GROUNDWATER MONITORING DATA SUMMARY REPORT FOURTH QUARTER 1995

DOUGLAS AIRCRAFT COMPANY C-6 FACILITY
TORRANCE, CALIFORNIA

K/J 944016.01

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Kennedy/Jenks Consultants

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FOURTH QUARTER, 1995

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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 week of 11 December 1995, Fourth Quarter 1995.

2.0 QUARTERLY MONITORING PROGRAM

Fourth Quarter 1995 groundwater sampling was performed in accordance with standard sampling procedures. Static water level depths were measured on 12 December 1995 prior to initiating purging of groundwater from any observation. Static water depths on monitoring wells (MW-9, MW-18 and MW-19) located in the southern portion of the DAC property installed for the Montrose Chemical Corporation Remedial Investigation were not measured for this quarter.

Groundwater samples were collected from the following fifteen wells (Figure 2) and chemically analyzed for volatile organic compounds (VOCs) by EPA Method 8240/8260 for the Fourth 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 Fourth Quarter are presented in Figure 4. Historical chemical concentration profiles for the indicator chemicals trichloroethene and 1,1-dichloroethene are shown in Figure 5. Copies of laboratory data sheets, laboratory/field Quality Control data sheets, groundwater purge and sample forms, and Chain-of-Custody records are included in Appendices A, B, C, and D respectively.

2.1 Groundwater Sampling Procedures

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

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

2.2 Field QA/QC Procedures

Duplicate groundwater samples were collected for the sampling round on 15 December 1995 for quality control purposes. The duplicate was collected in three HCl-preserved vials and identified by inserting the collection date after "DW-" (DW-121595). No further sample identification was provided to the laboratory. Sample DW-121595 was taken from observation well WCC-1S.

Following decontamination of the submersible pump, and prior to collection of groundwater samples from the successive well, an equipment rinsate blank was prepared for laboratory analysis. The equipment rinsate blank was prepared by pouring Reagent Grade II water, prepared by the analytical laboratory, over the pump and collecting the rinsate in two 40-ml vials preserved with HCl. The blanks were identified following a similar protocol to that used for duplicate water samples and are identified as "EB121595" and "RB121695". The wells sampled before and after rinsate blank preparation were recorded. EB121595 and RB121695 were collected after sampling wells WCC-1S and DAC P-1, the last wells sampled on those days. Trip blanks were also analyzed for sampling and shipping activities on 15 and 16 December and are identified as TB-121595 and TB-121695.

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 12 December 1995 (Table 4 and Appendix C). The shallow zone groundwater elevations measured for this quarter ranged from 15.35 feet below mean sea level (MSL) to 16.59 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) was approximately 16.31 and 16.17 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 20,000 micrograms per liter (µg/L) coming onto DAC's property. This test result is within the historical range. Other chemicals detected in well DAC-P1 include 1,1-DCE, 1,1-DCA, 1,1,1-TCA, cis- and trans-1,2-DCE, chloroform and toluene. The concentrations of these chemicals were within historical ranges though low level detections of 1,1-DCA , 1,1,1-TCA, and trans-1,2-DCE have not been reported for this well in several years. Future monitoring will provide data to assess the changes in chemical compounds observed this quarter. DAC-P1 is screened in the shallow zone.

- Background concentrations of TCE and 1,1-DCE in the shallow zone upgradient or cross gradient wells WCC-10S, WCC-2S, and WCC-11S decreased slightly, but are within historical ranges at concentrations of 60 to 210 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 generally in a southerly to southeasterly direction in the vicinity of buildings 36 and 41. Most chemical concentration data from the eastern boundary observation wells (WCC-5S, and WCC-9S) are within the same range or lower than upgradient or cross gradient "background level" wells (WCC-10S, WCC-2S and WCC-11S).

- WCC-3S data continue to show decreases in 1,1-DCE and toluene, but concentrations are still within historical ranges.

- Increases of 1,1-DCE, 1,1,1-TCA, and toluene concentrations were observed for well DAC-P1.

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

- WCC-6S data, which showed significant decreases in 1,1-DCE, 1,1,1-TCA, MIBK, cis-1,2-DCE, and toluene in the previous sampling event, show an increase in concentrations to historical ranges.

- Concentrations of 1,1-DCE and TCE in wells WCC-1S and WCC-8S, which showed decreases in the previous sample event, show an increase to more recent historical ranges.

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

- Analytical data from the equipment rinsate blanks, sample duplicates, trip blanks, and laboratory spikes and duplicates are indicative of reliable data. A detection of 1,1-DCE in the rinsate blank from 15 December was reported at the detection limit of 2 μg/L and is not considered to have potential to impact later samples or to be problematic at such low concentrations.

  Due to laboratory overload, the Fourth Quarter sample analysis was subcontracted by Curtis & Tompkins Laboratory to Calscience Laboratory in Garden Grove. The subcontract laboratory did not test samples for keytones and several reported values have been flagged as estimated values by Curtis & Tompkins Laboratory. Absence of these data for this quarter have a relatively insignificant impact on the eight year historical record of monitoring data at the C-6 facility. These compounds will be reported in subsequent quarterly monitoring events.

TABLES

TABLE 1
OBSERVATION WELL CONSTRUCTION DETAILS
GROUNDWATER MONITORING DATA SUMMARY REPORT
FOURTH 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
FOURTH 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
	12/15/95*	2,900/2,800	26/26	22/22	2,600/2,500	nr	34/33	40/40	17/16	42/42	<2/<2	nr
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
	12/15/95	15	<2	<2	60	nr	<2	<2	<2	<2	<2	nr

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

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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	21,000/22,00	8,800/8,800	44,000/45,000	650/640	640/670	120/110	240/260	42,000/42,000	<50/<50
	06/08/93	16,000	420	5,900	8,600	79,000	520	480	<100	210	37,000	<2,000
	*08/25/93	21,000/20,000	500/560	10,000/9,500	11,000/9,700	50,000/49,000	670/700	680/710	<400/<10	<400/250	46,000/40,000	<8,000/660
	11/19/93	26,000	690	19,000	10,000	47,000	1,100	840	<200	280	50,000	<4,000
	2/24/94	15,000	310	9,600	2,500	15,000	2,500	360	<200	<200	25,000	<4,000
	6/13/94	13,000	310	6,200	820	9,900	4,100	360	<200	<200	23,000	<4000
	*9/9/94	23,000/25,000	520/560	9,000/9,800	<500/<500	6,000/5,000	7,700/8,400	600/640	<500/<500	<500/<500	43,000/47,000	<10000/<1000
	12/22/94	20,000	440	6,700	390	3,400	6,700	530	<200	200	35,000	<4,000
	3/14/95	24,000	570	8,700	2,300	4,600	6,200	670	<200	230	40,000	<4,000
	6/13/95	22,000	450	4,800	1,200	6,600	6,300	500	<400	<400	39,000	<8000
	9/7/95	13,000	480	4,100	910	4,600	6,000	520	76	220	31,000	<200
	12/16/95	12,000	350	3,100	670	nr	4,400	400	45	130	**23000	nr
WCC-4S	11/02/87	360	-	14	700	-	-	2	2	-	-	-
	11/12/87	1,200	-	35	690	-	-	-	-	-	-	-
	7/13/89	170	<3	11	270	-	10	<3	<3	<3	<3	-
	08/23/89	360	<5	7	410	<20	15	<5	<5	<5	<5	-
	11/18/91	1,000		20	2,200	<30	-	-	-	-	-	-
	06/17/92	920	<25	<25	1,500	<50	<25	<25	<25	<25	<25	<50
	09/23/92	1,400	<10	20	1,900	<50	<10	<10	10	<10	<10	<50
	12/08/92	1,000	<10	20	1,600	<50	10	<10	10	<10	<10	<50
	03/17/93	810	8	14	1,200	<5	8	5	5	6	<2	<10
	06/08/93	1,300	<10	12	1,800	<100	10	<10	<10	<10	<10	<200
	08/25/93	1,100	<10	<10	1,400	<100	<10	<10	<10	<10	<10	<200
	11/19/93	610	17	8	700	<40	6	5	<4	4	9	<80
	2/24/94	1,100	5.8	8.8	980	<40	8.7	7.2	5.1	6.4	<4	<80
	6/14/94	800	<4	5	940	<40	7.1	5.2	<4	<4	<4	<80
	9/9/94	1,000	<20	<20	1,300	<200	<20	<20	<20	<20	<20	<400
	12/22/94	670	<10	<10	750	<100	<10	<10	<10	<10	<10	<200
	3/14/95	400	9.8	4.9	450	<40	4.9	<4	<4	<4	<4	<80
	6/13/95	1,100	8.6	<6.6	1,100	<66	7.9	<6.6	<6.6	7	<6.6	<130
	9/7/95	910	8	6	1,200	<10	10	9	7	13	<5	<10
	12/15/95	1,100	4	<2	1,200	nr	8	7	4	2	<2	nr

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

TABLE 2
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FOURTH 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
	12/12/95	15	<2	<2	3	nr	<2	<2	<2	<2	<2	nr
WCC-6S	10/06/89	210	4	130	140	<5	12	7	<1	<1	<1	-
	11/16/91	5,800		5,000		17,000	-	-	-	-	35,000	21,000
	06/17/92	5,400	<500	2,100	3,000	7,600	<500	<500	<500	<500	15,000	6,300
	09/23/92	5,900	94	1,300	3,100	7,500	200	170	20	67	10,000	3,600
	*12/09/92	3,700/5,600	80/<100	680/1,400	2,700/3,200	3,400/<500	200/200	100/200	<50/<100	80/<100	5,000/10,000	3,000/5,000
	03/17/93	3,200	50	1,200	1,400	3,900/<500	<10	80	15	40	10,000	3,800
	06/08/93	5,500	<100	1,900	2,100	13,000	260	120	<100	<100	21,000	7,800
	08/25/93	5,400	<100	2,100	1,900	11,000	630	130	<100	<100	19,000	7,600
	11/19/93	2,200	42	440	670	4,700	480		<10	24	4,900	3,100
	2/24/94	11,000	91	2,200	1,800	13,000	1,400	140	21	52	20,000	4,400
	*6/13/94	5,800/6,300	87/<100	1,900/1,500	1,400/1,300	4,400/5,200	1,600/1,400	130/100	18/<100	52/<100	12,000/<13,000	1,400/<2,000
	9/9/94	Not sampled; well head obstructed										
	12/22/94	9,100	<200	1,300	1,900	4,800	2,500	<200	<200	<200	16,000	<4,000
	3/14/95	3,000	38	200	930	390	850	60	<20	25	2,300	<400
	6/13/95	9,800	130	810	510	450	4,200	180	28	82	8,400	<400
	*9/7/95	4,300/3,800	55/70	370/310	620/520	240/180	2,400/2,200	83/99	14/19	50/56	2,900/2,500	12/11
	12/16/95	11,000	120	1,400	2,000	nr	2,600	160	28	66	4,900	nr

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

TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL DATA - MAJOR CONSTITUENTS
GROUNDWATER MONITORING DATA SUMMARY REPORT
FOURTH 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
	12/15/95	98	<2	<2	140	nr	<2	<2	<2	<2	<2	nr
WCC-8S	07/13/89	430	<5	160	240	<30	7	9	<5	<5	<5	-
	08/23/89	820	<5	130	430	<30	7	<5	<5	<5	<5	-
	11/15/91	2,600	-	400	3,000	-	40	40	25	-	120	-
	*06/17/92	2,200/2,300	<25/<50	180/180	2,400/2,600	<50/<100	<25/<50	<25/<50	<25/<50	<25/<50	<25/<50	<50/<100
	09/23/92	2,800	<20	200	3,100	<100	<20	20	20	<20	<20	<100
	12/08/92	2,000	<20	100	2,500	<100	20	30	20	20	<20	<100
	03/17/93	1,800	11	180	1,500	<5	15	26	10	15	<2	<10
	06/08/93	3,000	<20	300	2,000	<200	<20	40	<20	<20	<20	<400
	08/25/93	3,100	<20	330	2,200	<200	<20	45	<20	<20	<20	<400
	11/19/93	3,300	<20	330	2,000	<200	<20	50	<20	24	<20	<400
	2/24/94	3,400	<20	300	1,200	<200	<20	35	<20	<20	<20	<400
	6/13/94	4,000	<40	290	2,200	<400	<40	44	<40	<40	<40	<800
	9/9/94	4,600	<50	280	3,100	<500	<50	<50	<50	<50	<50	<1000
	12/22/94	4,000	<20	230	2,100	<200	<20	43	<20	25	<20	<400
	3/14/95	4,500	<40	220	2,600	<400	<40	41	<40	<40	<40	<800
	6/13/95	4,200	<40	150	2,400	<400	<40	<40	<40	<40	<40	<800
	9/7/95	2,200	10	110	1,700	<10	15	28	9	22	<5	<10
	12/15/95	4,200	16	120	2,300	nr	18	40	<2	10	<2	nr

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

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FOURTH 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
	12/12/95	4	<2	<2	18	nr	3	<2	4	<2	<2	nr
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
	12/16/95	23	<2	<2	135	nr	<2	<2	4	<2	<2	nr

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

TABLE 2
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GROUNDWATER MONITORING DATA SUMMARY REPORT
FOURTH 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
	12/15/95	34	<2	<2	210	nr	5	<2	<2	<2	<2	nr
WCC-12S	11/18/91	300	-	17	900	-	-	-	-	-	-	-
	*06/16/92	250/260	<5/5	<5/<5	660/710	<10/<10	<5/<5	<5/<5	<5/<5	<5/<5	<5/<5	<10/10
	09/22/92	130	7	1	500	<5	3	<1	3	<1	<1	<5
	12/08/92	160	<5	<5	550	<30	5	<5	<5	<5	<5	<30
	03/17/93	100	7	<2	410	<5	4	8	3	<2	<2	<10
	06/07/93	130	2	<2	370	<20	5	<2	<2	<2	<2	<40
	08/25/93	100	<4	<4	390	<40	<4	<4	<4	<4	9	<80
	11/19/93	45	9	<2	220	<20	<2	<2	<2	<2	<2	<40
	2/24/94	89/77	7.7/3.9	<2/<2	270/220	<20/<20	2.9/3.3	<2/<2	<2/<2	<2/<2	<2/<2	<40/<40
	6/13/94	84	15	<2	270	<20	2.6	<2	2	<2	<2	<40
	9/9/94	97	<2	<2	160	<20	<2	<2	<2	<2	<2	<40
	12/22/94	52	17	<2	190	<20	2.1	<2	<2	<2	<2	<40
	3/14/95	53	18	<2	230	<20	<2	<2	2.9	<2	<2	<40
	6/12/95	72	28	<2	330	<20	<2	<2	3.2	<2	<2	<40
	9/6/95	60	32	<5	300	<10	<5	<5	<5	<5	<5	<10
	12/15/95	44	10	<2	140	nr	3	<2	2	<2	<2	nr

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FOURTH 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
	12/16/95	120	2	38	20,000	nr	130	5	45	5	680	nr
WCC-1D	07/25/89	<1	<1	<1	2	<5	1	<1	<1	<1	1	-
	08/23/89	<1	<1	1	2	<5	<1	<1	<1	<1	<1	-
	11/15/91	90	-	8	40	-	-	-	-	-	20	-
	*06/15/92	1,500/1,300	<25/<25	63/64	230/210	<50/<65	<25/<25	<25/<25	<25/<25	<25/<25	<25/<25	<50/<50
	09/22/92	180	<1	8	44	<5	2	<1	<1	<1	<1	<5
	*12/07/92	160/150	<1/<1	8/160	41/6	<5/<5	2/<1	<1/<1	1/1	<1/<1	<1/3	<5/<5
	03/16/93	200	<2	19	23	<5	3	<2	<2	<2	<2	<10
	*06/08/93	500/480	<10/<4	14/17	71/72	<100/<40	<10/<4	<10/<4	<10/<4	<10/<4	<10/<4	<200/<80
	08/24/93	540	<2	16	67	<20	3	2	<2	<2	2	<40
	11/18/93	880	<2	16	110	<20	3	3	<2	<2	<2	<40
	2/23/94	140	<2	3	14	<20	<2	<2	<2	<2	<2	<40
	6/10/94	230	<2	3.7	24	<20	<2	<2	<2	<2	<2	<40
	9/8/94	210	<2	3.6	37	<20	<2	<2	<2	<2	<2	<40
	12/22/94	600	<2	10	71	<20	2.3	2.2	<2	<2	2.2	<40
	3/13/95	240	<4	<4	38	<40	<4	<4	<4	<4	<4	<80
	6/13/95	170	<2	<2	21	<20	2	<2	<2	<2	<2	<40
	9/6/95	150	<5	<5	29	<10	<5	<5	<5	<5	<5	<10
	12/16/95	12	<2	<2	23	nr	3	<2	<2	<2	<2	nr

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

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TORRANCE, CA

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

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

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

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

TABLE 3
SUMMARY OF GROUNDWATER ANALYTICAL DATA - MINOR CONSTITUENTS
GROUNDWATER MONITORING DATA SUMMARY REPORT
FOURTH 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
	*12/15/95	<2/<2	<4/<4	<2/<2	<2/<2	<2/<2	<2/<2	<2/<2	<2/<2	<2/<2	<2/<2

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
FOURTH 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
	12/15/95	<2	<4	<2	<2	<2	<2	<2	<2	<2	<2
WCC-3S	11/02/87	-	-	-	-	-	-	-	-	-	-
	11/12/87	-	-	-	-	-	-	-	-	-	-
	07/13/89	-	-	-	-	-	-	-	-	-	-
	08/23/89	-	-	-	-	-	-	-	-	-	-
	11/14/91	-	-	-	-	-	-	-	-	-	-
	06/17/92	<30,000	-	-	-	-	-	-	-	-	-
	09/23/92	<3,000	<500	<500	900	<500	<500	<500	<500	<500	<500
	12/09/92	<3,000	<500	<500	<500	<500	<500	<500	<500	<500	<500
	*03/18/93	<50/<50	120/110	<25/<25	<50/<50	<25/<25	55/60	<10/<10	<25/<25	<10/<10	100/95
	06/08/93	<2,000	<100	<100	<200	<100	<200	<100	<100	<100	<100
	*08/25/93	<8,000/<200	<400/154	<400/<10	<800/<50	<400/<10	<800/52	<400/<10	<400/<10	<400/21	<400/86
	11/19/93	<4,000	<200	<200	<1,000	<200	<200	<200	<200	<200	<200
	2/24/94	<4,000	<200	<200	<1,000	<200	<400	<200	<200	<200	<200
	6/13/94	<4000	<600	<200	<1000	<200	<400	<200	<200	<200	<200
	*9/9/94	<10000/<1000	<1500/1500	<500/<500	<2500/<2500	<500/<500	<1000/<1000	<500/<500	<500/<500	<500/<500	<500/<500
	12/22/94	<4,000	<400	<200	<1,000	<200	<400	<200	<200	<200	<200
	3/14/95	<4,000	<400	<200	<1,000	<200	<400	<200	<200	<200	<200
	6/13/95	<8,000	<400	<400	<2,000	<400	<800	<400	<400	<400	<400
	9/7/95	39	137	<5	23	<5	64	<5	<5	18	99
	12/16/95	<2	42	<2	<2	<2	22	<2	<2	8	41

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
FOURTH 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
	12/15/95	<2	<4	<2	<2	<2	<2	<2	<2	<2	<2
WCC-5S	11/30/87	-	-	-	-	-	-	-	-	-	-
	01/08/88	-	-	-	-	-	-	-	-	-	-
	*07/13/89	-	-	-	-	-	-	-	-	-	-
	08/23/89	-	-	-	-	-	-	-	-	-	-
	11/19/91	-	-	-	-	-	-	-	-	-	-
	06/15/92	<10	-	-	-	-	-	-	-	-	-
	09/21/92	<5	<1	3	8	<1	<1	<1	<1	<1	<1
	12/07/92	<5	<1	<1	3	<1	<1	<1	<1	<1	<1
	03/16/93	<10	<2	<5	<10	<5	<2	<2	<5	<2	<2
	06/07/93	<40	<2	<2	<4	<2	<2	<4	<2	<2	<2
	08/24/93	<40	<2	<2	<4	<2	<4	<2	<2	<2	<2
	11/18/93	<40	<2	<2	<10	<2	<4	<2	<2	<2	<2
	2/23/94	<40	<2	<2	<10	<2	<4	<2	4	<2	<2
	*6/10/94	<40/<40	<6/<6	<2/<2	<20/<20	<2/<2	<4/<4	<2/<2	<2/<2	<2/<2	<2/<2
	9/8/94	<40	<6	<2	<10	<2	<4	<2	<2	<2	<2
	12/21/94	<40	<4	<2	<10	<2	<4	<2	<2	<2	<2
	3/13/95	<40	<4	<2	<10	<2	<4	<2	<2	<2	<2
	6/12/95	<40	<2	<2	<10	<2	<4	<2	2.2	<2	<2
	9/6/95	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5
	12/12/95	<2	<4	<2	<2	<2	<2	<2	<2	<2	<2

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
FOURTH 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
	12/16/95	<2	28	<2	<2	<2	76	<2	<2	5	41
WCC-7S	07/13/89	-	-	-	-	-	-	-	-	-	-
	08/23/89	-	-	-	-	-	-	-	-	-	-
	11/18/91	-	-	-	-	-	-	-	-	-	-
	06/17/92	<30	-	-	-	-	-	-	-	-	-
	09/23/92	<30	<5	<5	10	<5	<5	<5	<5	<5	<5
	12/08/92	<30	<5	<5	10	<5	<5	<5	<5	<5	<5
	03/17/93	<10	<5	<5	<10	<5	<2	<2	<5	<2	<2
	06/07/93	<40	<2	<2	<4	<2	<4	<2	<2	<2	<2
	08/25/93	<80	<4	<4	31	<4	<8	<4	<4	<4	<4
	11/19/93	<40	<2	<2	<10	<2	<4	<2	<2	<2	<2
	2/24/94	<40	<2	<2	<10	<2	<4	<2	<2	<2	<2
	6/13/94	<40	<6	<2	<10	<2	<4	<2	<2	<2	<2
	9/8/94	<40	<6	<2	<10	<2	<4	<2	<2	<2	<2
	12/22/94	<40	<4	<2	<10	<2	<4	<2	<2	<2	<2
	3/14/95	<40	<4	<2	<10	<2	<4	<2	<2	<2	<2
	*6/13/95	<40/<40	<2/<2	<2/<2	<10/<10	<2/<2	<4/<4	<2/<2	8.7/37	<2/<2	<2/<2
	9/7/95	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5
	12/15/95	<2	<4	<2	<2	<2	<2	<2	<2	<2	<2

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
FOURTH 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
	12/15/95	<2	<4	<2	<2	<2	<2	<2	<2	<2	<2
WCC-9S	10/06/89	-	-	-	-	-	-	-	-	-	-
	11/19/91	-	-	-	-	-	-	-	-	-	-
	06/15/92	<30	-	-	-	-	-	-	-	-	-
	09/21/92	<5	<1	<1	10	<1	<1	<1	<1	<1	<1
	12/07/92	<5	<1	<1	3	<1	<1	<1	<1	<1	<1
	03/16/93	<10	<2	<5	<10	<5	<2	<2	<5	<2	<2
	*06/07/93	<40/<40	<2/<2	<2/<2	<4/<4	<2/<2	<4/<4	<2/<2	<2/<2	<2/<2	<2/<2
	08/24/93	<40	<2	<2	<4	<2	<4	<2	<2	<2	<2
	11/18/93	<40	<2	<2	<10	<2	<4	<2	<2	<2	<2
	2/24/94	<40	<4	<2	<10	<2	<4	<2	<2	<2	<2
	6/10/94	<40	<6	<2	<20	<2	<4	<2	<2	<2	<2
	9/8/94	<40	<6	<2	<10	<2	<4	<2	<2	<2	<2
	*12/21/94	<40/<40	<4/<4	<2/<2	<10/<10	<2/<2	<4/<4	<2/<2	<2/<2	<2/<2	<2/<2
	3/13/95	<40	<4	<2	<10	<2	<4	<2	<2	<2	<2
	*6/12/95	<40/<40	<2/<2	<2/<2	<10/<10	<2/<2	<4/<4	<2/<2	<2/<2	<2/<2	<2/<2
	9/6/95	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5
	12/12/95	<2	<4	<2	<2	<2	<2	<2	<2	<2	<2

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
FOURTH 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
	12/16/95	<2	<4	<2	<2	<2	<2	<2	<2	<2	<2
WCC-11S	11/15/91	-	-	-	-	-	-	-	-	-	-
	06/16/92	<10	-	-	-	-	-	-	-	-	-
	09/21/92	<5	<1	2	9	<1	<1	<1	<1	<1	<1
	12/08/92	<5	<1	<1	4	<1	<1	<1	<1	<1	<1
	03/16/93	<10	<2	<5	<10	<5	<2	<2	<5	<2	<2
	06/07/93	<40	<2	<2	<4	<2	<4	<2	<2	<2	<2
	08/24/93	<40	<2	<2	<4	<2	<4	<2	<2	<2	<2
	*11/19/93	<40/<40	<2/<2	<2/<4	<10/<10	<2/<2	<4/<4	<2/<2	<2/<2	<2/<2	<2/<2
	2/23/94	<40	<2	<2	<10	<2	<4	<2	<2	<2	<2
	6/10/94	<40	<6	<2	<20	<2	<4	<2	<2	<2	<2
	*9/8/94	<40/<40	<6/<6	<2/<2	<10/<10	<2/<2	<4/<4	<2/<2	<2/<2	<2/<2	<2/<2
	12/21/94	<40	<4	<2	<10	<2	<4	<2	<2	<2	<2
	3/13/95	<40	<4	<2	<10	<2	<4	<2	<2	<2	<2
	6/12/95	<40	<2	<2	<10	<2	<4	<2	<2	<2	<2
	*9/6/95	<10/<10	<5/<5	<5/<5	<5/<5	<5/<5	<5/<5	<5/<5	<5/<5	<5/<5	<5/<5
	12/15/95	<2	<4	<2	<2	<2	<2	<2	<2	<2	<2

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
FOURTH 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
	12/15/95	<2	<4	<2	<2	<2	<2	<2	<2	<2	<2
DAC-P1	10/09/89	<1,000	-	-	-	-	-	-	-	-	-
	06/17/92	<30	-	-	-	-	-	-	-	-	-
	*06/23/92	<5/<5	<1/<1	1/1	4/4	4/4	9/9	13/13	<1/<1	<1/<1	<1/<1
	12/09/92	<3,000	<500	<500	2,000	<500	<500	<500	<500	<500	<500
	03/18/93	<10	<2	<5	<10	<5	5	10	<5	<2	<2
	06/08/93	<2,000	<100	<100	<200	<100	<200	<100	<100	<100	<100
	08/25/93	<4,000	<200	<200	<400	<200	<400	<200	<200	<200	<200
	11/19/93	<400	<20	<20	<100	<20	<40	<20	<20	<20	<20
	2/24/94	<400	<20	<20	<100	<20	<40	<20	<20	<20	<20
	6/13/94	<400	<60	<20	<100	<20	<40	<20	<20	<20	<20
	9/9/94	<4000	<600	<200	<1000	<200	<400	<200	<200	<200	<200
	12/22/94	<4,000	<400	<200	<1,000	<200	<400	<200	<200	<200	<200
	3/14/95	<4,000	<400	<200	<1,000	<200	<400	<200	<200	<200	<200
	6/13/95	<4,000	<200	<200	<1,000	<200	<400	<200	<200	<200	<200
	9/7/95	<10	<5	<5	<5	<5	<5	17	<5	<5	<5
	12/16/95	<2	<4	<2	<2	<2	4	11	<2	<2	<2

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
FOURTH 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
	12/16/95	<2	<4	<2	<2	<2	<2	<2	<2	<2	<2
WCC-3D	07/25/89	-	-	-	-	-	-	-	-	-	-
	08/23/89	-	-	-	-	-	-	-	-	-	-
	11/14/91	-	-	-	-	-	-	-	-	-	-
	06/16/92	<30	-	-	-	-	-	-	-	-	-
	09/22/92	<5	<1	1	8	<1	<1	<1	<1	<1	<1
	12/07/92	<5	<1	<1	1	<1	<1	<1	<1	<1	<1
	*03/16/93	<10/<10	<2/<2	<5/<5	<10/<10	<5/<5	<2/<2	<2/<2	<5/<5	<2/<2	<2/<2
	06/08/93	<40	<2	<2	<4	<2	<4	<2	<2	<2	<2
	08/24/93	<40	<2	<2	<4	<2	<4	<2	<2	<2	<2
	*11/18/93	<40/<80	<2/<4	<2/<4	<10/<20	<2/<4	<4/<8	<2/<4	<2/<4	<2/<4	<2/<4
	2/23/94	<80	<4	<4	<20	<4	<8	<4	<4	<4	<4
	6/13/94	<200	<30	<10	<50	<10	<20	<10	<10	<10	<10
	9/9/94	<1000	<150	<50	<250	<50	<100	<50	<50	<50	<50
	12/21/94	<80	<8	<4	<20	<4	29	<4	<4	<4	<4
	*3/14/95	<800/<400	<80/<40	<40/<20	<200/<100	<40/<20	<80/<40	<40/61	<40/<20	<40/<20	<40/<20
	6/13/95	<200	<10	<10	<50	<10	<20	<10	<10	<10	<10
	9/7/95	<10	8	<5	<5	<5	35	<5	<5	<5	6
	12/16/95	<2	<4	<2	<2	<2	<2	<2	<2	<2	<2

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

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

TABLE 4

SUMMARY OF GROUNDWATER ELEVATION DATA
FOURTH 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)									
		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	12/12/95
WCC-1S	50.7	-18.25	-18	-17.61	-17.23	-17.25	-17.12	-17.12	-16.53	-16.27	-16.05
WCC-2S	50.59	-18.15	-17.87	-17.49	-17.07	-17.2	-17.17	-17.08	-16.37	-16.19	-15.86
WCC-3S	51.19	-18.36	-18.01	-17.67	-17.19	-17.31	-17.28	-17.22	-16.58	-16.37	-16.06
WCC-4S	49.69	-18.37	-18.16	-17.77	-17.32	-17.37	-17.31	-17.23	-16.61	-16.38	-16.16
WCC-5S	48.22	-18.38	-18.13	-17.78	-17.33	-17.33	-17.25	-17.19	-16.56	-16.35	-16.14
WCC-6S	50.95	-18.55	-18.32	-17.92	-17.48	NM[3]	-17.45	-17.36	16.75	-16.64[4]	-16.30
WCC-7S	48.29	-18.83	-18.6	-18.22	-17.82	-17.8	-17.74	-17.54	-17.03	-16.82	-16.59
WCC-8S	50.56	-18.19	-17.89	-17.49	-17.11	-17.14	-17.12	-17.29	-16.42	-16.16	-15.89
WCC-9S	47.01	-18.69	-18.42	-18.09	-18.63	-19.08	-17.51	-17.41	-16.79	-16.64	-16.39
WCC-10S	51.12	-17.83	-17.54	-17.07	-16.67	-17.03	-16.97	-16.56	-16.05	-15.89	-15.54
WCC-11S	49.97	-17.6	-17.36	-16.96	-16.45	-16.58	-16.63	-16.48	-15.83	-15.59	-15.35
WCC-12S	46.92	-18.78	-18.58	-18.13	-17.74	-17.79	-17.67	-17.63	-17.00	-16.79	-16.54
DAC-P1	52.44	-17.03	-16.76	-16.74	-16.6	-16.48	-16.25	-16.41	-15.94	-15.66	-15.66
WCC-1D	50.45	-18.53	-18.34	-17.83	-17.47	-17.66	-17.55	-17.36	-16.79	-16.60	-16.31
WCC-3D	51.18	-18.4	-18.18	-18	-17.39	-17.47	-17.42	-17.27	-16.67	-16.47	-16.17
MW-8[5]	49.09	NA[6]	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-9[5]	48.67	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-18[5]	50.29	NA	NA	NA	NA	NA	NA	NA	-18.91	NA	NA
MW-19[5]	46.55	NA	NA	NA	NA	NA	NA	NA	-18.06	NA	NA

Notes:

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

94401601.026

BOE-C6-0120792

TABLE 4

SUMMARY OF GROUNDWATER ELEVATION DATA
FOURTH QUARTER 1995
DOUGLAS AIRCRAFT C-6 FACILITY
TORRANCE, CALIFORNIA

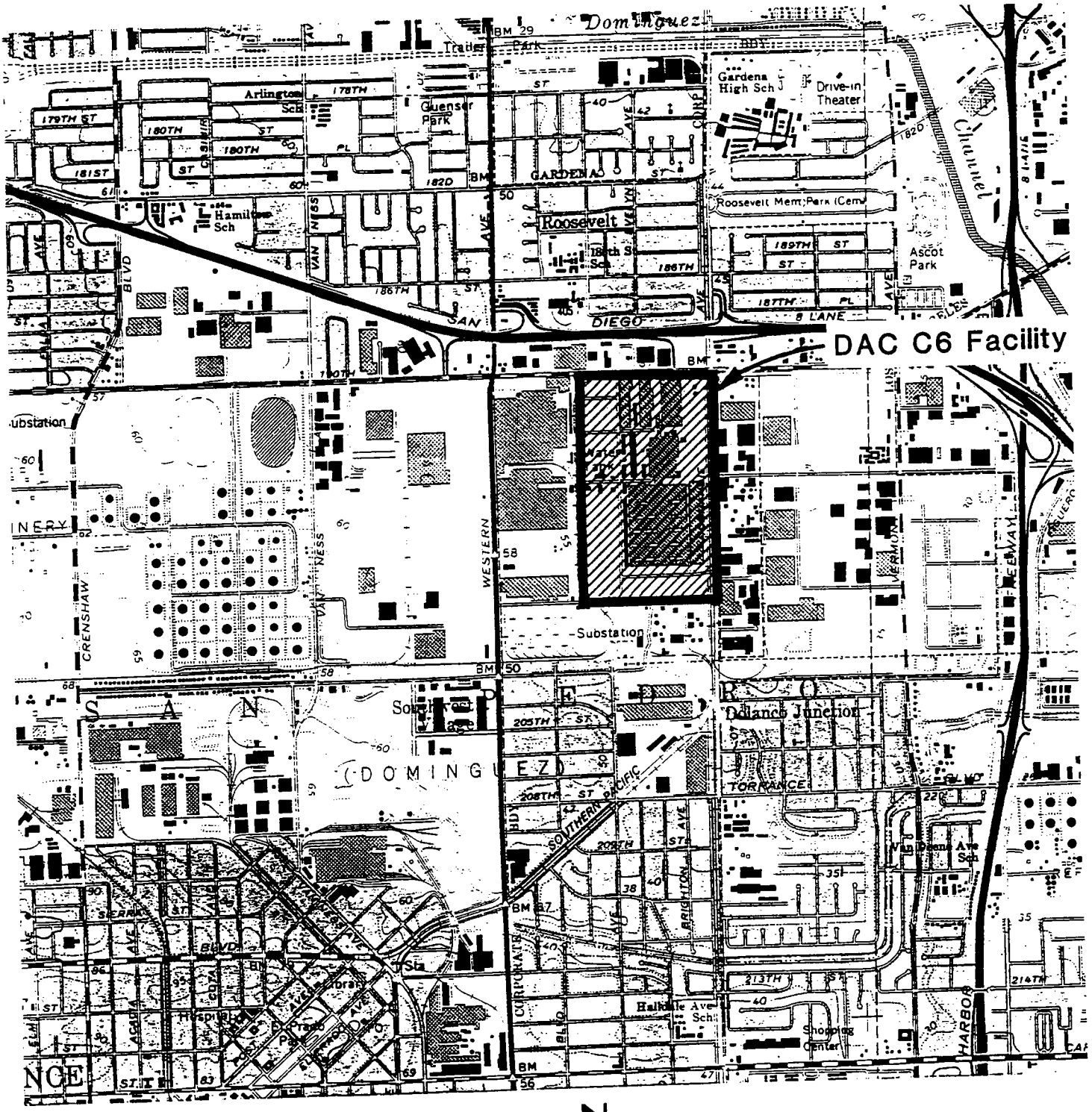
Observation Well	Reference Point[1] Elevation (Feet Above MSL)[2]	Water Level Elevation (Feet Above Mean Sea Level)						
		11/13/87[3]	10/18/89[4]	6/15/92	9/21/92	1/5/93	4/9/93	6/7/93
WCC-1S	50.7	-21.63	-19.48	-19.2	-19.42	-19.34	-18.79	-18.75
WCC-2S	50.59	-19.72	-19.06	-19.15	-19.41	-19.51	-18.64	-18.63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

Notes:

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

BOE-C6-0120793

FIGURES



N

0 1,000 2,000 FEET

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

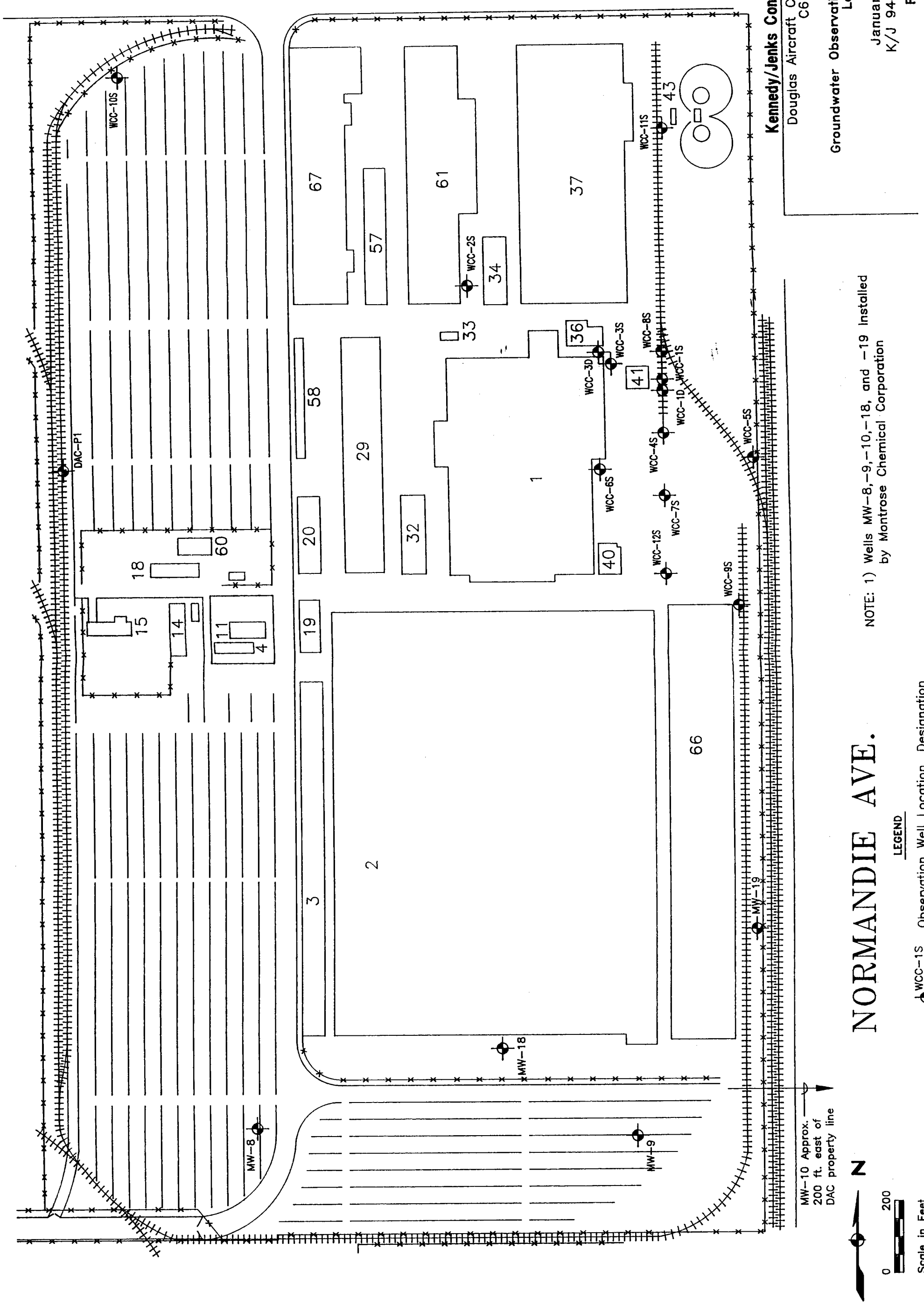
Kennedy/Jenks Consultants

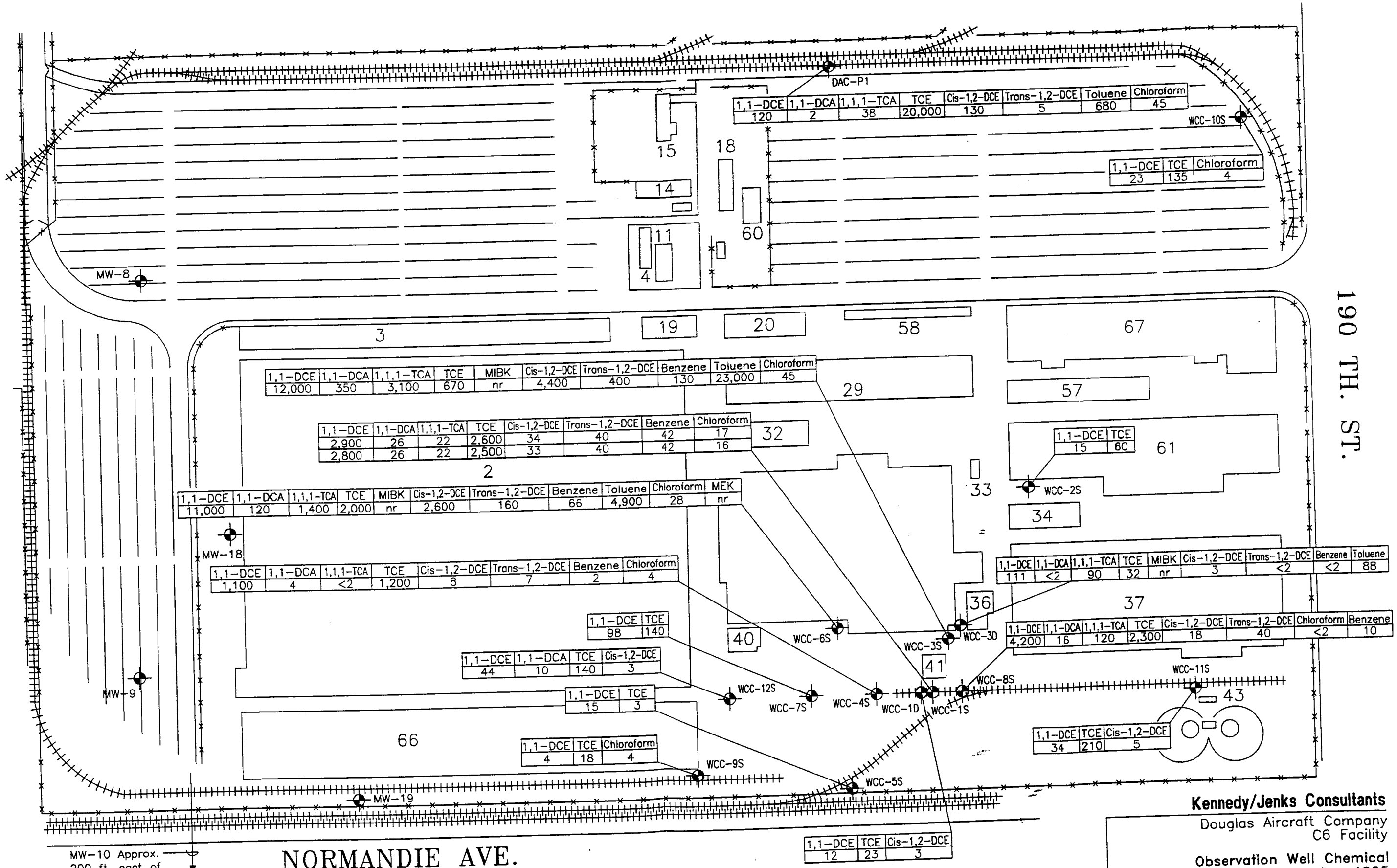
Douglas Aircraft Company
C6 Facility

Site Vicinity Map

January 1996
K/J 944016.01

Figure 1


190 TH. ST.
NORMANDIE AVE.
Kennedy/Jenks Consultants
Douglas Aircraft Company
C6 Facility
Groundwater Observation Well Locations
January 1996
K/J 944016.01
Figure 2
NOTE: 1) Wells MW-8,-9,-10,-18, and -19 Installed by Montrose Chemical Corporation
LEGEND
WCC-1S Observation Well Location, Designation
N
0
200
Scale in Feet
MW-10 Approx. 200 ft. east of DAC property line
DAC-P1
WCC-10S
WCC-11S
WCC-2S
WCC-3S
WCC-3D
WCC-8S
WCC-1S
WCC-1D
WCC-4S
WCC-5S
WCC-6S
WCC-7S
WCC-12S
WCC-9S
MW-8
MW-9
MW-18
MW-19
67
57
61
37
43
33
36
41
58
29
1
20
32
40
60
18
15
14
11
4
19
2
3
66



NOTES:

1. Samples Analyzed by EPA Method 8240/8260
2. All Results Reported in ug/l (ppb)
3. Wells MW-8,-9,-10,-18 and -19 Installed by Montrose Chemical Corporation and are not sampled by Douglas Aircraft Co.
4. Duplicate sample was analyzed for well WCC-1S.
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.
6. Keytones were not reported (nr) by the laboratory performing analysis this quarter.

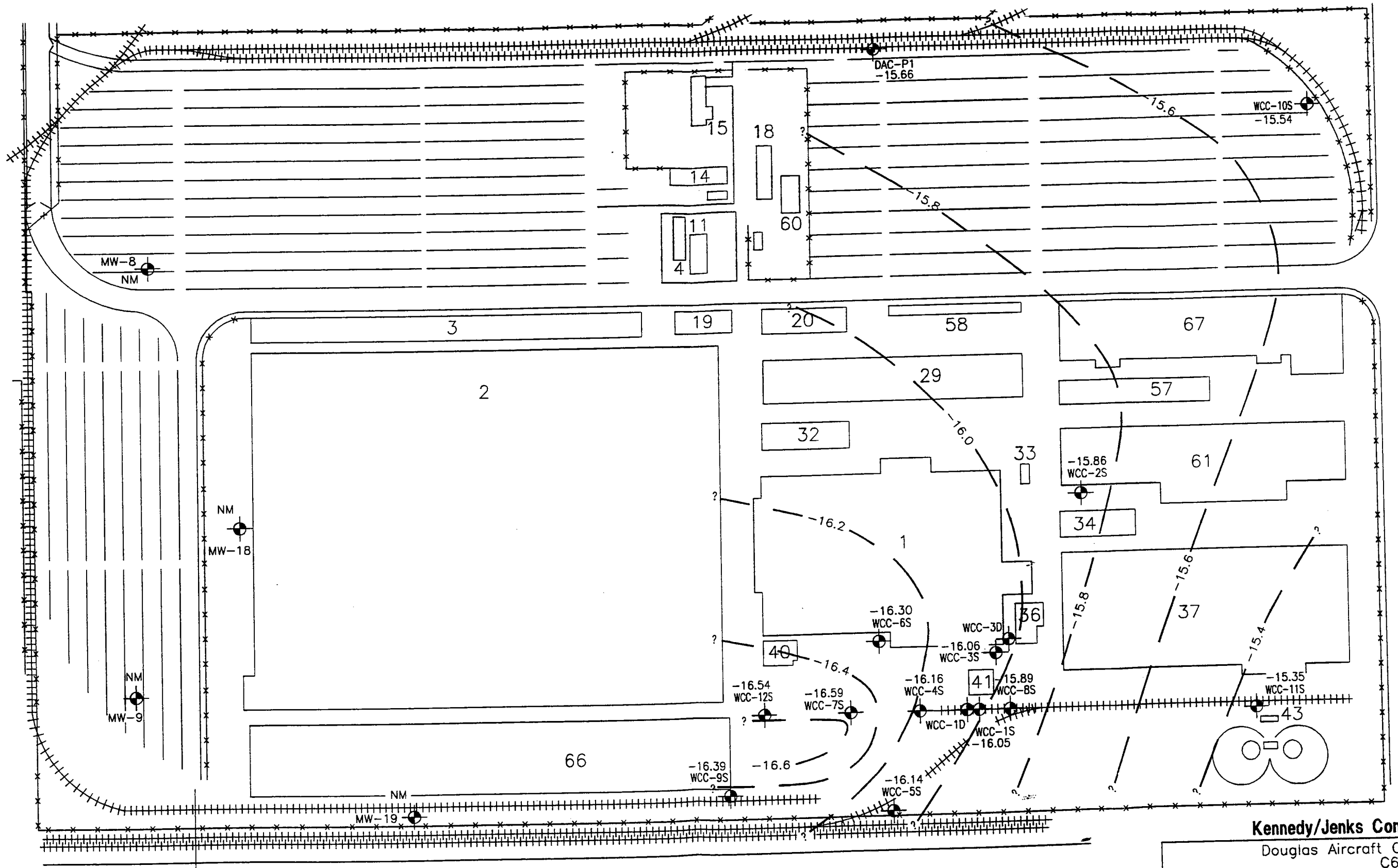
Kennedy/Jenks Consultants

Douglas Aircraft Company
C6 Facility

Observation Well Chemical Concentrations December 1995 Sampling Event

January 1996
K/J 944016.01

Figure 3



LEGEND

WCC-1S / -18.00 — Observation Well Location, Designation and groundwater elevation, feet MSL, measured 12/12/95.

NM – Not Measured

NOTE:
1) Wells MW-8,-9,-10,-18, and -19 Installed by Montrose Chemical Corporation
2) Contour Interval = 0.2 feet
3) Wells WCC-3D and WCC-1D are screened across the deeper zone. Therefore, their water elevations are not included.

Kennedy/Jenks Consultants

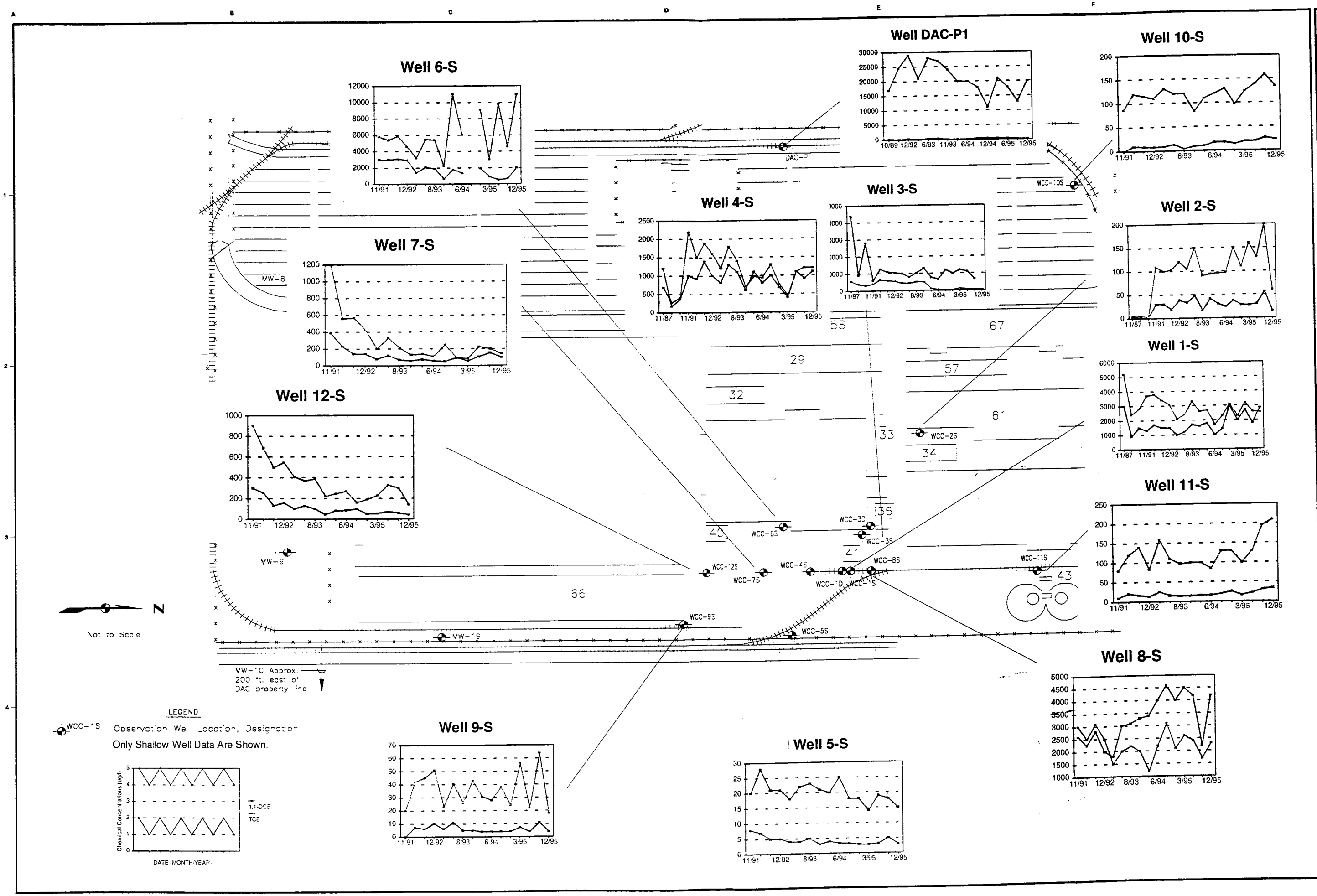
Douglas Aircraft Company
C6 Facility

Estimated Groundwater Elevation Contour Map, Shallow Zone December 1995

January 1996
K/J 944016.01

Figure 4

BOE-C6-0120798



Douglas Aircraft Company
C-6 Facility
Torrance, California

Irvine, California

Kennedy/Jenks Consultants

Submitted:

Approved:

CHEMICAL CONCENTRATION PROFILES

November 1991 to December 1995

Scale: AS NOTED

Job No: 9240'0.01

CADD File No:

Designed:

Drawn:

Checked:

Date:

Sheet: 5

Rev'd | By | Date | Description

BOE-C6-0120799

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: **213527**

Date Received: **12/15/95**
Date Reported: **01/02/95**

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

Project I.D.: **944016.01**

Location: **DAC**

Report On: **TWELVE 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: **213525**

Date Received: **12/18/95**
Date Reported: **01/02/95**

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

Project I.D.: **944016.01**

Location: **DAC**

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

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

Reviewed By: _____ _____

Berkeley *Irvine*

ABBREVIATIONS

BS/BSD - Blank Spike / Blank Spike Duplicate

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

CCR - California Code of Regulations.

DHS - California Department of Health Services.

EPA - United States Environmental Protection Agency.

LCS - Laboratory Control Spike

LUFT - Leaking Underground Fuel Tank.

MDL - Method Detection Limit

NA - Not Applicable.

NC - Not Calculable

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

PQL - Practical Quantitation Limit

RPD - Relative percent difference.

STLC - Soluble Threshold Limit Concentration.

Surr. - Surrogates.

TCLP - Toxicity Characteristic Leaching Procedure.

TEH - Total Extractable Petroleum Hydrocarbons.

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

TR~ - Trace, estimated value .

TTLC - Total Threshold Limit Concentration.

TVH - Total Volatile Hydrocarbons.

WET - Waste Extraction Test.

UNITS

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

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

VOLATILE ORGANICS

Client I.D.: WCC1S-13
Laboratory I.D.: 213527-007
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
Benzene	42	2		ND	2
Bromobenzene	ND	2		ND	2
Bromochloromethane	ND	2		ND	2
Bromodichloromethane	ND	2		ND	2
Bromoform	ND	2		ND	2
Bromomethane	ND	2		ND	2
n-Butylbenzene	ND	2		ND	2
sec-Butylbenzene	ND	2		ND	2
tert-Butylbenzene	ND	2		ND	2
Carbon disulfide	ND	2		ND	2
Carbon tetrachloride	ND	2		ND	2
Chlorobenzene	ND	2		ND	2
Chloroethane	ND	2		ND	2
Chloroform	17	2		ND	2
Chloromethane	ND	2		ND	2
2-Chlorotoluene	ND	2		ND	2
4-Chlorotoluene	ND	2		ND	2
Dibromochloromethane	ND	2		ND	2
1,2-Dibromo-3-chloropropane	ND	2		ND	2
1,2-Dibromoethane	ND	2		ND	2
Dibromomethane	ND	2		ND	2
1,2-Dichlorobenzene	ND	2		ND	2
1,3-Dichlorobenzene	ND	2		ND	2
1,4-Dichlorobenzene	ND	2		ND	2
Dichlorodifluoromethane	ND	2		ND	2
1,1-Dichloroethane	26	2		ND	2
1,2-Dichloroethane	ND	2		ND	2
1,1-Dichloroethene	2,900	200	a	ND	2
cis-1,2-Dichloroethene	34	2		ND	2
trans-1,2-Dichloroethene	40	2		ND	2
1,2-Dichloropropane	ND	2		ND	2
1,3-Dichloropropane	ND	2		ND	2
2,2-Dichloropropane	ND	2		ND	2
1,1-Dichloropropene	ND	2		ND	2
cis-1,3-Dichloropropene	ND	2		ND	2
trans-1,3-Dichloropropene	ND	2		ND	2
Ethylbenzene	ND	2		ND	2
Hexachlorobutadiene	ND	2		ND	2
Isopropylbenzene	ND	2		ND	2
p-isopropyltoluene	ND	2		ND	2
Methylene chloride	ND	2		ND	2
Naphthalene	ND	2		ND	2
n-Propylbenzene	ND	2		ND	2

Analytical Notes

Note: Analysis performed by Calscience Labs., Garden Grove CA.

a - Result reported from a 1:100 dilution.

	Sample	Method Blank
Date Sampled:	12/15/95	N/A
Date Analyzed:	12/27/95	12/27/95

(continued on next page)

VOLATILE ORGANICS

Client I.D.: WCC1S-13
Laboratory I.D.: 213527-007
Client: KENNEDY/JENKS

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

(continued from previous page)

Compound	Result (ug/L)	Detection Limit	Analytical Notes	Method Blank	Detection Limit
Styrene	ND	2		ND	2
1,1,1,2-Tetrachloroethane	ND	2		ND	2
1,1,2,2-Tetrachloroethane	ND	2		ND	2
Tetrachloroethene	ND	2		ND	2
Toluene	ND	2		ND	2
1,2,3-Trichlorobenzene	ND	2		ND	2
1,2,4-Trichlorobenzene	ND	2		ND	2
1,1,1-Trichloroethane	22	2		ND	2
1,1,2-Trichloroethane	ND	2		ND	2
Trichloroethene	2,600	200	a	ND	2
Trichlorofluoromethane	ND	2		ND	2
1,2,3-Trichloropropane	ND	2		ND	2
1,2,4-Trimethylbenzene	ND	2		ND	2
1,3,5-Trimethylbenzene	ND	2		ND	2
Vinyl Chloride	ND	2		ND	2
o-Xylene	ND	2		ND	2
m,p-Xylene	ND	2		ND	2

Analytical Notes

Note: Analysis performed by Calscience Labs., Garden Grove CA.

a - Result reported from a 1:100 dilution.

Quality Control Data Summary

Surrogate Recovery Data

Compound	Percent Recovery	QC Limits
Toluene-d8	105	88-110
1,4-Bromofluorobenzene	104	86-115
Dibromofluoromethane	108	86-118

Laboratory Control Sample, Matrix Spike/Matrix Spike Duplicate Data
Batch: 12-439 Sample I.D.: BS/BSD

Compounds	Spike Amt. (ug/L)	LCS %Rec.	QC Limits	Spike %Rec.	Spk Dup %Rec.	QC Limits	RPD	QC Limits
1,1-Dichloroethene	50	106	69-127	102	116	69-127	13	25
Benzene	50	110	72-127	99	98	72-127	1	25
Trichloroethene	50	104	60-137	96	99	60-137	3	25
Toluene	50	110	75-124	98	100	75-124	2	25
Chlorobenzene	50	102	72-131	98	96	72-131	2	25

VOLATILE ORGANICS

Client I.D.: WCC2S-13
Laboratory I.D.: 213527-002
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
Benzene	ND	2		ND	2
Bromobenzene	ND	2		ND	2
Bromochloromethane	ND	2		ND	2
Bromodichloromethane	ND	2		ND	2
Bromoform	ND	2		ND	2
Bromomethane	ND	2		ND	2
n-Butylbenzene	ND	2		ND	2
sec-Butylbenzene	ND	2		ND	2
tert-Butylbenzene	ND	2		ND	2
Carbon disulfide	ND	2		ND	2
Carbon tetrachloride	ND	2		ND	2
Chlorobenzene	ND	2		ND	2
Chloroethane	ND	2		ND	2
Chloroform	ND	2		ND	2
Chloromethane	ND	2		ND	2
2-Chlorotoluene	ND	2		ND	2
4-Chlorotoluene	ND	2		ND	2
Dibromochloromethane	ND	2		ND	2
1,2-Dibromo-3-chloropropane	ND	2		ND	2
1,2-Dibromoethane	ND	2		ND	2
Dibromomethane	ND	2		ND	2
1,2-Dichlorobenzene	ND	2		ND	2
1,3-Dichlorobenzene	ND	2		ND	2
1,4-Dichlorobenzene	ND	2		ND	2
Dichlorodifluoromethane	ND	2		ND	2
1,1-Dichloroethane	ND	2		ND	2
1,2-Dichloroethane	ND	2		ND	2
1,1-Dichloroethene	15	2		ND	2
cis-1,2-Dichloroethene	ND	2		ND	2
trans-1,2-Dichloroethene	ND	2		ND	2
1,2-Dichloropropane	ND	2		ND	2
1,3-Dichloropropane	ND	2		ND	2
2,2-Dichloropropane	ND	2		ND	2
1,1-Dichloropropene	ND	2		ND	2
cis-1,3-Dichloropropene	ND	2		ND	2
trans-1,3-Dichloropropene	ND	2		ND	2
Ethylbenzene	ND	2		ND	2
Hexachlorobutadiene	ND	2		ND	2
Isopropylbenzene	ND	2		ND	2
p-isopropyltoluene	ND	2		ND	2
Methylene chloride	ND	2		ND	2
Naphthalene	ND	2		ND	2
n-Propylbenzene	ND	2		ND	2

Analytical Notes

Note: Analysis performed by Calscience Labs., Garden Grove CA.

	Sample	Method Blank
Date Sampled:	12/15/95	N/A
Date Analyzed:	12/27/95	12/27/95

(continued on next page)

VOLATILE ORGANICS

Client I.D.: WCC2S-13
Laboratory I.D.: 213527-002
Client: KENNEDY/JENKS

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

(continued from previous page)

Compound	Result (ug/L)	Detection Limit	Analytical Notes	Method Blank	Detection Limit
Styrene	ND	2		ND	2
1,1,1,2-Tetrachloroethane	ND	2		ND	2
1,1,2,2-Tetrachloroethane	ND	2		ND	2
Tetrachloroethene	ND	2		ND	2
Toluene	ND	2		ND	2
1,2,3-Trichlorobenzene	ND	2		ND	2
1,2,4-Trichlorobenzene	ND	2		ND	2
1,1,1-Trichloroethane	ND	2		ND	2
1,1,2-Trichloroethane	ND	2		ND	2
Trichloroethene	59	2		ND	2
Trichlorofluoromethane	ND	2		ND	2
1,2,3-Trichloropropane	ND	2		ND	2
1,2,4-Trimethylbenzene	ND	2		ND	2
1,3,5-Trimethylbenzene	ND	2		ND	2
Vinyl Chloride	ND	2		ND	2
o-Xylene	ND	2		ND	2
m,p-Xylene	ND	2		ND	2

Analytical Notes

Note: Analysis performed by Calscience Labs. , Garden Grove CA.

Quality Control Data Summary

Surrogate Recovery Data

Compound	Percent Recovery	QC Limits
Toluene-d8	106	88-110
1,4-Bromofluorobenzene	102	86-115
Dibromofluoromethane	98	86-118

Laboratory Control Sample, Matrix Spike/Matrix Spike Duplicate Data

Batch: 12-439 Sample I.D.: BS/BSD

Compounds	Spike Amt. (ug/L)	LCS %Rec.	QC Limits	Spike %Rec.	Spk Dup %Rec.	QC Limits	RPD	QC Limits
1,1-Dichloroethene	50	120	69-127	115	126	69-127	9	25
Benzene	50	108	72-127	102	97	72-127	5	25
Trichloroethene	50	106	60-137	104	117	60-137	12	25
Toluene	50	112	75-124	104	100	75-124	4	25
Chlorobenzene	50	102	72-131	101	100	72-131	1	25

VOLATILE ORGANICS

Client I.D.: WCC3S-13
Laboratory I.D.: 213525-005
Client: KENNEDY/JENKS

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

Compound	Result (ug/L)	Detection Limit	Analytical Notes	Method Blank	Detection Limit
Benzene	130	2		ND	2
Bromobenzene	ND	2		ND	2
Bromochloromethane	ND	2		ND	2
Bromodichloromethane	ND	2		ND	2
Bromoform	ND	2		ND	2
Bromomethane	ND	2		ND	2
n-Butylbenzene	ND	2		ND	2
sec-Butylbenzene	ND	2		ND	2
tert-Butylbenzene	ND	2		ND	2
Carbon disulfide	ND	2		ND	2
Carbon tetrachloride	ND	2		ND	2
Chlorobenzene	ND	2		ND	2
Chloroethane	ND	2		ND	2
Chloroform	45	2		ND	2
Chloromethane	ND	2		ND	2
2-Chlorotoluene	ND	2		ND	2
4-Chlorotoluene	ND	2		ND	2
Dibromochloromethane	ND	2		ND	2
1,2-Dibromo-3-chloropropane	ND	2		ND	2
1,2-Dibromoethane	ND	2		ND	2
Dibromomethane	ND	2		ND	2
1,2-Dichlorobenzene	ND	2		ND	2
1,3-Dichlorobenzene	ND	2		ND	2
1,4-Dichlorobenzene	ND	2		ND	2
Dichlorodifluoromethane	ND	2		ND	2
1,1-Dichloroethane	350	200	a	ND	2
1,2-Dichloroethane	41	2		ND	2
1,1-Dichloroethene	12,000	200	a	ND	2
cis-1,2-Dichloroethene	4,400	2		ND	2
trans-1,2-Dichloroethene	400	200	a	ND	2
1,2-Dichloropropane	ND	2		ND	2
1,3-Dichloropropane	ND	2		ND	2
2,2-Dichloropropane	ND	2		ND	2
1,1-Dichloropropene	ND	2		ND	2
cis-1,3-Dichloropropene	ND	2		ND	2
trans-1,3-Dichloropropene	ND	2		ND	2
Ethylbenzene	8	2		ND	2
Hexachlorobutadiene	ND	2		ND	2
Isopropylbenzene	ND	2		ND	2
p-isopropyltoluene	ND	2		ND	2
Methylene chloride	ND	2		ND	2
Naphthalene	ND	2		ND	2
n-Propylbenzene	ND	2		ND	2

Analytical Notes

Note: Analysis performed by Calscience Labs., Garden Grove CA.

a - Result reported from a 1:100 dilution.

	Sample	Method Blank
Date Sampled:	12/16/95	N/A
Date Analyzed:	12/27/95	12/27/95

(continued on next page)

VOLATILE ORGANICS

Client I.D.: WCC3S-13
Laboratory I.D.: 213525-005
Client: KENNEDY/JENKS

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

(continued from previous page)

Compound	Result (ug/L)	Detection Limit	Analytical Notes	Method Blank	Detection Limit
Styrene	ND	2		ND	2
1,1,1,2-Tetrachloroethane	ND	2		ND	2
1,1,2,2-Tetrachloroethane	ND	2		ND	2
Tetrachloroethene	ND	2		ND	2
Toluene	~23,000	200	a,b	ND	2
1,2,3-Trichlorobenzene	ND	2		ND	2
1,2,4-Trichlorobenzene	ND	2		ND	2
1,1,1-Trichloroethane	3,100	2		ND	2
1,1,2-Trichloroethane	22	2		ND	2
Trichloroethene	670	2		ND	2
Trichlorofluoromethane	ND	2		ND	2
1,2,3-Trichloropropane	ND	2		ND	2
1,2,4-Trimethylbenzene	ND	2		ND	2
1,3,5-Trimethylbenzene	ND	2		ND	2
Vinyl Chloride	3	2		ND	2
o-Xylene	ND	2		ND	2
m,p-Xylene	42	2		ND	2

Analytical Notes

Note: Analysis performed by Calscience Labs., Garden Grove CA.

a - Result reported from a 1:100 dilution.

b - Value is an estimate due to over linear range.

Quality Control Data Summary

Surrogate Recovery Data

Compound	Percent Recovery	QC Limits
1,2-Dichloroethane-d4	110	88-110
Toluene-d8	102	86-115
Bromofluorobenzene	102	86-118

Laboratory Control Sample, Matrix Spike/Matrix Spike Duplicate Data
Batch: 12-439 Sample I.D.: BS/BSD

Compounds	Spike Amt. (ug/L)	LCS %Rec.	QC Limits	Spike %Rec.	Spk Dup %Rec.	QC Limits	RPD	QC Limits
1,1-Dichloroethene	50	120	69-127	115	126	69-127	9	25
Benzene	50	108	72-127	102	97	72-127	5	25
Trichloroethene	50	106	60-137	104	117	60-137	12	25
Toluene	50	112	75-124	104	100	75-124	4	25
Chlorobenzene	50	102	72-131	101	100	72-131	1	25

VOLATILE ORGANICS

Client I.D.: WCC4S-13
Laboratory I.D.: 213527-005
Client: KENNEDY/JENKS

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

Compound	Result (ug/L)	Detection Limit	Analytical Notes	Method Blank	Detection Limit
Benzene	2	2		ND	2
Bromobenzene	ND	2		ND	2
Bromochloromethane	ND	2		ND	2
Bromodichloromethane	ND	2		ND	2
Bromoform	ND	2		ND	2
Bromomethane	ND	2		ND	2
n-Butylbenzene	ND	2		ND	2
sec-Butylbenzene	ND	2		ND	2
tert-Butylbenzene	ND	2		ND	2
Carbon disulfide	ND	2		ND	2
Carbon tetrachloride	ND	2		ND	2
Chlorobenzene	ND	2		ND	2
Chloroethane	ND	2		ND	2
Chloroform	4	2		ND	2
Chloromethane	ND	2		ND	2
2-Chlorotoluene	ND	2		ND	2
4-Chlorotoluene	ND	2		ND	2
Dibromochloromethane	ND	2		ND	2
1,2-Dibromo-3-chloropropane	ND	2		ND	2
1,2-Dibromoethane	ND	2		ND	2
Dibromomethane	ND	2		ND	2
1,2-Dichlorobenzene	ND	2		ND	2
1,3-Dichlorobenzene	ND	2		ND	2
1,4-Dichlorobenzene	ND	2		ND	2
Dichlorodifluoromethane	ND	2		ND	2
1,1-Dichloroethane	4	2		ND	2
1,2-Dichloroethane	ND	2		ND	2
1,1-Dichloroethene	1,100	200	a	ND	2
cis-1,2-Dichloroethene	8	2		ND	2
trans-1,2-Dichloroethene	7	2		ND	2
1,2-Dichloropropane	ND	2		ND	2
1,3-Dichloropropane	ND	2		ND	2
2,2-Dichloropropane	ND	2		ND	2
1,1-Dichloropropene	ND	2		ND	2
cis-1,3-Dichloropropene	ND	2		ND	2
trans-1,3-Dichloropropene	ND	2		ND	2
Ethylbenzene	ND	2		ND	2
Hexachlorobutadiene	ND	2		ND	2
Isopropylbenzene	ND	2		ND	2
p-isopropyltoluene	ND	2		ND	2
Methylene chloride	ND	2		ND	2
Naphthalene	ND	2		ND	2
n-Propylbenzene	ND	2		ND	2

Analytical Notes

Note: Analysis performed by Calscience Labs. , Garden Grove CA.

a - Result reported from a 1:100 dilution.

	Sample	Method Blank
Date Sampled:	12/15/95	N/A
Date Analyzed:	12/27/95	12/27/95

(continued on next page)

VOLATILE ORGANICS

Client I.D.: WCC4S-13
Laboratory I.D.: 213527-005
Client: KENNEDY/JENKS

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

(continued from previous page)

Compound	Result (ug/L)	Detection Limit	Analytical Notes	Method Blank	Detection Limit
Styrene	ND	2		ND	2
1,1,1,2-Tetrachloroethane	ND	2		ND	2
1,1,2,2-Tetrachloroethane	ND	2		ND	2
Tetrachloroethene	ND	2		ND	2
Toluene	ND	2		ND	2
1,2,3-Trichlorobenzene	ND	2		ND	2
1,2,4-Trichlorobenzene	ND	2		ND	2
1,1,1-Trichloroethane	ND	2		ND	2
1,1,2-Trichloroethane	ND	2		ND	2
Trichloroethene	1,200	200	a	ND	2
Trichlorofluoromethane	ND	2		ND	2
1,2,3-Trichloropropane	ND	2		ND	2
1,2,4-Trimethylbenzene	ND	2		ND	2
1,3,5-Trimethylbenzene	ND	2		ND	2
Vinyl Chloride	ND	2		ND	2
o-Xylene	ND	2		ND	2
m,p-Xylene	ND	2		ND	2

Analytical Notes

Note: Analysis performed by Calscience Labs., Garden Grove CA.

a - Result reported from a 1:100 dilution.

Quality Control Data Summary

Surrogate Recovery Data

Compound	Percent Recovery	QC Limits
Toluene-d8	108	88-110
1,4-Bromofluorobenzene	101	86-115
Dibromofluoromethane	104	86-118

Laboratory Control Sample, Matrix Spike/Matrix Spike Duplicate Data
Batch: 12-439 Sample I.D.: BS/BSD

Compounds	Spike Amt. (ug/L)	LCS %Rec.	QC Limits	Spike %Rec.	Spk Dup %Rec.	QC Limits	RPD	QC Limits
1,1-Dichloroethene	50	120	69-127	115	126	69-127	9	25
Benzene	50	108	72-127	102	97	72-127	5	25
Trichloroethene	50	106	60-137	104	117	60-137	12	25
Toluene	50	112	75-124	104	100	75-124	4	25
Chlorobenzene	50	102	72-131	101	100	72-131	1	25

VOLATILE ORGANICS

Client I.D.: WCC5S-13
Laboratory I.D.: 213527-010
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
Benzene	ND	2		ND	2
Bromobenzene	ND	2		ND	2
Bromochloromethane	ND	2		ND	2
Bromodichloromethane	ND	2		ND	2
Bromoform	ND	2		ND	2
Bromomethane	ND	2		ND	2
n-Butylbenzene	ND	2		ND	2
sec-Butylbenzene	ND	2		ND	2
tert-Butylbenzene	ND	2		ND	2
Carbon disulfide	ND	2		ND	2
Carbon tetrachloride	ND	2		ND	2
Chlorobenzene	ND	2		ND	2
Chloroethane	ND	2		ND	2
Chloroform	ND	2		ND	2
Chloromethane	ND	2		ND	2
2-Chlorotoluene	ND	2		ND	2
4-Chlorotoluene	ND	2		ND	2
Dibromochloromethane	ND	2		ND	2
1,2-Dibromo-3-chloropropane	ND	2		ND	2
1,2-Dibromoethane	ND	2		ND	2
Dibromomethane	ND	2		ND	2
1,2-Dichlorobenzene	ND	2		ND	2
1,3-Dichlorobenzene	ND	2		ND	2
1,4-Dichlorobenzene	ND	2		ND	2
Dichlorodifluoromethane	ND	2		ND	2
1,1-Dichloroethane	ND	2		ND	2
1,2-Dichloroethane	ND	2		ND	2
1,1-Dichloroethene	15	2		ND	2
cis-1,2-Dichloroethene	ND	2		ND	2
trans-1,2-Dichloroethene	ND	2		ND	2
1,2-Dichloropropane	ND	2		ND	2
1,3-Dichloropropane	ND	2		ND	2
2,2-Dichloropropane	ND	2		ND	2
1,1-Dichloropropene	ND	2		ND	2
cis-1,3-Dichloropropene	ND	2		ND	2
trans-1,3-Dichloropropene	ND	2		ND	2
Ethylbenzene	ND	2		ND	2
Hexachlorobutadiene	ND	2		ND	2
Isopropylbenzene	ND	2		ND	2
p-isopropyltoluene	ND	2		ND	2
Methylene chloride	ND	2		ND	2
Naphthalene	ND	2		ND	2
n-Propylbenzene	ND	2		ND	2

Analytical Notes

Note: Analysis performed by Calscience Labs. , Garden Grove CA.

	Sample	Method Blank
Date Sampled:	12/15/95	N/A
Date Analyzed:	12/27/95	12/27/95

(continued on next page)

VOLATILE ORGANICS

Client I.D.: WCC5S-13
Laboratory I.D.: 213527-010
Client: KENNEDY/JENKS

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

(continued from previous page)

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

Analytical Notes

Note: Analysis performed by Calscience Labs. , Garden Grove CA.

Quality Control Data Summary

Surrogate Recovery Data

Compound	Percent Recovery	QC Limits
Toluene-d8	106	88-110
1,4-Bromofluorobenzene	98	86-115
Dibromofluoromethane	95	86-118

Laboratory Control Sample, Matrix Spike/Matrix Spike Duplicate Data
Batch: 12-439 Sample I.D.: BS/BSD

Compounds	Spike Amt. (ug/L)	LCS %Rec.	QC Limits	Spike %Rec.	Spk Dup %Rec.	QC Limits	RPD	QC Limits
1,1-Dichloroethene	50	106	69-127	102	116	69-127	13	25
Benzene	50	110	72-127	99	98	72-127	1	25
Trichloroethene	50	104	60-137	96	99	60-137	3	25
Toluene	50	110	75-124	98	100	75-124	2	25
Chlorobenzene	50	102	72-131	98	96	72-131	2	25

VOLATILE ORGANICS

Client I.D.: WCC6S-13
Laboratory I.D.: 213525-004
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
Benzene	66	2		ND	2
Bromobenzene	ND	2		ND	2
Bromochloromethane	ND	2		ND	2
Bromodichloromethane	ND	2		ND	2
Bromoform	ND	2		ND	2
Bromomethane	ND	2		ND	2
n-Butylbenzene	ND	2		ND	2
sec-Butylbenzene	ND	2		ND	2
tert-Butylbenzene	ND	2		ND	2
Carbon disulfide	ND	2		ND	2
Carbon tetrachloride	ND	2		ND	2
Chlorobenzene	ND	2		ND	2
Chloroethane	ND	2		ND	2
Chloroform	28	2		ND	2
Chloromethane	ND	2		ND	2
2-Chlorotoluene	ND	2		ND	2
4-Chlorotoluene	ND	2		ND	2
Dibromochloromethane	ND	2		ND	2
1,2-Dibromo-3-chloropropane	ND	2		ND	2
1,2-Dibromoethane	ND	2		ND	2
Dibromomethane	ND	2		ND	2
1,2-Dichlorobenzene	ND	2		ND	2
1,3-Dichlorobenzene	ND	2		ND	2
1,4-Dichlorobenzene	ND	2		ND	2
Dichlorodifluoromethane	ND	2		ND	2
1,1-Dichloroethane	120	2		ND	2
1,2-Dichloroethane	41	2		ND	2
1,1-Dichloroethene	11,000	200	a	ND	2
cis-1,2-Dichloroethene	2,600	200	a	ND	2
trans-1,2-Dichloroethene	160	2		ND	2
1,2-Dichloropropane	ND	2		ND	2
1,3-Dichloropropane	ND	2		ND	2
2,2-Dichloropropane	ND	2		ND	2
1,1-Dichloropropene	ND	2		ND	2
cis-1,3-Dichloropropene	ND	2		ND	2
trans-1,3-Dichloropropene	ND	2		ND	2
Ethylbenzene	5	2		ND	2
Hexachlorobutadiene	ND	2		ND	2
Isopropylbenzene	ND	2		ND	2
p-isopropyltoluene	ND	2		ND	2
Methylene chloride	ND	2		ND	2
Naphthalene	ND	2		ND	2
n-Propylbenzene	ND	2		ND	2

Analytical Notes

Note: Analysis performed by Calscience Labs., Garden Grove CA.

a - Result reported from a 1:100 dilution.

	Sample	Method Blank
Date Sampled:	12/16/95	N/A
Date Analyzed:	12/27/95	12/27/95

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VOLATILE ORGANICS

Client I.D.: WCC6S-13
Laboratory I.D.: 213525-004
Client: KENNEDY/JENKS

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

(continued from previous page)

Compound	Result (ug/L)	Detection Limit	Analytical Notes	Method Blank	Detection Limit
Styrene	ND	2		ND	2
1,1,1,2-Tetrachloroethane	ND	2		ND	2
1,1,2,2-Tetrachloroethane	ND	2		ND	2
Tetrachloroethene	ND	2		ND	2
Toluene	4,900	200	a	ND	2
1,2,3-Trichlorobenzene	ND	2		ND	2
1,2,4-Trichlorobenzene	ND	2		ND	2
1,1,1-Trichloroethane	1,400	200	a	ND	2
1,1,2-Trichloroethane	76	2		ND	2
Trichloroethene	2,000	200	a	ND	2
Trichlorofluoromethane	ND	2		ND	2
1,2,3-Trichloropropane	ND	2		ND	2
1,2,4-Trimethylbenzene	ND	2		ND	2
1,3,5-Trimethylbenzene	ND	2		ND	2
Vinyl Chloride	ND	2		ND	2
o-Xylene	4	2		ND	2
m,p-Xylene	24	2		ND	2

Analytical Notes

Note: Analysis performed by Calscience Labs. , Garden Grove CA.

a - Result reported from a 1:100 dilution.

Quality Control Data Summary

Surrogate Recovery Data

Compound	Percent Recovery	QC Limits
1,2-Dichloroethane-d4	108	88-110
Toluene-d8	101	86-115
Bromofluorobenzene	104	86-118

Laboratory Control Sample, Matrix Spike/Matrix Spike Duplicate Data

Batch: 12-439 Sample I.D.: BS/BSD

Compounds	Spike Amt. (ug/L)	LCS %Rec.	QC Limits	Spike %Rec.	Spk Dup %Rec.	QC Limits	RPD	QC Limits
1,1-Dichloroethene	50	120	69-127	115	126	69-127	9	25
Benzene	50	108	72-127	102	97	72-127	5	25
Trichloroethene	50	106	60-137	104	117	60-137	12	25
Toluene	50	112	75-124	104	100	75-124	4	25
Chlorobenzene	50	102	72-131	101	100	72-131	1	25

VOLATILE ORGANICS

Client I.D.: WCC7S-13
Laboratory I.D.: 213527-003
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
Benzene	ND	2		ND	2
Bromobenzene	ND	2		ND	2
Bromochloromethane	ND	2		ND	2
Bromodichloromethane	ND	2		ND	2
Bromoform	ND	2		ND	2
Bromomethane	ND	2		ND	2
n-Butylbenzene	ND	2		ND	2
sec-Butylbenzene	ND	2		ND	2
tert-Butylbenzene	ND	2		ND	2
Carbon disulfide	ND	2		ND	2
Carbon tetrachloride	ND	2		ND	2
Chlorobenzene	ND	2		ND	2
Chloroethane	ND	2		ND	2
Chloroform	ND	2		ND	2
Chloromethane	ND	2		ND	2
2-Chlorotoluene	ND	2		ND	2
4-Chlorotoluene	ND	2		ND	2
Dibromochloromethane	ND	2		ND	2
1,2-Dibromo-3-chloropropane	ND	2		ND	2
1,2-Dibromoethane	ND	2		ND	2
Dibromomethane	ND	2		ND	2
1,2-Dichlorobenzene	ND	2		ND	2
1,3-Dichlorobenzene	ND	2		ND	2
1,4-Dichlorobenzene	ND	2		ND	2
Dichlorodifluoromethane	ND	2		ND	2
1,1-Dichloroethane	ND	2		ND	2
1,2-Dichloroethane	ND	2		ND	2
1,1-Dichloroethene	98	2		ND	2
cis-1,2-Dichloroethene	ND	2		ND	2
trans-1,2-Dichloroethene	ND	2		ND	2
1,2-Dichloropropane	ND	2		ND	2
1,3-Dichloropropane	ND	2		ND	2
2,2-Dichloropropane	ND	2		ND	2
1,1-Dichloropropene	ND	2		ND	2
cis-1,3-Dichloropropene	ND	2		ND	2
trans-1,3-Dichloropropene	ND	2		ND	2
Ethylbenzene	ND	2		ND	2
Hexachlorobutadiene	ND	2		ND	2
Isopropylbenzene	ND	2		ND	2
p-isopropyltoluene	ND	2		ND	2
Methylene chloride	ND	2		ND	2
Naphthalene	ND	2		ND	2
n-Propylbenzene	ND	2		ND	2

Analytical Notes

Note: Analysis performed by Calscience Labs., Garden Grove CA.

	Sample	Method Blank
Date Sampled:	12/15/95	N/A
Date Analyzed:	12/27/95	12/27/95

(continued on next page)

VOLATILE ORGANICS

Client I.D.: WCC7S-13
Laboratory I.D.: 213527-003
Client: KENNEDY/JENKS

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

(continued from previous page)

Compound	Result (ug/L)	Detection Limit	Analytical Notes	Method Blank	Detection Limit
Styrene	ND	2		ND	2
1,1,1,2-Tetrachloroethane	ND	2		ND	2
1,1,2,2-Tetrachloroethane	ND	2		ND	2
Tetrachloroethene	ND	2		ND	2
Toluene	ND	2		ND	2
1,2,3-Trichlorobenzene	ND	2		ND	2
1,2,4-Trichlorobenzene	ND	2		ND	2
1,1,1-Trichloroethane	ND	2		ND	2
1,1,2-Trichloroethane	ND	2		ND	2
Trichloroethene	140	2		ND	2
Trichlorofluoromethane	ND	2		ND	2
1,2,3-Trichloropropane	ND	2		ND	2
1,2,4-Trimethylbenzene	ND	2		ND	2
1,3,5-Trimethylbenzene	ND	2		ND	2
Vinyl Chloride	ND	2		ND	2
o-Xylene	ND	2		ND	2
m,p-Xylene	ND	2		ND	2

Analytical Notes

Note: Analysis performed by Calscience Labs., Garden Grove CA.

Quality Control Data Summary

Surrogate Recovery Data

Compound	Percent Recovery	QC Limits
Toluene-d8	106	88-110
1,4-Bromofluorobenzene	100	86-115
Dibromofluoromethane	100	86-118

Laboratory Control Sample, Matrix Spike/Matrix Spike Duplicate Data

Batch: 12-439 Sample I.D.: BS/BSD

Compounds	Spike Amt. (ug/L)	LCS %Rec.	QC Limits	Spike %Rec.	Spk Dup %Rec.	QC Limits	RPD	QC Limits
1,1-Dichloroethene	50	120	69-127	115	126	69-127	9	25
Benzene	50	108	72-127	102	97	72-127	5	25
Trichloroethene	50	106	60-137	104	117	60-137	12	25
Toluene	50	112	75-124	104	100	75-124	4	25
Chlorobenzene	50	102	72-131	101	100	72-131	1	25

VOLATILE ORGANICS

Client I.D.: WCC8S-13
Laboratory I.D.: 213527-006
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
Benzene	10	2		ND	2
Bromobenzene	ND	2		ND	2
Bromochloromethane	ND	2		ND	2
Bromodichloromethane	ND	2		ND	2
Bromoform	ND	2		ND	2
Bromomethane	ND	2		ND	2
n-Butylbenzene	ND	2		ND	2
sec-Butylbenzene	ND	2		ND	2
tert-Butylbenzene	ND	2		ND	2
Carbon disulfide	ND	2		ND	2
Carbon tetrachloride	ND	2		ND	2
Chlorobenzene	ND	2		ND	2
Chloroethane	ND	2		ND	2
Chloroform	ND	2		ND	2
Chloromethane	ND	2		ND	2
2-Chlorotoluene	ND	2		ND	2
4-Chlorotoluene	ND	2		ND	2
Dibromochloromethane	ND	2		ND	2
1,2-Dibromo-3-chloropropane	ND	2		ND	2
1,2-Dibromoethane	ND	2		ND	2
Dibromomethane	ND	2		ND	2
1,2-Dichlorobenzene	ND	2		ND	2
1,3-Dichlorobenzene	ND	2		ND	2
1,4-Dichlorobenzene	ND	2		ND	2
Dichlorodifluoromethane	ND	2		ND	2
1,1-Dichloroethane	16	2		ND	2
1,2-Dichloroethane	ND	2		ND	2
1,1-Dichloroethene	4,200	200	a	ND	2
cis-1,2-Dichloroethene	18	2		ND	2
trans-1,2-Dichloroethene	39	2		ND	2
1,2-Dichloropropane	ND	2		ND	2
1,3-Dichloropropane	ND	2		ND	2
2,2-Dichloropropane	ND	2		ND	2
1,1-Dichloropropene	ND	2		ND	2
cis-1,3-Dichloropropene	ND	2		ND	2
trans-1,3-Dichloropropene	ND	2		ND	2
Ethylbenzene	ND	2		ND	2
Hexachlorobutadiene	ND	2		ND	2
Isopropylbenzene	ND	2		ND	2
p-isopropyltoluene	ND	2		ND	2
Methylene chloride	ND	2		ND	2
Naphthalene	ND	2		ND	2
n-Propylbenzene	ND	2		ND	2

Analytical Notes

Note: Analysis performed by Calscience Labs., Garden Grove CA.

a - Result reported fom a 1:100 dilution.

	Sample	Method Blank
Date Sampled:	12/15/95	N/A
Date Analyzed:	12/27/95	12/27/95

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VOLATILE ORGANICS

Client I.D.: WCC8S-13
Laboratory I.D.: 213527-006
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
Styrene	ND	2		ND	2
1,1,1,2-Tetrachloroethane	ND	2		ND	2
1,1,2,2-Tetrachloroethane	ND	2		ND	2
Tetrachloroethene	ND	2		ND	2
Toluene	ND	2		ND	2
1,2,3-Trichlorobenzene	ND	2		ND	2
1,2,4-Trichlorobenzene	ND	2		ND	2
1,1,1-Trichloroethane	120	2		ND	2
1,1,2-Trichloroethane	ND	2		ND	2
Trichloroethene	2,300	200	a	ND	2
Trichlorofluoromethane	ND	2		ND	2
1,2,3-Trichloropropane	ND	2		ND	2
1,2,4-Trimethylbenzene	ND	2		ND	2
1,3,5-Trimethylbenzene	ND	2		ND	2
Vinyl Chloride	ND	2		ND	2
o-Xylene	ND	2		ND	2
m,p-Xylene	ND	2		ND	2

Analytical Notes

Note: Analysis performed by Calscience Labs. , Garden Grove CA.

a - Result reported fom a 1:100 dilution.

Quality Control Data Summary

Surrogate Recovery Data

Compound	Percent Recovery	QC Limits
Toluene-d8	106	88-110
1,4-Bromofluorobenzene	104	86-115
Dibromofluoromethane	109	86-118

Laboratory Control Sample, Matrix Spike/Matrix Spike Duplicate Data

Batch: 12-439 Sample I.D.: BS/BSD

Compounds	Spike Amt. (ug/L)	LCS %Rec.	QC Limits	Spike %Rec.	Spk Dup %Rec.	QC Limits	RPD	QC Limits
1,1-Dichloroethene	50	106	69-127	102	116	69-127	13	25
Benzene	50	110	72-127	99	98	72-127	1	25
Trichloroethene	50	104	60-137	96	99	60-137	3	25
Toluene	50	110	75-124	98	100	75-124	2	25
Chlorobenzene	50	102	72-131	98	96	72-131	2	25

VOLATILE ORGANICS

Client I.D.: WCC9S-13
Laboratory I.D.: 213527-011
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
Benzene	ND	2		ND	2
Bromobenzene	ND	2		ND	2
Bromochloromethane	ND	2		ND	2
Bromodichloromethane	ND	2		ND	2
Bromoform	ND	2		ND	2
Bromomethane	ND	2		ND	2
n-Butylbenzene	ND	2		ND	2
sec-Butylbenzene	ND	2		ND	2
tert-Butylbenzene	ND	2		ND	2
Carbon disulfide	ND	2		ND	2
Carbon tetrachloride	ND	2		ND	2
Chlorobenzene	ND	2		ND	2
Chloroethane	ND	2		ND	2
Chloroform	4	2		ND	2
Chloromethane	ND	2		ND	2
2-Chlorotoluene	ND	2		ND	2
4-Chlorotoluene	ND	2		ND	2
Dibromochloromethane	ND	2		ND	2
1,2-Dibromo-3-chloropropane	ND	2		ND	2
1,2-Dibromoethane	ND	2		ND	2
Dibromomethane	ND	2		ND	2
1,2-Dichlorobenzene	ND	2		ND	2
1,3-Dichlorobenzene	ND	2		ND	2
1,4-Dichlorobenzene	ND	2		ND	2
Dichlorodifluoromethane	ND	2		ND	2
1,1-Dichloroethane	ND	2		ND	2
1,2-Dichloroethane	ND	2		ND	2
1,1-Dichloroethene	4	2		ND	2
cis-1,2-Dichloroethene	3	2		ND	2
trans-1,2-Dichloroethene	ND	2		ND	2
1,2-Dichloropropane	ND	2		ND	2
1,3-Dichloropropane	ND	2		ND	2
2,2-Dichloropropane	ND	2		ND	2
1,1-Dichloropropene	ND	2		ND	2
cis-1,3-Dichloropropene	ND	2		ND	2
trans-1,3-Dichloropropene	ND	2		ND	2
Ethylbenzene	ND	2		ND	2
Hexachlorobutadiene	ND	2		ND	2
Isopropylbenzene	ND	2		ND	2
p-isopropyltoluene	ND	2		ND	2
Methylene chloride	ND	2		ND	2
Naphthalene	ND	2		ND	2
n-Propylbenzene	ND	2		ND	2

Analytical Notes

Note: Analysis performed by Calscience Labs., Garden Grove CA.

	Sample	Method Blank
Date Sampled:	12/15/95	N/A
Date Analyzed:	12/27/95	12/27/95

(continued on next page)

VOLATILE ORGANICS

Client I.D.: WCC9S-13
Laboratory I.D.: 213527-011
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
Styrene	ND	2		ND	2
1,1,1,2-Tetrachloroethane	ND	2		ND	2
1,1,2,2-Tetrachloroethane	ND	2		ND	2
Tetrachloroethene	ND	2		ND	2
Toluene	ND	2		ND	2
1,2,3-Trichlorobenzene	ND	2		ND	2
1,2,4-Trichlorobenzene	ND	2		ND	2
1,1,1-Trichloroethane	ND	2		ND	2
1,1,2-Trichloroethane	ND	2		ND	2
Trichloroethene	18	2		ND	2
Trichlorofluoromethane	ND	2		ND	2
1,2,3-Trichloropropane	ND	2		ND	2
1,2,4-Trimethylbenzene	ND	2		ND	2
1,3,5-Trimethylbenzene	ND	2		ND	2
Vinyl Chloride	ND	2		ND	2
o-Xylene	ND	2		ND	2
m,p-Xylene	ND	2		ND	2

Analytical Notes

Note: Analysis performed by Calscience Labs. , Garden Grove CA.

Quality Control Data Summary

Surrogate Recovery Data

Compound	Percent Recovery	QC Limits
Toluene-d8	107	88-110
1,4-Bromofluorobenzene	100	86-115
Dibromofluoromethane	98	86-118

Laboratory Control Sample, Matrix Spike/Matrix Spike Duplicate Data

Batch: 12-439 Sample I.D.: BS/BSD

Compounds	Spike Amt. (ug/L)	LCS %Rec.	QC Limits	Spike %Rec.	Spk Dup %Rec.	QC Limits	RPD	QC Limits
1,1-Dichloroethene	50	106	69-127	102	116	69-127	13	25
Benzene	50	110	72-127	99	98	72-127	1	25
Trichloroethene	50	104	60-137	96	99	60-137	3	25
Toluene	50	110	75-124	98	100	75-124	2	25
Chlorobenzene	50	102	72-131	98	96	72-131	2	25

VOLATILE ORGANICS

Client I.D.: WCC10S-13
Laboratory I.D.: 213525-002
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
Benzene	ND	2		ND	2
Bromobenzene	ND	2		ND	2
Bromochloromethane	ND	2		ND	2
Bromodichloromethane	ND	2		ND	2
Bromoform	ND	2		ND	2
Bromomethane	ND	2		ND	2
n-Butylbenzene	ND	2		ND	2
sec-Butylbenzene	ND	2		ND	2
tert-Butylbenzene	ND	2		ND	2
Carbon disulfide	ND	2		ND	2
Carbon tetrachloride	ND	2		ND	2
Chlorobenzene	ND	2		ND	2
Chloroethane	ND	2		ND	2
Chloroform	4	2		ND	2
Chloromethane	ND	2		ND	2
2-Chlorotoluene	ND	2		ND	2
4-Chlorotoluene	ND	2		ND	2
Dibromochloromethane	ND	2		ND	2
1,2-Dibromo-3-chloropropane	ND	2		ND	2
1,2-Dibromoethane	ND	2		ND	2
Dibromomethane	ND	2		ND	2
1,2-Dichlorobenzene	ND	2		ND	2
1,3-Dichlorobenzene	ND	2		ND	2
1,4-Dichlorobenzene	ND	2		ND	2
Dichlorodifluoromethane	ND	2		ND	2
1,1-Dichloroethane	ND	2		ND	2
1,2-Dichloroethane	ND	2		ND	2
1,1-Dichloroethene	23	2		ND	2
cis-1,2-Dichloroethene	ND	2		ND	2
trans-1,2-Dichloroethene	ND	2		ND	2
1,2-Dichloropropane	ND	2		ND	2
1,3-Dichloropropane	ND	2		ND	2
2,2-Dichloropropane	ND	2		ND	2
1,1-Dichloropropene	ND	2		ND	2
cis-1,3-Dichloropropene	ND	2		ND	2
trans-1,3-Dichloropropene	ND	2		ND	2
Ethylbenzene	ND	2		ND	2
Hexachlorobutadiene	ND	2		ND	2
Isopropylbenzene	ND	2		ND	2
p-isopropyltoluene	ND	2		ND	2
Methylene chloride	ND	2		ND	2
Naphthalene	ND	2		ND	2
n-Propylbenzene	ND	2		ND	2

Analytical Notes

Note: Analysis performed by Calscience Labs., Garden Grove CA.

	Sample	Method Blank
Date Sampled:	12/16/95	N/A
Date Analyzed:	12/27/95	12/27/95

(continued on next page)

VOLATILE ORGANICS

Client I.D.: WCC10S-13
Laboratory I.D.: 213525-002
Client: KENNEDY/JENKS

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

(continued from previous page)

Compound	Result (ug/L)	Detection Limit	Analytical Notes	Method Blank	Detection Limit
Styrene	ND	2		ND	2
1,1,1,2-Tetrachloroethane	ND	2		ND	2
1,1,2,2-Tetrachloroethane	ND	2		ND	2
Tetrachloroethene	ND	2		ND	2
Toluene	ND	2		ND	2
1,2,3-Trichlorobenzene	ND	2		ND	2
1,2,4-Trichlorobenzene	ND	2		ND	2
1,1,1-Trichloroethane	ND	2		ND	2
1,1,2-Trichloroethane	ND	2		ND	2
Trichloroethene	135	2		ND	2
Trichlorofluoromethane	ND	2		ND	2
1,2,3-Trichloropropane	ND	2		ND	2
1,2,4-Trimethylbenzene	ND	2		ND	2
1,3,5-Trimethylbenzene	ND	2		ND	2
Vinyl Chloride	ND	2		ND	2
o-Xylene	ND	2		ND	2
m,p-Xylene	ND	2		ND	2

Analytical Notes

Note: Analysis performed by Calscience Labs., Garden Grove CA.

Quality Control Data Summary

Surrogate Recovery Data

Compound	Percent Recovery	QC Limits
1,2-Dichloroethane-d4	110	88-110
Toluene-d8	104	86-115
Bromofluorobenzene	105	86-118

Laboratory Control Sample, Matrix Spike/Matrix Spike Duplicate Data

Batch: 12-439 Sample I.D.: BS/BSD

Compounds	Spike Amt. (ug/L)	LCS %Rec.	QC Limits	Spike %Rec.	Spk Dup %Rec.	QC Limits	RPD	QC Limits
1,1-Dichloroethene	50	120	69-127	115	126	69-127	9	25
Benzene	50	108	72-127	102	97	72-127	5	25
Trichloroethene	50	106	60-137	104	117	60-137	12	25
Toluene	50	112	75-124	104	100	75-124	4	25
Chlorobenzene	50	102	72-131	101	100	72-131	1	25

VOLATILE ORGANICS

Client I.D.: WCC11S-13
Laboratory I.D.: 213527-004
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
Benzene	ND	2		ND	2
Bromobenzene	ND	2		ND	2
Bromochloromethane	ND	2		ND	2
Bromodichloromethane	ND	2		ND	2
Bromoform	ND	2		ND	2
Bromomethane	ND	2		ND	2
n-Butylbenzene	ND	2		ND	2
sec-Butylbenzene	ND	2		ND	2
tert-Butylbenzene	ND	2		ND	2
Carbon disulfide	ND	2		ND	2
Carbon tetrachloride	ND	2		ND	2
Chlorobenzene	ND	2		ND	2
Chloroethane	ND	2		ND	2
Chloroform	ND	2		ND	2
Chloromethane	ND	2		ND	2
2-Chlorotoluene	ND	2		ND	2
4-Chlorotoluene	ND	2		ND	2
Dibromochloromethane	ND	2		ND	2
1,2-Dibromo-3-chloropropane	ND	2		ND	2
1,2-Dibromoethane	ND	2		ND	2
Dibromomethane	ND	2		ND	2
1,2-Dichlorobenzene	ND	2		ND	2
1,3-Dichlorobenzene	ND	2		ND	2
1,4-Dichlorobenzene	ND	2		ND	2
Dichlorodifluoromethane	ND	2		ND	2
1,1-Dichloroethane	ND	2		ND	2
1,2-Dichloroethane	ND	2		ND	2
1,1-Dichloroethene	34	2		ND	2
cis-1,2-Dichloroethene	5	2		ND	2
trans-1,2-Dichloroethene	ND	2		ND	2
1,2-Dichloropropane	ND	2		ND	2
1,3-Dichloropropane	ND	2		ND	2
2,2-Dichloropropane	ND	2		ND	2
1,1-Dichloropropene	ND	2		ND	2
cis-1,3-Dichloropropene	ND	2		ND	2
trans-1,3-Dichloropropene	ND	2		ND	2
Ethylbenzene	ND	2		ND	2
Hexachlorobutadiene	ND	2		ND	2
Isopropylbenzene	ND	2		ND	2
p-isopropyltoluene	ND	2		ND	2
Methylene chloride	ND	2		ND	2
Naphthalene	ND	2		ND	2
n-Propylbenzene	ND	2		ND	2

Analytical Notes

Note: Analysis performed by Calscience Labs. , Garden Grove CA.

	Sample	Method Blank
Date Sampled:	12/15/95	N/A
Date Analyzed:	12/27/95	12/27/95

(continued on next page)

VOLATILE ORGANICS

Client I.D.: WCC11S-13
Laboratory I.D.: 213527-004
Client: KENNEDY/JENKS

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

(continued from previous page)

Compound	Result (ug/L)	Detection Limit	Analytical Notes	Method Blank	Detection Limit
Styrene	ND	2		ND	2
1,1,1,2-Tetrachloroethane	ND	2		ND	2
1,1,2,2-Tetrachloroethane	ND	2		ND	2
Tetrachloroethene	ND	2		ND	2
Toluene	ND	2		ND	2
1,2,3-Trichlorobenzene	ND	2		ND	2
1,2,4-Trichlorobenzene	ND	2		ND	2
1,1,1-Trichloroethane	ND	2		ND	2
1,1,2-Trichloroethane	ND	2		ND	2
Trichloroethene	210	2		ND	2
Trichlorofluoromethane	ND	2		ND	2
1,2,3-Trichloropropane	ND	2		ND	2
1,2,4-Trimethylbenzene	ND	2		ND	2
1,3,5-Trimethylbenzene	ND	2		ND	2
Vinyl Chloride	ND	2		ND	2
o-Xylene	ND	2		ND	2
m,p-Xylene	ND	2		ND	2

Analytical Notes

Note: Analysis performed by Calscience Labs. , Garden Grove CA.

Quality Control Data Summary

Surrogate Recovery Data

Compound	Percent Recovery	QC Limits
Toluene-d8	110	88-110
1,4-Bromofluorobenzene	103	86-115
Dibromofluoromethane	102	86-118

Laboratory Control Sample, Matrix Spike/Matrix Spike Duplicate Data

Batch: 12-439 Sample I.D.: BS/BSD

Compounds	Spike Amt. (ug/L)	LCS %Rec.	QC Limits	Spike %Rec.	Spk Dup %Rec.	QC Limits	RPD	QC Limits
1,1-Dichloroethene	50	120	69-127	115	126	69-127	9	25
Benzene	50	108	72-127	102	97	72-127	5	25
Trichloroethene	50	106	60-137	104	117	60-137	12	25
Toluene	50	112	75-124	104	100	75-124	4	25
Chlorobenzene	50	102	72-131	101	100	72-131	1	25

VOLATILE ORGANICS

Client I.D.: WCC12S-13
Laboratory I.D.: 213527-001
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
Benzene	ND	2		ND	2
Bromobenzene	ND	2		ND	2
Bromochloromethane	ND	2		ND	2
Bromodichloromethane	ND	2		ND	2
Bromoform	ND	2		ND	2
Bromomethane	ND	2		ND	2
n-Butylbenzene	ND	2		ND	2
sec-Butylbenzene	ND	2		ND	2
tert-Butylbenzene	ND	2		ND	2
Carbon disulfide	ND	2		ND	2
Carbon tetrachloride	ND	2		ND	2
Chlorobenzene	ND	2		ND	2
Chloroethane	ND	2		ND	2
Chloroform	2	2		ND	2
Chloromethane	ND	2		ND	2
2-Chlorotoluene	ND	2		ND	2
4-Chlorotoluene	ND	2		ND	2
Dibromochloromethane	ND	2		ND	2
1,2-Dibromo-3-chloropropane	ND	2		ND	2
1,2-Dibromoethane	ND	2		ND	2
Dibromomethane	ND	2		ND	2
1,2-Dichlorobenzene	ND	2		ND	2
1,3-Dichlorobenzene	ND	2		ND	2
1,4-Dichlorobenzene	ND	2		ND	2
Dichlorodifluoromethane	ND	2		ND	2
1,1-Dichloroethane	10	2		ND	2
1,2-Dichloroethane	ND	2		ND	2
1,1-Dichloroethene	44	2		ND	2
cis-1,2-Dichloroethene	3	2		ND	2
trans-1,2-Dichloroethene	ND	2		ND	2
1,2-Dichloropropane	ND	2		ND	2
1,3-Dichloropropane	ND	2		ND	2
2,2-Dichloropropane	ND	2		ND	2
1,1-Dichloropropene	ND	2		ND	2
cis-1,3-Dichloropropene	ND	2		ND	2
trans-1,3-Dichloropropene	ND	2		ND	2
Ethylbenzene	ND	2		ND	2
Hexachlorobutadiene	ND	2		ND	2
Isopropylbenzene	ND	2		ND	2
p-isopropyltoluene	ND	2		ND	2
Methylene chloride	ND	2		ND	2
Naphthalene	ND	2		ND	2
n-Propylbenzene	ND	2		ND	2

Analytical Notes

Note: Analysis performed by Calscience Labs. , Garden Grove CA.

	Sample	Method Blank
Date Sampled:	12/15/95	N/A
Date Analyzed:	12/27/95	12/27/95

(continued on next page)

VOLATILE ORGANICS

Client I.D.: WCC12S-13
Laboratory I.D.: 213527-001
Client: KENNEDY/JENKS

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

(continued from previous page)

Compound	Result (ug/L)	Detection Limit	Analytical Notes	Method Blank	Detection Limit
Styrene	ND	2		ND	2
1,1,1,2-Tetrachloroethane	ND	2		ND	2
1,1,2,2-Tetrachloroethane	ND	2		ND	2
Tetrachloroethene	ND	2		ND	2
Toluene	ND	2		ND	2
1,2,3-Trichlorobenzene	ND	2		ND	2
1,2,4-Trichlorobenzene	ND	2		ND	2
1,1,1-Trichloroethane	ND	2		ND	2
1,1,2-Trichloroethane	ND	2		ND	2
Trichloroethene	140	2		ND	2
Trichlorofluoromethane	ND	2		ND	2
1,2,3-Trichloropropane	ND	2		ND	2
1,2,4-Trimethylbenzene	ND	2		ND	2
1,3,5-Trimethylbenzene	ND	2		ND	2
Vinyl Chloride	ND	2		ND	2
o-Xylene	ND	2		ND	2
m,p-Xylene	ND	2		ND	2

Analytical Notes

Note: Analysis performed by Calscience Labs., Garden Grove CA.

Quality Control Data Summary

Surrogate Recovery Data

Compound	Percent Recovery	QC Limits
Toluene-d8	107	88-110
1,4-Bromofluorobenzene	100	86-115
Dibromofluoromethane	101	86-118

Laboratory Control Sample, Matrix Spike/Matrix Spike Duplicate Data

Batch: 12-439 Sample I.D.: BS/BSD

Compounds	Spike Amt. (ug/L)	LCS %Rec.	QC Limits	Spike %Rec.	Spk Dup %Rec.	QC Limits	RPD	QC Limits
1,1-Dichloroethene	50	120	69-127	115	126	69-127	9	25
Benzene	50	108	72-127	102	97	72-127	5	25
Trichloroethene	50	106	60-137	104	117	60-137	12	25
Toluene	50	112	75-124	104	100	75-124	4	25
Chlorobenzene	50	102	72-131	101	100	72-131	1	25

VOLATILE ORGANICS

Client I.D.: DAC-P1
Laboratory I.D.: 213525-006
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
Benzene	5	2		ND	2
Bromobenzene	ND	2		ND	2
Bromochloromethane	ND	2		ND	2
Bromodichloromethane	ND	2		ND	2
Bromoform	ND	2		ND	2
Bromomethane	ND	2		ND	2
n-Butylbenzene	ND	2		ND	2
sec-Butylbenzene	ND	2		ND	2
tert-Butylbenzene	ND	2		ND	2
Carbon disulfide	ND	2		ND	2
Carbon tetrachloride	ND	2		ND	2
Chlorobenzene	ND	2		ND	2
Chloroethane	ND	2		ND	2
Chloroform	45	2		ND	2
Chloromethane	ND	2		ND	2
2-Chlorotoluene	ND	2		ND	2
4-Chlorotoluene	ND	2		ND	2
Dibromochloromethane	ND	2		ND	2
1,2-Dibromo-3-chloropropane	ND	2		ND	2
1,2-Dibromoethane	ND	2		ND	2
Dibromomethane	ND	2		ND	2
1,2-Dichlorobenzene	ND	2		ND	2
1,3-Dichlorobenzene	ND	2		ND	2
1,4-Dichlorobenzene	ND	2		ND	2
Dichlorodifluoromethane	ND	2		ND	2
1,1-Dichloroethane	2	2		ND	2
1,2-Dichloroethane	ND	2		ND	2
1,1-Dichloroethene	120	2		ND	2
cis-1,2-Dichloroethene	130	2		ND	2
trans-1,2-Dichloroethene	5	2		ND	2
1,2-Dichloropropane	ND	2		ND	2
1,3-Dichloropropane	ND	2		ND	2
2,2-Dichloropropane	ND	2		ND	2
1,1-Dichloropropene	ND	2		ND	2
cis-1,3-Dichloropropene	ND	2		ND	2
trans-1,3-Dichloropropene	ND	2		ND	2
Ethylbenzene	ND	2		ND	2
Hexachlorobutadiene	ND	2		ND	2
Isopropylbenzene	ND	2		ND	2
p-isopropyltoluene	ND	2		ND	2
Methylene chloride	ND	2		ND	2
Naphthalene	ND	2		ND	2
n-Propylbenzene	ND	2		ND	2

Analytical Notes

Note: Analysis performed by Calscience Labs., Garden Grove CA.

	Sample	Method Blank
Date Sampled:	12/16/95	N/A
Date Analyzed:	12/27/95	12/27/95

(continued on next page)

VOLATILE ORGANICS

Client I.D.: DAC-P1
Laboratory I.D.: 213525-006
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
Styrene	ND	2		ND	2
1,1,1,2-Tetrachloroethane	ND	2		ND	2
1,1,2,2-Tetrachloroethane	ND	2		ND	2
Tetrachloroethene	11	2		ND	2
Toluene	680	200	a	ND	2
1,2,3-Trichlorobenzene	ND	2		ND	2
1,2,4-Trichlorobenzene	ND	2		ND	2
1,1,1-Trichloroethane	38	2		ND	2
1,1,2-Trichloroethane	4	2		ND	2
Trichloroethene	20,000	200	a	ND	2
Trichlorofluoromethane	ND	2		ND	2
1,2,3-Trichloropropane	ND	2		ND	2
1,2,4-Trimethylbenzene	ND	2		ND	2
1,3,5-Trimethylbenzene	ND	2		ND	2
Vinyl Chloride	ND	2		ND	2
o-Xylene	ND	2		ND	2
m,p-Xylene	ND	2		ND	2

Analytical Notes

Note: Analysis performed by Calscience Labs. , Garden Grove CA.

a - Result reported from a 1:100 dilution.

Quality Control Data Summary

Surrogate Recovery Data

Compound	Percent Recovery	QC Limits
1,2-Dichloroethane-d4	97	88-110
Toluene-d8	106	86-115
Bromofluorobenzene	96	86-118

Laboratory Control Sample, Matrix Spike/Matrix Spike Duplicate Data

Batch: 12-439 Sample I.D.: BS/BSD

Compounds	Spike Amt. (ug/L)	LCS %Rec.	QC Limits	Spike %Rec.	Spk Dup %Rec.	QC Limits	RPD	QC Limits
1,1-Dichloroethene	50	120	69-127	115	126	69-127	9	25
Benzene	50	108	72-127	102	97	72-127	5	25
Trichloroethene	50	106	60-137	104	117	60-137	12	25
Toluene	50	112	75-124	104	100	75-124	4	25
Chlorobenzene	50	102	72-131	101	100	72-131	1	25

VOLATILE ORGANICS

Client I.D.: WCC1D-13
Laboratory I.D.: 213525-001
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
Benzene	ND	2		ND	2
Bromobenzene	ND	2		ND	2
Bromochloromethane	ND	2		ND	2
Bromodichloromethane	ND	2		ND	2
Bromoform	ND	2		ND	2
Bromomethane	ND	2		ND	2
n-Butylbenzene	ND	2		ND	2
sec-Butylbenzene	ND	2		ND	2
tert-Butylbenzene	ND	2		ND	2
Carbon disulfide	ND	2		ND	2
Carbon tetrachloride	ND	2		ND	2
Chlorobenzene	ND	2		ND	2
Chloroethane	ND	2		ND	2
Chloroform	ND	2		ND	2
Chloromethane	ND	2		ND	2
2-Chlorotoluene	ND	2		ND	2
4-Chlorotoluene	ND	2		ND	2
Dibromochloromethane	ND	2		ND	2
1,2-Dibromo-3-chloropropane	ND	2		ND	2
1,2-Dibromoethane	ND	2		ND	2
Dibromomethane	ND	2		ND	2
1,2-Dichlorobenzene	ND	2		ND	2
1,3-Dichlorobenzene	ND	2		ND	2
1,4-Dichlorobenzene	ND	2		ND	2
Dichlorodifluoromethane	ND	2		ND	2
1,1-Dichloroethane	ND	2		ND	2
1,2-Dichloroethane	ND	2		ND	2
1,1-Dichloroethene	12	2		ND	2
cis-1,2-Dichloroethene	3	2		ND	2
trans-1,2-Dichloroethene	ND	2		ND	2
1,2-Dichloropropane	ND	2		ND	2
1,3-Dichloropropane	ND	2		ND	2
2,2-Dichloropropane	ND	2		ND	2
1,1-Dichloropropene	ND	2		ND	2
cis-1,3-Dichloropropene	ND	2		ND	2
trans-1,3-Dichloropropene	ND	2		ND	2
Ethylbenzene	ND	2		ND	2
Hexachlorobutadiene	ND	2		ND	2
Isopropylbenzene	ND	2		ND	2
p-isopropyltoluene	ND	2		ND	2
Methylene chloride	ND	2		ND	2
Naphthalene	ND	2		ND	2
n-Propylbenzene	ND	2		ND	2

Analytical Notes

Note: Analysis performed by Calscience Labs. , Garden Grove CA.

	Sample	Method Blank
Date Sampled:	12/16/95	N/A
Date Analyzed:	12/27/95	12/27/95

(continued on next page)

VOLATILE ORGANICS

Client I.D.: WCC1D-13
Laboratory I.D.: 213525-001
Client: KENNEDY/JENKS

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

(continued from previous page)

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

Analytical Notes

Note: Analysis performed by Calscience Labs., Garden Grove CA.

Quality Control Data Summary

Surrogate Recovery Data

Compound	Percent Recovery	QC Limits
Toluene-d8	109	88-110
1,4-Bromofluorobenzene	102	86-115
Dibromofluoromethane	103	86-118

Laboratory Control Sample, Matrix Spike/Matrix Spike Duplicate Data
Batch: 12-439 Sample I.D.: BS/BSD

Compounds	Spike Amt. (ug/L)	LCS %Rec.	QC Limits	Spike %Rec.	Spk Dup %Rec.	QC Limits	RPD	QC Limits
1,1-Dichloroethene	50	120	69-127	115	126	69-127	9	25
Benzene	50	108	72-127	102	97	72-127	5	25
Trichloroethene	50	106	60-137	104	117	60-137	12	25
Toluene	50	112	75-124	104	100	75-124	4	25
Chlorobenzene	50	102	72-131	101	100	72-131	1	25

VOLATILE ORGANICS

Client I.D.: WCC3D-13
Laboratory I.D.: 213525-003
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
Benzene	ND	2		ND	2
Bromobenzene	ND	2		ND	2
Bromochloromethane	ND	2		ND	2
Bromodichloromethane	ND	2		ND	2
Bromoform	ND	2		ND	2
Bromomethane	ND	2		ND	2
n-Butylbenzene	ND	2		ND	2
sec-Butylbenzene	ND	2		ND	2
tert-Butylbenzene	ND	2		ND	2
Carbon disulfide	ND	2		ND	2
Carbon tetrachloride	ND	2		ND	2
Chlorobenzene	ND	2		ND	2
Chloroethane	ND	2		ND	2
Chloroform	ND	2		ND	2
Chloromethane	ND	2		ND	2
2-Chlorotoluene	ND	2		ND	2
4-Chlorotoluene	ND	2		ND	2
Dibromochloromethane	ND	2		ND	2
1,2-Dibromo-3-chloropropane	ND	2		ND	2
1,2-Dibromoethane	ND	2		ND	2
Dibromomethane	ND	2		ND	2
1,2-Dichlorobenzene	ND	2		ND	2
1,3-Dichlorobenzene	ND	2		ND	2
1,4-Dichlorobenzene	ND	2		ND	2
Dichlorodifluoromethane	ND	2		ND	2
1,1-Dichloroethane	ND	2		ND	2
1,2-Dichloroethane	ND	2		ND	2
1,1-Dichloroethene	111	2		ND	2
cis-1,2-Dichloroethene	3	2		ND	2
trans-1,2-Dichloroethene	ND	2		ND	2
1,2-Dichloropropane	ND	2		ND	2
1,3-Dichloropropane	ND	2		ND	2
2,2-Dichloropropane	ND	2		ND	2
1,1-Dichloropropene	ND	2		ND	2
cis-1,3-Dichloropropene	ND	2		ND	2
trans-1,3-Dichloropropene	ND	2		ND	2
Ethylbenzene	ND	2		ND	2
Hexachlorobutadiene	ND	2		ND	2
Isopropylbenzene	ND	2		ND	2
p-isopropyltoluene	ND	2		ND	2
Methylene chloride	ND	2		ND	2
Naphthalene	ND	2		ND	2
n-Propylbenzene	ND	2		ND	2

Analytical Notes

Note: Analysis performed by Calscience Labs. , Garden Grove CA.

	Sample	Method Blank
Date Sampled:	12/16/95	N/A
Date Analyzed:	12/27/95	12/27/95

(continued on next page)

VOLATILE ORGANICS

Client I.D.: WCC3D-13
Laboratory I.D.: 213525-003
Client: KENNEDY/JENKS

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

(continued from previous page)

Compound	Result (ug/L)	Detection Limit	Analytical Notes	Method Blank	Detection Limit
Styrene	ND	2		ND	2
1,1,1,2-Tetrachloroethane	ND	2		ND	2
1,1,2,2-Tetrachloroethane	ND	2		ND	2
Tetrachloroethene	ND	2		ND	2
Toluene	88	2		ND	2
1,2,3-Trichlorobenzene	ND	2		ND	2
1,2,4-Trichlorobenzene	ND	2		ND	2
1,1,1-Trichloroethane	90	2		ND	2
1,1,2-Trichloroethane	ND	2		ND	2
Trichloroethene	32	2		ND	2
Trichlorofluoromethane	ND	2		ND	2
1,2,3-Trichloropropane	ND	2		ND	2
1,2,4-Trimethylbenzene	ND	2		ND	2
1,3,5-Trimethylbenzene	ND	2		ND	2
Vinyl Chloride	ND	2		ND	2
o-Xylene	ND	2		ND	2
m,p-Xylene	ND	2		ND	2

Analytical Notes

Note: Analysis performed by Calscience Labs. , Garden Grove CA.

Quality Control Data Summary

Surrogate Recovery Data

Compound	Percent Recovery	QC Limits
1,2-Dichloroethane-d4	110	88-110
Toluene-d8	101	86-115
Bromofluorobenzene	104	86-118

Laboratory Control Sample, Matrix Spike/Matrix Spike Duplicate Data

Batch: 12-439 Sample I.D.: BS/BSD

Compounds	Spike Amt. (ug/L)	LCS %Rec.	QC Limits	Spike %Rec.	Spk Dup %Rec.	QC Limits	RPD	QC Limits
1,1-Dichloroethene	50	120	69-127	115	126	69-127	9	25
Benzene	50	108	72-127	102	97	72-127	5	25
Trichloroethene	50	106	60-137	104	117	60-137	12	25
Toluene	50	112	75-124	104	100	75-124	4	25
Chlorobenzene	50	102	72-131	101	100	72-131	1	25

APPENDIX B

LABORATORY/FIELD QUALITY CONTROL DATA SHEETS

VOLATILE ORGANICS

Client I.D.: DW-121595
Laboratory I.D.: 213527-012
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
Benzene	42	2		ND	2
Bromobenzene	ND	2		ND	2
Bromochloromethane	ND	2		ND	2
Bromodichloromethane	ND	2		ND	2
Bromoform	ND	2		ND	2
Bromomethane	ND	2		ND	2
n-Butylbenzene	ND	2		ND	2
sec-Butylbenzene	ND	2		ND	2
tert-Butylbenzene	ND	2		ND	2
Carbon disulfide	ND	2		ND	2
Carbon tetrachloride	ND	2		ND	2
Chlorobenzene	ND	2		ND	2
Chloroethane	ND	2		ND	2
Chloroform	16	2		ND	2
Chloromethane	ND	2		ND	2
2-Chlorotoluene	ND	2		ND	2
4-Chlorotoluene	ND	2		ND	2
Dibromochloromethane	ND	2		ND	2
1,2-Dibromo-3-chloropropane	ND	2		ND	2
1,2-Dibromoethane	ND	2		ND	2
Dibromomethane	ND	2		ND	2
1,2-Dichlorobenzene	ND	2		ND	2
1,3-Dichlorobenzene	ND	2		ND	2
1,4-Dichlorobenzene	ND	2		ND	2
Dichlorodifluoromethane	ND	2		ND	2
1,1-Dichloroethane	26	2		ND	2
1,2-Dichloroethane	ND	2		ND	2
1,1-Dichloroethene	2,800	200	a	ND	2
cis-1,2-Dichloroethene	33	2		ND	2
trans-1,2-Dichloroethene	40	2		ND	2
1,2-Dichloropropane	ND	2		ND	2
1,3-Dichloropropane	ND	2		ND	2
2,2-Dichloropropane	ND	2		ND	2
1,1-Dichloropropene	ND	2		ND	2
cis-1,3-Dichloropropene	ND	2		ND	2
trans-1,3-Dichloropropene	ND	2		ND	2
Ethylbenzene	ND	2		ND	2
Hexachlorobutadiene	ND	2		ND	2
Isopropylbenzene	ND	2		ND	2
p-isopropyltoluene	ND	2		ND	2
Methylene chloride	ND	2		ND	2
Naphthalene	ND	2		ND	2
n-Propylbenzene	ND	2		ND	2

Analytical Notes

Note: Analysis performed by Calscience Labs., Garden Grove CA.

a - Result reported from a 1:100 dilution.

	Sample	Method Blank
Date Sampled:	12/15/95	N/A
Date Analyzed:	12/27/95	12/27/95

(continued on next page)

VOLATILE ORGANICS

Client I.D.: DW-121595
Laboratory I.D.: 213527-012
Client: KENNEDY/JENKS

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

(continued from previous page)

Compound	Result (ug/L)	Detection Limit	Analytical Notes	Method Blank	Detection Limit
Styrene	ND	2		ND	2
1,1,1,2-Tetrachloroethane	ND	2		ND	2
1,1,2,2-Tetrachloroethane	ND	2		ND	2
Tetrachloroethene	ND	2		ND	2
Toluene	ND	2		ND	2
1,2,3-Trichlorobenzene	ND	2		ND	2
1,2,4-Trichlorobenzene	ND	2		ND	2
1,1,1-Trichloroethane	22	2		ND	2
1,1,2-Trichloroethane	ND	2		ND	2
Trichloroethene	2,500	200	a	ND	2
Trichlorofluoromethane	ND	2		ND	2
1,2,3-Trichloropropane	ND	2		ND	2
1,2,4-Trimethylbenzene	ND	2		ND	2
1,3,5-Trimethylbenzene	ND	2		ND	2
Vinyl Chloride	ND	2		ND	2
o-Xylene	ND	2		ND	2
m,p-Xylene	ND	2		ND	2

Analytical Notes

Note: Analysis performed by Calscience Labs. , Garden Grove CA.

a - Result reported from a 1:100 dilution.

Quality Control Data Summary

Surrogate Recovery Data

Compound	Percent Recovery	QC Limits
Toluene-d8	105	88-110
1,4-Bromofluorobenzene	102	86-115
Dibromofluoromethane	100	86-118

Laboratory Control Sample, Matrix Spike/Matrix Spike Duplicate Data
Batch: 12-439 Sample I.D.: BS/BSD

Compounds	Spike Amt. (ug/L)	LCS %Rec.	QC Limits	Spike %Rec.	Spk Dup %Rec.	QC Limits	RPD	QC Limits
1,1-Dichloroethene	50	106	69-127	102	116	69-127	13	25
Benzene	50	110	72-127	99	98	72-127	1	25
Trichloroethene	50	104	60-137	96	99	60-137	3	25
Toluene	50	110	75-124	98	100	75-124	2	25
Chlorobenzene	50	102	72-131	98	96	72-131	2	25

VOLATILE ORGANICS

Client I.D.: EB-121595
Laboratory I.D.: 213527-008
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
Benzene	ND	2		ND	2
Bromobenzene	ND	2		ND	2
Bromochloromethane	ND	2		ND	2
Bromodichloromethane	ND	2		ND	2
Bromoform	ND	2		ND	2
Bromomethane	ND	2		ND	2
n-Butylbenzene	ND	2		ND	2
sec-Butylbenzene	ND	2		ND	2
tert-Butylbenzene	ND	2		ND	2
Carbon disulfide	ND	2		ND	2
Carbon tetrachloride	ND	2		ND	2
Chlorobenzene	ND	2		ND	2
Chloroethane	ND	2		ND	2
Chloroform	ND	2		ND	2
Chloromethane	ND	2		ND	2
2-Chlorotoluene	ND	2		ND	2
4-Chlorotoluene	ND	2		ND	2
Dibromochloromethane	ND	2		ND	2
1,2-Dibromo-3-chloropropane	ND	2		ND	2
1,2-Dibromoethane	ND	2		ND	2
Dibromomethane	ND	2		ND	2
1,2-Dichlorobenzene	ND	2		ND	2
1,3-Dichlorobenzene	ND	2		ND	2
1,4-Dichlorobenzene	ND	2		ND	2
Dichlorodifluoromethane	ND	2		ND	2
1,1-Dichloroethane	ND	2		ND	2
1,2-Dichloroethane	ND	2		ND	2
1,1-Dichloroethene	2	2		ND	2
cis-1,2-Dichloroethene	ND	2		ND	2
trans-1,2-Dichloroethene	ND	2		ND	2
1,2-Dichloropropane	ND	2		ND	2
1,3-Dichloropropane	ND	2		ND	2
2,2-Dichloropropane	ND	2		ND	2
1,1-Dichloropropene	ND	2		ND	2
cis-1,3-Dichloropropene	ND	2		ND	2
trans-1,3-Dichloropropene	ND	2		ND	2
Ethylbenzene	ND	2		ND	2
Hexachlorobutadiene	ND	2		ND	2
Isopropylbenzene	ND	2		ND	2
p-isopropyltoluene	ND	2		ND	2
Methylene chloride	ND	2		ND	2
Naphthalene	ND	2		ND	2
n-Propylbenzene	ND	2		ND	2

Analytical Notes

Note: Analysis performed by Calscience Labs. , Garden Grove CA.

	Sample	Method Blank
Date Sampled:	12/15/95	N/A
Date Analyzed:	12/27/95	12/27/95

(continued on next page)

VOLATILE ORGANICS

Client I.D.: EB-121595
Laboratory I.D.: 213527-008
Client: KENNEDY/JENKS

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

(continued from previous page)

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

Analytical Notes

Note: Analysis performed by Calscience Labs. , Garden Grove CA.

Quality Control Data Summary

Surrogate Recovery Data

Compound	Percent Recovery	QC Limits
Toluene-d8	108	88-110
1,4-Bromofluorobenzene	102	86-115
Dibromofluoromethane	99	86-118

Laboratory Control Sample, Matrix Spike/Matrix Spike Duplicate Data
Batch: 12-439 Sample I.D.: BS/BSD

Compounds	Spike Amt. (ug/L)	LCS %Rec.	QC Limits	Spike %Rec.	Spk Dup %Rec.	QC Limits	RPD	QC Limits
1,1-Dichloroethene	50	106	69-127	102	116	69-127	13	25
Benzene	50	110	72-127	99	98	72-127	1	25
Trichloroethene	50	104	60-137	96	99	60-137	3	25
Toluene	50	110	75-124	98	100	75-124	2	25
Chlorobenzene	50	102	72-131	98	96	72-131	2	25

VOLATILE ORGANICS

Client I.D.: TB-121595
Laboratory I.D.: 213527-009
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
Benzene	ND	2		ND	2
Bromobenzene	ND	2		ND	2
Bromochloromethane	ND	2		ND	2
Bromodichloromethane	ND	2		ND	2
Bromoform	ND	2		ND	2
Bromomethane	ND	2		ND	2
n-Butylbenzene	ND	2		ND	2
sec-Butylbenzene	ND	2		ND	2
tert-Butylbenzene	ND	2		ND	2
Carbon disulfide	ND	2		ND	2
Carbon tetrachloride	ND	2		ND	2
Chlorobenzene	ND	2		ND	2
Chloroethane	ND	2		ND	2
Chloroform	ND	2		ND	2
Chloromethane	ND	2		ND	2
2-Chlorotoluene	ND	2		ND	2
4-Chlorotoluene	ND	2		ND	2
Dibromochloromethane	ND	2		ND	2
1,2-Dibromo-3-chloropropane	ND	2		ND	2
1,2-Dibromoethane	ND	2		ND	2
Dibromomethane	ND	2		ND	2
1,2-Dichlorobenzene	ND	2		ND	2
1,3-Dichlorobenzene	ND	2		ND	2
1,4-Dichlorobenzene	ND	2		ND	2
Dichlorodifluoromethane	ND	2		ND	2
1,1-Dichloroethane	ND	2		ND	2
1,2-Dichloroethane	ND	2		ND	2
1,1-Dichloroethene	ND	2		ND	2
cis-1,2-Dichloroethene	ND	2		ND	2
trans-1,2-Dichloroethene	ND	2		ND	2
1,2-Dichloropropane	ND	2		ND	2
1,3-Dichloropropane	ND	2		ND	2
2,2-Dichloropropane	ND	2		ND	2
1,1-Dichloropropene	ND	2		ND	2
cis-1,3-Dichloropropene	ND	2		ND	2
trans-1,3-Dichloropropene	ND	2		ND	2
Ethylbenzene	ND	2		ND	2
Hexachlorobutadiene	ND	2		ND	2
Isopropylbenzene	ND	2		ND	2
p-isopropyltoluene	ND	2		ND	2
Methylene chloride	ND	2		ND	2
Naphthalene	ND	2		ND	2
n-Propylbenzene	ND	2		ND	2

Analytical Notes

Note: Analysis performed by Calscience Labs., Garden Grove CA.

	Sample	Method Blank
Date Sampled:	12/15/95	N/A
Date Analyzed:	12/27/95	12/27/95

(continued on next page)

VOLATILE ORGANICS

Client I.D.: TB-121595
Laboratory I.D.: 213527-009
Client: KENNEDY/JENKS

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

(continued from previous page)

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

Analytical Notes

Note: Analysis performed by Calscience Labs. , Garden Grove CA.

Quality Control Data Summary

Surrogate Recovery Data

Compound	Percent Recovery	QC Limits
Toluene-d8	108	88-110
1,4-Bromofluorobenzene	102	86-115
Dibromofluoromethane	104	86-118

Laboratory Control Sample, Matrix Spike/Matrix Spike Duplicate Data
Batch: 12-439 Sample I.D.: BS/BSD

Compounds	Spike Amt. (ug/L)	LCS %Rec.	QC Limits	Spike %Rec.	Spk Dup %Rec.	QC Limits	RPD	QC Limits
1,1-Dichloroethene	50	106	69-127	102	116	69-127	13	25
Benzene	50	110	72-127	99	98	72-127	1	25
Trichloroethene	50	104	60-137	96	99	60-137	3	25
Toluene	50	110	75-124	98	100	75-124	2	25
Chlorobenzene	50	102	72-131	98	96	72-131	2	25

ABBREVIATIONS

BS/BSD - Blank Spike / Blank Spike Duplicate

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

CCR - California Code of Regulations.

DHS - California Department of Health Services.

EPA - United States Environmental Protection Agency.

LCS - Laboratory Control Spike

LUFT - Leaking Underground Fuel Tank.

MDL - Method Detection Limit

NA - Not Applicable.

NC - Not Calculable

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

PQL - Practical Quantitation Limit

RPD - Relative percent difference.

STLC - Soluble Threshold Limit Concentration.

Surr. - Surrogates.

TCLP - Toxicity Characteristic Leaching Procedure.

TEH - Total Extractable Petroleum Hydrocarbons.

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

TR~ - Trace, estimated value .

TTLC - Total Threshold Limit Concentration.

TVH - Total Volatile Hydrocarbons.

WET - Waste Extraction Test.

UNITS

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

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

VOLATILE ORGANICS

Client I.D.: RB-121695
Laboratory I.D.: 213525-007
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
Benzene	ND	2		ND	2
Bromobenzene	ND	2		ND	2
Bromochloromethane	ND	2		ND	2
Bromodichloromethane	ND	2		ND	2
Bromoform	ND	2		ND	2
Bromomethane	ND	2		ND	2
n-Butylbenzene	ND	2		ND	2
sec-Butylbenzene	ND	2		ND	2
tert-Butylbenzene	ND	2		ND	2
Carbon disulfide	ND	2		ND	2
Carbon tetrachloride	ND	2		ND	2
Chlorobenzene	ND	2		ND	2
Chloroethane	ND	2		ND	2
Chloroform	ND	2		ND	2
Chloromethane	ND	2		ND	2
2-Chlorotoluene	ND	2		ND	2
4-Chlorotoluene	ND	2		ND	2
Dibromochloromethane	ND	2		ND	2
1,2-Dibromo-3-chloropropane	ND	2		ND	2
1,2-Dibromoethane	ND	2		ND	2
Dibromomethane	ND	2		ND	2
1,2-Dichlorobenzene	ND	2		ND	2
1,3-Dichlorobenzene	ND	2		ND	2
1,4-Dichlorobenzene	ND	2		ND	2
Dichlorodifluoromethane	ND	2		ND	2
1,1-Dichloroethane	ND	2		ND	2
1,2-Dichloroethane	ND	2		ND	2
1,1-Dichloroethene	ND	2		ND	2
cis-1,2-Dichloroethene	ND	2		ND	2
trans-1,2-Dichloroethene	ND	2		ND	2
1,2-Dichloropropane	ND	2		ND	2
1,3-Dichloropropane	ND	2		ND	2
2,2-Dichloropropane	ND	2		ND	2
1,1-Dichloropropene	ND	2		ND	2
cis-1,3-Dichloropropene	ND	2		ND	2
trans-1,3-Dichloropropene	ND	2		ND	2
Ethylbenzene	ND	2		ND	2
Hexachlorobutadiene	ND	2		ND	2
Isopropylbenzene	ND	2		ND	2
p-isopropyltoluene	ND	2		ND	2
Methylene chloride	ND	2		ND	2
Naphthalene	ND	2		ND	2
n-Propylbenzene	ND	2		ND	2

Analytical Notes

Note: Analysis performed by Calscience Labs. , Garden Grove CA.

	Sample	Method Blank
Date Sampled:	12/16/95	N/A
Date Analyzed:	12/27/95	12/27/95

(continued on next page)

VOLATILE ORGANICS

Client I.D.: RB-121695
Laboratory I.D.: 213525-007
Client: KENNEDY/JENKS

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

(continued from previous page)

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

Analytical Notes

Note: Analysis performed by Calscience Labs. , Garden Grove CA.

Quality Control Data Summary

Surrogate Recovery Data

Compound	Percent Recovery	QC Limits
1,2-Dichloroethane-d4	107	88-110
Toluene-d8	103	86-115
Bromofluorobenzene	101	86-118

Laboratory Control Sample, Matrix Spike/Matrix Spike Duplicate Data
Batch: 12-439 Sample I.D.: BS/BSD

Compounds	Spike Amt. (ug/L)	LCS %Rec.	QC Limits	Spike %Rec.	Spk Dup %Rec.	QC Limits	RPD	QC Limits
1,1-Dichloroethene	50	120	69-127	115	126	69-127	9	25
Benzene	50	108	72-127	102	97	72-127	5	25
Trichloroethene	50	106	60-137	104	117	60-137	12	25
Toluene	50	112	75-124	104	100	75-124	4	25
Chlorobenzene	50	102	72-131	101	100	72-131	1	25

VOLATILE ORGANICS

Client I.D.: TB-121695
Laboratory I.D.: 213525-008
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
Benzene	ND	2		ND	2
Bromobenzene	ND	2		ND	2
Bromochloromethane	ND	2		ND	2
Bromodichloromethane	ND	2		ND	2
Bromoform	ND	2		ND	2
Bromomethane	ND	2		ND	2
n-Butylbenzene	ND	2		ND	2
sec-Butylbenzene	ND	2		ND	2
tert-Butylbenzene	ND	2		ND	2
Carbon disulfide	ND	2		ND	2
Carbon tetrachloride	ND	2		ND	2
Chlorobenzene	ND	2		ND	2
Chloroethane	ND	2		ND	2
Chloroform	ND	2		ND	2
Chloromethane	ND	2		ND	2
2-Chlorotoluene	ND	2		ND	2
4-Chlorotoluene	ND	2		ND	2
Dibromochloromethane	ND	2		ND	2
1,2-Dibromo-3-chloropropane	ND	2		ND	2
1,2-Dibromoethane	ND	2		ND	2
Dibromomethane	ND	2		ND	2
1,2-Dichlorobenzene	ND	2		ND	2
1,3-Dichlorobenzene	ND	2		ND	2
1,4-Dichlorobenzene	ND	2		ND	2
Dichlorodifluoromethane	ND	2		ND	2
1,1-Dichloroethane	ND	2		ND	2
1,2-Dichloroethane	ND	2		ND	2
1,1-Dichloroethene	ND	2		ND	2
cis-1,2-Dichloroethene	ND	2		ND	2
trans-1,2-Dichloroethene	ND	2		ND	2
1,2-Dichloropropane	ND	2		ND	2
1,3-Dichloropropane	ND	2		ND	2
2,2-Dichloropropane	ND	2		ND	2
1,1-Dichloropropene	ND	2		ND	2
cis-1,3-Dichloropropene	ND	2		ND	2
trans-1,3-Dichloropropene	ND	2		ND	2
Ethylbenzene	ND	2		ND	2
Hexachlorobutadiene	ND	2		ND	2
Isopropylbenzene	ND	2		ND	2
p-isopropyltoluene	ND	2		ND	2
Methylene chloride	ND	2		ND	2
Naphthalene	ND	2		ND	2
n-Propylbenzene	ND	2		ND	2

Analytical Notes

Note: Analysis performed by Calscience Labs. , Garden Grove CA.

	Sample	Method Blank
Date Sampled:	12/16/95	N/A
Date Analyzed:	12/27/95	12/27/95

(continued on next page)

VOLATILE ORGANICS

Client I.D.: TB-121695
Laboratory I.D.: 213525-008
Client: KENNEDY/JENKS

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

(continued from previous page)

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

Analytical Notes

Note: Analysis performed by Calscience Labs. , Garden Grove CA.

Quality Control Data Summary

Surrogate Recovery Data

Compound	Percent Recovery	QC Limits
1,2-Dichloroethane-d4	109	88-110
Toluene-d8	103	86-115
Bromofluorobenzene	106	86-118

Laboratory Control Sample, Matrix Spike/Matrix Spike Duplicate Data
Batch: 12-439 Sample I.D.: BS/BSD

Compounds	Spike Amt. (ug/L)	LCS %Rec.	QC Limits	Spike %Rec.	Spk Dup %Rec.	QC Limits	RPD	QC Limits
1,1-Dichloroethene	50	120	69-127	115	126	69-127	9	25
Benzene	50	108	72-127	102	97	72-127	5	25
Trichloroethene	50	106	60-137	104	117	60-137	12	25
Toluene	50	112	75-124	104	100	75-124	4	25
Chlorobenzene	50	102	72-131	101	100	72-131	1	25

VOLATILE ORGANICS

Client I.D.: TRIP BLANK
Laboratory I.D.: 213525-009
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
Benzene	ND	2		ND	2
Bromobenzene	ND	2		ND	2
Bromochloromethane	ND	2		ND	2
Bromodichloromethane	ND	2		ND	2
Bromoform	ND	2		ND	2
Bromomethane	ND	2		ND	2
n-Butylbenzene	ND	2		ND	2
sec-Butylbenzene	ND	2		ND	2
tert-Butylbenzene	ND	2		ND	2
Carbon disulfide	ND	2		ND	2
Carbon tetrachloride	ND	2		ND	2
Chlorobenzene	ND	2		ND	2
Chloroethane	ND	2		ND	2
Chloroform	ND	2		ND	2
Chloromethane	ND	2		ND	2
2-Chlorotoluene	ND	2		ND	2
4-Chlorotoluene	ND	2		ND	2
Dibromochloromethane	ND	2		ND	2
1,2-Dibromo-3-chloropropane	ND	2		ND	2
1,2-Dibromoethane	ND	2		ND	2
Dibromomethane	ND	2		ND	2
1,2-Dichlorobenzene	ND	2		ND	2
1,3-Dichlorobenzene	ND	2		ND	2
1,4-Dichlorobenzene	ND	2		ND	2
Dichlorodifluoromethane	ND	2		ND	2
1,1-Dichloroethane	ND	2		ND	2
1,2-Dichloroethane	ND	2		ND	2
1,1-Dichloroethene	ND	2		ND	2
cis-1,2-Dichloroethene	ND	2		ND	2
trans-1,2-Dichloroethene	ND	2		ND	2
1,2-Dichloropropane	ND	2		ND	2
1,3-Dichloropropane	ND	2		ND	2
2,2-Dichloropropane	ND	2		ND	2
1,1-Dichloropropene	ND	2		ND	2
cis-1,3-Dichloropropene	ND	2		ND	2
trans-1,3-Dichloropropene	ND	2		ND	2
Ethylbenzene	ND	2		ND	2
Hexachlorobutadiene	ND	2		ND	2
Isopropylbenzene	ND	2		ND	2
p-isopropyltoluene	ND	2		ND	2
Methylene chloride	ND	2		ND	2
Naphthalene	ND	2		ND	2
n-Propylbenzene	ND	2		ND	2

Analytical Notes

Note: Analysis performed by Calscience Labs., Garden Grove CA.

	Sample	Method Blank
Date Sampled:	12/16/95	N/A
Date Analyzed:	12/27/95	12/27/95

(continued on next page)

VOLATILE ORGANICS

Client I.D.: TRIP BLANK
Laboratory I.D.: 213525-009
Client: KENNEDY/JENKS

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

(continued from previous page)

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

Analytical Notes

Note: Analysis performed by Calscience Labs. , Garden Grove CA.

Quality Control Data Summary

Surrogate Recovery Data

Compound	Percent Recovery	QC Limits
1,2-Dichloroethane-d4	108	88-110
Toluene-d8	103	86-115
Bromofluorobenzene	106	86-118

Laboratory Control Sample, Matrix Spike/Matrix Spike Duplicate Data
Batch: 12-439 Sample I.D.: BS/BSD

Compounds	Spike Amt. (ug/L)	LCS %Rec.	QC Limits	Spike %Rec.	Spk Dup %Rec.	QC Limits	RPD	QC Limits
1,1-Dichloroethene	50	120	69-127	115	126	69-127	9	25
Benzene	50	108	72-127	102	97	72-127	5	25
Trichloroethene	50	106	60-137	104	117	60-137	12	25
Toluene	50	112	75-124	104	100	75-124	4	25
Chlorobenzene	50	102	72-131	101	100	72-131	1	25

APPENDIX C

GROUNDWATER PURGE AND SAMPLE FORMS

Groundwater Purge and Sample Form Date: 12/15/95 **Kennedy/Jenks Consultants**

PROJECT NAME: DAC

WELL NUMBER: WCC-15

PROJECT NUMBER: 944016.01

PERSONNEL: Shane Scrimshire

STATIC WATER LEVEL (FT): 66.75

MEASURING POINT DESCRIPTION: Top of Casing

WATER LEVEL MEASUREMENT METHOD: Elec. Probe

PURGE METHOD: Redi-Flow 2

TIME START PURGE: 1350

PURGE DEPTH (FT) 82'

TIME END PURGE: 1412

TIME SAMPLED: 1417

COMMENTS: -Collected duplicate sample DW-121595 from WCC-15

Began purge at approx. 1gpm to prevent dewatering slow recovering well.

WELL VOLUME CALCULATION (FILL IN BEFORE PURGING)	TOTAL DEPTH (FT)	-	DEPTH TO WATER (FT)	=	WATER COLUMN (FT)	X	MULTIPLIER FOR CASING DIAMETER (IN) 2	4	6	=	X3 = 8 CASING VOLUME (GAL)
	83.40		66.75		16.65		0.16	0.64	1.44		2.59

TIME	1359	1403 ~~1353~~	1405	1409	1412		
VOLUME PURGED (GAL)	1gal.	3gal.	5gal.	6gal.	12gal.		
PURGE RATE (GPM)	1gpm	1gpm	1gpm	1gpm	1gpm		
TEMPERATURE (°C)	73.9	74.6	75.2	74.2	74.6		
pH	7.54	7.34	7.25	7.22	7.20		
SPECIFIC CONDUCTIVITY (micromhos/cm) (uncorrected)	14,270.	18,870.	19,370.	19,350.	19,180		
DISSOLVED OXYGEN (mg/L)							
eH(MV)Pt-AgCl ref.							
TURBIDITY/COLOR	Yel., Tan semi clear	→	V. light Yel semi clear	→	V.V.V light Yel. clear		
ODOR	NO	NO	NO	NO	NO		
DEPTH OF PURGE INTAKE (FT)	82'	82'	82'	82'	82'		
DEPTH TO WATER DURING PURGE (FT)	N.A.	N.A.	N.A.	N.A.	N.A.		
NUMBER OF CASING VOLUMES REMOVED							
DEWATERED?							

N.A. - Not Available

F-43.1 (5-89)

NUMBER: WCC-1S

NNEL: Shane Scrimshire

CC15-13 @ 1417, DW-121595 @

B-121595 @ 1520 (Equip. 131

B-121595 @ 1540 (Transfer 13

WATER LEVEL DATA SHEET

e	Well Elevation	Depth To Water	Water Elevation	Initials	Comments
0		64.36		SCS	89.40
5		63.40		SCS	89.10
0		63.46		SCS	90.20
5		66.45		SCS	88.80
		64.88		SCS	88.90
0		65.32		SCS	89.30
		65.85		SCS	89.60
		66.45		SCS	89.00
0		66.75		SCS	83.40 (2")
		66.76		SCS	135.80
		67.25		SCS	88.10
		67.35		SCS	138.80
		67.25		SCS	89.20
		66.66		SCS	89.35
		68.10		SCS	90.00

Facility D.A.C.

COLOR	SHIPPED UNDER CHAIN-OF-CUSTODY AT 4°C?	ANALYSIS REQUEST (METHOD)	COMMENTS
Clear	Yes	8240 / 8260	
Clear	"	"	
"	"	"	
"	"	"	

n with WCC-1D purgewa

D COMMENTS):

AND LOCK)?: YES NO

slip type only.

Groundwater Purge and Sample Form Date: 12/15/95 **Kennedy/Jenks Consultants**

PROJECT NAME: OAC

WELL NUMBER: WCC-2S

PROJECT NUMBER: 944016.01

PERSONNEL: Shane Scrimshire

STATIC WATER LEVEL (FT): 66.45

MEASURING POINT DESCRIPTION: Top of Casing

WATER LEVEL MEASUREMENT METHOD: Elec. Probe

PURGE METHOD: Redi-Flow 2 pump

TIME START PURGE: 859

PURGE DEPTH (FT) 70'

TIME END PURGE: 912

TIME SAMPLED: 915

COMMENTS: Lowered purgerate to 250 ml/min for sample.

WELL VOLUME CALCULATION (FILL IN BEFORE PURGING)	TOTAL DEPTH (FT)	-	DEPTH TO WATER (FT)	=	WATER COLUMN (FT)	X	MULTIPLIER FOR CASING DIAMETER (IN) 2	4	6	=	X3= 44 CASING VOLUME (GAL)
	88.80		66.45		22.35		0.16	0.64	1.44		14.30

TIME	900	903	906	909	912		
VOLUME PURGED (GAL)	5gal.	15gal.	25 gal.	35gal.	45gal.		
PURGE RATE (GPM)	5gpm	5gpm	5gpm	5gpm	5gpm		
TEMPERATURE (°C)	67.4	69.9	70.3	70.7	70.4		
pH	7.56	7.00	7.26	7.47	7.56		
SPECIFIC CONDUCTIVITY (micromhos/cm) (uncorrected)	3,160.	5,630.	9,600.	9,790.	9,830.		
DISSOLVED OXYGEN (mg/L)							
eH(MV)Pt-AgCl ref.							
TURBIDITY/COLOR	clear	0.0 slight Yel. clear	→	→	clear		
ODOR	NO	NO	NO	NO	NO		
DEPTH OF PURGE INTAKE (FT)	70'	70'	70'	70'	70'		
DEPTH TO WATER DURING PURGE (FT)	66.08 ~~66.00~~	66.22	66.32	66.34	66.36		
NUMBER OF CASING VOLUMES REMOVED							
DEWATERED?							

F-43.1 (5-89)

Groundwater Purge and Sample Form Date: 12/15/95 **Kennedy/Jenks Consul**

PROJECT NAME: DAC WELL NUMBER: WCC-25

PROJECT NUMBER: 944016.01 PERSONNEL: Shane Scrimshire

SAMPLE DATA:

TIME SAMPLED: 915 COMMENTS:

DEPTH SAMPLED (FT): 66.45

SAMPLING EQUIPMENT: Redi-Flow 2 pump

SAMPLE NO.	NO. OF CONTAIN-ERS	CON-TAINER TYPE	PRESER-VATIVE	FIELD FILTRA-TION	VOLUME FILLED (ml or L)	TURBIDITY	COLOR	SHIPPED UNDER CHAIN-OF-CUS-TODY AT 4°C?	ANALYSIS REQUEST (METHOD)	COMMENT
WCC25-3	3	40mL VOA	HCL	—	120mL	—	Clear	Yes	8240/8260	

PURGE WATER DISPOSAL NOTES:

TOTAL DISCHARGE (GAL): 70 COMMENTS:

DISPOSAL METHOD: On site drum storage

DRUM DESIGNATION(S)/VOLUME PER (GAL): 45 gal.

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

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

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

WELL CASING OK?: (YES) NO

COMMENTS:

GENERAL:

WEATHER CONDITIONS: Clear

TEMPERATURE (SPECIFY °C OR °F): 63°F

PROBLEMS ENCOUNTERED DURING PURGING OR SAMPLING? NO

cc: Project Manager: Sarah Bartling
Job File:
Other:

Groundwater Purge and Sample Form Date: 12/16/95 **Kennedy/Jenks Consultants**

PROJECT NAME: DAC

WELL NUMBER: WCC-35

PROJECT NUMBER: 944016.01

PERSONNEL: Shane Scrimshire

STATIC WATER LEVEL (FT): 67.25

MEASURING POINT DESCRIPTION: Top of Casing

WATER LEVEL MEASUREMENT METHOD: Electric Probe

PURGE METHOD: Redi-Flow 2

TIME START PURGE: 1415

PURGE DEPTH (FT) 72'

TIME END PURGE: 1425

TIME SAMPLED: 1427

COMMENTS:

WELL VOLUME CALCULATION (FILL IN BEFORE PURGING)	TOTAL DEPTH (FT)	-	DEPTH TO WATER (FT)	=	WATER COLUMN (FT)	X	MULTIPLIER FOR CASING DIAMETER (IN) 2	4	6	=	X3=40 CASING VOLUME (GAL)
	88.10		67.25		20.85		0.16	0.64	1.44		13.34

TIME	1416	1422	1425				
VOLUME PURGED (GAL)	5gal.	25gal.	45gal.				
PURGE RATE (GPM)	5gpm	5gpm	5gpm				
TEMPERATURE (°C)	Stabilized to within						
pH	10% of previous sample.						
SPECIFIC CONDUCTIVITY (micromhos/cm) (uncorrected)							
DISSOLVED OXYGEN (mg/L)							
eH(MV)Pt-AgCl ref.							
TURBIDITY/COLOR	Clear	Clear	Clear				
ODOR	sour hyd. odor	→					
DEPTH OF PURGE INTAKE (FT)	72'	72'	72'				
DEPTH TO WATER DURING PURGE (FT)							
NUMBER OF CASING VOLUMES REMOVED							
DEWATERED?							

F-43.1 (5-89)

Groundwater Purge and Sample Form Date: 12/16/95 **Kennedy/Jenks Consult**

PROJECT NAME: DAC WELL NUMBER: WCC-3S

PROJECT NUMBER: 944016.00 PERSONNEL: Shane Scrimshire

SAMPLE DATA:

TIME SAMPLED: 1427 COMMENTS:

DEPTH SAMPLED (FT): 72'

SAMPLING EQUIPMENT: Redi-Flow 2

SAMPLE NO.	NO. OF CONTAINERS	CONTAINER TYPE	PRESERVATIVE	FIELD FILTRATION	VOLUME FILLED (ml or L)	TURBIDITY	COLOR	SHIPPED UNDER CHAIN-OF-CUSTODY AT 4°C?	ANALYSIS REQUEST (METHOD)	COMMENTS
WCC3S-13	3	40mL VOA	HCL	—	120mL	—	Clear	Yes	8240/8260	

PURGE WATER DISPOSAL NOTES:

TOTAL DISCHARGE (GAL): 40 gal. COMMENTS:

DISPOSAL METHOD: On site drum storage

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

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

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

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

WELL CASING OK?: (YES) NO

COMMENTS:

GENERAL:

WEATHER CONDITIONS: Clear, Windy <15 mph

TEMPERATURE (SPECIFY °C OR °F): 60°F

PROBLEMS ENCOUNTERED DURING PURGING OR SAMPLING? NO

cc: Project Manager: Sarah Bartling
Job File:
Other:

Groundwater Purge and Sample Form Date: 12/15/95 **Kennedy/Jenks Consultants**

PROJECT NAME: DAC

WELL NUMBER: WCC-4S

PROJECT NUMBER: 944016.01

PERSONNEL: Shane Scrimshire

STATIC WATER LEVEL (FT): 65.85

MEASURING POINT DESCRIPTION: Top of Casing

WATER LEVEL MEASUREMENT METHOD: Elec. Probe

PURGE METHOD: Redi-Flow 2 pump

TIME START PURGE: 1213

PURGE DEPTH (FT) 72'

TIME END PURGE: 1225

TIME SAMPLED: 1230

COMMENTS: Lowered purge rate to 250 mL/min for sample.

WELL VOLUME CALCULATION (FILL IN BEFORE PURGING)	TOTAL DEPTH (FT)	-	DEPTH TO WATER (FT)	=	WATER COLUMN (FT)	X	MULTIPLIER FOR CASING DIAMETER (IN) 2	4	6	=	x3 = 46 CASING VOLUME (GAL)
	89.60		65.85		23.75		0.16	0.64	1.44		15.20

TIME	1215	1217	1221	1223	1225		
VOLUME PURGED (GAL)	5gal.	15gal.	25gal.	35gal.	45gal.		
PURGE RATE (GPM)	5gpm	5gpm					
TEMPERATURE (°C)	74.8	73.7	73.4	73.3	73.1		
pH	7.33 ~~7.4~~	7.27	7.31	7.32	7.31		
SPECIFIC CONDUCTIVITY (micromhos/cm) (uncorrected)	1,772.	1815.	1,660.	1562.	1,473.		
DISSOLVED OXYGEN (mg/L)							
eH(MV)Pt-AgCl ref.							
TURBIDITY/COLOR	Clear	Clear	Clear	Clear	Clear		
ODOR	NO	NO	NO	NO	NO		
DEPTH OF PURGE INTAKE (FT)	72'	72'	72'	72	72		
DEPTH TO WATER DURING PURGE (FT)	66.93	66.95	66.97	66.99	67.0		
NUMBER OF CASING VOLUMES REMOVED							
DEWATERED?							

F-43.1 (5-89)

Groundwater Purge and Sample Form Date: 12/15/95 **Kennedy/Jenks Consul**

PROJECT NAME: DAC WELL NUMBER: WCC-45

PROJECT NUMBER: 944016.01 PERSONNEL: Shane Scrimshire

SAMPLE DATA:

TIME SAMPLED: 1230 COMMENTS:

DEPTH SAMPLED (FT): 72

SAMPLING EQUIPMENT: Redi-Flow

SAMPLE NO.	NO. OF CONTAIN-ERS	CON-TAINER TYPE	PRESER-VATIVE	FIELD FILTRA-TION	VOLUME FILLED (ml or L)	TURBIDITY	COLOR	SHIPPED UNDER CHAIN-OF-CUS-TODY AT 4°C?	ANALYSIS REQUEST (METHOD)	COMMENTS
WCC45-13	3	40mL VOA's	HCL	—	120 mL	—	Clear	YES	8240/8260	

PURGE WATER DISPOSAL NOTES:

TOTAL DISCHARGE (GAL): 45 gal. COMMENTS:

DISPOSAL METHOD: On site drum storage

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

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

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

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

WELL CASING OK?: (YES) NO

COMMENTS:

GENERAL:

WEATHER CONDITIONS: Clear

TEMPERATURE (SPECIFY °C OR °F): 70°F

PROBLEMS ENCOUNTERED DURING PURGING OR SAMPLING? No

cc: Project Manager: Sarah Bartling
Job File:
Other:

Groundwater Purge and Sample Form Date: 12/12/95 **Kennedy/Jenks Consultants**

PROJECT NAME: DAC

WELL NUMBER: WCC-5S

PROJECT NUMBER: 944016.01

PERSONNEL: Shane Scrimshire

STATIC WATER LEVEL (FT): 64.36

MEASURING POINT DESCRIPTION: Top of Casing

WATER LEVEL MEASUREMENT METHOD: Elec. Probe

PURGE METHOD: Redi-Flow 2

TIME START PURGE: 1200

PURGE DEPTH (FT) 75'

TIME END PURGE: 1222

TIME SAMPLED: 1228

COMMENTS: Lowered purgerate to 250 mL/min for sample.

WELL VOLUME CALCULATION (FILL IN BEFORE PURGING)	TOTAL DEPTH (FT)	-	DEPTH TO WATER (FT)	=	WATER COLUMN (FT)	X	MULTIPLIER FOR CASING DIAMETER (IN) 2	4	6	=	x3 = 48 CASING VOLUME (GAL)
	89.40		64.36		25.04		0.16	0.64	1.44		16

TIME	1202	1207	1212	1216	1222		
VOLUME PURGED (GAL)	5gal.	15	25	35	50		
PURGE RATE (GPM)	5gpm	5gpm	5gpm	5gpm	5gpm		
TEMPERATURE (°C)	71.5	71.6	71.1	71.0	70.0		
pH	7.40	6.53	6.28	6.08	6.00		
SPECIFIC CONDUCTIVITY (micromhos/cm) (uncorrected)	1312.	1443	1453.	1434.	1417.		
DISSOLVED OXYGEN (mg/L)							
eH(MV)Pt-AgCl ref.							
TURBIDITY/COLOR	clear	clear	clear	clear	clear		
ODOR	NO	NO	NO	NO	NO		
DEPTH OF PURGE INTAKE (FT)	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: 12/12/95 **Kennedy/Jenks Consu.**

PROJECT NAME: DAC WELL NUMBER: WCC-5S

PROJECT NUMBER: 944016.01 PERSONNEL: Shane Scrimshire

SAMPLE DATA:

TIME SAMPLED: 1228 COMMENTS:

DEPTH SAMPLED (FT): 75'

SAMPLING EQUIPMENT: Redi-Flow

SAMPLE NO.	NO. OF CONTAIN-ERS	CON-TAINER TYPE	PRESER-VATIVE	FIELD FILTRA-TION	VOLUME FILLED (ml or L)	TURBIDITY	COLOR	SHIPPED UNDER CHAIN-OF-CUS-TODY AT 4°C?	ANALYSIS REQUEST (METHOD)	COMMENT
WCC-5S	3	40mL VOA	HCL	—	120mL	—	Clear	Yes	8240/8260	

PURGE WATER DISPOSAL NOTES:

TOTAL DISCHARGE (GAL): 50 gal. COMMENTS:

DISPOSAL METHOD: On site drum storage

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

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

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

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

WELL CASING OK?: (YES) NO

COMMENTS:

GENERAL:

WEATHER CONDITIONS: Overcast + Lightly raining

TEMPERATURE (SPECIFY °C OR °F): 60°F

PROBLEMS ENCOUNTERED DURING PURGING OR SAMPLING? No

cc: Project Manager: Sarah Bartling
Job File:
Other:

Groundwater Purge and Sample Form Date: 12/16/95 **Kennedy/Jenks Consultants**

PROJECT NAME: DAC

WELL NUMBER: WCC-6S

PROJECT NUMBER: 944016.01

PERSONNEL: Shane Scrimshire

STATIC WATER LEVEL (FT): 67.25

MEASURING POINT DESCRIPTION: Top of Casing

WATER LEVEL MEASUREMENT METHOD: Elec. Probe

PURGE METHOD: Redi-Flow 2 pump

TIME START PURGE: 1317

PURGE DEPTH (FT) 80'

TIME END PURGE: 1328

TIME SAMPLED: 1331

COMMENTS: Slowed purgerate to 250 mL/min for sample.

WELL VOLUME CALCULATION (FILL IN BEFORE PURGING)	TOTAL DEPTH (FT)	-	DEPTH TO WATER (FT)	=	WATER COLUMN (FT)	X	MULTIPLIER FOR CASING DIAMETER (IN) 2	4	6	=	x3=42 CASING VOLUME (GAL)
	89.20		67.25		21.95		0.16	0.64	1.44		14.05

TIME	1320	1323	1326	1328			
VOLUME PURGED (GAL)	1.5gal.	2.5gal.	3.5gal.	4.5gal.			
PURGE RATE (GPM)	5gpm	5gpm	5gpm	5gpm			
TEMPERATURE (°C)	68.5	70.8	69.6	69.4			
pH	6.97	6.98	7.01	7.05			
SPECIFIC CONDUCTIVITY (micromhos/cm) (uncorrected)	15,030.	15,460.	15,170	15,220.			
DISSOLVED OXYGEN (mg/L)							
eH(MV)Pt-AgCl ref.							
TURBIDITY/COLOR	Clear	Clear.	Clear	Clear			
ODOR	Sour mud. odor	→	→	→			
DEPTH OF PURGE INTAKE (FT)	80'	80'	80'	80'			
DEPTH TO WATER DURING PURGE (FT)	NA.	NA'	NA.	NA.			
NUMBER OF CASING VOLUMES REMOVED							
DEWATERED?							

F-43.1 (5-89)

Groundwater Purge and Sample Form Date: 12/16/95 **Kennedy/Jenks Consul**

PROJECT NAME: DAC WELL NUMBER: WCC-6S

PROJECT NUMBER: 944016.01 PERSONNEL: Shane Scrimshire

SAMPLE DATA:

TIME SAMPLED: 1331 COMMENTS:

DEPTH SAMPLED (FT): 80'

SAMPLING EQUIPMENT: Redi-Flow 2

SAMPLE NO.	NO. OF CONTAIN-ERS	CON-TAINER TYPE	PRESER-VATIVE	FIELD FILTRA-TION	VOLUME FILLED (ml or L)	TURBIDITY	COLOR	SHIPPED UNDER CHAIN-OF-CUS-TODY AT 4°C?	ANALYSIS REQUEST (METHOD)	COMMENT
WCC6S-13	3	40 mL VOAs	HCL	—	120 mL	—	clear	YES	8240/8260	

PURGE WATER DISPOSAL NOTES:

TOTAL DISCHARGE (GAL): 45 gal. COMMENTS:

DISPOSAL METHOD: On site drum storage

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

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

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

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

WELL CASING OK?: (YES) NO

COMMENTS: Lock + cap cemented together.

GENERAL:

WEATHER CONDITIONS: Clear, windy (15 mph)

TEMPERATURE (SPECIFY °C OR °F): 60°F

PROBLEMS ENCOUNTERED DURING PURGING OR SAMPLING? NO

cc: Project Manager: Sarah Bartling
Job File:
Other:

Groundwater Purge and Sample Form Date: 12/15/95 **Kennedy/Jenks Consultants**

PROJECT NAME: DAC

WELL NUMBER: WCC-7S

PROJECT NUMBER: 944016.01

PERSONNEL: Shane Scrimshire

STATIC WATER LEVEL (FT): 64.88

MEASURING POINT DESCRIPTION: Top of Casing

WATER LEVEL MEASUREMENT METHOD: Elec. Probe

PURGE METHOD: Redi-Flow 2 pump

TIME START PURGE: 1001

PURGE DEPTH (FT) 70'

TIME END PURGE 1012

TIME SAMPLED: 1015

COMMENTS: Lowered purgerated to 250mL/min for sample.

WELL VOLUME CALCULATION (FILL IN BEFORE PURGING)	TOTAL DEPTH (FT)	-	DEPTH TO WATER (FT)	=	WATER COLUMN (FT)	X	MULTIPLIER FOR CASING DIAMETER (IN) 2	4	6	=	x3=46 CASING VOLUME (GAL)
	88.90		64.88		24.02		0.16	0.64	1.44		15.37

TIME	1002	1006	1008	1010	1012		
VOLUME PURGED (GAL)	5gal.	15gal.	25gal.	35gal	45gal.		
PURGE RATE (GPM)	5gpm	5gpm	5gpm	5gpm	5gpm		
TEMPERATURE (°C)	75.3	74.0	73.6	73.5	73.5		
pH	7.60	7.34	7.30	7.30	7.31		
SPECIFIC CONDUCTIVITY (micromhos/cm) (uncorrected)	1967.	1724.	1615.	1489.	1410.		
DISSOLVED OXYGEN (mg/L)							
eH(MV)Pt-AgCl ref.							
TURBIDITY/COLOR	Clear	Clear	Clear	Clear	Clear		
ODOR	NO	NO	NO	NO	NO		
DEPTH OF PURGE INTAKE (FT)	70'	70'	70'	70'	70'		
DEPTH TO WATER DURING PURGE (FT)	65.97	66.05	66.05	66.05	66.05		
NUMBER OF CASING VOLUMES REMOVED							
DEWATERED?							

F-43.1 (5-89)

Groundwater Purge and Sample Form Date: 12/15/95 **Kennedy/Jenks Consult**

PROJECT NAME: DAC WELL NUMBER: WCC-7S

PROJECT NUMBER: 944016.01 PERSONNEL: Shane Scrimshire

SAMPLE DATA:

TIME SAMPLED: 1015 COMMENTS:

DEPTH SAMPLED (FT): 70'

SAMPLING EQUIPMENT: Redi-Flow 2

SAMPLE NO.	NO. OF CONTAIN-ERS	CON-TAINER TYPE	PRESER-VATIVE	FIELD FILTRA-TION	VOLUME FILLED (ml or L)	TURBIDITY	COLOR	SHIPPED UNDER CHAIN-OF-CUS-TODY AT 4°C?	ANALYSIS REQUEST (METHOD)	COMMENTS
WCC7S-13	3	40mL VOAs	HCL	—	120 mL	—	Clear	Yes	8240/8260	

PURGE WATER DISPOSAL NOTES:

TOTAL DISCHARGE (GAL): 45 gal. COMMENTS:

DISPOSAL METHOD: On site drum storage

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

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

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

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

WELL CASING OK?: (YES) NO

COMMENTS:

GENERAL:

WEATHER CONDITIONS: Clear

TEMPERATURE (SPECIFY °C OR °F): 68 °F

PROBLEMS ENCOUNTERED DURING PURGING OR SAMPLING? No

cc: Project Manager: Sarah Bartling
Job File:
Other:

Groundwater Purge and Sample Form Date: 12/15/95 **Kennedy/Jenks Consultants**

PROJECT NAME: DAC WELL NUMBER: WCC-85

PROJECT NUMBER: 944016.01 PERSONNEL: Shane Scrimshire

STATIC WATER LEVEL (FT): 66.45 MEASURING POINT DESCRIPTION: Top of Casing

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

TIME START PURGE: 1300 PURGE DEPTH (FT) 72'

TIME END PURGE: 1312

TIME SAMPLED: 1315

COMMENTS: Lowered purgerate to 250 mL/min for sample.

WELL VOLUME CALCULATION (FILL IN BEFORE PURGING)	TOTAL DEPTH (FT)	-	DEPTH TO WATER (FT)	=	WATER COLUMN (FT)	X	MULTIPLIER FOR CASING DIAMETER (IN) 2	4	6	=	X3=43 CASING VOLUME (GAL)
	89.00		66.45		22.55		0.16	0.64	1.44		1443

TIME	1302	1305	1308	1310	1312		
VOLUME PURGED (GAL)	5gal.	5gal.	5gal.	35gal.	45gal.		
PURGE RATE (GPM)	5gpm	5gpm	5gpm	5gpm	5gpm		
TEMPERATURE (°C)	74.6	73.1	72.9	72.8	72.8		
pH	7.04	6.97	6.96	6.97	6.95		
SPECIFIC CONDUCTIVITY (micromhos/cm) (uncorrected)	19,590	19,220.	19,150.	19,180.	19,110.		
DISSOLVED OXYGEN (mg/L)							
eH(MV)Pt-AgCl ref.							
TURBIDITY/COLOR	Clear	Clear	Clear	Clear	Clear		
ODOR	NO	NO	NO	NO	NO		
DEPTH OF PURGE INTAKE (FT)	72'	72'	72'	72'	72'		
DEPTH TO WATER DURING PURGE (FT)	67.60	68.15	68.28	68.34	68.40		
NUMBER OF CASING VOLUMES REMOVED							
DEWATERED?							

F-43.1 (5-89)

BOE-C6-0120863

Groundwater Purge and Sample Form Date: 12/15/95 **Kennedy/Jenks Consu**

PROJECT NAME: DAC WELL NUMBER: WCC-8S

PROJECT NUMBER: 944016.01 PERSONNEL: Shane Scrimshire

SAMPLE DATA:

TIME SAMPLED: 1315 COMMENTS:

DEPTH SAMPLED (FT): 66.45

SAMPLING EQUIPMENT: Redi-Flow 2

SAMPLE NO.	NO. OF CONTAIN-ERS	CON-TAINER TYPE	PRESER-VATIVE	FIELD FILTRA-TION	VOLUME FILLED (ml or L)	TURBIDITY	COLOR	SHIPPED UNDER CHAIN-OF-CUS-TODY AT 4°C?	ANALYSIS REQUEST (METHOD)	COMMENT
WCC8S-13	3	40mL VOA	HCL	—	120mL	—	Clear	Yes	8240/8260	

PURGE WATER DISPOSAL NOTES:

TOTAL DISCHARGE (GAL): 45 gal. COMMENTS:

DISPOSAL METHOD: On site drum storage

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

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

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

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

WELL CASING OK?: (YES) NO

COMMENTS:

GENERAL:

WEATHER CONDITIONS: Clear

TEMPERATURE (SPECIFY °C OR °F): 70°F

PROBLEMS ENCOUNTERED DURING PURGING OR SAMPLING? No

cc: Project Manager: Sarah Bartling
Job File:
Other:

Groundwater Purge and Sample Form Date: 12/12/95 **Kennedy/Jenks Consultants**

PROJECT NAME: DAC

WELL NUMBER: WCC-9S

PROJECT NUMBER: 944016.01

PERSONNEL: Shane Scrimshire

STATIC WATER LEVEL (FT): 63.40

MEASURING POINT DESCRIPTION: Top of Casing

WATER LEVEL MEASUREMENT METHOD: Electric Probe

PURGE METHOD: Redi-Flow 2 pump

TIME START PURGE: 1408

PURGE DEPTH (FT) 70'

TIME END PURGE: 1428

TIME SAMPLED: 1431

COMMENTS: Lowered purgerate to 250 mL/min for sample.

WELL VOLUME CALCULATION (FILL IN BEFORE PURGING)	TOTAL DEPTH (FT)	-	DEPTH TO WATER (FT)	=	WATER COLUMN (FT)	X	MULTIPLIER FOR CASING DIAMETER (IN) 2	4	6	=	X3=50 CASING VOLUME (GAL)
	89.10		63.40		25.60		0.16	0.64	1.44		16.38

TIME	1410	1414	1418	1421	1426	1428	
VOLUME PURGED (GAL)	5gal.	15gal.	25gal.	35gal.	50gal.	55gal.	
PURGE RATE (GPM)	5gpm	5gpm	5gpm	5gpm			
TEMPERATURE (°C)	68.8	69.2	69.7	70.6	68.9	70.3	
pH	6.48	7.21	7.26	7.27	7.40	7.35	
SPECIFIC CONDUCTIVITY (micromhos/cm) (uncorrected)	1374	1562.	1171.	1129.	1091.	1113.	
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)	70'	70'	70'	70'	70'	70'	
DEPTH TO WATER DURING PURGE (FT)	64.60	64.65	64.70	64.67	64.70	64.70	
NUMBER OF CASING VOLUMES REMOVED							
DEWATERED?							

F-43.1 (5-89)

Groundwater Purge and Sample Form Date: 12/12/95 **Kennedy/Jenks Consul**

PROJECT NAME: DAC WELL NUMBER: WCC

PROJECT NUMBER: 944016.01 PERSONNEL: Shane Scrimshire

SAMPLE DATA:

TIME SAMPLED: 1431 COMMENTS:

DEPTH SAMPLED (FT): 70'

SAMPLING EQUIPMENT: Redi-Flow 2 pump

SAMPLE NO.	NO. OF CONTAIN-ERS	CON-TAINER TYPE	PRESER-VATIVE	FIELD FILTRA-TION	VOLUME FILLED (ml or L)	TURBIDITY	COLOR	SHIPPED UNDER CHAIN-OF-CUS-TODY AT 4°C?	ANALYSIS REQUEST (METHOD)	COMMENT
~~WCC125~~ 15 WCC95-13	3	40mL VOA	HCL	—	120mL	—	clear	Yes	8240/ 8260	

PURGE WATER DISPOSAL NOTES:

TOTAL DISCHARGE (GAL): 55 gal. COMMENTS:

DISPOSAL METHOD: On site drum storage

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

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

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

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

WELL CASING OK?: YES NO

COMMENTS: * Locking well cap is loose but lockable.

GENERAL:

WEATHER CONDITIONS: Overcast, ~~Drizzly~~ Drizzely

TEMPERATURE (SPECIFY °C OR °F): 62°F

PROBLEMS ENCOUNTERED DURING PURGING OR SAMPLING? NO

cc: Project Manager: Sarah Bartling
Job File:
Other:

Groundwater Purge and Sample Form Date: 12/16/95 **Kennedy/Jenks Consultants**

PROJECT NAME: DAC

WELL NUMBER: ~~WCC-108~~ WCC-10S

PROJECT NUMBER: 944016.01

PERSONNEL: Shane Scrimshire

STATIC WATER LEVEL (FT): 66.66

MEASURING POINT DESCRIPTION: Top of Casing

WATER LEVEL MEASUREMENT METHOD: Elec. Probe

PURGE METHOD: Redi-Flow 2 pump

TIME START PURGE: 1017

PURGE DEPTH (FT) 70'

TIME END PURGE: 1028

TIME SAMPLED: 1032

COMMENTS: Lowered purgerate to 250 mL/min For sample.

WELL VOLUME CALCULATION (FILL IN BEFORE PURGING)	TOTAL DEPTH (FT)	-	DEPTH TO WATER (FT)	=	WATER COLUMN (FT)	X	MULTIPLIER FOR CASING DIAMETER (IN) 2	4	6	=	X3=44 CASING VOLUME (GAL)
	89.35		66.66		22.69		0.16	0.64	1.44		14.52

TIME	1018	1021	1024	1026	1028		
VOLUME PURGED (GAL)	5gal.	15gal.	25gal.	35gal.	45gal.		
PURGE RATE (GPM)	5gpm	5gpm	5gpm	5gpm	5gpm		
TEMPERATURE (°C)	67.3	69.0	69.2	69.3	65.6		
pH	8.76	7.50	7.31	7.32	7.33		
SPECIFIC CONDUCTIVITY (micromhos/cm) (uncorrected)	4,320.	9,590.	9,680.	9,750.	9680.		
DISSOLVED OXYGEN (mg/L)							
eH(MV)Pt-AgCl ref.							
TURBIDITY/COLOR	Clear	Clear	Clear	Clear	Clear		
ODOR	NO	NO	NO	NO	NO		
DEPTH OF PURGE INTAKE (FT)	70'	75'	75'	75'	75'		
DEPTH TO WATER DURING PURGE (FT)	68.63	68.82	69.02	69.10	69.18		
NUMBER OF CASING VOLUMES REMOVED							
DEWATERED?							

F-43.1 (5-89)

Groundwater Purge and Sample Form Date: 12/16/95 **Kennedy/Jenks Consul**

PROJECT NAME: DAC WELL NUMBER: WCC-10S

PROJECT NUMBER: 944016.01 PERSONNEL: Shane Scrimshire

SAMPLE DATA:

TIME SAMPLED: 1032 COMMENTS:

DEPTH SAMPLED (FT): 75'

SAMPLING EQUIPMENT: Redi-Flow 2

SAMPLE NO.	NO. OF CONTAIN-ERS	CON-TAINER TYPE	PRESER-VATIVE	FIELD FILTRA-TION	VOLUME FILLED (ml or L)	TURBIDITY	COLOR	SHIPPED UNDER CHAIN-OF-CUS-TODY AT 4°C?	ANALYSIS REQUEST (METHOD)	COMMENTS
WCC10S-13	3	40 mL VOA	HCL	—	120 mL	—	Clear	YES	8240/8260	

PURGE WATER DISPOSAL NOTES:

TOTAL DISCHARGE (GAL): 45 gal. COMMENTS:

DISPOSAL METHOD: On site drum storage

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

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

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

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

WELL CASING OK?: (YES) NO

COMMENTS:

GENERAL:

WEATHER CONDITIONS: Clear

TEMPERATURE (SPECIFY °C OR °F): 63°F

PROBLEMS ENCOUNTERED DURING PURGING OR SAMPLING? No

cc: Project Manager: Sarah Bartling
Job File:
Other:

Groundwater Purge and Sample Form Date: 12/15/95 **Kennedy/Jenks Consultants**

PROJECT NAME: DAC WELL NUMBER: WCC-11S

PROJECT NUMBER: 944016.01 PERSONNEL: Shane Scrimshire

STATIC WATER LEVEL (FT): 65.32 MEASURING POINT DESCRIPTION: Top of Casing

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

TIME START PURGE: 1101 PURGE DEPTH (FT) 72'

TIME END PURGE: 1114

TIME SAMPLED: 1116

COMMENTS: Lowered purgerate to 250 mL/min for sample.

WELL VOLUME CALCULATION (FILL IN BEFORE PURGING)	TOTAL DEPTH (FT)	-	DEPTH TO WATER (FT)	=	WATER COLUMN (FT)	X	MULTIPLIER FOR CASING DIAMETER (IN) 2	4	6	=	x3 = 46 CASING VOLUME (GAL)
	89.30		65.32		23.98 ~~89.30~~		0.16	0.64	1.44		15.34

TIME	1102	1105	1107	1110	1114		
VOLUME PURGED (GAL)	5gal.	15gal.	25gal.	35gal.	45gal.		
PURGE RATE (GPM)	5gpm	5gpm	5gpm	5gpm	5gpm		
TEMPERATURE (°C)	77.1	72.9	71.7	71.8	71.1		
pH	7.46	7.35 ~~7.4~~	7.33	7.31	7.34		
SPECIFIC CONDUCTIVITY (micromhos/cm) (uncorrected)	1337.	1398.	1408.	1424.	1400.		
DISSOLVED OXYGEN (mg/L)							
eH(MV)Pt-AgCl ref.							
TURBIDITY/COLOR	Clear	Clear	Clear	Clear	Clear		
ODOR	NO	NO	NO	NO	NO		
DEPTH OF PURGE INTAKE (FT)	72'	72'	72'	72'	72'		
DEPTH TO WATER DURING PURGE (FT)	NA.	NA.	NA.	NA.	NA.		
NUMBER OF CASING VOLUMES REMOVED							
DEWATERED?							

F-43.1 (5-89) N.A. - Not Available

Groundwater Purge and Sample Form Date: 12/15/95 **Kennedy/Jenks Consul**

PROJECT NAME: DAC WELL NUMBER: WCC-11S

PROJECT NUMBER: 944016.01 PERSONNEL: Shane Scrimshire

SAMPLE DATA:

TIME SAMPLED: 1116 COMMENTS:

DEPTH SAMPLED (FT): 72'

SAMPLING EQUIPMENT: Redi-Flow 2

SAMPLE NO.	NO. OF CONTAIN-ERS	CON-TAINER TYPE	PRESER-VATIVE	FIELD FILTRA-TION	VOLUME FILLED (ml or L)	TURBIDITY	COLOR	SHIPPED UNDER CHAIN-OF-CUS-TODY AT 4°C?	ANALYSIS REQUEST (METHOD)	COMMENTS
WCC11S-13	3	40mL VOAs	HCL	—	120mL	—	Clear	Yes	8240/~~8260~~	

PURGE WATER DISPOSAL NOTES:

TOTAL DISCHARGE (GAL): 45gal. COMMENTS:

DISPOSAL METHOD: on site drum storage

DRUM DESIGNATION(S)/VOLUME PER (GAL): 45gal.

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

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

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

WELL CASING OK?: (YES) NO

COMMENTS:

GENERAL:

WEATHER CONDITIONS: Clear

TEMPERATURE (SPECIFY °C OR °F): 69°F

PROBLEMS ENCOUNTERED DURING PURGING OR SAMPLING? No

cc: Project Manager: Sarah Bartling
Job File:
Other:

Groundwater Purge and Sample Form Date: 12/15/95 **Kennedy/Jenks Consultants**

PROJECT NAME: DAC

WELL NUMBER: WCG125

PROJECT NUMBER: 944016.01

PERSONNEL: Shane Scrimshire

STATIC WATER LEVEL (FT): 63.46

MEASURING POINT DESCRIPTION: Top of Casing

WATER LEVEL MEASUREMENT METHOD: Electric Probe

PURGE METHOD: Redi-Flow 2 pump

TIME START PURGE: 800

PURGE DEPTH (FT) 73'

TIME END PURGE: 813

TIME SAMPLED: 816

COMMENTS: Lowered purgerate to 250 ml/min for sample.

WELL VOLUME CALCULATION (FILL IN BEFORE PURGING)	TOTAL DEPTH (FT)	-	DEPTH TO WATER (FT)	=	WATER COLUMN (FT)	X	MULTIPLIER FOR CASING DIAMETER (IN) 2	4	6	=	X= 51 gal. CASING VOLUME (GAL)
	90.20		63.46		26.74		0.16	0.64	1.44		17.11

TIME	802	804	806	810	813		
VOLUME PURGED (GAL)	5gal.	15gal.	25gal.	40	51gal.		
PURGE RATE (GPM)	5gpm	5gpm	5gpm	5gpm			
TEMPERATURE (°C)	65.9	70.4	71.6	71.8	71.6		
pH	8.05	7.60	7.48	7.47	7.47		
SPECIFIC CONDUCTIVITY (micromhos/cm) (uncorrected)	3960.	519.	1186.	1162.	1154.		
DISSOLVED OXYGEN (mg/L)							
eH(MV)Pt-AgCl ref.							
TURBIDITY/COLOR	Clear	Clear	Clear	Clear	Clear		
ODOR	NO	NO	NO	NO	NO		
DEPTH OF PURGE INTAKE (FT)	73'	73'	73'	73'	73'		
DEPTH TO WATER DURING PURGE (FT)	65.70	65.85	65.89	65.88			
NUMBER OF CASING VOLUMES REMOVED							
DEWATERED?							

F-43.1 (5-89)

Groundwater Purge and Sample Form Date: 12/15/95 **Kennedy/Jenks Consult**

PROJECT NAME: DAC WELL NUMBER: WCC-12S

PROJECT NUMBER: 944016.01 PERSONNEL: Shane Scrimshire

SAMPLE DATA:

TIME SAMPLED: 816 COMMENTS:

DEPTH SAMPLED (FT): 73'

SAMPLING EQUIPMENT: Redi-Flow 2

SAMPLE NO.	NO. OF CONTAIN-ERS	CON-TAINER TYPE	PRESER-VATIVE	FIELD FILTRA-TION	VOLUME FILLED (ml or L)	TURBIDITY	COLOR	SHIPPED UNDER CHAIN-OF-CUS-TODY AT 4°C?	ANALYSIS REQUEST (METHOD)	COMMENTS
WCC2S-13	3	40 mL VOA's	HCL	—	120mL	—	Clear	YES	8240/8260	

PURGE WATER DISPOSAL NOTES:

TOTAL DISCHARGE (GAL): 51gal. COMMENTS:

DISPOSAL METHOD: On site drum storage

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

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

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

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

WELL CASING OK?: (YES) NO

COMMENTS: - no bolt holes in custom (DAC made) lid.

GENERAL:

WEATHER CONDITIONS: Clear

TEMPERATURE (SPECIFY °C OR °F): 62°F

PROBLEMS ENCOUNTERED DURING PURGING OR SAMPLING? No

cc: Project Manager: Sarah Bartling
Job File:
Other:

Groundwater Purge and Sample Form Date: 12/16/95 **Kennedy/Jenks Consultants**

PROJECT NAME: DAC

WELL NUMBER: DAC-P1

PROJECT NUMBER: 944016.01

PERSONNEL: Shane Scrimshire

STATIC WATER LEVEL (FT): 68.10

MEASURING POINT DESCRIPTION: Top of Casing

WATER LEVEL MEASUREMENT METHOD: Elec. Probe

PURGE METHOD: Redi-Flow 2

TIME START PURGE: 1615

PURGE DEPTH (FT) 89'

TIME END PURGE: 1631

TIME SAMPLED: 1633

COMMENTS:

WELL VOLUME CALCULATION (FILL IN BEFORE PURGING)	TOTAL DEPTH (FT)	-	DEPTH TO WATER (FT)	=	WATER COLUMN (FT)	X	MULTIPLIER FOR CASING DIAMETER (IN) 2	4	6	=	x3 = 42 CASING VOLUME (GAL)
	90.00		68.10		21.90		0.16	0.64	1.44		14

TIME	1617	1627	1631				
VOLUME PURGED (GAL)	5gal.	25gal.	45gal				
PURGE RATE (GPM)	2gpm	2gpm	2gpm				
TEMPERATURE (°C)							
pH	Parameters stabilized						
SPECIFIC CONDUCTIVITY (micromhos/cm) (uncorrected)	to within 10%		of previous				
	sample.						
DISSOLVED OXYGEN (mg/L)							
eH(MV)Pt-AgCl ref.							
TURBIDITY/COLOR	Clear	v.v. lightly cloudy	Clear				
ODOR	NO	NO	NO				
DEPTH OF PURGE INTAKE (FT)	89'	89'	89'				
DEPTH TO WATER DURING PURGE (FT)	73'	75'	78'				
NUMBER OF CASING VOLUMES REMOVED							
DEWATERED?							

F-43.1 (5-89)

Groundwater Purge and Sample Form Date: 12/16/95 **Kennedy/Jenks Consu**

PROJECT NAME: DAC WELL NUMBER: DAC-P1

PROJECT NUMBER: 944016.01 PERSONNEL: Shane Scrimshire

SAMPLE DATA:

TIME SAMPLED: 1633 COMMENTS: RB-121695 (Rinsate Blank) @ 1

DEPTH SAMPLED (FT): 89' TB-121695 (Transfer Blank) @ 1650

SAMPLING EQUIPMENT: Redi-Flow 2

SAMPLE NO.	NO. OF CONTAIN-ERS	CON-TAINER TYPE	PRESER-VATIVE	FIELD FILTRA-TION	VOLUME FILLED (ml or L)	TURBIDITY	COLOR	SHIPPED UNDER CHAIN-OF-CUS-TODY AT 4°C?	ANALYSIS REQUEST (METHOD)	COMMENT
DACP1-13	3	40mL VOA	HCL	—	120mL	—	Clear	Yes	8240/8260	
RB-121695	"	"	"	—	"	—	Clear	"	"	
TB-121695	"	"	"	—	"	—	Clear	"	"	

PURGE WATER DISPOSAL NOTES:

TOTAL DISCHARGE (GAL): 45gal. COMMENTS:

DISPOSAL METHOD: On site drum storage

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

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

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

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

WELL CASING OK?: (YES) NO

COMMENTS:

GENERAL:

WEATHER CONDITIONS: Clear, Windy >15 mph

TEMPERATURE (SPECIFY °C OR °F): 60°F

PROBLEMS ENCOUNTERED DURING PURGING OR SAMPLING? No

cc: Project Manager: Sarah Bartling
Job File:
Other:

Groundwater Purge and Sample Form Date: 12/16/95 **Kennedy/Jenks Consultants**

PROJECT NAME: DAC

WELL NUMBER: ~~WCC-2D~~ WCC-1D

PROJECT NUMBER: 944016.01

PERSONNEL: Shane Scrimshire

STATIC WATER LEVEL (FT): 66.76

MEASURING POINT DESCRIPTION: Top of Casing

WATER LEVEL MEASUREMENT METHOD: Elec. Probe

PURGE METHOD: Redi-Flow 2

TIME START PURGE: 835

PURGE DEPTH (FT)

TIME END PURGE: 905

TIME SAMPLED: 907

COMMENTS: Lowered purgerate to 250 mL/min for sample.

WELL VOLUME CALCULATION (FILL IN BEFORE PURGING)	TOTAL DEPTH (FT)	-	DEPTH TO WATER (FT)	=	WATER COLUMN (FT)	X	MULTIPLIER FOR CASING DIAMETER (IN) 2	4	6	=	x3 = 132 CASING VOLUME (GAL)
	135.80		66.76		69.04		0.16	0.64	1.44		44

TIME	835	839	848	858	903	905	
VOLUME PURGED (GAL)	~~0~~ 5	20	60	100	120	130	
PURGE RATE (GPM)	10gpm ~~5gpm~~	5gpm	5gpm	5gpm	5gpm	5gpm	
TEMPERATURE (°C)	61.8	67.4	67.0	66.1	68.2	67.7	
pH	8.71	7.23	7.61	7.76	7.73	7.75	
SPECIFIC CONDUCTIVITY (micromhos/cm) (uncorrected)	4,520.	7,430.	7,810.	7,200.	7,320.	7,220.	
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)	85'	85'	85'	85'	85'	85'	
DEPTH TO WATER DURING PURGE (FT)	75'	72.5	73.05	73.12	73.16	73.20	
NUMBER OF CASING VOLUMES REMOVED							
DEWATERED?							

F-43.1 (5-89)

Groundwater Purge and Sample Form Date: 12/16/95 **Kennedy/Jenks Consu**

PROJECT NAME: DAC WELL NUMBER: WCC-1D

PROJECT NUMBER: 944016.01 PERSONNEL: Shane Scrimshire

SAMPLE DATA:

TIME SAMPLED: 907 COMMENTS:

DEPTH SAMPLED (FT): 66.76

SAMPLING EQUIPMENT: Redi-Flow 2

SAMPLE NO.	NO. OF CONTAIN-ERS	CON-TAINER TYPE	PRESER-VATIVE	FIELD FILTRA-TION	VOLUME FILLED (ml or L)	TURBIDITY	COLOR	SHIPPED UNDER CHAIN-OF-CUS-TODY AT 4°C?	ANALYSIS REQUEST (METHOD)	COMMEN
WCC1D-13	3	40mL VOA	HCL	—	120mL	—	Clear	Yes	8240/8260	

PURGE WATER DISPOSAL NOTES:

TOTAL DISCHARGE (GAL): 130 gal. COMMENTS: 1 Drum shared with purge

DISPOSAL METHOD: On site drum storage From WCC-1S.

DRUM DESIGNATION(S)/VOLUME PER (GAL): 3 drums. -

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

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

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

WELL CASING OK?: (YES) NO

COMMENTS:

GENERAL:

WEATHER CONDITIONS: Clear

TEMPERATURE (SPECIFY °C OR °F): 61°F

PROBLEMS ENCOUNTERED DURING PURGING OR SAMPLING? NO

cc: Project Manager: Sarah Bartling
Job File:
Other:

Groundwater Purge and Sample Form Date: 12/16/95 **Kennedy/Jenks Consultants**

PROJECT NAME: BAC

WELL NUMBER: WCC-3D

PROJECT NUMBER: 944016.01

PERSONNEL: Shane Scrimshire

STATIC WATER LEVEL (FT): 67.35

MEASURING POINT DESCRIPTION: Top of Casing

WATER LEVEL MEASUREMENT METHOD: Elec. Probe

PURGE METHOD: Redi-Flow 2 pump

TIME START PURGE: 1120

PURGE DEPTH (FT)

TIME END PURGE: 1234

TIME SAMPLED: ~~1336~~ 1236

COMMENTS:

WELL VOLUME CALCULATION (FILL IN BEFORE PURGING)	TOTAL DEPTH (FT)	-	DEPTH TO WATER (FT)	=	WATER COLUMN (FT)	X	MULTIPLIER FOR CASING DIAMETER (IN) 2	4	6	=	X3=137 CASING VOLUME (GAL)
	138.80		67.35		71.45		0.16	0.64	1.44		45.72

TIME	1122	1135	1155	1222	1228	1234	
VOLUME PURGED (GAL)	5gal.	20gal.	60gal.	120	130	140	
PURGE RATE (GPM)	5gpm	2gpm	2gpm	2gpm	2gpm	2gpm	
TEMPERATURE (°C)	64.5	64.1	67.8	66.4	67.9	67.6	
pH	7.86	7.52	7.66	7.72	7.68	7.73	
SPECIFIC CONDUCTIVITY (micromhos/cm) (uncorrected)	7,080.	7,110.	7,270.	7,170.	7,250. ~~7,320~~	7,250.	
DISSOLVED OXYGEN (mg/L)							
eH(MV)Pt-AgCl ref.							
TURBIDITY/COLOR	Clear	Clear	Clear	Clear	Clear	Clear	
ODOR	NO	Hyd. odor Yes	NO	NO	NO	NO	
DEPTH OF PURGE INTAKE (FT)	85'	110'	110'	110'	110'	110'	
DEPTH TO WATER DURING PURGE (FT)	70.0'	83.00	86.90	87.10	87.10	87.10	
NUMBER OF CASING VOLUMES REMOVED							
DEWATERED?							

F-43.1 (5-89)

Groundwater Purge and Sample Form Date: 12/16/95 **Kennedy/Jenks Consu**

PROJECT NAME: DAC WELL NUMBER: WCC-3D

PROJECT NUMBER: 944016.01 PERSONNEL: Shane Scrimshire

SAMPLE DATA:

TIME SAMPLED: 1236 COMMENTS:

DEPTH SAMPLED (FT): 110'

SAMPLING EQUIPMENT: Redi-Flow 2

SAMPLE NO.	NO. OF CONTAIN-ERS	CON-TAINER TYPE	PRESER-VATIVE	FIELD FILTRA-TION	VOLUME FILLED (ml or L)	TURBIDITY	COLOR	SHIPPED UNDER CHAIN-OF-CUS-TODY AT 4°C?	ANALYSIS REQUEST (METHOD)	COMMEN
WCC3213	3	40mL VOA	HCL	—	120mL	—	Clear	YES	8240/8260	

PURGE WATER DISPOSAL NOTES:

TOTAL DISCHARGE (GAL): ~~130 gal.~~ 140 gal. COMMENTS:

DISPOSAL METHOD: On site drum storage

DRUM DESIGNATION(S)/VOLUME PER (GAL): 3 drums

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

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

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

WELL CASING OK?: (YES) NO

COMMENTS:

GENERAL:

WEATHER CONDITIONS: Clear, Windy (15+ mph)

TEMPERATURE (SPECIFY °C OR °F): 62°F

PROBLEMS ENCOUNTERED DURING PURGING OR SAMPLING? No

cc: Project Manager: Sarah Bartling
Job File:
Other:

F-43.2 (5-89)

Groundwater Purge and Sample Form Date: 12/15/95 **Kennedy/Jenks Consultants**

PROJECT NAME: DAC

WELL NUMBER: WCC-15

PROJECT NUMBER: 944016.01

PERSONNEL: Shane Scrimshire

STATIC WATER LEVEL (FT): 66.75

MEASURING POINT DESCRIPTION: Top of Casing

WATER LEVEL MEASUREMENT METHOD: Elec. Probe

PURGE METHOD: Redi-Flow 2

TIME START PURGE: 1350

PURGE DEPTH (FT) 82'

TIME END PURGE: 1412

TIME SAMPLED: 1417

COMMENTS: -Collected duplicate sample DW-121595 from WCC-15

Began purge at approx. 1gpm to prevent dewatering slow recovering well.

WELL VOLUME CALCULATION (FILL IN BEFORE PURGING)	TOTAL DEPTH (FT)	-	DEPTH TO WATER (FT)	=	WATER COLUMN (FT)	X	MULTIPLIER FOR CASING DIAMETER (IN) 2	4	6	=	X 3 = 8 CASING VOLUME (GAL)
	83.40		66.75		16.65		0.16	0.64	1.44		2.59

TIME	1359	1403 ~~1353~~	1405	1409	1412		
VOLUME PURGED (GAL)	1gal.	3gal.	5gal.	6gal.	12gal.		
PURGE RATE (GPM)	1gpm	1gpm	1gpm	1gpm	1gpm		
TEMPERATURE (°C)	73.9	74.6	75.2	74.2	74.6		
pH	7.54	7.34	7.25	7.22	7.20		
SPECIFIC CONDUCTIVITY (micromhos/cm) (uncorrected)	14,270.	18,870.	19,370.	19,350.	19,180		
DISSOLVED OXYGEN (mg/L)							
eH(MV)Pt-AgCl ref.							
TURBIDITY/COLOR	Yel., Turb semi clear	→	V. light Yel semi clear	→	V.V.V light Yel. clear		
ODOR	NO	NO	NO	NO	NO		
DEPTH OF PURGE INTAKE (FT)	82'	82'	82'	82'	82'		
DEPTH TO WATER DURING PURGE (FT)	N.A.	N.A.	N.A.	N.A.	N.A.		
NUMBER OF CASING VOLUMES REMOVED							
DEWATERED?							

N.A. - Not Available

F-43.1 (5-89)

Groundwater Purge and Sample Form Date: 12/15/95 **Kennedy/Jenks Consul**

PROJECT NAME: DAC WELL NUMBER: WCC-1S

PROJECT NUMBER: 944016.01 PERSONNEL: Shane Scrimshire

SAMPLE DATA:

TIME SAMPLED: 1417 COMMENTS: WCC1S-13 @ 1417, DW-121595 @

DEPTH SAMPLED (FT): 82' EB-121595 @ 1520 (Equip. B

SAMPLING EQUIPMENT: Redi-Flow 2 TB-121595 @ 1540 (Transfer B

SAMPLE NO.	NO. OF CONTAINERS	CONTAINER TYPE	PRESERVATIVE	FIELD FILTRATION	VOLUME FILLED (ml or L)	TURBIDITY	COLOR	SHIPPED UNDER CHAIN-OF-CUSTODY AT 4°C?	ANALYSIS REQUEST (METHOD)	COMMENT
WCC1S-13	3	40mL VOA	HCL	—	120mL	—	Clear	Yes	~~8240~~/8260	
DW-121595	3	"	"	—	"	—	Clear	"	"	
EB-121595	3	"	"	—	"	—	"	"	"	
TB-121595	3	"	"	—	"	—	"	"	"	

PURGE WATER DISPOSAL NOTES:

TOTAL DISCHARGE (GAL): 12 gal. COMMENTS:

DISPOSAL METHOD: On site drum storage

DRUM DESIGNATION(S)/VOLUME PER (GAL): Shared drum with WCC-1D purgew

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

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

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

WELL CASING OK?: (YES) NO

COMMENTS: No locking cap on well, slip type only.

GENERAL:

WEATHER CONDITIONS: Clear

TEMPERATURE (SPECIFY °C OR °F): 68 °F

PROBLEMS ENCOUNTERED DURING PURGING OR SAMPLING? No

cc: Project Manager: Sarah Bartling
Job File:
Other:

WATER LEVEL DATA SHEET

Well No.	Date Mo/Day/Yr	Time	Well Elevation	Depth To Water	Water Elevation	Initials	Comments
WCC-5S	12/12/95	840		64.36		SCS	89.40
WCC-9S		855		63.40		SCS	89.10
WCC-12S		900		63.46		SCS	90.20
WCC-2S		905		66.45		SCS	88.80
WCC-7S		918		64.88		SCS	88.90
WCC 11S		930		65.32		SCS	87.30
WCC-4S		949		65.85		SCS	89.60
WCC-8S		953		66.45		SCS	89.00
WCC-1S		1000		66.75		SCS	83.40 (2")
WCC-10		1007		66.76		SCS	135.80
WCC-3S		1013		67.25		SCS	88.10
WCC-3D		1019		67.35		SCS	138.80
WCC-6S		1028		67.25		SCS	89.20
WCC-10S		1039		66.66		SCS	89.35
DAC-P1		1045		68.10		SCS	90.00

Job No. 944016.01 Facility D.A.C.

APPENDIX D

CHAIN-OF-CUSTODY RECORDS

NED NKS ISU ITS

SAMPLE CHAIN-OF-CUSTODY ANALYSIS REQUEST

☐ . Stine 16, Be I, CA 9 90 Ne #300, V 895
☐ 530 South 336th St., Federal Way, WA 98003
~~☐ 17810 Red Hill Ave., #220, Irvine, CA 92714~~
☐ 2191 East Bayshore Rd., #200, Palo Alto, CA 94303
☐ 3336 Bradshaw Rd., #140, Sacramento, CA 95827
☐ 303 Second St., San Francisco, CA 94107
☐ 1000 Hill Rd., #200, Ventura, CA 93003

POSSIBLE HAZARDS:

Date 12/12/95
Report To Sarah Bartling
Source of Samples DAC
Company Kennedy/Jenks
Sampler Name Shane Scrimshire
Address
Phone (714) 261-1577
Project No. 944016.01
Phone (714) 261-1577

Lab Destination Curtis + Tompkins
Address
Phone
Carrier/Way Bill No.

(1) Lab ID No.	(1) Client ID No.	COLLECTION Date	COLLECTION Time	(2) Type	Depth	(3) Comp.	(4) Pres.	Turn-around	(5) ANALYSES REQUESTED: 8240/8260								Comment/Conditions (Container type, container number, etc.)
10	WCC5S-13	12/12/95	1228	W			HCL	Norm.	X								3-40mL VOAs
11	WCC9S-13	"	1431	W			"	"	X								"
12	DW-121595 W 12-14-95								X								

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

SAMPLE RELINQUISHED BY:

Print Name	Signature	Company	Date	Time
Shane Scrimshire	[signature]	K/J	12/15/95	1735

SAMPLE RECEIVED BY:

Print Name	Signature	Company	Date	Time
Gary Gortz	[signature]	C&T	12/15	17:35

\MISC\CUSTODY2.FRM

000065.06

BOE-C6-0120883

NED NKS ISU ITS

☐ : / Stine 15, Br , CA 9 90 No #300, V 896
☐ 530 South 336th St., Federal Way, WA 98003
☐ ~~17310 Red Hill Ave., #220, Irvine, CA 92714~~
☐ 2191 East Bayshore Rd., #200, Palo Alto, CA 94303
☐ 3336 Bradshaw Rd., #140, Sacramento, CA 95827
☐ 303 Second St., San Francisco, CA 94107
☐ 1000 Hill Rd., #200, Ventura, CA 93003

SAMPLE CHAIN-OF-CUSTODY ANALYSIS REQUEST

213527

POSSIBLE HAZARDS:

Date 12/15/95 Report To Sarah Bartling Lab Destination Curtis + Tompkins

Source of Samples Kennedy/Jenks Company Kennedy/Jenks Address

Sampler Name Shane Scrimshire Address Phone

Phone 714-261-1577

Project No. 944016.01 Phone 714-261-1577 Carrier/Way Bill No.

(1) Lab ID No.	(1) Client ID No.	COLLECTION Date	COLLECTION Time	(2) Type	Depth	(3) Comp.	(4) Pres.	Turn-around	(5) ANALYSES REQUESTED: 5240/8260								Comment/Conditions (Container type, container number, etc.)
1	WCC12S-13	12/15/95	816	W			HCL	Norm	X								3-40 mL VOAs
2	WCC2S-13		915						X								
3	WCC7S-13		1015						X								
4	WCC11S-13		1116						X								
5	WCC4S-13		1230						X								
6	WCC8S-13		1315						X								
7	WCC1S-13		1417						X								
8	EB-121595		1520						X								
9	TB-121595		1540						X								

Not received

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

SAMPLE RELINQUISHED BY:

Print Name	Signature	Company	Date	Time
Shane Scrimshire	[signature]	K/J	12/15/95	1738

SAMPLE RECEIVED BY:

Print Name	Signature	Company	Date	Time
[signature]	GARY KATZ	CAT	12/15	1735

\MISC\CUSTODY2.FRM

000065.06

BOE-C6-0120884

INEC :NK: NSL NTS

SAMPLE CHAIN-OF-CUSTODY ANALYSIS REQUEST

☐ ...w Stir ...115, ... ld, CA ... 190 ... #30(NV 8...
☐ 530 South 336th St., Federal Way, WA 98003
☐ ~~17310 Red Hill Ave., #220, Irvine, CA 92714~~
☐ 2191 East Bayshore Rd., #200, Palo Alto, CA 94303
☐ 3338 Bradshaw Rd., #140, Sacramento, CA 95827
☐ 303 Second St., San Francisco, CA 94107
☐ 1000 Hill Rd., #200, Ventura, CA 93003

213525

POSSIBLE HAZARDS:

Date 12/16/95 Report To Sarah Bartling

Source of Samples DAC Company Kennedy/Jenks

Sampler Name Shane Scrimshire Address

Phone 714-261-1577

Project No. 944016.01 Phone 714-261-1577

Lab Destination

Address

Phone

Carrier/Way Bill No.

(1) Lab ID No.	(1) Client ID No.	COLLECTION Date	COLLECTION Time	(2) Type	Depth	(3) Comp.	(4) Pres.	Turn-around	(5) ANALYSES REQUESTED: 8240/8260								Comment/Conditions (Container type, container number, etc.)
	WCC1D-13	12/16/95	907	W			HCL	Norm.	X								3-40 mL VOAs
	WCC10S-13	↓	1032	↓			↓	↓	X								"
	WCC3D-13	↓	1236	↓			↓	↓	X								"
	WCC6S-13	↓	1331	↓			↓	↓	X								"
	WCC3S-13	↓	1427	↓			↓	↓	X								"
	~~WCC~~ SB DAC-P1	↓	1633	↓			↓	↓	X								"
	RB-121695	↓	1600	↓			↓	↓	X								"
	TB-121695	↓	1650	↓			↓	↓	X								"
	Trip Blank	↓	—	↓			↓	↓	X								2-40 mL VOAs

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

SAMPLE RELINQUISHED BY:

Print Name	Signature	Company	Date	Time
Shane Scrimshire	[signature]	K/J	12/16/95	1800
Sarah Bartling	[signature]	K/J	12/18/95	1115

SAMPLE RECEIVED BY:

Print Name	Signature	Company	Date	Time
Sarah Bartling	[signature]	Kennedy/Jenks	12/16/95	1800
ESTRADA Jesse	[signature]	[illegible]	12/18/95	[illegible]

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BOE-C6-0120885