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Kennedy/Jenks Consultants

GROUNDWATER MONITORING
DATA SUMMARY REPORT
THIRD QUARTER 1995

DOUGLAS AIRCRAFT COMPANY C-6 FACILITY
TORRANCE, CALIFORNIA

K/J 944016.01

OCTOBER 1995

GROUNDWATER MONITORING DATA SUMMARY REPORT
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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 during the period of 6 and 7 September 1995, Third Quarter 1995.

2.0 QUARTERLY MONITORING PROGRAM

Third Quarter 1995 groundwater sampling was performed in accordance with standard sampling procedures. Static water level depths were measured on 6 September 1995 prior to initiating purging of groundwater from any observation wells and again on 20 September 1995 to confirm the measured depths. 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 Third Quarter 1995.

> 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 Third 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 submersible pump was removed from the well and a representative groundwater sample was collected using a steam-cleaned stainless steel point-source bailer equipped with top and bottom ball-check valves. The bailer was lowered to the approximate mid-point of the saturated well screen interval and retrieved to ground surface. The contents of the bailer were drained into three labeled 40-ml capacity vials, preserved with HCl.

2.2 Field QA/QC Procedures

Duplicate groundwater samples were collected for the sampling rounds on 6 and 7 September 1995 for quality control purposes. The duplicates were collected in three HCl-preserved vials each and identified by inserting the collection date after "DW-" (DW-090695 and DW-090795). No further sample identification was provided to the laboratory. Samples DW-090695 and DW-090795 were taken from observation wells WCC-11S and WCC-6S, respectively.

Following decontamination of the bailer by steam-cleaning, 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, through the bailer and discharge spigot and collecting the rinsate in two 40-ml vial preserved with HCl. The blank was identified following a similar protocol to that used for duplicate water samples and is identified as "EB090795". The wells sampled before and after rinsate blank preparation were recorded. EB090795 was collected after sampling well DAC P-1, the last well sampled that day. A trip blank was also analyzed for the second day of sampling and shipping and is identified as TB-090795.

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 6 September 1995, and again on 20 September 1995 to confirm the measurements (Table 4 and Appendix C). The shallow zone groundwater elevations measured on 20 September 1995 range from 15.59 feet below mean sea level (MSL) to 16.82 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-12S.

Insufficient data (two wells) are available to define the groundwater gradient in the deeper zone. Groundwater elevation in the two wells (WCC-1D and WCC-3D) is approximately 16.60 and 16.47 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 13,000 micrograms per liter (µg/L) coming onto DAC's property. This test result shows a decrease relative to prior sampling events, but is within the historical range. Other chemicals detected in well DAC-P1 include 1,1-DCE, cis-1,2-DCE, chloroform and toluene. These chemicals were detected at concentrations less than 100 µg/L. 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 increased slightly, but remain in the range of 100 to 200 µg/L of TCE and tens of 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 in a generally 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 showed a significant decrease in 1,1-DCE and toluene over recent historical data.

- WCC-6S data showed significant decrease in 1,1-DCE, 1,1,1-TCA, MIBK, cis-1,2-DCE, and toluene over the previous sampling event.

- Decreases in 1,1-DCE and TCE were also observed in wells WCC-1S and WCC-8S.

- WCC-3D data showed significant increases in 1,1-DCA, 1,1,1-TCA, TCE and toluene compared to concentrations observed last quarter. However, last quarter's data was relatively low, and this quarter's data is more consistent with other historical data.

- Chemical concentration variances within all observation wells (other than WCC-3D discussed above) 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.

BOE-C6-0137583

TABLES

TABLE 1

OBSERVATION WELL CONSTRUCTION DETAILS
GROUNDWATER MONITORING DATA SUMMARY REPORT
THIRD QUARTER, 1995
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
THIRD QUARTER 1995
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
WCC-2S	11/02/87	5	-	5	14	-	-	-	-	-	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

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

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GROUNDWATER MONITORING DATA SUMMARY REPORT
THIRD QUARTER 1995
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-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	-
	07/13/89	18,000	<500	56,000	7,700	<3000	<500	660	<500	<500	32,000	-
	08/23/89	56,000	<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	21,000/22,000	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
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

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

TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL DATA - MAJOR CONSTITUENTS
GROUNDWATER MONITORING DATA SUMMARY REPORT
THIRD QUARTER 1995
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
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

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

TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL DATA - MAJOR CONSTITUENTS
GROUNDWATER MONITORING DATA SUMMARY REPORT
THIRD QUARTER 1995
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
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

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

TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL DATA - MAJOR CONSTITUENTS
GROUNDWATER MONITORING DATA SUMMARY REPORT
THIRD QUARTER 1995
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
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	<40
	9/6/95	27	<5	<5	160	<10	<5	<5	<5	<5	<5	<10

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

TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL DATA - MAJOR CONSTITUENTS
GROUNDWATER MONITORING DATA SUMMARY REPORT
THIRD QUARTER 1995
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
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

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

TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL DATA - MAJOR CONSTITUENTS
GROUNDWATER MONITORING DATA SUMMARY REPORT
THIRD QUARTER 1995
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
DAC-P1	10/09/89	<200	<200	<200	17,000	<1,000	<200	<200	<200	<200	<200	<1,000
	06/17/92	<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
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

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

TABLE 2
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THIRD QUARTER 1995
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

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)

TABLE 3
SUMMARY OF GROUNDWATER ANALYTICAL DATA - MINOR CONSTITUENTS
GROUNDWATER MONITORING DATA SUMMARY REPORT
THIRD QUARTER 1995
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

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

TABLE 3
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GROUNDWATER MONITORING DATA SUMMARY REPORT
THIRD QUARTER 1995
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
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

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
THIRD QUARTER 1995
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
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

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

TABLE 3
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GROUNDWATER MONITORING DATA SUMMARY REPORT
THIRD QUARTER 1995
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
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

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

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THIRD QUARTER 1995
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
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

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

TABLE 3
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GROUNDWATER MONITORING DATA SUMMARY REPORT
THIRD QUARTER 1995
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
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

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
THIRD QUARTER 1995
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
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

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
THIRD QUARTER 1995
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
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

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)

SUMMARY OF GROUNDWATER ELEVATION DATA
THIRD QUARTER 1995
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)										
		4/9/93	6/7/93	8/24/93	11/18/93	2/23/94	6/10/94	9/8/94	12/21/94	3/13/95	6/12/95	9/20/95
WCC-1S	50.7	-18.79	-18.75	-18.25	-18	-17.61	-17.23	-17.25	-17.12	-17.12	-16.53	-16.27
WCC-2S	50.59	-18.64	-18.63	-18.15	-17.87	-17.49	-17.07	-17.2	-17.17	-17.08	-16.37	-16.19
WCC-3S	51.19	-18.83	-18.82	-18.36	-18.01	-17.67	-17.19	-17.31	-17.28	-17.22	-16.58	-16.37
WCC-4S	49.69	-18.86	-18.78	-18.37	-18.16	-17.77	-17.32	-17.37	-17.31	-17.23	-16.61	-16.38
WCC-5S	48.22	-18.83	-18.78	-18.38	-18.13	-17.78	-17.33	-17.33	-17.25	-17.19	-16.56	-16.35
WCC-6S	50.95	-19.03	-18.97	-18.55	-18.32	-17.92	-17.48	NM*	-17.45	-17.36	16.75	-16.64[7]
WCC-7S	48.29	-19.3	-19.23	-18.83	-18.6	-18.22	-17.82	-17.8	-17.74	-17.54	-17.03	-16.82
WCC-8S	50.56	-18.69	-18.61	-18.19	-17.89	-17.49	-17.11	-17.14	-17.12	-17.29	-16.42	-16.16
WCC-9S	47.01	-19.09	-19.09	-18.69	-18.42	-18.09	-18.63	-19.08	-17.51	-17.41	-16.79	-16.64
WCC-10S	51.12	-18.42	-18.33	-17.83	-17.54	-17.07	-16.67	-17.03	-16.97	-16.56	-16.05	-15.89
WCC-11S	49.97	-18.13	-18.04	-17.6	-17.36	-16.96	-16.45	-16.58	-16.63	-16.48	-15.83	-15.59
WCC-12S	46.92	-19.26	-19.2	-18.78	-18.58	-18.13	-17.74	-17.79	-17.67	-17.63	-17.00	-16.79
DAC-P1	52.44	-17.46	-17.38	-17.03	-16.76	-16.74	-16.6	-16.48	-16.25	-16.41	-15.94	-15.66
WCC-1D	50.45	-19.1	-19	-18.53	-18.34	-17.83	-17.47	-17.66	-17.55	-17.36	-16.79	-16.60
WCC-3D	51.18	-18.87	-18.85	-18.4	-18.18	-18	-17.39	-17.47	-17.42	-17.27	-16.67	-16.47
MW-8[6]	49.09	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-9[6]	48.67	NA	-20.58	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-18[6]	50.29	NA	-20.88	NA	NA	NA	NA	NA	NA	NA	-18.91	NA
MW-19[6]	46.55	NA	-20.13	NA	NA	NA	NA	NA	NA	NA	-18.06	NA

Notes:
1. Reference point is north side, top of well casing
2. Reference point elevation measured by Hargis + Associates, Inc.
3. Data taken from Woodward-Clyde Consultants Phase II Report, May 1988.
4. Data taken from Woodward-Clyde Consultants Phase III Report, March 1990.
5. NA - Not Available - No access to offsite wells.
6. Installed by Hargis + Associates, Inc. for Montrose Chemical Corporation
7. Well WCC-6S could not be opened on 20 September 1995. The water level elevation shown was measured on 6 September 1995.

* Water Level Elevation not measured due to wellhead obstructions.

94401601.022

SUMMARY OF GROUNDWATER ELEVATION DATA
GROUNDWATER MONITORING DATA SUMMARY REPORT
THIRD QUARTER 1995
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)				
		11/13/87[3]	10/18/89[4]	6/15/92	9/21/92	1/5/93
WCC-1S	50.7	-21.63	-19.48	-19.2	-19.42	-19.34
WCC-2S	50.59	-19.72	-19.06	-19.15	-19.41	-19.51
WCC-3S	51.19	-21.56	-19.42	-19.24	-19.52	-19.73
WCC-4S	49.69	-21.77	-19.59	-19.22	-19.49	-19.34
WCC-5S	48.22	NA5	-19.7	-19.13	-19.42	-19.32
WCC-6S	50.95	NA	-19.7	-19.4	-19.64	-19.5
WCC-7S	48.29	NA	-20.07	-19.63	-19.93	-19.76
WCC-8S	50.56	NA	-19.35	-19.11	-19.34	-19.19
WCC-9S	47.01	NA	-20.07	-19.44	-19.66	-19.56
WCC-10S	51.12	NA	-18.42	-18.94	-19.33	-19.1
WCC-11S	49.97	NA	NA	-17.62	-18.81	-18.69
WCC-12S	46.92	NA	NA	-19.6	-19.9	-19.74
DAC-P1	52.44	NA	NA	-17.76	-17.88	-18.02
WCC-1D	50.45	NA	-19.51	-19.55	-19.92	-19.61
WCC-3D	51.18	NA	-19.38	-19.39	-19.71	-20.52
MW-8[6]	49.09	NA	NA	NA	NA	NA[5]
MW-9[6]	48.67	NA	NA	NA	NA	NA
MW-18[6]	50.29	NA	NA	NA	NA	NA
MW-19[6]	46.55	NA	NA	NA	NA	NA

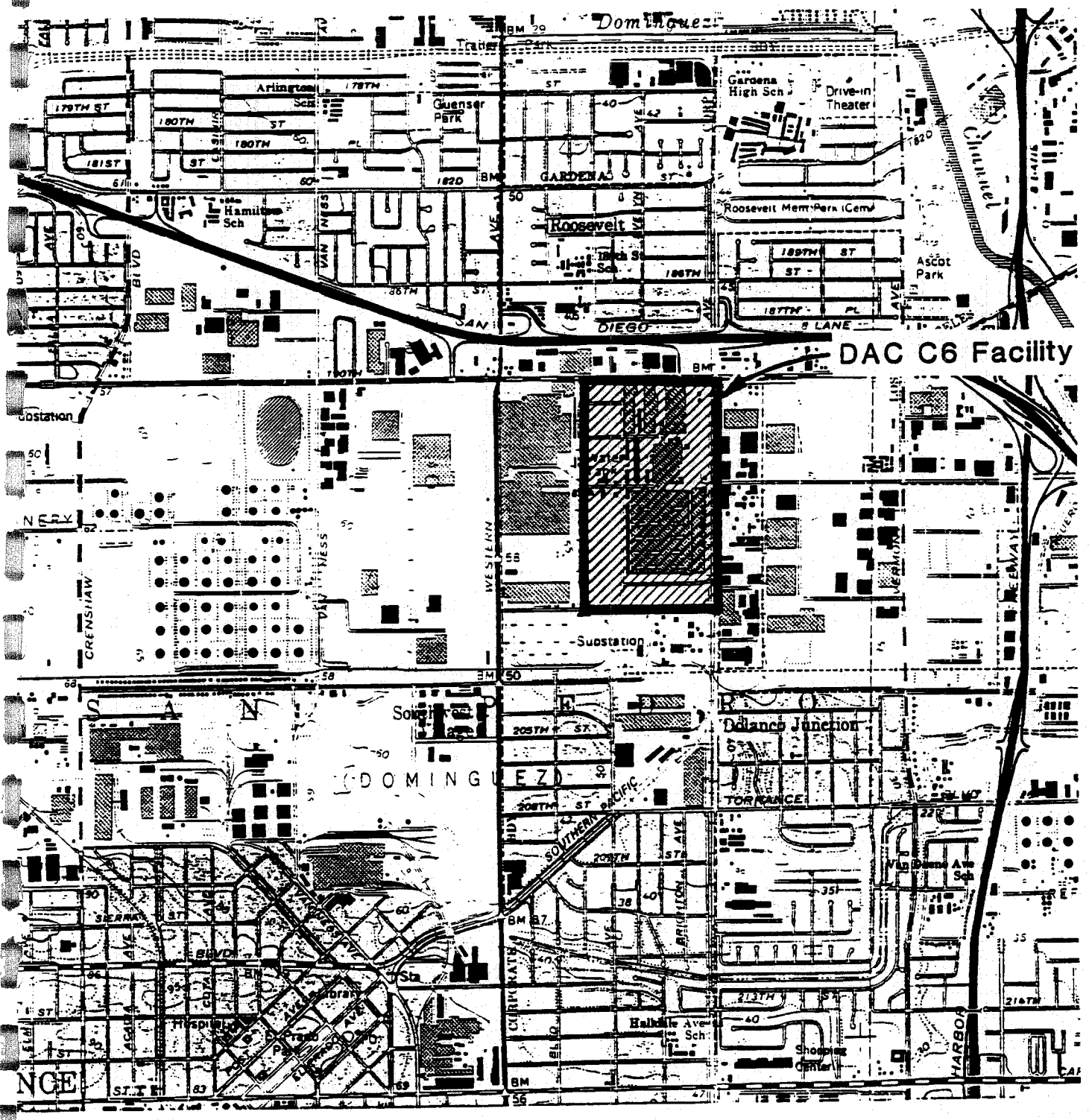
Notes:

1. Reference point is north side, top of well casing
2. Reference point elevation measured by Hargis + Associates, Inc.
3. Data taken from Woodward-Clyde Consultants Phase II Report, May 1988.
4. Data taken from Woodward-Clyde Consultants Phase III Report, March 1990.
5. NA - Not Available - No access to offsite wells.
6. Installed by Hargis + Associates, Inc. for Montrose Chemical Corporation
7. Well WCC-6S could not be opened on 20 September 1995. The water level elevation shown was measured on 6 September 1995.

* Water Level Elevation not measured due to wellhead obstructions.

94401601 022

FIGURES



N

0 1,000 2,000 FEET

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

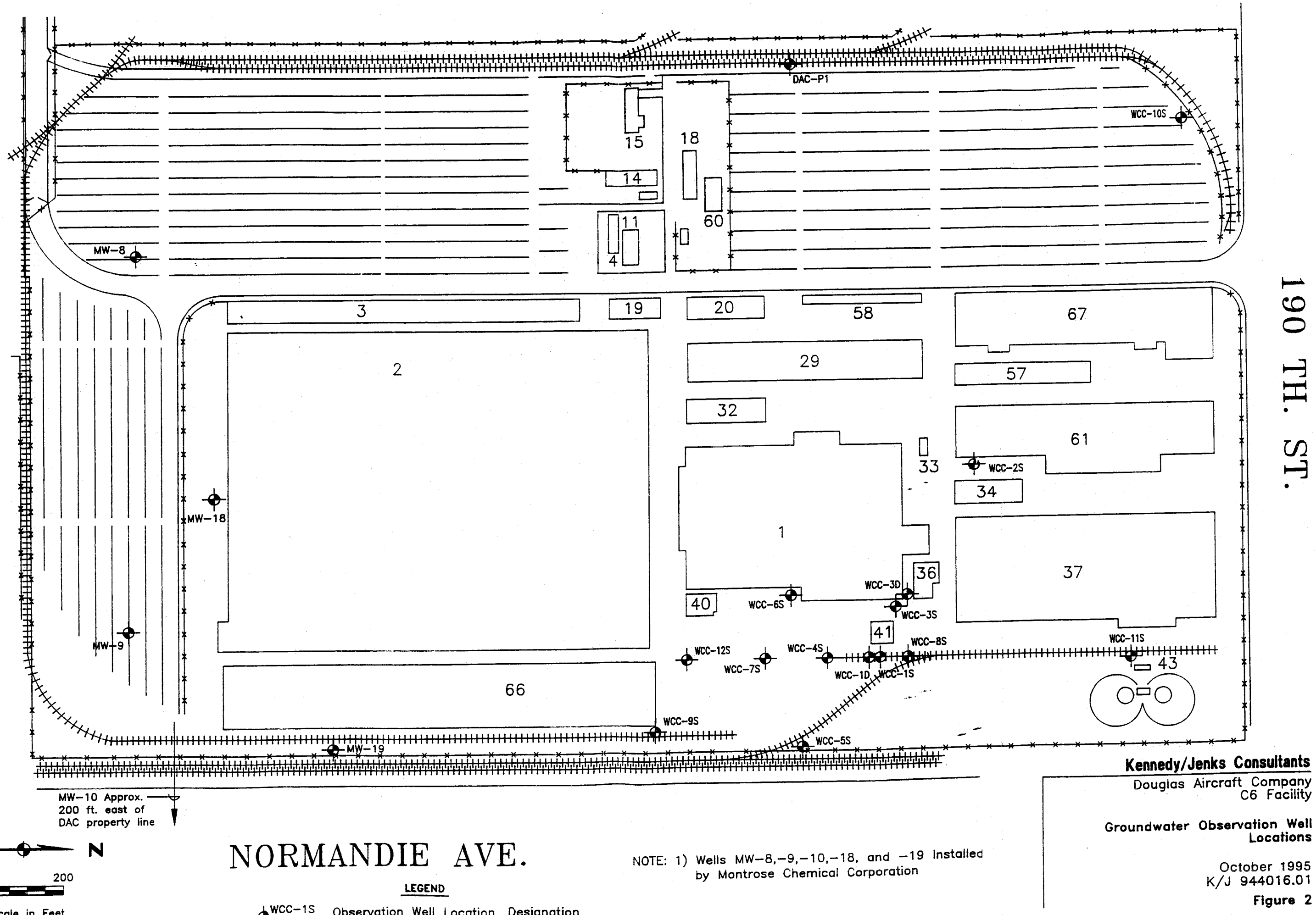
Kennedy/Jenks Consultants

Douglas Aircraft Company
C6 Facility

Site Vicinity Map

October 1995
K/J 944016.01

Figure 1



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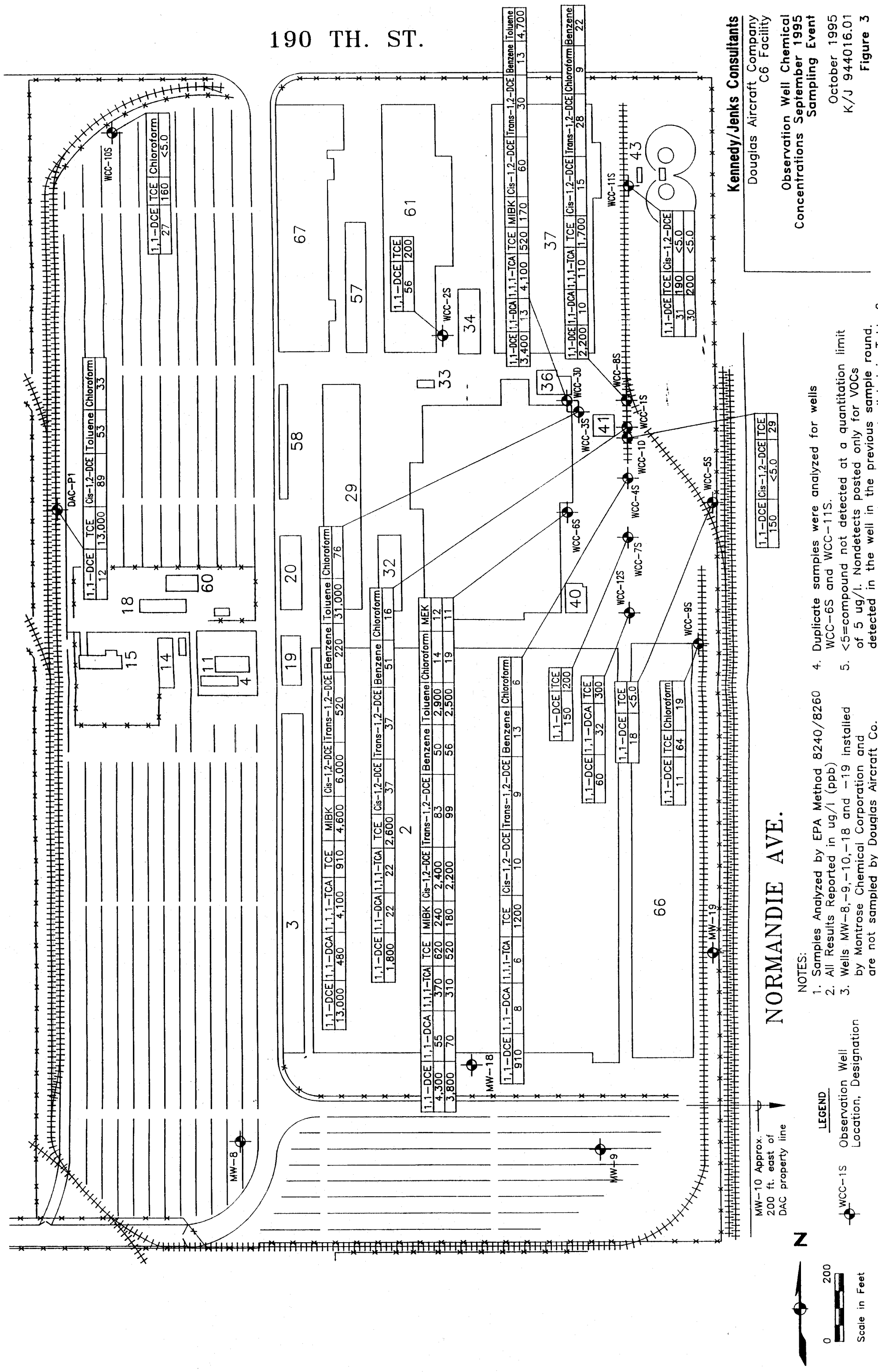
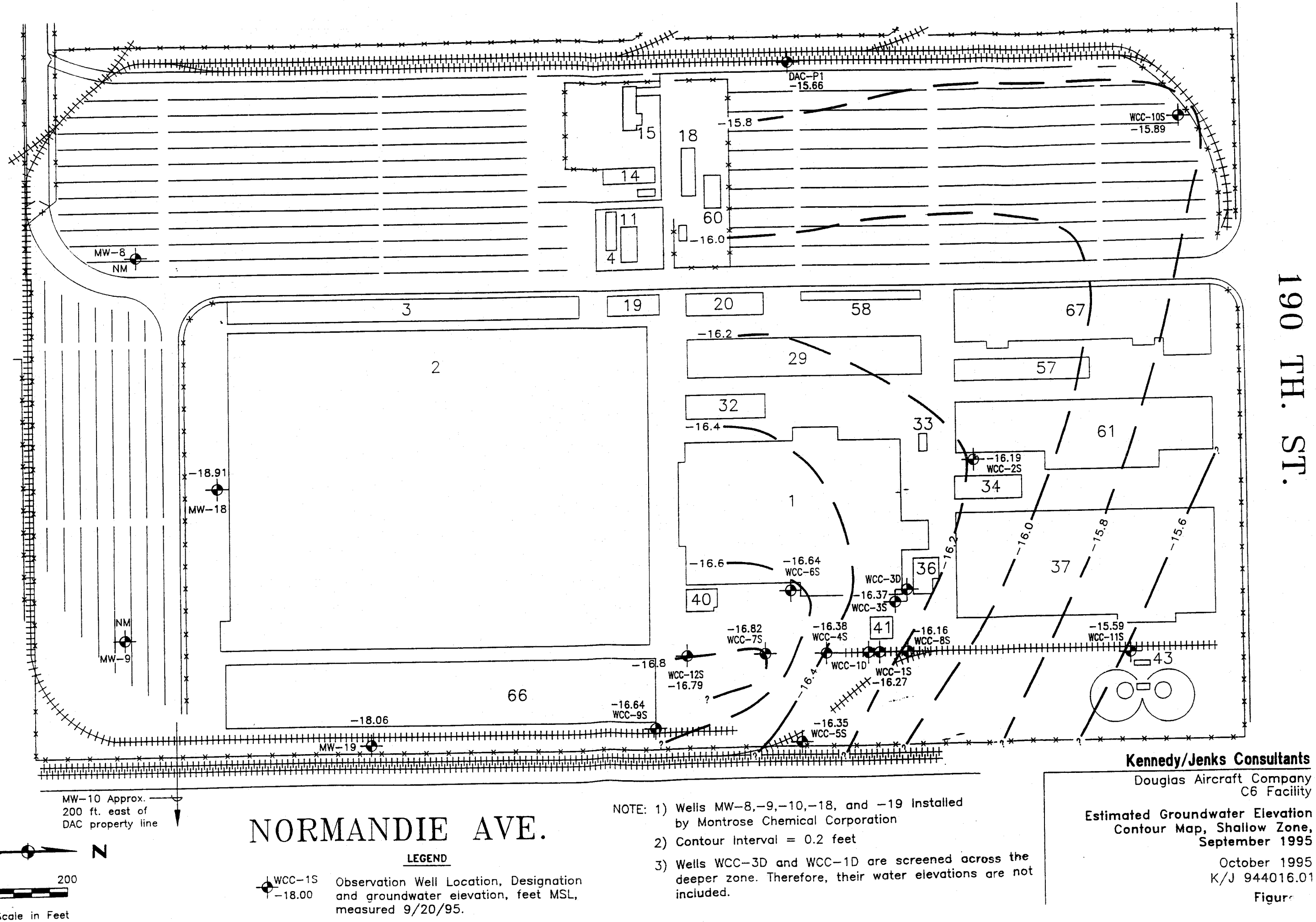

190 TH. ST.
NORMANDIE AVE.
Kennedy/Jenks Consultants
Douglas Aircraft Company
C6 Facility
Observation Well Chemical Concentrations September 1995 Sampling Event
October 1995
K/J 944016.01
Figure 3
WCC-10S
1,1-DCE 27 | TCE 160 | Chloroform <5.0
DAC-P1
1,1-DCE 12 | TCE 13,000 | Cis-1,2-DCE 89 | Toluene 53 | Chloroform 33
WCC-2S
1,1-DCE 56 | TCE 200
1,1-DCE 3,400 | 1,1-DCA 13 | 1,1,1-TCA 4,100 | TCE 520 | MIBK 170 | Cis-1,2-DCE 60 | Trans-1,2-DCE 30 | Benzene 1.3 | Toluene 4,700
1,1-DCE 2,200 | 1,1-DCA 10 | 1,1,1-TCA 110 | TCE 1,700 | Cis-1,2-DCE 15 | Trans-1,2-DCE 28 | Chloroform 9 | Benzene 22
WCC-11S
1,1-DCE 31 | TCE 190 | Cis-1,2-DCE <5.0
1,1-DCE 30 | TCE 200 | Cis-1,2-DCE <5.0
WCC-8S
WCC-3D
WCC-3S
WCC-1S
WCC-1D
WCC-4S
WCC-5S
WCC-6S
WCC-7S
WCC-12S
WCC-9S
1,1-DCE 150 | TCE 200
1,1-DCE 60 | 1,1-DCA 32 | TCE 300
1,1-DCE 18 | TCE <5.0
1,1-DCE 11 | TCE 64 | Chloroform 19
1,1-DCE 150 | Cis-1,2-DCE <5.0 | TCE 29
1,1-DCE 13,000 | 1,1-DCA 480 | 1,1,1-TCA 4,100 | TCE 910 | MIBK 4,600 | Cis-1,2-DCE 6,000 | Trans-1,2-DCE 520 | Benzene 220 | Toluene 31,000 | Chloroform 76
1,1-DCE 1,800 | 1,1-DCA 22 | 1,1,1-TCA 22 | TCE 2,600 | Cis-1,2-DCE 37 | Trans-1,2-DCE 37 | Benzene 51 | Chloroform 16
1,1-DCE 4,300 | 1,1-DCA 55 | 1,1,1-TCA 370 | TCE 620 | MIBK 240 | Cis-1,2-DCE 2,400 | Trans-1,2-DCE 83 | Benzene 50 | Toluene 2,900 | Chloroform 14 | MEK 12
1,1-DCE 3,800 | 1,1-DCA 70 | 1,1,1-TCA 310 | TCE 520 | MIBK 180 | Cis-1,2-DCE 2,200 | Trans-1,2-DCE 99 | Benzene 56 | Toluene 2,500 | Chloroform 19 | MEK 11
1,1-DCE 910 | 1,1-DCA 8 | 1,1,1-TCA 6 | TCE 1200 | Cis-1,2-DCE 10 | Trans-1,2-DCE 9 | Benzene 13 | Chloroform 6
MW-8
MW-9
MW-18
MW-19
MW-10 Approx. 200 ft. east of DAC property line
LEGEND
WCC-1S Observation Well Location, Designation
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-6S and WCC-11S.
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.
N
0
200
Scale in Feet



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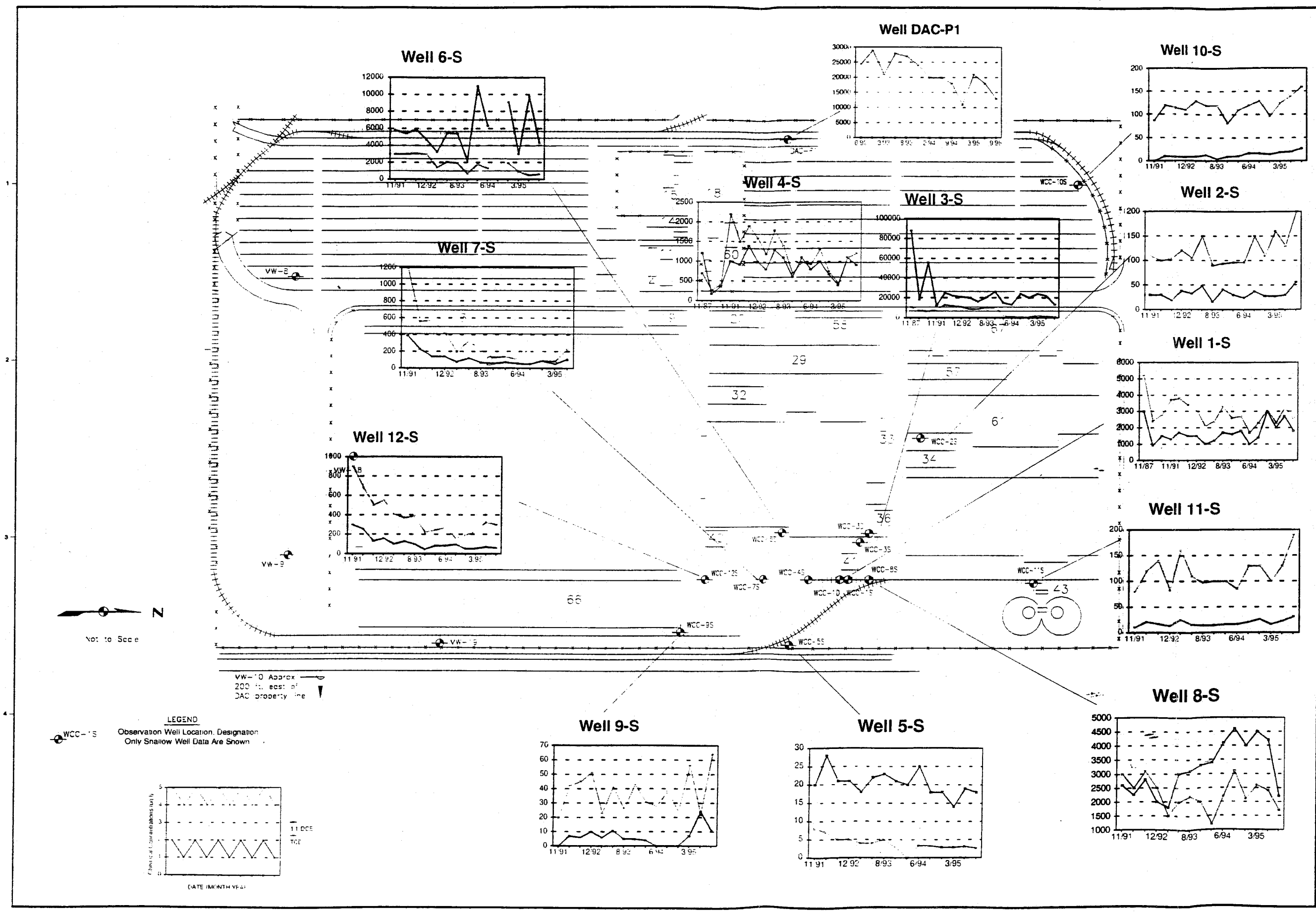

Douglas Aircraft Company
C-6 Facility
Torrance, California

Kennedy/Jenks Consultants
Submitted

Irvine, California

CHEMICAL CONCENTRATION PROFILES

November 1991 to September 1995

Scale: AS NOTED
Job No: 9240'0.0'
CADD File No:
Designed:
Drawn:
Checked:
Date:
Sheet: 5

BOE-C6-0137609

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: **212809**

Date Received: **09/07/95**
Date Reported: **09/19/95**
Date Amended: **09/28/95**

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

Project I.D.: **944016.00**

Location: **DAC**

Report On: **ELEVEN 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:

Berkeley *Irvine*

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: **212803**

Date Received: **09/06/95**

Date Reported: **09/19/95**

Date Amended: **09/28/95**

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

Project I.D.: **944016.00**

Location: **DAC**

Report On: **EIGHT LIIQUID 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:

Berkeley *Irvine*

VOLATILE ORGANICS

Client I.D.: WCC1S-12
Laboratory I.D.: 212809-004
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	10		ND	10
Benzene	51	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
Chloroform	16	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	22	5		ND	5
1,2-Dichloroethane	ND	5		ND	5
1,1-Dichloroethene	1800	250	a	ND	5
cis-1,2-Dichloroethene	37	5		ND	5
trans-1,2-Dichloroethene	37	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
Styrene	ND	5		ND	5

Analytical Notes

a - Result from 1:50 dilution.

	Sample	Method Blank
Date Sampled:	9/07/95	N/A
Date Analyzed:	9/13/95	9/13/95

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OLATILE ORGANICS

ent I.D.: WCC1S-12
oratory I.D.: 212809-004
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
,1,2-Tetrachloroethane	ND	5		ND	5
,1,2,2-Tetrachloroethane	ND	5		ND	5
etrachloroethene	ND	5		ND	5
uene	ND	5		ND	5
,3-Trichlorobenzene	ND	5		ND	5
,2,4-Trichlorobenzene	ND	5		ND	5
,1-Trichloroethane	22	5		ND	5
,2-Trichloroethane	ND	5		ND	5
richloroethene	2600	250	a	ND	5
richlorofluoromethane	ND	5		ND	5
,3-Trichloropropane	ND	5		ND	5
,4-Trimethylbenzene	ND	5		ND	5
,3,5-Trimethylbenzene	ND	5		ND	5
yl acetate	ND	10		ND	10
yl Chloride	ND	10		ND	10
-Xylene	ND	5		ND	5
n,p-Xylenes	ND	5		ND	5

Analytical Notes

a - Result from 1:50 dilution.

Quality Control Data Summary

Surrogate Recovery Data

npound	Spike Amount (ug/L)	Percent Recovery	QC Limits
uene-d8	50	96	80-120
romofluorobenzene	50	86	81-117
romofluoromethane	50	116	74-121

Laboratory Control Sample, Matrix Spike/Matrix Spike Duplicate Data

Batch I.D.: 8758AIC Sample I.D.: 212768-009

Compounds	Spike Amt. (ug/L)	LCS %Rec.	QC Limits	Spike %Rec.	Spk Dup %Rec.	QC Limits	RPD	QC Limits
1,1-Dichloroethene	25	90	80-120	85	87	61-145	2	14
Benzene	25	109	80-120	105	105	76-127	<1	11
Trichloroethene	25	87	80-120	87	86	71-120	1	14
Toluene	25	103	80-120	101	102	76-125	1	13
Chlorobenzene	25	104	80-120	107	104	75-130	3	13

OLATILE ORGANICS

nt I.D.: WCC2S-12
oratory I.D.: 212803-005
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
tone	ND	10		ND	10
zene	ND	5		ND	5
romobenzene	ND	5		ND	5
omochloromethane	ND	5		ND	5
nodichloromethane	ND	5		ND	5
mofom	ND	5		ND	5
romomethane	ND	10		ND	10
tanone	ND	10		ND	10
tylbenzene	ND	5		ND	5
c-Butylbenzene	ND	5		ND	5
t-Butylbenzene	ND	5		ND	5
on disulfide	ND	5		ND	5
on tetrachloride	ND	5		ND	5
lorobenzene	ND	5		ND	5
roethane	ND	10		ND	10
roform	ND	5		ND	5
loromethane	ND	10		ND	10
Chlorotoluene	ND	5		ND	5
lorotoluene	ND	5		ND	5
omochloromethane	ND	5		ND	5
2-Dibromo-3-chloropropane	ND	5		ND	5
ibromoethane	ND	5		ND	5
romomethane	ND	5		ND	5
2-Dichlorobenzene	ND	5		ND	5
3-Dichlorobenzene	ND	5		ND	5
ichlorobenzene	ND	5		ND	5
rodifluoromethane	ND	10		ND	10
-Dichloroethane	ND	5		ND	5
ichloroethane	ND	5		ND	5
ichloroethene	56	5		ND	5
-1,2-Dichloroethene	ND	5		ND	5
ns-1,2-Dichloroethene	ND	5		ND	5
ichloropropane	ND	5		ND	5
ichloropropane	ND	5		ND	5
2-Dichloropropane	ND	5		ND	5
ichloropropene	ND	5		ND	5
3-Dichloropropene	ND	5		ND	5
ns-1,3-Dichloropropene	ND	5		ND	5
ylbenzene	ND	5		ND	5
113	ND	5		ND	5
chlorobutadiene	ND	5		ND	5
Hexanone	ND	10		ND	10
pylbenzene	ND	5		ND	5
ropyltoluene	ND	5		ND	5
thylene chloride	ND	5		ND	5
Methyl-2-pentanone	ND	10		ND	10
thalene	ND	5		ND	5
pylbenzene	ND	5		ND	5
rene	ND	5		ND	5

Analytical Notes

	Sample	Method Blank
Date Sampled:	9/06/95	N/A
Date Analyzed:	9/12/95	9/11/95

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VOLATILE ORGANICS

ient I.D.: WCC2S-12
boratory I.D.: 212803-005
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
,1,2-Tetrachloroethane	ND	5		ND	5
1,1,2,2-Tetrachloroethane	ND	5		ND	5
Tetrachloroethene	ND	5		ND	5
luene	ND	5		ND	5
,3-Trichlorobenzene	ND	5		ND	5
1,2,4-Trichlorobenzene	ND	5		ND	5
,1-Trichloroethane	ND	5		ND	5
,2-Trichloroethane	ND	5		ND	5
Trichloroethene	200	5		ND	5
Trichlorofluoromethane	ND	5		ND	5
,3-Trichloropropane	ND	5		ND	5
,4-Trimethylbenzene	ND	5		ND	5
1,3,5-Trimethylbenzene	ND	5		ND	5
yl acetate	ND	10		ND	10
yl Chloride	ND	10		ND	10
o-Xylene	ND	5		ND	5
m,p-Xylenes	ND	5		ND	5

Analytical Notes

a - High surrogate recovery due to matrix effect (confirmed by reanalysis 09/12/95).

Quality Control Data Summary

Surrogate Recovery Data

pound	Spike Amount (ug/L)	Percent Recovery	QC Limits
ene-d8	50	97	80-120
romofluorobenzene	50	95	81-117
omofluoromethane	50	126-a	74-121

Laboratory Control Sample, Matrix Spike/Matrix Spike Duplicate Data

Batch I.D.: 8734AIA Sample I.D.: 212803-001

Compounds	Spike Amt. (ug/L)	LCS %Rec.	QC Limits	Spike %Rec.	Spk Dup %Rec.	QC Limits	RPD	QC Limits
1,1-Dichloroethene	25	106	80-120	93	92	61-145	1	14
Benzene	25	99	80-120	98	96	76-127	2	11
Trichloroethene	25	103	80-120	111	104	71-120	6	14
Toluene	25	94	80-120	90	92	76-125	2	13
Chlorobenzene	25	103	80-120	96	100	75-130	4	13

VOLATILE ORGANICS

Client I.D.: WCC3S-12
Laboratory I.D.: 212809-006
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	39	10		ND	10
Benzene	220	100	a	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	200	a	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
Chloroform	76	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	480	100	a	ND	5
1,2-Dichloroethane	99	5		ND	5
1,1-Dichloroethene	13000	500	b	ND	5
cis-1,2-Dichloroethene	6000	500	b	ND	5
trans-1,2-Dichloroethene	520	100	a	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	18	5		ND	5
Freon 113	ND	5		ND	5
Hexachlorobutadiene	ND	5		ND	5
2-Hexanone	200	10		ND	10
Isopropylbenzene	ND	5		ND	5
p-Isopropyltoluene	ND	5		ND	5
Methylene chloride	23	5		ND	5
4-Methyl-2-pentanone	4600	1000	b	ND	10
Naphthalene	ND	5		ND	5
n-Propylbenzene	ND	5		ND	5
Styrene	ND	5		ND	5

Analytical Notes

a - Result from 1:20 dilution.

b - Result from 1:100 dilution.

c - Result from 1:250 dilution.

	Sample	Method Blank
Date Sampled:	9/07/95	N/A
Date Analyzed:	9/13/95	9/13/95

(continued on next page)

VOLATILE ORGANICS

ent I.D.: WCC3S-12
oratory I.D.: 212809-006
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
,1,2-Tetrachloroethane	ND	5		ND	5
,1,2,2-Tetrachloroethane	ND	5		ND	5
rachloroethene	ND	5		ND	5
uene	31000	1250	c	ND	5
,2,3-Trichlorobenzene	ND	5		ND	5
,2,4-Trichlorobenzene	ND	5		ND	5
1-Trichloroethane	4100	500	b	ND	5
2-Trichloroethane	64	5		ND	5
richloroethene	910	100	a	ND	5
chlorofluoromethane	ND	5		ND	5
3-Trichloropropane	ND	5		ND	5
,2,4-Trimethylbenzene	ND	5		ND	5
,3,5-Trimethylbenzene	ND	5		ND	5
l acetate	100	10		ND	10
l Chloride	ND	10		ND	10
-Xylene	44	5		ND	5
-Xylenes	93	5		ND	5

Analytical Notes

a - Result from 1:20 dilution.

b - Result from 1:100 dilution.

c - Result from 1:250 dilution.

d - High surrogate recovery due to suspected sample matrix effect.

Quality Control Data Summary

Surrogate Recovery Data

pound	Spike Amount (ug/L)	Percent Recovery	QC Limits
oluene-d8	50	123 -d	80-120
romofluorobenzene	50	129-d	81-117
omofluoromethane	50	95	74-121

Laboratory Control Sample, Matrix Spike/Matrix Spike Duplicate Data

Batch I.D.: 8758AIC Sample I.D.: 212768-009

Compounds	Spike Amt. (ug/L)	LCS %Rec.	QC Limits	Spike %Rec.	Spk Dup %Rec.	QC Limits	RPD	QC Limits
1,1-Dichloroethene	25	90	80-120	85	87	61-145	2	14
Benzene	25	109	80-120	105	105	76-127	<1	11
Trichloroethene	25	87	80-120	87	86	71-120	1	14
Toluene	25	103	80-120	101	102	76-125	1	13
Chlorobenzene	25	104	80-120	107	104	75-130	3	13

OLATILE ORGANICS

nt I.D.: WCC4S-12
oratory I.D.: 212809-003
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
tone	ND	10		ND	10
zene	13	5		ND	5
omobenzene	ND	5		ND	5
omochloromethane	ND	5		ND	5
nodichloromethane	ND	5		ND	5
noform	ND	5		ND	5
omomethane	ND	10		ND	10
tanone	ND	10		ND	10
tylbenzene	ND	5		ND	5
c-Butylbenzene	ND	5		ND	5
t-Butylbenzene	ND	5		ND	5
on disulfide	ND	5		ND	5
on tetrachloride	ND	5		ND	5
lorobenzene	ND	5		ND	5
roethane	ND	10		ND	10
roform	6	5		ND	5
loromethane	ND	10		ND	10
Chlorotoluene	ND	5		ND	5
lorotoluene	ND	5		ND	5
omochloromethane	ND	5		ND	5
2-Dibromo-3-chloropropane	ND	5		ND	5
Dibromoethane	ND	5		ND	5
omomethane	ND	5		ND	5
2-Dichlorobenzene	ND	5		ND	5
3-Dichlorobenzene	ND	5		ND	5
Dichlorobenzene	ND	5		ND	5
lorodifluoromethane	ND	10		ND	10
1-Dichloroethane	8	5		ND	5
Dichloroethane	ND	5		ND	5
Dichloroethene	910	100	a	ND	5
s-1,2-Dichloroethene	10	5		ND	5
ns-1,2-Dichloroethene	9	5		ND	5
Dichloropropane	ND	5		ND	5
Dichloropropane	ND	5		ND	5
2-Dichloropropane	ND	5		ND	5
Dichloropropene	ND	5		ND	5
,3-Dichloropropene	ND	5		ND	5
ns-1,3-Dichloropropene	ND	5		ND	5
hylbenzene	ND	5		ND	5
n 113	ND	5		ND	5
chlorobutadiene	ND	5		ND	5
Hexanone	ND	10		ND	10
opylbenzene	ND	5		ND	5
propyltoluene	ND	5		ND	5
ethylene chloride	ND	5		ND	5
Methyl-2-pentanone	ND	10		ND	10
thalene	ND	5		ND	5
opylbenzene	ND	5		ND	5
yrene	ND	5		ND	5

Analytical Notes

a - Result from 1:20 dilution.

	Sample	Method Blank
Date Sampled:	9/07/95	N/A
Date Analyzed:	9/13/95	9/13/95

(continued on next page)

OLATILE ORGANICS

nt I.D.: WCC4S-12
oratory I.D.: 212809-003
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
1,2-Tetrachloroethane	ND	5		ND	5
,1,2,2-Tetrachloroethane	ND	5		ND	5
etrachloroethene	ND	5		ND	5
ene	ND	5		ND	5
,2,3-Trichlorobenzene	ND	5		ND	5
,2,4-Trichlorobenzene	ND	5		ND	5
1-Trichloroethane	6	5		ND	5
2-Trichloroethane	ND	5		ND	5
richloroethene	1200	100	a	ND	5
richlorofluoromethane	ND	5		ND	5
3-Trichloropropane	ND	5		ND	5
,2,4-Trimethylbenzene	ND	5		ND	5
,3,5-Trimethylbenzene	ND	5		ND	5
acetate	ND	10		ND	10
Chloride	ND	10		ND	10
-Xylene	ND	5		ND	5
m,p-Xylenes	ND	5		ND	5

Analytical Notes

a - Result from 1:20 dilution.

Quality Control Data Summary

Surrogate Recovery Data

Compound	Spike Amount (ug/L)	Percent Recovery	QC Limits
Toluene-d8	50	97	80-120
Bromofluorobenzene	50	93	81-117
Dibromofluoromethane	50	110	74-121

Laboratory Control Sample, Matrix Spike/Matrix Spike Duplicate Data

Batch I.D.: 8758AIC Sample I.D.: 212768-009

Compounds	Spike Amt. (ug/L)	LCS %Rec.	QC Limits	Spike %Rec.	Spk Dup %Rec.	QC Limits	RPD	QC Limits
1,1-Dichloroethene	25	90	80-120	85	87	61-145	2	14
Benzene	25	109	80-120	105	105	76-127	<1	11
Trichloroethene	25	87	80-120	87	86	71-120	1	14
Toluene	25	103	80-120	101	102	76-125	1	13
Chlorobenzene	25	104	80-120	107	104	75-130	3	13

VOLATILE ORGANICS

Client I.D.: WCC5S-12
Laboratory I.D.: 212803-001
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
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	18	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
Styrene	ND	5		ND	5

Analytical Notes

	Sample	Method Blank
Date Sampled:	9/06/95	N/A
Date Analyzed:	9/11/95	9/11/95

(continued on next page)

VOLATILE ORGANICS

ct

ient I.D.: WCC5S-12
boratory I.D.: 212803-001
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
,1,2-Tetrachloroethane	ND	5		ND	5
1,1,2,2-Tetrachloroethane	ND	5		ND	5
Tetrachloroethene	ND	5		ND	5
uene	ND	5		ND	5
,3-Trichlorobenzene	ND	5		ND	5
1,2,4-Trichlorobenzene	ND	5		ND	5
,1-Trichloroethane	ND	5		ND	5
,2-Trichloroethane	ND	5		ND	5
Trichloroethene	ND	5		ND	5
Trichlorofluoromethane	ND	5		ND	5
,3-Trichloropropane	ND	5		ND	5
,4-Trimethylbenzene	ND	5		ND	5
1,3,5-Trimethylbenzene	ND	5		ND	5
yl acetate	ND	10		ND	10
yl Chloride	ND	10		ND	10
o-Xylene	ND	5		ND	5
m,p-Xylenes	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	88	80-120
Bromofluorobenzene	50	90	81-117
Dibromofluoromethane	50	111	74-121

Laboratory Control Sample, Matrix Spike/Matrix Spike Duplicate Data

Batch I.D.: 8734AIA Sample I.D.: 212803-001

Compounds	Spike Amt. (ug/L)	LCS %Rec.	QC Limits	Spike %Rec.	Spk Dup %Rec.	QC Limits	RPD	QC Limits
1,1-Dichloroethene	25	106	80-120	93	92	61-145	1	14
Benzene	25	99	80-120	98	96	76-127	2	11
Trichloroethene	25	103	80-120	111	104	71-120	6	14
Toluene	25	94	80-120	90	92	76-125	2	13
Chlorobenzene	25	103	80-120	96	100	75-130	4	13

VOLATILE ORGANICS

Client I.D.: WCC6S-12
Laboratory I.D.: 212809-007
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	10		ND	10
Benzene	50	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	12	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
Chloroform	14	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	55	5		ND	5
1,2-Dichloroethane	39	5		ND	5
1,1-Dichloroethene	4300	250	b	ND	5
cis-1,2-Dichloroethene	2400	250	b	ND	5
trans-1,2-Dichloroethene	83	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	240	100	a	ND	10
Naphthalene	ND	5		ND	5
n-Propylbenzene	ND	5		ND	5
Styrene	ND	5		ND	5

Analytical Notes

a - Result from 1:10 dilution.

b - Result from 1:50 dilution.

	Sample	Method Blank
Date Sampled:	9/07/95	N/A
Date Analyzed:	9/13/95	9/13/95

(continued on next page)

OLATILE ORGANICS

ent I.D.: WCC6S-12
oratory I.D.: 212809-007
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
,1,2-Tetrachloroethane	ND	5		ND	5
1,1,2,2-Tetrachloroethane	ND	5		ND	5
Tetrachloroethene	ND	5		ND	5
luene	2900	250	b	ND	5
,3-Trichlorobenzene	ND	5		ND	5
1,2,4-Trichlorobenzene	ND	5		ND	5
,1-Trichloroethane	370	50	a	ND	5
,2-Trichloroethane	48	5		ND	5
Trichloroethene	620	50	a	ND	5
Trichlorofluoromethane	ND	5		ND	5
,3-Trichloropropane	ND	5		ND	5
,4-Trimethylbenzene	ND	5		ND	5
1,3,5-Trimethylbenzene	ND	5		ND	5
yl acetate	14	10		ND	10
yl Chloride	ND	10		ND	10
o-Xylene	6	5		ND	5
m,p-Xylenes	15	5		ND	5

Analytical Notes

a - Result from 1:10 dilution.

b - Result from 1:50 dilution.

Quality Control Data Summary

Surrogate Recovery Data

mpound	Spike Amount (ug/L)	Percent Recovery	QC Limits
luene-d8	50	100	80-120
Bromofluorobenzene	50	91	81-117
romofluoromethane	50	87	74-121

Laboratory Control Sample, Matrix Spike/Matrix Spike Duplicate Data

Batch I.D.: 8758AIC Sample I.D.: 212768-009

Compounds	Spike Amt. (ug/L)	LCS %Rec.	QC Limits	Spike %Rec.	Spk Dup %Rec.	QC Limits	RPD	QC Limits
1,1-Dichloroethene	25	90	80-120	85	87	61-145	2	14
Benzene	25	109	80-120	105	105	76-127	<1	11
Trichloroethene	25	87	80-120	87	86	71-120	1	14
Toluene	25	103	80-120	101	102	76-125	1	13
Chlorobenzene	25	104	80-120	107	104	75-130	3	13

OLATILE ORGANICS

nt I.D.: DW090795
oratory I.D.: 212809-011
lient: KENNEDY/JENKS

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

WCC-6S

Compound	Result (ug/L)	Detection Limit	Analytical Notes	Method Blank	Detection Limit
tone	ND	10		ND	10
zene	56	5		ND	5
romobenzene	ND	5		ND	5
romochloromethane	ND	5		ND	5
nodichloromethane	ND	5		ND	5
moform	ND	5		ND	5
romomethane	ND	10		ND	10
tanone	11	10		ND	10
tylbenzene	ND	5		ND	5
ec-Butylbenzene	ND	5		ND	5
ert-Butylbenzene	ND	5		ND	5
bon disulfide	ND	5		ND	5
bon tetrachloride	ND	5		ND	5
Chlorobenzene	ND	5		ND	5
roethane	ND	10		ND	10
roform	19	5		ND	5
Chloromethane	ND	10		ND	10
2-Chlorotoluene	ND	5		ND	5
4 hlorotoluene	ND	5		ND	5
D omochloromethane	ND	5		ND	5
,2-Dibromo-3-chloropropane	ND	5		ND	5
Dibromoethane	ND	5		ND	5
D omomethane	ND	5		ND	5
,2-Dichlorobenzene	ND	5		ND	5
1,3-Dichlorobenzene	ND	5		ND	5
1 Dichlorobenzene	ND	5		ND	5
D lorodifluoromethane	ND	10		ND	10
1,1-Dichloroethane	70	5		ND	5
1 Dichloroethane	55	5		ND	5
1 Dichloroethene	3800	250	b	ND	5
cis-1,2-Dichloroethene	2200	250	b	ND	5
trans-1,2-Dichloroethene	99	5		ND	5
1 Dichloropropane	ND	5		ND	5
1 Dichloropropane	ND	5		ND	5
2,2-Dichloropropane	ND	5		ND	5
1 Dichloropropene	ND	5		ND	5
c 1,3-Dichloropropene	ND	5		ND	5
trans-1,3-Dichloropropene	ND	5		ND	5
Ethylbenzene	ND	5		ND	5
F n 113	ND	5		ND	5
H achlorobutadiene	ND	5		ND	5
2-Hexanone	ND	10		ND	10
is ropylbenzene	ND	5		ND	5
p- opropyltoluene	ND	5		ND	5
Methylene chloride	ND	5		ND	5
4-Methyl-2-pentanone	180	100	a	ND	10
N nthalene	ND	5		ND	5
n opylbenzene	ND	5		ND	5
Styrene	ND	5		ND	5

Analytical Notes

a - Result from 1:10 dilution.

b - Result from 1:50 dilution.

	Sample	Method Blank
Date Sampled:	9/07/95	N/A
Date Analyzed:	9/14/95	9/14/95

(continued on next page)

VOLATILE ORGANICS

Client I.D.: DW090795
Laboratory I.D.: 212809-011
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
1,1,2-Tetrachloroethane	ND	5		ND	5
1,1,2,2-Tetrachloroethane	ND	5		ND	5
Tetrachloroethene	ND	5		ND	5
Toluene	2500	250	b	ND	5
1,2,3-Trichlorobenzene	ND	5		ND	5
1,2,4-Trichlorobenzene	ND	5		ND	5
1,1,1-Trichloroethane	310	50	a	ND	5
1,1,2-Trichloroethane	52	5		ND	5
Trichloroethene	520	50	a	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	17	10		ND	10
Vinyl Chloride	ND	10		ND	10
o-Xylene	6	5		ND	5
m,p-Xylenes	17	5		ND	5

Analytical Notes

a - Result from 1:10 dilution.

b - Result from 1:50 dilution.

Quality Control Data Summary

Surrogate Recovery Data

Compound	Spike Amount (ug/L)	Percent Recovery	QC Limits
Toluene-d8	50	103	80-120
Bromofluorobenzene	50	92	81-117
Dibromofluoromethane	50	102	74-121

Laboratory Control Sample, Matrix Spike/Matrix Spike Duplicate Data

Batch I.D.: 8758AID Sample I.D.: 212768-009

Compounds	Spike Amt. (ug/L)	LCS %Rec.	QC Limits	Spike %Rec.	Spk Dup %Rec.	QC Limits	RPD	QC Limits
1,1-Dichloroethene	25	88	80-120	85	87	61-145	2	14
Benzene	25	112	80-120	105	105	76-127	<1	11
Trichloroethene	25	88	80-120	87	86	71-120	1	14
Toluene	25	112	80-120	101	102	76-125	1	13
Chlorobenzene	25	108	80-120	107	104	75-130	3	13

OLATILE ORGANICS

ent I.D.: WCC7S-12
oratory I.D.: 212809-001
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
etone	ND	10		ND	10
nzene	ND	5		ND	5
Bromobenzene	ND	5		ND	5
Bromochloromethane	ND	5		ND	5
rmodichloromethane	ND	5		ND	5
romoform	ND	5		ND	5
Bromomethane	ND	10		ND	10
utanone	ND	10		ND	10
utylbenzene	ND	5		ND	5
sec-Butylbenzene	ND	5		ND	5
ert-Butylbenzene	ND	5		ND	5
bon disulfide	ND	5		ND	5
arbon tetrachloride	ND	5		ND	5
Chlorobenzene	ND	5		ND	5
oroethane	ND	10		ND	10
oroform	ND	5		ND	5
Chloromethane	ND	10		ND	10
2-Chlorotoluene	ND	5		ND	5
hlorotoluene	ND	5		ND	5
Dibromochloromethane	ND	5		ND	5
1,2-Dibromo-3-chloropropane	ND	5		ND	5
Dibromoethane	ND	5		ND	5
romomethane	ND	5		ND	5
1,2-Dichlorobenzene	ND	5		ND	5
1,3-Dichlorobenzene	ND	5		ND	5
Dichlorobenzene	ND	5		ND	5
hlorodifluoromethane	ND	10		ND	10
1,1-Dichloroethane	ND	5		ND	5
Dichloroethane	ND	5		ND	5
Dichloroethene	150	5		ND	5
cis-1,2-Dichloroethene	ND	5		ND	5
trans-1,2-Dichloroethene	ND	5		ND	5
Dichloropropane	ND	5		ND	5
Dichloropropane	ND	5		ND	5
2,2-Dichloropropane	ND	5		ND	5
Dichloropropene	ND	5		ND	5
1,3-Dichloropropene	ND	5		ND	5
trans-1,3-Dichloropropene	ND	5		ND	5
Ethylbenzene	ND	5		ND	5
on 113	ND	5		ND	5
Hexachlorobutadiene	ND	5		ND	5
2-Hexanone	ND	10		ND	10
ropylbenzene	ND	5		ND	5
opropyltoluene	ND	5		ND	5
Methylene chloride	ND	5		ND	5
4-Methyl-2-pentanone	ND	10		ND	10
hthalene	ND	5		ND	5
ropylbenzene	ND	5		ND	5
Styrene	ND	5		ND	5

Analytical Notes

	Sample	Method Blank
Date Sampled:	9/07/95	N/A
Date Analyzed:	9/13/95	9/13/95

(continued on next page)

VOLATILE ORGANICS

Client I.D.: WCC7S-12
Laboratory I.D.: 212809-001
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
,1,2-Tetrachloroethane	ND	5		ND	5
1,1,2,2-Tetrachloroethane	ND	5		ND	5
Tetrachloroethene	ND	5		ND	5
luene	ND	5		ND	5
,3-Trichlorobenzene	ND	5		ND	5
1,2,4-Trichlorobenzene	ND	5		ND	5
,1-Trichloroethane	ND	5		ND	5
,2-Trichloroethane	ND	5		ND	5
Trichloroethene	200	5		ND	5
Trichlorofluoromethane	ND	5		ND	5
,3-Trichloropropane	ND	5		ND	5
,4-Trimethylbenzene	ND	5		ND	5
1,3,5-Trimethylbenzene	ND	5		ND	5
Vinyl acetate	ND	10		ND	10
yl Chloride	ND	10		ND	10
o-Xylene	ND	5		ND	5
m,p-Xylenes	ND	5		ND	5

Analytical Notes

Quality Control Data Summary

Surrogate Recovery Data

mpound	Spike Amount (ug/L)	Percent Recovery	QC Limits
uene-d8	50	98	80-120
Bromofluorobenzene	50	89	81-117
ibromofluoromethane	50	115	74-121

Laboratory Control Sample, Matrix Spike/Matrix Spike Duplicate Data

Batch I.D.: 8758AIC Sample I.D.: 212768-009

Compounds	Spike Amt. (ug/L)	LCS %Rec.	QC Limits	Spike %Rec.	Spk Dup %Rec.	QC Limits	RPD	QC Limits
1,1-Dichloroethene	25	90	80-120	85	87	61-145	2	14
Benzene	25	109	80-120	105	105	76-127	<1	11
Trichloroethene	25	87	80-120	87	86	71-120	1	14
Toluene	25	103	80-120	101	102	76-125	1	13
Chlorobenzene	25	104	80-120	107	104	75-130	3	13

VOLATILE ORGANICS

Client I.D.: WCC8S-12
Laboratory I.D.: 212809-002
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	22	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
Chloroform	9	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	10	5		ND	5
1,2-Dichloroethane	ND	5		ND	5
1,1-Dichloroethene	2200	250	a	ND	5
cis-1,2-Dichloroethene	15	5		ND	5
trans-1,2-Dichloroethene	28	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
4-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
Styrene	ND	5		ND	5

Analytical Notes

a - Result from 1:50 dilution.

	Sample	Method Blank
Date Sampled:	9/07/95	N/A
Date Analyzed:	9/13/95	9/13/95

(continued on next page)

/OLATILE ORGANICS

ient I.D.: WCC8S-12
boratory I.D.: 212809-002
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
,1,2-Tetrachloroethane	ND	5		ND	5
1,1,2,2-Tetrachloroethane	ND	5		ND	5
Tetrachloroethene	ND	5		ND	5
luene	ND	5		ND	5
,3-Trichlorobenzene	ND	5		ND	5
1,2,4-Trichlorobenzene	ND	5		ND	5
,1-Trichloroethane	110	5		ND	5
,2-Trichloroethane	ND	5		ND	5
Trichloroethene	1700	250	a	ND	5
Trichlorofluoromethane	ND	5		ND	5
,3-Trichloropropane	ND	5		ND	5
,4-Trimethylbenzene	ND	5		ND	5
1,3,5-Trimethylbenzene	ND	5		ND	5
yl acetate	ND	10		ND	10
yl Chloride	ND	10		ND	10
o-Xylene	ND	5		ND	5
m,p-Xylenes	ND	5		ND	5

Analytical Notes

a - Result from 1:50 dilution.

Quality Control Data Summary

Surrogate Recovery Data

npound	Spike Amount (ug/L)	Percent Recovery	QC Limits
uene-d8	50	94	80-120
romofluorobenzene	50	90	81-117
romofluoromethane	50	109	74-121

Laboratory Control Sample, Matrix Spike/Matrix Spike Duplicate Data
Batch I.D.: 8758AIC Sample I.D.: 212768-009

Compounds	Spike Amt. (ug/L)	LCS %Rec.	QC Limits	Spike %Rec.	Spk Dup %Rec.	QC Limits	RPD	QC Limits
1,1-Dichloroethene	25	90	80-120	85	87	61-145	2	14
Benzene	25	109	80-120	105	105	76-127	<1	11
Trichloroethene	25	87	80-120	87	86	71-120	1	14
Toluene	25	103	80-120	101	102	76-125	1	13
Chlorobenzene	25	104	80-120	107	104	75-130	3	13

VOLATILE ORGANICS

ient I.D.: WCC9S-12
boratory I.D.: 212803-002
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
etone	ND	10		ND	10
nzene	ND	5		ND	5
Bromobenzene	ND	5		ND	5
Bromochloromethane	ND	5		ND	5
omodichloromethane	ND	5		ND	5
Bromoform	ND	5		ND	5
Bromomethane	ND	10		ND	10
Butanone	ND	10		ND	10
Butylbenzene	ND	5		ND	5
sec-Butylbenzene	ND	5		ND	5
tert-Butylbenzene	ND	5		ND	5
rbon disulfide	ND	5		ND	5
Carbon tetrachloride	ND	5		ND	5
Chlorobenzene	ND	5		ND	5
oroethane	ND	10		ND	10
oroform	19	5		ND	5
Chloromethane	ND	10		ND	10
2-Chlorotoluene	ND	5		ND	5
hlorotoluene	ND	5		ND	5
Dibromochloromethane	ND	5		ND	5
1,2-Dibromo-3-chloropropane	ND	5		ND	5
Dibromoethane	ND	5		ND	5
omomethane	ND	5		ND	5
,2-Dichlorobenzene	ND	5		ND	5
3-Dichlorobenzene	ND	5		ND	5
Dichlorobenzene	ND	5		ND	5
Dichlorodifluoromethane	ND	10		ND	10
,1-Dichloroethane	ND	5		ND	5
Dichloroethane	ND	5		ND	5
Dichloroethene	11	5		ND	5
is-1,2-Dichloroethene	ND	5		ND	5
ans-1,2-Dichloroethene	ND	5		ND	5
Dichloropropane	ND	5		ND	5
3-Dichloropropane	ND	5		ND	5
,2-Dichloropropane	ND	5		ND	5
Dichloropropene	ND	5		ND	5
1,3-Dichloropropene	ND	5		ND	5
ans-1,3-Dichloropropene	ND	5		ND	5
thylbenzene	ND	5		ND	5
n 113	ND	5		ND	5
exachlorobutadiene	ND	5		ND	5
-Hexanone	ND	10		ND	10
ropylbenzene	ND	5		ND	5
opropyltoluene	ND	5		ND	5
Methylene chloride	ND	5		ND	5
-Methyl-2-pentanone	ND	10		ND	10
nthalene	ND	5		ND	5
-Propylbenzene	ND	5		ND	5
tyrene	ND	5		ND	5

Analytical Notes

	Sample	Method Blank
Date Sampled:	9/06/95	N/A
Date Analyzed:	9/11/95	9/11/95

(continued on next page)

VOLATILE ORGANICS

lient I.D.: WCC9S-12
aboratory I.D.: 212803-002
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
1,1,2-Tetrachloroethane	ND	5		ND	5
1,1,2,2-Tetrachloroethane	ND	5		ND	5
Tetrachloroethene	ND	5		ND	5
oluene	ND	5		ND	5
1,2,3-Trichlorobenzene	ND	5		ND	5
1,2,4-Trichlorobenzene	ND	5		ND	5
1,1-Trichloroethane	ND	5		ND	5
1,2-Trichloroethane	ND	5		ND	5
Trichloroethene	64	5		ND	5
Trichlorofluoromethane	ND	5		ND	5
2,3-Trichloropropane	ND	5		ND	5
1,2,4-Trimethylbenzene	ND	5		ND	5
1,3,5-Trimethylbenzene	ND	5		ND	5
nyl acetate	ND	10		ND	10
nyl Chloride	ND	10		ND	10
o-Xylene	ND	5		ND	5
m,p-Xylenes	ND	5		ND	5

Analytical Notes

Quality Control Data Summary

Surrogate Recovery Data

mpound	Spike Amount (ug/L)	Percent Recovery	QC Limits
luene-d8	50	100	80-120
Bromofluorobenzene	50	96	81-117
romofluoromethane	50	117	74-121

Laboratory Control Sample, Matrix Spike/Matrix Spike Duplicate Data

Batch I.D.: 8734AIA Sample I.D.: 212803-001

Compounds	Spike Amt. (ug/L)	LCS %Rec.	QC Limits	Spike %Rec.	Spk Dup %Rec.	QC Limits	RPD	QC Limits
1,1-Dichloroethene	25	106	80-120	93	92	61-145	1	14
Benzene	25	99	80-120	98	96	76-127	2	11
Trichloroethene	25	103	80-120	111	104	71-120	6	14
Toluene	25	94	80-120	90	92	76-125	2	13
Chlorobenzene	25	103	80-120	96	100	75-130	4	13

OLATILE ORGANICS

ent I.D.: WCC10S-12
oratory I.D.: 212803-004
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
tone	ND	10		ND	10
nzene	ND	5		ND	5
Bromobenzene	ND	5		ND	5
romochloromethane	ND	5		ND	5
modichloromethane	ND	5		ND	5
omoform	ND	5		ND	5
Bromomethane	ND	10		ND	10
utanone	ND	10		ND	10
utylbenzene	ND	5		ND	5
ec-Butylbenzene	ND	5		ND	5
rt-Butylbenzene	ND	5		ND	5
bon disulfide	14	5		ND	5
rbon tetrachloride	ND	5		ND	5
Chlorobenzene	ND	5		ND	5
roethane	ND	10		ND	10
roform	ND	5		ND	5
Chloromethane	ND	10		ND	10
-Chlorotoluene	ND	5		ND	5
hlorotoluene	ND	5		ND	5
romochloromethane	ND	5		ND	5
,2-Dibromo-3-chloropropane	ND	5		ND	5
Dibromoethane	ND	5		ND	5
omomethane	ND	5		ND	5
2-Dichlorobenzene	ND	5		ND	5
3-Dichlorobenzene	ND	5		ND	5
Dichlorobenzene	ND	5		ND	5
lorodifluoromethane	ND	10		ND	10
,1-Dichloroethane	ND	5		ND	5
Dichloroethane	ND	5		ND	5
Dichloroethene	27	5		ND	5
s-1,2-Dichloroethene	ND	5		ND	5
ans-1,2-Dichloroethene	ND	5		ND	5
Dichloropropane	ND	5		ND	5
Dichloropropane	ND	5		ND	5
2-Dichloropropane	ND	5		ND	5
Dichloropropene	ND	5		ND	5
1,3-Dichloropropene	ND	5		ND	5
ans-1,3-Dichloropropene	ND	5		ND	5
thylbenzene	ND	5		ND	5
n 113	ND	5		ND	5
achlorobutadiene	ND	5		ND	5
Hexanone	ND	10		ND	10
ropylbenzene	ND	5		ND	5
opropyltoluene	ND	5		ND	5
ethylene chloride	ND	5		ND	5
Methyl-2-pentanone	ND	10		ND	10
hthalene	ND	5		ND	5
opylbenzene	ND	5		ND	5
yrene	ND	5		ND	5

Analytical Notes

	Sample	Method Blank
Date Sampled:	9/06/95	N/A
Date Analyzed:	9/12/95	9/11/95

(continued on next page)

VOLATILE ORGANICS

lient I.D.: WCC10S-12
aboratory I.D.: 212803-004
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
1,1,2-Tetrachloroethane	ND	5		ND	5
1,1,2,2-Tetrachloroethane	ND	5		ND	5
Tetrachloroethene	ND	5		ND	5
oluene	ND	5		ND	5
1,2,3-Trichlorobenzene	ND	5		ND	5
1,2,4-Trichlorobenzene	ND	5		ND	5
1,1-Trichloroethane	ND	5		ND	5
1,2-Trichloroethane	ND	5		ND	5
Trichloroethene	160	5		ND	5
Trichlorofluoromethane	ND	5		ND	5
2,3-Trichloropropane	ND	5		ND	5
1,2,4-Trimethylbenzene	ND	5		ND	5
1,3,5-Trimethylbenzene	ND	5		ND	5
nyl acetate	ND	10		ND	10
nyl Chloride	ND	10		ND	10
o-Xylene	ND	5		ND	5
m,p-Xylenes	ND	5		ND	5

Analytical Notes

a - High surrogate recovery due to matrix effect (confirmed by reanalysis 09/12/95).

Quality Control Data Summary

Surrogate Recovery Data

mpound	Spike Amount (ug/L)	Percent Recovery	QC Limits
oluene-d8	50	96	80-120
Bromofluorobenzene	50	91	81-117
romofluoromethane	50	132-a	74-121

Laboratory Control Sample, Matrix Spike/Matrix Spike Duplicate Data

Batch I.D.: 8734AIA Sample I.D.: 212803-001

Compounds	Spike Amt. (ug/L)	LCS %Rec.	QC Limits	Spike %Rec.	Spk Dup %Rec.	QC Limits	RPD	QC Limits
1,1-Dichloroethene	25	106	80-120	93	92	61-145	1	14
Benzene	25	99	80-120	98	96	76-127	2	11
Trichloroethene	25	103	80-120	111	104	71-120	6	14
Toluene	25	94	80-120	90	92	76-125	2	13
Chlorobenzene	25	103	80-120	96	100	75-130	4	13

VOLATILE ORGANICS

Client I.D.: WCC11S-12
Laboratory I.D.: 212803-006
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
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	31	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
Styrene	ND	5		ND	5

Analytical Notes

	Sample	Method Blank
Date Sampled:	9/06/95	N/A
Date Analyzed:	9/12/95	9/11/95

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/OLATIL ORGANICS

ent I.D.: WCC11S-12
aboratory I.D.: 212803-006
nt: 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
1,1,2-Tetrachloroethane	ND	5		ND	5
2,2-Tetrachloroethane	ND	5		ND	5
achloroethene	ND	5		ND	5
oluene	ND	5		ND	5
2,3-Trichlorobenzene	ND	5		ND	5
-Trichlorobenzene	ND	5		ND	5
-Trichloroethane	ND	5		ND	5
1,2-Trichloroethane	ND	5		ND	5
loroethene	190	5		ND	5
lorofluoromethane	ND	5		ND	5
2,3-Trichloropropane	ND	5		ND	5
2,4-Trimethylbenzene	ND	5		ND	5
-Trimethylbenzene	ND	5		ND	5
acetate	ND	10		ND	10
inyl Chloride	ND	10		ND	10
lene	ND	5		ND	5
Xylenes	ND	5		ND	5

Analytical Notes

a - High surrogate recovery due to matrix effect (confirmed by reanalysis 09/12/95).

Quality Control Data Summary

Surrogate Recovery Data

ompound	Spike Amount (ug/L)	Percent Recovery	QC Limits
oluene-d8	50	97	80-120
ofluorobenzene	50	91	81-117
omofluoromethane	50	125-a	74-121

Laboratory Control Sample, Matrix Spike/Matrix Spike Duplicate Data

Batch I.D.: 8734AIA Sample I.D.: 212803-001

Compounds	Spike Amt. (ug/L)	LCS %Rec.	QC Limits	Spike %Rec.	Spk Dup %Rec.	QC Limits	RPD	QC Limits
1,1-Dichloroethene	25	106	80-120	93	92	61-145	1	14
Benzene	25	99	80-120	98	96	76-127	2	11
Trichloroethene	25	103	80-120	111	104	71-120	6	14
Toluene	25	94	80-120	90	92	76-125	2	13
Chlorobenzene	25	103	80-120	96	100	75-130	4	13

VOLATILE ORGANICS

ent I.D.: DW090695
aboratory I.D.: 212803-008
nt: KENNEDY/JENKS

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

WCC-11S

Compound	Result (ug/L)	Detection Limit	Analytical Notes	Method Blank	Detection Limit
etone	ND	10		ND	10
enzene	ND	5		ND	5
nobenzene	ND	5		ND	5
mochloromethane	ND	5		ND	5
romodichloromethane	ND	5		ND	5
amoform	ND	5		ND	5
nomethane	ND	10		ND	10
utanone	ND	10		ND	10
-Butylbenzene	ND	5		ND	5
-Butylbenzene	ND	5		ND	5
-Butylbenzene	ND	5		ND	5
arbon disulfide	ND	5		ND	5
rbon tetrachloride	ND	5		ND	5
orobenzene	ND	5		ND	5
loroethane	ND	10		ND	10
hloroform	ND	5		ND	5
oromethane	ND	10		ND	10
hlorotoluene	ND	5		ND	5
-Chlorotoluene	ND	5		ND	5
ibromochloromethane	ND	5		ND	5
-Dibromo-3-chloropropane	ND	5		ND	5
-Dibromoethane	ND	5		ND	5
ibromomethane	ND	5		ND	5
-Dichlorobenzene	ND	5		ND	5
-Dichlorobenzene	ND	5		ND	5
1,4-Dichlorobenzene	ND	5		ND	5
chlorodifluoromethane	ND	10		ND	10
Dichloroethane	ND	5		ND	5
-Dichloroethane	ND	5		ND	5
1,1-Dichloroethene	30	5		ND	5
1,2-Dichloroethene	ND	5		ND	5
s-1,2-Dichloroethene	ND	5		ND	5
1,2-Dichloropropane	ND	5		ND	5
1,3-Dichloropropane	ND	5		ND	5
-Dichloropropane	ND	5		ND	5
-Dichloropropene	ND	5		ND	5
cis-1,3-Dichloropropene	ND	5		ND	5
s-1,3-Dichloropropene	ND	5		ND	5
ylbenzene	ND	5		ND	5
Freon 113	ND	5		ND	5
Hexachlorobutadiene	ND	5		ND	5
exanone	ND	10		ND	10
sopropylbenzene	ND	5		ND	5
p-isopropyltoluene	ND	5		ND	5
thylene chloride	ND	5		ND	5
ethyl-2-pentanone	ND	10		ND	10
Naphthalene	ND	5		ND	5
n-Propylbenzene	ND	5		ND	5
rene	ND	5		ND	5

Analytical Notes

	Sample	Method Blank
Date Sampled:	9/06/95	N/A
Date Analyzed:	9/12/95	9/11/95

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VOLATILE ORGANICS

ient I.D.: DW090695
Laboratory I.D.: 212803-008
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
1,1,1,2-Tetrachloroethane	ND	5		ND	5
1,2,2-Tetrachloroethane	ND	5		ND	5
trachloroethene	ND	5		ND	5
oluene	ND	5		ND	5
1,2,3-Trichlorobenzene	ND	5		ND	5
2,4-Trichlorobenzene	ND	5		ND	5
1,1-Trichloroethane	ND	5		ND	5
1,1,2-Trichloroethane	ND	5		ND	5
ichloroethene	200	10	b	ND	5
ichlorofluoromethane	ND	5		ND	5
2,3-Trichloropropane	ND	5		ND	5
1,2,4-Trimethylbenzene	ND	5		ND	5
3,5-Trimethylbenzene	ND	5		ND	5
nyl acetate	ND	10		ND	10
Vinyl Chloride	ND	10		ND	10
Xylene	ND	5		ND	5
p-Xylenes	ND	5		ND	5

Analytical Notes

a - High surrogate recovery due to matrix effect (confirmed by reanalysis 09/12/95).

b - Result from a 1:2 dilution run on 09/12/95.

Quality Control Data Summary

Surrogate Recovery Data

Compound	Spike Amount (ug/L)	Percent Recovery	QC Limits
Toluene-d8	50	98	80-120
omofluorobenzene	50	94	81-117
oromofluoromethane	50	127-a	74-121

Laboratory Control Sample, Matrix Spike/Matrix Spike Duplicate Data
Batch I.D.: 8734AIA Sample I.D.: 212803-001

Compounds	Spike Amt. (ug/L)	LCS %Rec.	QC Limits	Spike %Rec.	Spk Dup %Rec.	QC Limits	RPD	QC Limits
1,1-Dichloroethene	25	106	80-120	93	92	61-145	1	14
Benzene	25	99	80-120	98	96	76-127	2	11
Trichloroethene	25	103	80-120	111	104	71-120	6	14
Toluene	25	94	80-120	90	92	76-125	2	13
Chlorobenzene	25	103	80-120	96	100	75-130	4	13

VOLATILE ORGANICS

lient I.D.: WCC12S-12
Laboratory I.D.: 212803-007
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
Benzene	ND	5		ND	5
Bromobenzene	ND	5		ND	5
romochloromethane	ND	5		ND	5
Bromodichloromethane	ND	5		ND	5
Bromoform	ND	5		ND	5
romomethane	ND	10		ND	10
Butanone	ND	10		ND	10
n-Butylbenzene	ND	5		ND	5
ec-Butylbenzene	ND	5		ND	5
rt-Butylbenzene	ND	5		ND	5
arbon disulfide	33	5		ND	5
Carbon tetrachloride	ND	5		ND	5
hlorobenzene	ND	5		ND	5
hloroethane	ND	10		ND	10
Chloroform	ND	5		ND	5
Chloromethane	ND	10		ND	10
-Chlorotoluene	ND	5		ND	5
-Chlorotoluene	ND	5		ND	5
Dibromochloromethane	ND	5		ND	5
2-Dibromo-3-chloropropane	ND	5		ND	5
2-Dibromoethane	ND	5		ND	5
Dibromomethane	ND	5		ND	5
1,2-Dichlorobenzene	ND	5		ND	5
,3-Dichlorobenzene	ND	5		ND	5
,4-Dichlorobenzene	ND	5		ND	5
Dichlorodifluoromethane	ND	10		ND	10
1-Dichloroethane	32	5		ND	5
2-Dichloroethane	ND	5		ND	5
1,1-Dichloroethene	60	5		ND	5
cis-1,2-Dichloroethene	ND	5		ND	5
ans-1,2-Dichloroethene	ND	5		ND	5
,2-Dichloropropane	ND	5		ND	5
1,3-Dichloropropane	ND	5		ND	5
,2-Dichloropropane	ND	5		ND	5
,1-Dichloropropene	ND	5		ND	5
cis-1,3-Dichloropropene	ND	5		ND	5
trans-1,3-Dichloropropene	ND	5		ND	5
thylbenzene	ND	5		ND	5
reon 113	ND	5		ND	5
Hexachlorobutadiene	ND	5		ND	5
-Hexanone	ND	10		ND	10
opropylbenzene	ND	5		ND	5
p-isopropyltoluene	ND	5		ND	5
Methylene chloride	ND	5		ND	5
-Methyl-2-pentanone	ND	10		ND	10
aphthalene	ND	5		ND	5
n-Propylbenzene	ND	5		ND	5
tyrene	ND	5		ND	5

Analytical Notes

	Sample	Method Blank
Date Sampled:	9/06/95	N/A
Date Analyzed:	9/12/95	9/11/95

(continued on next page)

VOLATILE ORGANICS

ient I.D.: WCC12S-12
Laboratory I.D.: 212803-007
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
1,1,1,2-Tetrachloroethane	ND	5		ND	5
1,1,2,2-Tetrachloroethane	ND	5		ND	5
trachloroethene	ND	5		ND	5
luene	ND	5		ND	5
1,2,3-Trichlorobenzene	ND	5		ND	5
,4-Trichlorobenzene	ND	5		ND	5
,1-Trichloroethane	ND	5		ND	5
1,1,2-Trichloroethane	ND	5		ND	5
Trichloroethene	300	12.5	b	ND	5
chlorofluoromethane	ND	5		ND	5
,2,3-Trichloropropane	ND	5		ND	5
1,2,4-Trimethylbenzene	ND	5		ND	5
,5-Trimethylbenzene	ND	5		ND	5
yl acetate	ND	10		ND	10
Vinyl Chloride	ND	10		ND	10
o-Xylene	ND	5		ND	5
-Xylenes	ND	5		ND	5

Analytical Notes

a - High surrogate recovery due to matrix effect (confirmed by reanalysis 09/12/95).

b - Result from a 1:2.5 dilution run on 09/12/95.

Quality Control Data Summary

Surrogate Recovery Data

Compound	Spike Amount (ug/L)	Percent Recovery	QC Limits
Toluene-d8	50	99	80-120
romofluorobenzene	50	98	81-117
romofluoromethane	50	131-a	74-121

Laboratory Control Sample, Matrix Spike/Matrix Spike Duplicate Data

Batch I.D.: 8734AIA Sample I.D.: 212803-001

Compounds	Spike Amt. (ug/L)	LCS %Rec.	QC Limits	Spike %Rec.	Spk Dup %Rec.	QC Limits	RPD	QC Limits
1,1-Dichloroethene	25	106	80-120	93	92	61-145	1	14
Benzene	25	99	80-120	98	96	76-127	2	11
Trichloroethene	25	103	80-120	111	104	71-120	6	14
Toluene	25	94	80-120	90	92	76-125	2	13
Chlorobenzene	25	103	80-120	96	100	75-130	4	13

VOLATILE ORGANICS

ent I.D.: DACP1-12
aboratory I.D.: 212809-008
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
tone	ND	10		ND	10
enzene	ND	5		ND	5
mobenzene	ND	5		ND	5
rnochloromethane	ND	5		ND	5
romodichloromethane	ND	5		ND	5
omoform	ND	5		ND	5
omomethane	ND	10		ND	10
utanone	ND	10		ND	10
-Butylbenzene	ND	5		ND	5
-Butylbenzene	ND	5		ND	5
-Butylbenzene	ND	5		ND	5
arbon disulfide	ND	5		ND	5
arbon tetrachloride	ND	5		ND	5
robenzene	ND	5		ND	5
oroethane	ND	10		ND	10
Chloroform	33	5		ND	5
loromethane	ND	10		ND	10
hlorotoluene	ND	5		ND	5
-Chlorotoluene	ND	5		ND	5
Dibromochloromethane	ND	5		ND	5
-Dibromo-3-chloropropane	ND	5		ND	5
-Dibromoethane	ND	5		ND	5
Dibromomethane	ND	5		ND	5
-Dichlorobenzene	ND	5		ND	5
-Dichlorobenzene	ND	5		ND	5
-Dichlorobenzene	ND	5		ND	5
Dichlorodifluoromethane	ND	10		ND	10
-Dichloroethane	ND	5		ND	5
-Dichloroethane	ND	5		ND	5
1,1-Dichloroethene	12	5		ND	5
-1,2-Dichloroethene	89	5		ND	5
ns-1,2-Dichloroethene	ND	5		ND	5
2-Dichloropropane	ND	5		ND	5
1,3-Dichloropropane	ND	5		ND	5
-Dichloropropane	ND	5		ND	5
-Dichloropropene	ND	5		ND	5
cis-1,3-Dichloropropene	ND	5		ND	5
ans-1,3-Dichloropropene	ND	5		ND	5
ylbenzene	ND	5		ND	5
Freon 113	ND	5		ND	5
Hexachlorobutadiene	ND	5		ND	5
Hexanone	ND	10		ND	10
propylbenzene	ND	5		ND	5
p-isopropyltoluene	ND	5		ND	5
thylene chloride	ND	5		ND	5
ethyl-2-pentanone	ND	10		ND	10
Naphthalene	ND	5		ND	5
n-Propylbenzene	ND	5		ND	5
rene	ND	5		ND	5

Analytical Notes

	Sample	Method Blank
Date Sampled:	9/07/95	N/A
Date Analyzed:	9/14/95	9/13/95

(continued on next page)

VOLATILE ORGANICS

Client I.D.: DACP1-12
Laboratory I.D.: 212809-008
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
1,1,1,2-Tetrachloroethane	ND	5		ND	5
1,1,2,2-Tetrachloroethane	ND	5		ND	5
Tetrachloroethene	17	5		ND	5
Toluene	53	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	13000	500	a	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
o-Xylene	ND	5		ND	5
m,p-Xylenes	ND	5		ND	5

Analytical Notes

a - Result from 1:100 dilution.

Quality Control Data Summary

Surrogate Recovery Data

Compound	Spike Amount (ug/L)	Percent Recovery	QC Limits
Toluene-d8	50	95	80-120
Bromofluorobenzene	50	89	81-117
Dibromofluoromethane	50	106	74-121

Laboratory Control Sample, Matrix Spike/Matrix Spike Duplicate Data

Batch I.D.: 8758AIC Sample I.D.: 212768-009

Compounds	Spike Amt. (ug/L)	LCS %Rec.	QC Limits	Spike %Rec.	Spk Dup %Rec.	QC Limits	RPD	QC Limits
1,1-Dichloroethene	25	90	80-120	85	87	61-145	2	14
Benzene	25	109	80-120	105	105	76-127	<1	11
Trichloroethene	25	87	80-120	87	86	71-120	1	14
Toluene	25	103	80-120	101	102	76-125	1	13
Chlorobenzene	25	104	80-120	107	104	75-130	3	13

VOLATILE ORGANICS

Client I.D.: WCC1D-12
Laboratory I.D.: 212803-003
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
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	150	5		ND	5
trans-1,2-Dichloroethene	ND	5		ND	5
cis-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
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
Styrene	ND	5		ND	5

Analytical Notes

	Sample	Method Blank
Date Sampled:	9/06/95	N/A
Date Analyzed:	9/12/95	9/11/95

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VOLATILE ORGANICS

ent I.D.: WCC1D-12
Laboratory I.D.: 212803-003
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
,1,1,2-Tetrachloroethane	ND	5		ND	5
2,2-Tetrachloroethane	ND	5		ND	5
rachloroethene	ND	5		ND	5
luene	ND	5		ND	5
2,3-Trichlorobenzene	ND	5		ND	5
4-Trichlorobenzene	ND	5		ND	5
1-Trichloroethane	ND	5		ND	5
,1,2-Trichloroethane	ND	5		ND	5
chloroethene	29	5		ND	5
hlorofluoromethane	ND	5		ND	5
2,3-Trichloropropane	ND	5		ND	5
2,4-Trimethylbenzene	ND	5		ND	5
5-Trimethylbenzene	ND	5		ND	5
l acetate	ND	10		ND	10
Vinyl Chloride	ND	10		ND	10
Xylene	ND	5		ND	5
-Xylenes	ND	5		ND	5

Analytical Notes

a - High surrogate recovery due to matrix effect (confirmed by reanalysis 09/12/95).

Quality Control Data Summary

Surrogate Recovery Data

Compound	Spike Amount (ug/L)	Percent Recovery	QC Limits
Toluene-d8	50	98	80-120
ofluorobenzene	50	97	81-117
omofluoromethane	50	122-a	74-121

Laboratory Control Sample, Matrix Spike/Matrix Spike Duplicate Data

Batch I.D.: 8734AIA Sample I.D.: 212803-001

Compounds	Spike Amt. (ug/L)	LCS %Rec.	QC Limits	Spike %Rec.	Spk Dup %Rec.	QC Limits	RPD	QC Limits
1,1-Dichloroethene	25	106	80-120	93	92	61-145	1	14
Benzene	25	99	80-120	98	96	76-127	2	11
Trichloroethene	25	103	80-120	111	104	71-120	6	14
Toluene	25	94	80-120	90	92	76-125	2	13
Chlorobenzene	25	103	80-120	96	100	75-130	4	13

VOLATILE ORGANICS

ent I.D.: WCC3D-12
Laboratory I.D.: 212809-005
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
Benzene	13	5		ND	5
omobenzene	ND	5		ND	5
omochloromethane	ND	5		ND	5
Bromodichloromethane	ND	5		ND	5
Bromoform	ND	5		ND	5
omomethane	ND	10		ND	10
Butanone	ND	10		ND	10
n-Butylbenzene	ND	5		ND	5
c-Butylbenzene	ND	5		ND	5
-Butylbenzene	ND	5		ND	5
Carbon disulfide	ND	5		ND	5
Carbon tetrachloride	ND	5		ND	5
lorobenzene	ND	5		ND	5
loroethane	ND	10		ND	10
Chloroform	ND	5		ND	5
loromethane	ND	10		ND	10
hlorotoluene	ND	5		ND	5
4-Chlorotoluene	ND	5		ND	5
Dibromochloromethane	ND	5		ND	5
-Dibromo-3-chloropropane	ND	5		ND	5
-Dibromoethane	ND	5		ND	5
Dibromomethane	ND	5		ND	5
-Dichlorobenzene	ND	5		ND	5
-Dichlorobenzene	ND	5		ND	5
1,4-Dichlorobenzene	ND	5		ND	5
Dichlorodifluoromethane	ND	10		ND	10
-Dichloroethane	13	5		ND	5
-Dichloroethane	6	5		ND	5
1,1-Dichloroethene	3400	500	b	ND	5
-1,2-Dichloroethene	60	5		ND	5
ns-1,2-Dichloroethene	30	5		ND	5
1,2-Dichloropropane	ND	5		ND	5
1,3-Dichloropropane	ND	5		ND	5
-Dichloropropane	ND	5		ND	5
-Dichloropropene	ND	5		ND	5
cis-1,3-Dichloropropene	ND	5		ND	5
ns-1,3-Dichloropropene	ND	5		ND	5
ylbenzene	ND	5		ND	5
Freon 113	ND	5		ND	5
Hexachlorobutadiene	ND	5		ND	5
lexanone	ND	10		ND	10
propylbenzene	ND	5		ND	5
p-isopropyltoluene	ND	5		ND	5
thylene chloride	ND	5		ND	5
ethyl-2-pentanone	170	10		ND	10
Naphthalene	ND	5		ND	5
n-Propylbenzene	ND	5		ND	5
rene	ND	5		ND	5

Analytical Notes

a - Result from 1:20 dilution.

b - Result from 1:100 dilution.

	Sample	Method Blank
Date Sampled:	9/07/95	N/A
Date Analyzed:	9/13/95	9/13/95

(continued on next page)

VOLATILE ORGANICS

Client I.D.: WCC3D-12
Laboratory I.D.: 212809-005
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
1,1,1,2-Tetrachloroethane	ND	5		ND	5
1,1,2,2-Tetrachloroethane	ND	5		ND	5
etrachloroethene	ND	5		ND	5
oluene	4700	500	b	ND	5
1,2,3-Trichlorobenzene	ND	5		ND	5
2,4-Trichlorobenzene	ND	5		ND	5
1,1-Trichloroethane	4100	500	b	ND	5
1,1,2-Trichloroethane	35	5		ND	5
Trichloroethene	520	100	a	ND	5
ichlorofluoromethane	ND	5		ND	5
2,3-Trichloropropane	ND	5		ND	5
1,2,4-Trimethylbenzene	ND	5		ND	5
3,5-Trimethylbenzene	ND	5		ND	5
nyl acetate	ND	10		ND	10
Vinyl Chloride	ND	10		ND	10
o-Xylene	ND	5		ND	5
p-Xylenes	8	5		ND	5

Analytical Notes

a - Result from 1:20 dilution.

b - Result from 1:100 dilution.

Quality Control Data Summary

Surrogate Recovery Data

Compound	Spike Amount (ug/L)	Percent Recovery	QC Limits
Toluene-d8	50	104	80-120
romofluorobenzene	50	93	81-117
romofluoromethane	50	119	74-121

Laboratory Control Sample, Matrix Spike/Matrix Spike Duplicate Data
Batch I.D.: 8758AIC Sample I.D.: 212768-009

Compounds	Spike Amt. (ug/L)	LCS %Rec.	QC Limits	Spike %Rec.	Spk Dup %Rec.	QC Limits	RPD	QC Limits
1,1-Dichloroethene	25	90	80-120	85	87	61-145	2	14
Benzene	25	109	80-120	105	105	76-127	<1	11
Trichloroethene	25	87	80-120	87	86	71-120	1	14
Toluene	25	103	80-120	101	102	76-125	1	13
Chlorobenzene	25	104	80-120	107	104	75-130	3	13

APPENDIX B

LABORATORY/FIELD QUALITY CONTROL DATA SHEETS

VOLATILE ORGANICS

ent I.D.: EB090795
Laboratory I.D.: 212809-009
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
Benzene	ND	5		ND	5
omobenzene	ND	5		ND	5
omochloromethane	ND	5		ND	5
Bromodichloromethane	ND	5		ND	5
Bromoform	ND	5		ND	5
omomethane	ND	10		ND	10
utanone	ND	10		ND	10
n-Butylbenzene	ND	5		ND	5
c-Butylbenzene	ND	5		ND	5
-Butylbenzene	ND	5		ND	5
arbon disulfide	ND	5		ND	5
Carbon tetrachloride	ND	5		ND	5
lorobenzene	ND	5		ND	5
loroethane	ND	10		ND	10
Chloroform	ND	5		ND	5
loromethane	ND	10		ND	10
hlorotoluene	ND	5		ND	5
4-Chlorotoluene	ND	5		ND	5
Dibromochloromethane	ND	5		ND	5
-Dibromo-3-chloropropane	ND	5		ND	5
-Dibromoethane	ND	5		ND	5
Dibromomethane	ND	5		ND	5
-Dichlorobenzene	ND	5		ND	5
-Dichlorobenzene	ND	5		ND	5
,4-Dichlorobenzene	ND	5		ND	5
ichlorodifluoromethane	ND	10		ND	10
-Dichloroethane	ND	5		ND	5
-Dichloroethane	ND	5		ND	5
1,1-Dichloroethene	ND	5		ND	5
-1,2-Dichloroethene	ND	5		ND	5
ns-1,2-Dichloroethene	ND	5		ND	5
,2-Dichloropropane	ND	5		ND	5
1,3-Dichloropropane	ND	5		ND	5
-Dichloropropane	ND	5		ND	5
-Dichloropropene	ND	5		ND	5
cis-1,3-Dichloropropene	ND	5		ND	5
ns-1,3-Dichloropropene	ND	5		ND	5
lbenzene	ND	5		ND	5
Freon 113	ND	5		ND	5
Hexachlorobutadiene	ND	5		ND	5
exanone	ND	10		ND	10
propylbenzene	ND	5		ND	5
p-isopropyltoluene	ND	5		ND	5
thylene chloride	ND	5		ND	5
ethyl-2-pentanone	ND	10		ND	10
Naphthalene	ND	5		ND	5
n-Propylbenzene	ND	5		ND	5
rene	ND	5		ND	5

Analytical Notes

	Sample	Method Blank
Date Sampled:	9/07/95	N/A
Date Analyzed:	9/14/95	9/14/95

(continued on next page)

VOLATILE ORGANICS

lient I.D.: EB090795
Laboratory I.D.: 212809-009
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
1,1,1,2-Tetrachloroethane	ND	5		ND	5
1,2,2-Tetrachloroethane	ND	5		ND	5
etrachloroethene	ND	5		ND	5
oluene	ND	5		ND	5
1,2,3-Trichlorobenzene	ND	5		ND	5
2,4-Trichlorobenzene	ND	5		ND	5
1,1-Trichloroethane	ND	5		ND	5
1,1,2-Trichloroethane	ND	5		ND	5
richloroethene	ND	5		ND	5
ichlorofluoromethane	ND	5		ND	5
2,3-Trichloropropane	ND	5		ND	5
1,2,4-Trimethylbenzene	ND	5		ND	5
3,5-Trimethylbenzene	ND	5		ND	5
nyl acetate	ND	10		ND	10
Vinyl Chloride	ND	10		ND	10
Xylene	ND	5		ND	5
p-Xylenes	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	95	80-120
omofluorobenzene	50	90	81-117
bromofluoromethane	50	117	74-121

Laboratory Control Sample, Matrix Spike/Matrix Spike Duplicate Data
Batch I.D.: 8758AID Sample I.D.: 212768-009

Compounds	Spike Amt. (ug/L)	LCS %Rec.	QC Limits	Spike %Rec.	Spk Dup %Rec.	QC Limits	RPD	QC Limits
1,1-Dichloroethene	25	88	80-120	85	87	61-145	2	14
Benzene	25	112	80-120	105	105	76-127	<1	11
Trichloroethene	25	88	80-120	87	86	71-120	1	14
Toluene	25	112	80-120	101	102	76-125	1	13
Chlorobenzene	25	108	80-120	107	104	75-130	3	13

VOLATILE ORGANICS

ent I.D.: TB090795
aboratory I.D.: 212809-010
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
Benzene	ND	5		ND	5
omobenzene	ND	5		ND	5
omochloromethane	ND	5		ND	5
Bromodichloromethane	ND	5		ND	5
Bromoform	ND	5		ND	5
omomethane	ND	10		ND	10
Butanone	ND	10		ND	10
n-Butylbenzene	ND	5		ND	5
-Butylbenzene	ND	5		ND	5
-Butylbenzene	ND	5		ND	5
Carbon disulfide	ND	5		ND	5
Carbon tetrachloride	ND	5		ND	5
lorobenzene	ND	5		ND	5
oroethane	ND	10		ND	10
Chloroform	ND	5		ND	5
loromethane	ND	10		ND	10
hlorotoluene	ND	5		ND	5
4-Chlorotoluene	ND	5		ND	5
Dibromochloromethane	ND	5		ND	5
-Dibromo-3-chloropropane	ND	5		ND	5
-Dibromoethane	ND	5		ND	5
Dibromomethane	ND	5		ND	5
-Dichlorobenzene	ND	5		ND	5
-Dichlorobenzene	ND	5		ND	5
1,4-Dichlorobenzene	ND	5		ND	5
Dichlorodifluoromethane	ND	10		ND	10
-Dichloroethane	ND	5		ND	5
-Dichloroethane	ND	5		ND	5
1,1-Dichloroethene	ND	5		ND	5
-1,2-Dichloroethene	ND	5		ND	5
s-1,2-Dichloroethene	ND	5		ND	5
1,2-Dichloropropane	ND	5		ND	5
1,3-Dichloropropane	ND	5		ND	5
-Dichloropropane	ND	5		ND	5
-Dichloropropene	ND	5		ND	5
cis-1,3-Dichloropropene	ND	5		ND	5
ns-1,3-Dichloropropene	ND	5		ND	5
ylbenzene	ND	5		ND	5
Freon 113	ND	5		ND	5
Hexachlorobutadiene	ND	5		ND	5
Hexanone	ND	10		ND	10
opropylbenzene	ND	5		ND	5
p-isopropyltoluene	ND	5		ND	5
thylene chloride	ND	5		ND	5
Methyl-2-pentanone	ND	10		ND	10
Naphthalene	ND	5		ND	5
n-Propylbenzene	ND	5		ND	5
rene	ND	5		ND	5

Analytical Notes

	Sample	Method Blank
Date Sampled:	9/07/95	N/A
Date Analyzed:	9/14/95	9/14/95

(continued on next page)

VOLATILE ORGANICS

nt I.D.: TB090795
aboratory I.D.: 212809-010
nt: 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
1,1,2-Tetrachloroethane	ND	5		ND	5
2,2-Tetrachloroethane	ND	5		ND	5
achloroethene	ND	5		ND	5
luene	ND	5		ND	5
2,3-Trichlorobenzene	ND	5		ND	5
4-Trichlorobenzene	ND	5		ND	5
-Trichloroethane	ND	5		ND	5
,1,2-Trichloroethane	ND	5		ND	5
hloroethene	ND	5		ND	5
hlorofluoromethane	ND	5		ND	5
2,3-Trichloropropane	ND	5		ND	5
2,4-Trimethylbenzene	ND	5		ND	5
5-Trimethylbenzene	ND	5		ND	5
l acetate	ND	10		ND	10
nyl Chloride	ND	10		ND	10
lene	ND	5		ND	5
-Xylenes	ND	5		ND	5

Analytical Notes

Quality Control Data Summary

Surrogate Recovery Data

Compound	Spike Amount (ug/L)	Percent Recovery	QC Limits
oluene-d8	50	94	80-120
nofluorobenzene	50	92	81-117
omofluoromethane	50	118	74-121

Laboratory Control Sample, Matrix Spike/Matrix Spike Duplicate Data

Batch I.D.: 8758AID Sample I.D.: 212768-009

Compounds	Spike Amt. (ug/L)	LCS %Rec.	QC Limits	Spike %Rec.	Spk Dup %Rec.	QC Limits	RPD	QC Limits
1,1-Dichloroethene	25	88	80-120	85	87	61-145	2	14
Benzene	25	112	80-120	105	105	76-127	<1	11
Trichloroethene	25	88	80-120	87	86	71-120	1	14
Toluene	25	112	80-120	101	102	76-125	1	13
Chlorobenzene	25	108	80-120	107	104	75-130	3	13

APPENDIX C

GROUNDWATER PURGE AND SAMPLE FORMS

Groundwater Purge and Sample Form Date: 9/7/95 **Kennedy/Jenks Consultants**

PROJECT NAME: DAC

WELL NUMBER: WCC-15

PROJECT NUMBER: 94-4016.00

PERSONNEL: RAP

STATIC WATER LEVEL (FT): 67.06

MEASURING POINT DESCRIPTION: Top of Casing

WATER LEVEL MEASUREMENT METHOD: Elec. Probe

PURGE METHOD: Rect-Flow

TIME START PURGE: 0957

PURGE DEPTH (FT) 70 feet

TIME END PURGE: 1115

TIME SAMPLED: 1120

COMMENTS:

WELL VOLUME CALCULATION (FILL IN BEFORE PURGING)	TOTAL DEPTH (FT)	-	DEPTH TO WATER (FT)	=	WATER COLUMN (FT)	X	MULTIPLIER FOR CASING DIAMETER (IN) 2	4	6	=	CASING VOLUME (GAL)
	91		67		24		0.16	0.64	1.44		~~4.6~~ 11.52

TIME	~~1000~~	1045	1057			1105	1115	
VOLUME PURGED (GAL)	2	4	6			9	11	
PURGE RATE (GPM)								
TEMPERATURE (°F)	76.0	74.4	75.5			75.7	75.0	
pH	7.39	7.34	7.50			7.52	7.51	
SPECIFIC CONDUCTIVITY (micromhos/cm) (uncorrected)	1752	1753	1741			1734	1737	
DISSOLVED OXYGEN (mg/L)	—	—	—			—	—	
eH(MV)Pt-AgCl ref.	—	—	—			—	—	
TURBIDITY/COLOR	Brown	Brown	Brown			Brown	Brown	
ODOR	No	No	No			No	No	
DEPTH OF PURGE INTAKE (FT)								
DEPTH TO WATER DURING PURGE (FT)								
NUMBER OF CASING VOLUMES REMOVED								
DEWATERED?								

F-43.1 (5-89)

Groundwater Purge and Sample Form Date: 9/6/95 **Kennedy/Jenks Consultants**

PROJECT NAME: DAC WELL NUMBER: WCC-2S

PROJECT NUMBER: 944016 PERSONNEL: BAF

STATIC WATER LEVEL (FT): 67.85 MEASURING POINT DESCRIPTION: TOP of casing

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

TIME START PURGE: 1237 PURGE DEPTH (FT)

TIME END PURGE: 1248

TIME SAMPLED: 1300

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	=	3 X CASING VOLUME (GAL)
	88.80		67.85		20.95		0.16	0.64	1.44		40.2

TIME	1240	1242	1244	1246	1247	1248	
VOLUME PURGED (GAL)	10	20	30	40	45	50	
PURGE RATE (GPM)	5	5	5	5	5	5	
TEMPERATURE (~~°C~~) °F	77.0	75.4	75.3	75.5	75.6	75.5	
pH	7.54	7.46	7.51	7.42	7.43	7.44	
SPECIFIC CONDUCTIVITY (micromhos/cm) (uncorrected)	1178	1078	1030	1020	1012	1004	
DISSOLVED OXYGEN (mg/L)	—	—	—	—	—	—	
eH(MV)Pt-AgCl ref.	—	—	—	—	—	—	
TURBIDITY/COLOR	slight	brown	slight	slt/clear	clr	clear	
ODOR	N	N	N	N	N	N	
DEPTH OF PURGE INTAKE (FT)	75	75	75	75	75	75	
DEPTH TO WATER DURING PURGE (FT)							
NUMBER OF CASING VOLUMES REMOVED							
DEWATERED?							

F-431 (5-89)

Groundwater Purge and Sample Form Date: 9/7/95 **Kennedy/Jenks Consultants**

PROJECT NAME: DAC

WELL NUMBER: WCC-3S

PROJECT NUMBER: 944016 C20

PERSONNEL: RAD

STATIC WATER LEVEL (FT): 67.65

MEASURING POINT DESCRIPTION: Top of casing

WATER LEVEL MEASUREMENT METHOD: Elec. probe

PURGE METHOD: Redflow

TIME START PURGE: 1329

PURGE DEPTH (FT) 75

TIME END PURGE: 1339

TIME SAMPLED: 1350

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	=	3 X CASING VOLUME (GAL)
	92		67.65		24.35		0.16	0.64	1.44		47

TIME	1331	1333	1335	1337	1338	1339	
VOLUME PURGED (GAL)	10	20	30	40	45	50	
PURGE RATE (GPM)	5	5	5	5	5	5	
TEMPERATURE (°C)	78.2	77.9	77.8	77.6	78.0	77.5	
pH	6.39	6.41	6.39	6.44	6.45	6.45	
SPECIFIC CONDUCTIVITY (micromhos/cm) (uncorrected)	3360	3330	2980	2680	2590	2530	
DISSOLVED OXYGEN (mg/L)	—	—	—	—	—	—	
eH(MV)Pt-AgCl ref.	—	—	—	—	—	—	
TURBIDITY/COLOR	CLEAR	CLEAR	CLEAR	CLEAR	CLEAR	CLEAR	
ODOR	Y	Y	Y, slight	Y	Y	Y	
DEPTH OF PURGE INTAKE (FT)	75	75	75	75	75	75	
DEPTH TO WATER DURING PURGE (FT)							
NUMBER OF CASING VOLUMES REMOVED							
DEWATERED?							

F-43.1 (5-89)

Groundwater Purge and Sample Form Date: 9/7/95 **Kennedy/Jenks Consultants**

PROJECT NAME: DAC WELL NUMBER: WCC-4S

PROJECT NUMBER: WCC-4S 944016.00 PERSONNEL: RAP

STATIC WATER LEVEL (FT): 66.16 MEASURING POINT DESCRIPTION: Top of casing

WATER LEVEL MEASUREMENT METHOD: Elec. Probe PURGE METHOD: Redi flow

TIME START PURGE: 0920 PURGE DEPTH (FT) 75

TIME END PURGE: 0931

TIME SAMPLED: 0945

COMMENTS:

WELL VOLUME CALCULATION (FILL IN BEFORE PURGING)	TOTAL DEPTH (FT)	-	DEPTH TO WATER (FT)	=	WATER COLUMN (FT)	X	MULTIPLIER FOR CASING DIAMETER (IN) 2	4	6	=	3 X CASING VOLUME (GAL)
	91.5		66.16		25.34		0.16	0.64	1.44		49

TIME	0922	0924	0926	0928	0929	0931	
VOLUME PURGED (GAL)	10	20	30	40	45	50	
PURGE RATE (GPM)	5	5	5	5	5	5	
TEMPERATURE (°F)	73.9	74.2	74.3	74.1	74.2	74.2	
pH	7.53	7.31	7.32	7.28	7.30	7.27	
SPECIFIC CONDUCTIVITY (micromhos/cm) (uncorrected)	1635	1560	1501	1408	1374	1358	
DISSOLVED OXYGEN (mg/L)	–	–	–	–	–	–	
eH(MV)Pt-AgCl ref.	–	–	–	–	–	–	
TURBIDITY/COLOR	CLEAR/ YELLOW	CLEAR	CLEAR	CLEAR	CLEAR	CLEAR	
ODOR	NO	NO	NO	NO	NO	NO	
DEPTH OF PURGE INTAKE (FT)	75	75	75	75	75	75	
DEPTH TO WATER DURING PURGE (FT)							
NUMBER OF CASING VOLUMES REMOVED							
DEWATERED?							

F-43.1 (5-89)

Groundwater Purge and Sample Form Date: 9/6/95 **Kennedy/Jenks Consultants**

PROJECT NAME: DQ WELL NUMBER: WCC-5S

PROJECT NUMBER: 944016.00 PERSONNEL: RAP

STATIC WATER LEVEL (FT): 64.63 MEASURING POINT DESCRIPTION: Top of casing

WATER LEVEL MEASUREMENT METHOD: Elec. Probe PURGE METHOD: Redi-flow

TIME START PURGE: 908 PURGE DEPTH (FT) 75

TIME END PURGE: 919

TIME SAMPLED: 933

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	=	3 X CASING VOLUME (GAL)
	89.35		64.63		24.72		0.16	0.64	1.44		47

TIME	911	913	915	917	918	919	
VOLUME PURGED (GAL)	10	20	30	40	45	50	
PURGE RATE (GPM)	5	5	5	5	5	5	
TEMPERATURE (°C)	77.9	74.1	74.0	74.2	73.9	73.8	
pH	6.74	7.29	7.27	7.22	7.20	7.18	
SPECIFIC CONDUCTIVITY (micromhos/cm) (uncorrected)	1515	1430	1441	1455	1459	1464	
DISSOLVED OXYGEN (mg/L)	—	—	—	—	—	—	
eH(MV)Pt-AgCl ref.	—	—	—	—	—	—	
TURBIDITY/COLOR	slight	slight	slight	slight	slight	slight	
ODOR	N	N	N	N	N	N	
DEPTH OF PURGE INTAKE (FT)	75	75	75	75	75	75	
DEPTH TO WATER DURING PURGE (FT)							
NUMBER OF CASING VOLUMES REMOVED							
DEWATERED?							

F-43.1 (5-89)

Groundwater Purge and Sample Form Date: 9/7/95 **Kennedy/Jenks Consultants**

PROJECT NAME: DAC

WELL NUMBER: WCC-6S

PROJECT NUMBER: 944016.00

PERSONNEL: RAP

STATIC WATER LEVEL (FT): 67.59

MEASURING POINT DESCRIPTION: Top of casing

WATER LEVEL MEASUREMENT METHOD: Elec. Probe

PURGE METHOD: Redi-flow

TIME START PURGE: 1422

PURGE DEPTH (FT) 75

TIME END PURGE: 1432

TIME SAMPLED: 1445

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	=	3 X CASING VOLUME (GAL)
	91		67		24		0.16	0.64	1.44		46.08

TIME	1424	1426	1428	1430	1431	1432	
VOLUME PURGED (GAL)	10	20	30	40	45	50	
PURGE RATE (GPM)	5	5	5	5	5		
TEMPERATURE (°C)	78.0	77.8	78.0	77.7	77.5	77.1	
pH	6.80	6.76	6.78	6.84	6.79	6.78	
SPECIFIC CONDUCTIVITY (micromhos/cm) (uncorrected)	1931	1841	1772	1718	1684	1665	
DISSOLVED OXYGEN (mg/L)	—	—	—	—	—	—	
eH(MV)Pt-AgCl ref.	—	—	—	—	—	—	
TURBIDITY/COLOR	CLEAR	CLEAR	CLEAR	CLEAR	CLEAR	CLEAR	
ODOR	Y	Y	Y	Y	Y	Y	
DEPTH OF PURGE INTAKE (FT)	75	75	75	75	75	75	
DEPTH TO WATER DURING PURGE (FT)							
NUMBER OF CASING VOLUMES REMOVED							
DEWATERED?							

F-431 (5-89)

Groundwater Purge and Sample Form Date: 9/7/95 **Kennedy/Jenks Consultants**

PROJECT NAME: DAC

WELL NUMBER: WCC-75

PROJECT NUMBER: 94 4016 00

PERSONNEL: RAP

STATIC WATER LEVEL (FT): 65.20

MEASURING POINT DESCRIPTION: Top of casing

WATER LEVEL MEASUREMENT METHOD: Lice. probe

PURGE METHOD: Red. flow

TIME START PURGE: 747

PURGE DEPTH (FT) 75

TIME END PURGE: 0800

TIME SAMPLED: 0812

COMMENTS:

WELL VOLUME CALCULATION (FILL IN BEFORE PURGING)	TOTAL DEPTH (FT)	-	DEPTH TO WATER (FT)	=	WATER COLUMN (FT)	X	MULTIPLIER FOR CASING DIAMETER (IN) 2	4	6	=	CASING VOLUME (GAL)
	90.5		65.2		25.3		0.16	0.64	1.44		49

TIME	749	752	754	757	759	800	
VOLUME PURGED (GAL)	10	20	30	40	45	50	
PURGE RATE (GPM)	5	5	5	5	5		
TEMPERATURE (°F)	72.4	72.7	73.0	73.5	73.6	73.5	
pH	7.40	7.29	7.29	7.31	7.29	7.25	
SPECIFIC CONDUCTIVITY (micromhos/cm) (uncorrected)	1360	1256	1155	1098	1077	1064	
DISSOLVED OXYGEN (mg/L)	—	—	—	—	—	—	
eH(MV)Pt-AgCl ref.	—	—	—	—	—	—	
TURBIDITY/COLOR	CLEAR	CLEAR	CLEAR	CLEAR	CLEAR	CLEAR	
ODOR	N	N	N	N	N	N	
DEPTH OF PURGE INTAKE (FT)							
DEPTH TO WATER DURING PURGE (FT)							
NUMBER OF CASING VOLUMES REMOVED							
DEWATERED?							

F-43.1 (5-89)

Groundwater Purge and Sample Form Date: 9/7/95 **Kennedy/Jenks Consultants**

PROJECT NAME: DAC WELL NUMBER: WCC-85

PROJECT NUMBER: 944016.00 PERSONNEL: RAP

STATIC WATER LEVEL (FT): 67.83 MEASURING POINT DESCRIPTION: Top of Casing

WATER LEVEL MEASUREMENT METHOD: Elec. Probe PURGE METHOD: Redi-flow

TIME START PURGE: 0833 PURGE DEPTH (FT) 75

TIME END PURGE: 0843

TIME SAMPLED: 0855

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	=	3 X CASING VOLUME (GAL)
	90		67.83		22.17		0.16	0.64	1.44		43

TIME	0835	0837	0839	0841	0842	0843	
VOLUME PURGED (GAL)	10	20	30	40	45	50	
PURGE RATE (GPM)	5	5	5	5	5	5	
TEMPERATURE (°~~C~~F)	73.4	74.1	74.3	74.3	74.3	74.4	
pH	6.98	6.97	7.00	6.94	6.93	6.92	
SPECIFIC CONDUCTIVITY (micromhos/cm) (uncorrected)	1780	1770	1770	1767	1764	1764	
DISSOLVED OXYGEN (mg/L)	—	—	—	—	—	—	
eH(MV)Pt-AgCl ref.	—	—	—	—	—	—	
TURBIDITY/COLOR	clear	clear	clear	clear	clear	clear	
ODOR	No	No	No	No	No	No	
DEPTH OF PURGE INTAKE (FT)	75	75	75	75	75	75	
DEPTH TO WATER DURING PURGE (FT)							
NUMBER OF CASING VOLUMES REMOVED							
DEWATERED?							

Groundwater Purge and Sample Form Date: 9/6/95 **Kennedy/Jenks Consultants**

PROJECT NAME: DAC

WELL NUMBER: WCC-95

PROJECT NUMBER: ~~WCC-95~~ 944016.00

PERSONNEL: RAP

STATIC WATER LEVEL (FT): 63.68

MEASURING POINT DESCRIPTION: Top of Casing

WATER LEVEL MEASUREMENT METHOD: Elec. Probe

PURGE METHOD: Redi-flow

TIME START PURGE: 953

PURGE DEPTH (FT) 75

TIME END PURGE: 1004

TIME SAMPLED: 1016

COMMENTS:

WELL VOLUME CALCULATION (FILL IN BEFORE PURGING)	TOTAL DEPTH (FT)	-	DEPTH TO WATER (FT)	=	WATER COLUMN (FT)	X	MULTIPLIER FOR CASING DIAMETER (IN) 2	4	6	=	CASING VOLUME (GAL)
	89.20		63.68		25.52		0.16	0.64	1.44		49

TIME	955	957	959	1001	1002	1003	
VOLUME PURGED (GAL)	10	20	30	40	45	50	
PURGE RATE (GPM)	5	5	5	5	5	5	
TEMPERATURE (~~°C~~ °F)	75.1	76.1	75.0	75.4	75.1	74.9	
pH	7.26	7.44	7.40	7.36	7.34	7.31	
SPECIFIC CONDUCTIVITY (micromhos/cm) (uncorrected)	1507	1194	1152	1132	1125	1119	
DISSOLVED OXYGEN (mg/L)	—	—	—	—	—	—	
eH(MV)Pt-AgCl ref.	—	—	—	—	—	—	
TURBIDITY/COLOR	clear	clear	clear	clear	clear	clear	
ODOR	N	N	N	N	N	N	
DEPTH OF PURGE INTAKE (FT)	75	75	75	75	75	75	
DEPTH TO WATER DURING PURGE (FT)							
NUMBER OF CASING VOLUMES REMOVED							
DEWATERED?							

Groundwater Purge and Sample Form Date: 9/6/95 **Kennedy/Jenks Consultants**

PROJECT NAME: DAC

WELL NUMBER: UCC-105

PROJECT NUMBER: 944016.00

PERSONNEL: R.A.P.

STATIC WATER LEVEL (FT): 67.10

MEASURING POINT DESCRIPTION: Top of casing

WATER LEVEL MEASUREMENT METHOD: Elec.

PURGE METHOD: Redi-flow

TIME START PURGE: ~~[illegible]~~ 1149

PURGE DEPTH (FT)

TIME END PURGE: 1200

TIME SAMPLED: 1215

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	=	3 X CASING VOLUME (GAL)
	89.60		67.10		22.5		0.16	0.64	1.44		43.2

TIME	1151	1153	1155	1157	1158	1159	
VOLUME PURGED (GAL)	10	20	30	40	45	50	
PURGE RATE (GPM)	5	5	5	5	5	5	
TEMPERATURE (°C)	78.7	76.3	74.6	74.8	74.9	75.1	
pH	7.31	7.43	7.23	7.23	7.18	7.17	
SPECIFIC CONDUCTIVITY (micromhos/cm) (uncorrected)	972	954	951	949	950	952	
DISSOLVED OXYGEN (mg/L)	—	—	—	—	—	—	
eH(MV)Pt-AgCl ref.	—	—	—	—	—	—	
TURBIDITY/COLOR	Clear	Clear	Clear	Clear	Clear	Clear	
ODOR	N	N	N	N	N	N	
DEPTH OF PURGE INTAKE (FT)	75	75	75	75	75	75	
DEPTH TO WATER DURING PURGE (FT)							
NUMBER OF CASING VOLUMES REMOVED							
DEWATERED?							

F-431 (5-89)

Groundwater Purge and Sample Form Date: 9/6/95 **Kennedy/Jenks Consultants**

PROJECT NAME: DAC WELL NUMBER: WCC-113

PROJECT NUMBER: 944016.00 PERSONNEL: RAP

STATIC WATER LEVEL (FT): 65.66 MEASURING POINT DESCRIPTION: Top of casing

WATER LEVEL MEASUREMENT METHOD: Elec. probe PURGE METHOD: Rediflow

TIME START PURGE: 1326 PURGE DEPTH (FT)

TIME END PURGE: 1338

TIME SAMPLED: 1350

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	=	3 X CASING VOLUME (GAL)
	89.30		65.66		23.64		0.16	0.64	1.44		45

TIME	1329	1331	1334	1336	1337	1338	
VOLUME PURGED (GAL)	10	20	30	40	45	50	
PURGE RATE (GPM)	4	5	5	5	5	5	
TEMPERATURE (°C)	73.9	73.6	74.5	74.9	74.5	74.2	
pH	7.24	7.25	7.20	7.22	7.20	7.21	
SPECIFIC CONDUCTIVITY (micromhos/cm) (uncorrected)	1382	1366	1390	1370	1375	1370	
DISSOLVED OXYGEN (mg/L)	—	—	—	—	—	—	
eH(MV)Pt-AgCl ref.	—	—	—	—	—	—	
TURBIDITY/COLOR	slight	slight	clear	clear	clear	clear	
ODOR	N	N	N	N	N	N	
DEPTH OF PURGE INTAKE (FT)	75	75	75	75	75	75	
DEPTH TO WATER DURING PURGE (FT)							
NUMBER OF CASING VOLUMES REMOVED							
DEWATERED?							

Groundwater Purge and Sample Form Date: 9/6/95 **Kennedy/Jenks Consultants**

PROJECT NAME: DAC WELL NUMBER: WCC-12S

PROJECT NUMBER: 944016.00 PERSONNEL: RAP

STATIC WATER LEVEL (FT): 63.78 MEASURING POINT DESCRIPTION: Top of casing

WATER LEVEL MEASUREMENT METHOD: Elec. Probe PURGE METHOD: Rem-Flow

TIME START PURGE: 1416 PURGE DEPTH (FT) 75'

TIME END PURGE: 1426

TIME SAMPLED: 1429

COMMENTS:

WELL VOLUME CALCULATION (FILL IN BEFORE PURGING)	TOTAL DEPTH (FT)	-	DEPTH TO WATER (FT)	=	WATER COLUMN (FT)	X	MULTIPLIER FOR CASING DIAMETER (IN) 2	4	6	=	CASING VOLUME (GAL)
	90.25		63.78		26.47		0.16	0.64	1.44		51

TIME	1418	1420	1422	1424	1425	1426	
VOLUME PURGED (GAL)	10	20	30	40	45	50	
PURGE RATE (GPM)	5	5	5	5	5	5	
TEMPERATURE (~~°C~~ °F)	75.0	75.6	75.7	75.7	75.6	75.5	
pH	7.63	7.44	7.39	7.34	7.36	7.31	
SPECIFIC CONDUCTIVITY (micromhos/cm) (uncorrected)	1257	1183	1168	1159	1169	1166	
DISSOLVED OXYGEN (mg/L)	—	—	—	—	—	—	
eH(MV)Pt-AgCl ref.	—	—	—	—	—	—	
TURBIDITY/COLOR	slt. brown	slt brown	slt brown	slt brown	slt/clear	slight/clear	
ODOR	N	N	N	N	N	N	
DEPTH OF PURGE INTAKE (FT)	75	75	75	75	75	75	
DEPTH TO WATER DURING PURGE (FT)							
NUMBER OF CASING VOLUMES REMOVED							
DEWATERED?							

F-431 (5-89)

Groundwater Purge and Sample Form Date: 9/7/95 **Kennedy/Jenks Consultants**

PROJECT NAME: DAC WELL NUMBER: DACP-1

PROJECT NUMBER: 944016.00 PERSONNEL: RAP

STATIC WATER LEVEL (FT): 68.20 MEASURING POINT DESCRIPTION: Top of casing

WATER LEVEL MEASUREMENT METHOD: Elec Probe PURGE METHOD: Redi flow

TIME START PURGE: 1508 PURGE DEPTH (FT)

TIME END PURGE: 1519

TIME SAMPLED: 1530

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	=	3 X CASING VOLUME (GAL)
	90		68		22		0.16	0.64	1.44		42

TIME	1510	1512	1514	1516	1517	1519	
VOLUME PURGED (GAL)	10	20	30	40	45	50	
PURGE RATE (GPM)	5	5	5	5	5	5	
TEMPERATURE (°C)	78.0	76.5	75.8	75.0	75.1	74.9	
pH	7.23	7.21	7.09	7.11	7.06	7.12	
SPECIFIC CONDUCTIVITY (micromhos/cm) (uncorrected)	2450	2280	2330	2320	2310	2300	
DISSOLVED OXYGEN (mg/L)	—	—	—	—	—	—	
eH(MV)Pt-AgCl ref.	—	—	—	—	—	—	
TURBIDITY/COLOR	Some silts	CLEAR	CLEAR	CLEAR	CLEAR	CLEAR	
ODOR	N	N	N	N	N	N	
DEPTH OF PURGE INTAKE (FT)	75	75	75	75	75	75	
DEPTH TO WATER DURING PURGE (FT)							
NUMBER OF CASING VOLUMES REMOVED							
DEWATERED?							

Groundwater Purge and Sample Form Date: 9/6/95 **Kennedy/Jenks Consultants**

PROJECT NAME: DAC

WELL NUMBER: WCC-1D

PROJECT NUMBER: 944016.00

PERSONNEL: RAP

STATIC WATER LEVEL (FT): 67.15

MEASURING POINT DESCRIPTION: Top of Casing

WATER LEVEL MEASUREMENT METHOD: ELEC. PROBE

PURGE METHOD: Bail/Flow

TIME START PURGE: 1037

PURGE DEPTH (FT) 90

TIME END PURGE: 1112

TIME SAMPLED: 1135

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	=	3 X CASING VOLUME (GAL)
	135.50		67.15				0.16	0.64	1.44		131

TIME	1039	1055	1104	1106	1108	1110	1112
VOLUME PURGED (GAL)	10	50	100	110	120	130	140
PURGE RATE (GPM)	5	4	5	5	5	5	5
TEMPERATURE (°C)	79.5	75.7	75.6	75.3	74.9	74.8	74.6
pH	7.55	7.82	7.80	7.65	7.70	7.69	7.69
SPECIFIC CONDUCTIVITY (micromhos/cm) (uncorrected)	759	748	726	723	719	716	715
DISSOLVED OXYGEN (mg/L)	—	—	—	—	—	—	—
eH(MV)Pt-AgCl ref.	—	—	—	—	—	—	—
TURBIDITY/COLOR	clear	clear	clear	clear	clear	clear	clear
ODOR	N	N	N	N	N	N	N
DEPTH OF PURGE INTAKE (FT)	90	90	90	90	90	90	90
DEPTH TO WATER DURING PURGE (FT)							
NUMBER OF CASING VOLUMES REMOVED							
DEWATERED?							

F-431 (5-89)

Groundwater Purge and Sample Form Date: 9/7/95 **Kennedy/Jenks Consultants**

PROJECT NAME: DAC WELL NUMBER: WCC-3D

PROJECT NUMBER: 944016.00 PERSONNEL: RAP

STATIC WATER LEVEL (FT): 67.74 MEASURING POINT DESCRIPTION: Top of casing

WATER LEVEL MEASUREMENT METHOD: Elec. probe PURGE METHOD: Redi Flow

TIME START PURGE: 1207 PURGE DEPTH (FT) 120

TIME END PURGE: 1239

TIME SAMPLED: 1255

COMMENTS:

WELL VOLUME CALCULATION (FILL IN BEFORE PURGING)	TOTAL DEPTH (FT)	-	DEPTH TO WATER (FT)	=	WATER COLUMN (FT)	X	MULTIPLIER FOR CASING DIAMETER (IN) 2	4	6	=	3 X CASING VOLUME (GAL)
	140		67.74		72.26		0.16	0.64	1.44		139

TIME	1209	1223	1233	1235	1237	1239	
VOLUME PURGED (GAL)	10	60	110	120	130	140	
PURGE RATE (GPM)	5	5	5	5	5	5	
TEMPERATURE (°C)	75.7	75.9	75.1	75.0	74.7	74.5	
pH	7.72 ~~7.55~~	7.76	7.54	7.54	7.59	7.61	
SPECIFIC CONDUCTIVITY (micromhos/cm) (uncorrected)	755	740	728	726	724	725	
DISSOLVED OXYGEN (mg/L)	—	—	—	—	—	—	
eH(MV)Pt-AgCl ref.	—	—	—	—	—	—	
TURBIDITY/COLOR	CLEAR	CLEAR	CLEAR	CLEAR	CLEAR	CLEAR	
ODOR	Y	Y	N	N	N	N	
DEPTH OF PURGE INTAKE (FT)	120	120	120	120	120	120	
DEPTH TO WATER DURING PURGE (FT)							
NUMBER OF CASING VOLUMES REMOVED							
DEWATERED?							

WATER LEVEL DATA SHEET

Well No.	Date Mo/Day/Yr	Time	Well Elevation	Depth To Water	Water Elevation	Initials	Comments
WCC-10S	9/6/95	0800		67.10		RAP	
DAC-P1		0805		68.20		RAP	
WCC-2S		0820		67.85		RAP	
WCC-5S		0831		64.63		RAP	
WCC-9S		0835		63.68		RAP	
WCC-12S		0839		63.78		RAP	
WCC-7S		0842		65.20		RAP	
WCC-4S		0844		66.16		RAP	
WCC-1D		0847		67.15		RAP	
WCC-1S		0849		67.06		RAP	
WCC-8S		0852		67.83		RAP	
WCC-11S		0854		65.66		RAP	
WCC-3S		0857		67.65		RAP	
WCC-3D		0900		67.74		RAP	
WCC-6S		0906		67.59		RAP	

Job No. 944016.01 Facility DAC

WATER LEVEL DATA SHEET

Well No.	Date Mo/Day/Yr	Time	Well Elevation	Depth To Water	Water Elevation	Initials	Comments
WCC-5S	9/20/95	1145		64.57	-16.35	KKP	
WCC-9S		1155		63.65	-16.64	KKP	
WCC-12S		1205		63.71	-16.79	KKP	
WCC-2S		1225		66.78	-16.19	KKP	
WCC-7S		1245		65.11	-16.82	KKP	
WCC-11S		1255		65.56	-15.59	KKP	
WCC-4S		1305		66.07	-16.38	KKP	
WCC-8S		1310		66.72	-16.16	KKP	
WCC-1S		1320		66.97	-16.27	KKP	
WCC-1D		1327		67.05	-16.60	KKP	
WCC-3S		1335		67.56	-16.36	KKP	
WCC-3D		1340		67.65	~~-16.75~~ -16.47 KP	KKP	
WCC-6S		CAN'T OPEN				KKP	
WCC-10S		1405		67.01	-15.89	KKP	
DAC-P1		1415		68.10	-15.66	KKP	

Job No. 944016.01 Facility DAC

APPENDIX D

CHAIN-OF-CUSTODY RECORDS

Client KENNEDY / JENKS

Project Name DAC

Project Address 17310 REDHILL AVE

IRVINE 92714

Project Contact (please print) RICK PASTORE

Date 6 SEP 95

Client Reference # 944016.00

Turn Around Requested:

- [ ] Immediate Attention
- [ ] Rush 24-48 Hours
- [ ] Rush 48-96 Hours
- [x] Normal
- [ ] Mobile Lab

Analysis Requested
All analyses and deliverables must be identified
(see section 4.8 & 4.9 on reverse)

Page 1 of 1

Lab Use Only

Lab Job # _____
C.O. # _____
C.O. # _____
C.O. # _____
C.O. # _____

Sample Condition Upon Receipt:
Chilled [ ] yes [ ] no
Sealed [ ] yes [ ] no

Sample ID	Sample Location	Date	Time	Physical State: Solid (S), Liquid (L), Vapor (V)	EPA 8240/8260							Number of Containers	Container/Comments	Lab Sample Number
WCC5S-12		9/6/95	0931	L	X							3		
WCC9S-12		9/6/95	1016	L	X									
WCC1D-12		9/6/95	1135	L	X									
WCC10S-12		9/6/95	1215	L	X									
WCC2S-12		9/6/95	1300	L	X									
WCC11S-12		9/6/95	1350	L	X									
WCC12S-12		9/6/95	1410	L	X									
DW090695		9/6/95	—	L	X									

Total Number of Containers

❶ Relinquished by (signature)	❷ Received by (signature)	Date 9-6-95	
Company KENNEDY / JENKS	Company	Time	
❸ Relinquished by (signature)	❹ Received by Laboratory (signature)	Date	
Company	Laboratory Name	Time	

Special Instructions

*See Terms And Conditions (section 2) on reverse **before** signing

TERRA TECH LABS

Corporate Office
1920 E. Deere Ave.
Santa Ana, CA 92705
Tel 714.757.7022 800.377.2322
Fax 714.757.7274

Arizona Office
3902 E. University Drive, Suite 4
Phoenix, Arizona 85034
Tel 602.437.9367 Fax 602.437.9362

BOE-C6-0137671

[illegible] & [illegible], [illegible]
2495 Da Vinci, Irvine, CA 92714 Phone (714)252-9700 Fax (714)252-9701

CHAIN OF CUSTODY RECORD

LAB#

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
WCC75-12		9/7/95	0812	LIQ	VOA	3																		X
WCC85-12			0855																					X
WCC45-12			0945																					X
WCC15-12			1120																					X
WCC3D-12			1255																					X
WCC35-12			1350																					X
WCC65-12			1445																					X
~~[illegible]~~																								
DACP1-12			1530																					X
EB090795			—																					X
TB090795			—																					X
DW090795			—																					X

Relinquished By: (Signature)	Date/Time	Received By: (Signature)	Date/Time
R A Pastore	1/7/95 17:55	David Allen	1/7/95 17:55
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: RICK PASTORE

COMPANY: Cal [illegible]

ADDRESS:

CITY: IRVINE STATE: ZIP CODE:

PHONE NUMBER: 261-2577 FAX NUMBER: 261-2134

PROJECT MANAGER: SARAH BARTLING

CLIENT JOB I.D.: 94401600

CLIENT P.O. NO.: C&T QUOTE NO.:

SAMPLING LOCATION: DAC

COLLECTOR: R PASTORE

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

Form # COC0293

BOE-C6-0137672