GROUNDWATER MONITORING
DATA SUMMARY REPORT
FOURTH QUARTER, 1992

DOUGLAS AIRCRAFT COMPANY C-6 FACILITY
TORRANCE, CALIFORNIA

K/J 924010.00
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Kennedy/Jenks Consultants

SCANNED

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1.0 INTRODUCTION

The Douglas Aircraft Company (DAC) C-6 Facility is located at 19503 South Normandie Avenue, Torrance, California (Figure 1). Quarterly groundwater sampling is being conducted in response to the California Regional Water Quality Control Board - Los Angeles Region correspondence to DAC, dated 7 April 1992. This report summarizes laboratory analytical data generated through the chemical analysis of groundwater samples collected during the period of 7-9 December 1992, Fourth Quarter 1992.

2.0 QUARTERLY MONITORING PROGRAM

Fourth Quarter 1992 groundwater sampling was performed in accordance with standard sampling procedures. Static water level depths were measured on 7 December 1992 prior to initiating purging of groundwater from any observation wells. However, several of the water levels measurements were anomalous due an equipment malfunction. Water level measurements were repeated on 6 January 1993.

Groundwater samples were collected from the following wells and chemically analyzed for volatile organic compounds (VOCs) by EPA Method 8240:

> 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. Table 2 summarizes the results of chemical analysis of groundwater samples and duplicates. Table 3 summarizes available measured groundwater elevations to date. Copies of laboratory data sheets, groundwater purge and sample forms, and Chain-of-Custody records are included in Appendices A, B, and C, respectively.

2.1 Groundwater Sampling Procedures

Prior to collecting groundwater samples from each well, groundwater was purged by using an electrical submersible pump that was temporarily installed into 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 readings: pH, electrical conductivity, temperature and clarity. Purged groundwater was stored onsite in DOT approved 55 gallon barrels pending the results of laboratory analysis of samples.

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

2.2 Field QA/QC Procedures

One blind duplicate groundwater sample was collected each day from selected observation wells for Quality Control purposes. Duplicates were collected in four HCL-preserved vials and identified by inserting the collection date after "DW-". For example, a duplicate sample collected on 7 December 1992 was identified as "DW-120792". No further sample identification was provided to the laboratory.

To verify that the groundwater samples were not exposed to analytes during storage and transportation to the analytical laboratory and that decontamination of sampling equipment was satisfactory to prevent cross-contamination of groundwater samples, trip blanks and field (equipment) blanks were chemically analyzed for VOCs. One trip blank was placed in the ice-cooled storage/transportation chest when the first groundwater sample was collected, and transported to the laboratory with the day's samples. Trip blanks were identified following a similar protocol to that used for duplicate water samples. For example, a trip blank prepared on 7 December 1992 was identified as "TB-120792".

Following decontamination of the bailer by steam-cleaning, and prior to collection of groundwater samples from successive wells, a field blank was prepared for laboratory analysis. Each field blank was prepared by pouring Reagent Grade II (Milli-Que) water, prepared by the analytical laboratory, through the bailer and discharge spigot and collecting the rinsate in one 40-ml vial preserved with HCL. Field blanks were identified following a similar protocol to that used for duplicate water samples. For example, a field blank prepared on 7 December 1992 was identified as "FB-120792". The wells sampled before and after field blank preparation were recorded.

All groundwater, duplicate, trip blank and field blank samples were transported in ice-cooled chests to West Coast Analytical Services, Inc. Santa Fe Springs, 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 7 December 1992 or as noted above (Table 3 and Appendix B). An estimated potentiometric surface map for the shallow zone is presented as Figure 4. The groundwater gradient in the shallow zone was generally south-southeast with a southerly trough-like depression in the vicinity of observation wells WCC-7S and WCC-12S based on January 1992 measurements. Prior reports prepared by Woodward-Clyde Consultants (WCC, Phase II Report, May 1988; Phase III Report, March 1990) have indicated a generally southeast gradient direction, which is similar to current estimated conditions. Insufficient data (two wells) are available to define the groundwater gradient in the deeper zone.

3.2 Analytical Data

The results of chemical analysis of groundwater and duplicate samples are summarized on Table 2. Duplicate groundwater samples are indicated by an asterisk and are presented with the "original" groundwater sample. This table includes cumulative analytical data for all monitoring wells and includes 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 that TCE concentrations have increased from 28,000 micrograms per liter (ug/L) to 29,000 ug/L coming onto DAC's property. DAC-P1 is screened in the shallow zone.

- Background concentrations of TCE in the shallow zone upgradient well WCC-11S has decreased to 83 ug/L from 140 ug/L. TCE concentration in the upgradient well WCC-10S remained the same at 110 ug/L while the TCE concentration in well WCC-2S has increased from 110 ug/L to 140 ug/L. Only one additional chemical was detected for the first time in well WCC-6S (1,2-DCA at 80 ug/L). This is denoted by a double asterisk in table 2.

- Groundwater elevation data (Figure 4) and chemical concentration data (Figure 3) indicate that chemical transport in the shallow zone is in a generally southerly direction in the vicinity of buildings 36 and 41. Chemical concentration data from the eastern boundary observation wells (WCC-5S, WCC-9S and WCC-12S) are the same level of magnitude as upgradient "background level" wells (WCC-10S;, WCC-2S). Therefore, the data do not suggest chemical migration offsite from an onsite source.

- TCE and other VOC concentrations (Table 2), in samples collected from the the two deeper zone wells (WCC-1D and WCC-3D), indicate an increase in chemical concentration in WCC-3D while chemical concentrations remained relatively unchanged in well WCC-1D.

- Low concentrations of Methylene Chloride were detected in all field and travel blanks at relatively low concentrations. Methylene Chloride is most likely a laboratory contaminant.

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OBSERVATION WELL CONSTRUCTION DETAILS
GROUNDWATER MONITORING DATA SUMMARY REPORT
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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]	03-26-87	2	91	78-88	72	Schedule 40 PVC 0.020-Inch Slots	Shallow
WCC-2S[1]	10-28-87	4	90.5	70-90	63	Schedule 40 PVC 0.010-Inch Slots	Shallow
WCC-3S[1]	10-26-87	4	92.0	69-89	64	Schedule 40 PVC 0.010-Inch Slots	Shallow
WCC-4S[1]	10-27-87	4	91.5	70.5-90.5	65	Schedule 40 PVC 0.010-Inch Slots	Shallow
WCC-5S[1]	11-24-87	4	91	60.5-91	58.5	Schedule 40 PVC 0.010-Inch Slots	Shallow
WCC-6S[2]	09-22-89	4	91	60-90	N/A[3]	Schedule 40 PVC 0.010-Inch Slots	Shallow
WCC-7S[2]	06-08-89	4	90.5	60-90	54	Schedule 40 PVC 0.010-Inch Slots	Shallow
WCC-8S[2]	06-12-89	4	90	59.5-89.5	54	Schedule 40 PVC 0.010-Inch Slots	Shallow
WCC-9S[2]	09/21/89	4	91.5	60-90	55	Schedule 40 PVC 0.010-Inch Slots	Shallow
WCC-10S[2]	06-07-89	4	90.8	60-90	54	Schedule 40 PVC 0.010-Inch Slots	Shallow
WCC-11S	N/A	4	N/A	60-90(?)	N/A	Schedule 40 PVC 0.010-Inch Slots	Shallow
WCC-12S	N/A	4	N/A	60-90(?)	N/A	Schedule 40 PVC 0.010-Inch Slots	Shallow
DAC-P1	09-25-89	4	N/A	60-90(?)	N/A	Schedule 40 PVC 0.010-Inch Slots	Shallow
WCC-1D[2]	06-30-89	4	140	120-140	115	Schedule 40 PVC 0.010-Inch Slots	Deeper
WCC-3D[2]	06-27-89	4	140	120-140	114	Schedule 40 PVC 0.010-Inch Slots	Deeper

Notes:
1. Data taken from Woodward-Clyde Consultants Phase II Report, May 1988
2. Data taken from Woodward-Clyde Consultants Phase III Report, March 1990
3. Not Available

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TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL DATA
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COMPOUNDS DETECTED BY EPA METHOD 8240 - All results are reported in ug/L (ppb)

WELL I.D.	SAMPLE DATE	1,1-DCE	1,1-DCA	1,1,1-TCA	TCE	MIBK	trans-1,2-DCE	Chloroform	Toluene	Benzene	cis-1,2-DCE	MEK	Acetone	Total Xylenes	Freon-TF***	Methlyene*** Chloride	Tetra-*** Hydrofuran	Carbon Tetra-Chloride	1,1,2-TCA	PCE	Carbon Disulfide	Ethyl-Benzene	1,2-DCA ***
WCC-55	10/06/89	210	4	130	140	<5	7	<1	<1	<1	12	-	-	-	-	-	-	-	-	-	-	-	-
	11/19/91	5,800	-	8,000	3,000	17,000	-	-	35,000	-	-	21,000	-	-	-	-	-	-	-	-	-	-	-
	06/17/92	5,400	<500	2,100	3,000	7,600	<500	<500	15,000	<500	<500	6,300	<3,000	-	-	-	-	-	-	-	-	-	-
	09/23/92	5,900	94	1,300	3,100	7,500	170	20	10,000	87	200	3,500	75	28	<1	5	<5	<1	55	<1	<1	5	5
	*12/09/92	3,700/5,600	80/<100	580/1,400	2,700/3,200	3,400/<500	100/200	<50/<100	5,000/10,000	80/<100	200/200	3,000/5,000	<300/<500	<50/<100	<50/<100	100/200	<300/<500	<50/<100	50/<100	<50/<100	<50/<100	<50/<100	<60/<100
WCC-75	07/13/89	850	<10	110	1,300	<50	11	<10	<10	<10	29	-	-	-	-	-	-	-	-	-	-	-	-
	08/23/89	1,100	<30	56	1,400	<100	<30	<30	<30	<30	31	-	-	-	-	-	-	-	-	-	-	-	-
	11/18/91	290	-	-	1,200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	05/17/92	230	<5	<5	560	<10	<5	<5	<5	<5	<5	<10	<30	<5	<5	10	30	<5	<5	<5	<5	<5	<5
	09/23/92	140	<5	<5	570	<30	<5	<5	<5	<5	<5	<30	<30	<5	<5	10	<30	<5	<5	<5	<5	<5	<5
	12/08/92	140	<5	<5	430	<30	<5	<5	<5	<5	<5	<30	<30	<5	<5	10	-	-	-	-	-	-	-
WCC-85	07/13/89	430	<5	150	240	<30	9	<5	<5	<5	7	-	-	-	-	-	-	-	-	-	-	-	-
	06/23/89	820	<5	130	430	<30	<5	<5	<5	<5	7	-	-	-	-	-	-	-	-	-	-	-	-
	11/15/91	2,500	-	400	3,000	-	40	25	120	-	40	-	-	-	-	-	-	-	-	-	-	-	-
	*06/17/92	2,200/2,300	<25/<50	180/180	2,400/2,500	<50/<100	<25/<50	<25/<50	<25/<50	<25/<50	<25/<50	<50/<100	<150/<300	<20	<20	40	<100	<20	<20	<20	<20	<20	<20
	09/23/92	2,800	<20	200	3,100	<100	20	20	<20	<20	<20	<100	<100	<20	<20	30	<100	<20	<20	<20	<20	<20	<20
	12/08/92	2,000	<20	100	2,500	<100	30	20	<20	20	20	<100	<100	-	-	-	-	-	-	-	-	-	-
WCC-95	10/06/89	<1	<1	<1	15	<5	<1	<1	<1	<1	7	-	-	-	-	-	-	-	-	-	-	-	-
	11/19/91	-	-	-	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	06/15/92	7	<5	<5	42	<10	<5	<5	<5	<5	<5	<10	<30	<1	1	10	<5	<1	<1	<1	<1	<1	<1
	09/21/92	6	<1	<1	45	<5	<1	<1	<1	<1	2	<5	<5	<1	<1	3	<5	<1	<1	<1	<1	<1	<1
	12/07/92	10	<1	<1	51	<5	<1	12	<1	<1	<1	<5	<5	-	-	-	-	-	-	-	-	-	-
WCC-105	*07/13/89	2/1	<1/<1	<1/<1	55/67	<5/<5	<1/<1	3/3	<1/<1	<1/<1	<1/<1	-	-	-	-	-	-	-	-	-	-	-	-
	08/23/89	4	<1	<1	81	5	<1	4	<1	<1	<1	-	-	-	-	-	-	-	-	-	-	-	-
	11/20/91	-	-	-	67	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	06/15/92	10	<5	<5	120	<10	<5	<5	<5	<5	<5	12	35	<1/<1	<1/<1	8/8	<5/<5	1/1	<1/<1	<1/<1	<1/<1	<1/<1	<1/<1
	*09/21/92	9/9	<1/<1	<1/<1	120/110	<5/<5	<1/<1	<1/<1	<1/<1	<1/<1	<1/<1	<5/<5	<5/<5	<1	<1	3	<5	<1	<1	<1	<1	<1	<1
	12/08/92	8	<1	<1	110	<5	<1	<1	<1	<1	<1	<5	<5	-	-	-	-	-	-	-	-	-	-
WCC-115	11/15/91	10	-	-	80	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	05/16/92	21	<5	<5	120	<10	<5	<5	<5	<5	<5	<10	<10	<1	2	9	<5	<1	<1	<1	<1	<1	<1
	09/21/92	17	<1	<1	140	<5	<1	<1	<1	<1	2	<5	<5	<1	<1	4	<5	<1	<1	<1	<1	<1	<1
	12/08/92	12	<1	<1	85	<5	<1	<1	<1	<1	3	<5	<5	-	-	-	-	-	-	-	-	-	-
WCC-125	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	<10/<10	<1	4	7	<5	<1	<1	<1	<1	<1	<1
	09/22/92	130	7	1	500	<5	<1	3	<1	<1	3	<5	<5	<5	<5	20	<30	<5	<5	<5	<5	<5	<5
	12/08/92	150	<5	<5	550	<30	<5	<5	<5	<5	5	<30	<30	-	-	-	-	-	-	-	-	-	-

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WELL I.D.	SAMPLE DATE	1,1-DCE	1,1-DCA	1,1,1-TCA	TCE	MIBK	trans-1,2-DCE	Chloroform	Toluene	Benzene	cis-1,2-DCE	MEK	Acetone	Total Xylenes	Freon-TF*** 4	Methlyene*** Chloride	Tetra-*** Hydrofuran	Carbon Tetra-Chloride	1,1,2-TCA	PCE	Carbon Disulfide	Ethyl-Benzene	1,2-DCA *** 3
DAC-P1	10/09/89	<200	<200	<200	17,000	<1,000	<200	<200	<200	<200	<200	<1,000	<1,000	-	-	-	-	-	-	-	-	-	-
	05/17/92	<5	<5	<5	21,000	<10	<5	10	<5	<5	12	<10	<30	-	-	-	-	-	-	-	-	-	-
	*05/22/92	4/4	<1/<1	<1/<1	28000/28000	<5/<5	1/2	54/51	<1/<1	3/5	71/70	<5/<5	<5/<5	<1/<1	1/2	4/4	<5/<5	4/4	9/9	13/13	<1/<1	<1/<1	<1/<1
	12/09/92	<300	<500	<500	29000	<3,000	<500	<500	<500	<500	<500	<3,000	<3,000	<500	<500	2000	<3000	<500	<500	<500	<500	<500	<500
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	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	*05/15/92	1,500/1,300	<25/<25	63/64	230/210	<50/65	<25/<25	<25/<25	<25/<25	<25/<25	<25/<25	<50/<50	<50/<50	-	-	-	-	-	-	-	-	-	-
	05/22/92	180	<1	8	44	<5	<1	<1	<1	<1	2	<5	<5	<1	4	11	<5	<1	<1	<1	<1	<1	<1
	*12/07/92	150/150	<1/<1	8/160	7/6	<5/<5	<1/<1	1/1	<1/5	<1/<1	2/<1	<5/<5	<5/<5	<1/<1	<1/<1	2/2	<5/<5	<1/<1	<1/<1	<1/<1	<1/<1	<1/<1	<1/<1
WCC-3D	07/25/89	<1	<1	49	4	<5	<1	<1	3	<1	11	-	-	-	-	-	-	-	-	-	-	-	-
	08/23/89	<10	<10	32	<10	<50	<10	<10	<10	<10	<10	-	-	-	-	-	-	-	-	-	-	-	-
	11/14/91	20	-	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	05/16/92	510	<5	880	23	<10	<5	<5	8	<5	<5	<10	<30	-	-	-	-	-	-	-	-	-	-
	09/22/92	21	<1	27	2	<5	<1	<1	<1	<1	<1	<5	<5	<1	1	8	<5	<1	<1	<1	<1	<1	<1
	12/07/92	120	<1	120	5	<5	<1	1	3	<1	<1	<5	<5	<1	<1	1	<5	<1	<1	<1	<1	<1	<1

Notes:
1 -Not Detected (Detection limit not specified)
2 *Duplicate sample also analyzed
3 ***Compounds first detected December 1992 sampling
4 ***Potential Laboratory Contaminants

TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL DATA
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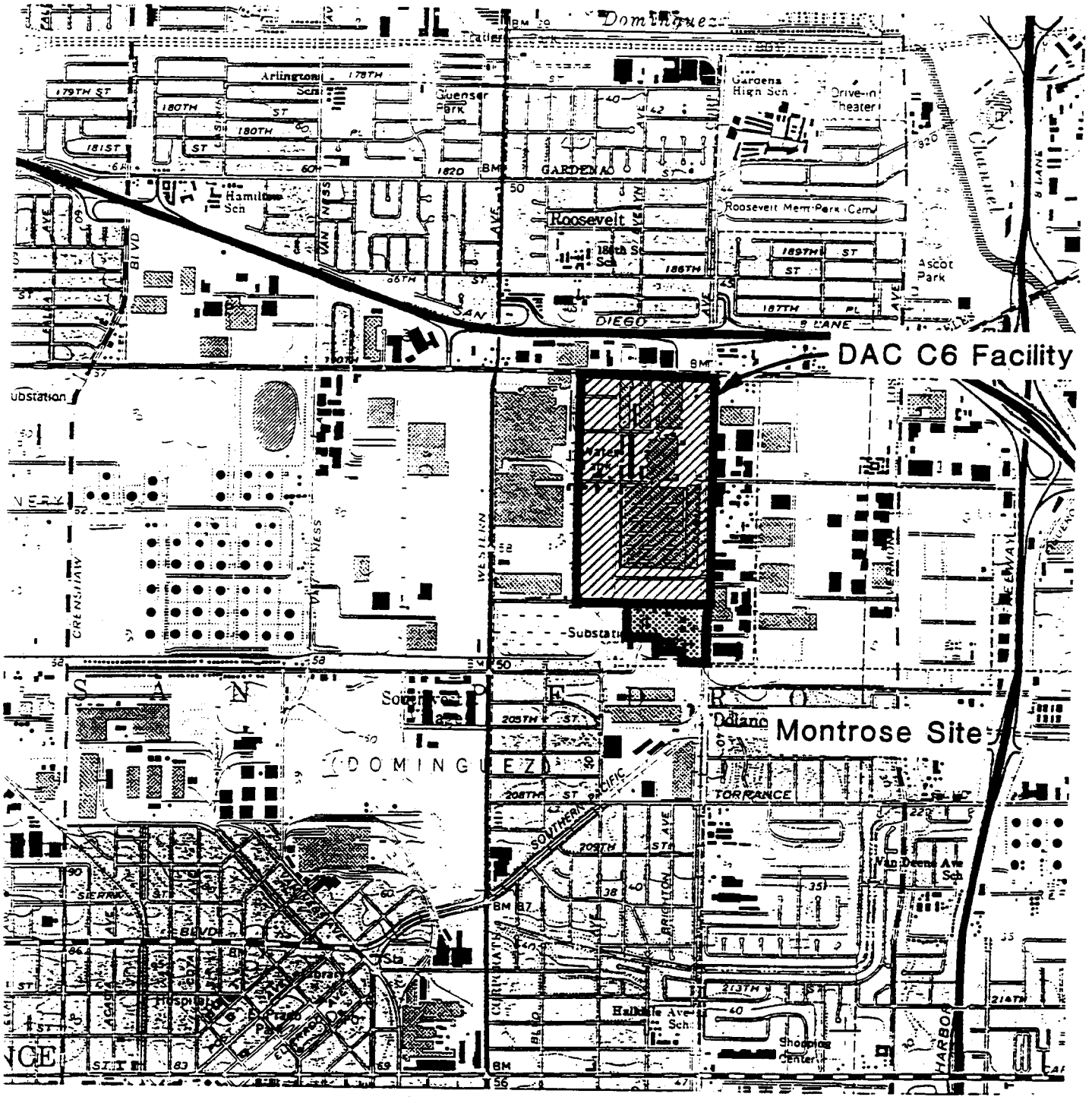
WELL I.D.	SAMPLE DATE	1,1-DCE	1,1-DCA	1,1,1-TCA	TCE	MIBK	trans-1,2-DCE	Chloroform	Toluene	Benzene	cis-1,2-DCE	MEK	Acetone	Total Xylenes	Freon-TF***	Methlyene*** Chloride	Tetra-*** Hydrofuran	Carbon Tetra-Chloride	1,1,2-TCA	PCE	Carbon Disulfide	Ethyl-Benzene	1,2-DCA ***
WCC-1S	03/27/87	2,800		300	4,600	-[1]	-	-	-	85	-	-	-	-	-	-	-	-	-	-	-	-	-
	**04/13/87	3,700/2,500	-/-	250/120	5,500/3,600	-/-	-/-	-/-	-/-	110/-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11/12/87	3,000	23	160	5,200	-	75	35	-	150	-	-	-	-	-	-	-	-	-	-	-	-	-
	07/13/89	900	<20	57	2,400	<100	<20	<20	<20	<20	<20	-	-	-	-	-	-	-	-	-	-	-	-
	08/23/89	1,500	30	<20	2,800	<100	<20	<30	<30	<30	41	-	-	-	-	-	-	-	-	-	-	-	-
	11/18/91	1,300	-	-	3,700	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	06/17/92	1,700	<50	<50	3,900	<100	<50	<50	<50	<50	<5	<100	<300	-	-	-	-	-	-	-	-	-	-
	09/23/92	1,500	13	16	3,400	<5	14	13	1	37	<1	<5	<5	<1	<1	4	<5	<1	<1	<1	22	<1	<1
	12/09/92	1,500	<30	<30	3,100	<100	<30	<30	<30	30	<30	<100	<100	<30	<30	40	<100	<30	<30	<30	<30	<30	<30
WCC-2S	11/02/87	5	-	5	14	-	-	-	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11/12/87	2	-	1	4	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	07/13/89	<1	<1	<1	5	<5	<1	<1	<1	<1	<1	-	-	-	-	-	-	-	-	-	-	-	-
	08/23/89	<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	<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	<5/<5	<1/<1	<1/1	11/9	<5/<5	<1/<1	<1/<1	<1/<1	<1/<1	<1/<1	<1/<1
	**12/08/92	49/27	<1/<1	2/2	140/99	<5/<5	<1/<1	<1/2	<1/<1	<1/<1	<1/<1	<5/<5	6/<5	<1/<1	<1/<1	5/2	<5/<5	<1/<1	<1/<1	<1/<1	<1/<1	<1/<1	<1/<1
WCC-3S	11/02/87	38,000	-	110,000	10,000	54,000	-	-	80,000	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11/12/87	86,000	1,000	54,000	11,000	70,000	1,000	-	140,000	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	07/13/89	18,000	<500	56,000	7,700	<3,000	660	<500	32,000	<500	<500	-	-	-	-	-	-	-	-	-	-	-	-
	08/23/89	56,000	<1,000	78,000	6,000	<5,000	<1,000	<1,000	56,000	<1,000	<1,000	-	-	-	-	-	-	-	-	-	-	-	-
	11/14/91	12,000	400	5,900	7,900	70,000	550	250	27,000	-	550	10,000	-	-	-	-	-	-	-	-	-	-	-
	06/17/92	25,000	<5,000	13,000	13,000	100,000	<5,000	<5,000	51,000	<5,000	<5,000	<10,000	<30,000	-	-	-	-	-	-	-	-	-	-
	09/23/92	22,000	<500	7,800	12,000	82,000	<500	<500	52,000	<500	<500	<3,000	<3,000	<500	<500	900	<3,000	<500	<500	<500	<500	<500	<500
	12/09/92	21,000	<500	5,500	11,000	90,000	500	<500	44,000	<500	700	4,000	<3,000	<500	<500	<500	<3,000	<500	<500	<500	<500	<500	<500
WCC-4S	11/02/87	360	-	14	700	-	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11/12/87	1,200	-	35	590		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	07/13/89	170	<3	11	270	-	<3	<3	<3	<3	10	-	-	-	-	-	-	-	-	-	-	-	-
	08/23/89	360	<5	7	410	<20	<5	<5	<5	<5	15	-	-	-	-	-	-	-	-	-	-	-	-
	11/18/91	1,000	-	20	2,200	<30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	06/17/92	920	<25	<25	1,500	<50	<25	<25	<25	<25	<25	<50	<150	-	-	-	-	-	-	-	-	-	-
	09/23/92	1,400	<10	20	1,900	<50	<10	10	<10	<10	<10	<50	<50	<10	<10	20	<50	<10	<10	<10	<10	<10	<10
	12/08/92	1,000	<10	22	1,500	<50	<10	10	<10	<10	10	<50	<50	<10	<10	30	<50	<10	<10	<10	<10	<10	<10
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	<1/<1	<1/<1	<1/<1	<1/<1	5/6	-	-	-	-	-	-	-	-	-	-	-	-
	08/23/89	<1	<1	12	<5	<1	<1	<1	<1	<1	4	-	-	-	-	-	-	-	-	-	-	-	-
	11/19/91	20	-	-	8	-	-	-	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	06/15/92	28	<5	<5	7	<10	<5	<5	<5	<5	<5	<10	<10	-	-	-	-	-	-	-	-	-	-
	09/21/92	21	<1	<1	5	<5	<1	<1	<1	<1	<1	<5	<5	<1	3	8	<5	<1	<1	<1	<1	<1	<1
	12/07/92	21	<1	<1	5	<5	<1	<1	<1	<1	<1	<5	<5	<1	<1	3	<5	<1	<1	<1	<1	<1	<1

BOE-C6-0015812

TABLE 3
SUMMARY OF GROUNDWATER ELEVATION DATA
GROUNDWATER MONITORING DATA SUMMARY REPORT
FOURTH QUARTER 1992
DOUGLAS AIRCRAFT C-6 FACILITY
TORRANCE, CALIFORNIA
K/J 924010.00

Observation Well	Reference Point[1] Elevation (*Feet Above MSL)	Water Level Elevation (*Feet Above Mean Sea Level)				
		11/13/87[2]	10/18/89[3]	06/15/92	09/21/92	01/05/93
WCC-1S	50.70	-21.63	-19.48	-19.20	-19.42	-19.34
WCC-2S	50.59	-19.72	-19.06	-19.15	-19.41	-19.51
WCC-3S	51.19	-21.56	-19.42	-19.24	-19.52	-19.73
WCC-4S	49.69	-21.77	-19.59	-19.22	-19.49	-19.34
WCC-5S	48.22	NA[4]	-19.70	-19.13	-19.42	-19.32
WCC-6S	50.95	NA	-19.70	-19.40	-19.64	-19.50
WCC-7S	48.29	NA	-20.07	-19.63	-19.93	-19.76
WCC-8S	50.56	NA	-19.35	-19.11	-19.34	-19.19
WCC-9S	47.01	NA	-20.07	-19.44	-19.66	-19.56
WCC-10S	51.12	NA	-18.42	-18.94	-19.33	-19.10
WCC-11S	49.97	NA	NA	-17.62	-18.81	-18.69
WCC-12S	46.92	NA	NA	-19.60	-19.90	-19.74
DAC-P1	52.44	NA	NA	-17.76	-17.88	-18.02
WCC-1D	50.45	NA	-19.51	-19.55	-19.92	-19.61
WCC-3D	51.18	NA	-19.38	-19.39	-19.71	-20.52

Notes:
1 Reference point is north side, top of well casing
2 Data taken from Woodward-Clyde Consultants Phase II Report, May 1988
3 Data taken from Woodward-Clyde Consultants Phase III Report, March, 1990
4 Not available



N

0 1,000 2,000 FEET

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

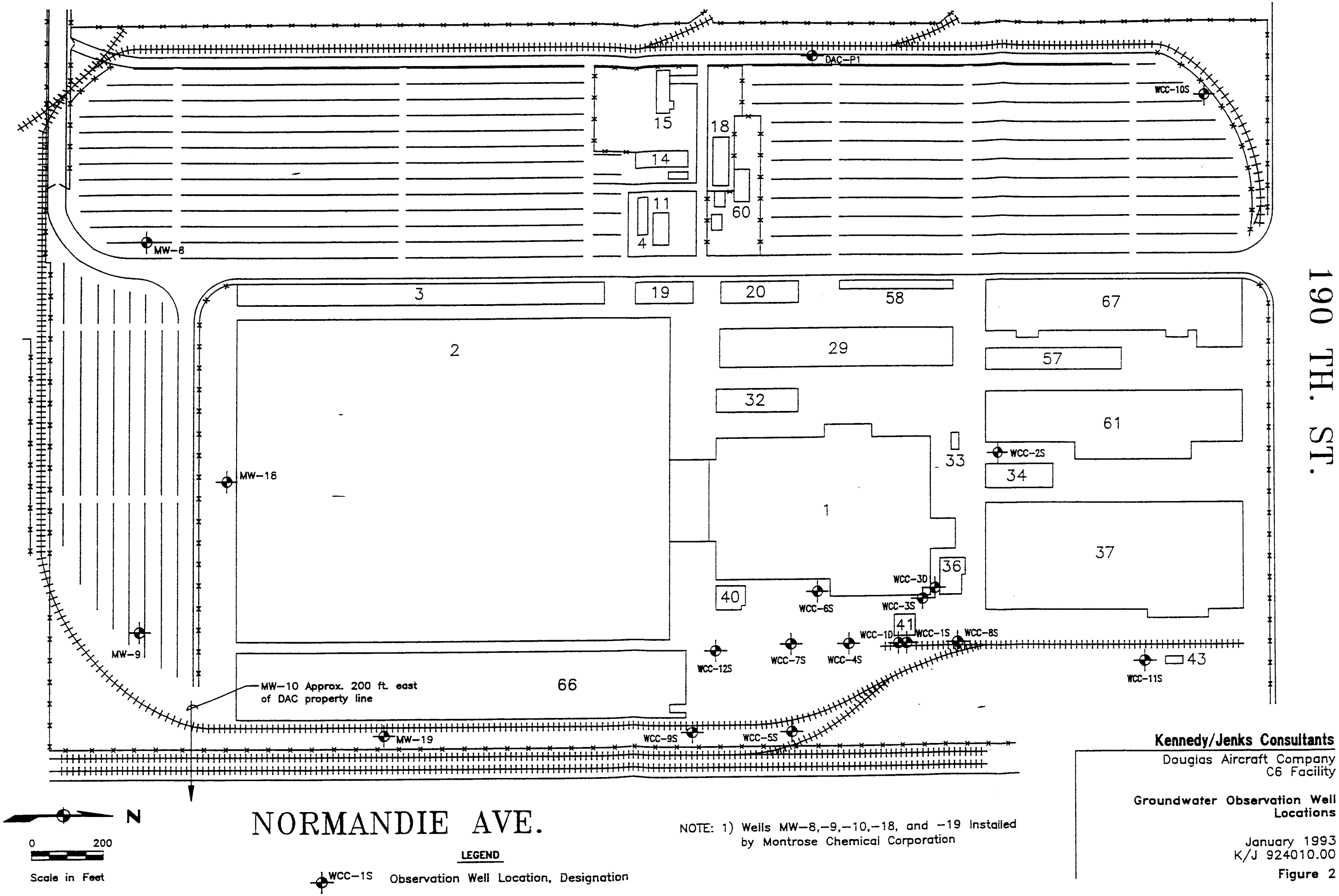
Kennedy/Jenks Consultants

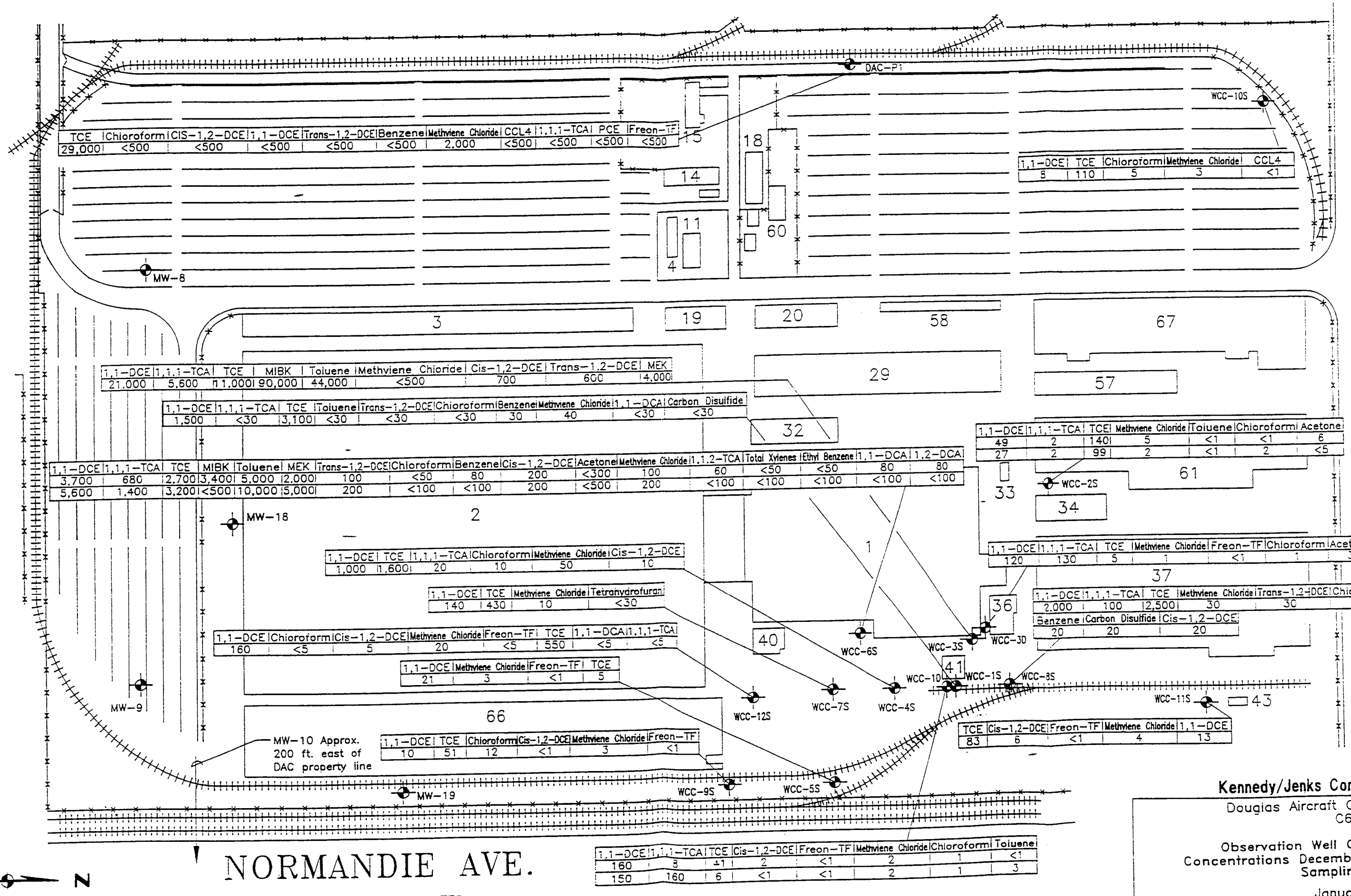
McDonnell Douglas Corporation
DAC C6 Facility

Site Vicinity Map

January 1993
K/J/C 924010.00

Figure 1


190 TH. ST.
NORMANDIE AVE.
DAC-P1
WCC-10S
MW-8
MW-16
MW-9
MW-10 Approx. 200 ft. east of DAC property line
MW-19
WCC-9S
WCC-5S
WCC-2S
WCC-3D
WCC-3S
WCC-6S
WCC-1D
WCC-1S
WCC-8S
WCC-12S
WCC-7S
WCC-4S
WCC-11S
15
14
18
11
4
60
3
19
20
58
67
2
29
57
32
61
33
34
1
37
36
40
41
43
66
N
0
200
Scale in Feet
LEGEND
WCC-1S Observation Well Location, Designation
NOTE: 1) Wells MW-8,-9,-10,-18, and -19 installed by Montrose Chemical Corporation
Kennedy/Jenks Consultants
Douglas Aircraft Company
C6 Facility
Groundwater Observation Well Locations
January 1993
K/J 924010.00
Figure 2



TCE	Chloroform	CIS-1,2-DCE	1,1-DCE	Trans-1,2-DCE	Benzene	Methylene Chloride	CCL4	1,1,1-TCA	PCE	Freon-TF
29,000	<500	<500	<500	<500	<500	2,000	<500	<500	<500	<500

1,1-DCE	TCE	Chloroform	Methylene Chloride	CCL4
5	110	5	3	<1

1,1-DCE	1,1,1-TCA	TCE	MIBK	Toluene	Methylene Chloride	Cis-1,2-DCE	Trans-1,2-DCE	MEK
21,000	5,600	11,000	90,000	44,000	<500	700	600	4,000

1,1-DCE	1,1,1-TCA	TCE	Toluene	Trans-1,2-DCE	Chloroform	Benzene	Methylene Chloride	1,1-DCA	Carbon Disulfide
1,500	<30	3,100	<30	<30	<30	30	40	<30	<30

1,1-DCE	1,1,1-TCA	TCE	Methylene Chloride	Toluene	Chloroform	Acetone
49	2	140	5	<1	<1	6
27	2	99	2	<1	2	<5

1,1-DCE	1,1,1-TCA	TCE	MIBK	Toluene	MEK	Trans-1,2-DCE	Chloroform	Benzene	Cis-1,2-DCE	Acetone	Methylene Chloride	1,1,2-TCA	Total Xylenes	Ethyl Benzene	1,1-DCA	1,2-DCA
3,700	680	2,700	3,400	5,000	2,000	100	<50	80	200	<300	100	60	<50	<50	80	80
5,600	1,400	3,200	<500	10,000	5,000	200	<100	<100	200	<500	200	<100	<100	<100	<100	<100

1,1-DCE	TCE	1,1,1-TCA	Chloroform	Methylene Chloride	Cis-1,2-DCE
1,000	1,600	20	10	50	10

1,1-DCE	TCE	Methylene Chloride	Tetrahydrofuran
140	430	10	<30

1,1-DCE	Chloroform	Cis-1,2-DCE	Methylene Chloride	Freon-TF	TCE	1,1-DCA	1,1,1-TCA
160	<5	5	20	<5	550	<5	<5

1,1-DCE	Methylene Chloride	Freon-TF	TCE
21	3	<1	5

1,1-DCE	TCE	Chloroform	Cis-1,2-DCE	Methylene Chloride	Freon-TF
10	51	12	<1	3	<1

1,1-DCE	1,1,1-TCA	TCE	Methylene Chloride	Freon-TF	Chloroform	Acetone
120	130	5	1	<1	1	3

1,1-DCE	1,1,1-TCA	TCE	Methylene Chloride	Trans-1,2-DCE	Chloroform
2,000	100	2,500	30	30	20

Benzene	Carbon Disulfide	Cis-1,2-DCE
20	20	20

TCE	Cis-1,2-DCE	Freon-TF	Methylene Chloride	1,1-DCE
83	6	<1	4	13

1,1-DCE	1,1,1-TCA	TCE	Cis-1,2-DCE	Freon-TF	Methylene Chloride	Chloroform	Toluene
160	8	41	2	<1	2	1	<1
150	160	6	<1	<1	2	1	3

NOTES:

1. Samples Analyzed by EPA Method 8240
2. All Results Reported in ug/l (ppb)
3. Wells MW-8,-9,-10,-18 and -19 Installed
4. Duplicate samples were analyzed for wells WCC-2S, WCC-6S and WCC-10

Kennedy/Jenks Consultants

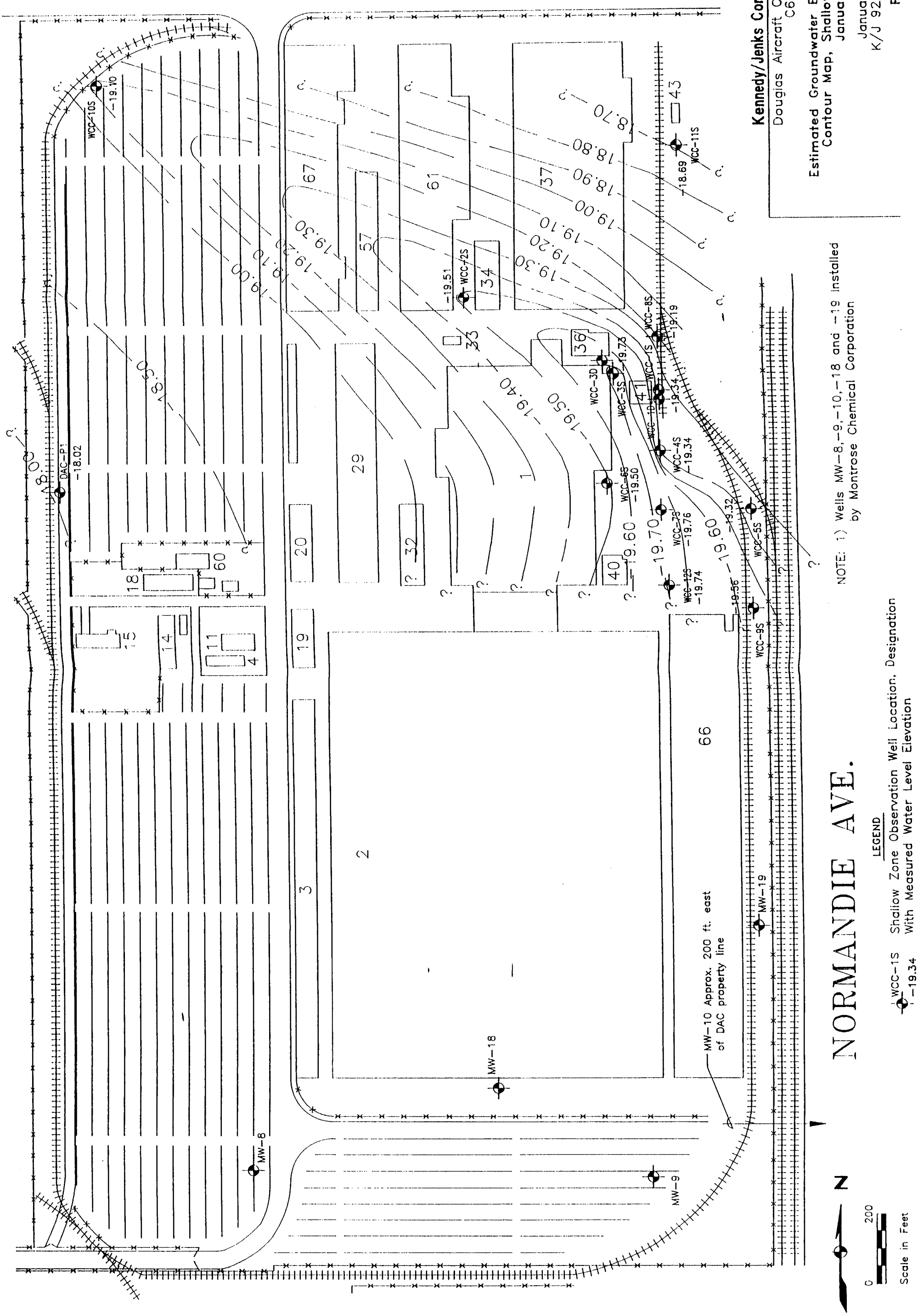
Douglas Aircraft Company
C6 Facility

Observation Well Chemical Concentrations December 1992 Sampling Event

January 1993
K/J 924010.00

Figure 3

BOE-C6-0015816


190 TH. ST.
NORMANDIE AVE.
Kennedy/Jenks Consultants
Douglas Aircraft Company
C6 Facility
Estimated Groundwater Elevation
Contour Map, Shallow Zone,
January 1993
January 1993
K/J 924010.00
Figure 4
NOTE: 1) Wells MW-8,-9,-10,-18 and -19 installed by Montrose Chemical Corporation
LEGEND
WCC-1S Shallow Zone Observation Well Location, Designation
-19.34 With Measured Water Level Elevation
MW-10 Approx. 200 ft. east of DAC property line
MW-8
MW-9
MW-18
MW-19
DAC-P1 -18.02
WCC-10S -19.10
WCC-12S -19.51
WCC-8S -19.19
WCC-1S -19.34
WCC-3D -19.73
WCC-3S
WCC-4S -19.34
WCC-6S -19.50
WCC-7S -19.76
WCC-12S -19.74
WCC-5S -19.32
WCC-9S -19.56
WCC-11S -18.69
18.70
18.80
18.90
19.00
19.10
19.20
19.30
19.40
19.50
19.60
19.70
18.50
19.10
19.20
19.30
N
0
200
Scale in Feet

APPENDIX A

LABORATORY DATA SHEETS

CLIENT: KENNEDY/JENKS CONSULTANTS SAMPLE: DW12792
WCAS JOB #: 22963

VOLATILE ORGANICS BY EPA 624/8240

DATE RECEIVED: 12/08/92
DATE EXTRACTED: 12/14/92
DATE ANALYZED: 12/14/92
INSTRUMENT ID: 4500

MATRIX: WATER
SAMPLE AMOUNT: 5ML
RUN NUMBER: 22963B4
UNITS: UG/L (PPB)

CAS NO.	COMPOUND	CONCENTRATION	DET LIMIT
67-64-1	ACETONE	ND	5.
71-43-2	BENZENE	ND	1.
75-27-4	BROMODICHLOROMETHANE	ND	1.
75-25-2	BROMOFORM	ND	1.
74-83-9	BROMOMETHANE	ND	5.
78-93-3	2-BUTANONE (MEK)	ND	5.
75-15-0	CARBON DISULFIDE	ND	1.
56-23-5	CARBON TETRACHLORIDE	ND	1.
108-90-7	CHLOROBENZENE	ND	1.
75-00-3	CHLOROETHANE	ND	5.
67-66-3	CHLOROFORM	1.	1.
74-87-3	CHLOROMETHANE	ND	5.
108-41-8	CHLOROTOLUENE	ND	1.
124-48-1	DIBROMOCHLOROMETHANE	ND	1.
95-50-1	1,2-DICHLOROBENZENE	ND	1.
541-73-1	1,3-DICHLOROBENZENE	ND	1.
106-46-7	1,4-DICHLOROBENZENE	ND	1.
75-34-3	1,1-DICHLOROETHANE	ND	1.
107-06-2	1,2-DICHLOROETHANE	ND	1.
75-35-4	1,1-DICHLOROETHYLENE	150.	1.
156-59-4	CIS-1,2-DICHLOROETHYLENE	ND	1.
156-60-5	TRANS-1,2-DICHLOROETHYLENE	ND	1.
78-87-5	1,2-DICHLOROPROPANE	ND	1.
10061-01-5	CIS-1,3-DICHLOROPROPENE	ND	1.
10061-02-6	TRANS-1,3-DICHLOROPROPENE	ND	1.
100-41-4	ETHYLBENZENE	ND	1.
106-93-4	ETHYLENE DIBROMIDE	ND	1.
76-13-1	FREON-TF	ND	1.
119-78-6	2-HEXANONE	ND	5.
75-09-2	METHYLENE CHLORIDE	2.	1.
108-10-1	4-METHYL-2-PENTANONE (MIBK)	ND	5.
100-42-5	STYRENE	ND	1.
79-34-5	1,1,2,2-TETRACHLOROETHANE	ND	1.
127-18-4	TETRACHLOROETHYLENE	ND	1.
109-99-9	TETRAHYDROFURAN	ND	5.
108-88-3	TOLUENE	3.	1.
71-55-6	1,1,1-TRICHLOROETHANE	160.	1.
79-00-5	1,1,2-TRICHLOROETHANE	ND	1.
79-01-6	TRICHLOROETHYLENE	6.	1.
75-69-4	TRICHLOROFLUOROMETHANE	ND	1.
108-05-4	VINYL ACETATE	ND	5.
75-01-4	VINYL CHLORIDE	ND	5.
1330-20-7	TOTAL XYLENES	ND	1.

SURROGATE	1,2-DCA-d4	TOL-d8	BFB
PERCENT RECOVERY	100	98	106
CONTROL LIMITS	86-121	84-115	83-112

CLIENT: KENNEDY/JENKS CONSULTANTS SAMPLE: DW12792
WCAS JOB #: 22963

TENTATIVELY IDENTIFIED COMPOUNDS

DATE RECEIVED:	12/08/92	MATRIX:	WATER
DATE EXTRACTED:	12/14/92	SAMPLE AMOUNT:	5ML
DATE ANALYZED:	12/14/92	RUN NUMBER:	22963B4
INSTRUMENT ID:	4500	UNITS:	UG/L (PPB)

	COMPOUND NAME	FRACTION	APPROXIMATE CONCENTRATION
1	NONE FOUND	VOA	

CLIENT: KENNEDY/JENKS CONSULTANTS SAMPLE: DW12892
WCAS JOB #: 22963

VOLATILE ORGANICS BY EPA 624/8240

DATE RECEIVED: 12/08/92
DATE EXTRACTED: 12/14/92
DATE ANALYZED: 12/15/92
INSTRUMENT ID: 4500

MATRIX: WATER
SAMPLE AMOUNT: 5ML
RUN NUMBER: 22963B5
UNITS: UG/L (PPB)

CAS NO.	COMPOUND	CONCENTRATION	DET LIMIT
67-64-1	ACETONE	ND	5.
71-43-2	BENZENE	ND	1.
75-27-4	BROMODICHLOROMETHANE	ND	1.
75-25-2	BROMOFORM	ND	1.
74-83-9	BROMOMETHANE	ND	5.
78-93-3	2-BUTANONE (MEK)	ND	5.
75-15-0	CARBON DISULFIDE	ND	1.
56-23-5	CARBON TETRACHLORIDE	ND	1.
108-90-7	CHLOROBENZENE	ND	1.
75-00-3	CHLOROETHANE	ND	5.
67-66-3	CHLOROFORM	2.	1.
74-87-3	CHLOROMETHANE	ND	5.
108-41-8	CHLOROTOLUENE	ND	1.
124-48-1	DIBROMOCHLOROMETHANE	ND	1.
95-50-1	1,2-DICHLOROBENZENE	ND	1.
541-73-1	1,3-DICHLOROBENZENE	ND	1.
106-46-7	1,4-DICHLOROBENZENE	ND	1.
75-34-3	1,1-DICHLOROETHANE	ND	1.
107-06-2	1,2-DICHLOROETHANE	ND	1.
75-35-4	1,1-DICHLOROETHYLENE	27.	1.
156-59-4	CIS-1,2-DICHLOROETHYLENE	ND	1.
156-60-5	TRANS-1,2-DICHLOROETHYLENE	ND	1.
78-87-5	1,2-DICHLOROPROPANE	ND	1.
10061-01-5	CIS-1,3-DICHLOROPROPENE	ND	1.
10061-02-6	TRANS-1,3-DICHLOROPROPENE	ND	1.
100-41-4	ETHYLBENZENE	ND	1.
106-93-4	ETHYLENE DIBROMIDE	ND	1.
76-13-1	FREON-TF	ND	1.
119-78-6	2-HEXANONE	ND	5.
75-09-2	METHYLENE CHLORIDE	2.	1.
108-10-1	4-METHYL-2-PENTANONE (MIBK)	ND	5.
100-42-5	STYRENE	ND	1.
79-34-5	1,1,2,2-TETRACHLOROETHANE	ND	1.
127-18-4	TETRACHLOROETHYLENE	ND	1.
109-99-9	TETRAHYDROFURAN	ND	5.
108-88-3	TOLUENE	ND	1.
71-55-6	1,1,1-TRICHLOROETHANE	2.	1.
79-00-5	1,1,2-TRICHLOROETHANE	ND	1.
79-01-6	TRICHLOROETHYLENE	99.	1.
75-69-4	TRICHLOROFLUOROMETHANE	ND	1.
108-05-4	VINYL ACETATE	ND	5.
75-01-4	VINYL CHLORIDE	ND	5.
1330-20-7	TOTAL XYLENES	ND	1.

SURROGATE	1,2-DCA-d4	TOL-d8	BFB
PERCENT RECOVERY	102	99	112
CONTROL LIMITS	86-121	84-115	83-112

CLIENT: KENNEDY/JENKS CONSULTANTS SAMPLE: DW12892
WCAS JOB #: 22963

TENTATIVELY IDENTIFIED COMPOUNDS

DATE RECEIVED:	12/08/92	MATRIX:	WATER
DATE EXTRACTED:	12/14/92	SAMPLE AMOUNT:	5ML
DATE ANALYZED:	12/15/92	RUN NUMBER:	22963B5
INSTRUMENT ID:	4500	UNITS:	UG/L (PPB)

	COMPOUND NAME	FRACTION	APPROXIMATE CONCENTRATION
1	NONE FOUND	VOA	

CLIENT: KENNEDY/JENKS CONSULTANTS SAMPLE: FB120792
WCAS JOB #: 22963

VOLATILE ORGANICS BY EPA 624/8240

DATE RECEIVED: 12/08/92
DATE EXTRACTED: 12/14/92
DATE ANALYZED: 12/15/92
INSTRUMENT ID: 4500

MATRIX: WATER
SAMPLE AMOUNT: 5ML
RUN NUMBER: 22963B6
UNITS: UG/L (PPB)

CAS NO.	COMPOUND	CONCENTRATION	DET LIMIT
67-64-1	ACETONE	ND	5.
71-43-2	BENZENE	ND	1.
75-27-4	BROMODICHLOROMETHANE	ND	1.
75-25-2	BROMOFORM	ND	1.
74-83-9	BROMOMETHANE	ND	5.
78-93-3	2-BUTANONE (MEK)	ND	5.
75-15-0	CARBON DISULFIDE	ND	1.
56-23-5	CARBON TETRACHLORIDE	ND	1.
108-90-7	CHLOROBENZENE	ND	1.
75-00-3	CHLOROETHANE	ND	5.
67-66-3	CHLOROFORM	ND	1.
74-87-3	CHLOROMETHANE	ND	5.
108-41-8	CHLOROTOLUENE	ND	1.
124-48-1	DIBROMOCHLOROMETHANE	ND	1.
95-50-1	1,2-DICHLOROBENZENE	ND	1.
541-73-1	1,3-DICHLOROBENZENE	ND	1.
106-46-7	1,4-DICHLOROBENZENE	ND	1.
75-34-3	1,1-DICHLOROETHANE	ND	1.
107-06-2	1,2-DICHLOROETHANE	ND	1.
75-35-4	1,1-DICHLOROETHYLENE	ND	1.
156-59-4	CIS-1,2-DICHLOROETHYLENE	ND	1.
156-60-5	TRANS-1,2-DICHLOROETHYLENE	ND	1.
78-87-5	1,2-DICHLOROPROPANE	ND	1.
10061-01-5	CIS-1,3-DICHLOROPROPENE	ND	1.
10061-02-6	TRANS-1,3-DICHLOROPROPENE	ND	1.
100-41-4	ETHYLBENZENE	ND	1.
106-93-4	ETHYLENE DIBROMIDE	ND	1.
76-13-1	FREON-TF	ND	1.
119-78-6	2-HEXANONE	ND	5.
75-09-2	METHYLENE CHLORIDE	2.	1.
108-10-1	4-METHYL-2-PENTANONE (MIBK)	ND	5.
100-42-5	STYRENE	ND	1.
79-34-5	1,1,2,2-TETRACHLOROETHANE	ND	1.
127-18-4	TETRACHLOROETHYLENE	ND	1.
109-99-9	TETRAHYDROFURAN	ND	5.
108-88-3	TOLUENE	ND	1.
71-55-6	1,1,1-TRICHLOROETHANE	ND	1.
79-00-5	1,1,2-TRICHLOROETHANE	ND	1.
79-01-6	TRICHLOROETHYLENE	ND	1.
75-69-4	TRICHLOROFLUOROMETHANE	ND	1.
108-05-4	VINYL ACETATE	ND	5.
75-01-4	VINYL CHLORIDE	ND	5.
1330-20-7	TOTAL XYLENES	ND	1.

SURROGATE	1,2-DCA-d4	TOL-d8	BFB
PERCENT RECOVERY	101	99	106
CONTROL LIMITS	86-121	84-115	83-112

CLIENT: KENNEDY/JENKS CONSULTANTS SAMPLE: FB120792
WCAS JOB #: 22963

TENTATIVELY IDENTIFIED COMPOUNDS

DATE RECEIVED:	12/08/92	MATRIX:	WATER
DATE EXTRACTED:	12/14/92	SAMPLE AMOUNT:	5ML
DATE ANALYZED:	12/15/92	RUN NUMBER:	22963B6
INSTRUMENT ID:	4500	UNITS:	UG/L (PPB)

	COMPOUND NAME	FRACTION	APPROXIMATE CONCENTRATION
1	NONE FOUND	VOA	

CLIENT: KENNEDY/JENKS CONSULTANTS SAMPLE: FB120892
WCAS JOB #: 22963

VOLATILE ORGANICS BY EPA 624/8240

DATE RECEIVED: 12/08/92 MATRIX: WATER
DATE EXTRACTED: 12/14/92 SAMPLE AMOUNT: 5ML
DATE ANALYZED: 12/15/92 RUN NUMBER: 22963B7
INSTRUMENT ID: 4500 UNITS: UG/L (PPB)

CAS NO.	COMPOUND	CONCENTRATION	DET LIMIT
67-64-1	ACETONE	ND	5.
71-43-2	BENZENE	ND	1.
75-27-4	BROMODICHLOROMETHANE	ND	1.
75-25-2	BROMOFORM	ND	1.
74-83-9	BROMOMETHANE	ND	5.
78-93-3	2-BUTANONE (MEK)	ND	5.
75-15-0	CARBON DISULFIDE	ND	1.
56-23-5	CARBON TETRACHLORIDE	ND	1.
108-90-7	CHLOROBENZENE	ND	1.
75-00-3	CHLOROETHANE	ND	5.
67-66-3	CHLOROFORM	ND	1.
74-87-3	CHLOROMETHANE	ND	5.
108-41-8	CHLOROTOLUENE	ND	1.
124-48-1	DIBROMOCHLOROMETHANE	ND	1.
95-50-1	1,2-DICHLOROBENZENE	ND	1.
541-73-1	1,3-DICHLOROBENZENE	ND	1.
106-46-7	1,4-DICHLOROBENZENE	ND	1.
75-34-3	1,1-DICHLOROETHANE	ND	1.
107-06-2	1,2-DICHLOROETHANE	ND	1.
75-35-4	1,1-DICHLOROETHYLENE	ND	1.
156-59-4	CIS-1,2-DICHLOROETHYLENE	ND	1.
156-60-5	TRANS-1,2-DICHLOROETHYLENE	ND	1.
78-87-5	1,2-DICHLOROPROPANE	ND	1.
10061-01-5	CIS-1,3-DICHLOROPROPENE	ND	1.
10061-02-6	TRANS-1,3-DICHLOROPROPENE	ND	1.
100-41-4	ETHYLBENZENE	ND	1.
106-93-4	ETHYLENE DIBROMIDE	ND	1.
76-13-1	FREON-TF	ND	1.
119-78-6	2-HEXANONE	ND	5.
75-09-2	METHYLENE CHLORIDE	2.	1.
108-10-1	4-METHYL-2-PENTANONE (MIBK)	ND	5.
100-42-5	STYRENE	ND	1.
79-34-5	1,1,2,2-TETRACHLOROETHANE	ND	1.
127-18-4	TETRACHLOROETHYLENE	ND	1.
109-99-9	TETRAHYDROFURAN	ND	5.
108-88-3	TOLUENE	ND	1.
71-55-6	1,1,1-TRICHLOROETHANE	ND	1.
79-00-5	1,1,2-TRICHLOROETHANE	ND	1.
79-01-6	TRICHLOROETHYLENE	ND	1.
75-69-4	TRICHLOROFLUOROMETHANE	ND	1.
108-05-4	VINYL ACETATE	ND	5.
75-01-4	VINYL CHLORIDE	ND	5.
1330-20-7	TOTAL XYLENES	ND	1.

SURROGATE	1,2-DCA-d4	TOL-d8	BFB
PERCENT RECOVERY	101	99	106
CONTROL LIMITS	86-121	84-115	83-112

CLIENT: KENNEDY/JENKS CONSULTANTS SAMPLE: FB120892
WCAS JOB #: 22963

TENTATIVELY IDENTIFIED COMPOUNDS

DATE RECEIVED:	12/08/92	MATRIX:	WATER
DATE EXTRACTED:	12/14/92	SAMPLE AMOUNT:	5ML
DATE ANALYZED:	12/15/92	RUN NUMBER:	22963B7
INSTRUMENT ID:	4500	UNITS:	UG/L (PPB)

	COMPOUND NAME	FRACTION	APPROXIMATE CONCENTRATION
1	NONE FOUND	VOA	

CLIENT: KENNEDY/JENKS CONSULTANTS SAMPLE: TBDAC12792
WCAS JOB #: 22963

VOLATILE ORGANICS BY EPA 624/8240

DATE RECEIVED: 12/08/92
DATE EXTRACTED: 12/14/92
DATE ANALYZED: 12/15/92
INSTRUMENT ID: 4500

MATRIX: WATER
SAMPLE AMOUNT: 5ML
RUN NUMBER: 22963B8
UNITS: UG/L (PPB)

CAS NO.	COMPOUND	CONCENTRATION	DET LIMIT
67-64-1	ACETONE	ND	5.
71-43-2	BENZENE	ND	1.
75-27-4	BROMODICHLOROMETHANE	ND	1.
75-25-2	BROMOFORM	ND	1.
74-83-9	BROMOMETHANE	ND	5.
78-93-3	2-BUTANONE (MEK)	ND	5.
75-15-0	CARBON DISULFIDE	ND	1.
56-23-5	CARBON TETRACHLORIDE	ND	1.
108-90-7	CHLOROBENZENE	ND	1.
75-00-3	CHLOROETHANE	ND	5.
67-66-3	CHLOROFORM	ND	1.
74-87-3	CHLOROMETHANE	ND	5.
108-41-8	CHLOROTOLUENE	ND	1.
124-48-1	DIBROMOCHLOROMETHANE	ND	1.
95-50-1	1,2-DICHLOROBENZENE	ND	1.
541-73-1	1,3-DICHLOROBENZENE	ND	1.
106-46-7	1,4-DICHLOROBENZENE	ND	1.
75-34-3	1,1-DICHLOROETHANE	ND	1.
107-06-2	1,2-DICHLOROETHANE	ND	1.
75-35-4	1,1-DICHLOROETHYLENE	ND	1.
156-59-4	CIS-1,2-DICHLOROETHYLENE	ND	1.
156-60-5	TRANS-1,2-DICHLOROETHYLENE	ND	1.
78-87-5	1,2-DICHLOROPROPANE	ND	1.
10061-01-5	CIS-1,3-DICHLOROPROPENE	ND	1.
10061-02-6	TRANS-1,3-DICHLOROPROPENE	ND	1.
100-41-4	ETHYLBENZENE	ND	1.
106-93-4	ETHYLENE DIBROMIDE	ND	1.
76-13-1	FREON-TF	ND	1.
119-78-6	2-HEXANONE	ND	5.
75-09-2	METHYLENE CHLORIDE	3.	1.
108-10-1	4-METHYL-2-PENTANONE (MIBK)	ND	5.
100-42-5	STYRENE	ND	1.
79-34-5	1,1,2,2-TETRACHLOROETHANE	ND	1.
127-18-4	TETRACHLOROETHYLENE	ND	1.
109-99-9	TETRAHYDROFURAN	ND	5.
108-88-3	TOLUENE	ND	1.
71-55-6	1,1,1-TRICHLOROETHANE	ND	1.
79-00-5	1,1,2-TRICHLOROETHANE	ND	1.
79-01-6	TRICHLOROETHYLENE	ND	1.
75-69-4	TRICHLOROFLUOROMETHANE	ND	1.
108-05-4	VINYL ACETATE	ND	5.
75-01-4	VINYL CHLORIDE	ND	5.
1330-20-7	TOTAL XYLENES	ND	1.

SURROGATE	1,2-DCA-d4	TOL-d8	BFB
PERCENT RECOVERY	97	97	109
CONTROL LIMITS	86-121	84-115	83-112

CLIENT: KENNEDY/JENKS CONSULTANTS SAMPLE: TBDAC12792
WCAS JOB #: 22963

TENTATIVELY IDENTIFIED COMPOUNDS

DATE RECEIVED:	12/08/92	MATRIX:	WATER
DATE EXTRACTED:	12/14/92	SAMPLE AMOUNT:	5ML
DATE ANALYZED:	12/15/92	RUN NUMBER:	22963B8
INSTRUMENT ID:	4500	UNITS:	UG/L (PPB)

	COMPOUND NAME	FRACTION	APPROXIMATE CONCENTRATION
1	NONE FOUND	VOA	

CLIENT: KENNEDY/JENKS CONSULTANTS SAMPLE: WCC-1D-3
WCAS JOB #: 22963

VOLATILE ORGANICS BY EPA 624/8240

DATE RECEIVED: 12/08/92 MATRIX: WATER
DATE EXTRACTED: 12/14/92 SAMPLE AMOUNT: 5ML
DATE ANALYZED: 12/15/92 RUN NUMBER: 22963B9
INSTRUMENT ID: 4500 UNITS: UG/L (PPB)

CAS NO.	COMPOUND	CONCENTRATION	DET LIMIT
67-64-1	ACETONE	ND	5.
71-43-2	BENZENE	ND	1.
75-27-4	BROMODICHLOROMETHANE	ND	1.
75-25-2	BROMOFORM	ND	1.
74-83-9	BROMOMETHANE	ND	5.
78-93-3	2-BUTANONE (MEK)	ND	5.
75-15-0	CARBON DISULFIDE	ND	1.
56-23-5	CARBON TETRACHLORIDE	ND	1.
108-90-7	CHLOROBENZENE	ND	1.
75-00-3	CHLOROETHANE	ND	5.
67-66-3	CHLOROFORM	1.	1.
74-87-3	CHLOROMETHANE	ND	5.
108-41-8	CHLOROTOLUENE	ND	1.
124-48-1	DIBROMOCHLOROMETHANE	ND	1.
95-50-1	1,2-DICHLOROBENZENE	ND	1.
541-73-1	1,3-DICHLOROBENZENE	ND	1.
106-46-7	1,4-DICHLOROBENZENE	ND	1.
75-34-3	1,1-DICHLOROETHANE	ND	1.
107-06-2	1,2-DICHLOROETHANE	ND	1.
75-35-4	1,1-DICHLOROETHYLENE	160.	1.
156-59-4	CIS-1,2-DICHLOROETHYLENE	2.	1.
156-60-5	TRANS-1,2-DICHLOROETHYLENE	ND	1.
78-87-5	1,2-DICHLOROPROPANE	ND	1.
10061-01-5	CIS-1,3-DICHLOROPROPENE	ND	1.
10061-02-6	TRANS-1,3-DICHLOROPROPENE	ND	1.
100-41-4	ETHYLBENZENE	ND	1.
106-93-4	ETHYLENE DIBROMIDE	ND	1.
76-13-1	FREON-TF	ND	1.
119-78-6	2-HEXANONE	ND	5.
75-09-2	METHYLENE CHLORIDE	2.	1.
108-10-1	4-METHYL-2-PENTANONE (MIBK)	ND	5.
100-42-5	STYRENE	ND	1.
79-34-5	1,1,2,2-TETRACHLOROETHANE	ND	1.
127-18-4	TETRACHLOROETHYLENE	ND	1.
109-99-9	TETRAHYDROFURAN	ND	5.
108-88-3	TOLUENE	ND	1.
71-55-6	1,1,1-TRICHLOROETHANE	8.	1.
79-00-5	1,1,2-TRICHLOROETHANE	ND	1.
79-01-6	TRICHLOROETHYLENE	41.	1.
75-69-4	TRICHLOROFLUOROMETHANE	ND	1.
108-05-4	VINYL ACETATE	ND	5.
75-01-4	VINYL CHLORIDE	ND	5.
1330-20-7	TOTAL XYLENES	ND	1.

SURROGATE	1,2-DCA-d4	TOL-d8	BFB
PERCENT RECOVERY	98	98	100
CONTROL LIMITS	86-121	84-115	83-112

CLIENT: KENNEDY/JENKS CONSULTANTS SAMPLE: WCC-1D-3
WCAS JOB #: 22963

TENTATIVELY IDENTIFIED COMPOUNDS

DATE RECEIVED:	12/08/92	MATRIX:	WATER
DATE EXTRACTED:	12/14/92	SAMPLE AMOUNT:	5ML
DATE ANALYZED:	12/15/92	RUN NUMBER:	22963B9
INSTRUMENT ID:	4500	UNITS:	UG/L (PPB)

	COMPOUND NAME	FRACTION	APPROXIMATE CONCENTRATION
1	NONE FOUND	VOA	

CLIENT: KENNEDY/JENKS CONSULTANTS SAMPLE: WCC-2S-3
WCAS JOB #: 22963

VOLATILE ORGANICS BY EPA 624/8240

DATE RECEIVED: 12/08/92 MATRIX: WATER
DATE EXTRACTED: 12/16/92 SAMPLE AMOUNT: 5ML
DATE ANALYZED: 12/16/92 RUN NUMBER: 22963B30
INSTRUMENT ID: 4500 UNITS: UG/L (PPB)

CAS NO.	COMPOUND	CONCENTRATION		DET LIMIT
67-64-1	ACETONE	6.		5.
71-43-2	BENZENE	ND		1.
75-27-4	BROMODICHLOROMETHANE	ND		1.
75-25-2	BROMOFORM	ND		1.
74-83-9	BROMOMETHANE	ND		5.
78-93-3	2-BUTANONE (MEK)	ND		5.
75-15-0	CARBON DISULFIDE	ND		1.
56-23-5	CARBON TETRACHLORIDE	ND		1.
108-90-7	CHLOROBENZENE	ND		1.
75-00-3	CHLOROETHANE	ND		5.
67-66-3	CHLOROFORM	ND		1.
74-87-3	CHLOROMETHANE	ND		5.
108-41-8	CHLOROTOLUENE	ND		1.
124-48-1	DIBROMOCHLOROMETHANE	ND		1.
95-50-1	1,2-DICHLOROBENZENE	ND		1.
541-73-1	1,3-DICHLOROBENZENE	ND		1.
106-46-7	1,4-DICHLOROBENZENE	ND		1.
75-34-3	1,1-DICHLOROETHANE	ND		1.
107-06-2	1,2-DICHLOROETHANE	ND		1.
75-35-4	1,1-DICHLOROETHYLENE	49.		1.
156-59-4	CIS-1,2-DICHLOROETHYLENE	ND		1.
156-60-5	TRANS-1,2-DICHLOROETHYLENE	ND		1.
78-87-5	1,2-DICHLOROPROPANE	ND		1.
10061-01-5	CIS-1,3-DICHLOROPROPENE	ND		1.
10061-02-6	TRANS-1,3-DICHLOROPROPENE	ND		1.
100-41-4	ETHYLBENZENE	ND		1.
106-93-4	ETHYLENE DIBROMIDE	ND		1.
76-13-1	FREON-TF	ND		1.
119-78-6	2-HEXANONE	ND		5.
75-09-2	METHYLENE CHLORIDE	5.	B	1.
108-10-1	4-METHYL-2-PENTANONE (MIBK)	ND		5.
100-42-5	STYRENE	ND		1.
79-34-5	1,1,2,2-TETRACHLOROETHANE	ND		1.
127-18-4	TETRACHLOROETHYLENE	ND		1.
109-99-9	TETRAHYDROFURAN	ND		5.
108-88-3	TOLUENE	ND		1.
71-55-6	1,1,1-TRICHLOROETHANE	2.		1.
79-00-5	1,1,2-TRICHLOROETHANE	ND		1.
79-01-6	TRICHLOROETHYLENE	140.		1.
75-69-4	TRICHLOROFLUOROMETHANE	ND		1.
108-05-4	VINYL ACETATE	ND		5.
75-01-4	VINYL CHLORIDE	ND		5.
1330-20-7	TOTAL XYLENES	ND		1.

SURROGATE	1,2-DCA-d4	TOL-d8	BFB
PERCENT RECOVERY	106	99	106
CONTROL LIMITS	86-121	84-115	83-112

CLIENT: KENNEDY/JENKS CONSULTANTS SAMPLE: WCC-2S-3
WCAS JOB #: 22963

TENTATIVELY IDENTIFIED COMPOUNDS

DATE RECEIVED:	12/08/92	MATRIX:	WATER
DATE EXTRACTED:	12/16/92	SAMPLE AMOUNT:	5ML
DATE ANALYZED:	12/16/92	RUN NUMBER:	22963B30
INSTRUMENT ID:	4500	UNITS:	UG/L (PPB)

	COMPOUND NAME	FRACTION	APPROXIMATE CONCENTRATION
1	NONE FOUND	VOA	

CLIENT: KENNEDY/JENKS CONSULTANTS SAMPLE: WCC-3D-3
WCAS JOB #: 22963

VOLATILE ORGANICS BY EPA 624/8240

DATE RECEIVED: 12/08/92
DATE EXTRACTED: 12/14/92
DATE ANALYZED: 12/14/92
INSTRUMENT ID: 4500

MATRIX: WATER
SAMPLE AMOUNT: 5ML
RUN NUMBER: 22963B1
UNITS: UG/L (PPB)

CAS NO.	COMPOUND	CONCENTRATION	DET LIMIT
67-64-1	ACETONE	ND	5.
71-43-2	BENZENE	ND	1.
75-27-4	BROMODICHLOROMETHANE	ND	1.
75-25-2	BROMOFORM	ND	1.
74-83-9	BROMOMETHANE	ND	5.
78-93-3	2-BUTANONE (MEK)	ND	5.
75-15-0	CARBON DISULFIDE	ND	1.
56-23-5	CARBON TETRACHLORIDE	ND	1.
108-90-7	CHLOROBENZENE	ND	1.
75-00-3	CHLOROETHANE	ND	5.
67-66-3	CHLOROFORM	1.	1.
74-87-3	CHLOROMETHANE	ND	5.
108-41-8	CHLOROTOLUENE	ND	1.
124-48-1	DIBROMOCHLOROMETHANE	ND	1.
95-50-1	1,2-DICHLOROBENZENE	ND	1.
541-73-1	1,3-DICHLOROBENZENE	ND	1.
106-46-7	1,4-DICHLOROBENZENE	ND	1.
75-34-3	1,1-DICHLOROETHANE	ND	1.
107-06-2	1,2-DICHLOROETHANE	ND	1.
75-35-4	1,1-DICHLOROETHYLENE	120.	1.
156-59-4	CIS-1,2-DICHLOROETHYLENE	ND	1.
156-60-5	TRANS-1,2-DICHLOROETHYLENE	ND	1.
78-87-5	1,2-DICHLOROPROPANE	ND	1.
10061-01-5	CIS-1,3-DICHLOROPROPENE	ND	1.
10061-02-6	TRANS-1,3-DICHLOROPROPENE	ND	1.
100-41-4	ETHYLBENZENE	ND	1.
106-93-4	ETHYLENE DIBROMIDE	ND	1.
76-13-1	FREON-TF	ND	1.
119-78-6	2-HEXANONE	ND	5.
75-09-2	METHYLENE CHLORIDE	1.	1.
108-10-1	4-METHYL-2-PENTANONE (MIBK)	ND	5.
100-42-5	STYRENE	ND	1.
79-34-5	1,1,2,2-TETRACHLOROETHANE	ND	1.
127-18-4	TETRACHLOROETHYLENE	ND	1.
109-99-9	TETRAHYDROFURAN	ND	5.
108-88-3	TOLUENE	3.	1.
71-55-6	1,1,1-TRICHLOROETHANE	130.	1.
79-00-5	1,1,2-TRICHLOROETHANE	ND	1.
79-01-6	TRICHLOROETHYLENE	5.	1.
75-69-4	TRICHLOROFLUOROMETHANE	ND	1.
108-05-4	VINYL ACETATE	ND	5.
75-01-4	VINYL CHLORIDE	ND	5.
1330-20-7	TOTAL XYLENES	ND	1.

SURROGATE	1,2-DCA-d4	TOL-d8	BFB
PERCENT RECOVERY	102	98	100
CONTROL LIMITS	86-121	84-115	83-112

CLIENT: KENNEDY/JENKS CONSULTANTS SAMPLE: WCC-3D-3
WCAS JOB #: 22963

TENTATIVELY IDENTIFIED COMPOUNDS

DATE RECEIVED:	12/08/92	MATRIX:	WATER
DATE EXTRACTED:	12/14/92	SAMPLE AMOUNT:	5ML
DATE ANALYZED:	12/14/92	RUN NUMBER:	22963B1
INSTRUMENT ID:	4500	UNITS:	UG/L (PPB)

	COMPOUND NAME	FRACTION	APPROXIMATE CONCENTRATION
1	NONE FOUND	VOA	

CLIENT: KENNEDY/JENKS CONSULTANTS SAMPLE: WCC-4S-3
WCAS JOB #: 22963

VOLATILE ORGANICS BY EPA 624/8240

DATE RECEIVED: 12/08/92
DATE EXTRACTED: 12/16/92
DATE ANALYZED: 12/16/92
INSTRUMENT ID: 4500

MATRIX: WATER
SAMPLE AMOUNT: 500UL
RUN NUMBER: 22963B23
UNITS: UG/L (PPB)

CAS NO.	COMPOUND	CONCENTRATION		DET LIMIT
67-64-1	ACETONE	ND		50.
71-43-2	BENZENE	ND		10.
75-27-4	BROMODICHLOROMETHANE	ND		10.
75-25-2	BROMOFORM	ND		10.
74-83-9	BROMOMETHANE	ND		50.
78-93-3	2-BUTANONE (MEK)	ND		50.
75-15-0	CARBON DISULFIDE	ND		10.
56-23-5	CARBON TETRACHLORIDE	ND		10.
108-90-7	CHLOROBENZENE	ND		10.
75-00-3	CHLOROETHANE	ND		50.
67-66-3	CHLOROFORM	10.		10.
74-87-3	CHLOROMETHANE	ND		50.
108-41-8	CHLOROTOLUENE	ND		10.
124-48-1	DIBROMOCHLOROMETHANE	ND		10.
95-50-1	1,2-DICHLOROBENZENE	ND		10.
541-73-1	1,3-DICHLOROBENZENE	ND		10.
106-46-7	1,4-DICHLOROBENZENE	ND		10.
75-34-3	1,1-DICHLOROETHANE	ND		10.
107-06-2	1,2-DICHLOROETHANE	ND		10.
75-35-4	1,1-DICHLOROETHYLENE	1000.		10.
156-59-4	CIS-1,2-DICHLOROETHYLENE	10.		10.
156-60-5	TRANS-1,2-DICHLOROETHYLENE	ND		10.
78-87-5	1,2-DICHLOROPROPANE	ND		10.
10061-01-5	CIS-1,3-DICHLOROPROPENE	ND		10.
10061-02-6	TRANS-1,3-DICHLOROPROPENE	ND		10.
100-41-4	ETHYLBENZENE	ND		10.
106-93-4	ETHYLENE DIBROMIDE	ND		10.
76-13-1	FREON-TF	ND		10.
119-78-6	2-HEXANONE	ND		50.
75-09-2	METHYLENE CHLORIDE	50.	B	10.
108-10-1	4-METHYL-2-PENTANONE (MIBK)	ND		50.
100-42-5	STYRENE	ND		10.
79-34-5	1,1,2,2-TETRACHLOROETHANE	ND		10.
127-18-4	TETRACHLOROETHYLENE	ND		10.
109-99-9	TETRAHYDROFURAN	ND		50.
108-88-3	TOLUENE	ND		10.
71-55-6	1,1,1-TRICHLOROETHANE	20.		10.
79-00-5	1,1,2-TRICHLOROETHANE	ND		10.
79-01-6	TRICHLOROETHYLENE	1600.		10.
75-69-4	TRICHLOROFLUOROMETHANE	ND		10.
108-05-4	VINYL ACETATE	ND		50.
75-01-4	VINYL CHLORIDE	ND		50.
1330-20-7	TOTAL XYLENES	ND		10.

SURROGATE	1,2-DCA-d4	TOL-d8	BFB
PERCENT RECOVERY	101	99	103
CONTROL LIMITS	86-121	84-115	83-112

CLIENT: KENNEDY/JENKS CONSULTANTS SAMPLE: WCC-4S-3
WCAS JOB #: 22963

TENTATIVELY IDENTIFIED COMPOUNDS

DATE RECEIVED:	12/08/92	MATRIX:	WATER
DATE EXTRACTED:	12/16/92	SAMPLE AMOUNT:	500UL
DATE ANALYZED:	12/16/92	RUN NUMBER:	22963B23
INSTRUMENT ID:	4500	UNITS:	UG/L (PPB)

	COMPOUND NAME	FRACTION	APPROXIMATE CONCENTRATION
1	NONE FOUND	VOA	

CLIENT: KENNEDY/JENKS CONSULTANTS SAMPLE: WCC-5S-3
WCAS JOB #: 22963

VOLATILE ORGANICS BY EPA 624/8240

DATE RECEIVED: 12/08/92
DATE EXTRACTED: 12/16/92
DATE ANALYZED: 12/16/92
INSTRUMENT ID: 4500

MATRIX: WATER
SAMPLE AMOUNT: 5ML
RUN NUMBER: 22963B19
UNITS: UG/L (PPB)

CAS NO.	COMPOUND	CONCENTRATION		DET LIMIT
67-64-1	ACETONE	ND		5.
71-43-2	BENZENE	ND		1.
75-27-4	BROMODICHLOROMETHANE	ND		1.
75-25-2	BROMOFORM	ND		1.
74-83-9	BROMOMETHANE	ND		1.
78-93-3	2-BUTANONE (MEK)	ND		5.
75-15-0	CARBON DISULFIDE	ND		5.
56-23-5	CARBON TETRACHLORIDE	ND		1.
108-90-7	CHLOROBENZENE	ND		1.
75-00-3	CHLOROETHANE	ND		1.
67-66-3	CHLOROFORM	ND		5.
74-87-3	CHLOROMETHANE	ND		1.
108-41-8	CHLOROTOLUENE	ND		5.
124-48-1	DIBROMOCHLOROMETHANE	ND		1.
95-50-1	1,2-DICHLOROBENZENE	ND		1.
541-73-1	1,3-DICHLOROBENZENE	ND		1.
106-46-7	1,4-DICHLOROBENZENE	ND		1.
75-34-3	1,1-DICHLOROETHANE	ND		1.
107-06-2	1,2-DICHLOROETHANE	ND		1.
75-35-4	1,1-DICHLOROETHYLENE	ND		1.
156-59-4	CIS-1,2-DICHLOROETHYLENE	21.		1.
156-60-5	TRANS-1,2-DICHLOROETHYLENE	ND		1.
78-87-5	1,2-DICHLOROPROPANE	ND		1.
10061-01-5	CIS-1,3-DICHLOROPROPENE	ND		1.
10061-02-6	TRANS-1,3-DICHLOROPROPENE	ND		1.
100-41-4	ETHYLBENZENE	ND		1.
106-93-4	ETHYLENE DIBROMIDE	ND		1.
76-13-1	FREON-TF	ND		1.
119-78-6	2-HEXANONE	ND		1.
75-09-2	METHYLENE CHLORIDE	ND		5.
108-10-1	4-METHYL-2-PENTANONE (MIBK)	3.	B	1.
100-42-5	STYRENE	ND		5.
79-34-5	1,1,2,2-TETRACHLOROETHANE	ND		1.
127-18-4	TETRACHLOROETHYLENE	ND		1.
109-99-9	TETRAHYDROFURAN	ND		1.
108-88-3	TOLUENE	ND		5.
71-55-6	1,1,1-TRICHLOROETHANE	ND		1.
79-00-5	1,1,2-TRICHLOROETHANE	ND		1.
79-01-6	TRICHLOROETHYLENE	ND		1.
75-69-4	TRICHLOROFLUOROMETHANE	5.		1.
108-05-4	VINYL ACETATE	ND		1.
75-01-4	VINYL CHLORIDE	ND		5.
1330-20-7	TOTAL XYLENES	ND		5.
		ND		1.

SURROGATE	1,2-DCA-d4	TOL-d8	BFB
PERCENT RECOVERY	100	98	104
CONTROL LIMITS	86-121	84-115	83-112

CLIENT: KENNEDY/JENKS CONSULTANTS SAMPLE: WCC-5S-3
WCAS JOB #: 22963

TENTATIVELY IDENTIFIED COMPOUNDS

DATE RECEIVED:	12/08/92	MATRIX:	WATER
DATE EXTRACTED:	12/16/92	SAMPLE AMOUNT:	5ML
DATE ANALYZED:	12/16/92	RUN NUMBER:	22963B19
INSTRUMENT ID:	4500	UNITS:	UG/L (PPB)

	COMPOUND NAME	FRACTION	APPROXIMATE CONCENTRATION
1	NONE FOUND	VOA	

CLIENT: KENNEDY/JENKS CONSULTANTS SAMPLE: WCC-7S-3
WCAS JOB #: 22963

VOLATILE ORGANICS BY EPA 624/8240

DATE RECEIVED: 12/08/92
DATE EXTRACTED: 12/17/92
DATE ANALYZED: 12/17/92
INSTRUMENT ID: 4500

MATRIX: WATER
SAMPLE AMOUNT: 1ML
RUN NUMBER: 22963B31
UNITS: UG/L (PPB)

CAS NO.	COMPOUND	CONCENTRATION		DET LIMIT
67-64-1	ACETONE	ND		30.
71-43-2	BENZENE	ND		5.
75-27-4	BROMODICHLOROMETHANE	ND		5.
75-25-2	BROMOFORM	ND		5.
74-83-9	BROMOMETHANE	ND		30.
78-93-3	2-BUTANONE (MEK)	ND		30.
75-15-0	CARBON DISULFIDE	ND		5.
56-23-5	CARBON TETRACHLORIDE	ND		5.
108-90-7	CHLOROBENZENE	ND		5.
75-00-3	CHLOROETHANE	ND		30.
67-66-3	CHLOROFORM	ND		5.
74-87-3	CHLOROMETHANE	ND		30.
108-41-8	CHLOROTOLUENE	ND		5.
124-48-1	DIBROMOCHLOROMETHANE	ND		5.
95-50-1	1,2-DICHLOROBENZENE	ND		5.
541-73-1	1,3-DICHLOROBENZENE	ND		5.
106-46-7	1,4-DICHLOROBENZENE	ND		5.
75-34-3	1,1-DICHLOROETHANE	ND		5.
107-06-2	1,2-DICHLOROETHANE	ND		5.
75-35-4	1,1-DICHLOROETHYLENE	140.		5.
156-59-4	CIS-1,2-DICHLOROETHYLENE	ND		5.
156-60-5	TRANS-1,2-DICHLOROETHYLENE	ND		5.
78-87-5	1,2-DICHLOROPROPANE	ND		5.
10061-01-5	CIS-1,3-DICHLOROPROPENE	ND		5.
10061-02-6	TRANS-1,3-DICHLOROPROPENE	ND		5.
100-41-4	ETHYLBENZENE	ND		5.
106-93-4	ETHYLENE DIBROMIDE	ND		5.
76-13-1	FREON-TF	ND		5.
119-78-6	2-HEXANONE	ND		30.
75-09-2	METHYLENE CHLORIDE	10.	B	5.
108-10-1	4-METHYL-2-PENTANONE (MIBK)	ND		30.
100-42-5	STYRENE	ND		5.
79-34-5	1,1,2,2-TETRACHLOROETHANE	ND		5.
127-18-4	TETRACHLOROETHYLENE	ND		5.
109-99-9	TETRAHYDROFURAN	ND		30.
108-88-3	TOLUENE	ND		5.
71-55-6	1,1,1-TRICHLOROETHANE	ND		5.
79-00-5	1,1,2-TRICHLOROETHANE	ND		5.
79-01-6	TRICHLOROETHYLENE	430.		5.
75-69-4	TRICHLOROFLUOROMETHANE	ND		5.
108-05-4	VINYL ACETATE	ND		30.
75-01-4	VINYL CHLORIDE	ND		30.
1330-20-7	TOTAL XYLENES	ND		5.

SURROGATE	1,2-DCA-d4	TOL-d8	BFB
PERCENT RECOVERY	98	99	105
CONTROL LIMITS	86-121	84-115	83-112

CLIENT: KENNEDY/JENKS CONSULTANTS SAMPLE: WCC-7S-3
WCAS JOB #: 22963

TENTATIVELY IDENTIFIED COMPOUNDS

DATE RECEIVED:	12/08/92	MATRIX:	WATER
DATE EXTRACTED:	12/17/92	SAMPLE AMOUNT:	1ML
DATE ANALYZED:	12/17/92	RUN NUMBER:	22963B31
INSTRUMENT ID:	4500	UNITS:	UG/L (PPB)

	COMPOUND NAME	FRACTION	APPROXIMATE CONCENTRATION
1	NONE FOUND	VOA	

CLIENT: KENNEDY/JENKS CONSULTANTS SAMPLE: WCC-8S-3
WCAS JOB #: 22963

VOLATILE ORGANICS BY EPA 624/8240

DATE RECEIVED: 12/08/92 MATRIX: WATER
DATE EXTRACTED: 12/18/92 SAMPLE AMOUNT: 250UL
DATE ANALYZED: 12/18/92 RUN NUMBER: 22963B32
INSTRUMENT ID: 4500 UNITS: UG/L (PPB)

CAS NO.	COMPOUND	CONCENTRATION		DET LIMIT
67-64-1	ACETONE	ND		100.
71-43-2	BENZENE	20.		20.
75-27-4	BROMODICHLOROMETHANE	ND		20.
75-25-2	BROMOFORM	ND		20.
74-83-9	BROMOMETHANE	ND		100.
78-93-3	2-BUTANONE (MEK)	ND		100.
75-15-0	CARBON DISULFIDE	20		20.
56-23-5	CARBON TETRACHLORIDE	ND		20.
108-90-7	CHLOROBENZENE	ND		20.
75-00-3	CHLOROETHANE	ND		100.
67-66-3	CHLOROFORM	20.		20.
74-87-3	CHLOROMETHANE	ND		100.
108-41-8	CHLOROTOLUENE	ND		20.
124-48-1	DIBROMOCHLOROMETHANE	ND		20.
95-50-1	1,2-DICHLOROBENZENE	ND		20.
41-73-1	1,3-DICHLOROBENZENE	ND		20.
106-46-7	1,4-DICHLOROBENZENE	ND		20.
75-34-3	1,1-DICHLOROETHANE	ND		20.
107-06-2	1,2-DICHLOROETHANE	ND		20.
75-35-4	1,1-DICHLOROETHYLENE	2000.		20.
156-59-4	CIS-1,2-DICHLOROETHYLENE	20.		20.
156-60-5	TRANS-1,2-DICHLOROETHYLENE	30.		20.
78-87-5	1,2-DICHLOROPROPANE	ND		20.
10061-01-5	CIS-1,3-DICHLOROPROPENE	ND		20.
10061-02-6	TRANS-1,3-DICHLOROPROPENE	ND		20.
100-41-4	ETHYLBENZENE	ND		20.
106-93-4	ETHYLENE DIBROMIDE	ND		20.
76-13-1	FREON-TF	ND		20.
119-78-6	2-HEXANONE	ND		100.
75-09-2	METHYLENE CHLORIDE	30.	B	20.
108-10-1	4-METHYL-2-PENTANONE (MIBK)	ND		100.
100-42-5	STYRENE	ND		20.
79-34-5	1,1,2,2-TETRACHLOROETHANE	ND		20.
127-18-4	TETRACHLOROETHYLENE	ND		20.
109-99-9	TETRAHYDROFURAN	ND		100.
108-88-3	TOLUENE	ND		20.
71-55-6	1,1,1-TRICHLOROETHANE	100.		20.
79-00-5	1,1,2-TRICHLOROETHANE	ND		20.
79-01-6	TRICHLOROETHYLENE	2500.		20.
75-69-4	TRICHLOROFLUOROMETHANE	ND		20.
108-05-4	VINYL ACETATE	ND		100.
75-01-4	VINYL CHLORIDE	ND		100.
1330-20-7	TOTAL XYLENES	ND		20.

SURROGATE	1,2-DCA-d4	TOL-d8	BFB
PERCENT RECOVERY	103	98	107
CONTROL LIMITS	86-121	84-115	83-112

CLIENT: KENNEDY/JENKS CONSULTANTS SAMPLE: WCC-8S-3
WCAS JOB #: 22963

TENTATIVELY IDENTIFIED COMPOUNDS

DATE RECEIVED:	12/08/92	MATRIX:	WATER
DATE EXTRACTED:	12/18/92	SAMPLE AMOUNT:	250UL
DATE ANALYZED:	12/18/92	RUN NUMBER:	22963B32
INSTRUMENT ID:	4500	UNITS:	UG/L (PPB)

	COMPOUND NAME	FRACTION	APPROXIMATE CONCENTRATION
1	NONE FOUND	VOA	

CLIENT: KENNEDY/JENKS CONSULTANTS SAMPLE: WCC-9S-3
WCAS JOB #: 22963

VOLATILE ORGANICS BY EPA 624/8240

DATE RECEIVED: 12/08/92 MATRIX: WATER
DATE EXTRACTED: 12/16/92 SAMPLE AMOUNT: 5ML
DATE ANALYZED: 12/16/92 RUN NUMBER: 22963B22
INSTRUMENT ID: 4500 UNITS: UG/L (PPB)

CAS NO.	COMPOUND	CONCENTRATION		DET LIMIT
67-64-1	ACETONE	ND		5.
71-43-2	BENZENE	ND		1.
75-27-4	BROMODICHLOROMETHANE	ND		1.
75-25-2	BROMOFORM	ND		1.
74-83-9	BROMOMETHANE	ND		5.
78-93-3	2-BUTANONE (MEK)	ND		5.
75-15-0	CARBON DISULFIDE	ND		1.
56-23-5	CARBON TETRACHLORIDE	ND		1.
108-90-7	CHLOROBENZENE	ND		1.
75-00-3	CHLOROETHANE	ND		5.
67-66-3	CHLOROFORM	12.		1.
74-87-3	CHLOROMETHANE	ND		5.
108-41-8	CHLOROTOLUENE	ND		1.
124-48-1	DIBROMOCHLOROMETHANE	ND		1.
95-50-1	1,2-DICHLOROBENZENE	ND		1.
541-73-1	1,3-DICHLOROBENZENE	ND		1.
106-46-7	1,4-DICHLOROBENZENE	ND		1.
75-34-3	1,1-DICHLOROETHANE	ND		1.
107-06-2	1,2-DICHLOROETHANE	ND		1.
75-35-4	1,1-DICHLOROETHYLENE	10.		1.
156-59-4	CIS-1,2-DICHLOROETHYLENE	ND		1.
156-60-5	TRANS-1,2-DICHLOROETHYLENE	ND		1.
78-87-5	1,2-DICHLOROPROPANE	ND		1.
10061-01-5	CIS-1,3-DICHLOROPROPENE	ND		1.
10061-02-6	TRANS-1,3-DICHLOROPROPENE	ND		1.
100-41-4	ETHYLBENZENE	ND		1.
106-93-4	ETHYLENE DIBROMIDE	ND		1.
76-13-1	FREON-TF	ND		1.
119-78-6	2-HEXANONE	ND		5.
75-09-2	METHYLENE CHLORIDE	3.	B	1.
108-10-1	4-METHYL-2-PENTANONE (MIBK)	ND		5.
100-42-5	STYRENE	ND		1.
79-34-5	1,,,2,2-TETRACHLOROETHANE	ND		1.
127-18-4	TETRACHLOROETHYLENE	ND		1.
109-99-9	TETRAHYDROFURAN	ND		5.
108-88-3	TOLUENE	ND		1.
71-55-6	1,1,1-TRICHLOROETHANE	ND		1.
79-00-5	1,1,2-TRICHLOROETHANE	ND		1.
79-01-6	TRICHLOROETHYLENE	51.		1.
75-69-4	TRICHLOROFLUOROMETHANE	ND		1.
108-05-4	VINYL ACETATE	ND		5.
75-01-4	VINYL CHLORIDE	ND		5.
1330-20-7	TOTAL XYLENES	ND		1.

SURROGATE	1,2-DCA-d4	TOL-d8	BFB
PERCENT RECOVERY	99	98	105
CONTROL LIMITS	86-121	84-115	83-112

CLIENT: KENNEDY/JENKS CONSULTANTS SAMPLE: WCC-9S-3
WCAS JOB #: 22963

TENTATIVELY IDENTIFIED COMPOUNDS

DATE RECEIVED:	12/08/92	MATRIX:	WATER
DATE EXTRACTED:	12/16/92	SAMPLE AMOUNT:	5ML
DATE ANALYZED:	12/16/92	RUN NUMBER:	22963B22
INSTRUMENT ID:	4500	UNITS:	UG/L (PPB)

	COMPOUND NAME	FRACTION	APPROXIMATE CONCENTRATION
1	NONE FOUND	VOA	

CLIENT: KENNEDY/JENKS CONSULTANTS SAMPLE: WCC-10S-3
WCAS JOB #: 22963

VOLATILE ORGANICS BY EPA 624/8240

DATE RECEIVED: 12/08/92
DATE EXTRACTED: 12/16/92
DATE ANALYZED: 12/16/92
INSTRUMENT ID: 4500

MATRIX: WATER
SAMPLE AMOUNT: 5ML
RUN NUMBER: 22963B29
UNITS: UG/L (PPB)

CAS NO.	COMPOUND	CONCENTRATION		DET LIMIT
67-64-1	ACETONE	ND		5.
71-43-2	BENZENE	ND		1.
75-27-4	BROMODICHLOROMETHANE	ND		1.
75-25-2	BROMOFORM	ND		1.
74-83-9	BROMOMETHANE	ND		1.
78-93-3	2-BUTANONE (MEK)	ND		5.
75-15-0	CARBON DISULFIDE	ND		5.
56-23-5	CARBON TETRACHLORIDE	ND		1.
108-90-7	CHLOROBENZENE	ND		1.
75-00-3	CHLOROETHANE	ND		1.
67-66-3	CHLOROFORM	5.		5.
74-87-3	CHLOROMETHANE	ND		1.
108-41-8	CHLOROTOLUENE	ND		5.
124-48-1	DIBROMOCHLOROMETHANE	ND		1.
95-50-1	1,2-DICHLOROBENZENE	ND		1.
541-73-1	1,3-DICHLOROBENZENE	ND		1.
106-46-7	1,4-DICHLOROBENZENE	ND		1.
75-34-3	1,1-DICHLOROETHANE	ND		1.
107-06-2	1,2-DICHLOROETHANE	ND		1.
75-35-4	1,1-DICHLOROETHYLENE	ND		1.
156-59-4	CIS-1,2-DICHLOROETHYLENE	8.		1.
156-60-5	TRANS-1,2-DICHLOROETHYLENE	ND		1.
78-87-5	1,2-DICHLOROPROPANE	ND		1.
10061-01-5	CIS-1,3-DICHLOROPROPENE	ND		1.
10061-02-6	TRANS-1,3-DICHLOROPROPENE	ND		1.
100-41-4	ETHYLBENZENE	ND		1.
106-93-4	ETHYLENE DIBROMIDE	ND		1.
76-13-1	FREON-TF	ND		1.
119-78-6	2-HEXANONE	ND		1.
75-09-2	METHYLENE CHLORIDE	ND		5.
108-10-1	4-METHYL-2-PENTANONE (MIBK)	3.	B	1.
100-42-5	STYRENE	ND		5.
79-34-5	1,1,2,2-TETRACHLOROETHANE	ND		1.
127-18-4	TETRACHLOROETHYLENE	ND		1.
109-99-9	TETRAHYDROFURAN	ND		1.
108-88-3	TOLUENE	ND		5.
71-55-6	1,1,1-TRICHLOROETHANE	ND		1.
79-00-5	1,1,2-TRICHLOROETHANE	ND		1.
79-01-6	TRICHLOROETHYLENE	ND		1.
75-69-4	TRICHLOROFLUOROMETHANE	110.		1.
108-05-4	VINYL ACETATE	ND		1.
75-01-4	VINYL CHLORIDE	ND		5.
1330-20-7	TOTAL XYLENES	ND		5.
		ND		1.

SURROGATE	1,2-DCA-d4	TOL-d8	BFB
PERCENT RECOVERY	104	99	104
CONTROL LIMITS	86-121	84-115	83-112

CLIENT: KENNEDY/JENKS CONSULTANTS SAMPLE: WCC-10S-3
WCAS JOB #: 22963

TENTATIVELY IDENTIFIED COMPOUNDS

DATE RECEIVED:	12/08/92	MATRIX:	WATER
DATE EXTRACTED:	12/16/92	SAMPLE AMOUNT:	5ML
DATE ANALYZED:	12/16/92	RUN NUMBER:	22963B29
INSTRUMENT ID:	4500	UNITS:	UG/L (PPB)

	COMPOUND NAME	FRACTION	APPROXIMATE CONCENTRATION
1	NONE FOUND	VOA	

CLIENT: KENNEDY/JENKS CONSULTANTS SAMPLE: WCC-11S-3
WCAS JOB #: 22963

VOLATILE ORGANICS BY EPA 624/8240

DATE RECEIVED: 12/08/92 MATRIX: WATER
DATE EXTRACTED: 12/16/92 SAMPLE AMOUNT: 5ML
DATE ANALYZED: 12/16/92 RUN NUMBER: 22963B28
INSTRUMENT ID: 4500 UNITS: UG/L (PPB)

CAS NO.	COMPOUND	CONCENTRATION		DET LIMIT
67-64-1	ACETONE	ND		5.
71-43-2	BENZENE	ND		1.
75-27-4	BROMODICHLOROMETHANE	ND		1.
75-25-2	BROMOFORM	ND		1.
74-83-9	BROMOMETHANE	ND		5.
78-93-3	2-BUTANONE (MEK)	ND		5.
75-15-0	CARBON DISULFIDE	ND		1.
56-23-5	CARBON TETRACHLORIDE	ND		1.
108-90-7	CHLOROBENZENE	ND		1.
75-00-3	CHLOROETHANE	ND		5.
67-66-3	CHLOROFORM	ND		1.
74-87-3	CHLOROMETHANE	ND		5.
108-41-8	CHLOROTOLUENE	ND		1.
124-48-1	DIBROMOCHLOROMETHANE	ND		1.
95-50-1	1,2-DICHLOROBENZENE	ND		1.
541-73-1	1,3-DICHLOROBENZENE	ND		1.
106-46-7	1,4-DICHLOROBENZENE	ND		1.
75-34-3	1,1-DICHLOROETHANE	ND		1.
107-06-2	1,2-DICHLOROETHANE	ND		1.
75-35-4	1,1-DICHLOROETHYLENE	13.		1.
156-59-4	CIS-1,2-DICHLOROETHYLENE	6.		1.
156-60-5	TRANS-1,2-DICHLOROETHYLENE	ND		1.
78-87-5	1,2-DICHLOROPROPANE	ND		1.
10061-01-5	CIS-1,3-DICHLOROPROPENE	ND		1.
10061-02-6	TRANS-1,3-DICHLOROPROPENE	ND		1.
100-41-4	ETHYLBENZENE	ND		1.
106-93-4	ETHYLENE DIBROMIDE	ND		1.
76-13-1	FREON-TF	ND		1.
119-78-6	2-HEXANONE	ND		5.
75-09-2	METHYLENE CHLORIDE	4.	B	1.
108-10-1	4-METHYL-2-PENTANONE (MIBK)	ND		5.
100-42-5	STYRENE	ND		1.
79-34-5	1,1,2,2-TETRACHLOROETHANE	ND		1.
127-18-4	TETRACHLOROETHYLENE	ND		1.
109-99-9	TETRAHYDROFURAN	ND		5.
108-88-3	TOLUENE	ND		1.
71-55-6	1,1,1-TRICHLOROETHANE	ND		1.
79-00-5	1,1,2-TRICHLOROETHANE	ND		1.
79-01-6	TRICHLOROETHYLENE	83.		1.
75-69-4	TRICHLOROFLUOROMETHANE	ND		1.
108-05-4	VINYL ACETATE	ND		5.
75-01-4	VINYL CHLORIDE	ND		5.
1330-20-7	TOTAL XYLENES	ND		1.

SURROGATE	1,2-DCA-d4	TOL-d8	BFB
PERCENT RECOVERY	106	98	104
CONTROL LIMITS	86-121	84-115	83-112

CLIENT: KENNEDY/JENKS CONSULTANTS SAMPLE: WCC-11S-3
WCAS JOB #: 22963

TENTATIVELY IDENTIFIED COMPOUNDS

DATE RECEIVED:	12/08/92	MATRIX:	WATER
DATE EXTRACTED:	12/16/92	SAMPLE AMOUNT:	5ML
DATE ANALYZED:	12/16/92	RUN NUMBER:	22963B28
INSTRUMENT ID:	4500	UNITS:	UG/L (PPB)

	COMPOUND NAME	FRACTION	APPROXIMATE CONCENTRATION
1	NONE FOUND	VOA	

CLIENT: KENNEDY/JENKS CONSULTANTS SAMPLE: WCC-12S-3
WCAS JOB #: 22963

VOLATILE ORGANICS BY EPA 624/8240

DATE RECEIVED: 12/08/92
DATE EXTRACTED: 12/16/92
DATE ANALYZED: 12/16/92
INSTRUMENT ID: 4500

MATRIX: WATER
SAMPLE AMOUNT: 1ML
RUN NUMBER: 22963B26
UNITS: UG/L (PPB)

CAS NO.	COMPOUND	CONCENTRATION		DET LIMIT
67-64-1	ACETONE	ND		30.
71-43-2	BENZENE	ND		5.
75-27-4	BROMODICHLOROMETHANE	ND		5.
75-25-2	BROMOFORM	ND		5.
74-83-9	BROMOMETHANE	ND		30.
78-93-3	2-BUTANONE (MEK)	ND		30.
75-15-0	CARBON DISULFIDE	ND		5.
56-23-5	CARBON TETRACHLORIDE	ND		5.
108-90-7	CHLOROBENZENE	ND		5.
75-00-3	CHLOROETHANE	ND		30.
67-66-3	CHLOROFORM	ND		5.
74-87-3	CHLOROMETHANE	ND		30.
108-41-8	CHLOROTOLUENE	ND		5.
124-48-1	DIBROMOCHLOROMETHANE	ND		5.
95-50-1	1,2-DICHLOROBENZENE	ND		5.
541-73-1	1,3-DICHLOROBENZENE	ND		5.
106-46-7	1,4-DICHLOROBENZENE	ND		5.
75-34-3	1,1-DICHLOROETHANE	ND		5.
107-06-2	1,2-DICHLOROETHANE	ND		5.
75-35-4	1,1-DICHLOROETHYLENE	160.		5.
156-59-4	CIS-1,2-DICHLOROETHYLENE	5.		5.
156-60-5	TRANS-1,2-DICHLOROETHYLENE	ND		5.
78-87-5	1,2-DICHLOROPROPANE	ND		5.
10061-01-5	CIS-1,3-DICHLOROPROPENE	ND		5.
10061-02-6	TRANS-1,3-DICHLOROPROPENE	ND		5.
100-41-4	ETHYLBENZENE	ND		5.
106-93-4	ETHYLENE DIBROMIDE	ND		5.
76-13-1	FREON-TF	ND		5.
119-78-6	2-HEXANONE	ND		30.
75-09-2	METHYLENE CHLORIDE	20.	B	5.
108-10-1	4-METHYL-2-PENTANONE (MIBK)	ND		30.
100-42-5	STYRENE	ND		5.
79-34-5	1,1,2,2-TETRACHLOROETHANE	ND		5.
127-18-4	TETRACHLOROETHYLENE	ND		5.
109-99-9	TETRAHYDROFURAN	ND		30.
108-88-3	TOLUENE	ND		5.
71-55-6	1,1,1-TRICHLOROETHANE	ND		5.
79-00-5	1,1,2-TRICHLOROETHANE	ND		5.
79-01-6	TRICHLOROETHYLENE	550.		5.
75-69-4	TRICHLOROFLUOROMETHANE	ND		5.
108-05-4	VINYL ACETATE	ND		30.
75-01-4	VINYL CHLORIDE	ND		30.
1330-20-7	TOTAL XYLENES	ND		5.

SURROGATE	1,2-DCA-d4	TOL-d8	BFB
PERCENT RECOVERY	102	99	103
CONTROL LIMITS	86-121	84-115	83-112

CLIENT: KENNEDY/JENKS CONSULTANTS SAMPLE: WCC-12S-3
WCAS JOB #: 22963

TENTATIVELY IDENTIFIED COMPOUNDS

DATE RECEIVED:	12/08/92	MATRIX:	WATER
DATE EXTRACTED:	12/16/92	SAMPLE AMOUNT:	1ML
DATE ANALYZED:	12/16/92	RUN NUMBER:	22963B26
INSTRUMENT ID:	4500	UNITS:	UG/L (PPB)

	COMPOUND NAME	FRACTION	APPROXIMATE CONCENTRATION
1	NONE FOUND	VOA	

CLIENT: KENNEDY/JENKS CONSULTANTS SAMPLE: LAB BLANK
WCAS JOB #: 22963

VOLATILE ORGANICS BY EPA 624/8240

DATE RECEIVED: 12/14/92
DATE EXTRACTED: 12/14/92
DATE ANALYZED: 12/14/92
INSTRUMENT ID: 4500

MATRIX: WATER
SAMPLE AMOUNT: 5ML
RUN NUMBER: VBLK443
UNITS: UG/L (PPB)

CAS NO.	COMPOUND	CONCENTRATION	DET LIMIT
67-64-1	ACETONE	ND	5.
71-43-2	BENZENE	ND	1.
75-27-4	BROMODICHLOROMETHANE	ND	1.
75-25-2	BROMOFORM	ND	1.
74-83-9	BROMOMETHANE	ND	5.
78-93-3	2-BUTANONE (MEK)	ND	5.
75-15-0	CARBON DISULFIDE	ND	1.
56-23-5	CARBON TETRACHLORIDE	ND	1.
108-90-7	CHLOROBENZENE	ND	1.
75-00-3	CHLOROETHANE	ND	5.
67-66-3	CHLOROFORM	ND	1.
74-87-3	CHLOROMETHANE	ND	5.
108-41-8	CHLOROTOLUENE	ND	1.
124-48-1	DIBROMOCHLOROMETHANE	ND	1.
95-50-1	1,2-DICHLOROBENZENE	ND	1.
541-73-1	1,3-DICHLOROBENZENE	ND	1.
106-46-7	1,4-DICHLOROBENZENE	ND	1.
75-34-3	1,1-DICHLOROETHANE	ND	1.
107-06-2	1,2-DICHLOROETHANE	ND	1.
75-35-4	1,1-DICHLOROETHYLENE	ND	1.
156-59-4	CIS-1,2-DICHLOROETHYLENE	ND	1.
156-60-5	TRANS-1,2-DICHLOROETHYLENE	ND	1.
78-87-5	1,2-DICHLOROPROPANE	ND	1.
10061-01-5	CIS-1,3-DICHLOROPROPENE	ND	1.
10061-02-6	TRANS-1,3-DICHLOROPROPENE	ND	1.
100-41-4	ETHYLBENZENE	ND	1.
106-93-4	ETHYLENE DIBROMIDE	ND	1.
76-13-1	FREON-TF	ND	1.
119-78-6	2-HEXANONE	ND	5.
75-09-2	METHYLENE CHLORIDE	ND	1.
108-10-1	4-METHYL-2-PENTANONE (MIBK)	ND	5.
100-42-5	STYRENE	ND	1.
79-34-5	1,1,2,2-TETRACHLOROETHANE	ND	1.
127-18-4	TETRACHLOROETHYLENE	ND	1.
109-99-9	TETRAHYDROFURAN	ND	5.
108-88-3	TOLUENE	ND	1.
71-55-6	1,1,1-TRICHLOROETHANE	ND	1.
79-00-5	1,1,2-TRICHLOROETHANE	ND	1.
79-01-6	TRICHLOROETHYLENE	ND	1.
75-69-4	TRICHLOROFLUOROMETHANE	ND	1.
108-05-4	VINYL ACETATE	ND	5.
75-01-4	VINYL CHLORIDE	ND	5.
1330-20-7	TOTAL XYLENES	ND	1.

SURROGATE	1,2-DCA-d4	TOL-d8	BFB
PERCENT RECOVERY	102	99	107
CONTROL LIMITS	86-121	84-115	83-112

CLIENT: KENNEDY/JENKS CONSULTANTS SAMPLE: LAB BLANK
WCAS JOB #: 22963

TENTATIVELY IDENTIFIED COMPOUNDS

DATE RECEIVED:	12/14/92	MATRIX:	WATER
DATE EXTRACTED:	12/14/92	SAMPLE AMOUNT:	5ML
DATE ANALYZED:	12/14/92	RUN NUMBER:	VBLK443
INSTRUMENT ID:	4500	UNITS:	UG/L (PPB)

	COMPOUND NAME	FRACTION	APPROXIMATE CONCENTRATION
1	NONE FOUND	VOA	

CLIENT: KENNEDY/JENKS CONSULTANTS SAMPLE: LAB BLANK
WCAS JOB #: 22963

VOLATILE ORGANICS BY EPA 624/8240

DATE RECEIVED: 12/16/92
DATE EXTRACTED: 12/16/92
DATE ANALYZED: 12/16/92
INSTRUMENT ID: 4500

MATRIX: WATER
SAMPLE AMOUNT: 5ML
RUN NUMBER: VBLK446
UNITS: UG/L (PPB)

CAS NO.	COMPOUND	CONCENTRATION	DET LIMIT
67-64-1	ACETONE	ND	5.
71-43-2	BENZENE	ND	1.
75-27-4	BROMODICHLOROMETHANE	ND	1.
75-25-2	BROMOFORM	ND	1.
74-83-9	BROMOMETHANE	ND	5.
78-93-3	2-BUTANONE (MEK)	ND	5.
75-15-0	CARBON DISULFIDE	ND	1.
56-23-5	CARBON TETRACHLORIDE	ND	1.
108-90-7	CHLOROBENZENE	ND	1.
75-00-3	CHLOROETHANE	ND	5.
67-66-3	CHLOROFORM	ND	1.
74-87-3	CHLOROMETHANE	ND	5.
108-41-8	CHLOROTOLUENE	ND	1.
124-48-1	DIBROMOCHLOROMETHANE	ND	1.
95-50-1	1,2-DICHLOROBENZENE	ND	1.
541-73-1	1,3-DICHLOROBENZENE	ND	1.
106-46-7	1,4-DICHLOROBENZENE	ND	1.
75-34-3	1,1-DICHLOROETHANE	ND	1.
107-06-2	1,2-DICHLOROETHANE	ND	1.
75-35-4	1,1-DICHLOROETHYLENE	ND	1.
156-59-4	CIS-1,2-DICHLOROETHYLENE	ND	1.
156-60-5	TRANS-1,2-DICHLOROETHYLENE	ND	1.
78-87-5	1,2-DICHLOROPROPANE	ND	1.
10061-01-5	CIS-1,3-DICHLOROPROPENE	ND	1.
10061-02-6	TRANS-1,3-DICHLOROPROPENE	ND	1.
100-41-4	ETHYLBENZENE	ND	1.
106-93-4	ETHYLENE DIBROMIDE	ND	1.
76-13-1	FREON-TF	ND	1.
119-78-6	2-HEXANONE	ND	5.
75-09-2	METHYLENE CHLORIDE	2.	1.
108-10-1	4-METHYL-2-PENTANONE (MIBK)	ND	5.
100-42-5	STYRENE	ND	1.
79-34-5	1,1,2,2-TETRACHLOROETHANE	ND	1.
127-18-4	TETRACHLOROETHYLENE	ND	1.
109-99-9	TETRAHYDROFURAN	ND	5.
108-88-3	TOLUENE	ND	1.
71-55-6	1,1,1-TRICHLOROETHANE	ND	1.
79-00-5	1,1,2-TRICHLOROETHANE	ND	1.
79-01-6	TRICHLOROETHYLENE	ND	1.
75-69-4	TRICHLOROFLUOROMETHANE	ND	1.
108-05-4	VINYL ACETATE	ND	5.
75-01-4	VINYL CHLORIDE	ND	5.
1330-20-7	TOTAL XYLENES	ND	1.

SURROGATE	1,2-DCA-d4	TOL-d8	BFB
PERCENT RECOVERY	102	99	107
CONTROL LIMITS	86-121	84-115	83-112

CLIENT: KENNEDY/JENKS CONSULTANTS SAMPLE: LAB BLANK
WCAS JOB #: 22963

TENTATIVELY IDENTIFIED COMPOUNDS

DATE RECEIVED:	12/16/92	MATRIX:	WATER
DATE EXTRACTED:	12/16/92	SAMPLE AMOUNT:	5ML
DATE ANALYZED:	12/16/92	RUN NUMBER:	VBLK446
INSTRUMENT ID:	4500	UNITS:	UG/L (PPB)

	COMPOUND NAME	FRACTION	APPROXIMATE CONCENTRATION
1	NONE FOUND	VOA	

CLIENT: KENNEDY/JENKS CONSULTANTS SAMPLE: LAB BLANK
WCAS JOB #: 22963

VOLATILE ORGANICS BY EPA 624/8240

DATE RECEIVED: 12/17/92
DATE EXTRACTED: 12/17/92
DATE ANALYZED: 12/17/92
INSTRUMENT ID: 4500

MATRIX: WATER
SAMPLE AMOUNT: 5ML
RUN NUMBER: VBLK448
UNITS: UG/L (PPB)

CAS NO.	COMPOUND	CONCENTRATION	DET LIMIT
67-64-1	ACETONE	ND	5.
71-43-2	BENZENE	ND	1.
75-27-4	BROMODICHLOROMETHANE	ND	1.
75-25-2	BROMOFORM	ND	1.
74-83-9	BROMOMETHANE	ND	5.
78-93-3	2-BUTANONE (MEK)	ND	5.
75-15-0	CARBON DISULFIDE	ND	1.
56-23-5	CARBON TETRACHLORIDE	ND	1.
108-90-7	CHLOROBENZENE	ND	1.
75-00-3	CHLOROETHANE	ND	5.
67-66-3	CHLOROFORM	ND	1.
74-87-3	CHLOROMETHANE	ND	5.
108-41-8	CHLOROTOLUENE	ND	1.
124-48-1	DIBROMOCHLOROMETHANE	ND	1.
95-50-1	1,2-DICHLOROBENZENE	ND	1.
541-73-1	1,3-DICHLOROBENZENE	ND	1.
106-46-7	1,4-DICHLOROBENZENE	ND	1.
75-34-3	1,1-DICHLOROETHANE	ND	1.
107-06-2	1,2-DICHLOROETHANE	ND	1.
75-35-4	1,1-DICHLOROETHYLENE	ND	1.
156-59-4	CIS-1,2-DICHLOROETHYLENE	ND	1.
156-60-5	TRANS-1,2-DICHLOROETHYLENE	ND	1.
78-87-5	1,2-DICHLOROPROPANE	ND	1.
10061-01-5	CIS-1,3-DICHLOROPROPENE	ND	1.
10061-02-6	TRANS-1,3-DICHLOROPROPENE	ND	1.
100-41-4	ETHYLBENZENE	ND	1.
106-93-4	ETHYLENE DIBROMIDE	ND	1.
76-13-1	FREON-TF	ND	1.
119-78-6	2-HEXANONE	ND	5.
75-09-2	METHYLENE CHLORIDE	2.	1.
108-10-1	4-METHYL-2-PENTANONE (MIBK)	ND	5.
100-42-5	STYRENE	ND	1.
79-34-5	1,1,2,2-TETRACHLOROETHANE	ND	1.
127-18-4	TETRACHLOROETHYLENE	ND	1.
109-99-9	TETRAHYDROFURAN	ND	5.
108-88-3	TOLUENE	ND	1.
71-55-6	1,1,1-TRICHLOROETHANE	ND	1.
79-00-5	1,1,2-TRICHLOROETHANE	ND	1.
79-01-6	TRICHLOROETHYLENE	ND	1.
75-69-4	TRICHLOROFLUOROMETHANE	ND	1.
108-05-4	VINYL ACETATE	ND	5.
75-01-4	VINYL CHLORIDE	ND	5.
1330-20-7	TOTAL XYLENES	ND	1.

SURROGATE	1,2-DCA-d4	TOL-d8	BFB
PERCENT RECOVERY	100	98	106
CONTROL LIMITS	86-121	84-115	83-112

CLIENT: KENNEDY/JENKS CONSULTANTS SAMPLE: LAB BLANK
WCAS JOB #: 22963

TENTATIVELY IDENTIFIED COMPOUNDS

DATE RECEIVED:	12/17/92	MATRIX:	WATER
DATE EXTRACTED:	12/17/92	SAMPLE AMOUNT:	5ML
DATE ANALYZED:	12/17/92	RUN NUMBER:	VBLK448
INSTRUMENT ID:	4500	UNITS:	UG/L (PPB)

	COMPOUND NAME	FRACTION	APPROXIMATE CONCENTRATION
1	NONE FOUND	VOA	

CLIENT: WOODWARD-CLYDE CONSULTANTS SAMPLE: LAB BLANK
WCAS JOB #: 22963

VOLATILE ORGANICS BY EPA 624/8240

DATE RECEIVED: 12/18/92
DATE EXTRACTED: 12/18/92
DATE ANALYZED: 12/18/92
INSTRUMENT ID: 4500

MATRIX: WATER
SAMPLE AMOUNT: 5ML
RUN NUMBER: VBLK450
UNITS: UG/L (PPB)

CAS NO.	COMPOUND	CONCENTRATION	DET LIMIT
67-64-1	ACETONE	ND	5.
71-43-2	BENZENE	ND	1.
75-27-4	BROMODICHLOROMETHANE	ND	1.
75-25-2	BROMOFORM	ND	1.
74-83-9	BROMOMETHANE	ND	5.
78-93-3	2-BUTANONE (MEK)	ND	5.
75-15-0	CARBON DISULFIDE	ND	1.
56-23-5	CARBON TETRACHLORIDE	ND	1.
108-90-7	CHLOROBENZENE	ND	1.
75-00-3	CHLOROETHANE	ND	5.
67-66-3	CHLOROFORM	ND	1.
74-87-3	CHLOROMETHANE	ND	5.
108-41-8	CHLOROTOLUENE	ND	1.
124-48-1	DIBROMOCHLOROMETHANE	ND	1.
95-50-1	1,2-DICHLOROBENZENE	ND	1.
541-73-1	1,3-DICHLOROBENZENE	ND	1.
106-46-7	1,4-DICHLOROBENZENE	ND	1.
75-34-3	1,1-DICHLOROETHANE	ND	1.
107-06-2	1,2-DICHLOROETHANE	ND	1.
75-35-4	1,1-DICHLOROETHYLENE	ND	1.
156-59-4	CIS-1,2-DICHLOROETHYLENE	ND	1.
156-60-5	TRANS-1,2-DICHLOROETHYLENE	ND	1.
78-87-5	1,2-DICHLOROPROPANE	ND	1.
10061-01-5	CIS-1,3-DICHLOROPROPENE	ND	1.
10061-02-6	TRANS-1,3-DICHLOROPROPENE	ND	1.
100-41-4	ETHYLBENZENE	ND	1.
106-93-4	ETHYLENE DIBROMIDE	ND	1.
76-13-1	FREON-TF	ND	1.
119-78-6	2-HEXANONE	ND	5.
75-09-2	METHYLENE CHLORIDE	1.	1.
108-10-1	4-METHYL-2-PENTANONE (MIBK)	ND	5.
100-42-5	STYRENE	ND	1.
79-34-5	1,1,2,2-TETRACHLOROETHANE	ND	1.
127-18-4	TETRACHLOROETHYLENE	ND	1.
109-99-9	TETRAHYDROFURAN	ND	5.
108-88-3	TOLUENE	ND	1.
71-55-6	1,1,1-TRICHLOROETHANE	ND	1.
79-00-5	1,1,2-TRICHLOROETHANE	ND	1.
79-01-6	TRICHLOROETHYLENE	ND	1.
75-69-4	TRICHLOROFLUOROMETHANE	ND	1.
108-05-4	VINYL ACETATE	ND	5.
75-01-4	VINYL CHLORIDE	ND	5.
1330-20-7	TOTAL XYLENES	ND	1.

SURROGATE	1,2-DCA-d4	TOL-d8	BFB
PERCENT RECOVERY	99	101	102
CONTROL LIMITS	86-121	84-115	83-112

CLIENT: WOODWARD-CLYDE CONSULTANTS SAMPLE: LAB BLANK
WCAS JOB #: 22963

TENTATIVELY IDENTIFIED COMPOUNDS

DATE RECEIVED:	12/18/92	MATRIX:	WATER
DATE EXTRACTED:	12/18/92	SAMPLE AMOUNT:	5ML
DATE ANALYZED:	12/18/92	RUN NUMBER:	VBLK450
INSTRUMENT ID:	4500	UNITS:	UG/L (PPB)

	COMPOUND NAME	FRACTION	APPROXIMATE CONCENTRATION
1	NONE FOUND	VOA	

WEST COAST ANALYTICAL SERVICE, INC.

KENNEDY/JENKS CONSULTANTS
Mr. Joseph Montoya

Job # 22963
December 22, 1992

LABORATORY REPORT

MATRIX SPIKE/MATRIX SPIKE DUPLICATE
PERCENT RECOVERY AND RPD SUMMARY

SAMPLE ID: WCC-3D-3
MATRIX: WATER
UNITS: UG/L (PPB)

VOLATILE COMPOUNDS

COMPOUND	CONC SPIKED	CONC SAMPLE	CONC MS	% REC MS	CONC MSD	% REC MSD	RPD
1,1-DICHLOROETHYLENE	50.0	117.1	173.0	112	172.0	110	1
TRICHLOROETHYLENE	50.0	5.0	52.8	96	50.0	90	5
CHLOROBENZENE	50.0	ND	52.3	105	51.3	103	2
TOLUENE	50.0	2.7	50.3	95	48.5	92	4
BENZENE	50.0	ND	45.2	90	44.9	90	1

WATER QUALITY CONTROL LIMITS

ANALYTE	% RECOVERY WARNING	% RECOVERY CONTROL	RPD WARNING	RPD CONTROL
1,1-DICHLOROETHYLENE	52-155	25-182	24	36
TRICHLOROETHYLENE	59-120	44-135	13	18
CHLOROBENZENE	82-109	75-115	10	15
TOLUENE	80-116	71-125	13	19
BENZENE	73-125	60-138	14	19

Date Analyzed: 12/16/92

KENNEDY/JENKS CONSULTANTS
Mr. Joseph Montoya

Job # 22963
December 22, 1992

LABORATORY REPORT

MATRIX SPIKE/MATRIX SPIKE DUPLICATE
PERCENT RECOVERY AND RPD SUMMARY

SAMPLE ID: WCC-5S-3
MATRIX: WATER
UNITS: UG/L (PPB)

VOLATILE COMPOUNDS

COMPOUND	CONC SPIKED	CONC SAMPLE	CONC MS	% REC MS	CONC MSD	% REC MSD	RPD
1,1-DICHLOROETHYLENE	50.0	21.5	59.4	76	58.6	74	1
TRICHLOROETHYLENE	50.0	4.8	49.0	88	49.3	89	-1
CHLOROBENZENE	50.0	ND	49.3	99	50.2	100	-2
TOLUENE	50.0	ND	48.5	97	49.3	99	-2
BENZENE	50.0	ND	41.8	84	41.8	84	0

WATER QUALITY CONTROL LIMITS

ANALYTE	% RECOVERY WARNING	% RECOVERY CONTROL	RPD WARNING	RPD CONTROL
1,1-DICHLOROETHYLENE	52-155	25-182	24	36
TRICHLOROETHYLENE	59-120	44-135	13	18
CHLOROBENZENE	82-109	75-115	10	15
TOLUENE	80-116	71-125	13	19
BENZENE	73-125	60-138	14	19

Date Analyzed: 12/16/92

CLIENT: KENNEDY/JENKS CONSULTANTS SAMPLE: DAC-P1
WCAS JOB #: 22975

VOLATILE ORGANICS BY EPA 624/8240

DATE RECEIVED: 12/10/92
DATE EXTRACTED: 12/16/92
DATE ANALYZED: 12/16/92
INSTRUMENT ID: 4500

MATRIX: WATER
SAMPLE AMOUNT: 10UL
RUN NUMBER: 22975B7
UNITS: UG/L (PPB)

CAS NO.	COMPOUND	CONCENTRATION		DET LIMIT
67-64-1	ACETONE	ND		3000.
71-43-2	BENZENE	ND		500.
75-27-4	BROMODICHLOROMETHANE	ND		500.
75-25-2	BROMOFORM	ND		500.
74-83-9	BROMOMETHANE	ND		500.
78-93-3	2-BUTANONE (MEK)	ND		3000.
75-15-0	CARBON DISULFIDE	ND		3000.
56-23-5	CARBON TETRACHLORIDE	ND		500.
108-90-7	CHLOROBENZENE	ND		500.
75-00-3	CHLOROETHANE	ND		500.
67-66-3	CHLOROFORM	ND		3000.
74-87-3	CHLOROMETHANE	ND		500.
108-41-8	CHLOROTOLUENE	ND		3000.
124-48-1	DIBROMOCHLOROMETHANE	ND		500.
95-50-1	1,2-DICHLOROBENZENE	ND		500.
541-73-1	1,3-DICHLOROBENZENE	ND		500.
106-46-7	1,4-DICHLOROBENZENE	ND		500.
75-34-3	1,1-DICHLOROETHANE	ND		500.
107-06-2	1,2-DICHLOROETHANE	ND		500.
75-35-4	1,1-DICHLOROETHYLENE	ND		500.
156-59-4	CIS-1,2-DICHLOROETHYLENE	ND		500.
156-60-5	TRANS-1,2-DICHLOROETHYLENE	ND		500.
78-87-5	1,2-DICHLOROPROPANE	ND		500.
10061-01-5	CIS-1,3-DICHLOROPROPENE	ND		500.
10061-02-6	TRANS-1,3-DICHLOROPROPENE	ND		500.
100-41-4	ETHYLBENZENE	ND		500.
106-93-4	ETHYLENE DIBROMIDE	ND		500.
76-13-1	FREON-TF	ND		500.
119-78-6	2-HEXANONE	ND		500.
75-09-2	METHYLENE CHLORIDE	ND		3000.
108-10-1	4-METHYL-2-PENTANONE (MIBK)	2000.	B	500.
100-42-5	STYRENE	ND		3000.
79-34-5	1,1,2,2-TETRACHLOROETHANE	ND		500.
127-18-4	TETRACHLOROETHYLENE	ND		500.
109-99-9	TETRAHYDROFURAN	ND		500.
108-88-3	TOLUENE	ND		3000.
71-55-6	1,1,1-TRICHLOROETHANE	ND		500.
79-00-5	1,1,2-TRICHLOROETHANE	ND		500.
79-01-6	TRICHLOROETHYLENE	ND		500.
75-69-4	TRICHLOROFLUOROMETHANE	29000.		500.
108-05-4	VINYL ACETATE	ND		500.
75-01-4	VINYL CHLORIDE	ND		3000.
1330-20-7	TOTAL XYLENES	ND		3000.
		ND		500.

SURROGATE	1,2-DCA-d4	TOL-d8	BFB
PERCENT RECOVERY	95	99	104
CONTROL LIMITS	86-121	84-115	83-112

CLIENT: KENNEDY/JENKS CONSULTANTS SAMPLE: DAC-P1
WCAS JOB #: 22975

TENTATIVELY IDENTIFIED COMPOUNDS

DATE RECEIVED:	12/10/92	MATRIX:	WATER
DATE EXTRACTED:	12/16/92	SAMPLE AMOUNT:	10UL
DATE ANALYZED:	12/16/92	RUN NUMBER:	22975B7
INSTRUMENT ID:	4500	UNITS:	UG/L (PPB)

	COMPOUND NAME	FRACTION	APPROXIMATE CONCENTRATION
1	NONE FOUND	VOA	

CLIENT: KENNEDY/JENKS CONSULTANTS SAMPLE: DW12992
WCAS JOB #: 22975

VOLATILE ORGANICS BY EPA 624/8240

DATE RECEIVED: 12/10/92
DATE EXTRACTED: 12/17/92
DATE ANALYZED: 12/17/92
INSTRUMENT ID: 4500

MATRIX: WATER
SAMPLE AMOUNT: 50UL
RUN NUMBER: 22975B17
UNITS: UG/L (PPB)

CAS NO.	COMPOUND	CONCENTRATION		DET LIMIT
67-64-1	ACETONE	ND		500.
71-43-2	BENZENE	ND		100.
75-27-4	BROMODICHLOROMETHANE	ND		100.
75-25-2	BROMOFORM	ND		100.
74-83-9	BROMOMETHANE	ND		500.
78-93-3	2-BUTANONE (MEK)	5000.		500.
75-15-0	CARBON DISULFIDE	ND		100.
56-23-5	CARBON TETRACHLORIDE	ND		100.
108-90-7	CHLOROBENZENE	ND		100.
75-00-3	CHLOROETHANE	ND		500.
67-66-3	CHLOROFORM	ND		100.
74-87-3	CHLOROMETHANE	ND		500.
108-41-8	CHLOROTOLUENE	ND		100.
124-48-1	DIBROMOCHLOROMETHANE	ND		100.
95-50-1	1,2-DICHLOROBENZENE	ND		100.
541-73-1	1,3-DICHLOROBENZENE	ND		100.
106-46-7	1,4-DICHLOROBENZENE	ND		100.
75-34-3	1,1-DICHLOROETHANE	ND		100.
107-06-2	1,2-DICHLOROETHANE	ND		100.
75-35-4	1,1-DICHLOROETHYLENE	5600.		100.
156-59-4	CIS-1,2-DICHLOROETHYLENE	200.		100.
156-60-5	TRANS-1,2-DICHLOROETHYLENE	200.		100.
78-87-5	1,2-DICHLOROPROPANE	ND		100.
10061-01-5	CIS-1,3-DICHLOROPROPENE	ND		100.
10061-02-6	TRANS-1,3-DICHLOROPROPENE	ND		100.
100-41-4	ETHYLBENZENE	ND		100.
106-93-4	ETHYLENE DIBROMIDE	ND		100.
76-13-1	FREON-TF	ND		100.
119-78-6	2-HEXANONE	ND		500.
75-09-2	METHYLENE CHLORIDE	200.	B	100.
108-10-1	4-METHYL-2-PENTANONE (MIBK)	ND		500.
100-42-5	STYRENE	ND		100.
79-34-5	1,1,2,2-TETRACHLOROETHANE	ND		100.
127-18-4	TETRACHLOROETHYLENE	ND		100.
109-99-9	TETRAHYDROFURAN	ND		500.
108-88-3	TOLUENE	10000.		100.
71-55-6	1,1,1-TRICHLOROETHANE	1400.		100.
79-00-5	1,1,2-TRICHLOROETHANE	ND		100.
79-01-6	TRICHLOROETHYLENE	3200.		100.
75-69-4	TRICHLOROFLUOROMETHANE	ND		100.
108-05-4	VINYL ACETATE	ND		500.
75-01-4	VINYL CHLORIDE	ND		500.
1330-20-7	TOTAL XYLENES	ND		100.

SURROGATE	1,2-DCA-d4	TOL-d8	BFB
PERCENT RECOVERY	100	100	107
CONTROL LIMITS	86-121	84-115	83-112

CLIENT: KENNEDY/JENKS CONSULTANTS SAMPLE: DW12992
WCAS JOB #: 22975

TENTATIVELY IDENTIFIED COMPOUNDS

DATE RECEIVED:	12/10/92	MATRIX:	WATER
DATE EXTRACTED:	12/17/92	SAMPLE AMOUNT:	50UL
DATE ANALYZED:	12/17/92	RUN NUMBER:	22975B17
INSTRUMENT ID:	4500	UNITS:	UG/L (PPB)

	COMPOUND NAME	FRACTION	APPROXIMATE CONCENTRATION
1	NONE FOUND	VOA	

CLIENT: KENNEDY/JENKS CONSULTANTS SAMPLE: FB12992
WCAS JOB #: 22975

VOLATILE ORGANICS BY EPA 624/8240

DATE RECEIVED: 12/10/92 MATRIX: WATER
DATE EXTRACTED: 12/17/92 SAMPLE AMOUNT: 5ML
DATE ANALYZED: 12/17/92 RUN NUMBER: 22975B18
INSTRUMENT ID: 4500 UNITS: UG/L (PPB)

CAS NO.	COMPOUND	CONCENTRATION		DET LIMIT
67-64-1	ACETONE	ND		5.
71-43-2	BENZENE	ND		1.
75-27-4	BROMODICHLOROMETHANE	ND		1.
75-25-2	BROMOFORM	ND		1.
74-83-9	BROMOMETHANE	ND		5.
78-93-3	2-BUTANONE (MEK)	ND		5.
75-15-0	CARBON DISULFIDE	ND		1.
56-23-5	CARBON TETRACHLORIDE	ND		1.
108-90-7	CHLOROBENZENE	ND		1.
75-00-3	CHLOROETHANE	ND		5.
67-66-3	CHLOROFORM	ND		1.
74-87-3	CHLOROMETHANE	ND		5.
108-41-8	CHLOROTOLUENE	ND		1.
124-48-1	DIBROMOCHLOROMETHANE	ND		1.
95-50-1	1,2-DICHLOROBENZENE	ND		1.
541-73-1	1,3-DICHLOROBENZENE	ND		1.
106-46-7	1,4-DICHLOROBENZENE	ND		1.
75-34-3	1,1-DICHLOROETHANE	ND		1.
107-06-2	1,2-DICHLOROETHANE	ND		1.
75-35-4	1,1-DICHLOROETHYLENE	ND		1.
156-59-4	CIS-1,2-DICHLOROETHYLENE	ND		1.
156-60-5	TRANS-1,2-DICHLOROETHYLENE	ND		1.
78-87-5	1,2-DICHLOROPROPANE	ND		1.
10061-01-5	CIS-1,3-DICHLOROPROPENE	ND		1.
10061-02-6	TRANS-1,3-DICHLOROPROPENE	ND		1.
100-41-4	ETHYLBENZENE	ND		1.
106-93-4	ETHYLENE DIBROMIDE	ND		1.
76-13-1	FREON-TF	ND		1.
119-78-6	2-HEXANONE	ND		5.
75-09-2	METHYLENE CHLORIDE	4.	B	1.
108-10-1	4-METHYL-2-PENTANONE (MIBK)	ND		5.
100-42-5	STYRENE	ND		1.
79-34-5	1,1,2,2-TETRACHLOROETHANE	ND		1.
127-18-4	TETRACHLOROETHYLENE	ND		1.
109-99-9	TETRAHYDROFURAN	ND		5.
108-88-3	TOLUENE	ND		1.
71-55-6	1,1,1-TRICHLOROETHANE	ND		1.
79-00-5	1,1,2-TRICHLOROETHANE	ND		1.
79-01-6	TRICHLOROETHYLENE	ND		1.
75-69-4	TRICHLOROFLUOROMETHANE	ND		1.
108-05-4	VINYL ACETATE	ND		5.
75-01-4	VINYL CHLORIDE	ND		5.
1330-20-7	TOTAL XYLENES	ND		1.

SURROGATE	1,2-DCA-d4	TOL-d8	BFB
PERCENT RECOVERY	101	100	104
CONTROL LIMITS	86-121	84-115	83-112

CLIENT: KENNEDY/JENKS CONSULTANTS SAMPLE: FB12992
WCAS JOB #: 22975

TENTATIVELY IDENTIFIED COMPOUNDS

DATE RECEIVED:	12/10/92	MATRIX:	WATER
DATE EXTRACTED:	12/17/92	SAMPLE AMOUNT:	5ML
DATE ANALYZED:	12/17/92	RUN NUMBER:	22975B18
INSTRUMENT ID:	4500	UNITS:	UG/L (PPB)

	COMPOUND NAME	FRACTION	APPROXIMATE CONCENTRATION
1	NONE FOUND	VOA	

CLIENT: KENNEDY/JENKS CONSULTANTS SAMPLE: TB12992
WCAS JOB #: 22975

VOLATILE ORGANICS BY EPA 624/8240

DATE RECEIVED: 12/10/92
DATE EXTRACTED: 12/17/92
DATE ANALYZED: 12/17/92
INSTRUMENT ID: 4500

MATRIX: WATER
SAMPLE AMOUNT: 5ML
RUN NUMBER: 22975B19
UNITS: UG/L (PPB)

CAS NO.	COMPOUND	CONCENTRATION		DET LIMIT
67-64-1	ACETONE	ND		5.
71-43-2	BENZENE	ND		1.
75-27-4	BROMODICHLOROMETHANE	ND		1.
75-25-2	BROMOFORM	ND		1.
74-83-9	BROMOMETHANE	ND		5.
78-93-3	2-BUTANONE (MEK)	ND		5.
75-15-0	CARBON DISULFIDE	ND		1.
56-23-5	CARBON TETRACHLORIDE	ND		1.
108-90-7	CHLOROBENZENE	ND		1.
75-00-3	CHLOROETHANE	ND		5.
67-66-3	CHLOROFORM	ND		1.
74-87-3	CHLOROMETHANE	ND		5.
108-41-8	CHLOROTOLUENE	ND		1.
124-48-1	DIBROMOCHLOROMETHANE	ND		1.
95-50-1	1,2-DICHLOROBENZENE	ND		1.
541-73-1	1,3-DICHLOROBENZENE	ND		1.
106-46-7	1,4-DICHLOROBENZENE	ND		1.
75-34-3	1,1-DICHLOROETHANE	ND		1.
107-06-2	1,2-DICHLOROETHANE	ND		1.
75-35-4	1,1-DICHLOROETHYLENE	ND		1.
156-59-4	CIS-1,2-DICHLOROETHYLENE	ND		1.
156-60-5	TRANS-1,2-DICHLOROETHYLENE	ND		1.
78-87-5	1,2-DICHLOROPROPANE	ND		1.
10061-01-5	CIS-1,3-DICHLOROPROPENE	ND		1.
10061-02-6	TRANS-1,3-DICHLOROPROPENE	ND		1.
100-41-4	ETHYLBENZENE	ND		1.
106-93-4	ETHYLENE DIBROMIDE	ND		1.
76-13-1	FREON-TF	ND		1.
119-78-6	2-HEXANONE	ND		5.
75-09-2	METHYLENE CHLORIDE	4.	B	1.
108-10-1	4-METHYL-2-PENTANONE (MIBK)	ND		5.
100-42-5	STYRENE	ND		1.
79-34-5	1,1,2,2-TETRACHLOROETHANE	ND		1.
127-18-4	TETRACHLOROETHYLENE	ND		1.
109-99-9	TETRAHYDROFURAN	ND		5.
108-88-3	TOLUENE	ND		1.
71-55-6	1,1,1-TRICHLOROETHANE	ND		1.
79-00-5	1,1,2-TRICHLOROETHANE	ND		1.
79-01-6	TRICHLOROETHYLENE	ND		1.
75-69-4	TRICHLOROFLUOROMETHANE	ND		1.
108-05-4	VINYL ACETATE	ND		5.
75-01-4	VINYL CHLORIDE	ND		5.
1330-20-7	TOTAL XYLENES	ND		1.

SURROGATE	1,2-DCA-d4	TOL-d8	BFB
PERCENT RECOVERY	103	100	104
CONTROL LIMITS	86-121	84-115	83-112

CLIENT: KENNEDY/JENKS CONSULTANTS SAMPLE: TB12992
WCAS JOB #: 22975

TENTATIVELY IDENTIFIED COMPOUNDS

DATE RECEIVED:	12/10/92	MATRIX:	WATER
DATE EXTRACTED:	12/17/92	SAMPLE AMOUNT:	5ML
DATE ANALYZED:	12/17/92	RUN NUMBER:	22975B19
INSTRUMENT ID:	4500	UNITS:	UG/L (PPB)

	COMPOUND NAME	FRACTION	APPROXIMATE CONCENTRATION
1	NONE FOUND	VOA	

CLIENT: KENNEDY/JENKS CONSULTANTS SAMPLE: WCC-1S-3
WCAS JOB #: 22975

VOLATILE ORGANICS BY EPA 624/8240

DATE RECEIVED: 12/10/92
DATE EXTRACTED: 12/18/92
DATE ANALYZED: 12/18/92
INSTRUMENT ID: 4500

MATRIX: WATER
SAMPLE AMOUNT: 200UL
RUN NUMBER: 22975B25
UNITS: UG/L (PPB)

CAS NO.	COMPOUND	CONCENTRATION		DET LIMIT
67-64-1	ACETONE	ND		100.
71-43-2	BENZENE	30.		30.
75-27-4	BROMODICHLOROMETHANE	ND		30.
75-25-2	BROMOFORM	ND		30.
74-83-9	BROMOMETHANE	ND		100.
78-93-3	2-BUTANONE (MEK)	ND		100.
75-15-0	CARBON DISULFIDE	ND		30.
56-23-5	CARBON TETRACHLORIDE	ND		30.
108-90-7	CHLOROBENZENE	ND		30.
75-00-3	CHLOROETHANE	ND		100.
67-66-3	CHLOROFORM	ND		30.
74-87-3	CHLOROMETHANE	ND		100.
108-41-8	CHLOROTOLUENE	ND		30.
124-48-1	DIBROMOCHLOROMETHANE	ND		30.
95-50-1	1,2-DICHLOROBENZENE	ND		30.
541-73-1	1,3-DICHLOROBENZENE	ND		30.
106-46-7	1,4-DICHLOROBENZENE	ND		30.
75-34-3	1,1-DICHLOROETHANE	ND		30.
107-06-2	1,2-DICHLOROETHANE	ND		30.
75-35-4	1,1-DICHLOROETHYLENE	1500.		30.
156-59-4	CIS-1,2-DICHLOROETHYLENE	ND		30.
156-60-5	TRANS-1,2-DICHLOROETHYLENE	ND		30.
78-87-5	1,2-DICHLOROPROPANE	ND		30.
10061-01-5	CIS-1,3-DICHLOROPROPENE	ND		30.
10061-02-6	TRANS-1,3-DICHLOROPROPENE	ND		30.
100-41-4	ETHYLBENZENE	ND		30.
106-93-4	ETHYLENE DIBROMIDE	ND		30.
76-13-1	FREON-TF	ND		30.
119-78-6	2-HEXANONE	ND		100.
75-09-2	METHYLENE CHLORIDE	40.	B	30.
108-10-1	4-METHYL-2-PENTANONE (MIBK)	ND		100.
100-42-5	STYRENE	ND		30.
79-34-5	1,1,2,2-TETRACHLOROETHANE	ND		30.
127-18-4	TETRACHLOROETHYLENE	ND		30.
109-99-9	TETRAHYDROFURAN	ND		100.
108-88-3	TOLUENE	ND		30.
71-55-6	1,1,1-TRICHLOROETHANE	ND		30.
79-00-5	1,1,2-TRICHLOROETHANE	ND		30.
79-01-6	TRICHLOROETHYLENE	3100.		30.
75-69-4	TRICHLOROFLUOROMETHANE	ND		30.
108-05-4	VINYL ACETATE	ND		100.
75-01-4	VINYL CHLORIDE	ND		100.
1330-20-7	TOTAL XYLENES	ND		30.

SURROGATE	1,2-DCA-d4	TOL-d8	BFB
PERCENT RECOVERY	101	100	98
CONTROL LIMITS	86-121	84-115	83-112

CLIENT: KENNEDY/JENKS CONSULTANTS SAMPLE: WCC-1S-3
WCAS JOB #: 22975

TENTATIVELY IDENTIFIED COMPOUNDS

DATE RECEIVED:	12/10/92	MATRIX:	WATER
DATE EXTRACTED:	12/18/92	SAMPLE AMOUNT:	200UL
DATE ANALYZED:	12/18/92	RUN NUMBER:	22975B25
INSTRUMENT ID:	4500	UNITS:	UG/L (PPB)

	COMPOUND NAME	FRACTION	APPROXIMATE CONCENTRATION
1	NONE FOUND	VOA	

CLIENT: KENNEDY/JENKS CONSULTANTS SAMPLE: WCC-3S-3
WCAS JOB #: 22975

VOLATILE ORGANICS BY EPA 624/8240

DATE RECEIVED: 12/10/92
DATE EXTRACTED: 12/21/92
DATE ANALYZED: 12/21/92
INSTRUMENT ID: 4500

MATRIX: WATER
SAMPLE AMOUNT: 10UL
RUN NUMBER: 22975B28
UNITS: UG/L (PPB)

CAS NO.	COMPOUND	CONCENTRATION	DET LIMIT
67-64-1	ACETONE	ND	3000.
71-43-2	BENZENE	ND	500.
75-27-4	BROMODICHLOROMETHANE	ND	500.
75-25-2	BROMOFORM	ND	500.
74-83-9	BROMOMETHANE	ND	500.
78-93-3	2-BUTANONE (MEK)	ND	3000.
75-15-0	CARBON DISULFIDE	4000.	3000.
56-23-5	CARBON TETRACHLORIDE	ND	500.
108-90-7	CHLOROBENZENE	ND	500.
75-00-3	CHLOROETHANE	ND	500.
67-66-3	CHLOROFORM	ND	500.
74-87-3	CHLOROMETHANE	ND	3000.
108-41-8	CHLOROTOLUENE	ND	3000.
124-48-1	DIBROMOCHLOROMETHANE	ND	500.
95-50-1	1,2-DICHLOROBENZENE	ND	500.
541-73-1	1,3-DICHLOROBENZENE	ND	500.
106-46-7	1,4-DICHLOROBENZENE	ND	500.
75-34-3	1,1-DICHLOROETHANE	ND	500.
107-06-2	1,2-DICHLOROETHANE	ND	500.
75-35-4	1,1-DICHLOROETHYLENE	ND	500.
156-59-4	CIS-1,2-DICHLOROETHYLENE	21000.	500.
156-60-5	TRANS-1,2-DICHLOROETHYLENE	700.	500.
78-87-5	1,2-DICHLOROPROPANE	600.	500.
10061-01-5	CIS-1,3-DICHLOROPROPENE	ND	500.
10061-02-6	TRANS-1,3-DICHLOROPROPENE	ND	500.
100-41-4	ETHYLBENZENE	ND	500.
106-93-4	ETHYLENE DIBROMIDE	ND	500.
76-13-1	FREON-TF	ND	500.
119-78-6	2-HEXANONE	ND	500.
75-09-2	METHYLENE CHLORIDE	ND	3000.
108-10-1	4-METHYL-2-PENTANONE (MIBK)	ND	500.
100-42-5	STYRENE	90000.	3000.
79-34-5	1,1,2,2-TETRACHLOROETHANE	ND	500.
127-18-4	TETRACHLOROETHYLENE	ND	500.
109-99-9	TETRAHYDROFURAN	ND	500.
108-88-3	TOLUENE	ND	3000.
71-55-6	1,1,1-TRICHLOROETHANE	44000.	500.
79-00-5	1,1,2-TRICHLOROETHANE	5600.	500.
79-01-6	TRICHLOROETHYLENE	ND	500.
75-69-4	TRICHLOROFLUOROMETHANE	11000.	500.
108-05-4	VINYL ACETATE	ND	500.
75-01-4	VINYL CHLORIDE	ND	3000.
1330-20-7	TOTAL XYLENES	ND	3000.
		ND	500.

SURROGATE	1,2-DCA-d4	TOL-d8	BFB
PERCENT RECOVERY	101	99	99
CONTROL LIMITS	86-121	84-115	83-112

CLIENT: KENNEDY/JENKS CONSULTANTS SAMPLE: WCC-3S-3
WCAS JOB #: 22975

TENTATIVELY IDENTIFIED COMPOUNDS

DATE RECEIVED:	12/10/92	MATRIX:	WATER
DATE EXTRACTED:	12/21/92	SAMPLE AMOUNT:	10UL
DATE ANALYZED:	12/21/92	RUN NUMBER:	22975B28
INSTRUMENT ID:	4500	UNITS:	UG/L (PPB)

	COMPOUND NAME	FRACTION	APPROXIMATE CONCENTRATION
1	NONE FOUND	VOA	

CLIENT: KENNEDY/JENKS CONSULTANTS SAMPLE: WCC-6S-3
WCAS JOB #: 22975

VOLATILE ORGANICS BY EPA 624/8240

DATE RECEIVED: 12/10/92
DATE EXTRACTED: 12/18/92
DATE ANALYZED: 12/18/92
INSTRUMENT ID: 4500

MATRIX: WATER
SAMPLE AMOUNT: 100UL
RUN NUMBER: 22975B27
UNITS: UG/L (PPB)

CAS NO.	COMPOUND	CONCENTRATION		DET LIMIT
67-64-1	ACETONE	ND		300.
71-43-2	BENZENE	80.		50.
75-27-4	BROMODICHLOROMETHANE	ND		50.
75-25-2	BROMOFORM	ND		50.
74-83-9	BROMOMETHANE	ND		300.
78-93-3	2-BUTANONE (MEK)	2000.		300.
75-15-0	CARBON DISULFIDE	ND		50.
56-23-5	CARBON TETRACHLORIDE	ND		50.
108-90-7	CHLOROBENZENE	ND		50.
75-00-3	CHLOROETHANE	ND		300.
67-66-3	CHLOROFORM	ND		50.
74-87-3	CHLOROMETHANE	ND		300.
108-41-8	CHLOROTOLUENE	ND		50.
124-48-1	DIBROMOCHLOROMETHANE	ND		50.
95-50-1	1,2-DICHLOROBENZENE	ND		50.
541-73-1	1,3-DICHLOROBENZENE	ND		50.
106-46-7	1,4-DICHLOROBENZENE	ND		50.
75-34-3	1,1-DICHLOROETHANE	80.		50.
107-06-2	1,2-DICHLOROETHANE	80.		50.
75-35-4	1,1-DICHLOROETHYLENE	3700.		50.
156-59-4	CIS-1,2-DICHLOROETHYLENE	200.		50.
156-60-5	TRANS-1,2-DICHLOROETHYLENE	100.		50.
78-87-5	1,2-DICHLOROPROPANE	ND		50.
10061-01-5	CIS-1,3-DICHLOROPROPENE	ND		50.
10061-02-6	TRANS-1,3-DICHLOROPROPENE	ND		50.
100-41-4	ETHYLBENZENE	ND		50.
106-93-4	ETHYLENE DIBROMIDE	ND		50.
76-13-1	FREON-TF	ND		50.
119-78-6	2-HEXANONE	ND		300.
75-09-2	METHYLENE CHLORIDE	100.	B	50.
108-10-1	4-METHYL-2-PENTANONE (MIBK)	3400.		300.
100-42-5	STYRENE	ND		50.
79-34-5	1,1,2,2-TETRACHLOROETHANE	ND		50.
127-18-4	TETRACHLOROETHYLENE	ND		50.
109-99-9	TETRAHYDROFURAN	ND		300.
108-88-3	TOLUENE	5000.		50.
71-55-6	1,1,1-TRICHLOROETHANE	680.		50.
79-00-5	1,1,2-TRICHLOROETHANE	60.		50.
79-01-6	TRICHLOROETHYLENE	2700.		50.
75-69-4	TRICHLOROFLUOROMETHANE	ND		50.
108-05-4	VINYL ACETATE	ND		300.
75-01-4	VINYL CHLORIDE	ND		300.
1330-20-7	TOTAL XYLENES	ND		50.

SURROGATE	1,2-DCA-d4	TOL-d8	BFB
PERCENT RECOVERY	98	101	106
CONTROL LIMITS	86-121	84-115	83-112

CLIENT: KENNEDY/JENKS CONSULTANTS SAMPLE: WCC-6S-3
WCAS JOB #: 22975

TENTATIVELY IDENTIFIED COMPOUNDS

DATE RECEIVED:	12/10/92	MATRIX:	WATER
DATE EXTRACTED:	12/18/92	SAMPLE AMOUNT:	100UL
DATE ANALYZED:	12/18/92	RUN NUMBER:	22975B27
INSTRUMENT ID:	4500	UNITS:	UG/L (PPB)

	COMPOUND NAME	FRACTION	APPROXIMATE CONCENTRATION
1	NONE FOUND	VOA	

CLIENT: KENNEDY/JENKS CONSULTANTS SAMPLE: LAB BLANK
WCAS JOB #: 22975

VOLATILE ORGANICS BY EPA 624/8240

DATE RECEIVED: 12/16/92 MATRIX: WATER
DATE EXTRACTED: 12/16/92 SAMPLE AMOUNT: 5ML
DATE ANALYZED: 12/16/92 RUN NUMBER: VBLK447
INSTRUMENT ID: 4500 UNITS: UG/L (PPB)

CAS NO.	COMPOUND	CONCENTRATION	DET LIMIT
67-64-1	ACETONE	ND	5.
71-43-2	BENZENE	ND	1.
75-27-4	BROMODICHLOROMETHANE	ND	1.
75-25-2	BROMOFORM	ND	1.
74-83-9	BROMOMETHANE	ND	5.
78-93-3	2-BUTANONE (MEK)	ND	5.
75-15-0	CARBON DISULFIDE	ND	1.
56-23-5	CARBON TETRACHLORIDE	ND	1.
108-90-7	CHLOROBENZENE	ND	1.
75-00-3	CHLOROETHANE	ND	5.
67-66-3	CHLOROFORM	ND	1.
74-87-3	CHLOROMETHANE	ND	5.
108-41-8	CHLOROTOLUENE	ND	1.
124-48-1	DIBROMOCHLOROMETHANE	ND	1.
95-50-1	1,2-DICHLOROBENZENE	ND	1.
541-73-1	1,3-DICHLOROBENZENE	ND	1.
106-46-7	1,4-DICHLOROBENZENE	ND	1.
75-34-3	1,1-DICHLOROETHANE	ND	1.
107-06-2	1,2-DICHLOROETHANE	ND	1.
75-35-4	1,1-DICHLOROETHYLENE	ND	1.
156-59-4	CIS-1,2-DICHLOROETHYLENE	ND	1.
156-60-5	TRANS-1,2-DICHLOROETHYLENE	ND	1.
78-87-5	1,2-DICHLOROPROPANE	ND	1.
10061-01-5	CIS-1,3-DICHLOROPROPENE	ND	1.
10061-02-6	TRANS-1,3-DICHLOROPROPENE	ND	1.
100-41-4	ETHYLBENZENE	ND	1.
106-93-4	ETHYLENE DIBROMIDE	ND	1.
76-13-1	FREON-TF	ND	1.
119-78-6	2-HEXANONE	ND	5.
75-09-2	METHYLENE CHLORIDE	3.	1.
108-10-1	4-METHYL-2-PENTANONE (MIBK)	ND	5.
100-42-5	STYRENE	ND	1.
79-34-5	1,1,2,2-TETRACHLOROETHANE	ND	1.
127-18-4	TETRACHLOROETHYLENE	ND	1.
109-99-9	TETRAHYDROFURAN	ND	5.
108-88-3	TOLUENE	ND	1.
71-55-6	1,1,1-TRICHLOROETHANE	ND	1.
79-00-5	1,1,2-TRICHLOROETHANE	ND	1.
79-01-6	TRICHLOROETHYLENE	ND	1.
75-69-4	TRICHLOROFLUOROMETHANE	ND	1.
108-05-4	VINYL ACETATE	ND	5.
75-01-4	VINYL CHLORIDE	ND	5.
1330-20-7	TOTAL XYLENES	ND	1.

SURROGATE	1,2-DCA-d4	TOL-d8	BFB
PERCENT RECOVERY	97	99	98
CONTROL LIMITS	86-121	84-115	83-112

CLIENT: KENNEDY/JENKS CONSULTANTS SAMPLE: LAB BLANK
WCAS JOB #: 22975

TENTATIVELY IDENTIFIED COMPOUNDS

DATE RECEIVED:	12/16/92	MATRIX:	WATER
DATE EXTRACTED:	12/16/92	SAMPLE AMOUNT:	5ML
DATE ANALYZED:	12/16/92	RUN NUMBER:	VBLK447
INSTRUMENT ID:	4500	UNITS:	UG/L (PPB)

	COMPOUND NAME	FRACTION	APPROXIMATE CONCENTRATION
1	NONE FOUND	VOA	

BOE-C6-0015876

CLIENT: KENNEDY/JENKS CONSULTANTS SAMPLE: LAB BLANK
WCAS JOB #: 22975

VOLATILE ORGANICS BY EPA 624/8240

DATE RECEIVED: 12/17/92 MATRIX: WATER
DATE EXTRACTED: 12/17/92 SAMPLE AMOUNT: 5ML
DATE ANALYZED: 12/17/92 RUN NUMBER: VBLK448
INSTRUMENT ID: 4500 UNITS: UG/L (PPB)

CAS NO.	COMPOUND	CONCENTRATION	DET LIMIT
67-64-1	ACETONE	ND	5.
71-43-2	BENZENE	ND	1.
75-27-4	BROMODICHLOROMETHANE	ND	1.
75-25-2	BROMOFORM	ND	1.
74-83-9	BROMOMETHANE	ND	5.
78-93-3	2-BUTANONE (MEK)	ND	5.
75-15-0	CARBON DISULFIDE	ND	1.
56-23-5	CARBON TETRACHLORIDE	ND	1.
108-90-7	CHLOROBENZENE	ND	1.
75-00-3	CHLOROETHANE	ND	5.
67-66-3	CHLOROFORM	ND	1.
74-87-3	CHLOROMETHANE	ND	5.
108-41-8	CHLOROTOLUENE	ND	1.
124-48-1	DIBROMOCHLOROMETHANE	ND	1.
95-50-1	1,2-DICHLOROBENZENE	ND	1.
541-73-1	1,3-DICHLOROBENZENE	ND	1.
106-46-7	1,4-DICHLOROBENZENE	ND	1.
75-34-3	1,1-DICHLOROETHANE	ND	1.
107-06-2	1,2-DICHLOROETHANE	ND	1.
75-35-4	1,1-DICHLOROETHYLENE	ND	1.
156-59-4	CIS-1,2-DICHLOROETHYLENE	ND	1.
156-60-5	TRANS-1,2-DICHLOROETHYLENE	ND	1.
78-87-5	1,2-DICHLOROPROPANE	ND	1.
10061-01-5	CIS-1,3-DICHLOROPROPENE	ND	1.
10061-02-6	TRANS-1,3-DICHLOROPROPENE	ND	1.
100-41-4	ETHYLBENZENE	ND	1.
106-93-4	ETHYLENE DIBROMIDE	ND	1.
76-13-1	FREON-TF	ND	1.
119-78-6	2-HEXANONE	ND	5.
75-09-2	METHYLENE CHLORIDE	2.	1.
108-10-1	4-METHYL-2-PENTANONE (MIBK)	ND	5.
100-42-5	STYRENE	ND	1.
79-34-5	1,1,2,2-TETRACHLOROETHANE	ND	1.
127-18-4	TETRACHLOROETHYLENE	ND	1.
109-99-9	TETRAHYDROFURAN	ND	5.
108-88-3	TOLUENE	ND	1.
71-55-6	1,1,1-TRICHLOROETHANE	ND	1.
79-00-5	1,1,2-TRICHLOROETHANE	ND	1.
79-01-6	TRICHLOROETHYLENE	ND	1.
75-69-4	TRICHLOROFLUOROMETHANE	ND	1.
108-05-4	VINYL ACETATE	ND	5.
75-01-4	VINYL CHLORIDE	ND	5.
1330-20-7	TOTAL XYLENES	ND	1.

SURROGATE	1,2-DCA-d4	TOL-d8	BFB
PERCENT RECOVERY	100	98	106
CONTROL LIMITS	86-121	84-115	83-112

CLIENT: KENNEDY/JENKS CONSULTANTS SAMPLE: LAB BLANK
WCAS JOB #: 22975

TENTATIVELY IDENTIFIED COMPOUNDS

DATE RECEIVED: 12/17/92
DATE EXTRACTED: 12/17/92
DATE ANALYZED: 12/17/92
INSTRUMENT ID: 4500

MATRIX: WATER
SAMPLE AMOUNT: 5ML
RUN NUMBER: VBLK448
UNITS: UG/L (PPB)

	COMPOUND NAME	FRACTION	APPROXIMATE CONCENTRATION
1	NONE FOUND	VOA	

CLIENT: KENNEDY/JENKS CONSULTANTS SAMPLE: LAB BLANK
WCAS JOB #: 22975

VOLATILE ORGANICS BY EPA 624/8240

DATE RECEIVED:	12/18/92	MATRIX:	WATER
DATE EXTRACTED:	12/18/92	SAMPLE AMOUNT:	5ML
DATE ANALYZED:	12/18/92	RUN NUMBER:	VBLK450
INSTRUMENT ID:	4500	UNITS:	UG/L (PPB)

CAS NO.	COMPOUND	CONCENTRATION	DET LIMIT
67-64-1	ACETONE	ND	5.
71-43-2	BENZENE	ND	1.
75-27-4	BROMODICHLOROMETHANE	ND	1.
75-25-2	BROMOFORM	ND	1.
74-83-9	BROMOMETHANE	ND	5.
78-93-3	2-BUTANONE (MEK)	ND	5.
75-15-0	CARBON DISULFIDE	ND	1.
56-23-5	CARBON TETRACHLORIDE	ND	1.
108-90-7	CHLOROBENZENE	ND	1.
75-00-3	CHLOROETHANE	ND	5.
67-66-3	CHLOROFORM	ND	1.
74-87-3	CHLOROMETHANE	ND	5.
108-41-8	CHLOROTOLUENE	ND	1.
124-48-1	DIBROMOCHLOROMETHANE	ND	1.
95-50-1	1,2-DICHLOROBENZENE	ND	1.
541-73-1	1,3-DICHLOROBENZENE	ND	1.
106-46-7	1,4-DICHLOROBENZENE	ND	1.
75-34-3	1,1-DICHLOROETHANE	ND	1.
107-06-2	1,2-DICHLOROETHANE	ND	1.
75-35-4	1,1-DICHLOROETHYLENE	ND	1.
156-59-4	CIS-1,2-DICHLOROETHYLENE	ND	1.
156-60-5	TRANS-1,2-DICHLOROETHYLENE	ND	1.
78-87-5	1,2-DICHLOROPROPANE	ND	1.
10061-01-5	CIS-1,3-DICHLOROPROPENE	ND	1.
10061-02-6	TRANS-1,3-DICHLOROPROPENE	ND	1.
100-41-4	ETHYLBENZENE	ND	1.
106-93-4	ETHYLENE DIBROMIDE	ND	1.
76-13-1	FREON-TF	ND	1.
119-78-6	2-HEXANONE	ND	5.
75-09-2	METHYLENE CHLORIDE	1.	1.
108-10-1	4-METHYL-2-PENTANONE (MIBK)	ND	5.
100-42-5	STYRENE	ND	1.
79-34-5	1,1,2,2-TETRACHLOROETHANE	ND	1.
127-18-4	TETRACHLOROETHYLENE	ND	1.
109-99-9	TETRAHYDROFURAN	ND	5.
108-88-3	TOLUENE	ND	1.
71-55-6	1,1,1-TRICHLOROETHANE	ND	1.
79-00-5	1,1,2-TRICHLOROETHANE	ND	1.
79-01-6	TRICHLOROETHYLENE	ND	1.
75-69-4	TRICHLOROFLUOROMETHANE	ND	1.
108-05-4	VINYL ACETATE	ND	5.
75-01-4	VINYL CHLORIDE	ND	5.
1330-20-7	TOTAL XYLENES	ND	1.

SURROGATE	1,2-DCA-d4	TOL-d8	BFB
PERCENT RECOVERY	99	101	102
CONTROL LIMITS	86-121	84-115	83-112

WCAS

CLIENT: KENNEDY/JENKS CONSULTANTS SAMPLE: LAB BLANK
WCAS JOB #: 22975

TENTATIVELY IDENTIFIED COMPOUNDS

DATE RECEIVED:	12/18/92	MATRIX:	WATER
DATE EXTRACTED:	12/18/92	SAMPLE AMOUNT:	5ML
DATE ANALYZED:	12/18/92	RUN NUMBER:	VBLK450
INSTRUMENT ID:	4500	UNITS:	UG/L (PPB)

	COMPOUND NAME	FRACTION	APPROXIMATE CONCENTRATION
1	NONE FOUND	VOA	

CLIENT: KENNEDY/JENKS CONSULTANTS SAMPLE: LAB BLANK
WCAS JOB #: 22975

VOLATILE ORGANICS BY EPA 624/8240

DATE RECEIVED:	12/21/92	MATRIX:	WATER
DATE EXTRACTED:	12/21/92	SAMPLE AMOUNT:	5ML
DATE ANALYZED:	12/21/92	RUN NUMBER:	VBLK451
INSTRUMENT ID:	4500	UNITS:	UG/L (PPB)

CAS NO.	COMPOUND	CONCENTRATION	DET LIMIT
67-64-1	ACETONE	ND	5.
71-43-2	BENZENE	ND	1.
75-27-4	BROMODICHLOROMETHANE	ND	1.
75-25-2	BROMOFORM	ND	1.
74-83-9	BROMOMETHANE	ND	5.
78-93-3	2-BUTANONE (MEK)	ND	5.
75-15-0	CARBON DISULFIDE	ND	1.
56-23-5	CARBON TETRACHLORIDE	ND	1.
108-90-7	CHLOROBENZENE	ND	1.
75-00-3	CHLOROETHANE	ND	5.
67-66-3	CHLOROFORM	ND	1.
74-87-3	CHLOROMETHANE	ND	5.
108-41-8	CHLOROTOLUENE	ND	1.
124-48-1	DIBROMOCHLOROMETHANE	ND	1.
95-50-1	1,2-DICHLOROBENZENE	ND	1.
541-73-1	1,3-DICHLOROBENZENE	ND	1.
106-46-7	1,4-DICHLOROBENZENE	ND	1.
75-34-3	1,1-DICHLOROETHANE	ND	1.
107-06-2	1,2-DICHLOROETHANE	ND	1.
75-35-4	1,1-DICHLOROETHYLENE	ND	1.
156-59-4	CIS-1,2-DICHLOROETHYLENE	ND	1.
156-60-5	TRANS-1,2-DICHLOROETHYLENE	ND	1.
78-87-5	1,2-DICHLOROPROPANE	ND	1.
10061-01-5	CIS-1,3-DICHLOROPROPENE	ND	1.
10061-02-6	TRANS-1,3-DICHLOROPROPENE	ND	1.
100-41-4	ETHYLBENZENE	ND	1.
106-93-4	ETHYLENE DIBROMIDE	ND	1.
76-13-1	FREON-TF	ND	1.
119-78-6	2-HEXANONE	ND	5.
75-09-2	METHYLENE CHLORIDE	1.	1.
108-10-1	4-METHYL-2-PENTANONE (MIBK)	ND	5.
100-42-5	STYRENE	ND	1.
79-34-5	1,1,2,2-TETRACHLOROETHANE	ND	1.
127-18-4	TETRACHLOROETHYLENE	ND	1.
109-99-9	TETRAHYDROFURAN	ND	5.
108-88-3	TOLUENE	ND	1.
71-55-6	1,1,1-TRICHLOROETHANE	ND	1.
79-00-5	1,1,2-TRICHLOROETHANE	ND	1.
79-01-6	TRICHLOROETHYLENE	ND	1.
75-69-4	TRICHLOROFLUOROMETHANE	ND	1.
108-05-4	VINYL ACETATE	ND	5.
75-01-4	VINYL CHLORIDE	ND	5.
1330-20-7	TOTAL XYLENES	ND	1.

SURROGATE	1,2-DCA-d4	TOL-d8	BFB
PERCENT RECOVERY	102	100	103
CONTROL LIMITS	86-121	84-115	83-112

CLIENT: KENNEDY/JENKS CONSULTANTS SAMPLE: LAB BLANK
WCAS JOB #: 22975

TENTATIVELY IDENTIFIED COMPOUNDS

DATE RECEIVED: 12/21/92
DATE EXTRACTED: 12/21/92
DATE ANALYZED: 12/21/92
INSTRUMENT ID: 4500

MATRIX: WATER
SAMPLE AMOUNT: 5ML
RUN NUMBER: VBLK451
UNITS: UG/L (PPB)

	COMPOUND NAME	FRACTION	APPROXIMATE CONCENTRATION
1	NONE FOUND	VOA	

WEST COAST ANALYTICAL SERVICE, INC.

KENNEDY/JENKS CONSULTANTS
Mr. Joseph Montoya

Job # 22975
December 22, 1992

LABORATORY REPORT

MATRIX SPIKE/MATRIX SPIKE DUPLICATE
PERCENT RECOVERY AND RPD SUMMARY

QC BATCH: 121692W
: WATER
UNITS: UG/L (PPB)

VOLATILE COMPOUNDS

COMPOUND	CONC SPIKED	CONC SAMPLE	CONC MS	% REC MS	CONC MSD	% REC MSD	RPD
1,1-DICHLOROETHYLENE	50.0	21.5	59.4	76	58.6	74	1
TRICHLOROETHYLENE	50.0	4.8	49.0	88	49.3	89	-1
CHLOROBENZENE	50.0	ND	49.3	99	50.2	100	-2
TOLUENE	50.0	ND	48.5	97	49.3	99	-2
BENZENE	50.0	ND	41.8	84	41.8	84	0

WATER QUALITY CONTROL LIMITS

ANALYTE	% RECOVERY WARNING	% RECOVERY CONTROL	RPD WARNING	RPD CONTROL
1,1-DICHLOROETHYLENE	52-155	25-182	24	36
TRICHLOROETHYLENE	59-120	44-135	13	18
CHLOROBENZENE	82-109	75-115	10	15
TOLUENE	80-116	71-125	13	19
BENZENE	73-125	60-138	14	19

Date Analyzed: 12/16/92

Abbreviations Summary

General Reporting Abbreviations:

B — Blank - Indicates that the compound was found in both the sample and the blank. The sample value is reported without blank subtraction. If the sample value is less than 10X the blank value times the sample dilution factor, the compound may be present as a laboratory contaminant.

D — Indicates that the sample was diluted, and consequently the surrogates were too dilute to accurately measure.

DL — Detection Limit - Is the minimum value which we believe can be detected in the sample with a high degree of confidence, taking into account dilution factors and interferences. The reported detection limits are equal to or greater than Method Detection Limits (MDL) to allow for day to day and instrument to instrument variations in sensitivity.

J — Indicates that the value is an estimate.

ND — Not Detected - Indicates that the compound was not found in the sample at or above the detection limit.

ppm, ppb — parts per million (billion) in liquids is usually equivalent to mg/l (ug/l), or in solids to mg/kg (ug/kg). In the gas phase it is equivalent to ul/l (ul/m^3).

TR — Trace - Indicates that the compound was observed at a value less than our normal reported Detection Limit (DL), but we feel its presence may be important to you. These values are subject to large errors and low degrees of confidence.

kg kilogram	mg milligram	l liter	m meter
g gram	ug microgram	ul microliter	

QC Abbreviations:

Control — Control Limits are determined from historical data for a QC parameter. The test value must be within this acceptable range for the test to be considered in control. Usually this range corresponds to the 99% confidence interval for the historical data.

% Error — Percent Error - This is a measure of accuracy based on the analysis of a Laboratory Control Standard (LCS). An LCS is a reference sample of known value such as an NIST Standard Reference Material (SRM). The % Error is expressed in percent as the difference between the known value and the experimental value, divided by the known value. The LCS may simply be a solution based standard which confirms calibration (ICV or CCV - initial or continuing calibration verification), or it may be a reference sample taken through preparation and analysis.

APPENDIX B

GROUNDWATER PURGE AND SAMPLE FORMS
WATER ELEVATION SUMMARY

GROUNDWATER SAMPLING RECORD

Facility Name DAC Date 12-7-92

Well Number WCC-31 Well Depth 140 Well Diameter 4" Casing Material PVC

Sampling Crew MLW, ____, ____, ____

Type of Pump 2" Submersible Sampler SS bailer

Weather Conditions RAIN

Time	Water Level	Pump	Volume Pumped (gal)	Pumping Rate (gpm)	Sample Collection	Temp (°C)	pH	Cond (uS)	Clarity
~~0956~~	71.70						~~8.27~~		
1105			5			20	8.56	790	silty
10 ~~1109~~			10			22	8.39	700	sl. silty
1225			15			21	8.04	670	"
1228			25			21	7.66	670	"
1232			40			21	7.76	670	Clear
1235			55			22	7.87	660	"
1237			70			22	7.92	640	"
1240			80			22	7.96	660	"
1243			95			22	8.05	660	"
1246			110			22	8.04	650	"
1249			130			22	8.07	650	"
125			140			22	8.07	650	"
JL	71.93			Air Monitor		<1			

3 Well Volumes = 140 gal (140 - 71.70) x 0.65 x 3 = 133.2 gal.

Reference Well Volumes
2" well=0.16 gal/ft
4" well=0.65 gal/ft
6" well=1.5 gal/ft

GROUNDWATER SAMPLING RECORD

Facility Name DAC Date 12-7-92

Well Number WCC-55 Well Depth 90 Well Diameter 4" Casing Material PVC

Sampling Crew MLW

Type of Pump 4" Submersible Sampler SS bailer

Weather Conditions Rain

Time	Water Level	Pump	Volume Pumped (gal)	Pumping Rate (gpm)	Sample Collection	Temp (°C)	pH	Cond (uS)	Clarity
1411			5			22	7.97	1570	silty
1414			10			22	7.82	1570	"
1418			15			23	7.96	1580	Clear
1421			20			22	7.97	1580	"
1424			25			22	7.90	1570	"
1427			35			22	7.91	1570	"
1430			46			22	7.87	1580	"
				Air Monitor	<				

3 Well Volumes = 46 gal (90 - 67.36) x 0.65 x 3 = 44 gal.

Reference Well Volumes
2" well=0.16 gal/ft
4" well=0.65 gal/ft
6" well=1.5 gal/ft

GROUNDWATER SAMPLING RECORD

Facility Name DAC Date 12-7-92

Well Number MW-1D Well Depth 140 Well Diameter 4" Casing Material PVC

Sampling Crew MLW, _____, _____, _____

Type of Pump 4" Submersible _____ Sampler SS bailer

Weather Conditions Rain

Time	Water Level	Pump	Volume Pumped (gal)	Pumping Rate (gpm)	Sample Collection	Temp (°C)	pH	Cond (uS)	Clarity
1525	71.19		5			20	8.49	750	clear
1527	70.18		15			22	8.34	710	"
1529			25			22	8.31	720	"
1531			35			22	8.30	720	"
1533			45			22	8.29	710	"
1535			60			22	8.28	720	"
1538			75			22	8.30	680	"
1541			90			22	8.28	700	"
1543			115			22	8.28	680	"
1546			137			22	8.24	680	"
					Air Monitor = <1				
end	71.19								

3 Well Volumes = 136 gal (140 - 70.18) x 0.65 x 3 = 136 gal

Reference Well Volumes
2" well=0.16 gal/ft
4" well=0.65 gal/ft
6" well=1.5 gal/ft

GROUNDWATER SAMPLING RECORD

Facility Name DAC Date 12/7/92

Well Number WCC-9S Well Depth 90' Well Diameter 4" Casing Material PVC

Sampling Crew MLW, ____, ____, ____

Type of Pump 4" Submersible Sampler SS bailer

Weather Conditions Rain

Time	Water Level	Pump	Volume Pumped (gal)	Pumping Rate (gpm)	Sample Collection	Temp (°C)	pH	Cond (uS)	Clarity
1634	66.56		5			19	8.20	1380	clear
1636			10			21	7.94	1230	"
1637			15			21	8.02	1180	"
1639			25			21	8.06	1190	"
1641			35			21	8.05	1180	"
1644			46			21	8.05	1180	"
end	~~7631~~								
					AIR MONITOR	<1			

3 Well Volumes = 40 gal. (90-66.56) x 0.65 x 3 = 46 gal.

Reference Well Volumes
2" well=0.16 gal/ft
4" well=0.65 gal/ft
6" well=1.5 gal/ft

GROUNDWATER SAMPLING RECORD

Facility Name DAC Date 12/8/92

Well Number WCC-23 Well Depth 90.5 Well Diameter 4" Casing Material PVC

Sampling Crew MLN, _____, _____, _____

Type of Pump 4" Submersible Sampler SS bailer

Weather Conditions Clear

Time	Water Level	Pump	Volume Pumped (gal)	Pumping Rate (gpm)	Sample Collection	Temp (°C)	pH	Cond (uS)	Clarity
745	70.15	2	2			19	8.55	1310	silty
747			5			21	8.29	1300	"
750			10			20	8.17	1320	"
753			15			22	8.18	1300	"
759			25			23	8.17	1290	clear
802			30			23	8.15	1270	"
809			40			22	8.11	1260	"
end	70.31								
					Air Monitoring		<1		

3 Well Volumes = 39 gal (90.5-70.15)(0.65)(3) = 39.7 gal.

Reference Well Volumes
2" well=0.16 gal/ft
4" well=0.65 gal/ft
6" well=1.5 gal/ft

GROUNDWATER SAMPLING RECORD

Facility Name DAC Date 12-8-92

Well Number WCC-105 Well Depth 90 Well Diameter 4" Casing Material PVC

Sampling Crew MLW, _____, _____, _____

Type of Pump 4" Submersible Sampler SS ~~bailer~~ bailer

Weather Conditions Clear

Time	Water Level	Pump	Volume Pumped (gal)	Pumping Rate (gpm)	Sample Collection	Temp (°C)	pH	Cond (uS)	Clarity
905	70.62		5			8.27	19	880	Clear
907			10			8.07	22	860	"
909			20			8.07	22	860	"
911			30			8.01	22	860	"
915			35			7.47	22	830	"
916			39			7.47	22	840	"
end	70.73				Air Monitor = <1				

3 Well Volumes = 38 gal (90-70.62)(0.65)(3) = 37.8 gal

Reference Well Volumes
2" well=0.16 gal/ft
4" well=0.65 gal/ft
6" well=1.5 gal/ft

GROUNDWATER SAMPLING RECORD

Facility Name DAC Date 12-8-92

Well Number WCC-115 Well Depth 90 Well Diameter 4" Casing Material PVC

Sampling Crew MLW, _____, _____, _____

Type of Pump 4" Submersible Sampler SS bailer

Weather Conditions Clear

Time	Water Level	Pump	Volume Pumped (gal)	Pumping Rate (gpm)	Sample Collection	Temp (°C)	pH	Cond (uS)	Clarity
1005	68.72		1			20	8.09	1320	silty
1006			5			21	7.89	1370	"
1009			10			21	7.92	1380	"
1012			15			21	7.86	1340	"
1015			20			22	7.95	1340	"
1019			25			22	7.93	1330	"
1022			30			22	8.01	1300	"
1025			35			22	7.96	1310	"
1029			42			22	7.96	1300	"
end	69.19				Air = <1				

3 Well Volumes = 42 gal (90-68.72)(0.65)(3) = 41.5 gal.

Reference Well Volumes
2" well=0.16 gal/ft
4" well=0.65 gal/ft
6" well=1.5 gal/ft

GROUNDWATER SAMPLING RECORD

Facility Name DAC Date 12-8-92

Well Number WCC-12S Well Depth 90 Well Diameter 4" Casing Material PVC

Sampling Crew MLW, , ,

Type of Pump 4" Submersible Sampler SS bailer

Weather Conditions Clear

Time	Water Level	Pump	Volume Pumped (gal)	Pumping Rate (gpm)	Sample Collection	Temp (°C)	pH	Cond (uS)	Clarity
1200	67.08		1			24	8.39	30	black silt
1202			5			22	8.21	1140	silty
1204			15			22	8.14	1040	"
1206			25			22	8.14	1010	"
1207			30			22	8.08	1010	"
1208			35			22	8.08	1000	clear
1210			45			22	8.05	1000	"
end	67.19								
					Clr = <1				

3 Well Volumes = 45 gal. (90-67.08)(0.65)(3) = 44.7 gal.

Reference Well Volumes
2" well=0.16 gal/ft
4" well=0.65 gal/ft
6" well=1.5 gal/ft

GROUNDWATER SAMPLING RECORD

Facility Name DAC Date 12-8-92

Well Number WCC-75 Well Depth 90 Well Diameter 4" Casing Material PVC

Sampling Crew MLW, , , ,

Type of Pump 4" Submersible Sampler SS bailer

Weather Conditions Clear

Time	Water Level	Pump	Volume Pumped (gal)	Pumping Rate (gpm)	Sample Collection	Temp (°C)	pH	Cond (uS)	Clarity
1247	68.45		1			22	8.26	950	Sl. Cloudy
1248			5			22	8.00	950	"
1250			10			22	8.04	870	clear
1252			15			22	8.03	830	"
1254			20			22	8.03	830	"
1256			25			22	7.97	810	"
1258			30			22	7.98	820	"
1303			45			22	8.02	820	"
end	68.75								
					Air = <1				

3 Well Volumes = 42 gal. (90-68.45)(0.65)(3) = 42 gal

Reference Well Volumes
2" well=0.16 gal/ft
4" well=0.65 gal/ft
6" well=1.5 gal/ft

GROUNDWATER SAMPLING RECORD

Facility Name DAC Date 8-12-8-92

Well Number MC45 Well Depth 90.5 Well Diameter 4" Casing Material PVC

Sampling Crew MLW, ____, ____, ____

Type of Pump 4" Submersible Sampler SS bailer

Weather Conditions Clear

Time	Water Level	Pump	Volume Pumped (gal)	Pumping Rate (gpm)	Sample Collection	Temp (°C)	pH	Cond (uS)	Clarity
1339	69.11		1			23	8.13	1300	Clear
1341			5			23	8.02	1280	"
1343			10			23	7.85	1290	"
1345			20			23	7.94	1220	"
1347			30			23	7.92	1200	"
1350			40			23	7.94	1160	"
1352			45			23	7.88	1150	"
PWL	69.45				Grab				

3 Well Volumes = 42 gal $(90.5 - 69.11)(0.65)(3) = 41.7$ gal.

Reference Well Volumes
2" well=0.16 gal/ft
4" well=0.65 gal/ft
6" well=1.5 gal/ft

GROUNDWATER SAMPLING RECORD

Facility Name DAC Date 12-8-92

Well Number MW-83 Well Depth 84.81 Well Diameter 4" Casing Material PVC

Sampling Crew MLW, ____, ____, ____

Type of Pump 4" Submersible Sampler SS bailer

Weather Conditions Clear

Time	Water Level	Pump	Volume Pumped (gal)	Pumping Rate (gpm)	Sample Collection	Temp (°C)	pH	Cond (uS)	Clarity
1435	69.83		1			21	8.08	1480	clear
1437			5			21	7.77	1490	"
1439			10			22	7.76	1470	"
1441			15			22	7.77	1440	"
1443			20			22	7.83	1370	"
1446			25			22	7.79	1340	"
1452			35			22	7.88	1270	"
1454			40			22	7.87	1270	"
					Air L				

3 Well Volumes = 38 gal. (89.5 − 69.83)(0.65)(3) = 38.4 gal.

Reference Well Volumes
2" well=0.16 gal/ft
4" well=0.65 gal/ft
6" well=1.5 gal/ft

GROUNDWATER SAMPLING RECORD

Facility Name DOE Date 12-9-92

Well Number WCC05 Well Depth 90' Well Diameter 4" Casing Material PVC

Sampling Crew MLW, ____, ____, ____

Type of Pump 4" Submersible Sampler SS bailer

Weather Conditions Clear

Time	Water Level	Pump	Volume Pumped (gal)	Pumping Rate (gpm)	Sample Collection	Temp (°C)	pH	Cond (uS)	Clarity
754	70.68		2			18	9.22	1350	Black silty
755			5			20	8.26	1350	"
757			10			20	8.125	1310	"
801			15			22	8.12	1290	Clear, solvent odor
804			20			22	8.07	1240	"
806			25			22	7.89	1270	"
809			30			22	7.95	1230	"
811			35			22	7.95	1200	"
814			40			22	8.00	1200	"
	70.93								
					air = <				

3 Well Volumes = 38 gal $(91 - 70.68)(0.65)(3) = 39.6$ gal

Reference Well Volumes
2" well=0.16 gal/ft
4" well=0.65 gal/ft
6" well=1.5 gal/ft

GROUNDWATER SAMPLING RECORD

Facility Name DAC Date 12-4-92

Well Number WCC/S Well Depth 88.5 Well Diameter 2" Casing Material PVC

Sampling Crew MLW, ____, ____, ____

Type of Pump Submersible Sampler SS bailer

Weather Conditions Clear

Time	Water Level	Pump	Volume Pumped (gal)	Pumping Rate (gpm)	Sample Collection	Temp (°C)	pH	Cond (uS)	Clarity
923	70.46	2				22	8.21	1380	silty
937		5				19	8.28	1280	"
950		7				22	8.43	1380	"
1000		10				22	8.46	1380	"
					air=<1				

3 Well Volumes = 8.8 gal (88.5 - 70.46)(0.16)(3) = 8.7 gal

Reference Well Volumes
2" well=0.16 gal/ft
4" well=0.65 gal/ft
6" well=1.5 gal/ft

GROUNDWATER SAMPLING RECORD

Facility Name DAC Date 12-9-92

Well Number MC35 Well Depth 89 Well Diameter 4" Casing Material PVC

Sampling Crew MLW, , , ,

Type of Pump Submersible Sampler SS bailer

Weather Conditions Clear

Time	Water Level	Pump	Volume Pumped (gal)	Pumping Rate (gpm)	Sample Collection	Temp (°C)	pH	Cond (uS)	Clarity
1035	70.96		1			14	8.41	2300	clear, sol. odr
1037			5			22	8.06	2300	"
1044			15			23	7.90	2160	"
1046			20			23	7.80	1970	"
1048			25			23	7.73	1970	"
1051			30			23	7.85	1860	"
1053	3		35			23	7.74	1840	"
1055	~~40~~		40			23	7.73	1820	"
	70.98								
					air				

3 Well Volumes = 36 gal $(89-70.96)(0.65)(3) = 35.2$ gal

Reference Well Volumes
2" well=0.16 gal/ft
4" well=0.65 gal/ft
6" well=1.5 gal/ft

GROUNDWATER SAMPLING RECORD

Facility Name DAC Date 12-9-92

Well Number DAC-P1 Well Depth 90' Well Diameter 4" Casing Material PVC

Sampling Crew MLW, , , ,

Type of Pump Submersible Sampler SS bailer

Weather Conditions Clear

Time	Water Level	Pump	Volume Pumped (gal)	Pumping Rate (gpm)	Sample Collection	Temp (°C)	pH	Cond (uS)	Clarity
1153	70.47			2		21	8.23	1560	silty, slight odor
1154				5		22	8.17	1550	"
1156				10		22	8.08	1570	"
1159				15		22	8.20	1420	"
1201				20		22	8.21	1400	"
1205				25		22	8.18	1420	Clear "
1208				30		22	8.20	1410	"
1214				40		22	8.20	1430	"
				Air =	<1				

3 Well Volumes = 38 gal (90-70.47)(0.65)(3) = 38.1 gal

Reference Well Volumes
2" well=0.16 gal/ft
4" well=0.65 gal/ft
6" well=1.5 gal/ft

APPENDIX C

CHAIN-OF-CUSTODY RECORDS

CHAIN OF CUSTODY RECORD

Client Name: Kennedy/Jenks Consultants
17310 Red Hill Ave #220
Irvine, CA 92714
Technical Contract: Joe Montoya

Phone No. (714) 261-1577
Fax No.
Proj. No. 924010.00
Proj. Name DAC

WEST COAST ANALYTICAL SERVICE, Inc.
9840 Alburtis Avenue
Santa Fe Springs, CA 90670
Phone: 213/948-2225 (310) FAX: 213/948-5850 (310)
JOB NO. #22963

Sample No.	Sample Description/Remarks	Analyses Requested: 8270	624
WCC-3D-3	2 40ml vials, water	X	
WCC-5D-3	" " " "	X	
WCC-10-3	" " " "	X	
WCC-95-3	" " " "	X	
WCC-25-3	" " " "	X	
WCC-105-3	" " " "	X	
WCC-115-3	" " " "	X	
FB120792	" " " "		X
FB120892	1 " " "		X
TBDAC12792	1 " " "		X
DW12792	2 " " "	X	

Date Sampled 12/07/92 & 12/08/92 Conditions of Samples

* Rec'd (2) Samples WCC-3D-1 instead of WCC-3D-3. DE

Total No. of Containers ... 20

Relinquished by: (Company & Signature)	Received for Lab by:	Date / Time
Mark L. Walden - K/J/C	Jeff	12/8/92 1600
(310) (310)	DE Northington WCAS	12/8/92 5:15

White Copy: Job Envelope Yellow Copy: Return with Lab Results Pink Copy: Client at time of sample delivery

CHAIN OF CUSTODY RECORD

Client Name: Kennedy/Jenks Consultants
17310 Red Hill Ave #220
Irvine, CA 92714
Technical Contract: Joe Montoya

Phone No. (714) 261-1577
Fax No.
Proj. No. 924010.00
Proj. Name DAC

WEST COAST ANALYTICAL SERVICE, Inc.
9840 Alburtis Avenue
Santa Fe Springs, CA 90670
Phone: 213/948-2225 FAX: 213/948-5850
JOB NO. (310) #22963 (310)

Sample No.	Sample Description/Remarks	Analyses Requested: 8240	~~6240~~
DW12892	2 40ml VOA Vials, water	X	
WCC-12S-3	" " " " "	X	
WCC-7S-3	" " " " "	X	
WCC-4S-3	" " " " "	X	
WCC-8S-3	" " " " "	X	

Date Sampled 12/08/92 Conditions of Samples

Total No. of Containers . . . 10

Relinquished by: (Company & Signature)	Received for Lab by:	Date / Time
Mick L. Walden - K/J/C	[signature]	12/8/92; 1600
	D. Northington	12/8/92 5:15

White Copy: Job Envelope Yellow Copy: Return with Lab Results Pink Copy: Client at time of sample delivery

CHAIN OF CUSTODY RECORD

Client Name: Kennedy / Jenks Consultants
17310 Red Hill Ave #220
Irvine, CA 92714
Technical Contract: Joe Montoya

Phone No. (714) 261-1577
Fax No.
Proj. No. 924010.00
Proj. Name DAC

WEST COAST ANALYTICAL SERVICE, Inc.
9840 Alburtis Avenue
Santa Fe Springs, CA 90670
Phone: 213/948-2225 (310) FAX: 213/948-5850 (310)
JOB NO. #22975

Sample No.	Sample Description/Remarks	Analyses Requested: 8240		624										
WCC-6S-3	2 40ml VOA VIALS	X												
DW12992	" " " "	X												
FB12992	1 " " "			X										
WCC-1S-3	2 " " "	X												
WCC-3S-3	" " " "	X												
DAC-P1	" " " "	X												
TB12992	1 " " "			X										

Date Sampled (310) 12-09-92 (310) Conditions of Samples 12 - good

Total No. of Containers . . . Twelve

Relinquished by: (Company & Signature)	Received for Lab by:	Date / Time
Mark Walker - K/J/C	Sonnet RABBIT #579	1155/12-10-92
	[illegible] WCAS	12:40 12-10-92

White Copy: Job Envelope Yellow Copy: Return with Lab Results Pink Copy: Client at time of sample delivery