GROUNDWATER MONITORING
DATA SUMMARY REPORT
SECOND QUARTER, 1992

DOUGLAS AIRCRAFT COMPANY C-6 FACILITY
TORRANCE, CALIFORNIA

K/J 924010.00
JULY 1992

Kennedy/Jenks Consultants

SCANNED

Kennedy/Jenks Consultants

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14 July 1992

Douglas Aircraft Company
3855 Lakewood Boulevard (74-41)
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Attention: Mr. Boramy Ith

Subject: Douglas Aircraft Company C-6 Facility
Groundwater Monitoring Data Summary Report
Second Quarter, 1992
K/J 924910.00

Kennedy/Jenks Consultants is pleased to submit this Groundwater Monitoring Data Summary Report, Second Quarter, 1992, for the Douglas Aircraft Company C-6 Facility located at 19503 South Normandie Avenue, Torrance, California. This report was prepared to fulfill quarterly groundwater quality monitoring as required by the California Regional Water Quality Control Board - Los Angeles Region in correspondence dated 7 April 1992.

If you have any questions concerning this report, please call.

Very truly yours,

KENNEDY/JENKS CONSULTANTS

Thomas C. Deane
Project Manager

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TCD:WRB/ca
92401000.007

GROUNDWATER MONITORING DATA SUMMARY REPORT
SECOND QUARTER, 1992

DOUGLAS AIRCRAFT COMPANY C-6 FACILITY
TORRANCE, CALIFORNIA
(K/J 924010.00)

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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 addressed to DAC and dated 7 April 1992. This report summarizes laboratory analytical data generated through the chemical analyis of groundwater samples collected during the period of 15-17 June 1992.

2.0 QUARTERLY MONITORING PROGRAM

Second Quarter 1992 groundwater sampling was performed in accordance with standard sampling procedures. Static water level depths were measured on 15 June 1992 prior to initiating purging of groundwater from any observation wells.

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 preceeding readings: pH, electrical conductivity, temperature and clarity. Purged groundwater was stored onsite in Baker tanks 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 preserved with HCl.

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 16 June 1992 was identified as "DW-061692". No further sample identification was provided to the laboratory.

2.2 Field QA/QC Procedures

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 16 June 1992 was identified as "TB-061692".

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 16 June 1992 was identified as "FB-061692". The well sampled following field blank preparation was recorded.

All groundwater, duplicate, trip blank and field blank samples were shipped in ice-cooled chests to Pacific Environmental Laboratory in San Francisco, 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 15 June 1992 (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 June 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.

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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 17,000 micrograms per liter (ug/L) to 21,000 ug/L.

- Background concentrations of TCE in the shallow zone upgradient wells WCC-10S, WCC-2S and WCC-11S have generally increased to 120 ug/L, 100 ug/L and 120 ug/l, respectively. In addition, acetone was detected for the first time in groundwater samples (WCC-10S).

- TCE and other VOC concentrations, in samples collected from shallow zone downgradient wells WCC-5S and WCC-9S, and WCC-12S, in conjunction with groundwater elevation data indicate that the groundwater gradient and attendant chemical transport is in a generally southerly direction in the vicinity of Building 36 (Figures 3 and 4). The data do not suggest chemical migration offsite.

- Low concentrations of chloroform (8-9 ug/L) were detected in all field blank samples. These concentrations are most likely due to the use of chlorinated (tap) water during steam-cleaning procedures.

- Samples from wells WCC-3S and WCC-1S reveal significantly lower concentrations of detected chemicals than previous samples.

OBSERVATION WELL CONSTRUCTION DETAILS
GROUNDWATER MONITORING DATA SUMMARY REPORT
SECOND QUARTER, 1992
DOUGLAS AIRCRAFT C-6 FACILITY
TORRANCE, CALIFORNIA
K/J 924010.00

Well	Date Constructed	Well Diameter (inches)	Total Depth of Borehole (Feet)	Depth of Screened Interval (Feet)	Depth to top of Sand Filter Pack (Feet)	Well Casing Material and Slot Size	Hydrogeologic Unit Screened
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	54	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	09-13-90	4	91.0	60-90	53	Schedule 40 PVC 0.010-Inch Slots	Shallow
WCC-12s	09-17-90	4	91.5	60-90	53	Schedule 40 PVC 0.010-Inch Slots	Shallow
DAC-P1	09-25-89	4	N/A[3]	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

TABLE 2

SUMMARY OF GROUNDWATER ANALYTICAL DATA
GROUNDWATER MONITORING DATA SUMMARY REPORT
SECOND QUARTER 1992
DOUGLAS AIRCRAFT C-6 FACILITY
TORRANCE, CALIFORNIA
K/J 924010.00

		COMPOUNDS DETECTED BY EPA METHOD 8240 - All results are reported in µg/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
WCC-1S	03/27/87	2,800		300	4,600	1	-	-	-	85	-	-	-
	*04/13/87	3,700/2,500	-/-	260/120	5,500/3,600	-/-	-/-	-/-	-/-	110/-	-	-	-
	11/12/87	3,000	23	160	5,200	-	75	39	-	160	-	-	-
	07/13/89	900	<20	67	2,400	<100	<20	<20	<20	<20	<20	-	-
	08/23/89	1,500	30	<30	2,800	<100	<30	<30	<30	<30	41	-	-
	11/18/91	1,300	-	-	3,700	-	-	-	-	-	-	-	-
	06/17/92	170	<5	<5	380	<10	<5	<5	<5	<5	<5	<10	<30
WCC-2S	11/02/87	5	-	5	14	-	-	-	6	-	-	-	-
	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
WCC-3S	11/02/87	38,000	-	110,000	10,000	54,000	-	-	80,000	-	-	-	-
	11/12/87	88,000	1,000	54,000	11,000	70,000	1,000	-	140,000	-	-	-	-
	07/13/89	18,000	<500	56,000	7,700	<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	6,900	7,900	70,000	550	250	27,000	-	550	12,000	-
	06/17/92	25	<5	13	13	100	<5	<5	51	<5	<5	<10	<30
WCC-4S	11/02/87	360	-	14	700	-	2	2	-	-	-	-	-
	11/12/87	1,200	-	35	690	-	-	-	-	-	-	-	-
	07/13/89	170	<3	11	270	<20	<3	<3	<3	<3	10	-	-
	08/23/89	360	<5	7	410	<30	<5	<5	<5	<5	15	-	-
	11/18/91	1,000	-	20	2,200	-	-	-	-	-	-	-	-
	06/17/92	920	<25	<25	1,500	<50	<25	<25	<25	<25	<25	<50	<150
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	6/6	-	-
	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
WCC-6S	10/06/89	210	4	130	140	<5	7	<1	<1	<1	12	-	-
	11/19/91	5,800	-	5,000	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
WCC-7S	07/13/89	850	<10	110	1,300	<50	11	<10	<10	<10	26	-	-
	08/23/89	1,100	<30	66	1,400	<100	<30	<30	<30	<30	31	-	-
	11/18/91	390	-	-	1,200	-	-	-	-	-	-	-	-
	06/17/92	230	<5	<5	560	<10	<5	<5	<5	<5	<5	<10	<30

TABLE 2
(Continued)

SUMMARY OF GROUNDWATER ANALYTICAL DATA
GROUNDWATER MONITORING DATA SUMMARY REPORT
SECOND QUARTER 1992
DOUGLAS AIRCRAFT C-6 FACILITY
TORRANCE, CALIFORNIA
K/J 924010.00

		COMPOUNDS DETECTED BY EPA METHOD 8240 - All results are reported in µg/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
WCC-8S	07/13/89	430	<5	160	240	<30	9	<5	<5	<5	7	-	-
	08/23/89	820	<5	130	430	<30	<5	<5	<5	<5	7	-	-
	11/15/91	2,600	-	400	3,000	-	40	25	120	-	40	-	-
	*06/17/92	2,200/2,300	<25/<50	180/180	2,400/2,600	<50/<100	<25/<50	<25/<50	<25/<50	<25/<50	<25/<50	<50/<100	<150/<300
WCC-9S	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
WCC-10S	*07/13/89	2/1	<1/<1	<1/<1	86/87	<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	-	-	-	87	-	-	-	-	-	-	-	-
	06/16/92	10	<5	<5	120	<10	<5	<5	<5	<5	<5	13	35
WCC-11S	11/15/91	10	-	-	80	-	-	-	-	-	-	-	-
	06/16/92	21	<5	<5	120	<10	<5	<5	<5	<5	<5	<10	<10
WCC-12S	11/18/91	300	-	17	900	-	-	-	-	-	-	-	-
	*06/16/92	250/260	<5/5	<5/<5	660/710	<10/<10	<5/<5	<5/<5	<5/<5	<5/<5	<5/<5	<10/<10	<10/<10
DAC-P1	10/09/89	<200	<200	<200	17,000	<1,000	<200	<200	<200	<200	<200	<1,000	<1,000
	06/17/92	<5	<5	<5	21,000	<10	<5	10	<5	<5	13	<10	<30
WCC-1D	07/25/89	<1	<1	<1	2	<5	<1	<1	1	<1	1	-	-
	08/23/89	<1	<1	1	2	<5	<1	<1	<1	<1	<1	-	-
	11/15/91	90	-	8	40	-	-	-	20	-	-	-	-
	*06/15/92	1,500/1,300	<25/<25	63/64	230/210	<50/65	<25/<25	<25/<25	<25/<25	<25/<25	<25/<25	<50/<50	<50/<50
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	-	60	-	-	-	-	-	-	-	-	-
	06/16/92	510	<5	880	23	<10	<5	<5	8	<5	<5	<10	<30

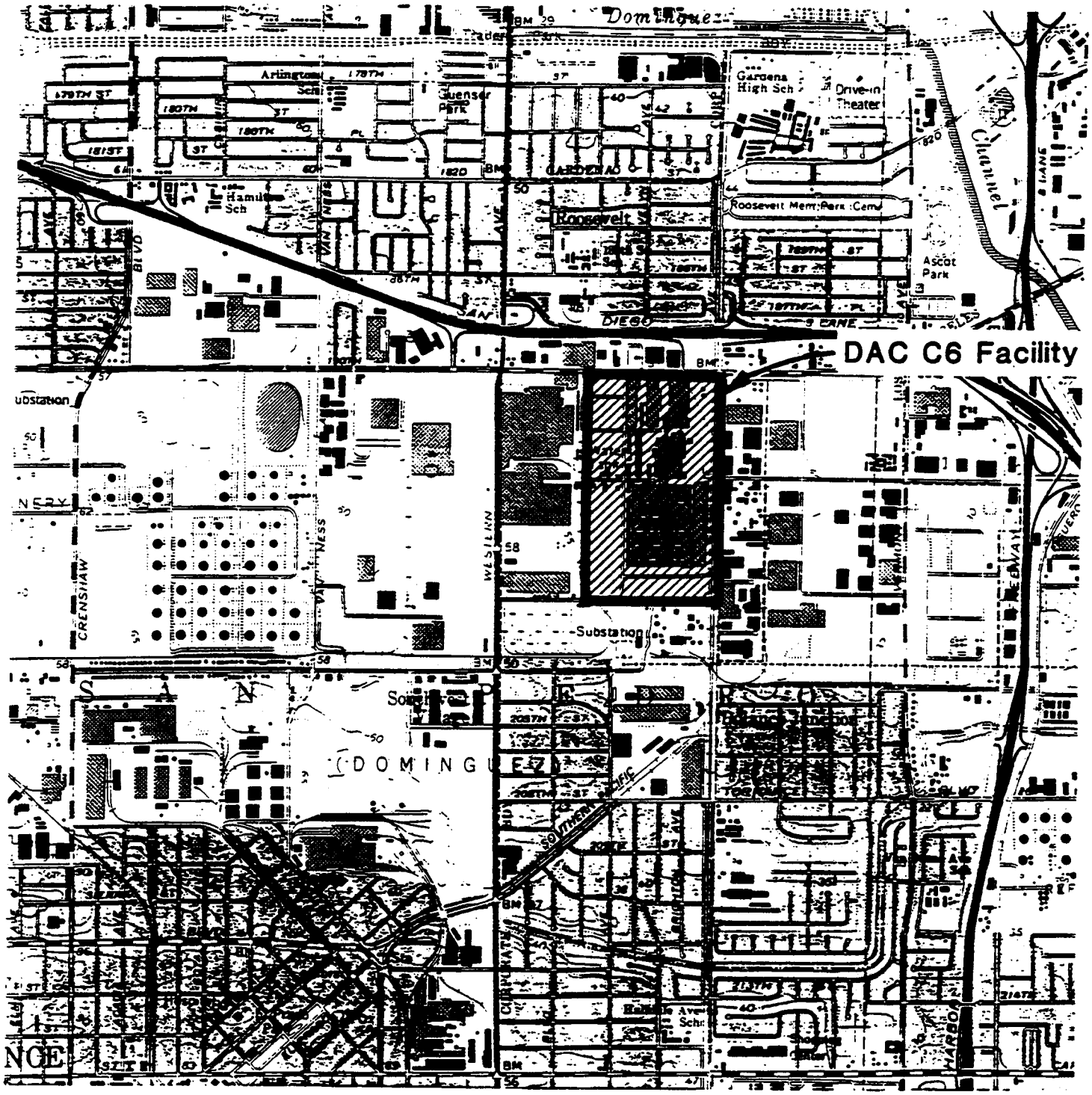
Notes:
1 -Not Detected (Detection limit not specified)
2 *Duplicate sample also analyzed

TABLE 3

SUMMARY OF WATER ELEVATION DATA
GROUNDWATER MONITORING DATA SUMMARY REPORT
SECOND 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
WCC-1S	50.70	-21.63	-19.48	-19.20
WCC-2S	50.59	-19.72	-19.06	-19.15
WCC-3S	51.19	-21.56	-19.42	-19.24
WCC-4S	49.69	-21.77	-19.59	-19.22
WCC-5S	48.22	NA[4]	-19.70	-19.13
WCC-6S	50.95	NA	-19.70	-19.40
WCC-7S	48.29	NA	-20.07	-19.63
WCC-8S	50.56	NA	-19.35	-19.11
WCC-9S	47.01	NA	-20.07	-19.44
WCC-10S	51.12	NA	-18.42	-18.94
WCC-11S	49.97	NA	NA	-17.62
WCC-12S	46.92	NA	NA	-19.60
DAC-P1	52.44	NA	NA	-17.76
WCC-1D	50.45	NA	-19.51	-19.55
WCC-3D	51.18	NA	-19.38	-19.39

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.

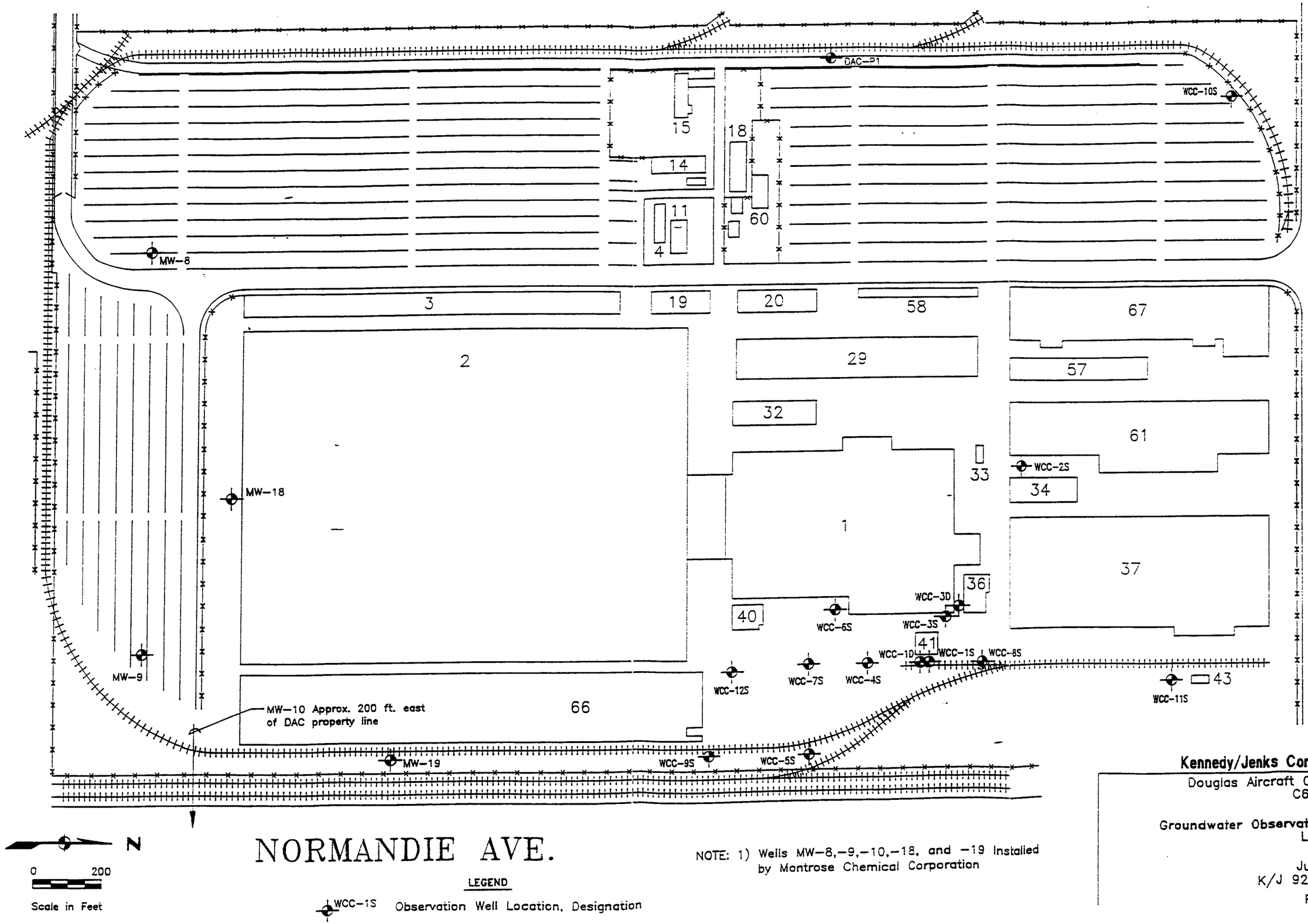
Kennedy/Jenks Consultants

McDonnell Douglas Corporation
DAC C6 Facility

Site Vicinity Map

July 1992
K/J 924010.00

Figure 1



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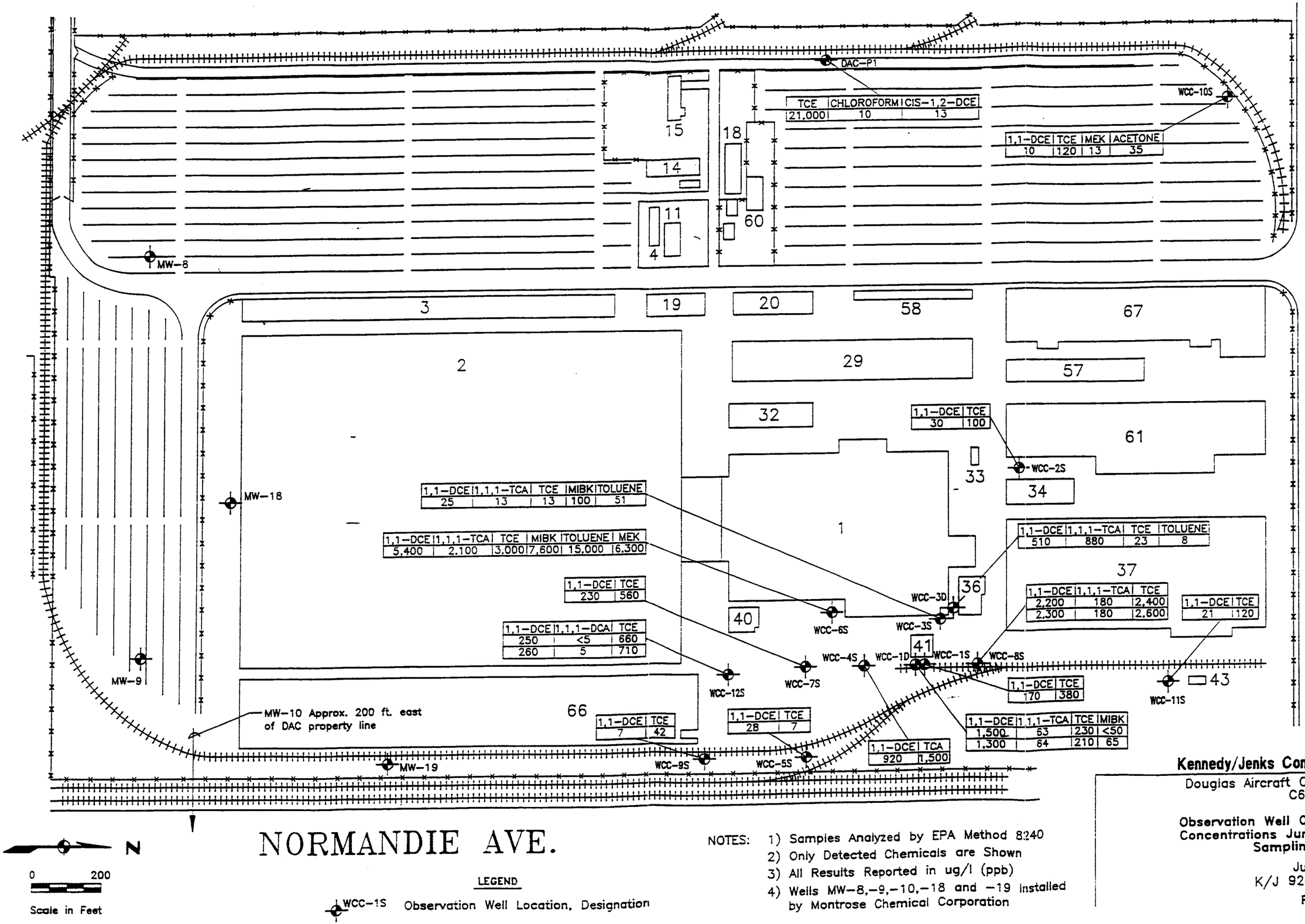
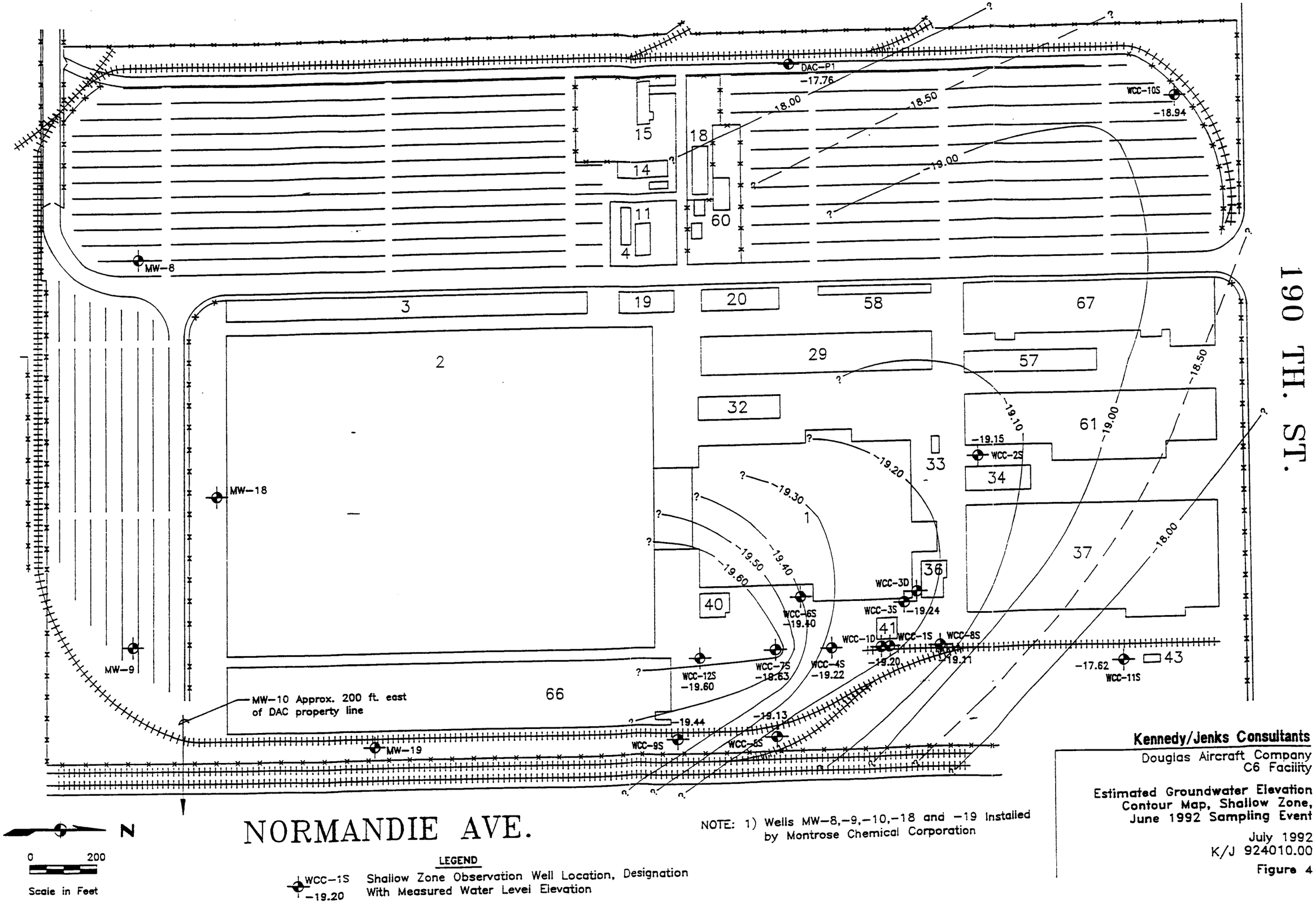


BOE-C6-0072182



BOE-C6-0072183

APPENDIX A

LABORATORY DATA SHEETS

LABORATORY REPORT

PACIFIC ENVIRONMENTAL LABORATORY
674 Harrison Street
San Francisco, CA 94107
415-243-2580

For Kennedy/Jenks Consultants
Attention Thom Deane
Address 17310 Red Hill Avenue, Suite 220
Irvine, CA 92714

Received 06/17/92
Reported 07/06/92

Revised 07/08/92
(K/J 924010.00)

Source:	Douglas Aircraft
Lab. No.:	9204382
Sample I.D.:	WCC1D-1
Matrix:	Water
Depth:	--
Date Collected:	06/15/92
Time Collected:	1410
Collected by:	K/J
Date Extracted:	--
Date Analyzed:	06/26/92

EPA 8240 Volatiles — **PRIORITY POLLUTANT COMPOUNDS**

Volatiles	ug/L (ppb) Det	Lim.	Volatiles	ug/L (ppb) Det	Lim.
chloromethane	<50	50	trans-1,3-dichloropropylene	<25	25
bromomethane	<50	50	**trichloroethylene**	**230**	**25**
vinyl chloride	<50	50	benzene	<25	25
chloroethane	<50	50	dibromochloromethane	<25	25
methylene chloride	<25	25	cis-1,3-dichloropropylene	<25	25
acrolein	<150	150	1,1,2-trichloroethane	<25	25
acrylonitrile	<50	50	2-chloroethylvinyl ether	<25	25
trichlorofluoromethane	<25	25	bromoform	<25	25
1,1-dichloroethylene	**1500**	**25**	tetrachloroethylene	<25	25
1,1-dichloroethane	<25	25	1,1,2,2-tetrachloroethane	<25	25
cis-1,2-dichloroethylene	<25	25	toluene	<25	25
trans-1,2-dichloroethylene	<25	25	chlorobenzene	<25	25
chloroform	<25	25	ethylbenzene	<25	25
1,2-dichloroethane	<25	25	1-2,dichlorobenzene	<25	25
1,1,1-tirchloroethane	**63**	**25**	1-3,dichlorobenzene	<25	25
carbon tetrachloride	<25	25	1-4,dichlorobenzene	<25	25
bromodichloromethane	<25	25			
1,2-dichloropropane	<25	25			

NON-PRIORITY POLLUTANT COMPOUNDS

acetonitrile	<150	150	vinyl acetate	<50	50
acetone	<50	50	4-methyl-2-pentanone	<50	50
carbon disulfide	<25	25	2-hexanone	<50	50
1,1,2-trichloro-			styrene	<25	25
1,2,2-trifluoroethane	<50	50	xylenes	<25	25
2-butanone	<50	<50			

Comments: Reported in micrograms per liter.

Analyst Racquel Seludo Manager Valerie Gray

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LABORATORY REPORT

PACIFIC ENVIRONMENTAL LABORATORY
674 Harrison Street
San Francisco, CA 94107
415-243-2580

For Kennedy/Jenks Consultants
Attention Thom Deane
Address 17310 Red Hill Avenue, Suite 220
Irvine, CA 92714

Received 06/17/92
Reported 07/06/92

Revised 07/08/92
(K/J 924010.00)

Source:	Douglas Aircraft
Lab. No.:	9204390
Sample I.D.:	WCC11S-1
Matrix:	Water
Depth:	--
Date Collected:	06/15/92
Time Collected:	1050
Collected by:	K/J
Date Extracted:	--
Date Analyzed:	06/26/92

EPA 8240 Volatiles — **PRIORITY POLLUTANT COMPOUNDS**

Volatiles	ug/L (ppb)	Det Lim.	Volatiles	ug/L (ppb)	Det Lim.
chloromethane	<10	10	trans-1,3-dichloropropylene	<5	5
bromomethane	<10	10	**trichloroethylene**	**120**	**5**
vinyl chloride	<10	10	benzene	<5	5
chloroethane	<10	10	dibromochloromethane	<5	5
methylene chloride	<5	5	cis-1,3-dichloropropylene	<5	5
acrolein	<30	30	1,1,2-trichloroethane	<5	5
acrylonitrile	<10	10	2-chloroethylvinyl ether	<5	5
trichlorofluoromethane	<5	5	bromoform	<5	5
1,1-dichloroethylene	**21**	**5**	tetrachloroethylene	<5	5
1,1-dichloroethane	<5	5	1,1,2,2-tetrachloroethane	<5	5
cis-1,2-dichloroethylene	<5	5	toluene	<5	5
trans-1,2-dichloroethylene	<5	5	chlorobenzene	<5	5
chloroform	<5	5	ethylbenzene	<5	5
1,2-dichloroethane	<5	5	1-2,dichlorobenzene	<5	5
1,1,1-trichloroethane	<5	5	1-3,dichlorobenzene	<5	5
carbon tetrachloride	<5	5	1-4,dichlorobenzene	<5	5
bromodichloromethane	<5	5			
1,2-dichloropropane	<5	5			

NON-PRIORITY POLLUTANT COMPOUNDS

acetonitrile	<30	30	vinyl acetate	<10	10
acetone	<10	10	4-methyl-2-pentanone	<10	10
carbon disulfide	<5	5	2-hexanone	<10	10
1,1,2-trichloro-1,2,2-trifluoroethane	<10	10	styrene	<5	5
2-butanone	<10	10	xylenes	<5	5

Comments: Reported in micrograms per liter.

Analyst Racquel Seludo Manager Valerie Gray

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Irvine, CA 92714

Received 06/17/92
Reported 07/06/92

Revised 07/08/92
(K/J 924010.00)

Source:	Douglas Aircraft
Lab. No.:	9204392
Sample I.D.:	DW-061692
Matrix:	Water
Depth:	--
Date Collected:	06/16/92
Time Collected:	--
Collected by:	K/J
Date Extracted:	--
Date Analyzed:	06/26/92

EPA 8240 **PRIORITY POLLUTANT COMPOUNDS**

Volatiles	ug/L (ppb)	Det Lim.	Volatiles	ug/L (ppb)	Det Lim.
chloromethane	<10	10	trans-1,3-dichloropropylene	<5	5
bromomethane	<10	10	**trichloroethylene**	**710***	**5**
vinyl chloride	<10	10	benzene	<5	5
chloroethane	<10	10	dibromochloromethane	<5	5
methylene chloride	<5	5	cis-1,3-dichloropropylene	<5	5
acrolein	<30	30	1,1,2-trichloroethane	<5	5
acrylonitrile	<10	10	2-chloroethylvinyl ether	<5	5
trichlorofluoromethane	<5	5	bromoform	<5	5
1,1-dichloroethylene	**260**	**5**	tetrachloroethylene	<5	5
1,1-dichloroethane	**5**	**5**	1,1,2,2-tetrachloroethane	<5	5
cis-1,2-dichloroethylene	<5	5	toluene	<5	5
trans-1,2-dichloroethylene	<5	5	chlorobenzene	<5	5
chloroform	<5	5	ethylbenzene	<5	5
1,2-dichloroethane	<5	5	1-2,dichlorobenzene	<5	5
1,1,1-trichloroethane	<5	5	1-3,dichlorobenzene	<5	5
carbon tetrachloride	<5	5	1-4,dichlorobenzene	<5	5
bromodichloromethane	<5	5			
1,2-dichloropropane	<5	5			

NON-PRIORITY POLLUTANT COMPOUNDS

acetonitrile	<30	30	vinyl acetate	<10	10
acetone	<10	10	4-methyl-2-pentanone	<10	10
carbon disulfide	<5	5	2-hexanone	<10	10
1,1,2-trichloro-			styrene	<5	5
1,2,2-trifluoroethane	<10	10	xylenes	<5	5
2-butanone	<10	10			

Comments: ***Greater than highest calibration level.** Reported in micrograms per liter.

Analyst Racquel Seludo Manager Valerie Grant

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Received 06/17/92
Reported 07/06/92

Revised 07/08/92
(K/J 924010.00)

Source:	Douglas Aircraft
Lab. No.:	9204393
Sample I.D.:	WCC2S-1
Matrix:	Water
Depth:	--
Date Collected:	06/16/92
Time Collected:	1350
Collected by:	K/J
Date Extracted:	--
Date Analyzed:	06/26/92

EPA 8240

PRIORITY POLLUTANT COMPOUNDS

Volatiles	ug/L (ppb)	Det Lim.	Volatiles	ug/L (ppb)	Det Lim.
chloromethane	<10	10	trans-1,3-dichloropropylene	<5	5
bromomethane	<10	10	**trichloroethylene**	**100**	**5**
vinyl chloride	<10	10	benzene	<5	5
chloroethane	<10	10	dibromochloromethane	<5	5
methylene chloride	<5	5	cis-1,3-dichloropropylene	<5	5
acrolein	<30	30	1,1,2-trichloroethane	<5	5
acrylonitrile	<10	10	2-chloroethylvinyl ether	<5	5
trichlorofluoromethane	<5	5	bromoform	<5	5
1,1-dichloroethylene	**30**	**5**	tetrachloroethylene	<5	5
1,1-dichloroethane	<5	5	1,1,2,2-tetrachloroethane	<5	5
cis-1,2-dichloroethylene	<5	5	toluene	<5	5
trans-1,2-dichloroethylene	<5	5	chlorobenzene	<5	5
chloroform	<5	5	ethylbenzene	<5	5
1,2-dichloroethane	<5	5	1-2,dichlorobenzene	<5	5
1,1,1-trichloroethane	<5	5	1-3,dichlorobenzene	<5	5
carbon tetrachloride	<5	5	1-4,dichlorobenzene	<5	5
bromodichloromethane	<5	5			
1,2-dichloropropane	<5	5			

NON-PRIORITY POLLUTANT COMPOUNDS

acetonitrile	<30	30	vinyl acetate	<10	10
acetone	<10	10	4-methyl-2-pentanone	<10	10
carbon disulfide	<5	5	2-hexanone	<10	10
1,1,2-trichloro-1,2,2-trifluoroethane	<10	10	styrene	<5	5
2-butanone	<10	10	xylenes	<5	5

Comments: Reported in micrograms per liter.

Analyst Racquel Seludo Manager

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Received 06/17/92
Reported 07/06/92

Revised 07/08/92
(K/J 924010.00)

Source:	Douglas Aircraft
Lab. No.:	9204394
Sample I.D.:	WCC12S-1
Matrix:	Water
Depth:	--
Date Collected:	06/16/92
Time Collected:	1515
Collected by:	K/J
Date Extracted:	--
Date Analyzed:	06/26/92

EPA 8240 **PRIORITY POLLUTANT COMPOUNDS**

Volatiles	ug/L (ppb)	Det Lim.	Volatiles	ug/L (ppb)	Det Lim.
chloromethane	<10	10	trans-1,3-dichloropropylene	<5	5
bromomethane	<10	10	**trichloroethylene**	**660***	**5**
vinyl chloride	<10	10	benzene	<5	5
chloroethane	<10	10	dibromochloromethane	<5	5
methylene chloride	<5	5	cis-1,3-dichloropropylene	<5	5
acrolein	<30	30	1,1,2-trichloroethane	<5	5
acrylonitrile	<10	10	2-chloroethylvinyl ether	<5	5
trichlorofluoromethane	<5	5	bromoform	<5	5
1,1-dichloroethylene	**250**	**5**	tetrachloroethylene	<5	5
1,1-dichloroethane	<5	5	1,1,2,2-tetrachloroethane	<5	5
cis-1,2-dichloroethylene	<5	5	toluene	<5	5
trans-1,2-dichloroethylene	<5	5	chlorobenzene	<5	5
chloroform	<5	5	ethylbenzene	<5	5
1,2-dichloroethane	<5	5	1-2,dichlorobenzene	<5	5
1,1,1-trichloroethane	<5	5	1-3,dichlorobenzene	<5	5
carbon tetrachloride	<5	5	1-4,dichlorobenzene	<5	5
bromodichloromethane	<5	5			
1,2-dichloropropane	<5	5			

NON-PRIORITY POLLUTANT COMPOUNDS

acetonitrile	<30	30	vinyl acetate	<10	10
acetone	<10	10	4-methyl-2-pentanone	<10	10
carbon disulfide	<5	5	2-hexanone	<10	10
1,1,2-trichloro-1,2,2-trifluoroethane	<10	10	styrene	<5	5
2-butanone	<10	10	xylenes	<5	5

Comments: ***Greater than highest calibration level.** Reported in micrograms per liter.

Analyst Racquel Seludo Manager

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Attention Thom Deane
Address 17310 Red Hill Avenue, Suite 220
Irvine, CA 92714

Received 06/17/92
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Revised 07/08/92
(K/J 924010.00)

Source:	Douglas Aircraft
Lab. No.:	9204395
Sample I.D.:	FB-061692
Matrix:	Water
Depth:	--
Date Collected:	06/16/92
Time Collected:	1510
Collected by:	K/J
Date Extracted:	--
Date Analyzed:	06/26/92

EPA 624 **PRIORITY POLLUTANT COMPOUNDS**

Volatiles	ug/L (ppb)	Det Lim.	Volatiles	ug/L (ppb)	Det Lim.
chloromethane	<10	10	trans-1,3-dichloropropylene	<5	5
bromomethane	<10	10	trichloroethylene	<5	5
vinyl chloride	<10	10	benzene	<5	5
chloroethane	<10	10	dibromochloromethane	<5	5
methylene chloride	<5	5	cis-1,3-dichloropropylene	<5	5
acrolein	<30	30	1,1,2-trichloroethane	<5	5
acrylonitrile	<10	10	2-chloroethylvinyl ether	<5	5
trichlorofluoromethane	<5	5	bromoform	<5	5
1,1-dichloroethylene	<5	5	tetrachloroethylene	<5	5
1,1-dichloroethane	<5	5	1,1,2,2-tetrachloroethane	<5	5
cis-1,2-dichloroethylene	<5	5	toluene	<5	5
trans-1,2-dichloroethylene	<5	5	chlorobenzene	<5	5
chloroform	**9**	**5**	ethylbenzene	<5	5
1,2-dichloroethane	<5	5	1-2,dichlorobenzene	<5	5
1,1,1-trichloroethane	<5	5	1-3,dichlorobenzene	<5	5
carbon tetrachloride	<5	5	1-4,dichlorobenzene	<5	5
bromodichloromethane	<5	5			
1,2-dichloropropane	<5	5			

NON-PRIORITY POLLUTANT COMPOUNDS

acetonitrile	<30	30	vinyl acetate	<10	10
acetone	<10	10	4-methyl-2-pentanone	<10	10
carbon disulfide	<5	5	2-hexanone	<10	10
1,1,2-trichloro-			styrene	<5	5
1,2,2-trifluoroethane	<10	10	xylenes	<5	5
2-butanone	<10	10			

Comments: Reported in micrograms per liter.

Analyst Racquel Seludo Manager Valerie Hung

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For Kennedy/Jenks Consultants
Attention Thom Deane
Address 17310 Red Hill Avenue, Suite 220
Irvine, CA 92714

Received --
Reported 07/06/92

Revised 07/08/92
Quality Control Page
(K/J 924010.00)

Source:	--
Lab. No.:	Method Blank
Sample I.D.:	Reagent Water
Matrix:	Water
Depth:	--
Date Collected:	--
Time Collected:	--
Collected by:	PEL
Date Extracted:	--
Date Analyzed:	06/26/92

EPA 8240 **PRIORITY POLLUTANT COMPOUNDS**

Volatiles	ug/L (ppb)	Det Lim.	Volatiles	ug/L (ppb)	Det Lim.
chloromethane	<10	10	trans-1,3-dichloropropylene	<5	5
bromomethane	<10	10	trichloroethylene	<5	5
vinyl chloride	<10	10	benzene	<5	5
chloroethane	<10	10	dibromochloromethane	<5	5
methylene chloride	<5	5	cis-1,3-dichloropropylene	<5	5
acrolein	<30	30	1,1,2-trichloroethane	<5	5
acrylonitrile	<10	10	2-chloroethylvinyl ether	<5	5
trichlorofluoromethane	<5	5	bromoform	<5	5
1,1-dichloroethylene	<5	5	tetrachloroethylene	<5	5
1,1-dichloroethane	<5	5	1,1,2,2-tetrachloroethane	<5	5
cis-1,2-dichloroethylene	<5	5	toluene	<5	5
trans-1,2-dichloroethylene	<5	5	chlorobenzene	<5	5
chloroform	<5	5	ethylbenzene	<5	5
1,2-dichloroethane	<5	5	1-2,dichlorobenzene	<5	5
1,1,1-trichloroethane	<5	5	1-3,dichlorobenzene	<5	5
carbon tetrachloride	<5	5	1-4,dichlorobenzene	<5	5
bromodichloromethane	<5	5			
1,2-dichloropropane	<5	5			

NON-PRIORITY POLLUTANT COMPOUNDS

acetonitrile	<30	30	vinyl acetate	<10	10
acetone	<10	10	4-methyl-2-pentanone	<10	10
carbon disulfide	<5	5	2-hexanone	<10	10
1,1,2-trichloro-			styrene	<5	5
1,2,2-trifluoroethane	<10	10	xylenes	<5	5
2-butanone	<10	10			

Comments: Reported in micrograms per liter.

Analyst Racquel Seludo Manager [signature]

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Received ---
Reported 07/06/92
Quality Control Page
(K/J 924010.00)

Sample Identification		Percent Recoveries		
Lab. No.	Type	1,2-dichloroethane-d4	toluene-d8	4-bromofluorobenzene
Method Blank	Water	94	102	106
9204390	Water	91	89	101
9204392	Water	106	103	105
9204393	Water	103	103	102
9204394	Water	92	90	98
9204395*	Water	98	98	99
9204382	Water	103	99	101

Acceptable Recoveries:	Water	Soil
1,2-dichloroethane-d4	76-114	70-121
toluene-d8	88-110	81-117
4-bromofluorobenzene	86-115	74-121

Comments: Analysis by U.S. EPA Method 8240. *Analysis by U.S. EPA Method 624.

Analyst Racquel Seludo Manager

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Received 06/17/92
Reported 07/06/92

Revised 07/08/92
(K/J 924010.00)

Source:	Douglas Aircraft
Lab. No.:	9204383
Sample I.D.:	WCC9S-1
Matrix:	Water
Depth:	--
Date Collected:	06/15/92
Time Collected:	1540
Collected by:	K/J
Date Extracted:	--
Date Analyzed:	06/25/92

EPA 8240 Volatiles — **PRIORITY POLLUTANT COMPOUNDS**

Volatiles	ug/L (ppb)	Det Lim.	Volatiles	ug/L (ppb)	Det Lim.
chloromethane	<10	10	trans-1,3-dichloropropylene	<5	5
bromomethane	<10	10	**trichloroethylene**	**42**	**5**
vinyl chloride	<10	10	benzene	<5	5
chloroethane	<10	10	dibromochloromethane	<5	5
methylene chloride	<5	5	cis-1,3-dichloropropylene	<5	5
acrolein	<30	30	1,1,2-trichloroethane	<5	5
acrylonitrile	<10	10	2-chloroethylvinyl ether	<5	5
trichlorofluoromethane	<5	5	bromoform	<5	5
1,1-dichloroethylene	**7**	**5**	tetrachloroethylene	<5	5
1,1-dichloroethane	<5	5	1,1,2,2-tetrachloroethane	<5	5
cis-1,2-dichloroethylene	<5	5	toluene	<5	5
trans-1,2-dichloroethylene	<5	5	chlorobenzene	<5	5
chloroform	<5	5	ethylbenzene	<5	5
1,2-dichloroethane	<5	5	1-2,dichlorobenzene	<5	5
1,1,1-trichloroethane	<5	5	1-3,dichlorobenzene	<5	5
carbon tetrachloride	<5	5	1-4,dichlorobenzene	<5	5
bromodichloromethane	<5	5			
1,2-dichloropropane	<5	5			

NON-PRIORITY POLLUTANT COMPOUNDS

acetonitrile	<30	30	vinyl acetate	<10	10
acetone	<30	30	4-methyl-2-pentanone	<10	10
carbon disulfide	<5	5	2-hexanone	<10	10
1,1,2-trichloro-1,2,2-trifluoroethane	<10	10	styrene	<5	5
2-butanone	<10	10	xylenes	<5	5

Comments: Reported in micrograms per liter.

Analyst Bill Svoboda Manager

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Irvine, CA 92714

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(K/J 924010.00)

Source:	Douglas Aircraft
Lab. No.:	9204385
Sample I.D.:	FB-061592
Matrix:	Water
Depth:	--
Date Collected:	06/15/92
Time Collected:	1530
Collected by:	K/J
Date Extracted:	--
Date Analyzed:	06/25/92

EPA 624 Volatiles — **PRIORITY POLLUTANT COMPOUNDS**

Volatiles	ug/L (ppb)	Det Lim.	Volatiles	ug/L (ppb)	Det Lim.
chloromethane	<10	10	trans-1,3-dichloropropylene	<5	5
bromomethane	<10	10	trichloroethylene	<5	5
vinyl chloride	<10	10	benzene	<5	5
chloroethane	<10	10	dibromochloromethane	<5	5
methylene chloride	<5	5	cis-1,3-dichloropropylene	<5	5
acrolein	<30	30	1,1,2-trichloroethane	<5	5
acrylonitrile	<10	10	2-chloroethylvinyl ether	<5	5
trichlorofluoromethane	<5	5	bromoform	<5	5
1,1-dichloroethylene	<5	5	tetrachloroethylene	<5	5
1,1-dichloroethane	<5	5	1,1,2,2-tetrachloroethane	<5	5
cis-1,2-dichloroethylene	<5	5	toluene	<5	5
trans-1,2-dichloroethylene	<5	5	chlorobenzene	<5	5
chloroform	**8**	**5**	ethylbenzene	<5	5
1,2-dichloroethane	<5	5	1-2,dichlorobenzene	<5	5
1,1,1-trichloroethane	<5	5	1-3,dichlorobenzene	<5	5
carbon tetrachloride	<5	5	1-4,dichlorobenzene	<5	5
bromodichloromethane	<5	5			
1,2-dichloropropane	<5	5			

NON-PRIORITY POLLUTANT COMPOUNDS

acetonitrile	<30	30	vinyl acetate	<10	10
acetone	<30	30	4-methyl-2-pentanone	<10	10
carbon disulfide	<5	5	2-hexanone	<10	10
1,1,2-trichloro-1,2,2-trifluoroethane	<10	10	styrene	<5	5
2-butanone	<10	10	xylenes	<5	5

Comments: Reported in micrograms per liter.

Analyst Bill Svoboda Manager Valerie Tsang

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LABORATORY REPORT

PACIFIC ENVIRONMENTAL LABORATORY
674 Harrison Street
San Francisco, CA 94107
415-243-2580

For Kennedy/Jenks Consultants
Attention Thom Deane
Address 17310 Red Hill Avenue, Suite 220
Irvine, CA 92714

Received 06/17/92
Reported 07/06/92

Revised 07/08/92
(K/J 924010.00)

Source:	Douglas Aircraft
Lab. No.:	9204386
Sample I.D.:	WCC5S-1
Matrix:	Water
Depth:	--
Date Collected:	06/15/92
Time Collected:	1645
Collected by:	K/J
Date Extracted:	--
Date Analyzed:	06/25/92

EPA 8240 **PRIORITY POLLUTANT COMPOUNDS**

Volatiles	ug/L (ppb)	Det Lim.	Volatiles	ug/L (ppb)	Det Lim.
chloromethane	<10	10	trans-1,3-dichloropropylene	<5	5
bromomethane	<10	10	**trichloroethylene**	**7**	**5**
vinyl chloride	<10	10	benzene	<5	5
chloroethane	<10	10	dibromochloromethane	<5	5
methylene chloride	<5	5	cis-1,3-dichloropropylene	<5	5
acrolein	<30	30	1,1,2-trichloroethane	<5	5
acrylonitrile	<10	10	2-chloroethylvinyl ether	<5	5
trichlorofluoromethane	<5	5	bromoform	<5	5
1,1-dichloroethylene	**28**	**5**	tetrachloroethylene	<5	5
1,1-dichloroethane	<5	5	1,1,2,2-tetrachloroethane	<5	5
cis-1,2-dichloroethylene	<5	5	toluene	<5	5
trans-1,2-dichloroethylene	<5	5	chlorobenzene	<5	5
chloroform	<5	5	ethylbenzene	<5	5
1,2-dichloroethane	<5	5	1-2,dichlorobenzene	<5	5
1,1,1-trichloroethane	<5	5	1-3,dichlorobenzene	<5	5
carbon tetrachloride	<5	5	1-4,dichlorobenzene	<5	5
bromodichloromethane	<5	5			
1,2-dichloropropane	<5	5			

NON-PRIORITY POLLUTANT COMPOUNDS

acetonitrile	<30	30	vinyl acetate	<10	10
acetone	<30	30	4-methyl-2-pentanone	<10	10
carbon disulfide	<5	5	2-hexanone	<10	10
1,1,2-trichloro-			styrene	<5	5
1,2,2-trifluoroethane	<10	10	xylenes	<5	5
2-butanone	<10	10			

Comments: Reported in micrograms per liter.

Analyst Bill Svoboda Manager

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Attention Thom Deane
Address 17310 Red Hill Avenue, Suite 220
Irvine, CA 92714

Received 06/17/92
Reported 07/06/92

Revised 07/08/92
(K/J 924010.00)

Source:	Douglas Aircraft
Lab. No.:	9204387
Sample I.D.:	WCC3D-1
Matrix:	Water
Depth:	--
Date Collected:	06/16/92
Time Collected:	0940
Collected by:	K/J
Date Extracted:	--
Date Analyzed:	06/25/92

EPA 8240 **PRIORITY POLLUTANT COMPOUNDS**

Volatiles	ug/L (ppb)	Det Lim.	Volatiles	ug/L (ppb)	Det Lim.
chloromethane	<10	10	trans-1,3-dichloropropylene	<5	5
bromomethane	<10	10	**trichloroethylene**	**23**	**5**
vinyl chloride	<10	10	benzene	<5	5
chloroethane	<10	10	dibromochloromethane	<5	5
methylene chloride	<5	5	cis-1,3-dichloropropylene	<5	5
acrolein	<30	30	1,1,2-trichloroethane	<5	5
acrylonitrile	<10	10	2-chloroethylvinyl ether	<5	5
trichlorofluoromethane	<5	5	bromoform	<5	5
1,1-dichloroethylene	**510**	**5**	tetrachloroethylene	<5	5
1,1-dichloroethane	<5	5	1,1,2,2-tetrachloroethane	<5	5
cis-1,2-dichloroethylene	<5	5	**toluene**	**8**	**5**
trans-1,2-dichloroethylene	<5	5	chlorobenzene	<5	5
chloroform	<5	5	ethylbenzene	<5	5
1,2-dichloroethane	<5	5	1-2,dichlorobenzene	<5	5
1,1,1-trichloroethane	**880***	**5**	1-3,dichlorobenzene	<5	5
carbon tetrachloride	<5	5	1-4,dichlorobenzene	<5	5
bromodichloromethane	<5	5			
1,2-dichloropropane	<5	5			

NON-PRIORITY POLLUTANT COMPOUNDS

acetonitrile	<30	30	vinyl acetate	<10	10
acetone	<30	30	4-methyl-2-pentanone	<10	10
carbon disulfide	<5	5	2-hexanone	<10	10
1,1,2-trichloro-			styrene	<5	5
1,2,2-trifluoroethane	<10	10	xylenes	<5	5
2-butanone	<10	10			

Comments: ***Greater than highest calibration level.** Reported in micrograms per liter.

Analyst Bill Svoboda Manager Walter Gray

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Received 06/17/92
Reported 07/06/92

Revised 07/08/92
(K/J 924010.00)

Source:	Douglas Aircraft
Lab. No.:	9204388
Sample I.D.:	TB-061692
Matrix:	Water
Depth:	--
Date Collected:	06/16/92
Time Collected:	--
Collected by:	K/J
Date Extracted:	--
Date Analyzed:	06/25/92

EPA 624 Volatiles — **PRIORITY POLLUTANT COMPOUNDS**

Volatiles	ug/L (ppb)	Det Lim.	Volatiles	ug/L (ppb)	Det Lim.
chloromethane	<10	10	trans-1,3-dichloropropylene	<5	5
bromomethane	<10	10	trichloroethylene	<5	5
vinyl chloride	<10	10	benzene	<5	5
chloroethane	<10	10	dibromochloromethane	<5	5
methylene chloride	<5	5	cis-1,3-dichloropropylene	<5	5
acrolein	<30	30	1,1,2-trichloroethane	<5	5
acrylonitrile	<10	10	2-chloroethylvinyl ether	<5	5
trichlorofluoromethane	<5	5	bromoform	<5	5
1,1-dichloroethylene	<5	5	tetrachloroethylene	<5	5
1,1-dichloroethane	<5	5	1,1,2,2-tetrachloroethane	<5	5
cis-1,2-dichloroethylene	<5	5	toluene	<5	5
trans-1,2-dichloroethylene	<5	5	chlorobenzene	<5	5
chloroform	<5	5	ethylbenzene	<5	5
1,2-dichloroethane	<5	5	1-2,dichlorobenzene	<5	5
1,1,1-trichloroethane	<5	5	1-3,dichlorobenzene	<5	5
carbon tetrachloride	<5	5	1-4,dichlorobenzene	<5	5
bromodichloromethane	<5	5			
1,2-dichloropropane	<5	5			

NON-PRIORITY POLLUTANT COMPOUNDS

acetonitrile	<30	30	vinyl acetate	<10	10
acetone	<30	30	4-methyl-2-pentanone	<10	10
carbon disulfide	<5	5	2-hexanone	<10	10
1,1,2-trichloro-1,2,2-trifluoroethane	<10	10	styrene	<5	5
2-butanone	<10	10	xylenes	<5	5

Comments: Reported in micrograms per liter.

Analyst Bill Svoboda Manager Valerie Gray

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For Kennedy/Jenks Consultants
Attention Thom Deane
Address 17310 Red Hill Avenue, Suite 220
Irvine, CA 92714

Received --
Reported 07/06/92

Revised 07/08/92
Quality Control Page
(K/J 924010.00)

Source:	--
Lab. No.:	Method Blank
Sample I.D.:	Reagent Water
Matrix:	Water
Depth:	--
Date Collected:	--
Time Collected:	--
Collected by:	PEL
Date Extracted:	--
Date Analyzed:	06/25/92

EPA 8240 Volatiles — **PRIORITY POLLUTANT COMPOUNDS**

Volatiles	ug/L (ppb)	Det Lim.	Volatiles	ug/L (ppb)	Det Lim.
chloromethane	<10	10	trans-1,3-dichloropropylene	<5	5
bromomethane	<10	10	trichloroethylene	<5	5
vinyl chloride	<10	10	benzene	<5	5
chloroethane	<10	10	dibromochloromethane	<5	5
methylene chloride	<5	5	cis-1,3-dichloropropylene	<5	5
acrolein	<30	30	1,1,2-trichloroethane	<5	5
acrylonitrile	<10	10	2-chloroethylvinyl ether	<5	5
trichlorofluoromethane	<5	5	bromoform	<5	5
1,1-dichloroethylene	<5	5	tetrachloroethylene	<5	5
1,1-dichloroethane	<5	5	1,1,2,2-tetrachloroethane	<5	5
cis-1,2-dichloroethylene	<5	5	toluene	<5	5
trans-1,2-dichloroethylene	<5	5	chlorobenzene	<5	5
chloroform	<5	5	ethylbenzene	<5	5
1,2-dichloroethane	<5	5	1-2,dichlorobenzene	<5	5
1,1,1-trichloroethane	<5	5	1-3,dichlorobenzene	<5	5
carbon tetrachloride	<5	5	1-4,dichlorobenzene	<5	5
bromodichloromethane	<5	5			
1,2-dichloropropane	<5	5			

NON-PRIORITY POLLUTANT COMPOUNDS

acetonitrile	<30	30	vinyl acetate	<10	10
acetone	<30	30	4-methyl-2-pentanone	<10	10
carbon disulfide	<5	5	2-hexanone	<10	10
1,1,2-trichloro-1,2,2-trifluoroethane	<10	10	styrene	<5	5
2-butanone	<10	10	xylenes	<5	5

Comments: Reported in micrograms per liter.

Analyst Bill Svoboda Manager [signature]

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Received ---
Reported 07/06/92
Quality Control Page
(K/J 924010.00)

Sample Identification		Percent Recoveries		
Lab. No.	Type	1,2-dichloroethane-d4	toluene-d8	4-bromofluorobenzene
Method Blank	Water	87	94	97
9204383	Water	95	89	94
9204385*	Water	94	89	102
9204386	Water	94	91	93
9204387	Water	95	89	95
9204388*	Water	100	88	103

Acceptable Recoveries:	Water	Soil
1,2-dichloroethane-d4	76-114	70-121
toluene-d8	88-110	81-117
4-bromofluorobenzene	86-115	74-121

Comments: Analysis by U.S. EPA Method 8240. *Analysis by U.S. EPA Method 624.

Analyst Bill Svoboda Manager

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Irvine, CA 92714

Received 06/17/92
Reported 07/07/92

Revised 07/08/92
(K/J 924010.00)

Source:	Douglas Aircraft
Lab. No.:	9204391
Sample I.D.:	WCC10S-1
Matrix:	Water
Depth:	--
Date Collected:	06/16/92
Time Collected:	1210
Collected by:	K/J
Date Extracted:	--
Date Analyzed:	06/30/92

EPA 8240 Volatiles — **PRIORITY POLLUTANT COMPOUNDS**

Volatiles	ug/L (ppb)	Det Lim.	Volatiles	ug/L (ppb)	Det Lim.
chloromethane	<10	10	trans-1,3-dichloropropylene	<5	5
bromomethane	<10	10	**trichloroethylene**	**120**	**5**
vinyl chloride	<10	10	benzene	<5	5
chloroethane	<10	10	dibromochloromethane	<5	5
methylene chloride	<5	5	cis-1,3-dichloropropylene	<5	5
acrolein	<30	30	1,1,2-trichloroethane	<5	5
acrylonitrile	<10	10	2-chloroethylvinyl ether	<5	5
trichlorofluoromethane	<5	5	bromoform	<5	5
1,1-dichloroethylene	**10**	**5**	tetrachloroethylene	<5	5
1,1-dichloroethane	<5	5	1,1,2,2-tetrachloroethane	<5	5
cis-1,2-dichloroethylene	<5	5	toluene	<5	5
trans-1,2-dichloroethylene	<5	5	chlorobenzene	<5	5
chloroform	<5	5	ethylbenzene	<5	5
1,2-dichloroethane	<5	5	1-2,dichlorobenzene	<5	5
1,1,1-trichloroethane	<5	5	1-3,dichlorobenzene	<5	5
carbon tetrachloride	<5	5	1-4,dichlorobenzene	<5	5
bromodichloromethane	<5	5			
1,2-dichloropropane	<5	5			

NON-PRIORITY POLLUTANT COMPOUNDS

acetonitrile	<30	30	vinyl acetate	<10	10
acetone	**35**	**30**	4-methyl-2-pentanone	<10	10
carbon disulfide	<5	5	**2-hexanone**	**13**	**10**
1,1,2-trichloro-			styrene	<5	5
1,2,2-trifluoroethane	<10	10	xylenes	<5	5
2-butanone	<10	10			

Comments: Reported in micrograms per liter.

Analyst Racquel Seludo Manager Valerie Gray

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For Kennedy/Jenks Consultants
Attention Thom Deane
Address 17310 Red Hill Avenue, Suite 220
Irvine, CA 92714

Received --
Reported 07/07/92

Revised 07/08/92
Quality Control Page
(K/J 924010.00)

Source:	--
Lab. No.:	Method Blank
Sample I.D.:	Reagent Water
Matrix:	Water
Depth:	--
Date Collected:	--
Time Collected:	--
Collected by:	PEL
Date Extracted:	--
Date Analyzed:	06/30/92

EPA 8240 **PRIORITY POLLUTANT COMPOUNDS**

Volatiles	ug/L (ppb)	Det Lim.	Volatiles	ug/L (ppb)	Det Lim.
chloromethane	<10	10	trans-1,3-dichloropropylene	<5	5
bromomethane	<10	10	trichloroethylene	<5	5
vinyl chloride	<10	10	benzene	<5	5
chloroethane	<10	10	dibromochloromethane	<5	5
methylene chloride	<5	5	cis-1,3-dichloropropylene	<5	5
acrolein	<30	30	1,1,2-trichloroethane	<5	5
acrylonitrile	<10	10	2-chloroethylvinyl ether	<5	5
trichlorofluoromethane	<5	5	bromoform	<5	5
1,1-dichloroethylene	<5	5	tetrachloroethylene	<5	5
1,1-dichloroethane	<5	5	1,1,2,2-tetrachloroethane	<5	5
cis-1,2-dichloroethylene	<5	5	toluene	<5	5
trans-1,2-dichloroethylene	<5	5	chlorobenzene	<5	5
chloroform	<5	5	ethylbenzene	<5	5
1,2-dichloroethane	<5	5	1-2,dichlorobenzene	<5	5
1,1,1-trichloroethane	<5	5	1-3,dichlorobenzene	<5	5
carbon tetrachloride	<5	5	1-4,dichlorobenzene	<5	5
bromodichloromethane	<5	5			
1,2-dichloropropane	<5	5			

NON-PRIORITY POLLUTANT COMPOUNDS

acetonitrile	<30	30	vinyl acetate	<10	10
acetone	<30	30	4-methyl-2-pentanone	<10	10
carbon disulfide	<5	5	2-hexanone	<10	10
1,1,2-trichloro-			styrene	<5	5
1,2,2-trifluoroethane	<10	10	xylenes	<5	5
2-butanone	<10	10			

Comments: Reported in micrograms per liter.

Analyst Racquel Seludo Manager

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Attention Thom Deane
Address 17310 Red Hill Avenue, Suite 220
Irvine, CA 92714

Received ---
Reported 07/07/92
Quality Control Page
(K/J 924010.00)

Sample Identification		Percent Recoveries		
Lab. No.	Type	1,2-dichloroethane-d4	toluene-d8	4-bromofluorobenzene
Method Blank	Water	91	100	96
9204391	Water	93	93	89

Acceptable Recoveries:	Water	Soil
1,2-dichloroethane-d4	76-114	70-121
toluene-d8	88-110	81-117
4-bromofluorobenzene	86-115	74-121

Comments: Analysis by U.S. EPA Method 8240.

Analyst Racquel Seludo Manager Valerie Gray

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Address 17310 Red Hill Avenue, Suite 220
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Received 06/17/92
Reported 07/06/92

Revised 07/08/92
(K/J 924010.00)

Source:	Douglas Aircraft
Lab. No.	9204384
Sample I.D.:	DW-061592
Matrix:	Water
Depth:	--
Date Collected:	06/15/92
Time Collected:	--
Collected by:	K/J
Date Extracted:	--
Date Analyzed:	07/01/92

EPA Method 8240 — PRIORITY POLLUTANT COMPOUNDS

Volatiles	ug/L (ppb) Det	Lim.	Volatiles	ug/L (ppb) Det	Lim.
chloromethane	<50	50	trans-1,3-dichloropropylene	<25	25
bromomethane	<50	50	**trichloroethylene**	**210**	**25**
vinyl chloride	<50	50	benzene	<25	25
chloroethane	<50	50	dibromochloromethane	<25	25
methylene chloride	<25	25	cis-1,3-dichloropropylene	<25	25
acrolein	<150	150	1,1,2-trichloroethane	<25	25
acrylonitrile	<50	50	2-chloroethylvinyl ether	<25	25
trichlorofluoromethane	<25	25	bromoform	<25	25
1,1-dichloroethylene	**1300**	**25**	tetrachloroethylene	<25	25
1,1-dichloroethane	<25	25	1,1,2,2-tetrachloroethane	<25	25
cis-1,2-dichloroethylene	<25	25	**toluene**	**36**	**25**
trans-1,2-dichloroethylene	<25	25	chlorobenzene	<25	25
chloroform	<25	25	ethylbenzene	<25	25
1,2-dichloroethane	<25	25	1-2,dichlorobenzene	<25	25
1,1,1-trichloroethane	**64**	**25**	1-3,dichlorobenzene	<25	25
carbon tetrachloride	<25	25	1-4,dichlorobenzene	<25	25
bromodichloromethane	<25	25			
1,2-dichloropropane	<25	25			

NON-PRIORITY POLLUTANT COMPOUNDS

acetonitrile	<150	150	vinyl acetate	<50	50
acetone	<150	150	**4-methyl-2-pentanone**	**65**	**50**
carbon disulfide	<25	25	2-hexanone	<50	50
1,1,2-trichloro-			styrene	<25	25
1,2,2-trifluoroethane	<50	50	xylenes	<25	25
2-butanone	<50	<50			

Comments: Reported in micrograms per liter.

Analyst Bill Svoboda Manager

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For Kennedy/Jenks Consultants
Attention Thom Deane
Address 17310 Red Hill Avenue, Suite 220
Irvine, CA 92714

Received 06/19/92
Reported 07/06/92

Revised 07/08/92
(K/J 924010.00)

Source:	Douglas Aircraft
Lab. No.:	9204529
Sample I.D.:	WCC7S-1
Matrix:	Water
Depth:	--
Date Collected:	06/17/92
Time Collected:	0800
Collected by:	K/J
Date Extracted:	--
Date Analyzed:	07/01/92

EPA 8240 Volatiles — **PRIORITY POLLUTANT COMPOUNDS**

Volatiles	ug/L (ppb)	Det Lim.	Volatiles	ug/L (ppb)	Det Lim.
chloromethane	<10	10	trans-1,3-dichloropropylene	<5	5
bromomethane	<10	10	**trichloroethylene**	**560**	**5**
vinyl chloride	<10	10	benzene	<5	5
chloroethane	<10	10	dibromochloromethane	<5	5
methylene chloride	<5	5	cis-1,3-dichloropropylene	<5	5
acrolein	<30	30	1,1,2-trichloroethane	<5	5
acrylonitrile	<10	10	2-chloroethylvinyl ether	<5	5
trichlorofluoromethane	<5	5	bromoform	<5	5
1,1-dichloroethylene	**230**	**5**	tetrachloroethylene	<5	5
1,1-dichloroethane	<5	5	1,1,2,2-tetrachloroethane	<5	5
cis-1,2-dichloroethylene	<5	5	toluene	<5	5
trans-1,2-dichloroethylene	<5	5	chlorobenzene	<5	5
chloroform	<5	5	ethylbenzene	<5	5
1,2-dichloroethane	<5	5	1-2,dichlorobenzene	<5	5
1,1,1-trichloroethane	<5	5	1-3,dichlorobenzene	<5	5
carbon tetrachloride	<5	5	1-4,dichlorobenzene	<5	5
bromodichloromethane	<5	5			
1,2-dichloropropane	<5	5			

NON-PRIORITY POLLUTANT COMPOUNDS

acetonitrile	<30	30	vinyl acetate	<10	10
acetone	<30	30	4-methyl-2-pentanone	<10	10
carbon disulfide	<5	5	2-hexanone	<10	10
1,1,2-trichloro-1,2,2-trifluoroethane	<10	10	styrene	<5	5
2-butanone	<10	10	xylenes	<5	5

Comments: Reported in micrograms per liter.

Analyst Bill Svoboda Manager [signature]

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LABORATORY REPORT

PACIFIC ENVIRONMENTAL LABORATORY
674 Harrison Street
San Francisco, CA 94107
415-243-2580

For Kennedy/Jenks Consultants
Attention Thom Deane
Address 17310 Red Hill Avenue, Suite 220
Ivine, CA 92714

Received 06/19/92
Reported 07/06/92

Revised 07/08/92
(K/J 924010.00)

Source:	Douglas Aircraft
Lab. No.	9204531
Sample I.D.:	WCC4S-1
Matrix:	Water
Depth:	--
Date Collected:	06/17/92
Time Collected:	0855
Collected by:	K/J
Date Extracted:	--
Date Analyzed:	07/01/92

EPA Method 8240 PRIORITY POLLUTANT COMPOUNDS

Volatiles	ug/L (ppb) Det	Lim.	Volatiles	ug/L (ppb) Det	Lim.
chloromethane	<50	50	trans-1,3-dichloropropylene	<25	25
bromomethane	<50	50	**trichloroethylene**	**1500**	**25**
vinyl chloride	<50	50	benzene	<25	25
chloroethane	<50	50	dibromochloromethane	<25	25
methylene chloride	<25	25	cis-1,3-dichloropropylene	<25	25
acrolein	<150	150	1,1,2-trichloroethane	<25	25
acrylonitrile	<50	50	2-chloroethylvinyl ether	<25	25
trichlorofluoromethane	<25	25	bromoform	<25	25
1,1-dichloroethylene	**920**	**25**	tetrachloroethylene	<25	25
1,1-dichloroethane	<25	25	1,1,2,2-tetrachloroethane	<25	25
cis-1,2-dichloroethylene	<25	25	toluene	<25	25
trans-1,2-dichloroethylene	<25	25	chlorobenzene	<25	25
chloroform	<25	25	ethylbenzene	<25	25
1,2-dichloroethane	<25	25	1-2,dichlorobenzene	<25	25
1,1,1-trichloroethane	<25	25	1-3,dichlorobenzene	<25	25
carbon tetrachloride	<25	25	1-4,dichlorobenzene	<25	25
bromodichloromethane	<25	25			
1,2-dichloropropane	<25	25			

NON-PRIORITY POLLUTANT COMPOUNDS

acetonitrile	<150	150	vinyl acetate	<50	50
acetone	<150	150	4-methyl-2-pentanone	<50	50
carbon disulfide	<25	25	2-hexanone	<50	50
1,1,2-trichloro-			styrene	<25	25
1,2,2-trifluoroethane	<50	50	xylenes	<25	25
2-butanone	<50	<50			

Comments: Reported in micrograms per liter.

Analyst Bill Svoboda Manager [signature]

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For Kennedy/Jenks Consultants
Attention Thom Deane
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Irvine, CA 92714

Received 06/19/92
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(K/J 924010.00)

Source:	Douglas Aircraft
Lab. No.:	9204532
Sample I.D.:	WCC6S-1
Matrix:	Water
Depth:	--
Date Collected:	06/17/92
Time Collected:	1005
Collected by:	K/J
Date Extracted:	--
Date Analyzed:	07/01/92

EPA 8240 Volatiles — **PRIORITY POLLUTANT COMPOUNDS**

Volatiles	ug/L (ppb)	Det Lim.	Volatiles	ug/L (ppb)	Det Lim.
chloromethane	<1000	1000	trans-1,3-dichloropropylene	<500	500
bromomethane	<1000	1000	**trichloroethylene**	**3000**	**500**
vinyl chloride	<1000	1000	benzene	<500	500
chloroethane	<1000	1000	dibromochloromethane	<500	500
methylene chloride	<500	500	cis-1,3-dichloropropylene	<500	500
acrolein	<3000	3000	1,1,2-trichloroethane	<500	500
acrylonitrile	<1000	1000	2-chloroethylvinyl ether	<500	500
trichlorofluoromethane	<500	500	bromoform	<500	500
1,1-dichloroethylene	**5400**	**500**	tetrachloroethylene	<500	500
1,1-dichloroethane	<500	500	1,1,2,2-tetrachloroethane	<500	500
cis-1,2-dichloroethylene	<500	500	**toluene**	**15000**	**500**
trans-1,2-dichloroethylene	<500	500	chlorobenzene	<500	500
chloroform	<500	500	ethylbenzene	<500	500
1,2-dichloroethane	<500	500	1-2,dichlorobenzene	<500	500
1,1,1-trichloroethane	**2100**	**500**	1-3,dichlorobenzene	<500	500
carbon tetrachloride	<500	500	1-4,dichlorobenzene	<500	500
bromodichloromethane	<500	500			
1,2-dichloropropane	<500	500			

NON-PRIORITY POLLUTANT COMPOUNDS

acetonitrile	<3000	3000	vinyl acetate	<1000	1000
acetone	<3000	3000	**4-methyl-2-pentanone**	**7600**	**1000**
carbon disulfide	<500	500	2-hexanone	<1000	1000
1,1,2-trichloro-			styrene	<500	500
1,2,2-trifluoroethane	<1000	1000	xylenes	<500	500
2-butanone	**6300**	**1000**			

Comments: Reported in micrograms per liter.

Analyst Bill Svoboda Manager Valerie Dean

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Address 17310 Red Hill Avenue, Suite 220
Ivine, CA 92714

Received 06/19/92
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Source:	Douglas Aircraft
Lab. No.	9204533
Sample I.D.:	WCC8S-1
Matrix:	Water
Depth:	--
Date Collected:	06/17/92
Time Collected:	1055
Collected by:	K/J
Date Extracted:	--
Date Analyzed:	07/01/92

EPA Method 8240 PRIORITY POLLUTANT COMPOUNDS

Volatiles	ug/L (ppb) Det	Lim.	Volatiles	ug/L (ppb) Det	Lim.
chloromethane	<50	50	trans-1,3-dichloropropylene	<25	25
bromomethane	<50	50	**trichloroethylene**	**2400**	**25**
vinyl chloride	<50	50	benzene	<25	25
chloroethane	<50	50	dibromochloromethane	<25	25
methylene chloride	<25	25	cis-1,3-dichloropropylene	<25	25
acrolein	<150	150	1,1,2-trichloroethane	<25	25
acrylonitrile	<50	50	2-chloroethylvinyl ether	<25	25
trichlorofluoromethane	<25	25	bromoform	<25	25
1,1-dichloroethylene	**2200**	**25**	tetrachloroethylene	<25	25
1,1-dichloroethane	<25	25	1,1,2,2-tetrachloroethane	<25	25
cis-1,2-dichloroethylene	<25	25	toluene	<25	25
trans-1,2-dichloroethylene	<25	25	chlorobenzene	<25	25
chloroform	<25	25	ethylbenzene	<25	25
1,2-dichloroethane	<25	25	1-2,dichlorobenzene	<25	25
1,1,1-trichloroethane	**180**	**25**	1-3,dichlorobenzene	<25	25
carbon tetrachloride	<25	25	1-4,dichlorobenzene	<25	25
bromodichloromethane	<25	25			
1,2-dichloropropane	<25	25			

NON-PRIORITY POLLUTANT COMPOUNDS

acetonitrile	<150	150	vinyl acetate	<50	50
acetone	<150	150	4-methyl-2-pentanone	<50	50
carbon disulfide	<25	25	2-hexanone	<50	50
1,1,2-trichloro-			styrene	<25	25
1,2,2-trifluoroethane	<50	50	xylenes	<25	25
2-butanone	<50	<50			

Comments: Reported in micrograms per liter.

Analyst Bill Svoboda Manager [signature]

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For Kennedy/Jenks Consultants
Attention Thom Deane
Address 17310 Red Hill Avenue, Suite 220
Irvine, CA 92714

Received 06/19/92
Reported 07/06/92

Revised 07/08/92
(K/J 924010.00)

Source:	Douglas Aircraft
Lab. No.:	9204534
Sample I.D.:	FB-061792
Matrix:	Water
Depth:	--
Date Collected:	06/17/92
Time Collected:	1140
Collected by:	K/J
Date Extracted:	--
Date Analyzed:	07/01/92

EPA 624 Volatiles — **PRIORITY POLLUTANT COMPOUNDS**

Volatiles	ug/L (ppb)	Det Lim.	Volatiles	ug/L (ppb)	Det Lim.
chloromethane	<10	10	trans-1,3-dichloropropylene	<5	5
bromomethane	<10	10	trichloroethylene	<5	5
vinyl chloride	<10	10	benzene	<5	5
chloroethane	<10	10	dibromochloromethane	<5	5
methylene chloride	<5	5	cis-1,3-dichloropropylene	<5	5
acrolein	<30	30	1,1,2-trichloroethane	<5	5
acrylonitrile	<10	10	2-chloroethylvinyl ether	<5	5
trichlorofluoromethane	<5	5	bromoform	<5	5
1,1-dichloroethylene	<5	5	tetrachloroethylene	<5	5
1,1-dichloroethane	<5	5	1,1,2,2-tetrachloroethane	<5	5
cis-1,2-dichloroethylene	<5	5	toluene	<5	5
trans-1,2-dichloroethylene	<5	5	chlorobenzene	<5	5
chloroform	**9**	**5**	ethylbenzene	<5	5
1,2-dichloroethane	<5	5	1-2,dichlorobenzene	<5	5
1,1,1-trichloroethane	<5	5	1-3,dichlorobenzene	<5	5
carbon tetrachloride	<5	5	1-4,dichlorobenzene	<5	5
bromodichloromethane	<5	5			
1,2-dichloropropane	<5	5			

NON-PRIORITY POLLUTANT COMPOUNDS

acetonitrile	<30	30	vinyl acetate	<10	10
acetone	<30	30	4-methyl-2-pentanone	<10	10
carbon disulfide	<5	5	2-hexanone	<10	10
1,1,2-trichloro-1,2,2-trifluoroethane	<10	10	styrene	<5	5
2-butanone	<10	10	xylenes	<5	5

Comments: Reported in micrograms per liter.

Analyst Bill Svoboda Manager Valerie Lear

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Address 17310 Red Hill Avenue, Suite 220
Irvine, CA 92714

Received 06/19/92
Reported 07/06/92

Revised 07/08/92
(K/J 924010.00)

Source:	Douglas Aircraft
Lab. No.:	9204535
Sample I.D.:	DW-061792
Matrix:	Water
Depth:	--
Date Collected:	06/17/92
Time Collected:	--
Collected by:	K/J
Date Extracted:	--
Date Analyzed:	07/01/92

EPA 8240 Volatiles — **PRIORITY POLLUTANT COMPOUNDS**

Volatiles	ug/L (ppb)	Det Lim.	Volatiles	ug/L (ppb)	Det Lim.
chloromethane	<100	100	trans-1,3-dichloropropylene	<50	50
bromomethane	<100	100	**trichloroethylene**	**2600**	**50**
vinyl chloride	<100	100	benzene	<50	50
chloroethane	<100	100	dibromochloromethane	<50	50
methylene chloride	<50	50	cis-1,3-dichloropropylene	<50	50
acrolein	<300	300	1,1,2-trichloroethane	<50	50
acrylonitrile	<100	100	2-chloroethylvinyl ether	<50	50
trichlorofluoromethane	<50	50	bromoform	<50	50
1,1-dichloroethylene	**2300**	**50**	tetrachloroethylene	<50	50
1,1-dichloroethane	<50	50	1,1,2,2-tetrachloroethane	<50	50
cis-1,2-dichloroethylene	<50	50	toluene	<50	50
trans-1,2-dichloroethylene	<50	50	chlorobenzene	<50	50
chloroform	<50	50	ethylbenzene	<50	50
1,2-dichloroethane	<50	50	1-2,dichlorobenzene	<50	50
1,1,1-trichloroethane	**180**	**50**	1-3,dichlorobenzene	<50	50
carbon tetrachloride	<50	50	1-4,dichlorobenzene	<50	50
bromodichloromethane	<50	50			
1,2-dichloropropane	<50	50			

NON-PRIORITY POLLUTANT COMPOUNDS

acetonitrile	<300	300	vinyl acetate	<100	100
acetone	<300	300	4-methyl-2-pentanone	<100	100
carbon disulfide	<50	50	2-hexanone	<100	100
1,1,2-trichloro-			styrene	<50	50
1,2,2-trifluoroethane	<100	100	xylenes	<50	50
2-butanone	<100	100			

Comments: Reported in micrograms per liter.

Analyst Bill Svoboda Manager [signature]

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LABORATORY REPORT

PACIFIC ENVIRONMENTAL LABORATORY
674 Harrison Street
San Francisco, CA 94107
415-243-2580

For	Kennedy/Jenks Consultants
Attention	Thom Deane
Address	17310 Red Hill Avenue, Suite 220 Irvine, CA 92714

Received 06/19/92
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(K/J 924010.00)

Source:	Douglas Aircraft
Lab. No.:	9204536
Sample I.D.:	WCC1S-1
Matrix:	Water
Depth:	--
Date Collected:	06/17/92
Time Collected:	1255
Collected by:	K/J
Date Extracted:	--
Date Analyzed:	07/01/92

EPA 8240

PRIORITY POLLUTANT COMPOUNDS

Volatiles	ug/L (ppb)	Det Lim.	Volatiles	ug/L (ppb)	Det Lim.
chloromethane	<10	10	trans-1,3-dichloropropylene	<5	5
bromomethane	<10	10	**trichloroethylene**	**380**	**5**
vinyl chloride	<10	10	benzene	<5	5
chloroethane	<10	10	dibromochloromethane	<5	5
methylene chloride	<5	5	cis-1,3-dichloropropylene	<5	5
acrolein	<30	30	1,1,2-trichloroethane	<5	5
acrylonitrile	<10	10	2-chloroethylvinyl ether	<5	5
trichlorofluoromethane	<5	5	bromoform	<5	5
1,1-dichloroethylene	**170**	**5**	tetrachloroethylene	<5	5
1,1-dichloroethane	<5	5	1,1,2,2-tetrachloroethane	<5	5
cis-1,2-dichloroethylene	<5	5	toluene	<5	5
trans-1,2-dichloroethylene	<5	5	chlorobenzene	<5	5
chloroform	<5	5	ethylbenzene	<5	5
1,2-dichloroethane	<5	5	1-2,dichlorobenzene	<5	5
1,1,1-trichloroethane	<5	5	1-3,dichlorobenzene	<5	5
carbon tetrachloride	<5	5	1-4,dichlorobenzene	<5	5
bromodichloromethane	<5	5			
1,2-dichloropropane	<5	5			

NON-PRIORITY POLLUTANT COMPOUNDS

acetonitrile	<30	30	vinyl acetate	<10	10
acetone	<30	30	4-methyl-2-pentanone	<10	10
carbon disulfide	<5	5	2-hexanone	<10	10
1,1,2-trichloro-1,2,2-trifluoroethane	<10	10	styrene	<5	5
2-butanone	<10	10	xylenes	<5	5

Comments: Reported in micrograms per liter.

Analyst Bill Svoboda

Manager [signature]

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For Kennedy/Jenks Consultants
Attention Thom Deane
Address 17310 Red Hill Avenue, Suite 220
Irvine, CA 92714

Received 06/19/92
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(K/J 924010.00)

Source:	Douglas Aircraft
Lab. No.:	9204537
Sample I.D.:	WCC3S-1
Matrix:	Water
Depth:	--
Date Collected:	06/17/92
Time Collected:	1355
Collected by:	K/J
Date Extracted:	--
Date Analyzed:	07/01/92

EPA 8240 **PRIORITY POLLUTANT COMPOUNDS**

Volatiles	ug/L (ppb)	Det Lim.	Volatiles	ug/L (ppb)	Det Lim.
chloromethane	<10	10	trans-1,3-dichloropropylene	<5	5
bromomethane	<10	10	**trichloroethylene**	**13**	**5**
vinyl chloride	<10	10	benzene	<5	5
chloroethane	<10	10	dibromochloromethane	<5	5
methylene chloride	<5	5	cis-1,3-dichloropropylene	<5	5
acrolein	<30	30	1,1,2-trichloroethane	<5	5
acrylonitrile	<10	10	2-chloroethylvinyl ether	<5	5
trichlorofluoromethane	<5	5	bromoform	<5	5
1,1-dichloroethylene	**25**	**5**	tetrachloroethylene	<5	5
1,1-dichloroethane	<5	5	1,1,2,2-tetrachloroethane	<5	5
cis-1,2-dichloroethylene	<5	5	**toluene**	**51**	**5**
trans-1,2-dichloroethylene	<5	5	chlorobenzene	<5	5
chloroform	<5	5	ethylbenzene	<5	5
1,2-dichloroethane	<5	5	1-2,dichlorobenzene	<5	5
1,1,1-trichloroethane	**13**	**5**	1-3,dichlorobenzene	<5	5
carbon tetrachloride	<5	5	1-4,dichlorobenzene	<5	5
bromodichloromethane	<5	5			
1,2-dichloropropane	<5	5			

NON-PRIORITY POLLUTANT COMPOUNDS

acetonitrile	<30	30	vinyl acetate	<10	10
acetone	<30	30	**4-methyl-2-pentanone**	**100**	**10**
carbon disulfide	<5	5	2-hexanone	<10	10
1,1,2-trichloro-			styrene	<5	5
1,2,2-trifluoroethane	<10	10	xylenes	<5	5
2-butanone	<10	10			

Comments: Reported in micrograms per liter.

Analyst Bill Svoboda Manager [signature]

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For Kennedy/Jenks Consultants
Attention Thom Deane
Address 17310 Red Hill Avenue, Suite 220
Irvine, CA 92714

Received --
Reported 07/06/92

Revised 07/08/92
Quality Control Page
(K/J 924010.00)

Source:	--
Lab. No.:	Method Blank
Sample I.D.:	Reagent Water
Matrix:	Water
Depth:	--
Date Collected:	--
Time Collected:	--
Collected by:	PEL
Date Extracted:	--
Date Analyzed:	07/01/92

EPA 8240 **PRIORITY POLLUTANT COMPOUNDS**

Volatiles	ug/L (ppb)	Det Lim.	Volatiles	ug/L (ppb)	Det Lim.
chloromethane	<10	10	trans-1,3-dichloropropylene	<5	5
bromomethane	<10	10	trichloroethylene	<5	5
vinyl chloride	<10	10	benzene	<5	5
chloroethane	<10	10	dibromochloromethane	<5	5
methylene chloride	<5	5	cis-1,3-dichloropropylene	<5	5
acrolein	<30	30	1,1,2-trichloroethane	<5	5
acrylonitrile	<10	10	2-chloroethylvinyl ether	<5	5
trichlorofluoromethane	<5	5	bromoform	<5	5
1,1-dichloroethylene	<5	5	tetrachloroethylene	<5	5
1,1-dichloroethane	<5	5	1,1,2,2-tetrachloroethane	<5	5
cis-1,2-dichloroethylene	<5	5	toluene	<5	5
trans-1,2-dichloroethylene	<5	5	chlorobenzene	<5	5
chloroform	<5	5	ethylbenzene	<5	5
1,2-dichloroethane	<5	5	1-2,dichlorobenzene	<5	5
1,1,1-trichloroethane	<5	5	1-3,dichlorobenzene	<5	5
carbon tetrachloride	<5	5	1-4,dichlorobenzene	<5	5
bromodichloromethane	<5	5			
1,2-dichloropropane	<5	5			

NON-PRIORITY POLLUTANT COMPOUNDS

acetonitrile	<30	30	vinyl acetate	<10	10
acetone	<30	30	4-methyl-2-pentanone	<10	10
carbon disulfide	<5	5	2-hexanone	<10	10
1,1,2-trichloro-			styrene	<5	5
1,2,2-trifluoroethane	<10	10	xylenes	<5	5
2-butanone	<10	10			

Comments: Reported in micrograms per liter.

Analyst Bill Svoboda Manager

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Attention Thom Deane
Address 17310 Red Hill Avenue, Suite 220
Irvine, CA 92714

Received ---
Reported 07/06/92
Quality Control Page
(K/J 924010.00)

Sample Identification		Percent Recoveries		
Lab. No.	Type	1,2-dichloroethane-d4	toluene-d8	4-bromofluorobenzene
Method Blank	Water	91	96	96
9204529	Water	97	96	101
9204384	Water	106	104	104
9204531	Water	93	91	95
9204533	Water	104	106	106
9204535	Water	108	108	108
9204532	Water	101	92	100
9504536	Water	93	88	88
9204537	Water	89	95	86
9204534**	Water	112	109	113

Acceptable Recoveries:	Water	Soil
1,2-dichloroethane-d4	76-114	70-121
toluene-d8	88-110	81-117
4-bromofluorobenzene	86-115	74-121

Comments: Analysis by U.S. EPA Method 8240. **Analysis by U.S. EPA Method 624.

Analyst Bill Svoboda Manager

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LABORATORY REPORT

PACIFIC ENVIRONMENTAL LABORATORY
674 Harrison Street
San Francisco, CA 94107
415-243-2580

For Kennedy/Jenks Consultants
Attention Thom Deane
Address 17310 Red Hill Avenue, Suite 220
Irvine, CA 92714

Received 06/19/92
Reported 07/06/92

Revised 07/08/92
(K/J 924010.00)

Source:	Douglas Aircraft
Lab. No.:	9204530
Sample I.D.:	TB-061792
Matrix:	Water
Depth:	--
Date Collected:	06/17/92
Time Collected:	0800
Collected by:	K/J
Date Extracted:	--
Date Analyzed:	06/30/92

EPA 624 Volatiles — **PRIORITY POLLUTANT COMPOUNDS**

Volatiles	ug/L (ppb)	Det Lim.	Volatiles	ug/L (ppb)	Det Lim.
chloromethane	<10	10	trans-1,3-dichloropropylene	<5	5
bromomethane	<10	10	trichloroethylene	<5	5
vinyl chloride	<10	10	benzene	<5	5
chloroethane	<10	10	dibromochloromethane	<5	5
methylene chloride	<5	5	cis-1,3-dichloropropylene	<5	5
acrolein	<30	30	1,1,2-trichloroethane	<5	5
acrylonitrile	<10	10	2-chloroethylvinyl ether	<5	5
trichlorofluoromethane	<5	5	bromoform	<5	5
1,1-dichloroethylene	<5	5	tetrachloroethylene	<5	5
1,1-dichloroethane	<5	5	1,1,2,2-tetrachloroethane	<5	5
cis-1,2-dichloroethylene	<5	5	toluene	<5	5
trans-1,2-dichloroethylene	<5	5	chlorobenzene	<5	5
chloroform	<5	5	ethylbenzene	<5	5
1,2-dichloroethane	<5	5	1-2,dichlorobenzene	<5	5
1,1,1-trichloroethane	<5	5	1-3,dichlorobenzene	<5	5
carbon tetrachloride	<5	5	1-4,dichlorobenzene	<5	5
bromodichloromethane	<5	5			
1,2-dichloropropane	<5	5			

NON-PRIORITY POLLUTANT COMPOUNDS

acetonitrile	<30	30	vinyl acetate	<10	10
acetone	<30	30	4-methyl-2-pentanone	<10	10
carbon disulfide	<5	5	2-hexanone	<10	10
1,1,2-trichloro-1,2,2-trifluoroethane	<10	10	styrene	<5	5
2-butanone	<10	10	xylenes	<5	5

Comments: Reported in micrograms per liter.

Analyst Racquel Seludo Manager Valerie Gran

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Received --
Reported 07/06/92

Revised 07/08/92
Quality Control Page
(K/J 924010.00)

Source:	--
Lab. No.:	Method Blank
Sample I.D.:	Reagent Water
Matrix:	Water
Depth:	--
Date Collected:	--
Time Collected:	--
Collected by:	PEL
Date Extracted:	--
Date Analyzed:	06/30/92

EPA 624 **PRIORITY POLLUTANT COMPOUNDS**

Volatiles	ug/L (ppb)	Det Lim.	Volatiles	ug/L (ppb)	Det Lim.
chloromethane	<10	10	trans-1,3-dichloropropylene	<5	5
bromomethane	<10	10	trichloroethylene	<5	5
vinyl chloride	<10	10	benzene	<5	5
chloroethane	<10	10	dibromochloromethane	<5	5
methylene chloride	<5	5	cis-1,3-dichloropropylene	<5	5
acrolein	<30	30	1,1,2-trichloroethane	<5	5
acrylonitrile	<10	10	2-chloroethylvinyl ether	<5	5
trichlorofluoromethane	<5	5	bromoform	<5	5
1,1-dichloroethylene	<5	5	tetrachloroethylene	<5	5
1,1-dichloroethane	<5	5	1,1,2,2-tetrachloroethane	<5	5
cis-1,2-dichloroethylene	<5	5	toluene	<5	5
trans-1,2-dichloroethylene	<5	5	chlorobenzene	<5	5
chloroform	<5	5	ethylbenzene	<5	5
1,2-dichloroethane	<5	5	1-2,dichlorobenzene	<5	5
1,1,1-trichloroethane	<5	5	1-3,dichlorobenzene	<5	5
carbon tetrachloride	<5	5	1-4,dichlorobenzene	<5	5
bromodichloromethane	<5	5			
1,2-dichloropropane	<5	5			

NON-PRIORITY POLLUTANT COMPOUNDS

acetonitrile	<30	30	vinyl acetate	<10	10
acetone	<30	30	4-methyl-2-pentanone	<10	10
carbon disulfide	<5	5	2-hexanone	<10	10
1,1,2-trichloro-1,2,2-trifluoroethane	<10	10	styrene	<5	5
2-butanone	<10	10	xylenes	<5	5

Comments: Reported in micrograms per liter.

Analyst Racquel Seludo Manager

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Reported 07/06/92
Quality Control Page
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Sample Identification		Percent Recoveries		
Lab. No.	Type	1,2-dichloroethane-d4	toluene-d8	4-bromofluorobenzene
Method Blank	Water	91	100	96
9204530	Water	93	99	92

Acceptable Recoveries:	Water	Soil
1,2-dichloroethane-d4	76-114	70-121
toluene-d8	88-110	81-117
4-bromofluorobenzene	86-115	74-121

Comments: Analysis by U.S. EPA Method 624.

Analyst Racquel Seludo Manager Valerie Gray

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Received 06/19/92
Reported 07/08/92

(K/J 924010.00)

Source:	Douglas Aircraft
Lab. No.	9204538
Sample I.D.:	DACP1-1
Matrix:	Water
Depth:	--
Date Collected:	06/17/92
Time Collected:	1530
Collected by:	K/J
Date Extracted:	--
Date Analyzed:	07/07/92

EPA Method 8240 — PRIORITY POLLUTANT COMPOUNDS

Volatiles	ug/L (ppb)	Det Lim.	Volatiles	ug/L (ppb)	Det Lim.
chloromethane	<10	10	trans-1,3-dichloropropylene	<5	5
bromomethane	<10	10	**trichloroethylene**	**21,000**	**5**
vinyl chloride	<10	10	benzene	<5	5
chloroethane	<10	10	dibromochloromethane	<5	5
methylene chloride	<5	5	cis-1,3-dichloropropylene	<5	5
acrolein	<30	30	1,1,2-trichloroethane	<5	5
acrylonitrile	<10	10	2-chloroethylvinyl ether	<5	5
trichlorofluoromethane	<5	5	bromoform	<5	5
1,1-dichloroethylene	<5	5	tetrachloroethylene	<5	5
1,1-dichloroethane	<5	5	1,1,2,2-tetrachloroethane	<5	5
cis-1,2-dichloroethylene	**13**	**5**	toluene	<5	5
trans-1,2-dichloroethylene	<5	5	chlorobenzene	<5	5
chloroform	**10**	**5**	ethylbenzene	<5	5
1,2-dichloroethane	<5	5	1-2,dichlorobenzene	<5	5
1,1,1-trichloroethane	<5	5	1-3,dichlorobenzene	<5	5
carbon tetrachloride	<5	5	1-4,dichlorobenzene	<5	5
bromodichloromethane	<5	5			
1,2-dichloropropane	<5	5			

NON-PRIORITY POLLUTANT COMPOUNDS

acetonitrile	<30	30	vinyl acetate	<10	10
acetone	<30	30	4-methyl-2-pentanone	<10	10
carbon disulfide	<5	5	2-hexanone	<10	10
1,1,2-trichloro-			styrene	<5	5
1,2,2-trifluoroethane	<10	10	xylenes	<5	5
2-butanone	<10	10			

Comments: Reported in micrograms per liter.

Analyst Bill Svoboda Manager Valerie Gray

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Reported 07/08/92

Quality Control Page
(K/J 924010.00)

Source:	--
Lab. No.:	Method Blank
Sample I.D.:	Reagent Water
Matrix:	Water
Depth:	--
Date Collected:	--
Time Collected:	--
Collected by:	PEL
Date Extracted:	--
Date Analyzed:	07/07/92

EPA 8240

PRIORITY POLLUTANT COMPOUNDS

Volatiles	ug/L (ppb)	Det Lim.	Volatiles	ug/L (ppb)	Det Lim.
chloromethane	<10	10	trans-1,3-dichloropropylene	<5	5
bromomethane	<10	10	trichloroethylene	<5	5
vinyl chloride	<10	10	benzene	<5	5
chloroethane	<10	10	dibromochloromethane	<5	5
methylene chloride	<5	5	cis-1,3-dichloropropylene	<5	5
acrolein	<30	30	1,1,2-trichloroethane	<5	5
acrylonitrile	<10	10	2-chloroethylvinyl ether	<5	5
trichlorofluoromethane	<5	5	bromoform	<5	5
1,1-dichloroethylene	<5	5	tetrachloroethylene	<5	5
1,1-dichloroethane	<5	5	1,1,2,2-tetrachloroethane	<5	5
cis-1,2-dichloroethylene	<5	5	toluene	<5	5
trans-1,2-dichloroethylene	<5	5	chlorobenzene	<5	5
chloroform	<5	5	ethylbenzene	<5	5
1,2-dichloroethane	<5	5	1-2,dichlorobenzene	<5	5
1,1,1-trichloroethane	<5	5	1-3,dichlorobenzene	<5	5
carbon tetrachloride	<5	5	1-4,dichlorobenzene	<5	5
bromodichloromethane	<5	5			
1,2-dichloropropane	<5	5			

NON-PRIORITY POLLUTANT COMPOUNDS

acetonitrile	<30	30	vinyl acetate	<10	10
acetone	<30	30	4-methyl-2-pentanone	<10	10
carbon disulfide	<5	5	2-hexanone	<10	10
1,1,2-trichloro-			styrene	<5	5
1,2,2-trifluoroethane	<10	10	xylenes	<5	5
2-butanone	<10	10			

Comments: Reported in micrograms per liter.

Analyst Bill Svoboda Manager Valerie Tran

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Received ---
Reported 07/08/92
Quality Control Page
(K/J 924010.00)

Sample Identification		Percent Recoveries		
Lab. No.	Type	1,2-dichloroethane-d4	toluene-d8	4-bromofluorobenzene
Method Blank	Water	99	93	100
9204538	Water	101	95	110

Acceptable Recoveries:	Water	Soil
1,2-dichloroethane-d4	76-114	70-121
toluene-d8	88-110	81-117
4-bromofluorobenzene	86-115	74-121

Comments: Analysis by U.S. EPA Method 8240.

Analyst Bill Svoboda Manager Valerie Sa

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APPENDIX B

GROUNDWATER PURGE AND SAMPLE FORMS
WATER ELEVATION SUMMARY

WATER LEVEL DATA SHEET

Well No.	Date Mo/Day/Yr	Time	Well Elevation	Depth To Water	Water Elevation	Initials	Comments
WCC-1S	6/15/92	1005	50.70	69.90	-19.20	JLM	
WCC-2S		0942	50.59	69.74	-19.15	JLM	
WCC-3S		1013	51.19	70.43	-19.24	JLM	
WCC-4S		0956	49.69	68.91	-19.22	JLM	
WCC-5S		1556	48.22	67.35	-19.13	JLM	
WCC-6S		1001	50.95	70.35	-19.40	JLM	
WCC-7S		0953	48.29	67.92	-19.63	JLM	
WCC-8S		1008	50.56	69.67	-19.11	JLM	
WCC-9S		0927	47.01	66.45	-19.44	JLM	
WCC-10S		1028	51.12	70.06	-18.94	JLM	
WCC-11S		0906	49.97	67.59	-17.62	JLM	
WCC-12S		0949	46.92	66.52	-19.60	JLM	
WCC-1D		0914	50.45	70.00	-19.55	JLM	
WCC-3D		0852	51.18	70.57	-19.39	JLM	
DAC-P1	6/15/92	1031	52.44	70.20	-17.76	JLM	

Job No. 924511.00 Facility Douglas Aircraft

GROUNDWATER SAMPLING RECORD

Facility Name Douglas Aircraft Date 6/17/92

Well Number WCC-15 Well Depth 88.5 Well Diameter 2" Casing Material PVC

Sampling Crew JLM, ____, ____, ____

Type of Pump SS bailer Sampler 2" SS bailer.

Weather Conditions Fair

Time	Water Level	Pump	Volume Pumped (gal)	Pumping Rate (gpm)	Sample Collection	Temp (°C)	pH	Cond (uS)	Clarity
6/15	~~70.05~~ 69.90 *								
6/17 ~~1145~~			0						
1210			5			25	7.3	1482	silty Cloudy
1230			10			26	7.3	1514	silty Cloudy
1250			15			26	7.3	1449	cloudy
1255					WCC 15-1				

3 Well Volumes = 9 gallons

88.5 - 70.05 = 18.45 x .16 = 3 gall

3 x 5 = 15

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

* Corrected 6/23/92

GROUNDWATER SAMPLING RECORD

Facility Name Douglas Aircraft Date 6/16/92

Well Number WCC-25 Well Depth 90.5 Well Diameter 4" Casing Material PVC

Sampling Crew JLM, , ,

Type of Pump Submersible Sampler 2" SS bailer

Weather Conditions Fair, breezy

Time	Water Level	Pump	Volume Pumped (gal)	Pumping Rate (gpm)	Sample Collection	Temp (°C)	pH	Cond (uS)	Clarity
0992	~~70.10~~	69.74*							
1310	~~70.10~~	69.74*	1	~~5 gal~~ 1.75m Note		29	7.4	1376	cloudy
1312	~~71.45~~ 71.09	*	5	2.85		25	7.4	1381	cloudy
1314			11			25	7.5	1375	cloudy
1316			17			25	7.5	1372	sl. cloudy
1318			23			25	7.5	1381	sl. cloudy
1320	~~71.5~~ 71.14		29			25	7.5	1370	sl. cloudy
1322			35			25	7.5	1368	sl. cloudy
1324			41			25	7.5	1372	sl. cloudy
1326	~~71.55~~ 71.19		48			25	7.5	1370	sl. cloudy
1328			54			25	7.5	1369	vsl. cloudy
1330			60			25	7.6	1371	clear
1332			66			25	7.5	1369	clear
1334			72			25	7.5	1370	clear
1336			78			25	7.4	1364	clear
1337	~~71.55~~ 71.19								
1339	~~70.50~~ 70.14								13.
1350									5
									65.

3 Well Volumes = 39.6

90.5 − 70.1 = 20.4

WCC25-1

.65

1020

12240

13260

3

39.6

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

* corrected 6/23/92

GROUNDWATER SAMPLING RECORD

Facility Name Douglas Aircraft Date 6/17/92

Well Number WCC-3S Well Depth 89' Well Diameter 4" Casing Material PVC

Sampling Crew JLM, , ,

Type of Pump Submerssible Sampler 2" SS bailer

Weather Conditions Fair, Sunny Smoggy

Time	Water Level	Pump	Volume Pumped (gal)	Pumping Rate (gpm)	Sample Collection	Temp (°C)	pH	Cond (uS)	Clarity
6/15 1013	~~70.76~~ * 70.43								clear
1322			5			25	6.8	2420	clear
1325	~~71.50~~ *		14	3.33		25	6.8	2260	clear
1327	71.18		20			25	6.8	2190	sl cloudy 35ppm
1329			26			25	6.9	2160	sl. cloudy
1331			32			25	6.8	2120	sl cloudy
1333			38			25	6.8	2110	mostly clear
1335			44			25	6.8	2100	clear
1337	~~71.20~~ *		50			25	6.8	2110	clear
1339	71.88		57			25	6.8	2140	clear
1341			63			25	6.8	2090	clear
1343			69			25	6.8	2060	clear
1355					WCC3S-1				

3 Well Volumes = 35 gallons

89-71 = 18' x .65 = 11.7 x 3 35.1

1.5 | 5.0 (3)
4.5

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

* corrected 6/23/92

GROUNDWATER SAMPLING RECORD

Facility Name Douglas Aircraft Date 6/17/92

Well Number WCC-4S Well Depth 90.5' Well Diameter _____ Casing Material _____

Sampling Crew Jon, _____, _____, _____

Type of Pump Sub Sampler 2" SS bailer

Weather Conditions Fair

Time	Water Level	Pump	Volume Pumped (gal)	Pumping Rate (gpm)	Sample Collection	Temp (°C)	pH	Cond (uS)	Clarity
6/15	~~69.46~~	68.91	~~7~~						
6/17 0826			0						
0827	~~70.50~~ 69.95 *		1	3.3		25	7.6	1285	clear
0830			10			24	7.6	1311	clear
0832			13			24	7.6	1325	clear
0834			19			24	7.5	1310	clear
0836			25			24	7.5	1311	clear
0838			31			24	7.5	1303	clear
0840			37			24	7.5	1286	clear
0842			43			24	7.5	1275	clear
0844			49			24	7.4	1269	clear
0846			55			24	7.5	1254	clear
0855	~~69.45~~ 68.90 *				WCC4S-1				

3 Well Volumes = 41 gallons.

90.5 - 69.5 = 21'

21'
.65
105
126 0
13.65

13.65
3
40.95

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

*corrected 6/23/92

GROUNDWATER SAMPLING RECORD

Facility Name: Douglas Aircraft Date: 6/15/92

Well Number: WCC-55 Well Depth: 91' Well Diameter: 4" Casing Material: PVC

Sampling Crew: Jim, ____, ____, ____

Type of Pump: Submerssible Sampler: 2" SS bailer

Weather Conditions: Fair, breezy

Time	Water Level	Pump	Volume Pumped (gal)	Pumping Rate (gpm)	Sample Collection	Temp (°C)	pH	Cond (uS)	Clarity
1550	~~68.00~~	*	0						
1611	67.35		0						
1612	68.6		4			26	7.3	~~1680~~	sl. cloudy
1616			12	5 gal 1.75 min		24	7.4	1688	sl. cloudy
1618			~~15~~ 18	2.85		24	7.5	1675	sl. cloudy
1620			~~21~~ 24			24	7.3	1672	sl. cloudy
1622			30			24	7.3	1683	sl. cloudy
1624			36			24	7.3	1706	clear
1626	67.95 ~~68.65~~	*	42			24	7.4	1688	clear
1628			48			24	7.4	1628	clear
1630	67.95 ~~68.65~~	*	54			24	7.3	1675	clear
1645					WCC55-1				

3 Well Volumes = 45 gallons 91 − 68 23' = 45 gallons

3 well =

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

* corrected 6/23/92

23'
.65
115
138
14.95 × 3 = 45 gallons.

See WCC-9s for calcs.

2.85
1.75 | 5.00
3.50
1.50
140
1.0

1.75
8
1400

1.75
5
8.75

BOE-C6-0072226

GROUNDWATER SAMPLING RECORD

Facility Name Douglas Aircraft Date 6/17/92

Well Number WCC-C6 Well Depth 90.5 Well Diameter 4" Casing Material PVC

Sampling Crew JM, ____, ____, ____

Type of Pump Sub Sampler 2" SS bailer

Weather Conditions fair

Time	Water Level	Pump	Volume Pumped (gal)	Pumping Rate (gpm)	Sample Collection	Temp (°C)	pH	Cond (uS)	Clarity	
6/15 1001	~~70.05~~ *									
6/17 0920	70.35		0							
0928	~~72.40~~		1	3.75		26	7.4	1366	clear	10ppm
0930	71.90 *		7.5			25	7.2	1328	clear	sl. odor
0932			16.5			25	7.3	1279	clear	
0934	72.40 *		24.0			25	7.3	1243	clear	
0936	71.90		31.5			25	7.3	[illegible]	clear	
0938			39.0			25	7.3	1228	clear	
0940			46.5			25	7.3	1224	clear	
0942	~~72.5~~ 72.0		54.0			25	7.2	1228	clear	
0945	~~70.05~~ *				WCC65-1					
	70.35									

3 Well Volumes = 33 gallons

90.5 − 71 = 19.5'
× .65
12.675 × 3

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

* corrected 6/23/92

GROUNDWATER SAMPLING RECORD

Facility Name Douglas Aircraft Date 6-17-92

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

Sampling Crew JLM, , ,

Type of Pump Sub Sampler SS bailer

Weather Conditions Fair

Time	Water Level	Pump	Volume Pumped (gal)	Pumping Rate (gpm)	Sample Collection	Temp (°C)	pH	Cond (uS)	Clarity
6/15 0953	~~68.17~~ 67.92*								
6/17 730	▽		0						
733			5	3.3		24	7.6	930	clear
735			11			24	7.5	905	clear
737	~~69.75~~ 69.50		17			24	7.6	875	clear
739			23			24	7.5	873	clear
741			29			24	7.5	874	clear
743			35			24	7.5	870	clear
745			41			24	7.5	875	clear
747			49			24	7.4	881	clear
749			53			24	7.5	870	clear
0800	~~68.17~~ 67.92*				WCC75-1				

3 Well Volumes = 42.9 gallons

90-68 = 22

.65
110
1320
1430
1.3
42.9

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

* Corrected 6/23/92

GROUNDWATER SAMPLING RECORD

Facility Name Douglas Aircraft Date 6/17/92

Well Number WCC-8S Well Depth 89.5 Well Diameter 4" Casing Material PVC

Sampling Crew JLM , , ,

Type of Pump Sub Sampler 2" SS bailer

Weather Conditions Fair

Time	Water Level	Pump	Volume Pumped (gal)	Pumping Rate (gpm)	Sample Collection	Temp (°C)	pH	Cond (uS)	Clarity
2115 1008	~~70.10~~ *								
2115 1023	69.67		0						
1024			1			27	7.2	156	SI cloudy
1028			10			25	7.2	1568	clear
1030			15			25	7.4	1571	clear
1032	~~72.82~~ *		20			25	7.2	1529	clear
1034	72.39		25			25	7.2	1505	clear
1036			30			25	7.2	1466	clear
1038			35			25	7.2	1444	clear
1040			40			25	7.2	1423	clear
1042			45			25	7.2	1421	clear
1044	~~72.90~~ 72.47		50			25	7.2	1402	clear
1055	~~70.10~~ * 69.67				WCC8S-1 DW-061792				

3 Well Volumes = 41 gallons. 89.5 − 70 = 19.5

.65

975

12700 408

13675

3

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

* Corrected 6/23/92

BOE-C6-0072229

GROUNDWATER SAMPLING RECORD

Facility Name Douglas Aircraft Date 6/16/92

Well Number WCC105 Well Depth 90' Well Diameter 4" Casing Material PVC

Sampling Crew JWM, ____, ____, ____

Type of Pump Sub Sampler 2" bailer

Weather Conditions Fair

Time	Water Level	Pump	Volume Pumped (gal)	Pumping Rate (gpm)	Sample Collection	Temp (°C)	pH	Cond (uS)	Clarity
6/15 1028	~~70.25~~ *								
1137	70.06		1			30	7.3	873	clear
1141			10	2.5		25	7.4	845	clear
1143			15			25	7.3	844	clear
1145			20			25	7.3	832	clear
1147	~~72.35~~ *		25			24	7.3	828	clear
1149	72.16		30			24	7.3	832	clear
1151			35			25	7.3	828	clear
1153			40			24	7.3	832	clear
1155			45			25	7.4	841	clear
1157			50			24	7.4	845	clear
1159	~~72.21~~ *		55			24	7.4	844	clear
1210	~~70.31~~ *				WCC105-1				
	Ord 70.13								

3 Well Volumes = 39 gallons. 90 - 70 = 20

.65

13 x 3 = 39

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

* Corrected 6/23/92

GROUNDWATER SAMPLING RECORD

Facility Name Douglas Aircraft Date 6/16/92

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

Sampling Crew JLM, ____, ____, ____

Type of Pump Sub Sampler 2" SS bailer

Weather Conditions ____

Time	Water Level	Pump	Volume Pumped (gal)	Pumping Rate (gpm)	Sample Collection	Temp (°C)	pH	Cond (uS)	Clarity
6/15 0900	~~68.05~~ * 67.59								
1018		0	0	2.5					Sly cloudy
1020	~~74.5~~ * 74.04		5			29	7.3	1417	~~clear~~
1022			10			25	7.2	1462	Sl. cloudy
1024			15			24	7.3	1473	clear
1026	~~74.15~~ * 73.69		20			24	7.3	1469	clear
1028			25			24	7.3	1462	clear
1030			30			24	7.3	1448	clear
1032			35			24	7.4	1449	clear
1034	~~74.20~~ * 73.74		40			24	7.3	1425	clear
1036			45			24	7.3	1419	clear
1038			50			24	7.4	1409	clear
1040			55			24	7.3	1395	clear
1050					WCC115-1				

3 Well Volumes = 41 gallons. 90 − 69 = 21'

21 × .65 = 105 + 1260 = 1365

13.65 × 3 = 40.95

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

* Corrected 6/23/92

GROUNDWATER SAMPLING RECORD

Facility Name Douglas Aircraft Date 6/16/92

Well Number WCC-12S Well Depth 90.5 Well Diameter 4" Casing Material PVC

Sampling Crew JLM, , ,

Type of Pump Sub Sampler 2" SS bailer

Weather Conditions

Time	Water Level	Pump	Volume Pumped (gal)	Pumping Rate (gpm)	Sample Collection	Temp (°C)	pH	Cond (uS)	Clarity
6/15 0945	~~69.00~~ 66.51*								
1439			0						
1440			1	2.5		30	7.4	1239	Sl. cloudy
1442			5			26	7.5	1164	Sl. cloudy
1444			10			25	7.6	1132	Sl. cloudy
1446	~~69.00~~ 68.15*		15			25	7.4	1096	Sl. cloudy
1448			20			25	7.5	1080	Sl. cloudy
1450			25			25	7.5	1082	Sl. cloudy
1452			30			25	7.4	1079	Sl. cloudy
1454			35			25	7.5	1086	Sl. cloudy
1456			40			25	7.5	1084	Clear
1458			45			25	7.5	1080	Clear
			50						
1500			55			25	7.4	1078	Clear
1515					WCC12S-1				

3 Well Volumes = 45 gallons

90-67 = 23'

x .65
115
1380
14.95

14.95
3
45

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

* Corrected 6/23/92

GROUNDWATER SAMPLING RECORD

Facility Name: Douglas Aircraft Date: 6/15/92

Well Number: WCC-95 Well Depth: 90' Well Diameter: 4" Casing Material: ____

Sampling Crew: JM, ____, ____, ____

Type of Pump: Sub Sampler: SS bailer

Weather Conditions: Fair - breezy

Time	Water Level	Pump	Volume Pumped (gal)	Pumping Rate (gpm)	Sample Collection	Temp (°C)	pH	Cond (uS)	Clarity
0927	~~66.92~~ *								~~clear~~
1457	66.45		0						
1458			1	2.5		25	7.4	1386	clear
1500			5			23	7.5	1310	clear
1502			10			24	7.5	1045	clear
1504	~~68.3~~ 67.83 *		15			24	7.5	937	clear
1506			20			24	7.5	945	clear
1508			25			24	7.5	941	clear
1510			30			24	7.5	920	clear
1512	~~68.4~~ 67.95 *		35			24	7.5	928	clear
1514			40			24	7.5	936	clear
1516			45			24	7.5	929	clear
1518			50			24	7.5	928	clear
1520			55			24	7.5	923	clear
1521	~~68.8~~ * 68.33		Stop	pumping.					
1540					WCC95-1				

3 Well Volumes =

90 - 67 = 23'
.65
115
1380
14.95

15 gallons x3 = 45 gallons
x5 = 75 gallons

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

67-90 78
23 11

GROUNDWATER SAMPLING RECORD

Facility Name DAC Date 6/15/92

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

Sampling Crew JCM, ____, ____, ____

Type of Pump Sub Sampler SS bailer

Weather Conditions ____

Time	Water Level	Pump	Volume Pumped (gal)	Pumping Rate (gpm)	Sample Collection	Temp (°C)	pH	Cond (uS)	Clarity
0914	~~70.40~~ 70.00	~~*~~							
1255			1	2.5		27	7.4	784	clear
1302				10		25	7.6	760	clear
1303	~~74.6~~ 74.2	~~*~~		15		25	7.7	735	clear
1305				20		25	7.7	729	clear
1307				25		25	7.7	723	clear
1309				30		25	7.6	718	clear
1311	~~74.6~~ 74.2	~~*~~		35		25	7.6	716	clear
1313				40		25	7.7	710	clear
1315				45		24	7.6	705	clear
1317				50		24	7.7	701	clear
1319				55		25	7.7	698	clear
1321				60		25	7.7	699	clear
1323				65		25	7.9	694	clear
1325				70		25	7.7	694	clear
1327				75		25	7.7	698	clear
1329				80		25	7.7	692	clear
1410									

3 Well Volumes =

WCC-1D
140 - 70 = 70'
.65
350
420
45.50
3
136.5 gallons

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

*Corrected 6/23/92

GROUNDWATER SAMPLING RECORD

Facility Name DAC Date 6/15/92

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

Sampling Crew Jim, _____, _____, _____

Type of Pump Sub Sampler 2" SS bailer

Weather Conditions _____

Time	Water Level	Pump	Volume Pumped (gal)	Pumping Rate (gpm)	Sample Collection	Temp (°C)	pH	Cond (uS)	Clarity
1331			85			25	7.7	686	clear
1333			90			25	7.6	688	clear
1335			95			25	7.8	704	clear
1337			100			25	7.7	688	clear
1339			105			25	7.7	683	clear
1341			110			25	7.7	689	clear
1343	74.05		115			25	7.7	690	clear
1345	~~74.55~~ 74.05*		120			25	7.8	683	clear
1347			125			25	7.7	679	clear
1349			130			25	7.8	685	clear
1351	~~74.45~~		135			25	7.7	681	clear
1410	74.05*				WCC1D-1				

3 Well Volumes =

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 Douglas Aircraft Date 6/16/92

Well Number WCG3D Well Depth 140 Well Diameter 4" Casing Material PVC

Sampling Crew JLM, ____, ____, ____

Type of Pump Submerssible Sampler SS bailer

Weather Conditions Fair

Time	Water Level	Pump	Volume Pumped (gal)	Pumping Rate (gpm)	Sample Collection	Temp (°C)	pH	Cond (uS)	Clarity
6/15 0850	~~70.95~~ 70.57 *								
0812			0			24	7.8	677	clear
0814	~~87.64~~ ~~88.0~~ *		5	2.5		24	7.8	683	clear
0818			15			23	7.7	675	clear
0820			20			24	7.7	668	clear
0822			25			24	7.7	669	clear
0824			30			24	7.7	664	clear
0826	~~88.37~~		35			23	7.7	658	clear
0828	~~89.25~~ *		40			23	7.7	664	clear
0830			45			23	7.7	662	clear
0832			50			24	7.7	660	clear
0834	~~89.17~~		55			24	7.7	663	clear
0836	~~89.55~~ *		60			24	7.7	674	clear
0838			65			24	7.7	664	clear
0840			70			24	7.7	665	clear
0842	89.37		75			24	7.7	668	clear
0844	~~89.75~~ *		80			24	7.7	663	clear

3 Well Volumes = 129 gallons

140 − 74 = 66

66
.65
330
3960
429

43 × 3 = 129

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

* Corrected 6/23/92

GROUNDWATER SAMPLING RECORD

Facility Name Doug Date 6/16/92

Well Number WCC-3D Well Depth 140 Well Diameter 4" Casing Material

Sampling Crew JCM , , ,

Type of Pump Sub Sampler 2" SS bailer

Weather Conditions Fair

Time	Water Level	Pump	Volume Pumped (gal)	Pumping Rate (gpm)	Sample Collection	Temp (°C)	pH	Cond (uS)	Clarity
~~0846~~			85			24	7.7	673	clear
~~0848~~			90			24	7.7	664	clear
0850	~~89.49~~		95			24	7.7	660	clear
0852	~~89.87~~		100			24	7.8	659	clear
0854			105			24	7.8	664	clear
0856			110			24	7.8	664	clear
0858			115			24	7.7	671	clear
0900	89.7 ~~90.00~~		120			24	7.7	663	clear
0902			125			24	7.7	667	clear
0904			130			24	7.7	660	clear
0906	89.82 ~~90.20~~		135			24	~~7.7~~ ~~7.8~~	663	clear
0913	89.82 ~~90.22~~		145			24	7.7	665	clear
0917									
0935	~~91.6~~ ~~91.22~~								
0940					WCC30-1				

3 Well Volumes =

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 Douglas Aircraft Date 6/17/92

Well Number DACP1 Well Depth 91' Well Diameter 4" Casing Material PVC

Sampling Crew JLM, _____, _____, _____

Type of Pump Submerssible pump. Sampler 2" SS bailer

Weather Conditions Fair, breezy

Time	Water Level	Pump	Volume Pumped (gal)	Pumping Rate (gpm)	Sample Collection	Temp (°C)	pH	Cond (uS)	Clarity
6/17 1031	~~70.90~~ 70.30 *								
~~1439~~ 1439			1	2.5		27	7.4	1590	sl cloudy 3 ppm
1441			6			25	7.3	1600	sl. cloudy
1443			11			25	7.4	1570	sl. cloudy
1454			15			25	7.5	1500	sl. cloudy
1457			20	5		25	7.4	1580	sl. cloudy
1458	~~89.00~~ 88.3 *		25			25	7.4	1590	sl. cloudy green color
1501	~~72.5~~ recovery 3 minutes								
1503	72.18 *		30	5		25	7.5	1610	sl. cloudy
1504		dewatered		reduce	rate.				
1507	~~75.0~~ 74.68 *		30	2.5		25	7.5	1590	sl. cloudy
1509			35			25	7.5	1570	sl. cloudy
1511	~~86.4~~ 86.08 *		40			25	7.5	1620	sl. cloudy
1513	~~88.00~~ 87.68 *		45			25	7.5	1590	sl cloudy
1515			dewatered						
1530					DACP1-1				

3 Well Volumes = 39 gallons 91 - 71 = 20 × .65 / 13' × 3

10

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

* Corrected 6/23/92

APPENDIX C

CHAIN-OF-CUSTODY RECORDS

SAMPLE CHAIN-OF-CUSTODY ANALYSIS REQUEST

PACIFIC ENVIRONMENTAL LABORATORY
674 HARRISON STREET
SAN FRANCISCO, CA 94107
415 243 2580 FAX 415 243 9390

POSSIBLE HAZARDS: Volatile Organics

Date: 6/16/92
Source of Samples: Douglas Aircraft
Sampler Name: JLM
Company: KJ
Phone: (714) 661-1577
Project No.: 921010.00

Report To: Thom Deane
Company: KJ
Address: Irvine
Phone: (714) 261-1577

Send unused sample to:

Lab Destination: PEL

Carrier/Way Bill: Fed Ex

LAB ID No.	Client ID No.	COLLECTION Date	COLLECTION Time	Type	Depth	Composite	Note 4	Turn-around time	Note 6 Lab Disposal	8240 (524.2)	524.2 (524.2)							COMMENTS/CONDITIONS: (Container type, container number, etc.)
	WCC3D-1	6/16	0945	W			HCL	14 day		X								3 Vials
	WCC11S-1	6/16	1050	W			HCL			X								3 Vials
	WCC10S-1	6/16	1210	W			HCL			X								3 vials
	DW-061692	6/16	—	W			HCL			X								3 vials
	WCC2S-1	6/16	1350	W			HCL			X								3 vials
	WCC12S-1	6/16	1515	W			HCL			X								3 vials
	FB-061692	6/16	1510	W			HCL				X							1 vial

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

SAMPLE RELINQUISHED BY:

Print Name	Signature	Company	Date	Time
Joseph Murray	Joseph P Murray		6/16	16:45

SAMPLE RECEIVED BY:

Print Name	Signature	Company	Date	Time
Fed Ex				

Logged in at PEL by:

BOE-C6-0072240

SAMPLE CHAIN-OF-CUSTODY ANALYSIS REQUEST

PACIFIC ENVIRONMENTAL LABORATORY
674 HARRISON STREET
SAN FRANCISCO CA 94107
415 243 2580 FAX 415 243 9190

POSSIBLE HAZARDS: Volatile Organics

Date: 6/16/92
Source of Samples: Douglas Aircraft
Sampler Name: JCM
Company: KIT
Phone: (714) 661-1577
Project No.: 921010.00

Report To: Thomas Deane
Company: KIT
Address: Irvine
Phone: (714) 661-1577

Send unused sample to:

Lab Destination: PEL

Carrier/Way Bill: Fedex

LAB ID No.	Client ID No.	COLLECTION Date	COLLECTION Time	Type	Depth	Composite	Note 4	Turn-around time	Note 6 Lab Disposal	8240	624	COMMENTS/CONDITIONS: (Container type, container number, etc.)
	WCC1D-1	6/15	1410	W			HCL	14day		X		3 Vials
	WCC9S-1	6/15	1540	W			HCL			X		3 Vials
	DW-061592	6/15	—	W			HCL			X		3 Vials
	FB-061592	6/15	1530	W			HCL				X	1 Vial
	WCC5S-1	6/15	1645	W			HCL			X		3 Vials
	WCC3D-1	6/16	940	W			HCL			X		3 Vials
	TB-061692	6/16		W			HCL				X	1 Vial Prepped

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

SAMPLE RELINQUISHED BY:

Print Name	Signature	Company	Date	Time
Joseph C. Murphy	Joseph C Murphy	KIT	6/16/92	1645

SAMPLE RECEIVED BY:

Print Name	Signature	Company	Date	Time
Fed Ex				

Logged in at PEL by:

BOE-C6-0072241

SAMPLE CHAIN-OF-CUSTODY ANALYSIS REQUEST

PACIFIC ENVIRONMENTAL LABORATORY
674 HARRISON STREET
SAN FRANCISCO CA 94107
415 243 2580 FAX 415 243 9190

POSSIBLE HAZARDS: Volatile Organics

Date: 6-17-92
Source of Samples: Douglas Aircraft
Sampler Name: JCM
Company: KIJ Irvine
Phone: (714) 261-1577
Project No.: 924010.00

Report To: Thom Deane
Company: KIJ
Address: Irvine
Phone: (714) 261-1577

Send unused sample to:

Lab Destination: PEL

Carrier/Way Bill: FedEx

LAB ID No.	Client ID No.	COLLECTION Date	COLLECTION Time	Type	Depth	Composite	Note 4	Turn-around time	Note 6 Lab Disposal	ANALYSES REQUESTED: 8240 (EPA)								COMMENTS/CONDITIONS: (Container type, container number, etc.)
	WCC15-1	6/17	1255	W			HCL	14day		X								3 Vials
	WCC35-1	6/17	1355	W			HCL			X								3 Vials
	DACP1-1	6/17	1530	W			HCL			X								3 Vials

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

SAMPLE RELINQUISHED BY:

Print Name	Signature	Company	Date	Time
Joseph C. Montoya	Joseph C. Montoya	KIJ	6/18	1035

SAMPLE RECEIVED BY:

Print Name	Signature	Company	Date	Time
		FedEx	6/18	1035

Logged in at PEL by:

BOE-C6-0072242

SAMPLE CHAIN-OF-CUSTODY ANALYSIS REQUEST

PACIFIC ENVIRONMENTAL LABORATORY
674 HARRISON STREET
SAN FRANCISCO, CA 94107
415 243 2580 FAX 415 243 9490

POSSIBLE HAZARDS: Volatile Organics

Date: 6-17-92
Source of Samples: Douglas Aircraft
Sampler Name: JCM
Company: KJ
Phone: (214) 261-1577
Project No. 924010.00

Report To: Thom Deane
Company: KJ
Address: Irvine
Phone: (214) 261-1577

Send unused sample to:

Lab Destination: PEL
Carrier/Way Bill: Fed Ex

LAB ID No.	Client ID No.	COLLECTION Date	COLLECTION Time	Type	Depth	Composite	Note 4	Turn-around time	Note 6 Lab Disposal	8240 (EPA)	624 (EPA)							COMMENTS/CONDITIONS: (Container type, container number, etc.)
	WCC7S-1	6/17	0800	W			HCL	14day		X								3vials
	TB-061792	6/17	0800	W							X							1vial Rec'd 6/18/92 - 1100
	WCC4S-1	6/17	0855	W			HCL			X								3vials
	WCC6S-1	6/17	1005	W			HCL			X								3vials
	WCC8S-1	6/17	1055	W			HCL			X								3vials
	FB-061792	6/17	1140	W			HCL				X							1vial
	DW-061792	6/17	—	W			HCL			X								3vials

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

SAMPLE RELINQUISHED BY:

Print Name	Signature	Company	Date	Time
Joseph L. Martin	Joseph Martin		6/18	1035

SAMPLE RECEIVED BY:

Print Name	Signature	Company	Date	Time
		Fed Ex	6/18	10[illegible]

Logged in at PEL by:

BOE-C6-0072243