a	ND	5
Toluene	15000	500	a,c	ND	5
1,2,3-Trichlorobenzene	ND	50	a	ND	5
1,2,4-Trichlorobenzene	ND	50	a	ND	5
1,1,1-Trichloroethane	1900	500	a,c	ND	5
1,1,2-Trichloroethane	ND	50	a	ND	5
Trichloroethene	480	50	a,b	ND	5
Trichlorofluoromethane	ND	50	a	ND	5
1,2,3-Trichloropropane	ND	50	a	ND	5
1,2,4-Trimethylbenzene	ND	50	a	ND	5
1,3,5-Trimethylbenzene	ND	50	a	ND	5
Vinyl acetate	ND	100	a	ND	10
Vinyl chloride	ND	100	a	ND	10
m,p-Xylenes	ND	50	a	ND	5
o-Xylene	ND	50	a	ND	5

Analytical Notes

a - Raised detection limit due to sample interference.

b - Result from a 1:10 dilution.

c - Result from a 1:100 dilution.

Quality Control Data Summary

Surrogate Recovery Data

Compound	Spike Amount (ug/L)	Percent Recovery	QC Limits
Toluene-d8	50	101	88-110
Bromofluorobenzene	50	93	86-115
Dibromofluoromethane	50	111	76-114

Laboratory Control Sample, Matrix Spike/Matrix Spike Duplicate Data

Batch I.D.: 10872DC7 Sample I.D.: 213865-003

Compounds	Spike Amt. (ug/L)	LCS %Rec.	QC Limits	Spike %Rec.	Spk Dup %Rec.	QC Limits	RPD	QC Limits
1,1-Dichloroethene	25	91	80-120	88	90	61-145	2	14
Benzene	25	105	80-120	104	105	76-127	1	11
Trichloroethene	25	110	80-120	104	100	71-120	4	14
Toluene	25	109	80-120	108	105	76-125	3	13
Chlorobenzene	25	106	80-120	110	111	75-130	1	13

VOLATILE ORGANICS

:lient I.D.: WCC4S-14
.aboratory I.D.: 213865-001
:lient: KENNEDY/JENKS

Matrix: Liquid
Method: EPA 8260
Extraction: EPA 5030 Purge & Trap

Compound	Result (ug/L)	Detection Limit	Analytical Notes	Method Blank	Detection Limit
,cetone	ND	10		ND	10
›enzene	ND	5		ND	5
›romobenzene	ND	5		ND	5
›romochloromethane	ND	5		ND	5
›romodichloromethane	ND	5		ND	5
›romoform	ND	5		ND	5
›romomethane	ND	10		ND	10
-Butanone	ND	10		ND	10
-Butylbenzene	ND	5		ND	5
ec-Butylbenzene	ND	5		ND	5
›rt-Butylbenzene	ND	5		ND	5
:arbon disulfide	ND	5		ND	5
:arbon tetrachloride	ND	5		ND	5
:hlorobenzene	ND	5		ND	5
:hloroethane	ND	10		ND	10
-Chloroethyl vinyl ether	ND	10		ND	10
:hloroform	ND	5		ND	5
:hloromethane	ND	10		ND	10
-Chlorotoluene	ND	5		ND	5
-Chlorotoluene	ND	5		ND	5
›ibromochloromethane	ND	5		ND	5
,2-Dibromo-3-chloropropane	ND	5		ND	5
,2-Dibromoethane	ND	5		ND	5
›ibromomethane	ND	5		ND	5
,2-Dichlorobenzene	ND	5		ND	5
,3-Dichlorobenzene	ND	5		ND	5
,4-Dichlorobenzene	ND	5		ND	5
›ichlorodifluoromethane	ND	10		ND	10
,1-Dichloroethane	ND	5		ND	5
,2-Dichloroethane	ND	5		ND	5
,1-Dichloroethene	710	50	a,b	ND	5
›s-1,2-Dichloroethene	6	5		ND	5
ans-1,2-Dichloroethene	6	5		ND	5
,2-Dichloropropane	ND	5		ND	5
,3-Dichloropropane	ND	5		ND	5
,2-Dichloropropane	ND	5		ND	5
1-Dichloropropene	ND	5		ND	5
s-1,3-Dichloropropene	ND	5		ND	5
ans-1,3-Dichloropropene	ND	5		ND	5
thylbenzene	ND	5		ND	5
›eon 113	ND	5		ND	5
exachlorobutadiene	ND	5		ND	5
-Hexanone	ND	10		ND	10
opropylbenzene	ND	5		ND	5
-Isopropyltoluene	ND	5		ND	5
›ethylene chloride	ND	5		ND	5
-Methyl-2-pentanone	ND	10		ND	10
aphthalene	ND	5		ND	5
-Propylbenzene	ND	5		ND	5

Analytical Notes

a - Raised detection limit due to sample interference.

b - Result from a 1:10 dilution.

	Sample	Method Blank
Date Sampled:	3/04/96	N/A
Date Analyzed:	3/07/96	3/07/96

(continued on next page)

VOLATILE ORGANICS

Client I.D.: WCC4S-14
Laboratory I.D.: 213865-001
Client: KENNEDY/JENKS

Matrix: Liquid
Method: EPA 8260
Extraction: EPA 5030 Purge & Trap

(continued from previous page)

Compound	Result (ug/L)	Detection Limit	Analytical Notes	Method Blank	Detection Limit
Styrene	ND	5		ND	5
1,1,1,2-Tetrachloroethane	ND	5		ND	5
1,1,2,2-Tetrachloroethane	ND	5		ND	5
Tetrachloroethene	ND	5		ND	5
Toluene	ND	5		ND	5
1,2,3-Trichlorobenzene	ND	5		ND	5
1,2,4-Trichlorobenzene	ND	5		ND	5
1,1,1-Trichloroethane	ND	5		ND	5
1,1,2-Trichloroethane	ND	5		ND	5
Trichloroethene	770	50	a,b	ND	5
Trichlorofluoromethane	ND	5		ND	5
1,2,3-Trichloropropane	ND	5		ND	5
1,2,4-Trimethylbenzene	ND	5		ND	5
1,3,5-Trimethylbenzene	ND	5		ND	5
Vinyl acetate	ND	10		ND	10
Vinyl chloride	ND	10		ND	10
m,p-Xylenes	ND	5		ND	5
o-Xylene	ND	5		ND	5

Analytical Notes

a - Raised detection limit due to sample interference.

b - Result from a 1:10 dilution.

Quality Control Data Summary

Surrogate Recovery Data

Compound	Spike Amount (ug/L)	Percent Recovery	QC Limits
Toluene-d8	50	100	88-110
Bromofluorobenzene	50	91	86-115
Dibromofluoromethane	50	105	76-114

Laboratory Control Sample, Matrix Spike/Matrix Spike Duplicate Data

Batch I.D.: 10872DC7 Sample I.D.: 213865-003

Compounds	Spike Amt. (ug/L)	LCS %Rec.	QC Limits	Spike %Rec.	Spk Dup %Rec.	QC Limits	RPD	QC Limits
1,1-Dichloroethene	25	91	80-120	88	90	61-145	2	14
Benzene	25	105	80-120	104	105	76-127	1	11
Trichloroethene	25	110	80-120	104	100	71-120	4	14
Toluene	25	109	80-120	108	105	76-125	3	13
Chlorobenzene	25	106	80-120	110	111	75-130	1	13

VOLATILE ORGANICS

Client I.D.: WCC5S-14
Laboratory I.D.: 213841-001
Client: KENNEDY/JENKS

Matrix: Liquid
Method: EPA 8260
Extraction: EPA 5030 Purge & Trap

Compound	Result (ug/L)	Detection Limit	Analytical Notes	Method Blank	Detection Limit
Acetone	ND	10		ND	10
Benzene	ND	5		ND	5
Bromobenzene	ND	5		ND	5
Bromochloromethane	ND	5		ND	5
Bromodichloromethane	ND	5		ND	5
Bromoform	ND	5		ND	5
Bromomethane	ND	10		ND	10
2-Butanone	ND	10		ND	10
n-Butylbenzene	ND	5		ND	5
sec-Butylbenzene	ND	5		ND	5
tert-Butylbenzene	ND	5		ND	5
Carbon disulfide	ND	5		ND	5
Carbon tetrachloride	ND	5		ND	5
Chlorobenzene	ND	5		ND	5
Chloroethane	ND	10		ND	10
2-Chloroethyl vinyl ether	ND	10		ND	10
Chloroform	ND	5		ND	5
Chloromethane	ND	10		ND	10
2-Chlorotoluene	ND	5		ND	5
4-Chlorotoluene	ND	5		ND	5
Dibromochloromethane	ND	5		ND	5
1,2-Dibromo-3-chloropropane	ND	5		ND	5
1,2-Dibromoethane	ND	5		ND	5
Dibromomethane	ND	5		ND	5
1,2-Dichlorobenzene	ND	5		ND	5
1,3-Dichlorobenzene	ND	5		ND	5
1,4-Dichlorobenzene	ND	5		ND	5
Dichlorodifluoromethane	ND	10		ND	10
1,1-Dichloroethane	ND	5		ND	5
1,2-Dichloroethane	ND	5		ND	5
1,1-Dichloroethene	10	5		ND	5
cis-1,2-Dichloroethene	ND	5		ND	5
trans-1,2-Dichloroethene	ND	5		ND	5
1,2-Dichloropropane	ND	5		ND	5
1,3-Dichloropropane	ND	5		ND	5
2,2-Dichloropropane	ND	5		ND	5
1,1-Dichloropropene	ND	5		ND	5
cis-1,3-Dichloropropene	ND	5		ND	5
trans-1,3-Dichloropropene	ND	5		ND	5
Ethylbenzene	ND	5		ND	5
Freon 113	ND	5		ND	5
Hexachlorobutadiene	ND	5		ND	5
2-Hexanone	ND	10		ND	10
Isopropylbenzene	ND	5		ND	5
p-Isopropyltoluene	ND	5		ND	5
Methylene chloride	ND	5		ND	5
4-Methyl-2-pentanone	ND	10		ND	10
Naphthalene	ND	5		ND	5
n-Propylbenzene	ND	5		ND	5

Analytical Notes

	Sample	Method Blank
Date Sampled:	2/29/96	N/A
Date Analyzed:	3/05/96	3/05/96

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VOLATILE ORGANICS

Client I.D.: WCC5S-14
Laboratory I.D.: 213841-001
Client: KENNEDY/JENKS

Matrix: Liquid
Method: EPA 8260
Extraction: EPA 5030 Purge & Trap

(continued from previous page)

Compound	Result (ug/L)	Detection Limit	Analytical Notes	Method Blank	Detection Limit	Analytical Notes
Styrene	ND	5		ND	5	
1,1,1,2-Tetrachloroethane	ND	5		ND	5	
1,1,2,2-Tetrachloroethane	ND	5		ND	5	
Tetrachloroethene	ND	5		ND	5	
Toluene	ND	5		ND	5	
1,2,3-Trichlorobenzene	ND	5		ND	5	
1,2,4-Trichlorobenzene	ND	5		ND	5	
1,1,1-Trichloroethane	ND	5		ND	5	
1,1,2-Trichloroethane	ND	5		ND	5	
Trichloroethene	ND	5		ND	5	
Trichlorofluoromethane	ND	5		ND	5	
1,2,3-Trichloropropane	ND	5		ND	5	
1,2,4-Trimethylbenzene	ND	5		ND	5	
1,3,5-Trimethylbenzene	ND	5		ND	5	
Vinyl acetate	ND	10		ND	10	
Vinyl chloride	ND	10		ND	10	
m,p-Xylenes	ND	5		ND	5	
o-Xylene	ND	5		ND	5	

Quality Control Data Summary

Surrogate Recovery Data

Compound	Spike Amount (ug/L)	Percent Recovery	QC Limits
Toluene-d8	50	99	88-110
Bromofluorobenzene	50	92	86-115
Dibromofluoromethane	50	105	76-114

Laboratory Control Sample, Matrix Spike/Matrix Spike Duplicate Data

Batch I.D.: 10813DC5 Sample I.D.: 213813-007

Compounds	Spike Amt. (ug/L)	LCS %Rec.	QC Limits	Spike %Rec.	Spk Dup %Rec.	QC Limits	RPD	QC Limits
1,1-Dichloroethene	25	83	80-120	95	85	61-145	11	14
Benzene	25	102	80-120	106	98	76-127	8	11
Trichloroethene	25	111	80-120	113	101	71-120	11	14
Toluene	25	102	80-120	114	104	76-125	9	13
Chlorobenzene	25	104	80-120	113	107	75-130	5	13

VOLATILE ORGANICS

Client I.D.: WCC6S-14
Laboratory I.D.: 213865-005
Client: KENNEDY/JENKS

Matrix: Liquid
Method: EPA 8260
Extraction: EPA 5030 Purge & Trap

Compound	Result (ug/L)	Detection Limit	Analytical Notes	Method Blank	Detection Limit
Acetone	ND	100	a	ND	10
Benzene	56	50	a,b	ND	5
Bromobenzene	ND	50	a	ND	5
Bromochloromethane	ND	50	a	ND	5
Bromodichloromethane	ND	50	a	ND	5
Bromoform	ND	50	a	ND	5
Bromomethane	ND	100	a	ND	10
2-Butanone	340	100	a,b	ND	10
n-Butylbenzene	ND	50	a	ND	5
sec-Butylbenzene	ND	50	a	ND	5
tert-Butylbenzene	ND	50	a	ND	5
Carbon disulfide	ND	50	a	ND	5
Carbon tetrachloride	ND	50	a	ND	5
Chlorobenzene	ND	50	a	ND	5
Chloroethane	ND	100	a	ND	10
2-Chloroethyl vinyl ether	ND	100	a	ND	10
Chloroform	ND	50	a	ND	5
Chloromethane	ND	100	a	ND	10
2-Chlorotoluene	ND	50	a	ND	5
4-Chlorotoluene	ND	50	a	ND	5
Dibromochloromethane	ND	50	a	ND	5
1,2-Dibromo-3-chloropropane	ND	50	a	ND	5
1,2-Dibromoethane	ND	50	a	ND	5
Dibromomethane	ND	50	a	ND	5
1,2-Dichlorobenzene	ND	50	a	ND	5
1,3-Dichlorobenzene	ND	50	a	ND	5
1,4-Dichlorobenzene	ND	50	a	ND	5
Dichlorodifluoromethane	ND	100	a	ND	10
1,1-Dichloroethane	93	50	a,b	ND	5
1,2-Dichloroethane	ND	50	a	ND	5
1,1-Dichloroethene	8300	500	a,c	ND	5
cis-1,2-Dichloroethene	2000	50	a,b	ND	5
trans-1,2-Dichloroethene	140	50	a,b	ND	5
1,2-Dichloropropane	ND	50	a	ND	5
1,3-Dichloropropane	ND	50	a	ND	5
2,2-Dichloropropane	ND	50	a	ND	5
1,1-Dichloropropene	ND	50	a	ND	5
cis-1,3-Dichloropropene	ND	50	a	ND	5
trans-1,3-Dichloropropene	ND	50	a	ND	5
Ethylbenzene	ND	50	a	ND	5
Freon 113	ND	50	a	ND	5
Hexachlorobutadiene	ND	50	a	ND	5
2-Hexanone	ND	100	a	ND	10
Isopropylbenzene	ND	50	a	ND	5
p-Isopropyltoluene	ND	50	a	ND	5
Methylene chloride	ND	50	a	ND	5
4-Methyl-2-pentanone	350	100	a,b	ND	10
Naphthalene	ND	50	a	ND	5
n-Propylbenzene	ND	50	a	ND	5

Analytical Notes

a - Raised detection limit due to sample interference.

b - Result from a 1:10 dilution.

c - Result from a 1:100 dilution.

	Sample	Method Blank
Date Sampled:	3/04/96	N/A
Date Analyzed:	3/07/96	3/07/96

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VOLATILE ORGANICS

Client I.D.: WCC6S-14
Laboratory I.D.: 213865-005
Client: KENNEDY/JENKS

Matrix: Liquid
Method: EPA 8260
Extraction: EPA 5030 Purge & Trap

(continued from previous page)

Compound	Result (ug/L)	Detection Limit	Analytical Notes	Method Blank	Detection Limit
Styrene	ND	50	a	ND	5
1,1,1,2-Tetrachloroethane	ND	50	a	ND	5
1,1,2,2-Tetrachloroethane	ND	50	a	ND	5
Tetrachloroethene	ND	50	a	ND	5
Toluene	3900	500	a,c	ND	5
1,2,3-Trichlorobenzene	ND	50	a	ND	5
1,2,4-Trichlorobenzene	ND	50	a	ND	5
1,1,1-Trichloroethane	1600	50	a,b	ND	5
1,1,2-Trichloroethane	61	50	a,b	ND	5
Trichloroethene	2000	50	a,b	ND	5
Trichlorofluoromethane	ND	50	a	ND	5
1,2,3-Trichloropropane	ND	50	a	ND	5
1,2,4-Trimethylbenzene	ND	50	a	ND	5
1,3,5-Trimethylbenzene	ND	50	a	ND	5
Vinyl acetate	ND	100	a	ND	10
Vinyl chloride	ND	100	a	ND	10
m,p-Xylenes	ND	50	a	ND	5
o-Xylene	ND	50	a	ND	5

Analytical Notes

a - Raised detection limit due to sample interference.

b - Result from a 1:10 dilution.

c - Result from a 1:100 dilution.

Quality Control Data Summary

Surrogate Recovery Data

Compound	Spike Amount (ug/L)	Percent Recovery	QC Limits
Toluene-d8	50	100	88-110
Bromofluorobenzene	50	88	86-115
Dibromofluoromethane	50	107	76-114

Laboratory Control Sample, Matrix Spike/Matrix Spike Duplicate Data

Batch I.D.: 10872DC7 Sample I.D.: 213865-003

Compounds	Spike Amt. (ug/L)	LCS %Rec.	QC Limits	Spike %Rec.	Spk Dup %Rec.	QC Limits	RPD	QC Limits
1,1-Dichloroethene	25	91	80-120	88	90	61-145	2	14
Benzene	25	105	80-120	104	105	76-127	1	11
Trichloroethene	25	110	80-120	104	100	71-120	4	14
Toluene	25	109	80-120	108	105	76-125	3	13
Chlorobenzene	25	106	80-120	110	111	75-130	1	13

VOLATILE ORGANICS

Client I.D.: WCC7S-14
Laboratory I.D.: 213838-005
Client: KENNEDY/JENKS

Matrix: Liquid
Method: EPA 8260
Extraction: EPA 5030 Purge & Trap

Compound	Result (ug/L)	Detection Limit	Analytical Notes	Method Blank	Detection Limit
Acetone	ND	10		ND	10
Benzene	ND	5		ND	5
Bromobenzene	ND	5		ND	5
Bromochloromethane	ND	5		ND	5
Bromodichloromethane	ND	5		ND	5
Bromoform	ND	5		ND	5
Bromomethane	ND	10		ND	10
2-Butanone	ND	10		ND	10
n-Butylbenzene	ND	5		ND	5
sec-Butylbenzene	ND	5		ND	5
tert-Butylbenzene	ND	5		ND	5
Carbon disulfide	ND	5		ND	5
Carbon tetrachloride	ND	5		ND	5
Chlorobenzene	ND	5		ND	5
Chloroethane	ND	10		ND	10
2-Chloroethyl vinyl ether	ND	10		ND	10
Chloroform	ND	5		ND	5
Chloromethane	ND	10		ND	10
2-Chlorotoluene	ND	5		ND	5
4-Chlorotoluene	ND	5		ND	5
Dibromochloromethane	ND	5		ND	5
1,2-Dibromo-3-chloropropane	ND	5		ND	5
1,2-Dibromoethane	ND	5		ND	5
Dibromomethane	ND	5		ND	5
1,2-Dichlorobenzene	ND	5		ND	5
1,3-Dichlorobenzene	ND	5		ND	5
1,4-Dichlorobenzene	ND	5		ND	5
Dichlorodifluoromethane	ND	10		ND	10
1,1-Dichloroethane	ND	5		ND	5
1,2-Dichloroethane	ND	5		ND	5
1,1-Dichloroethene	91	5		ND	5
cis-1,2-Dichloroethene	ND	5		ND	5
trans-1,2-Dichloroethene	ND	5		ND	5
1,2-Dichloropropane	ND	5		ND	5
1,3-Dichloropropane	ND	5		ND	5
2,2-Dichloropropane	ND	5		ND	5
1,1-Dichloropropene	ND	5		ND	5
cis-1,3-Dichloropropene	ND	5		ND	5
trans-1,3-Dichloropropene	ND	5		ND	5
Ethylbenzene	ND	5		ND	5
Freon 113	ND	5		ND	5
Hexachlorobutadiene	ND	5		ND	5
2-Hexanone	ND	10		ND	10
Isopropylbenzene	ND	5		ND	5
p-Isopropyltoluene	ND	5		ND	5
Methylene chloride	ND	5		ND	5
4-Methyl-2-pentanone	ND	10		ND	10
Naphthalene	ND	5		ND	5
n-Propylbenzene	ND	5		ND	5

Analytical Notes

	Sample	Method Blank
Date Sampled:	3/01/96	N/A
Date Analyzed:	3/06/96	3/06/96

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OLATILE ORGANICS

ent I.D.: WCC7S-14
oratory I.D.: 213838-005
ent: KENNEDY/JENKS

Matrix: Liquid
Method: EPA 8260
Extraction: EPA 5030 Purge & Trap

(continued from previous page)

Compound	Result (ug/L)	Detection Limit	Analytical Notes	Method Blank	Detection Limit
yrene	ND	5		ND	5
1,1,2-Tetrachloroethane	ND	5		ND	5
1,2,2-Tetrachloroethane	ND	5		ND	5
etrachloroethene	ND	5		ND	5
oluene	ND	5		ND	5
2,3-Trichlorobenzene	ND	5		ND	5
2,4-Trichlorobenzene	ND	5		ND	5
1,1-Trichloroethane	ND	5		ND	5
1,2-Trichloroethane	ND	5		ND	5
richloroethene	120	5		ND	5
richlorofluoromethane	ND	5		ND	5
2,3-Trichloropropane	ND	5		ND	5
2,4-Trimethylbenzene	ND	5		ND	5
3,5-Trimethylbenzene	ND	5		ND	5
nyl acetate	ND	10		ND	10
nyl chloride	ND	10		ND	10
,p-Xylenes	ND	5		ND	5
Xylene	ND	5		ND	5

Analytical Notes

a - MS recovery out of control due to confirmed matrix effect. LCS, MSD and RPD are within acceptance limits.

Quality Control Data Summary

Surrogate Recovery Data

Compound	Spike Amount (ug/L)	Percent Recovery	QC Limits
Toluene-d8	50	101	88-110
Bromofluorobenzene	50	93	86-115
Dibromofluoromethane	50	107	76-114

Laboratory Control Sample, Matrix Spike/Matrix Spike Duplicate Data

Batch I.D.: 10814DC6 Sample I.D.: 213813-004

Compounds	Spike Amt. (ug/L)	LCS %Rec.	QC Limits	Spike %Rec.	Spk Dup %Rec.	QC Limits	RPD	QC Limits
1,1-Dichloroethene	25	89	80-120	93	88	61-145	6	14
Benzene	25	105	80-120	113	107	76-127	5	11
Trichloroethene	25	112	80-120	a	115	71-120	6	14
Toluene	25	110	80-120	111	103	76-125	7	13
Chlorobenzene	25	111	80-120	116	111	75-130	4	13

OLATILE ORGANICS

ent I.D.: WCC8S-14
oratory I.D.: 213838-007
ent: KENNEDY/JENKS

Matrix: Liquid
Method: EPA 8260
Extraction: EPA 5030 Purge & Trap

Compound	Result (ug/L)	Detection Limit	Analytical Notes	Method Blank	Detection Limit
etone	ND	40	b	ND	10
nzene	ND	20	b	ND	5
omobenzene	ND	20	b	ND	5
omochloromethane	ND	20	b	ND	5
omodichloromethane	ND	20	b	ND	5
omoform	ND	20	b	ND	5
omomethane	ND	40	b	ND	10
Butanone	ND	40	b	ND	10
Butylbenzene	ND	20	b	ND	5
c-Butylbenzene	ND	20	b	ND	5
t-Butylbenzene	ND	20	b	ND	5
arbon disulfide	ND	20	b	ND	5
arbon tetrachloride	ND	20	b	ND	5
hlorobenzene	ND	20	b	ND	5
hloroethane	ND	40	b	ND	10
Chloroethyl vinyl ether	ND	40	b	ND	10
hloroform	ND	20	b	ND	5
hloromethane	ND	40	b	ND	10
Chlorotoluene	ND	20	b	ND	5
Chlorotoluene	ND	20	b	ND	5
ibromochloromethane	ND	20	b	ND	5
2-Dibromo-3-chloropropane	ND	20	b	ND	5
2-Dibromoethane	ND	20	b	ND	5
ibromomethane	ND	20	b	ND	5
2-Dichlorobenzene	ND	20	b	ND	5
3-Dichlorobenzene	ND	20	b	ND	5
4-Dichlorobenzene	ND	20	b	ND	5
ichlorodifluoromethane	ND	40	b	ND	10
1-Dichloroethane	ND	20	b	ND	5
2-Dichloroethane	ND	20	b	ND	5
1-Dichloroethene	3500	200	b,d	ND	5
is-1,2-Dichloroethene	ND	20	b	ND	5
ans-1,2-Dichloroethene	40	20	b,c	ND	5
2-Dichloropropane	ND	20	b	ND	5
3-Dichloropropane	ND	20	b	ND	5
2-Dichloropropane	ND	20	b	ND	5
1-Dichloropropene	ND	20	b	ND	5
is-1,3-Dichloropropene	ND	20	b	ND	5
rans-1,3-Dichloropropene	ND	20	b	ND	5
thylbenzene	ND	20	b	ND	5
reon 113	ND	20	b	ND	5
exachlorobutadiene	ND	20	b	ND	5
2-Hexanone	ND	40	b	ND	10
sopropylbenzene	ND	20	b	ND	5
p-Isopropyltoluene	ND	20	b	ND	5
Methylene chloride	ND	20	b	ND	5
4-Methyl-2-pentanone	ND	40	b	ND	10
Naphthalene	ND	20	b	ND	5
n-Propylbenzene	ND	20	b	ND	5

Analytical Notes

b - Raised detection limit due to sample interference.

c - Result from a 1:4 dilution.

d - Result from a 1:40 dilution.

	Sample	Method Blank
Date Sampled:	3/01/96	N/A
Date Analyzed:	3/07/96	3/07/96

(continued on next page)

/OLATILE ORGANICS

lient I.D.: WCC8S-14
aboratory I.D.: 213838-007
lient: KENNEDY/JENKS

Matrix: Liquid
Method: EPA 8260
Extraction: EPA 5030 Purge & Trap

(continued from previous page)

Compound	Result (ug/L)	Detection Limit	Analytical Notes	Method Blank	Detection Limit
tyrene	ND	20	b	ND	5
,1,1,2-Tetrachloroethane	ND	20	b	ND	5
,1,2,2-Tetrachloroethane	ND	20	b	ND	5
etrachloroethene	ND	20	b	ND	5
oluene	ND	20	b	ND	5
,2,3-Trichlorobenzene	ND	20	b	ND	5
,2,4-Trichlorobenzene	ND	20	b	ND	5
,1,1-Trichloroethane	120	20	b,c	ND	5
,1,2-Trichloroethane	ND	20	b	ND	5
richloroethene	2100	200	b,d	ND	5
richlorofluoromethane	ND	20	b	ND	5
,2,3-Trichloropropane	ND	20	b	ND	5
,2,4-Trimethylbenzene	ND	20	b	ND	5
,3,5-Trimethylbenzene	ND	20	b	ND	5
/inyl acetate	ND	40	b	ND	10
/inyl chloride	ND	40	b	ND	10
n,p-Xylenes	ND	20	b	ND	5
-Xylene	ND	20	b	ND	5

Analytical Notes

a - MS recovery out of control due to confirmed matrix effect. LCS, MSD and RPD are within accetance limits.

b - Raised detection limit due to sample interference.

c - Result from a 1:4 dilution.

d - Result from a 1:40 dilution.

Quality Control Data Summary

Surrogate Recovery Data

Compound	Spike Amount (ug/L)	Percent Recovery	QC Limits
Toluene-d8	50	100	88-110
Bromofluorobenzene	50	92	86-115
Dibromofluoromethane	50	108	76-114

Laboratory Control Sample, Matrix Spike/Matrix Spike Duplicate Data

Batch I.D.: 10814DC7 Sample I.D.: 213813-004

Compounds	Spike Amt. (ug/L)	LCS %Rec.	QC Limits	Spike %Rec.	Spk Dup %Rec.	QC Limits	RPD	QC Limits
1,1-Dichloroethene	25	91	80-120	93	88	61-145	6	14
Benzene	25	105	80-120	113	107	76-127	5	11
Trichloroethene	25	110	80-120	a	115	71-120	6	14
Toluene	25	109	80-120	111	103	76-125	7	13
Chlorobenzene	25	106	80-120	116	111	75-130	4	13

OLATIVE ORGANICS

ent I.D.: WCC9S-14
oratory I.D.: 213841-002
ent: KENNEDY/JENKS

Matrix: Liquid
Method: EPA 8260
Extraction: EPA 5030 Purge & Trap

Compound	Result (ug/L)	Detection Limit	Analytical Notes	Method Blank	Detection Limit
etone	ND	10		ND	10
nzene	ND	5		ND	5
omobenzene	ND	5		ND	5
omochloromethane	ND	5		ND	5
omodichloromethane	ND	5		ND	5
omoform	ND	5		ND	5
omomethane	ND	10		ND	10
Butanone	ND	10		ND	10
Butylbenzene	ND	5		ND	5
c-Butylbenzene	ND	5		ND	5
t-Butylbenzene	ND	5		ND	5
rbon disulfide	ND	5		ND	5
rbon tetrachloride	ND	5		ND	5
lorobenzene	ND	5		ND	5
loroethane	ND	10		ND	10
Chloroethyl vinyl ether	ND	10		ND	10
loroform	ND	5		ND	5
loromethane	ND	10		ND	10
Chlorotoluene	ND	5		ND	5
Chlorotoluene	ND	5		ND	5
bromochloromethane	ND	5		ND	5
2-Dibromo-3-chloropropane	ND	5		ND	5
2-Dibromoethane	ND	5		ND	5
bromomethane	ND	5		ND	5
2-Dichlorobenzene	ND	5		ND	5
3-Dichlorobenzene	ND	5		ND	5
4-Dichlorobenzene	ND	5		ND	5
chlorodifluoromethane	ND	10		ND	10
1-Dichloroethane	ND	5		ND	5
2-Dichloroethane	ND	5		ND	5
1-Dichloroethene	ND	5		ND	5
s-1,2-Dichloroethene	ND	5		ND	5
ans-1,2-Dichloroethene	ND	5		ND	5
2-Dichloropropane	ND	5		ND	5
3-Dichloropropane	ND	5		ND	5
2-Dichloropropane	ND	5		ND	5
1-Dichloropropene	ND	5		ND	5
s-1,3-Dichloropropene	ND	5		ND	5
ans-1,3-Dichloropropene	ND	5		ND	5
thylbenzene	ND	5		ND	5
eon 113	ND	5		ND	5
exachlorobutadiene	ND	5		ND	5
Hexanone	ND	10		ND	10
opropylbenzene	ND	5		ND	5
Isopropyltoluene	ND	5		ND	5
ethylene chloride	ND	5		ND	5
Methyl-2-pentanone	ND	10		ND	10
aphthalene	ND	5		ND	5
Propylbenzene	ND	5		ND	5

Analytical Notes

	Sample	Method Blank
Date Sampled:	2/29/96	N/A
Date Analyzed:	3/05/96	3/05/96

(continued on next page)

/OLATILE ORGANICS

lient I.D.: WCC9S-14
aboratory I.D.: 213841-002
lient: KENNEDY/JENKS

Matrix: Liquid
Method: EPA 8260
Extraction: EPA 5030 Purge & Trap

(continued from previous page)

Compound	Result (ug/L)	Detection Limit	Analytical Notes	Method Blank	Detection Limit
tyrene	ND	5		ND	5
,1,1,2-Tetrachloroethane	ND	5		ND	5
,1,2,2-Tetrachloroethane	ND	5		ND	5
etrachloroethene	ND	5		ND	5
oluene	ND	5		ND	5
,2,3-Trichlorobenzene	ND	5		ND	5
,2,4-Trichlorobenzene	ND	5		ND	5
,1,1-Trichloroethane	ND	5		ND	5
,1,2-Trichloroethane	ND	5		ND	5
richloroethene	17	5		ND	5
richlorofluoromethane	ND	5		ND	5
,2,3-Trichloropropane	ND	5		ND	5
,2,4-Trimethylbenzene	ND	5		ND	5
,3,5-Trimethylbenzene	ND	5		ND	5
inyl acetate	ND	10		ND	10
inyl chloride	ND	10		ND	10
ı,p-Xylenes	ND	5		ND	5
-Xylene	ND	5		ND	5

Analytical Notes

Quality Control Data Summary

Surrogate Recovery Data

Compound	Spike Amount (ug/L)	Percent Recovery	QC Limits
Toluene-d8	50	99	88-110
Bromofluorobenzene	50	91	86-115
Dibromofluoromethane	50	107	76-114

Laboratory Control Sample, Matrix Spike/Matrix Spike Duplicate Data

Batch I.D.: 10813DC5 Sample I.D.: 213813-007

Compounds	Spike Amt. (ug/L)	LCS %Rec.	QC Limits	Spike %Rec.	Spk Dup %Rec.	QC Limits	RPD	QC Limits
1,1-Dichloroethene	25	83	80-120	95	85	61-145	11	14
Benzene	25	102	80-120	106	98	76-127	8	11
Trichloroethene	25	111	80-120	113	101	71-120	11	14
Toluene	25	102	80-120	114	104	76-125	9	13
Chlorobenzene	25	104	80-120	113	107	75-130	5	13

'OLATILE ORGANICS

ent I.D.: WCC10S-14
boratory I.D.: 213838-001
ent: KENNEDY/JENKS

Matrix: Liquid
Method: EPA 8260
Extraction: EPA 5030 Purge & Trap

Compound	Result (ug/L)	Detection Limit	Analytical Notes	Method Blank	Detection Limit
etone	ND	10		ND	10
nzene	ND	5		ND	5
omobenzene	ND	5		ND	5
omochloromethane	ND	5		ND	5
omodichloromethane	ND	5		ND	5
omoform	ND	5		ND	5
omomethane	ND	10		ND	10
Butanone	ND	10		ND	10
Butylbenzene	ND	5		ND	5
c-Butylbenzene	ND	5		ND	5
t-Butylbenzene	ND	5		ND	5
arbon disulfide	ND	5		ND	5
arbon tetrachloride	ND	5		ND	5
hlorobenzene	ND	5		ND	5
hloroethane	ND	10		ND	10
Chloroethyl vinyl ether	ND	10		ND	10
hloroform	ND	5		ND	5
hloromethane	ND	10		ND	10
Chlorotoluene	ND	5		ND	5
Chlorotoluene	ND	5		ND	5
bromochloromethane	ND	5		ND	5
2-Dibromo-3-chloropropane	ND	5		ND	5
2-Dibromoethane	ND	5		ND	5
bromomethane	ND	5		ND	5
2-Dichlorobenzene	ND	5		ND	5
3-Dichlorobenzene	ND	5		ND	5
4-Dichlorobenzene	ND	5		ND	5
chlorodifluoromethane	ND	10		ND	10
1-Dichloroethane	ND	5		ND	5
2-Dichloroethane	ND	5		ND	5
1-Dichloroethene	20	5		ND	5
s-1,2-Dichloroethene	ND	5		ND	5
ans-1,2-Dichloroethene	ND	5		ND	5
2-Dichloropropane	ND	5		ND	5
3-Dichloropropane	ND	5		ND	5
2-Dichloropropane	ND	5		ND	5
1-Dichloropropene	ND	5		ND	5
s-1,3-Dichloropropene	ND	5		ND	5
ans-1,3-Dichloropropene	ND	5		ND	5
hylbenzene	ND	5		ND	5
eon 113	ND	5		ND	5
exachlorobutadiene	ND	5		ND	5
Hexanone	ND	10		ND	10
opropylbenzene	ND	5		ND	5
Isopropyltoluene	ND	5		ND	5
ethylene chloride	ND	5		ND	5
Methyl-2-pentanone	ND	10		ND	10
aphthalene	ND	5		ND	5
Propylbenzene	ND	5		ND	5

Analytical Notes

	Sample	Method Blank
Date Sampled:	3/01/96	N/A
Date Analyzed:	3/06/96	3/06/96

(continued on next page)

OLATILE ORGANICS

ent I.D.: WCC10S-14
oratory I.D.: 213838-001
ent: KENNEDY/JENKS

Matrix: Liquid
Method: EPA 8260
Extraction: EPA 5030 Purge & Trap

(continued from previous page)

Compound	Result (ug/L)	Detection Limit	Analytical Notes	Method Blank	Detection Limit
rene	ND	5		ND	5
,1,2-Tetrachloroethane	ND	5		ND	5
,2,2-Tetrachloroethane	ND	5		ND	5
trachloroethene	ND	5		ND	5
luene	ND	5		ND	5
,3-Trichlorobenzene	ND	5		ND	5
,4-Trichlorobenzene	ND	5		ND	5
,1-Trichloroethane	ND	5		ND	5
,2-Trichloroethane	ND	5		ND	5
chloroethene	120	5		ND	5
chlorofluoromethane	ND	5		ND	5
,3-Trichloropropane	ND	5		ND	5
,4-Trimethylbenzene	ND	5		ND	5
,5-Trimethylbenzene	ND	5		ND	5
yl acetate	ND	10		ND	10
yl chloride	ND	10		ND	10
p-Xylenes	ND	5		ND	5
Xylene	ND	5		ND	5

Analytical Notes

a - MS recovery out of control due to confirmed matrix effect. LCS, MSD and RPD are within acceptance limits.

Quality Control Data Summary

Surrogate Recovery Data

ompound	Spike Amount (ug/L)	Percent Recovery	QC Limits
oluene-d8	50	98	88-110
romofluorobenzene	50	90	86-115
ibromofluoromethane	50	103	76-114

Laboratory Control Sample, Matrix Spike/Matrix Spike Duplicate Data

Batch I.D.: 10814DC6 Sample I.D.: 213813-004

Compounds	Spike Amt. (ug/L)	LCS %Rec.	QC Limits	Spike %Rec.	Spk Dup %Rec.	QC Limits	RPD	QC Limits
1,1-Dichloroethene	25	89	80-120	93	88	61-145	6	14
Benzene	25	105	80-120	113	107	76-127	5	11
Trichloroethene	25	112	80-120	a	115	71-120	6	14
Toluene	25	110	80-120	111	103	76-125	7	13
Chlorobenzene	25	111	80-120	116	111	75-130	4	13

/OLATILE ORGANICS

lient I.D.: WCC11S-14
aboratory I.D.: 213838-003
lient: KENNEDY/JENKS

Matrix: Liquid
Method: EPA 8260
Extraction: EPA 5030 Purge & Trap

Compound	Result (ug/L)	Detection Limit	Analytical Notes	Method Blank	Detection Limit
cetone	ND	10		ND	10
enzene	ND	5		ND	5
romobenzene	ND	5		ND	5
romochloromethane	ND	5		ND	5
romodichloromethane	ND	5		ND	5
romoform	ND	5		ND	5
romomethane	ND	10		ND	10
-Butanone	ND	10		ND	10
-Butylbenzene	ND	5		ND	5
ec-Butylbenzene	ND	5		ND	5
ert-Butylbenzene	ND	5		ND	5
arbon disulfide	ND	5		ND	5
arbon tetrachloride	ND	5		ND	5
hlorobenzene	ND	5		ND	5
hloroethane	ND	10		ND	10
-Chloroethyl vinyl ether	ND	10		ND	10
hloroform	ND	5		ND	5
hloromethane	ND	10		ND	10
-Chlorotoluene	ND	5		ND	5
-Chlorotoluene	ND	5		ND	5
ibromochloromethane	ND	5		ND	5
,2-Dibromo-3-chloropropane	ND	5		ND	5
,2-Dibromoethane	ND	5		ND	5
ibromomethane	ND	5		ND	5
,2-Dichlorobenzene	ND	5		ND	5
,3-Dichlorobenzene	ND	5		ND	5
,4-Dichlorobenzene	ND	5		ND	5
ichlorodifluoromethane	ND	10		ND	10
,1-Dichloroethane	ND	5		ND	5
,2-Dichloroethane	ND	5		ND	5
,1-Dichloroethene	30	5		ND	5
is-1,2-Dichloroethene	ND	5		ND	5
ans-1,2-Dichloroethene	ND	5		ND	5
,2-Dichloropropane	ND	5		ND	5
,3-Dichloropropane	ND	5		ND	5
,2-Dichloropropane	ND	5		ND	5
,1-Dichloropropene	ND	5		ND	5
is-1,3-Dichloropropene	ND	5		ND	5
ans-1,3-Dichloropropene	ND	5		ND	5
thylbenzene	ND	5		ND	5
reon 113	ND	5		ND	5
exachlorobutadiene	ND	5		ND	5
-Hexanone	ND	10		ND	10
sopropylbenzene	ND	5		ND	5
-Isopropyltoluene	ND	5		ND	5
ethylene chloride	ND	5		ND	5
-Methyl-2-pentanone	ND	10		ND	10
aphthalene	ND	5		ND	5
-Propylbenzene	ND	5		ND	5

Analytical Notes

	Sample	Method Blank
Date Sampled:	3/01/96	N/A
Date Analyzed:	3/06/96	3/06/96

(continued on next page)

'OLATILE ORGANICS

ient I.D.: WCC11S-14
:boratory I.D.: 213838-003
ient: KENNEDY/JENKS

Matrix: Liquid
Method: EPA 8260
Extraction: EPA 5030 Purge & Trap

(continued from previous page)

Compound	Result (ug/L)	Detection Limit	Analytical Notes	Method Blank	Detection Limit
yrene	ND	5		ND	5
1,1,2-Tetrachloroethane	ND	5		ND	5
1,2,2-Tetrachloroethane	ND	5		ND	5
etrachloroethene	ND	5		ND	5
oluene	ND	5		ND	5
2,3-Trichlorobenzene	ND	5		ND	5
2,4-Trichlorobenzene	ND	5		ND	5
1,1-Trichloroethane	ND	5		ND	5
1,2-Trichloroethane	ND	5		ND	5
richloroethene	170	5		ND	5
richlorofluoromethane	ND	5		ND	5
2,3-Trichloropropane	ND	5		ND	5
2,4-Trimethylbenzene	ND	5		ND	5
3,5-Trimethylbenzene	ND	5		ND	5
inyl acetate	ND	10		ND	10
inyl chloride	ND	10		ND	10
ı,p-Xylenes	ND	5		ND	5
-Xylene	ND	5		ND	5

Analytical Notes

a - MS recovery out of control due to confirmed matrix effect. LCS, MSD and RPD are within acceptance limits.

Quality Control Data Summary

Surrogate Recovery Data

Compound	Spike Amount (ug/L)	Percent Recovery	QC Limits
Toluene-d8	50	99	88-110
Bromofluorobenzene	50	92	86-115
Dibromofluoromethane	50	108	76-114

Laboratory Control Sample, Matrix Spike/Matrix Spike Duplicate Data

Batch I.D.: 10814DC6 Sample I.D.: 213813-004

Compounds	Spike Amt. (ug/L)	LCS %Rec.	QC Limits	Spike %Rec.	Spk Dup %Rec.	QC Limits	RPD	QC Limits
1,1-Dichloroethene	25	89	80-120	93	88	61-145	6	14
Benzene	25	105	80-120	113	107	76-127	5	11
Trichloroethene	25	112	80-120	a	115	71-120	6	14
Toluene	25	110	80-120	111	103	76-125	7	13
Chlorobenzene	25	111	80-120	116	111	75-130	4	13

OLATILE ORGANICS

ent I.D.: WCC12S-14
oratory I.D.: 213838-004
ent: KENNEDY/JENKS

Matrix: Liquid
Method: EPA 8260
Extraction: EPA 5030 Purge & Trap

Compound	Result (ug/L)	Detection Limit	Analytical Notes	Method Blank	Detection Limit
etone	ND	10		ND	10
nzene	ND	5		ND	5
omobenzene	ND	5		ND	5
omochloromethane	ND	5		ND	5
omodichloromethane	ND	5		ND	5
omoform	ND	5		ND	5
omomethane	ND	10		ND	10
Butanone	ND	10		ND	10
Butylbenzene	ND	5		ND	5
c-Butylbenzene	ND	5		ND	5
t-Butylbenzene	ND	5		ND	5
rbon disulfide	ND	5		ND	5
rbon tetrachloride	ND	5		ND	5
lorobenzene	ND	5		ND	5
loroethane	ND	10		ND	10
Chloroethyl vinyl ether	ND	10		ND	10
loroform	ND	5		ND	5
loromethane	ND	10		ND	10
Chlorotoluene	ND	5		ND	5
Chlorotoluene	ND	5		ND	5
bromochloromethane	ND	5		ND	5
2-Dibromo-3-chloropropane	ND	5		ND	5
2-Dibromoethane	ND	5		ND	5
bromomethane	ND	5		ND	5
2-Dichlorobenzene	ND	5		ND	5
3-Dichlorobenzene	ND	5		ND	5
4-Dichlorobenzene	ND	5		ND	5
chlorodifluoromethane	ND	10		ND	10
1-Dichloroethane	13	5		ND	5
2-Dichloroethane	ND	5		ND	5
1-Dichloroethene	47	5		ND	5
s-1,2-Dichloroethene	ND	5		ND	5
ans-1,2-Dichloroethene	ND	5		ND	5
2-Dichloropropane	ND	5		ND	5
3-Dichloropropane	ND	5		ND	5
2-Dichloropropane	ND	5		ND	5
1-Dichloropropene	ND	5		ND	5
s-1,3-Dichloropropene	ND	5		ND	5
ans-1,3-Dichloropropene	ND	5		ND	5
hylbenzene	ND	5		ND	5
eon 113	ND	5		ND	5
exachlorobutadiene	ND	5		ND	5
Hexanone	ND	10		ND	10
opropylbenzene	ND	5		ND	5
Isopropyltoluene	ND	5		ND	5
ethylene chloride	ND	5		ND	5
Methyl-2-pentanone	ND	10		ND	10
aphthalene	ND	5		ND	5
Propylbenzene	ND	5		ND	5

Analytical Notes

	Sample	Method Blank
Date Sampled:	3/01/96	N/A
Date Analyzed:	3/06/96	3/06/96

(continued on next page)

VOLATILE ORGANICS

Client I.D.: WCC12S-14
Laboratory I.D.: 213838-004
Client: KENNEDY/JENKS

Matrix: Liquid
Method: EPA 8260
Extraction: EPA 5030 Purge & Trap

(continued from previous page)

Compound	Result (ug/L)	Detection Limit	Analytical Notes	Method Blank	Detection Limit
Styrene	ND	5		ND	5
1,1,1,2-Tetrachloroethane	ND	5		ND	5
1,1,2,2-Tetrachloroethane	ND	5		ND	5
Tetrachloroethene	ND	5		ND	5
Toluene	ND	5		ND	5
1,2,3-Trichlorobenzene	ND	5		ND	5
1,2,4-Trichlorobenzene	ND	5		ND	5
1,1,1-Trichloroethane	ND	5		ND	5
1,1,2-Trichloroethane	ND	5		ND	5
Trichloroethene	150	5		ND	5
Trichlorofluoromethane	ND	5		ND	5
1,2,3-Trichloropropane	ND	5		ND	5
1,2,4-Trimethylbenzene	ND	5		ND	5
1,3,5-Trimethylbenzene	ND	5		ND	5
Vinyl acetate	ND	10		ND	10
Vinyl chloride	ND	10		ND	10
m,p-Xylenes	ND	5		ND	5
o-Xylene	ND	5		ND	5

Analytical Notes

a - MS recovery out of control due to confirmed matrix effect. LCS, MSD and RPD are within acceptance limits.

Quality Control Data Summary

Surrogate Recovery Data

Compound	Spike Amount (ug/L)	Percent Recovery	QC Limits
Toluene-d8	50	99	88-110
Bromofluorobenzene	50	92	86-115
Dibromofluoromethane	50	107	76-114

Laboratory Control Sample, Matrix Spike/Matrix Spike Duplicate Data
Batch I.D.: 10814DC6 Sample I.D.: 213813-004

Compounds	Spike Amt. (ug/L)	LCS %Rec.	QC Limits	Spike %Rec.	Spk Dup %Rec.	QC Limits	RPD	QC Limits
1,1-Dichloroethene	25	89	80-120	93	88	61-145	6	14
Benzene	25	105	80-120	113	107	76-127	5	11
Trichloroethene	25	112	80-120	a	115	71-120	6	14
Toluene	25	110	80-120	111	103	76-125	7	13
Chlorobenzene	25	111	80-120	116	111	75-130	4	13

VOLATILE ORGANICS

Client I.D.: DACP1-14
Laboratory I.D.: 213865-007
Client: KENNEDY/JENKS

Matrix: Liquid
Method: EPA 8260
Extraction: EPA 5030 Purge & Trap

Compound	Result (ug/L)	Detection Limit	Analytical Notes	Method Blank	Detection Limit
Acetone	ND	200	a	ND	10
Benzene	ND	100	a	ND	5
Bromobenzene	ND	100	a	ND	5
Bromochloromethane	ND	100	a	ND	5
Bromodichloromethane	ND	100	a	ND	5
Bromoform	ND	100	a	ND	5
Bromomethane	ND	200	a	ND	10
2-Butanone	ND	200	a	ND	10
n-Butylbenzene	ND	100	a	ND	5
sec-Butylbenzene	ND	100	a	ND	5
tert-Butylbenzene	ND	100	a	ND	5
Carbon disulfide	ND	100	a	ND	5
Carbon tetrachloride	ND	100	a	ND	5
Chlorobenzene	ND	100	a	ND	5
Chloroethane	ND	200	a	ND	10
2-Chloroethyl vinyl ether	ND	200	a	ND	10
Chloroform	ND	100	a	ND	5
Chloromethane	ND	200	a	ND	10
2-Chlorotoluene	ND	100	a	ND	5
4-Chlorotoluene	ND	100	a	ND	5
Dibromochloromethane	ND	100	a	ND	5
1,2-Dibromo-3-chloropropane	ND	100	a	ND	5
1,2-Dibromoethane	ND	100	a	ND	5
Dibromomethane	ND	100	a	ND	5
1,2-Dichlorobenzene	ND	100	a	ND	5
1,3-Dichlorobenzene	ND	100	a	ND	5
1,4-Dichlorobenzene	ND	100	a	ND	5
Dichlorodifluoromethane	ND	200	a	ND	10
1,1-Dichloroethane	ND	100	a	ND	5
1,2-Dichloroethane	ND	100	a	ND	5
1,1-Dichloroethene	100	100	a,b	ND	5
cis-1,2-Dichloroethene	100	100	a,b	ND	5
trans-1,2-Dichloroethene	ND	100	a	ND	5
1,2-Dichloropropane	ND	100	a	ND	5
1,3-Dichloropropane	ND	100	a	ND	5
2,2-Dichloropropane	ND	100	a	ND	5
1,1-Dichloropropene	ND	100	a	ND	5
cis-1,3-Dichloropropene	ND	100	a	ND	5
trans-1,3-Dichloropropene	ND	100	a	ND	5
Ethylbenzene	ND	100	a	ND	5
Freon 113	ND	100	a	ND	5
Hexachlorobutadiene	ND	100	a	ND	5
2-Hexanone	ND	200	a	ND	10
Isopropylbenzene	ND	100	a	ND	5
p-Isopropyltoluene	ND	100	a	ND	5
Methylene chloride	ND	100	a	ND	5
4-Methyl-2-pentanone	ND	200	a	ND	10
Naphthalene	ND	100	a	ND	5
n-Propylbenzene	ND	100	a	ND	5

Analytical Notes

a - Raised detection limit due to sample interference.

b - Result from a 1:20 dilution.

	Sample	Method Blank
Date Sampled:	3/04/96	N/A
Date Analyzed:	3/07/96	3/07/96

(continued on next page)

VOLATILE ORGANICS

Client I.D.: DACP1-14
Laboratory I.D.: 213865-007
Client: KENNEDY/JENKS

Matrix: Liquid
Method: EPA 8260
Extraction: EPA 5030 Purge & Trap

(continued from previous page)

Compound	Result (ug/L)	Detection Limit	Analytical Notes	Method Blank	Detection Limit
Styrene	ND	100	a	ND	5
1,1,1,2-Tetrachloroethane	ND	100	a	ND	5
1,1,2,2-Tetrachloroethane	ND	100	a	ND	5
Tetrachloroethene	ND	100	a	ND	5
Toluene	260	100	a,b	ND	5
1,2,3-Trichlorobenzene	ND	100	a	ND	5
1,2,4-Trichlorobenzene	ND	100	a	ND	5
1,1,1-Trichloroethane	ND	100	a	ND	5
1,1,2-Trichloroethane	ND	100	a	ND	5
Trichloroethene	15000	500	a,c	ND	5
Trichlorofluoromethane	ND	100	a	ND	5
1,2,3-Trichloropropane	ND	100	a	ND	5
1,2,4-Trimethylbenzene	ND	100	a	ND	5
1,3,5-Trimethylbenzene	ND	100	a	ND	5
Vinyl acetate	ND	200	a	ND	10
Vinyl chloride	ND	200	a	ND	10
m,p-Xylenes	ND	100	a	ND	5
o-Xylene	ND	100	a	ND	5

Analytical Notes

a - Raised detection limit due to sample interference.

b - Result from a 1:20 dilution.

c - Result from a 1:100 dilution.

Quality Control Data Summary

Surrogate Recovery Data

Compound	Spike Amount (ug/L)	Percent Recovery	QC Limits
Toluene-d8	50	102	88-110
Bromofluorobenzene	50	95	86-115
Dibromofluoromethane	50	108	76-114

Laboratory Control Sample, Matrix Spike/Matrix Spike Duplicate Data

Batch I.D.: 10872DC7 Sample I.D.: 213865-003

Compounds	Spike Amt. (ug/L)	LCS %Rec.	QC Limits	Spike %Rec.	Spk Dup %Rec.	QC Limits	RPD	QC Limits
1,1-Dichloroethene	25	91	80-120	88	90	61-145	2	14
Benzene	25	105	80-120	104	105	76-127	1	11
Trichloroethene	25	110	80-120	104	100	71-120	4	14
Toluene	25	109	80-120	108	105	76-125	3	13
Chlorobenzene	25	106	80-120	110	111	75-130	1	13

VOLATILE ORGANICS

Client I.D.: WCC1D-14
Laboratory I.D.: 213841-003
Client: KENNEDY/JENKS

Matrix: Liquid
Method: EPA 8260
Extraction: EPA 5030 Purge & Trap

Compound	Result (ug/L)	Detection Limit	Analytical Notes	Method Blank	Detection Limit
Acetone	ND	10		ND	10
Benzene	ND	5		ND	5
Bromobenzene	ND	5		ND	5
Bromochloromethane	ND	5		ND	5
Bromodichloromethane	ND	5		ND	5
Bromoform	ND	5		ND	5
Bromomethane	ND	10		ND	10
2-Butanone	ND	10		ND	10
n-Butylbenzene	ND	5		ND	5
sec-Butylbenzene	ND	5		ND	5
tert-Butylbenzene	ND	5		ND	5
Carbon disulfide	ND	5		ND	5
Carbon tetrachloride	ND	5		ND	5
Chlorobenzene	ND	5		ND	5
Chloroethane	ND	10		ND	10
2-Chloroethyl vinyl ether	ND	10		ND	10
Chloroform	ND	5		ND	5
Chloromethane	ND	10		ND	10
2-Chlorotoluene	ND	5		ND	5
4-Chlorotoluene	ND	5		ND	5
Dibromochloromethane	ND	5		ND	5
1,2-Dibromo-3-chloropropane	ND	5		ND	5
1,2-Dibromoethane	ND	5		ND	5
Dibromomethane	ND	5		ND	5
1,2-Dichlorobenzene	ND	5		ND	5
1,3-Dichlorobenzene	ND	5		ND	5
1,4-Dichlorobenzene	ND	5		ND	5
Dichlorodifluoromethane	ND	10		ND	10
1,1-Dichloroethane	ND	5		ND	5
1,2-Dichloroethane	ND	5		ND	5
1,1-Dichloroethene	ND	5		ND	5
cis-1,2-Dichloroethene	ND	5		ND	5
trans-1,2-Dichloroethene	ND	5		ND	5
1,2-Dichloropropane	ND	5		ND	5
1,3-Dichloropropane	ND	5		ND	5
2,2-Dichloropropane	ND	5		ND	5
1,1-Dichloropropene	ND	5		ND	5
cis-1,3-Dichloropropene	ND	5		ND	5
trans-1,3-Dichloropropene	ND	5		ND	5
Ethylbenzene	ND	5		ND	5
Freon 113	ND	5		ND	5
Hexachlorobutadiene	ND	5		ND	5
2-Hexanone	ND	10		ND	10
Isopropylbenzene	ND	5		ND	5
p-Isopropyltoluene	ND	5		ND	5
Methylene chloride	ND	5		ND	5
4-Methyl-2-pentanone	ND	10		ND	10
Naphthalene	ND	5		ND	5
n-Propylbenzene	ND	5		ND	5

Analytical Notes

	Sample	Method Blank
Date Sampled:	2/29/96	N/A
Date Analyzed:	3/05/96	3/05/96

(continued on next page)

VOLATILE ORGANICS

Client I.D.: WCC1D-14
Laboratory I.D.: 213841-003
Client: KENNEDY/JENKS

Matrix: Liquid
Method: EPA 8260
Extraction: EPA 5030 Purge & Trap

(continued from previous page)

Compound	Result (ug/L)	Detection Limit	Analytical Notes	Method Blank	Detection Limit	Analytical Notes
Styrene	ND	5		ND	5	
1,1,1,2-Tetrachloroethane	ND	5		ND	5	
1,1,2,2-Tetrachloroethane	ND	5		ND	5	
Tetrachloroethene	ND	5		ND	5	
Toluene	ND	5		ND	5	
1,2,3-Trichlorobenzene	ND	5		ND	5	
1,2,4-Trichlorobenzene	ND	5		ND	5	
1,1,1-Trichloroethane	ND	5		ND	5	
1,1,2-Trichloroethane	ND	5		ND	5	
Trichloroethene	ND	5		ND	5	
Trichlorofluoromethane	ND	5		ND	5	
1,2,3-Trichloropropane	ND	5		ND	5	
1,2,4-Trimethylbenzene	ND	5		ND	5	
1,3,5-Trimethylbenzene	ND	5		ND	5	
Vinyl acetate	ND	10		ND	10	
Vinyl chloride	ND	10		ND	10	
m,p-Xylenes	ND	5		ND	5	
o-Xylene	ND	5		ND	5	

Quality Control Data Summary

Surrogate Recovery Data

Compound	Spike Amount (ug/L)	Percent Recovery	QC Limits
Toluene-d8	50	99	88-110
Bromofluorobenzene	50	92	86-115
Dibromofluoromethane	50	102	76-114

Laboratory Control Sample, Matrix Spike/Matrix Spike Duplicate Data
Batch I.D.: 10813DC5 Sample I.D.: 213813-007

Compounds	Spike Amt. (ug/L)	LCS %Rec.	QC Limits	Spike %Rec.	Spk Dup %Rec.	QC Limits	RPD	QC Limits
1,1-Dichloroethene	25	83	80-120	95	85	61-145	11	14
Benzene	25	102	80-120	106	98	76-127	8	11
Trichloroethene	25	111	80-120	113	101	71-120	11	14
Toluene	25	102	80-120	114	104	76-125	9	13
Chlorobenzene	25	104	80-120	113	107	75-130	5	13

VOLATILE ORGANICS

Client I.D.: WCC3D-14
Laboratory I.D.: 213865-003
Client: KENNEDY/JENKS

Matrix: Liquid
Method: EPA 8260
Extraction: EPA 5030 Purge & Trap

Compound	Result (ug/L)	Detection Limit	Analytical Notes	Method Blank	Detection Limit
Acetone	ND	10		ND	10
Benzene	ND	5		ND	5
Bromobenzene	ND	5		ND	5
Bromochloromethane	ND	5		ND	5
Bromodichloromethane	ND	5		ND	5
Bromoform	ND	5		ND	5
Bromomethane	ND	10		ND	10
2-Butanone	ND	10		ND	10
n-Butylbenzene	ND	5		ND	5
sec-Butylbenzene	ND	5		ND	5
tert-Butylbenzene	ND	5		ND	5
Carbon disulfide	ND	5		ND	5
Carbon tetrachloride	ND	5		ND	5
Chlorobenzene	ND	5		ND	5
Chloroethane	ND	10		ND	10
2-Chloroethyl vinyl ether	ND	10		ND	10
Chloroform	ND	5		ND	5
Chloromethane	ND	10		ND	10
2-Chlorotoluene	ND	5		ND	5
4-Chlorotoluene	ND	5		ND	5
Dibromochloromethane	ND	5		ND	5
1,2-Dibromo-3-chloropropane	ND	5		ND	5
1,2-Dibromoethane	ND	5		ND	5
Dibromomethane	ND	5		ND	5
1,2-Dichlorobenzene	ND	5		ND	5
1,3-Dichlorobenzene	ND	5		ND	5
1,4-Dichlorobenzene	ND	5		ND	5
Dichlorodifluoromethane	ND	10		ND	10
1,1-Dichloroethane	ND	5		ND	5
1,2-Dichloroethane	ND	5		ND	5
1,1-Dichloroethene	53	5		ND	5
cis-1,2-Dichloroethene	ND	5		ND	5
trans-1,2-Dichloroethene	ND	5		ND	5
1,2-Dichloropropane	ND	5		ND	5
1,3-Dichloropropane	ND	5		ND	5
2,2-Dichloropropane	ND	5		ND	5
1,1-Dichloropropene	ND	5		ND	5
cis-1,3-Dichloropropene	ND	5		ND	5
trans-1,3-Dichloropropene	ND	5		ND	5
Ethylbenzene	ND	5		ND	5
Freon 113	ND	5		ND	5
Hexachlorobutadiene	ND	5		ND	5
2-Hexanone	ND	10		ND	10
Isopropylbenzene	ND	5		ND	5
p-Isopropyltoluene	ND	5		ND	5
Methylene chloride	ND	5		ND	5
4-Methyl-2-pentanone	ND	10		ND	10
Naphthalene	ND	5		ND	5
n-Propylbenzene	ND	5		ND	5

Analytical Notes

	Sample	Method Blank
Date Sampled:	3/04/96	N/A
Date Analyzed:	3/06/96	3/06/96

(continued on next page)

VOLATILE ORGANICS

Client I.D.: WCC3D-14
Laboratory I.D.: 213865-003
Client: KENNEDY/JENKS

Matrix: Liquid
Method: EPA 8260
Extraction: EPA 5030 Purge & Trap

(continued from previous page)

Compound	Result (ug/L)	Detection Limit	Analytical Notes	Method Blank	Detection Limit
Styrene	ND	5		ND	5
1,1,1,2-Tetrachloroethane	ND	5		ND	5
1,1,2,2-Tetrachloroethane	ND	5		ND	5
Tetrachloroethene	ND	5		ND	5
Toluene	6	5		ND	5
1,2,3-Trichlorobenzene	ND	5		ND	5
1,2,4-Trichlorobenzene	ND	5		ND	5
1,1,1-Trichloroethane	40	5		ND	5
1,1,2-Trichloroethane	ND	5		ND	5
Trichloroethene	23	5		ND	5
Trichlorofluoromethane	ND	5		ND	5
1,2,3-Trichloropropane	ND	5		ND	5
1,2,4-Trimethylbenzene	ND	5		ND	5
1,3,5-Trimethylbenzene	ND	5		ND	5
Vinyl acetate	ND	10		ND	10
Vinyl chloride	ND	10		ND	10
m,p-Xylenes	ND	5		ND	5
o-Xylene	ND	5		ND	5

Analytical Notes

Quality Control Data Summary

Surrogate Recovery Data

Compound	Spike Amount (ug/L)	Percent Recovery	QC Limits
Toluene-d8	50	97	88-110
Bromofluorobenzene	50	90	86-115
Dibromofluoromethane	50	108	76-114

Laboratory Control Sample, Matrix Spike/Matrix Spike Duplicate Data

Batch I.D.: 10872DC6 Sample I.D.: 213865-003

Compounds	Spike Amt. (ug/L)	LCS %Rec.	QC Limits	Spike %Rec.	Spk Dup %Rec.	QC Limits	RPD	QC Limits
1,1-Dichloroethene	25	89	80-120	88	90	61-145	2	14
Benzene	25	105	80-120	104	105	76-127	1	11
Trichloroethene	25	112	80-120	104	100	71-120	4	14
Toluene	25	110	80-120	108	105	76-125	3	13
Chlorobenzene	25	111	80-120	110	111	75-130	1	13

APPENDIX B

LABORATORY/FIELD QUALITY CONTROL DATA SHEETS

)LATILE ORGANICS

ıt I.D.: DW-022996
›ratory I.D.: 213841-004
ıt: KENNEDY/JENKS

Matrix: Liquid
Method: EPA 8260
Extraction: EPA 5030 Purge & Trap

Compound	Result (ug/L)	Detection Limit	Analytical Notes	Method Blank	Detection Limit
tone	ND	10		ND	10
zene	ND	5		ND	5
nobenzene	ND	5		ND	5
nochloromethane	ND	5		ND	5
nodichloromethane	ND	5		ND	5
moform	ND	5		ND	5
momethane	ND	10		ND	10
utanone	ND	10		ND	10
utylbenzene	ND	5		ND	5
-Butylbenzene	ND	5		ND	5
-Butylbenzene	ND	5		ND	5
bon disulfide	ND	5		ND	5
bon tetrachloride	ND	5		ND	5
orobenzene	ND	5		ND	5
oroethane	ND	10		ND	10
hloroethyl vinyl ether	ND	10		ND	10
loroform	ND	5		ND	5
loromethane	ND	10		ND	10
hlorotoluene	ND	5		ND	5
hlorotoluene	ND	5		ND	5
romochloromethane	ND	5		ND	5
-Dibromo-3-chloropropane	ND	5		ND	5
-Dibromoethane	ND	5		ND	5
romomethane	ND	5		ND	5
-Dichlorobenzene	ND	5		ND	5
-Dichlorobenzene	ND	5		ND	5
-Dichlorobenzene	ND	5		ND	5
chlorodifluoromethane	ND	10		ND	10
1-Dichloroethane	ND	5		ND	5
2-Dichloroethane	ND	5		ND	5
1-Dichloroethene	ND	5		ND	5
s-1,2-Dichloroethene	ND	5		ND	5
ans-1,2-Dichloroethene	ND	5		ND	5
2-Dichloropropane	ND	5		ND	5
3-Dichloropropane	ND	5		ND	5
2-Dichloropropane	ND	5		ND	5
1-Dichloropropene	ND	5		ND	5
s-1,3-Dichloropropene	ND	5		ND	5
ans-1,3-Dichloropropene	ND	5		ND	5
thylbenzene	ND	5		ND	5
reon 113	ND	5		ND	5
lexachlorobutadiene	ND	5		ND	5
-Hexanone	ND	10		ND	10
sopropylbenzene	ND	5		ND	5
-Isopropyltoluene	ND	5		ND	5
Methylene chloride	ND	5		ND	5
-Methyl-2-pentanone	ND	10		ND	10
Naphthalene	ND	5		ND	5
-Propylbenzene	ND	5		ND	5

Analytical Notes

	Sample	Method Blank
Date Sampled:	2/29/96	N/A
Date Analyzed:	3/05/96	3/05/96

(continued on next page)

VOLATILE ORGANICS

Client I.D.: DW-022996
Laboratory I.D.: 213841-004
Client: KENNEDY/JENKS

Matrix: Liquid
Method: EPA 8260
Extraction: EPA 5030 Purge & Trap

(continued from previous page)

Compound	Result (ug/L)	Detection Limit	Analytical Notes	Method Blank	Detection Limit
Styrene	ND	5		ND	5
,1,1,2-Tetrachloroethane	ND	5		ND	5
,1,2,2-Tetrachloroethane	ND	5		ND	5
Tetrachloroethene	ND	5		ND	5
Toluene	ND	5		ND	5
,2,3-Trichlorobenzene	ND	5		ND	5
,2,4-Trichlorobenzene	ND	5		ND	5
,1,1-Trichloroethane	ND	5		ND	5
,1,2-Trichloroethane	ND	5		ND	5
Trichloroethene	ND	5		ND	5
Trichlorofluoromethane	ND	5		ND	5
,2,3-Trichloropropane	ND	5		ND	5
,2,4-Trimethylbenzene	ND	5		ND	5
,3,5-Trimethylbenzene	ND	5		ND	5
Vinyl acetate	ND	10		ND	10
Vinyl chloride	ND	10		ND	10
m,p-Xylenes	ND	5		ND	5
o-Xylene	ND	5		ND	5

Analytical Notes

Quality Control Data Summary

Surrogate Recovery Data

Compound	Spike Amount (ug/L)	Percent Recovery	QC Limits
Toluene-d8	50	97	88-110
Bromofluorobenzene	50	90	86-115
Dibromofluoromethane	50	104	76-114

Laboratory Control Sample, Matrix Spike/Matrix Spike Duplicate Data

Batch I.D.: 10813DC5 Sample I.D.: 213813-007

Compounds	Spike Amt. (ug/L)	LCS %Rec.	QC Limits	Spike %Rec.	Spk Dup %Rec.	QC Limits	RPD	QC Limits
1,1-Dichloroethene	25	83	80-120	95	85	61-145	11	14
Benzene	25	102	80-120	106	98	76-127	8	11
Trichloroethene	25	111	80-120	113	101	71-120	11	14
Toluene	25	102	80-120	114	104	76-125	9	13
Chlorobenzene	25	104	80-120	113	107	75-130	5	13

)LATILE ORGANICS

nt I.D.: EB-022996
oratory I.D.: 213841-005
nt: KENNEDY/JENKS

Matrix: Liquid
Method: EPA 8260
Extraction: EPA 5030 Purge & Trap

Compound	Result (ug/L)	Detection Limit	Analytical Notes	Method Blank	Detection Limit
tone	ND	10		ND	10
izene	ND	5		ND	5
mobenzene	ND	5		ND	5
mochloromethane	ND	5		ND	5
modichloromethane	ND	5		ND	5
moform	ND	5		ND	5
momethane	ND	10		ND	10
utanone	ND	10		ND	10
utylbenzene	ND	5		ND	5
-Butylbenzene	ND	5		ND	5
-Butylbenzene	ND	5		ND	5
rbon disulfide	ND	5		ND	5
rbon tetrachloride	ND	5		ND	5
lorobenzene	ND	5		ND	5
loroethane	ND	10		ND	10
Chloroethyl vinyl ether	ND	10		ND	10
loroform	ND	5		ND	5
loromethane	ND	10		ND	10
Chlorotoluene	ND	5		ND	5
Chlorotoluene	ND	5		ND	5
bromochloromethane	ND	5		ND	5
2-Dibromo-3-chloropropane	ND	5		ND	5
2-Dibromoethane	ND	5		ND	5
bromomethane	ND	5		ND	5
2-Dichlorobenzene	ND	5		ND	5
3-Dichlorobenzene	ND	5		ND	5
4-Dichlorobenzene	ND	5		ND	5
ichlorodifluoromethane	ND	10		ND	10
1-Dichloroethane	ND	5		ND	5
2-Dichloroethane	ND	5		ND	5
1-Dichloroethene	ND	5		ND	5
s-1,2-Dichloroethene	ND	5		ND	5
ans-1,2-Dichloroethene	ND	5		ND	5
2-Dichloropropane	ND	5		ND	5
,3-Dichloropropane	ND	5		ND	5
,2-Dichloropropane	ND	5		ND	5
,1-Dichloropropene	ND	5		ND	5
is-1,3-Dichloropropene	ND	5		ND	5
ans-1,3-Dichloropropene	ND	5		ND	5
thylbenzene	ND	5		ND	5
reon 113	ND	5		ND	5
lexachlorobutadiene	ND	5		ND	5
-Hexanone	ND	10		ND	10
sopropylbenzene	ND	5		ND	5
-Isopropyltoluene	ND	5		ND	5
Methylene chloride	ND	5		ND	5
-Methyl-2-pentanone	ND	10		ND	10
Naphthalene	ND	5		ND	5
-Propylbenzene	ND	5		ND	5

Analytical Notes

	Sample	Method Blank
Date Sampled:	2/29/96	N/A
Date Analyzed:	3/05/96	3/05/96

(continued on next page)

VOLATILE ORGANICS

Client I.D.: EB-022996
Laboratory I.D.: 213841-005
Client: KENNEDY/JENKS

Matrix: Liquid
Method: EPA 8260
Extraction: EPA 5030 Purge & Trap

(continued from previous page)

Compound	Result (ug/L)	Detection Limit	Analytical Notes	Method Blank	Detection Limit
Styrene	ND	5		ND	5
1,1,1,2-Tetrachloroethane	ND	5		ND	5
1,1,2,2-Tetrachloroethane	ND	5		ND	5
Tetrachloroethene	ND	5		ND	5
Toluene	ND	5		ND	5
1,2,3-Trichlorobenzene	ND	5		ND	5
1,2,4-Trichlorobenzene	ND	5		ND	5
1,1,1-Trichloroethane	ND	5		ND	5
1,1,2-Trichloroethane	ND	5		ND	5
Trichloroethene	ND	5		ND	5
Trichlorofluoromethane	ND	5		ND	5
1,2,3-Trichloropropane	ND	5		ND	5
1,2,4-Trimethylbenzene	ND	5		ND	5
1,3,5-Trimethylbenzene	ND	5		ND	5
Vinyl acetate	ND	10		ND	10
Vinyl chloride	ND	10		ND	10
m,p-Xylenes	ND	5		ND	5
o-Xylene	ND	5		ND	5

Analytical Notes

Quality Control Data Summary

Surrogate Recovery Data

Compound	Spike Amount (ug/L)	Percent Recovery	QC Limits
Toluene-d8	50	100	88-110
Bromofluorobenzene	50	94	86-115
Dibromofluoromethane	50	102	76-114

Laboratory Control Sample, Matrix Spike/Matrix Spike Duplicate Data

Batch I.D.: 10813DC5 Sample I.D.: 213813-007

Compounds	Spike Amt. (ug/L)	LCS %Rec.	QC Limits	Spike %Rec.	Spk Dup %Rec.	QC Limits	RPD	QC Limits
1,1-Dichloroethene	25	83	80-120	95	85	61-145	11	14
Benzene	25	102	80-120	106	98	76-127	8	11
Trichloroethene	25	111	80-120	113	101	71-120	11	14
Toluene	25	102	80-120	114	104	76-125	9	13
Chlorobenzene	25	104	80-120	113	107	75-130	5	13

OLATILE ORGANICS

ent I.D.: TRIP BLANK
oratory I.D.: 213841-006
ent: KENNEDY/JENKS

Matrix: Liquid
Method: EPA 8260
Extraction: EPA 5030 Purge & Trap

Compound	Result (ug/L)	Detection Limit	Analytical Notes	Method Blank	Detection Limit
etone	ND	10		ND	10
nzene	ND	5		ND	5
omobenzene	ND	5		ND	5
omochloromethane	ND	5		ND	5
omodichloromethane	ND	5		ND	5
omoform	ND	5		ND	5
omomethane	ND	10		ND	10
Butanone	ND	10		ND	10
Butylbenzene	ND	5		ND	5
c-Butylbenzene	ND	5		ND	5
t-Butylbenzene	ND	5		ND	5
rbon disulfide	ND	5		ND	5
rbon tetrachloride	ND	5		ND	5
lorobenzene	ND	5		ND	5
loroethane	ND	10		ND	10
Chloroethyl vinyl ether	ND	10		ND	10
loroform	ND	5		ND	5
loromethane	ND	10		ND	10
Chlorotoluene	ND	5		ND	5
Chlorotoluene	ND	5		ND	5
romochloromethane	ND	5		ND	5
2-Dibromo-3-chloropropane	ND	5		ND	5
2-Dibromoethane	ND	5		ND	5
romomethane	ND	5		ND	5
2-Dichlorobenzene	ND	5		ND	5
3-Dichlorobenzene	ND	5		ND	5
4-Dichlorobenzene	ND	5		ND	5
chlorodifluoromethane	ND	10		ND	10
1-Dichloroethane	ND	5		ND	5
2-Dichloroethane	ND	5		ND	5
1-Dichloroethene	ND	5		ND	5
s-1,2-Dichloroethene	ND	5		ND	5
ans-1,2-Dichloroethene	ND	5		ND	5
2-Dichloropropane	ND	5		ND	5
3-Dichloropropane	ND	5		ND	5
2-Dichloropropane	ND	5		ND	5
1-Dichloropropene	ND	5		ND	5
s-1,3-Dichloropropene	ND	5		ND	5
ans-1,3-Dichloropropene	ND	5		ND	5
hylbenzene	ND	5		ND	5
eon 113	ND	5		ND	5
exachlorobutadiene	ND	5		ND	5
Hexanone	ND	10		ND	10
opropylbenzene	ND	5		ND	5
Isopropyltoluene	ND	5		ND	5
ethylene chloride	ND	5		ND	5
Methyl-2-pentanone	ND	10		ND	10
aphthalene	ND	5		ND	5
Propylbenzene	ND	5		ND	5

Analytical Notes

	Sample	Method Blank
Date Sampled:	2/29/96	N/A
Date Analyzed:	3/05/96	3/05/96

(continued on next page)

OLATILE ORGANICS

ent I.D.: TRIP BLANK
oratory I.D.: 213841-006
ent: KENNEDY/JENKS

Matrix: Liquid
Method: EPA 8260
Extraction: EPA 5030 Purge & Trap

(continued from previous page)

Compound	Result (ug/L)	Detection Limit	Analytical Notes	Method Blank	Detection Limit
rene	ND	5		ND	5
,1,2-Tetrachloroethane	ND	5		ND	5
,2,2-Tetrachloroethane	ND	5		ND	5
tracnloroethene	ND	5		ND	5
luene	ND	5		ND	5
,3-Trichlorobenzene	ND	5		ND	5
,4-Trichlorobenzene	ND	5		ND	5
,1-Trichloroethane	ND	5		ND	5
,2-Trichloroethane	ND	5		ND	5
chloroethene	ND	5		ND	5
chlorofluoromethane	ND	5		ND	5
,3-Trichloropropane	ND	5		ND	5
,4-Trimethylbenzene	ND	5		ND	5
,5-Trimethylbenzene	ND	5		ND	5
yl acetate	ND	10		ND	10
yl chloride	ND	10		ND	10
p-Xylenes	ND	5		ND	5
Xylene	ND	5		ND	5

Analytical Notes

Quality Control Data Summary

Surrogate Recovery Data

ompound	Spike Amount (ug/L)	Percent Recovery	QC Limits
oluene-d8	50	98	88-110
romofluorobenzene	50	92	86-115
ibromofluoromethane	50	104	76-114

Laboratory Control Sample, Matrix Spike/Matrix Spike Duplicate Data

Batch I.D.: 10813DC5 Sample I.D.: 213813-007

Compounds	Spike Amt. (ug/L)	LCS %Rec.	QC Limits	Spike %Rec.	Spk Dup %Rec.	QC Limits	RPD	QC Limits
1,1-Dichloroethene	25	83	80-120	95	85	61-145	11	14
Benzene	25	102	80-120	106	98	76-127	8	11
Trichloroethene	25	111	80-120	113	101	71-120	11	14
Toluene	25	102	80-120	114	104	76-125	9	13
Chlorobenzene	25	104	80-120	113	107	75-130	5	13

OLATILE ORGANICS

ent I.D.: DW-030196
oratory I.D.: 213838-008
ent: KENNEDY/JENKS

Matrix: Liquid
Method: EPA 8260
Extraction: EPA 5030 Purge & Trap

Compound	Result (ug/L)	Detection Limit	Analytical Notes	Method Blank	Detection Limit
etone	ND	40	b	ND	10
nzene	ND	20	b	ND	5
omobenzene	ND	20	b	ND	5
omochloromethane	ND	20	b	ND	5
omodichloromethane	ND	20	b	ND	5
omoform	ND	20	b	ND	5
omomethane	ND	40	b	ND	10
Butanone	ND	40	b	ND	10
Butylbenzene	ND	20	b	ND	5
c-Butylbenzene	ND	20	b	ND	5
t-Butylbenzene	ND	20	b	ND	5
arbon disulfide	ND	20	b	ND	5
arbon tetrachloride	ND	20	b	ND	5
hlorobenzene	ND	20	b	ND	5
hloroethane	ND	40	b	ND	10
Chloroethyl vinyl ether	ND	40	b	ND	10
hloroform	ND	20	b	ND	5
hloromethane	ND	40	b	ND	10
Chlorotoluene	ND	20	b	ND	5
Chlorotoluene	ND	20	b	ND	5
ibromochloromethane	ND	20	b	ND	5
2-Dibromo-3-chloropropane	ND	20	b	ND	5
2-Dibromoethane	ND	20	b	ND	5
ibromomethane	ND	20	b	ND	5
2-Dichlorobenzene	ND	20	b	ND	5
3-Dichlorobenzene	ND	20	b	ND	5
4-Dichlorobenzene	ND	20	b	ND	5
ichlorodifluoromethane	ND	40	b	ND	10
1-Dichloroethane	ND	20	b	ND	5
2-Dichloroethane	ND	20	b	ND	5
1-Dichloroethene	3600	100	b,d	ND	5
s-1,2-Dichloroethene	ND	20	b	ND	5
ans-1,2-Dichloroethene	41	20	b,c	ND	5
2-Dichloropropane	ND	20	b	ND	5
3-Dichloropropane	ND	20	b	ND	5
2-Dichloropropane	ND	20	b	ND	5
1-Dichloropropene	ND	20	b	ND	5
s-1,3-Dichloropropene	ND	20	b	ND	5
ans-1,3-Dichloropropene	ND	20	b	ND	5
thylbenzene	ND	20	b	ND	5
reon 113	ND	20	b	ND	5
exachlorobutadiene	ND	20	b	ND	5
-Hexanone	ND	40	b	ND	10
sopropylbenzene	ND	20	b	ND	5
-Isopropyltoluene	ND	20	b	ND	5
ethylene chloride	ND	20	b	ND	5
-Methyl-2-pentanone	ND	40	b	ND	10
aphthalene	ND	20	b	ND	5
-Propylbenzene	ND	20	b	ND	5

Analytical Notes

b - Raised detection limit due to sample interference.

c - Result from a 1:4 dilution.

d - Result from a 1:20 dilution.

	Sample	Method Blank
Date Sampled:	3/01/96	N/A
Date Analyzed:	3/07/96	3/07/96

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OLATILE ORGANICS

ent I.D.: DW-030196
oratory I.D.: 213838-008
ent: KENNEDY/JENKS

Matrix: Liquid
Method: EPA 8260
Extraction: EPA 5030 Purge & Trap

(continued from previous page)

Compound	Result (ug/L)	Detection Limit	Analytical Notes	Method Blank	Detection Limit
rene	ND	20	b	ND	5
,1,2-Tetrachloroethane	ND	20	b	ND	5
,2,2-Tetrachloroethane	ND	20	b	ND	5
rachloroethene	ND	20	b	ND	5
uene	ND	20	b	ND	5
,3-Trichlorobenzene	ND	20	b	ND	5
,4-Trichlorobenzene	ND	20	b	ND	5
,1-Trichloroethane	120	20	b,c	ND	5
,2-Trichloroethane	ND	20	b	ND	5
chloroethene	2200	100	b,d	ND	5
chlorofluoromethane	ND	20	b	ND	5
,3-Trichloropropane	ND	20	b	ND	5
,4-Trimethylbenzene	ND	20	b	ND	5
,5-Trimethylbenzene	ND	20	b	ND	5
yl acetate	ND	40	b	ND	10
yl chloride	ND	40	b	ND	10
p-Xylenes	ND	20	b	ND	5
Xylene	ND	20	b	ND	5

Analytical Notes

a - MS recovery out of control due to confirmed matrix effect. LCS, MSD and RPD are withinacceptance limits.

b - Raised detection limit due to sample interference.

c - Result from a 1:4 dilution.

d - Result from a 1:20 dilution.

Quality Control Data Summary

Surrogate Recovery Data

ompound	Spike Amount (ug/L)	Percent Recovery	QC Limits
oluene-d8	50	98	88-110
romofluorobenzene	50	92	86-115
ibromofluoromethane	50	107	76-114

Laboratory Control Sample, Matrix Spike/Matrix Spike Duplicate Data

Batch I.D.: 10814DC7 Sample I.D.: 213813-004

Compounds	Spike Amt. (ug/L)	LCS %Rec.	QC Limits	Spike %Rec.	Spk Dup %Rec.	QC Limits	RPD	QC Limits
1,1-Dichloroethene	25	91	80-120	93	88	61-145	6	14
Benzene	25	105	80-120	113	107	76-127	5	11
Trichloroethene	25	110	80-120	a	115	71-120	6	14
Toluene	25	109	80-120	111	103	76-125	7	13
Chlorobenzene	25	106	80-120	116	111	75-130	4	13

OLATILE ORGANICS

ent I.D.: TRAVEL BLANK
oratory I.D.: 213838-009
ent: KENNEDY/JENKS

Matrix: Liquid
Method: EPA 8260
Extraction: EPA 5030 Purge & Trap

Compound	Result (ug/L)	Detection Limit	Analytical Notes	Method Blank	Detection Limit
etone	ND	10		ND	10
nzene	ND	5		ND	5
omobenzene	ND	5		ND	5
omochloromethane	ND	5		ND	5
omodichloromethane	ND	5		ND	5
omoform	ND	5		ND	5
omomethane	ND	10		ND	10
Butanone	ND	10		ND	10
Butylbenzene	ND	5		ND	5
c-Butylbenzene	ND	5		ND	5
t-Butylbenzene	ND	5		ND	5
arbon disulfide	ND	5		ND	5
arbon tetrachloride	ND	5		ND	5
hlorobenzene	ND	5		ND	5
hloroethane	ND	10		ND	10
Chloroethyl vinyl ether	ND	10		ND	10
hloroform	ND	5		ND	5
hloromethane	ND	10		ND	10
Chlorotoluene	ND	5		ND	5
Chlorotoluene	ND	5		ND	5
bromochloromethane	ND	5		ND	5
2-Dibromo-3-chloropropane	ND	5		ND	5
2-Dibromoethane	ND	5		ND	5
ibromomethane	ND	5		ND	5
2-Dichlorobenzene	ND	5		ND	5
3-Dichlorobenzene	ND	5		ND	5
4-Dichlorobenzene	ND	5		ND	5
ichlorodifluoromethane	ND	10		ND	10
1-Dichloroethane	ND	5		ND	5
2-Dichloroethane	ND	5		ND	5
1-Dichloroethene	ND	5		ND	5
s-1,2-Dichloroethene	ND	5		ND	5
ans-1,2-Dichloroethene	ND	5		ND	5
2-Dichloropropane	ND	5		ND	5
3-Dichloropropane	ND	5		ND	5
2-Dichloropropane	ND	5		ND	5
1-Dichloropropene	ND	5		ND	5
s-1,3-Dichloropropene	ND	5		ND	5
ans-1,3-Dichloropropene	ND	5		ND	5
thylbenzene	ND	5		ND	5
reon 113	ND	5		ND	5
lexachlorobutadiene	ND	5		ND	5
-Hexanone	ND	10		ND	10
sopropylbenzene	ND	5		ND	5
-Isopropyltoluene	ND	5		ND	5
Methylene chloride	ND	5		ND	5
-Methyl-2-pentanone	ND	10		ND	10
Naphthalene	ND	5		ND	5
n-Propylbenzene	ND	5		ND	5

Analytical Notes

	Sample	Method Blank
Date Sampled:	3/01/96	N/A
Date Analyzed:	3/05/96	3/05/96

(continued on next page)

/OLATILE ORGANICS

ient I.D.: TRAVEL BLANK
aboratory I.D.: 213838-009
ient: KENNEDY/JENKS

Matrix: Liquid
Method: EPA 8260
Extraction: EPA 5030 Purge & Trap

(continued from previous page)

Compound	Result (ug/L)	Detection Limit	Analytical Notes	Method Blank	Detection Limit
yrene	ND	5		ND	5
1,1,2-Tetrachloroethane	ND	5		ND	5
1,2,2-Tetrachloroethane	ND	5		ND	5
etrachloroethene	ND	5		ND	5
oluene	ND	5		ND	5
2,3-Trichlorobenzene	ND	5		ND	5
2,4-Trichlorobenzene	ND	5		ND	5
1,1-Trichloroethane	ND	5		ND	5
1,2-Trichloroethane	ND	5		ND	5
richloroethene	ND	5		ND	5
richlorofluoromethane	ND	5		ND	5
2,3-Trichloropropane	ND	5		ND	5
2,4-Trimethylbenzene	ND	5		ND	5
3,5-Trimethylbenzene	ND	5		ND	5
inyl acetate	ND	10		ND	10
nyl chloride	ND	10		ND	10
,p-Xylenes	ND	5		ND	5
Xylene	ND	5		ND	5

Analytical Notes

a - MS recovery out of control due to confirmed matrix effect. LCS, MSD and RPD are within acceptance limits.

Quality Control Data Summary

Surrogate Recovery Data

ompound	Spike Amount (ug/L)	Percent Recovery	QC Limits
oluene-d8	50	96	88-110
romofluorobenzene	50	90	86-115
ibromofluoromethane	50	104	76-114

Laboratory Control Sample, Matrix Spike/Matrix Spike Duplicate Data
Batch I.D.: 10814DC5 Sample I.D.: 213813-004

Compounds	Spike Amt. (ug/L)	LCS %Rec.	QC Limits	Spike %Rec.	Spk Dup %Rec.	QC Limits	RPD	QC Limits
1,1-Dichloroethene	25	83	80-120	93	88	61-145	6	14
Benzene	25	102	80-120	113	107	76-127	5	11
Trichloroethene	25	111	80-120	a	115	71-120	6	14
Toluene	25	102	80-120	111	103	76-125	7	13
Chlorobenzene	25	104	80-120	116	111	75-130	4	13

/OLATILE ORGANICS

lient I.D.: EB-030196
aboratory I.D.: 213838-006
lient: KENNEDY/JENKS

Matrix: Liquid
Method: EPA 8260
Extraction: EPA 5030 Purge & Trap

Compound	Result (ug/L)	Detection Limit	Analytical Notes	Method Blank	Detection Limit
cetone	ND	10		ND	10
enzene	ND	5		ND	5
romobenzene	ND	5		ND	5
romochloromethane	ND	5		ND	5
romodichloromethane	8	5		ND	5
romoform	ND	5		ND	5
romomethane	ND	10		ND	10
-Butanone	ND	10		ND	10
-Butylbenzene	ND	5		ND	5
ec-Butylbenzene	ND	5		ND	5
rt-Butylbenzene	ND	5		ND	5
arbon disulfide	ND	5		ND	5
arbon tetrachloride	ND	5		ND	5
hlorobenzene	ND	5		ND	5
hloroethane	ND	10		ND	10
-Chloroethyl vinyl ether	ND	10		ND	10
hloroform	10	5		ND	5
hloromethane	ND	10		ND	10
-Chlorotoluene	ND	5		ND	5
-Chlorotoluene	ND	5		ND	5
ibromochloromethane	ND	5		ND	5
,2-Dibromo-3-chloropropane	ND	5		ND	5
2-Dibromoethane	ND	5		ND	5
ibromomethane	ND	5		ND	5
,2-Dichlorobenzene	ND	5		ND	5
,3-Dichlorobenzene	ND	5		ND	5
,4-Dichlorobenzene	ND	5		ND	5
ichlorodifluoromethane	ND	10		ND	10
,1-Dichloroethane	ND	5		ND	5
,2-Dichloroethane	ND	5		ND	5
,1-Dichloroethene	ND	5		ND	5
s-1,2-Dichloroethene	ND	5		ND	5
ans-1,2-Dichloroethene	ND	5		ND	5
,2-Dichloropropane	ND	5		ND	5
,3-Dichloropropane	ND	5		ND	5
,2-Dichloropropane	ND	5		ND	5
,1-Dichloropropene	ND	5		ND	5
s-1,3-Dichloropropene	ND	5		ND	5
ans-1,3-Dichloropropene	ND	5		ND	5
thylbenzene	ND	5		ND	5
reon 113	ND	5		ND	5
exachlorobutadiene	ND	5		ND	5
-Hexanone	ND	10		ND	10
sopropylbenzene	ND	5		ND	5
-Isopropyltoluene	ND	5		ND	5
lethylene chloride	ND	5		ND	5
-Methyl-2-pentanone	ND	10		ND	10
aphthalene	ND	5		ND	5
-Propylbenzene	ND	5		ND	5

Analytical Notes

	Sample	Method Blank
Date Sampled:	3/01/96	N/A
Date Analyzed:	3/05/96	3/05/96

(continued on next page)

OLATILE ORGANICS

ent I.D.: EB-030196
oratory I.D.: 213838-006
ent: KENNEDY/JENKS

Matrix: Liquid
Method: EPA 8260
Extraction: EPA 5030 Purge & Trap

(continued from previous page)

Compound	Result (ug/L)	Detection Limit	Analytical Notes	Method Blank	Detection Limit
rene	ND	5		ND	5
,1,2-Tetrachloroethane	ND	5		ND	5
,2,2-Tetrachloroethane	ND	5		ND	5
trachloroethene	ND	5		ND	5
luene	ND	5		ND	5
2,3-Trichlorobenzene	ND	5		ND	5
2,4-Trichlorobenzene	ND	5		ND	5
1,1-Trichloroethane	ND	5		ND	5
1,2-Trichloroethane	ND	5		ND	5
ichloroethene	ND	5		ND	5
ichlorofluoromethane	ND	5		ND	5
2,3-Trichloropropane	ND	5		ND	5
2,4-Trimethylbenzene	ND	5		ND	5
3,5-Trimethylbenzene	ND	5		ND	5
nyl acetate	ND	10		ND	10
nyl chloride	ND	10		ND	10
.p-Xylenes	ND	5		ND	5
Xylene	ND	5		ND	5

Analytical Notes

a - MS recovery out of control due to confirmed matrix effect. LCS, MSD and RPD are within acceptance limits.

Quality Control Data Summary

Surrogate Recovery Data

ompound	Spike Amount (ug/L)	Percent Recovery	QC Limits
oluene-d8	50	98	88-110
romofluorobenzene	50	91	86-115
ibromofluoromethane	50	105	76-114

Laboratory Control Sample, Matrix Spike/Matrix Spike Duplicate Data

Batch I.D.: 10814DC5 Sample I.D.: 213813-004

Compounds	Spike Amt. (ug/L)	LCS %Rec.	QC Limits	Spike %Rec.	Spk Dup %Rec.	QC Limits	RPD	QC Limits
1,1-Dichloroethene	25	83	80-120	93	88	61-145	6	14
Benzene	25	102	80-120	113	107	76-127	5	11
Trichloroethene	25	111	80-120	a	115	71-120	6	14
Toluene	25	102	80-120	111	103	76-125	7	13
Chlorobenzene	25	104	80-120	116	111	75-130	4	13

VOLATILE ORGANICS

Client I.D.: EB-030496
Laboratory I.D.: 213865-006
Client: KENNEDY/JENKS

Matrix: Liquid
Method: EPA 8260
Extraction: EPA 5030 Purge & Trap

Compound	Result (ug/L)	Detection Limit	Analytical Notes	Method Blank	Detection Limit
Acetone	ND	10		ND	10
Benzene	ND	5		ND	5
Bromobenzene	ND	5		ND	5
Bromochloromethane	ND	5		ND	5
Bromodichloromethane	ND	5		ND	5
Bromoform	ND	5		ND	5
Bromomethane	ND	10		ND	10
2-Butanone	ND	10		ND	10
n-Butylbenzene	ND	5		ND	5
sec-Butylbenzene	ND	5		ND	5
tert-Butylbenzene	ND	5		ND	5
Carbon disulfide	ND	5		ND	5
Carbon tetrachloride	ND	5		ND	5
Chlorobenzene	ND	5		ND	5
Chloroethane	ND	10		ND	10
2-Chloroethyl vinyl ether	ND	10		ND	10
Chloroform	ND	5		ND	5
Chloromethane	ND	10		ND	10
2-Chlorotoluene	ND	5		ND	5
4-Chlorotoluene	ND	5		ND	5
Dibromochloromethane	ND	5		ND	5
1,2-Dibromo-3-chloropropane	ND	5		ND	5
1,2-Dibromoethane	ND	5		ND	5
Dibromomethane	ND	5		ND	5
1,2-Dichlorobenzene	ND	5		ND	5
1,3-Dichlorobenzene	ND	5		ND	5
1,4-Dichlorobenzene	ND	5		ND	5
Dichlorodifluoromethane	ND	10		ND	10
1,1-Dichloroethane	ND	5		ND	5
1,2-Dichloroethane	ND	5		ND	5
1,1-Dichloroethene	ND	5		ND	5
cis-1,2-Dichloroethene	ND	5		ND	5
trans-1,2-Dichloroethene	ND	5		ND	5
1,2-Dichloropropane	ND	5		ND	5
1,3-Dichloropropane	ND	5		ND	5
2,2-Dichloropropane	ND	5		ND	5
1,1-Dichloropropene	ND	5		ND	5
cis-1,3-Dichloropropene	ND	5		ND	5
trans-1,3-Dichloropropene	ND	5		ND	5
Ethylbenzene	ND	5		ND	5
Freon 113	ND	5		ND	5
Hexachlorobutadiene	ND	5		ND	5
2-Hexanone	ND	10		ND	10
Isopropylbenzene	ND	5		ND	5
p-Isopropyltoluene	ND	5		ND	5
Methylene chloride	ND	5		ND	5
4-Methyl-2-pentanone	ND	10		ND	10
Naphthalene	ND	5		ND	5
n-Propylbenzene	ND	5		ND	5

Analytical Notes

	Sample	Method Blank
Date Sampled:	3/04/96	N/A
Date Analyzed:	3/06/96	3/06/96

(continued on next page)

VOLATILE ORGANICS

:lient I.D.: EB-030496
.aboratory I.D.: 213865-006
:lient: KENNEDY/JENKS

Matrix: Liquid
Method: EPA 8260
Extraction: EPA 5030 Purge & Trap

(continued from previous page)

Compound	Result (ug/L)	Detection Limit	Analytical Notes	Method Blank	Detection Limit
:tyrene	ND	5		ND	5
,1,1,2-Tetrachloroethane	ND	5		ND	5
,1,2,2-Tetrachloroethane	ND	5		ND	5
'etrachloroethene	ND	5		ND	5
'oluene	ND	5		ND	5
,2,3-Trichlorobenzene	ND	5		ND	5
,2,4-Trichlorobenzene	ND	5		ND	5
,1,1-Trichloroethane	ND	5		ND	5
,1,2-Trichloroethane	ND	5		ND	5
'richloroethene	ND	5		ND	5
'richlorofluoromethane	ND	5		ND	5
,2,3-Trichloropropane	ND	5		ND	5
,2,4-Trimethylbenzene	ND	5		ND	5
,3,5-Trimethylbenzene	ND	5		ND	5
/inyl acetate	ND	10		ND	10
/inyl chloride	ND	10		ND	10
n,p-Xylenes	ND	5		ND	5
)-Xylene	ND	5		ND	5

Analytical Notes

Quality Control Data Summary

Surrogate Recovery Data

:ompound	Spike Amount (ug/L)	Percent Recovery	QC Limits
'oluene-d8	50	99	88-110
3romofluorobenzene	50	91	86-115
)ibromofluoromethane	50	106	76-114

Laboratory Control Sample, Matrix Spike/Matrix Spike Duplicate Data
Batch I.D.: 10872DC6 Sample I.D.: 213865-003

Compounds	Spike Amt. (ug/L)	LCS %Rec.	QC Limits	Spike %Rec.	Spk Dup %Rec.	QC Limits	RPD	QC Limits
1,1-Dichloroethene	25	89	80-120	88	90	61-145	2	14
Benzene	25	105	80-120	104	105	76-127	1	11
Trichloroethene	25	112	80-120	104	100	71-120	4	14
Toluene	25	110	80-120	108	105	76-125	3	13
Chlorobenzene	25	111	80-120	110	111	75-130	1	13

VOLATILE ORGANICS

:lient I.D.: DW-0304969
aboratory I.D.: 213865-008
:lient: KENNEDY/JENKS

Matrix: Liquid
Method: EPA 8260
Extraction: EPA 5030 Purge & Trap

Compound	Result (ug/L)	Detection Limit	Analytical Notes	Method Blank	Detection Limit
cetone	ND	200	a	ND	10
enzene	ND	100	a	ND	5
romobenzene	ND	100	a	ND	5
romochloromethane	ND	100	a	ND	5
romodichloromethane	ND	100	a	ND	5
romoform	ND	100	a	ND	5
romomethane	ND	200	a	ND	10
-Butanone	ND	200	a	ND	10
-Butylbenzene	ND	100	a	ND	5
ec-Butylbenzene	ND	100	a	ND	5
ert-Butylbenzene	ND	100	a	ND	5
arbon disulfide	ND	100	a	ND	5
arbon tetrachloride	ND	100	a	ND	5
hlorobenzene	ND	100	a	ND	5
hloroethane	ND	200	a	ND	10
-Chloroethyl vinyl ether	ND	200	a	ND	10
hloroform	ND	100	a	ND	5
hloromethane	ND	200	a	ND	10
-Chlorotoluene	ND	100	a	ND	5
-Chlorotoluene	ND	100	a	ND	5
ibromochloromethane	ND	100	a	ND	5
,2-Dibromo-3-chloropropane	ND	100	a	ND	5
,2-Dibromoethane	ND	100	a	ND	5
ibromomethane	ND	100	a	ND	5
,2-Dichlorobenzene	ND	100	a	ND	5
,3-Dichlorobenzene	ND	100	a	ND	5
,4-Dichlorobenzene	ND	100	a	ND	5
ichlorodifluoromethane	ND	200	a	ND	10
,1-Dichloroethane	ND	100	a	ND	5
,2-Dichloroethane	ND	100	a	ND	5
,1-Dichloroethene	100	100	a,b	ND	5
is-1,2-Dichloroethene	100	100	a,b	ND	5
ans-1,2-Dichloroethene	ND	100	a	ND	5
,2-Dichloropropane	ND	100	a	ND	5
,3-Dichloropropane	ND	100	a	ND	5
,2-Dichloropropane	ND	100	a	ND	5
,1-Dichloropropene	ND	100	a	ND	5
is-1,3-Dichloropropene	ND	100	a	ND	5
ans-1,3-Dichloropropene	ND	100	a	ND	5
thylbenzene	ND	100	a	ND	5
reon 113	ND	100	a	ND	5
exachlorobutadiene	ND	100	a	ND	5
-Hexanone	ND	200	a	ND	10
sopropylbenzene	ND	100	a	ND	5
-Isopropyltoluene	ND	100	a	ND	5
ethylene chloride	ND	100	a	ND	5
-Methyl-2-pentanone	ND	200	a	ND	10
aphthalene	ND	100	a	ND	5
-Propylbenzene	ND	100	a	ND	5

Analytical Notes

a - Raised detection limit due to sample interference.

b - Result from a 1:20 dilution.

	Sample	Method Blank
Date Sampled:	3/04/96	N/A
Date Analyzed:	3/06/96	3/06/96

(continued on next page)

VOLATILE ORGANICS

Client I.D.: DW-0304969
Laboratory I.D.: 213865-008
Client: KENNEDY/JENKS

Matrix: Liquid
Method: EPA 8260
Extraction: EPA 5030 Purge & Trap

(continued from previous page)

Compound	Result (ug/L)	Detection Limit	Analytical Notes	Method Blank	Detection Limit
Styrene	ND	100	a	ND	5
1,1,1,2-Tetrachloroethane	ND	100	a	ND	5
1,1,2,2-Tetrachloroethane	ND	100	a	ND	5
Tetrachloroethene	ND	100	a	ND	5
Toluene	250	100	a,b	ND	5
1,2,3-Trichlorobenzene	ND	100	a	ND	5
1,2,4-Trichlorobenzene	ND	100	a	ND	5
1,1,1-Trichloroethane	ND	100	a	ND	5
1,1,2-Trichloroethane	ND	100	a	ND	5
Trichloroethene	16000	500	a,c	ND	5
Trichlorofluoromethane	ND	100	a	ND	5
1,2,3-Trichloropropane	ND	100	a	ND	5
1,2,4-Trimethylbenzene	ND	100	a	ND	5
1,3,5-Trimethylbenzene	ND	100	a	ND	5
Vinyl acetate	ND	200	a	ND	10
Vinyl chloride	ND	200	a	ND	10
m,p-Xylenes	ND	100	a	ND	5
o-Xylene	ND	100	a	ND	5

Analytical Notes

a - Raised detection limit due to sample interference.

b - Result from a 1:20 dilution.

c - Result from a 1:100 dilution.

Quality Control Data Summary

Surrogate Recovery Data

Compound	Spike Amount (ug/L)	Percent Recovery	QC Limits
Toluene-d8	50	100	88-110
Bromofluorobenzene	50	89	86-115
Dibromofluoromethane	50	108	76-114

Laboratory Control Sample, Matrix Spike/Matrix Spike Duplicate Data

Batch I.D.: 10872DC6 Sample I.D.: 213865-003

Compounds	Spike Amt. (ug/L)	LCS %Rec.	QC Limits	Spike %Rec.	Spk Dup %Rec.	QC Limits	RPD	QC Limits
1,1-Dichloroethene	25	89	80-120	88	90	61-145	2	14
Benzene	25	105	80-120	104	105	76-127	1	11
Trichloroethene	25	112	80-120	104	100	71-120	4	14
Toluene	25	110	80-120	108	105	76-125	3	13
Chlorobenzene	25	111	80-120	110	111	75-130	1	13

VOLATILE ORGANICS

:lient I.D.: TRAVEL BLANK
aboratory I.D.: 213865-009
:lient: KENNEDY/JENKS

Matrix: Liquid
Method: EPA 8260
Extraction: EPA 5030 Purge & Trap

Compound	Result (ug/L)	Detection Limit	Analytical Notes	Method Blank	Detection Limit
cetone	ND	10		ND	10
enzene	ND	5		ND	5
romobenzene	ND	5		ND	5
romochloromethane	ND	5		ND	5
romodichloromethane	ND	5		ND	5
romoform	ND	5		ND	5
romomethane	ND	10		ND	10
-Butanone	ND	10		ND	10
-Butylbenzene	ND	5		ND	5
ec-Butylbenzene	ND	5		ND	5
ert-Butylbenzene	ND	5		ND	5
arbon disulfide	ND	5		ND	5
arbon tetrachloride	ND	5		ND	5
hlorobenzene	ND	5		ND	5
hloroethane	ND	10		ND	10
-Chloroethyl vinyl ether	ND	10		ND	10
hloroform	ND	5		ND	5
hloromethane	ND	10		ND	10
-Chlorotoluene	ND	5		ND	5
-Chlorotoluene	ND	5		ND	5
ibromochloromethane	ND	5		ND	5
,2-Dibromo-3-chloropropane	ND	5		ND	5
,2-Dibromoethane	ND	5		ND	5
ibromomethane	ND	5		ND	5
,2-Dichlorobenzene	ND	5		ND	5
,3-Dichlorobenzene	ND	5		ND	5
,4-Dichlorobenzene	ND	5		ND	5
ichlorodifluoromethane	ND	10		ND	10
,1-Dichloroethane	ND	5		ND	5
,2-Dichloroethane	ND	5		ND	5
,1-Dichloroethene	ND	5		ND	5
is-1,2-Dichloroethene	ND	5		ND	5
ans-1,2-Dichloroethene	ND	5		ND	5
,2-Dichloropropane	ND	5		ND	5
,3-Dichloropropane	ND	5		ND	5
,2-Dichloropropane	ND	5		ND	5
,1-Dichloropropene	ND	5		ND	5
is-1,3-Dichloropropene	ND	5		ND	5
ans-1,3-Dichloropropene	ND	5		ND	5
thylbenzene	ND	5		ND	5
reon 113	ND	5		ND	5
exachlorobutadiene	ND	5		ND	5
-Hexanone	ND	10		ND	10
sopropylbenzene	ND	5		ND	5
-Isopropyltoluene	ND	5		ND	5
ethylene chloride	ND	5		ND	5
-Methyl-2-pentanone	ND	10		ND	10
aphthalene	ND	5		ND	5
-Propylbenzene	ND	5		ND	5

Analytical Notes

	Sample	Method Blank
Date Sampled:	3/04/96	N/A
Date Analyzed:	3/06/96	3/06/96

(continued on next page)

VOLATILE ORGANICS

Client I.D.: TRAVEL BLANK
Laboratory I.D.: 213865-009
Client: KENNEDY/JENKS

Matrix: Liquid
Method: EPA 8260
Extraction: EPA 5030 Purge & Trap

(continued from previous page)

Compound	Result (ug/L)	Detection Limit	Analytical Notes	Method Blank	Detection Limit
Styrene	ND	5		ND	5
1,1,1,2-Tetrachloroethane	ND	5		ND	5
1,1,2,2-Tetrachloroethane	ND	5		ND	5
Tetrachloroethene	ND	5		ND	5
Toluene	ND	5		ND	5
1,2,3-Trichlorobenzene	ND	5		ND	5
1,2,4-Trichlorobenzene	ND	5		ND	5
1,1,1-Trichloroethane	ND	5		ND	5
1,1,2-Trichloroethane	ND	5		ND	5
Trichloroethene	ND	5		ND	5
Trichlorofluoromethane	ND	5		ND	5
1,2,3-Trichloropropane	ND	5		ND	5
1,2,4-Trimethylbenzene	ND	5		ND	5
1,3,5-Trimethylbenzene	ND	5		ND	5
Vinyl acetate	ND	10		ND	10
Vinyl chloride	ND	10		ND	10
m,p-Xylenes	ND	5		ND	5
o-Xylene	ND	5		ND	5

Analytical Notes

Quality Control Data Summary

Surrogate Recovery Data

Compound	Spike Amount (ug/L)	Percent Recovery	QC Limits
Toluene-d8	50	99	88-110
Bromofluorobenzene	50	90	86-115
Dibromofluoromethane	50	103	76-114

Laboratory Control Sample, Matrix Spike/Matrix Spike Duplicate Data
Batch I.D.: 10872DC6 Sample I.D.: 213865-003

Compounds	Spike Amt. (ug/L)	LCS %Rec.	QC Limits	Spike %Rec.	Spk Dup %Rec.	QC Limits	RPD	QC Limits
1,1-Dichloroethene	25	89	80-120	88	90	61-145	2	14
Benzene	25	105	80-120	104	105	76-127	1	11
Trichloroethene	25	112	80-120	104	100	71-120	4	14
Toluene	25	110	80-120	108	105	76-125	3	13
Chlorobenzene	25	111	80-120	110	111	75-130	1	13

APPENDIX C

GROUNDWATER PURGE AND SAMPLE FORMS

WATER LEVEL DATA SHEET

Well No.	Date Mo/Day/Yr	Time	Well Elevation	Depth To Water	Water Elevation	Initials	Comments
WCC-5S	2/29/96	933		64.24		SCS	
WCC-1S		936		63.50		SCS	
WCC-1D		942		66.60		SCS	
WCC-10S		955		66.35		SCS	
WCC-2S		1003		66.35		SCS	
WCC-11S		1014		65.16		SCS	
WCC-12S		1021		63.32		SCS	
WCC-7S		1025		64.75		SCS	
WCC-8S		1040		66.32		SCS	
WCC-4S		1044		66.71		SCS	
WCC-1S		1047		66.50		SCS	
WCC-3D		1053		67.13		SCS	
WCC-3S		1056		67.12		SCS	
WCC-6S		1102		67.12		SCS	
DAC-P1		1112		67.84		SCS	

Job No. 944016.01 Facility DAC

Groundwater Purge and Sample Form Date: 3/4/96 **Kennedy/Jenks Consultants**

PROJECT NAME: OAC

WELL NUMBER: WCC-15

PROJECT NUMBER: 944016.01

PERSONNEL: Shane Scrimshire

STATIC WATER LEVEL (FT): 66.50

MEASURING POINT DESCRIPTION: Top of Casing

WATER LEVEL MEASUREMENT METHOD: Elec. Probe

PURGE METHOD: Redi-Flow 2

TIME START PURGE: 1113

PURGE DEPTH (FT) 82'

TIME END PURGE: 1125

TIME SAMPLED: 1130

COMMENTS: Slowed Flow rate to approx. 500 ml/min for Sample.

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)
	83.40		66.50		16.90		0.16	0.64	1.44		2.70

TIME	1115	1121	1125				
VOLUME PURGED (GAL)	2gal.	6gal.	8gal.				
PURGE RATE (GPM)	.5gpm	.5gpm	.5gpm				
TEMPERATURE (°C)	67.9	70.2	71.0				
pH	7.35	7.24	7.27				
SPECIFIC CONDUCTIVITY (micromhos/cm) (uncorrected)	1411.	1609.	1658				
DISSOLVED OXYGEN (mg/L)							
eH(MV)Pt-AgCl ref.							
TURBIDITY/COLOR	Brown, silty ~~clear~~	Semi-clear lightly turbid	Clear				
ODOR	NO	NO	NO				
DEPTH OF PURGE INTAKE (FT)	82'	82'	82'				
DEPTH TO WATER DURING PURGE (FT)	69.35	69.10	69.10				
NUMBER OF CASING VOLUMES REMOVED							
DEWATERED?							

F-43.1 (5-89)

Groundwater Purge and Sample Form Date: 3/1/96 **Kennedy/Jenks Consultants**

PROJECT NAME: DAC

WELL NUMBER: WCC-2S

PROJECT NUMBER: 944016.01

PERSONNEL: Shane Scrimshire

STATIC WATER LEVEL (FT): 66.35

MEASURING POINT DESCRIPTION: Top of Casing

WATER LEVEL MEASUREMENT METHOD: Elec. Probe

PURGE METHOD: Redi-Flow 2

TIME START PURGE: 936

PURGE DEPTH (FT) 77'

TIME END PURGE: 952

TIME SAMPLED: 955

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= 43gal. CASING VOLUME (GAL)
	88.90		66.35		22.55		0.16	0.64	1.44		14.43

TIME	938	941	946	948	952		
VOLUME PURGED (GAL)	5gal	15gal.	25gal.	35gal.	45gal.		
PURGE RATE (GPM)	3gpm	3gpm	3gpm	3gpm	3gpm		
TEMPERATURE (°C)	70.4	71.3	71.2	71.5	70.9		
pH	8.19	7.78	7.71	7.65	7.66.		
SPECIFIC CONDUCTIVITY (micromhos/cm) (uncorrected)	677.	646.	609.	574.	563.		
DISSOLVED OXYGEN (mg/L)							
eH(MV)Pt-AgCl ref.							
TURBIDITY/COLOR	v. lightly turbid	Clear	Clear	Clear	Clear		
ODOR	NO	NO	NO	NO	NO		
DEPTH OF PURGE INTAKE (FT)	77'	77'	77'	77'	77'		
DEPTH TO WATER DURING PURGE (FT)	67.50	67.60	67.65	67.70	67.70		
NUMBER OF CASING VOLUMES REMOVED							
DEWATERED?							

F-43.1 (5-89)

Groundwater Purge and Sample Form Date: 3/4/96 **Kennedy/Jenks Consultants**

PROJECT NAME: DAC

WELL NUMBER: WCC-3S

PROJECT NUMBER: 944016.01

PERSONNEL: Shane Scrimshire

STATIC WATER LEVEL (FT): 67.12

MEASURING POINT DESCRIPTION: Top of casing

WATER LEVEL MEASUREMENT METHOD: Elec. Probe

PURGE METHOD: Redi-Flow 2

TIME START PURGE: 1424

PURGE DEPTH (FT) 77'

TIME END PURGE: 1438

TIME SAMPLED: 1441

COMMENTS: Heavy sheen on purge water.

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=41 CASING VOLUME (GAL)
	88.23		67.12		21.11		0.16	0.64	1.44		13.51

TIME	1426	1430	1436	1438			
VOLUME PURGED (GAL)	10gal.	20gal.	35 ~~30~~gal.	43 ~~40~~gal.			
PURGE RATE (GPM)	2.5gpm	2.5gpm	2.5gpm	2.5gpm			
TEMPERATURE (°C)	69.5	71.4	71.4	71.7			
pH	5.99	6.25	6.34	6.39			
SPECIFIC CONDUCTIVITY (micromhos/cm) (uncorrected)	1,473.	1307.	1,183.	1163.			
DISSOLVED OXYGEN (mg/L)							
eH(MV)Pt-AgCl ref.							
TURBIDITY/COLOR	Clear	Clear	Clear	Clear			
ODOR	Strong HC odor	V. Strong HC odor	→	→			
DEPTH OF PURGE INTAKE (FT)	77'	77'	77'	77'			
DEPTH TO WATER DURING PURGE (FT)	67.70	67.78	67.78	67.78			
NUMBER OF CASING VOLUMES REMOVED							
DEWATERED?							

F-43.1 (5-89)

Groundwater Purge and Sample Form Date: 3/4/96 **Kennedy/Jenks Consultants**

PROJECT NAME: DAC

WELL NUMBER: WCC-4S

PROJECT NUMBER: 944016.01

PERSONNEL: Shane Scrimshire

STATIC WATER LEVEL (FT): 66.71

MEASURING POINT DESCRIPTION: Top of Casing

WATER LEVEL MEASUREMENT METHOD: Elec. Probe

PURGE METHOD: Redi-Flow 2

TIME START PURGE: 1008

PURGE DEPTH (FT) 77'

TIME END PURGE: 1028

TIME SAMPLED: 1032

COMMENTS: Slowed flow rate to approx. 500 ml/min for sample.

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 = 44gal. CASING VOLUME (GAL)
	89.70		66.71		22.99		0.16	0.64	1.44		14.71

TIME	1012	1017	1022	1026	1028		
VOLUME PURGED (GAL)	5gal.	15gal.	30gal.	40gal.	45gal.		
PURGE RATE (GPM)	2gpm	2gpm	2gpm	2gpm	2gpm		
TEMPERATURE (°C)	68.7	71.1	71.3	71.3	71.8		
pH	7.06	7.41	7.42	7.42	7.41		
SPECIFIC CONDUCTIVITY (micromhos/cm) (uncorrected)	1364.	1404.	1318.	1266.	1288.		
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)	77' ~~66.30~~	77'	77'	77'	77'		
DEPTH TO WATER DURING PURGE (FT)	66.30	66.27	66.32	66.34	66.35		
NUMBER OF CASING VOLUMES REMOVED							
DEWATERED?							

F-431 (5-89)

Groundwater Purge and Sample Form Date: 2/29/96 **Kennedy/Jenks Consultants**

PROJECT NAME: DAC

WELL NUMBER: WCC-55

PROJECT NUMBER: 944016.01

PERSONNEL: Shane Scrimshire

STATIC WATER LEVEL (FT): 64.24

MEASURING POINT DESCRIPTION: Top of Casing

WATER LEVEL MEASUREMENT METHOD: Elec. Probe

PURGE METHOD: Redi-Flow 2

TIME START PURGE: 1337

PURGE DEPTH (FT) 77'

TIME END PURGE: 1410

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	=	x3=49 CASING VOLUME (GAL)
	89.65		64.24		25.41		0.16	0.64	1.44		16.2 gal.

TIME	1340	1347	1357	1401	1405	1408	1410
VOLUME PURGED (GAL)	5gal.	15gal.	25gal.	35gal.	45gal.	50gal.	55gal
PURGE RATE (GPM)	1.5gpm	1.5gpm	1.5gpm	1.5gpm	2gpm	2gpm	2gpm
TEMPERATURE (°C)	74.6	75.0	72.9	72.6	71.9	71.5	72.1
pH	7.09	7.25	7.26	7.26	7.24	7.25	7.25
SPECIFIC CONDUCTIVITY (micromhos/cm) (uncorrected)	1403.	1392.	1273.	1261.	1258.	1241.	1252.
DISSOLVED OXYGEN (mg/L)							
eH(MV)Pt-AgCl ref.							
TURBIDITY/COLOR	Clear	Clear	Clear	Clear	Clear	Clear	Clear
ODOR	NO	NO	NO	NO	NO	NO	NO
DEPTH OF PURGE INTAKE (FT)	77'	77'	77'	77'	77'	77'	77'
DEPTH TO WATER DURING PURGE (FT)	64.46	64.62	64.75	64.75	64.73	64.74	64.74
NUMBER OF CASING VOLUMES REMOVED							
DEWATERED?							

F-43.1 (5-89)

Groundwater Purge and Sample Form Date: 3/4/96 **Kennedy/Jenks Consultants**

PROJECT NAME: DAC

WELL NUMBER: WCC-6S

PROJECT NUMBER: 944016.01

PERSONNEL: Shane Scrimshire

STATIC WATER LEVEL (FT): 67.12

MEASURING POINT DESCRIPTION: Top of Casing

WATER LEVEL MEASUREMENT METHOD: Elec. Probe

PURGE METHOD: Redi-Flow 2

TIME START PURGE: 1523

PURGE DEPTH (FT) 77'

TIME END PURGE: 1541

TIME SAMPLED: 1545

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=44 CASING VOLUME (GAL)
	89.19		67.12		23.07		0.16	0.64	1.44		14.76

TIME	1526	1529	1536	1539	1541		
VOLUME PURGED (GAL)	5gal.	15gal.	30gal.	40gal.	47gal.		
PURGE RATE (GPM)	2.5gpm	2.5gpm	2.5gpm	2.5gpm	2.5gpm		
TEMPERATURE (°C)	69.2	70.8	70.9	70.9	71.6		
pH	6.02	6.48	6.51	6.53	6.53		
SPECIFIC CONDUCTIVITY (micromhos/cm) (uncorrected)	749.	781.	863.	898.	912		
DISSOLVED OXYGEN (mg/L)							
eH(MV)Pt-AgCl ref.							
TURBIDITY/COLOR	Clear	Clear	Clear	Clear	Clear		
ODOR	~~Strong~~ hyd. odor	~~Strong~~ hyd. odor	~~Strong~~ hyd. odor	~~Strong~~ hyd. odor	~~Strong~~ hyd. odor		
DEPTH OF PURGE INTAKE (FT)	77'	77'	77'	77'	77'		
DEPTH TO WATER DURING PURGE (FT)	67.85	68.32	68.50	68.48	68.48		
NUMBER OF CASING VOLUMES REMOVED							
DEWATERED?							

F-43.1 (5-89)

Groundwater Purge and Sample Form Date: 3/1/96 **Kennedy/Jenks Consultants**

PROJECT NAME: DAC

WELL NUMBER: WCC-7S

PROJECT NUMBER: 944016.01

PERSONNEL: Shane Scrimshire

STATIC WATER LEVEL (FT): 64.75

MEASURING POINT DESCRIPTION:

WATER LEVEL MEASUREMENT METHOD: Elec. Probe

PURGE METHOD: Redi-Flow 2

TIME START PURGE: 1405

PURGE DEPTH (FT) 77'

TIME END PURGE: 1425

TIME SAMPLED: 1430

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=46 gal. CASING VOLUME (GAL)
	89.00		64.75		24.25		0.16	0.64	1.44		15.52

TIME	1406	1410	1414	1417	1421	1423	1425
VOLUME PURGED (GAL)	5gal.	15gal.	25gal.	35gal.	45gal.	50gal	55gal.
PURGE RATE (GPM)	2.5gpm	2.5gpm	2.5gpm	2.5gpm	2.5gpm	2.5gpm	2.5gpm
TEMPERATURE (°C)	73.9	74.7	74.7	74.7	73.9	73.5	73.1
pH	7.64	7.43	7.44	7.44	7.41	7.42 ~~7.5~~	7.43
SPECIFIC CONDUCTIVITY (micromhos/cm) (uncorrected)	1851.	1760.	1482.	1407	1305.	1255.	1256.
DISSOLVED OXYGEN (mg/L)							
eH(MV)Pt-AgCl ref.							
TURBIDITY/COLOR	Clear	Clear	Clear	Clear	Clear	Clear	Clear
ODOR	NO	NO	NO	NO	NO	NO	NO
DEPTH OF PURGE INTAKE (FT)	77'	77'	77'	77'	77'	77'	77'
DEPTH TO WATER DURING PURGE (FT)	65.40	65.45	65.50	65.50	65.50	65.50	65.50
NUMBER OF CASING VOLUMES REMOVED							
DEWATERED?							

F-431 (5-89)

Groundwater Purge and Sample Form Date: 3/1/96 **Kennedy/Jenks Consultant**

PROJECT NAME: DAC

WELL NUMBER: WCC-8S

PROJECT NUMBER: 944016.01

PERSONNEL: Shane Scrimshire

STATIC WATER LEVEL (FT): 66.32

MEASURING POINT DESCRIPTION: Top of Casing

WATER LEVEL MEASUREMENT METHOD: Elec. Probe

PURGE METHOD: Redi-Flow 2

TIME START PURGE: 1522

PURGE DEPTH (FT) 77'

TIME END PURGE: 1539

TIME SAMPLED: 1604

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 = 44 gal, CASING VOLUME (GAL)
	89.25		66.32		22.93		0.16	0.64	1.44		14.67

TIME	1527	1532	1535	1538	1539		
VOLUME PURGED (GAL)	10	20	30	40	45		
PURGE RATE (GPM)	3gpm	3gpm	3gpm	3gpm	3gpm		
TEMPERATURE (°C)	73.9	72.9	73.2	72.8	72.7		
pH	7.36	7.08	7.06	7.06	7.09		
SPECIFIC CONDUCTIVITY (micromhos/cm) (uncorrected)	1800.	1791.	1799.	1779.	1776.		
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)	77'	77'	77'	77'	77'		
DEPTH TO WATER DURING PURGE (FT)	67.20	67.32	67.35	67.40	67.40		
NUMBER OF CASING VOLUMES REMOVED							
DEWATERED?							

F-43.1 (5-89)

Groundwater Purge and Sample Form Date: 2/29/96 **Kennedy/Jenks Consultants**

PROJECT NAME: OAC

WELL NUMBER: WCC-95

PROJECT NUMBER: 944016.01

PERSONNEL: Shane Scrimshire

STATIC WATER LEVEL (FT): 63.50

MEASURING POINT DESCRIPTION: Top of Casing

WATER LEVEL MEASUREMENT METHOD: Elec. Probe

PURGE METHOD: Redi-Flow 2

TIME START PURGE: 1520

PURGE DEPTH (FT) 77'

TIME END PURGE: 1540

TIME SAMPLED: 1544

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=49 CASING VOLUME (GAL)
	89.20		63.50		25.70		0.16	0.64	1.44		16.4

TIME	1522	1527	1532	1537	1540		
VOLUME PURGED (GAL)	5gal.	15gal.	30gal.	40gal.	50gal.		
PURGE RATE (GPM)	2.5gpm	2.5gpm	2.5gpm	2.5gpm	2.5gpm		
TEMPERATURE (°C)	67.6	69.2	68.2	68.6	67.8		
pH	7.50	7.40	7.36	7.40	7.45		
SPECIFIC CONDUCTIVITY (micromhos/cm) (uncorrected)	1278.	1024.	1013.	1024.	1016.		
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)	77'	77'	77'	77'	77'		
DEPTH TO WATER DURING PURGE (FT)	64.40	64.45	64.44	64.44	64.44		
NUMBER OF CASING VOLUMES REMOVED							
DEWATERED?							

Groundwater Purge and Sample Form Date: 3/1/96 **Kennedy/Jenks Consultants**

PROJECT NAME: DAC

WELL NUMBER: WCC-10S

PROJECT NUMBER: 944016.01

PERSONNEL: Shane Scrimshire

STATIC WATER LEVEL (FT): 66.35

MEASURING POINT DESCRIPTION: Top of Casing

WATER LEVEL MEASUREMENT METHOD: Elec. Probe

PURGE METHOD: Redi-Flow 2

TIME START PURGE: 827

PURGE DEPTH (FT) 77'

TIME END PURGE: 848

TIME SAMPLED: 852

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= 44gal. CASING VOLUME (GAL)
	89.50		66.35		23.15		0.16	0.64	1.44		14.81

TIME	829	834	840	843	848		
VOLUME PURGED (GAL)	5gal.	15gal.	25gal.	35gal.	45gal.		
PURGE RATE (GPM)	2gpm	2gpm	2gpm	2gpm	2gpm		
TEMPERATURE (°C)	66.2	70.6	72.3	72.3	71.8		
pH	7.20	7.36	7.36	7.33	7.33		
SPECIFIC CONDUCTIVITY (micromhos/cm) (uncorrected)	855.	890.	902.	908.	914.		
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)	77'	77'	77'	77'	77'		
DEPTH TO WATER DURING PURGE (FT)	67.40	67.45	67.55	67.60	67.60		
NUMBER OF CASING VOLUMES REMOVED							
DEWATERED?							

Groundwater Purge and Sample Form Date: 3/1/96 **Kennedy/Jenks Consultants**

PROJECT NAME: DAC

WELL NUMBER: WCC-11S

PROJECT NUMBER: 944016.01

PERSONNEL: Shane Scrimshire

STATIC WATER LEVEL (FT): 65.16

MEASURING POINT DESCRIPTION: Top of Casing

WATER LEVEL MEASUREMENT METHOD: Elec. Probe

PURGE METHOD: Redi-Flow 2

TIME START PURGE: 1035

PURGE DEPTH (FT) 77'

TIME END PURGE: 1049

TIME SAMPLED: 1053

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=46 gal. CASING VOLUME (GAL)
	89.30		65.16		24.14		0.16	0.64	1.44		15.44

TIME	1037	1040	1043	1046	1049		
VOLUME PURGED (GAL)	5gal.	15gal.	25gal.	35gal.	45gal.		
PURGE RATE (GPM)	3gpm	3gpm	3gpm	3gpm	3gpm		
TEMPERATURE (°C)	73.8	72.6	72.3	72.2	72.1		
pH	7.53	7.40	7.40	7.39	7.40		
SPECIFIC CONDUCTIVITY (micromhos/cm) (uncorrected)	1268.	1250.	1250.	1252.	1270.		
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)	77'	77'	77'	77'	77'		
DEPTH TO WATER DURING PURGE (FT)	69.45	69.75	69.95	70.05	70.15		
NUMBER OF CASING VOLUMES REMOVED							
DEWATERED?							

F-431 (5-89)

Groundwater Purge and Sample Form Date: 3/1/96 **Kennedy/Jenks Consultants**

PROJECT NAME: DAC

WELL NUMBER: WCC-125

PROJECT NUMBER: 944016.01

PERSONNEL: Shane Scrimshire

STATIC WATER LEVEL (FT): 63.32

MEASURING POINT DESCRIPTION: Top of Casing

WATER LEVEL MEASUREMENT METHOD: Elec. Probe

PURGE METHOD: Redi-Flow 2

TIME START PURGE: 1134

PURGE DEPTH (FT) 77'

TIME END PURGE: 1152

TIME SAMPLED: 1156

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= 50gal. CASING VOLUME (GAL)
	89.20		63.32		25.88		0.16	0.64	1.44		16.5

TIME	1136	1140	1144	1148	1152		
VOLUME PURGED (GAL)	5gal.	15gal.	25gal.	40gal.	50gal.		
PURGE RATE (GPM)	2.5gpm	2.5gpm	2.5gpm	2.5gpm	2.5gpm		
TEMPERATURE (°C)	78.8	78.0	77.4	76.9	76.3		
pH	7.75	7.51	7.52	7.51	7.45		
SPECIFIC CONDUCTIVITY (micromhos/cm) (uncorrected)	1453.	1344.	1255.	1239.	1251		
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)	77'	77'	77'	77'	77'		
DEPTH TO WATER DURING PURGE (FT)	65.05	65.05	65.15	65.20	65.21		
NUMBER OF CASING VOLUMES REMOVED							
DEWATERED?							

F-43.1 (5-89)

Groundwater Purge and Sample Form Date: 3/4/96 **Kennedy/Jenks Consultants**

PROJECT NAME: DAC

WELL NUMBER: DAC-P1

PROJECT NUMBER: 944016.01

PERSONNEL: Shane Scrimshire

STATIC WATER LEVEL (FT): 67.84

MEASURING POINT DESCRIPTION: Top of Casing

WATER LEVEL MEASUREMENT METHOD: Elec. Probe

PURGE METHOD: Redi-Flow 2

TIME START PURGE: 1634

PURGE DEPTH (FT) 88'

TIME END PURGE: 1707

TIME SAMPLED: 1712

COMMENTS: Battery in pH. cond, temp meter is getting low. Parameters not ~~stabilizing~~ stabilizing as quickly as they should because of low battery.

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=42 CASING VOLUME (GAL)
	89.90		67.84		22.06		0.16	0.64	1.44		14.1

TIME	1639	1644	1652	1659	1707		
VOLUME PURGED (GAL)	5gal.	15gal.	25gal.	35gal.	45gal.		
PURGE RATE (GPM)	1.5gpm	1.5gpm	1.5gpm	1.5gpm	1.5gpm		
TEMPERATURE (°C)	70.3	69.6	70.8	71.0	71.3		
pH	8.31	8.50	8.36	8.35	8.40		
SPECIFIC CONDUCTIVITY (micromhos/cm) (uncorrected)	865	791.	880.	938	940.		
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)	88'	88'	88'	88'	88'		
DEPTH TO WATER DURING PURGE (FT)	70.10	70.0	69.90	69.95	69.92		
NUMBER OF CASING VOLUMES REMOVED							
DEWATERED?							

F-431 (5-89)

Groundwater Purge and Sample Form Date: 2/29/96 **Kennedy/Jenks Consultants**

PROJECT NAME: DAC

WELL NUMBER: WCC-117

PROJECT NUMBER: 944016.01

PERSONNEL: Shane Scrimshire

STATIC WATER LEVEL (FT): 66.60

MEASURING POINT DESCRIPTION: Top of Casing

WATER LEVEL MEASUREMENT METHOD: Elec. Probe

PURGE METHOD: Redi-Flow 2

TIME START PURGE: 1655

PURGE DEPTH (FT) 90'

TIME END PURGE: 1735

TIME SAMPLED: 1740

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 = 132 CASING VOLUME (GAL)
	135.75		66.60		69.15		0.16	0.64	1.44		44.25

TIME	1657	1710	1721	1731	1735		
VOLUME PURGED (GAL)	10 gal.	40 gal.	80 gal.	120 gal.	135 gal.		
PURGE RATE (GPM)	3gpm	3gpm	4gpm	4gpm	4gpm		
TEMPERATURE (°C)	66.6	70.5	70.0	68.7	70.3		
pH	7.67	7.64	7.69	7.70	7.69		
SPECIFIC CONDUCTIVITY (micromhos/cm) (uncorrected)	661.	715.	676.	665.	673.		
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)	90'	90'	90'	90'	90'		
DEPTH TO WATER DURING PURGE (FT)	70.55	71.00	71.98	71.95	71.95		
NUMBER OF CASING VOLUMES REMOVED							
DEWATERED?							

Groundwater Purge and Sample Form Date: 3/4/96 **Kennedy/Jenks Consultants**

PROJECT NAME: DAC

WELL NUMBER: WCC-3D

PROJECT NUMBER: 944016.01

PERSONNEL: Shane Scrimshire

STATIC WATER LEVEL (FT): 67.13

MEASURING POINT DESCRIPTION: Top of Casing

WATER LEVEL MEASUREMENT METHOD: ~~Redi-Flow~~ Elec. Probe

PURGE METHOD: Redi-Flow 2

TIME START PURGE: 1230

PURGE DEPTH (FT) 135'

TIME END PURGE: 1330

TIME SAMPLED: 1335

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= 138 CASING VOLUME (GAL)
	138.81		67.13		71.68		0.16	0.64	1.44		45.87

TIME	1234	1245	1305	1320	1330		
VOLUME PURGED (GAL)	10gal.	40gal.	80gal.	120gal.	140gal		
PURGE RATE (GPM)							
TEMPERATURE (°C)	75.6	70.7	69.7	68.9	69.7		
pH	7.81	7.70	7.48	7.37	7.34		
SPECIFIC CONDUCTIVITY (micromhos/cm) (uncorrected)	731.	671.	615.	610.	615.		
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)	135'	135'	135'	135'	135'		
DEPTH TO WATER DURING PURGE (FT)	78.50	90.53	93.40	93.65	93.70		
NUMBER OF CASING VOLUMES REMOVED							
DEWATERED?							

F-43.1 (5-89)

APPENDIX D

CHAIN-OF-CUSTODY RECORDS

Curtis & Tompkins, Ltd. General Analytical Laboratories
2495 Da Vinci, Irvine, CA 92714 Phone (714)252-9700 Fax (714)252-9701

CHAIN-OF-CUSTODY RECORD

LAB# 213841

Field Notes:

Sample ID	Depth	Date	Time	Sample Type	Container Type	Total Number Of Containers	ANALYSES 601/8010	602/8020	BTEX	8015 (TVH)	8015 (TEH)	418.1	413.1	413.2	608/8080	PCB'S Only	624/8240	625/8270	TITLE 26 Metals	RCRA Metals	Wet Extraction	TCLP Extraction	ZHE Extraction	8260/8240						
WCC5S-14		2/21/96	1413	W	VOA	4																		X						
WCC9S-14		↓	1544	↓	↓	↓																		↓						
WCC1D-14		↓	1740	↓	↓	↓																		↓						
DW-022996		↓	—	↓	↓	↓																		↓						
EB-022996		↓	1615	↓	↓	↓																		↓						
Trip Blank		↓	—	↓	↓	2																		↓						

Relinquished By: (Signature)	Date/Time	Received By: (Signature)	Date/Time
[signature]	3/1/96 1506	[signature] AL: HAGHANI	3/1/96 18:06
Relinquished By: (Signature)	Date/Time	Received By: (Signature)	Date/Time
Relinquished By: (Signature)	Date/Time	Received By: (Signature)	Date/Time

LABORATORY NOTES:

DATE DATA NEEDED BY:

All samples will be disposed of 30 days after invoice unless specified on chain of custody - write "archive for _____ days" by any sample to be archived.

$5 / sample / month will be charged

SEND ANALYTICAL REPORT TO: Sarah Bartling
COMPANY: Kennedy / Jenks Consultants
ADDRESS: 2151 Mickelson Dr.
CITY: Irvine STATE: CA, ZIP CODE: 92715
PHONE NUMBER: 714-261-1577 FAX NUMBER:
PROJECT MANAGER: Sarah Bartling

CLIENT JOB I.D.: 944016.01
CLIENT P.O. NO.: C&T QUOTE NO.:
SAMPLING LOCATION: DAC
COLLECTOR: Shane Scrimshire

WHITE COPY - Original (Accompanying Samples) YELLOW COPY - Collector PINK COPY - Project Manager

BOE-C6-0017466

Curtis & Tompkins, Ltd. General Analytical Laboratories
2495 Da Vinci, Irvine, CA 92714 Phone (714)252-9700 Fax (714)252-9701

SHEET ____ OF ____

CHAIN-OF-CUSTODY RECORD

LAB# 213838

Field Notes:

Sample ID	Depth	Date	Time	Sample Type	Container Type	Total Number Of Containers	ANALYSES 601/8010	602/8020	BTEX	8015 (TVH)	8015 (TEH)	418.1	413.1	413.2	608/8080	PCB'S Only	624/8240	625/8270	TITLE 26 Metals	RCRA Metals	Wet Extraction	TCLP Extraction	ZHE Extraction	8260/8240						
WCC10S-14		3/1/96	852	W	VOA	4																		X						
WCC2S-14		↓	955	↓	↓	↓																		↓						
WCC11S-14			1053																											
WCC12S-14			1156																											
WCC7S-14			1430																											
EB-030196			1450																											
WCC8S-14			1604																											
DW-030196			—			↓																								
Travel Blank		↓	—	↓	↓	2																		↓						

Relinquished By: (Signature)	Date/Time	Received By: (Signature)	Date/Time
[signature]	3/1/96 KCG	[signature] Ali Hughani	1306 03/01/96
Relinquished By: (Signature)	Date/Time	Received By: (Signature)	Date/Time
Relinquished By: (Signature)	Date/Time	Received By: (Signature)	Date/Time

LABORATORY NOTES:

DATE DATA NEEDED BY:

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COMPANY: Kennedy / Jenks Consultants
ADDRESS: 2151 Mickelson Dr. Ste 100
CITY: Irvine STATE: CA. ZIP CODE: 92715
PHONE NUMBER: 714-261-1577 FAX NUMBER:
PROJECT MANAGER: Sarah Bartling

CLIENT JOB I.D.: 944016.01
CLIENT P.O. NO.: C&T QUOTE NO.:
SAMPLING LOCATION: DAC
COLLECTOR: Shane Scrimshire

BOE-C6-0017467

Curtis & Tompkins, Ltd. General Analytical Laboratories
2495 Da Vinci, Irvine, CA 92714 Phone (714)252-9700 Fax (714)252-9701

CHAIN-OF-CUSTODY RECORD

LAB# 213865

Sample ID	Depth	Date	Time	Sample Type	Container Type	Total Number Of Containers	601/8010	602/8020	BTEX	8015 (TVH)	8015 (TEH)	418.1	413.1	413.2	608/8080	PCB'S Only	624/8240	625/8270	TITLE 26 Metals	RCRA Metals	Wet Extraction	TCLP Extraction	ZHE Extraction	8260 / 8240
WCC4S-14		3/4/96	1032	W	VOA's	4																	X	
WCC1S-14			1130																					
WCC3D-14			1335																					
WCC3S-14			1441																					
WCC6S-14			1545																					
E13-030496			1605																					
DACA-14			1712																					
DW-030496			—																					
Travel Blank			—			2																		

Relinquished By: (Signature)	Date/Time	Received By: (Signature)	Date/Time
[signature]	3/5/96 1400	[signature]	3/6/96 11:20
Relinquished By: (Signature)	Date/Time	Received By: (Signature)	Date/Time
Relinquished By: (Signature)	Date/Time	Received By: (Signature)	Date/Time

LABORATORY NOTES:

DATE DATA NEEDED BY:

All samples will be disposed of 30 days after invoice unless specified on chain of custody - write "archive for _____ days" by any sample to be archived.

$5 / sample / month will be charged

SEND ANALYTICAL REPORT TO: Sarah Bartling
COMPANY: Kennedy / Jenk Consultants
ADDRESS: 2151 Michelson Dr. Ste 100
CITY: Irvine STATE: CA. ZIP CODE: 92715
PHONE NUMBER: 714-261-1577 FAX NUMBER:
PROJECT MANAGER: Sarah Bartling

CLIENT JOB I.D.: 944016.01
CLIENT P.O. NO.: — C&T QUOTE NO.:
SAMPLING LOCATION: DAC
COLLECTOR: Shane Scrimshire