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NAS KEY WEST
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TECHNICAL MEMORANDUM GROUNDWATER EVALUATION OF JET ENGINE TEST CELL
NAS KEY WEST FL
10/3/1995
BECHTEL ENVIRONMENTAL INC

0055

DEPARTMENT OF THE NAVY
SOUTHERN DIVISION

TECHNICAL MEMORANDUM:

GROUNDWATER EVALUATION
JET ENGINE TEST CELL
NAS KEY WEST, FLORIDA

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"copy" – PAK 6/27/96
text & data

DEPARTMENT OF THE NAVY

SOUTHERN DIVISION

TECHNICAL MEMORANDUM:

GROUNDWATER EVALUATION, JET ENGINE TEST CELL, NAS KEY WEST, FLORIDA

0	10/3/95	ISSUED FOR USE	JSN	KMS	REH	DMM
REV	DATE		BY	EGS	PE	PM

ORIGIN	Groundwater Evaluation, Jet Engine Test Cell, NAS Key West, Florida	JOB NO.	
		MEMORANDUM	REV.
		TM-321-001	0
		PAGE 1 OF 1	

TECHNICAL MEMORANDUM: GROUNDWATER EVALUATION, JET ENGINE TEST CELL, NAS KEY WEST

1.0 INTRODUCTION

An assessment of groundwater at the Jet Engine Test Cell (JETC) at Naval Air Station (NAS) Key West was conducted by Bechtel Environmental, Inc. (BEI) between June 26 and September 8, 1995. The purpose of the groundwater assessment was to complete characterization of the extent of groundwater contamination and to perform aquifer tests to support evaluation of a groundwater pump and treat system. The assessment consisted of groundwater sampling and a pump test. Details on the work that was performed are presented in BEI (1995a)

2.0 RESULTS OF GROUNDWATER SAMPLING

Groundwater samples were collected from existing wells between June 27 and 29, 1995 and were analyzed for volatile organic compounds (VOCs), total naphthalenes, and total recoverable petroleum hydrocarbons (TRPHs). During this time each well was checked for floating product. Two of the wells contained product; MW-4 contained 0.18 ft and MW-5 contained 1.89 ft. Groundwater samples were not collected from MW-4 and MW-5. 10 temporary well points were installed and sampled on July 25 and 26, 1995. A groundwater sample was collected from each well point and was analyzed for VOCs and total naphthalenes. The locations of the monitoring wells and the temporary well points are shown in Figure 1. The results of sample analyses along with regulatory criteria for groundwater are presented in Table 1. Groundwater underlying JETC is classified as G-III (not suitable for drinking), however G-III criteria do not exist for most of the contaminants of concern, therefore additional criteria have been provided for comparison.

The data presented in Table 1 indicate that MW-15 and MW-24 are the only wells which contained contaminants (1,2-cis-DCE and 1,2-trans-DCE) above any criteria (primary drinling water standards). Other contaminants including TCE, naphthalene, and benzene are elevated above detection limits, but are below criteria. TRPH is also elevated in several wells. The extent of these compounds in groundwater is shown in Figures 2 through 4. Chlorinated compounds are present in groundwater on the eastern side of the site and the naphthalene and TRPH plumes are present in groundwater underlying the central and western parts of the site. ABB (1994) also identified Naphthalene, TRPH, and chlorinated hydrocarbon plumes in groundwater at JETC. ABB (1994) indicates that the product found in MW-4 and MW-5 (see above) is probably jet fuel. The estimated extent of product is shown in Figure 4.

Groundwater removed during the pump test was treated using a carbon filtration system. Samples of the water from the pump test were collected before and after treatment. The results of the analyses are summarized in Table 2. The analyses indicate that there was no contamination in groundwater at any time during the pump test.

3.0 RESULTS OF PUMP TEST

The pump test was performed with a Grundfos Readiflo 2 pump. Data was recorded on a Hermit 2000 and manual readings were taken for verification. Groundwater from the test was treated in a carbon filtration unit and then discharged on the ground. Locations of observation wells used to monitor the pump test are shown in Figure 5 and geologic logs and well construction diagrams are presented in Appendix A.

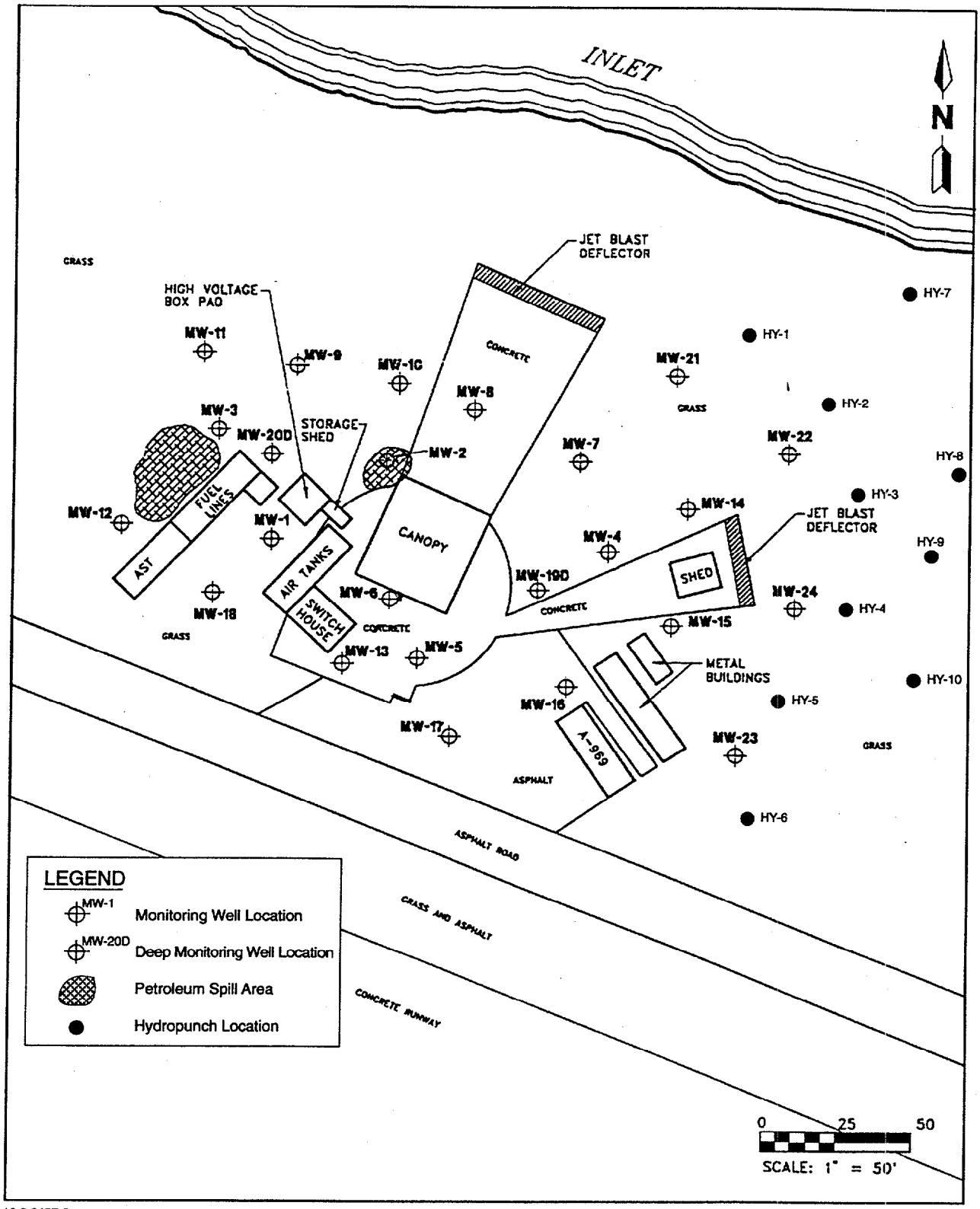

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FIGURE 1
Monitoring Well and Proposed Hydropunch Locations

Table 1. Results of Analyses of Groundwater Samples from JETC, Contaminants of Concern

Well ID	Sample ID	Results of Analysis (ug/l)								
		Solvents						BTEX		
		1,2-cis-DCE	1,2-trans-DCE	TCE	Tetrachlorethylene	Naphthalene (Total)	TRPH	Benzene	Toluene	Carbon Disulfide
Criteria	MCL-p	70	100	3	-	-	-	1	1000	-
Criteria	MCL-s	-	-	-	-	-	-	-	40	-
Criteria	G-II	-	-	-	-	100	5000	1	-	-
Criteria	G-III	-	-	-	-	-	5000	200	-	-
Criteria	WQC	-	-	80.7	-	-	-	71.28	-	-
MW1	KW02193	2.00u	2.00u	2.00u	2.00u	2.00u	1580	2.00u	2.00u	12.5
MW2	KW02180	50.0u	50.0u	50.0u	50.0u	66.1	1000u	50.0u	50.0u	250u
MW2 (dup.)	KW02181	50.0u	50.0u	50.0u	50.0u	69	[1]	50.0u	50.0u	250u
MW3	KW02196	2.00u	2.00u	2.00u	2.00u	2.00u	1120	2.00u	2.00u	10.0u
MW6	KW02175	2.00u	2.00u	2.00u	2.00u	NA	1000u	2.00u	2.00u	10.0u
MW7	KW02174	2.00u	2.00u	2.00u	2.00u	NA	1000u	2.00u	2.00u	10.0u
MW8	KW02179	50.0u	50.0u	50.0u	50.0u	2.00u	1000u	50.0u	50.0u	250u
MW9	KW02186	2.00u	2.00u	2.00u	2.00u	2.00u	1000u	2.00u	2.00u	10.0u
MW10	KW02183	2.00u	2.00u	2.00u	2.00u	18.8	1410	2.00u	2.00u	10.0u
MW11	KW02197	2.00u	2.00u	2.00u	2.00u	2.00u	1000u	2.00u	2.00u	10.0u
MW12	KW02195	2.00u	2.00u	2.00u	2.00u	2.00u	1000u	2.00u	2.00u	10.0u
MW13	KW02182	2.00u	2.00u	2.00u	2.00u	2.00u	1050	2.00u	2.00u	10.0u
MW14	KW02171	18.4	56.2	2.00u	2.00u	2.00u	1000u	2.00u	2.00u	10.0u
MW15	KW02169	**196**	**495**	2.00u	2.00u	2.00u	1000u	2.00u	2.00u	10.0u
MW16	KW02177	50.0u	50.0u	50.0u	50.0u	10.8	1000u	50.0u	50.0u	250u
MW17	KW02184	2.00u	2.00u	2.00u	2.00u	19.1	1920	2.00u	2.00u	10.0u
MW18	KW02191	50.0u	50.0u	50.0u	50.0u	2.00u	1000u	50.0u	50.0u	250u
MW19D	KW02190	50.0u	50.0u	50.0u	50.0u	3.42	1240	50.0u	50.0u	250u
MW20D	KW02192	2.00u	2.00u	2.00u	2.00u	2.00u	1700	2.00u	2.00u	10.0u
MW21	KW02173	51.3	6.82	2.00u	2.00u	2.00u	1000u	2.00u	2.00u	10.0u
MW22	KW02172	13	19.2	2.41	2.00u	2.00u	1000u	2.00u	2.00u	10.0u

Well ID	Sample ID	Results of Analysis (ug/l)								
		Solvents						BTEX		
		1,2-cis-DCE	1,2-trans-DCE	TCE	Tetrachlorethylene	Naphthalene (Total)	TRPH	Benzene	Toluene	Carbon Disulfide
Criteria	MCL-p	70	100	3	-	-	-	1	1000	-
Criteria	MCL-s	-	-	-	-	-	-	-	40	-
Criteria	G-II	-	-	-	-	100	5000	1	-	-
Criteria	G-III	-	-	-	-	-	5000	200	-	-
Criteria	WQC	-	-	80.7	-	-	-	71.28	-	-
MW23	KW02168	13.2	2.00u	2.00u	2.00u	NA	1000u	55.2	0.618j	10.0u
MW24	KW02170	**1560**	**2420**	2.00u	2.00u	2.00u	1000u	7	2.00 u	10.0u
HY01	KW02205	56.7	4.58	2.00u	2.00u	2.00u	NA	2.00u	2.00u	10.0u
HY02	KW02204	2.00u	2.00u	2.00u	2.00u	2.00u	NA	2.00u	2.00u	10.0u
HY03	KW02203	2.00u	2.00u	2.00u	2.00u	91.1	NA	2.00u	0.171j	10.0u
HY04(dup.)	KW02201	2.00u	2.00u	2.00u	2.00u	2.00u	NA	2.00u	0.209j	10.0u
HY04	KW02200	2.00u	2.00u	2.00u	2.00u	2.00u	NA	2.00u	0.179j	10.0u
HY05	KW02199	2.00u	2.00u	2.00u	2.00u	2.00u	NA	2.00u	2.00u	10.0u
HY06	KW02198	2.00u	2.00u	2.00u	0.0681j	2.00u	NA	2.00u	0.061j	10.0u
HY07	KW02209	5u	5u	5u	5u	0.50u	NA	5u	5u	5u
HY08	KW02208	5u	5u	5u	5u	0.50u	NA	5u	5u	5u
HY09	KW02207	5u	5u	5u	5u	0.50u	NA	5u	5u	5u
HY10	KW02206	5u	5u	5u	5u	0.50u	NA	5u	5u	5u

Notes: Values in bold are above listed criteria.
MW4 and MW5 contained product and were not sampled.
NA = Contaminant not analyzed for.
u = not detected.
j = below instrument detection limits.
HY01-HY10 were not sampled for TRPH.
1 KW02181 (MW4 - Dup.) was not analyzed for TRPH, the sample was inadvertently destroyed during shipping.
2 HY07-HY10 were analyzed by Inchscape Testing Services, remaining samples analyzed by General Engineering Laboratories.

MCL-p = primary drinking water standards (17-550.310, FAC)
MCL-s = secondary drinking water standards (17-550.320, FAC)
G-II = petroleum contaminated site cleanup levels for G-II groundwater (17-770.730, FAC)
G-III = petroleum contaminated site no further action levels for G-III groundwater (FDER, 10/90)
WQC = surface water quality criteria for G-III surface water (17-302.530, FAC)

Table 2. Results of Analysis of Samples from Pump Discharge

Location[1]	Sample ID	Date	Results of Analysis (ug/l)							
			Solvents						BTEX	
			1,2-cis-DCE	1,2-trans-DCE	TCE	Tetrachlorethylene	Naphthalene (Total)	Carbon Disulfide	Benzene	Toluene
Pretreatment	KW02211	7/31/95	5u	5u	5u	5u	0.50u	5u	5u	12
Post-treatment	KW02212	7/31/95	5u	5u	5u	5u	0.50u	6	5u	5u
Pretreatment	KW02213	8/3/95	5u	5u	5u	5u	0.50u	5u	5u	5u
Post-treatment	KW02214	8/3/95	5u	5u	5u	5u	0.50u	5u	5u	5u
Pretreatment	KW02217	8/31/95	1u	1u	1u	1u	0.9j	1u	1u	1u
Post-treatment	KW02218	8/31/95	1u	1u	1u	1u	1u	1u	1u	1u

1 Location relative to treatment plant.
u = not detected.
j = below instrument detection limits.
Wastewater samples not analyzed for TRPH.

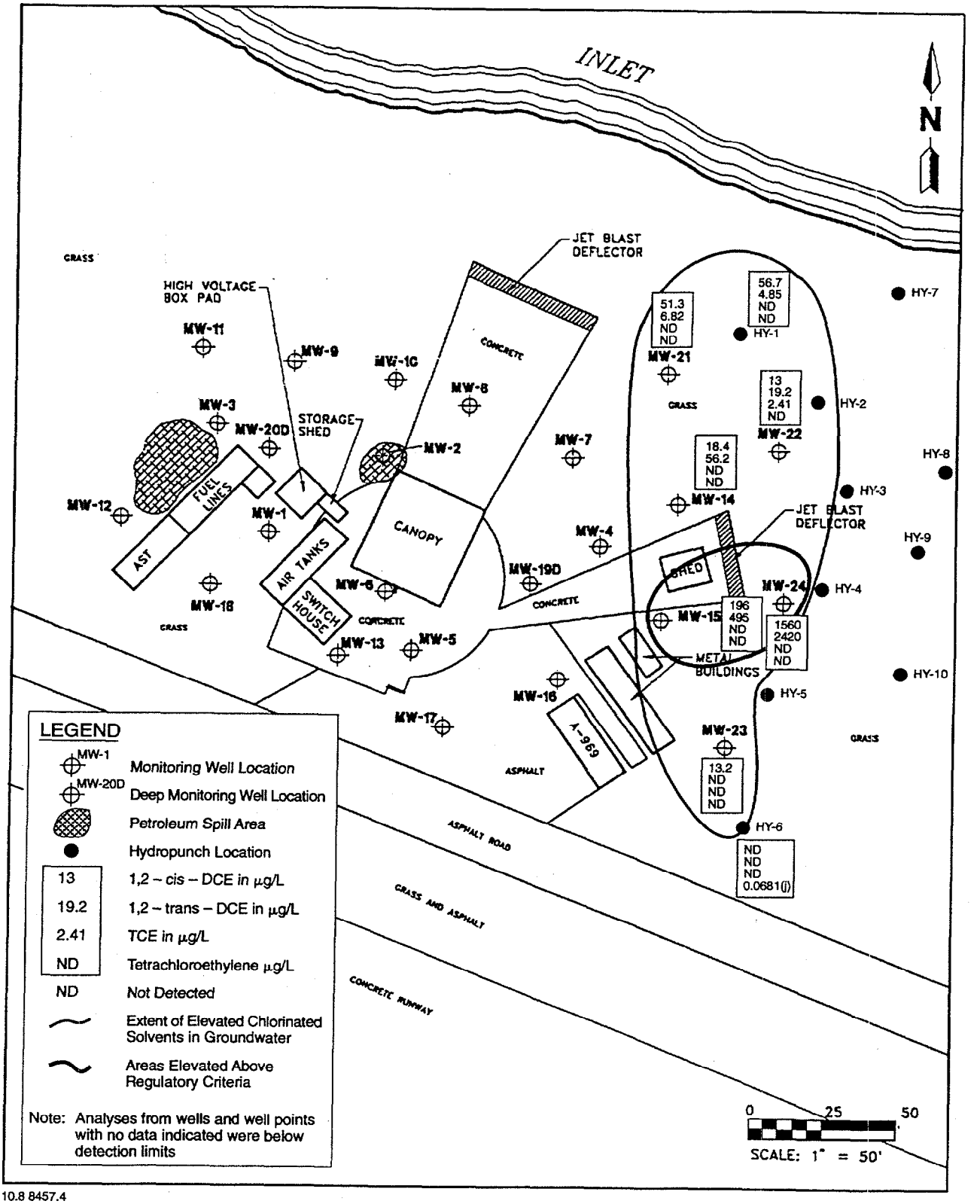

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FIGURE 2
Extent of Chlorinated Solvents in Groundwater

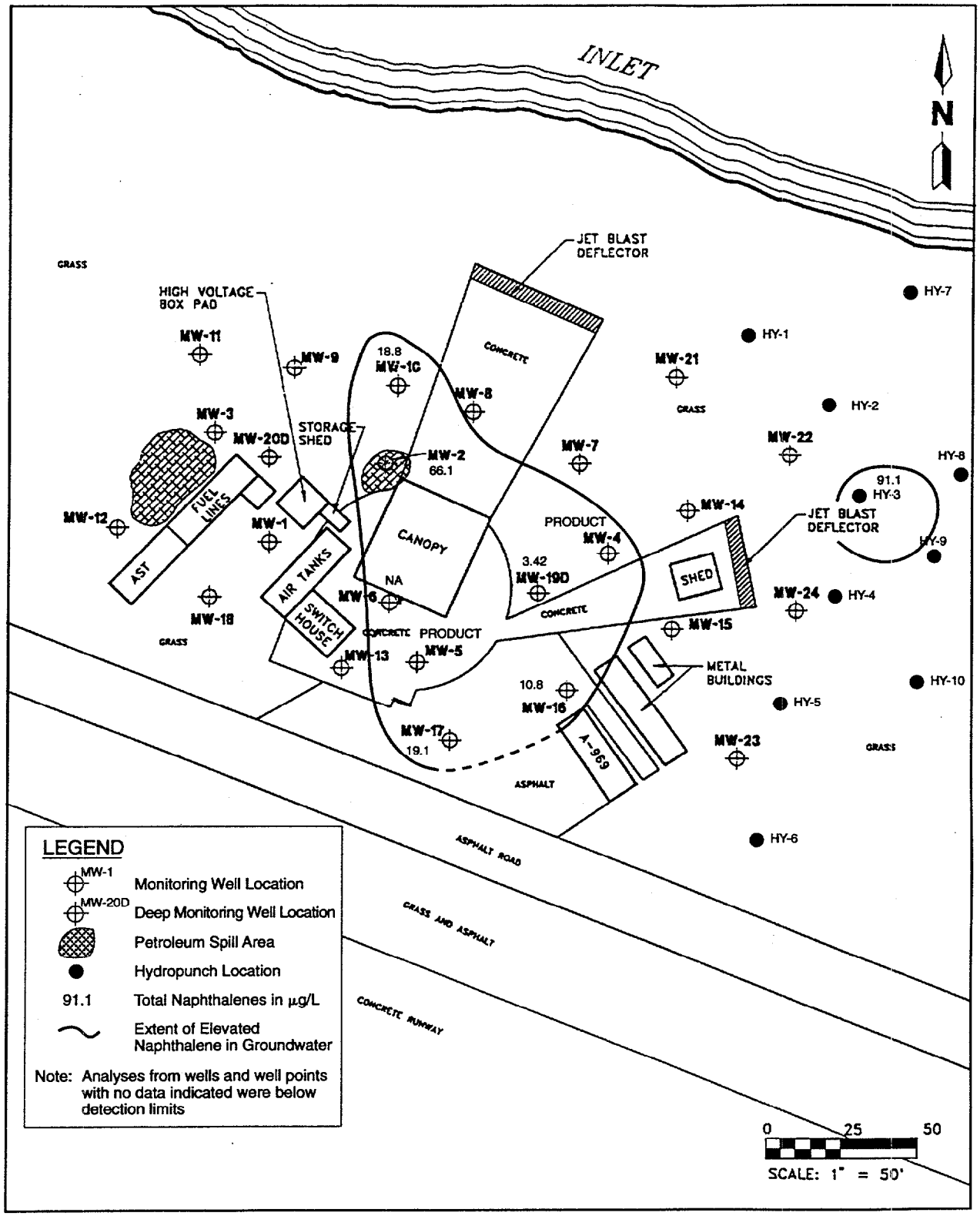

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FIGURE 3
Extent of Elevated Naphthalene in Groundwater

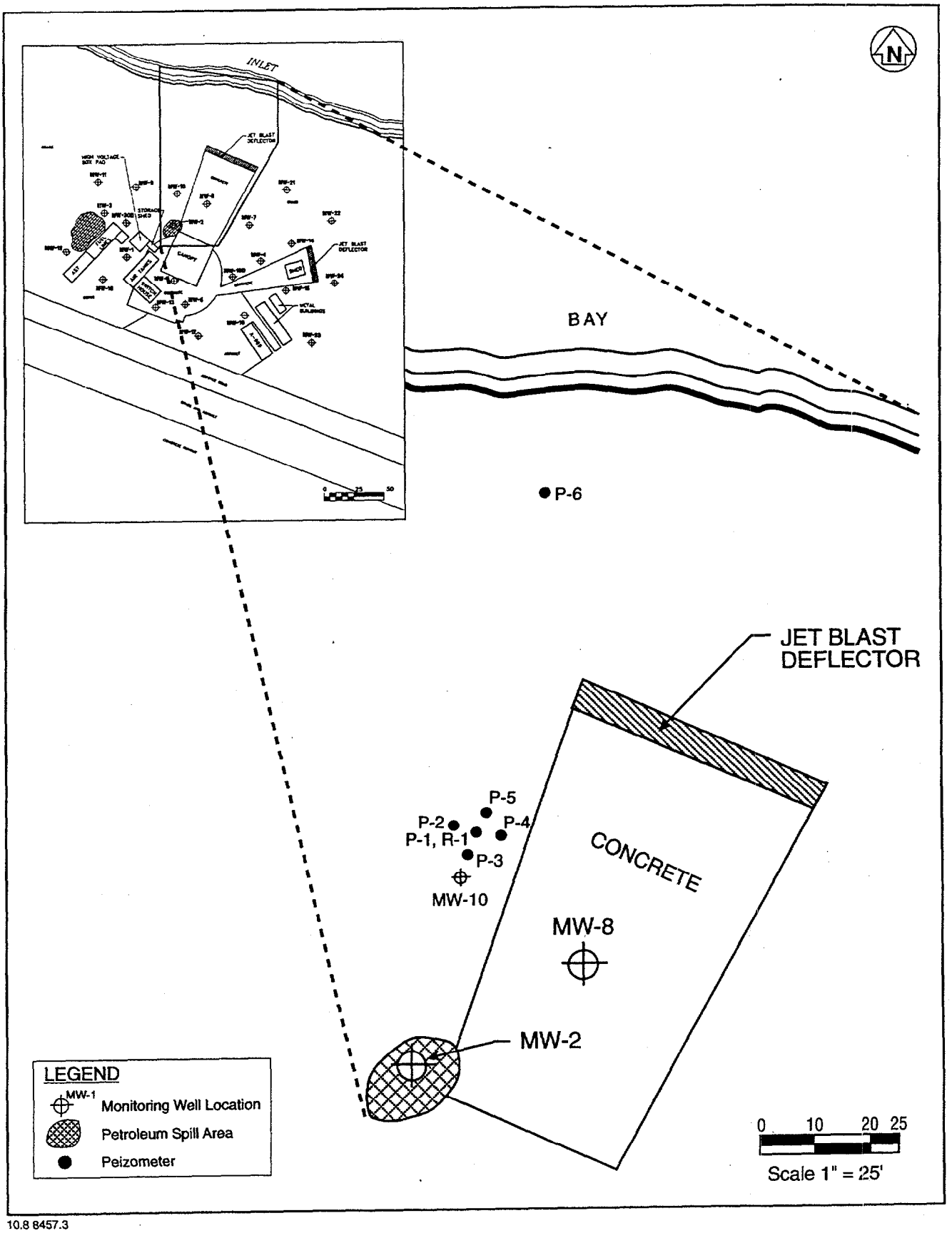

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FIGURE 5
Location of Recovery Well and Temporary Piezometer

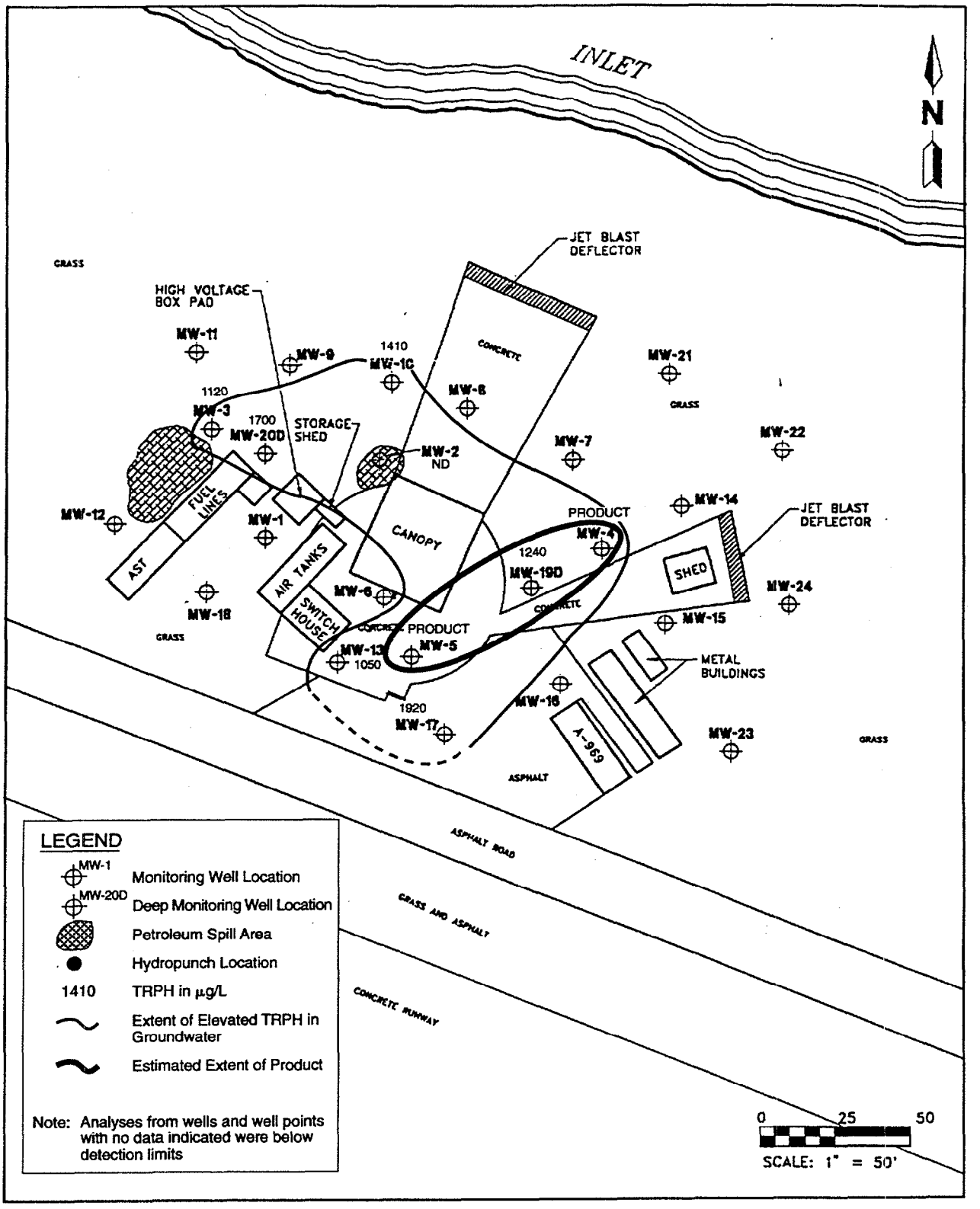

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FIGURE 4
Extent of TRPH in Groundwater

Figure 6 is a water table map at JETC showing water levels collected on September 6, 1995. The water table is essentially flat with a slight slope towards the inlet (see Figure 6). The water level in MW-18 is anomalously high and was not included in contouring of the water table map. The gradient across the site ranges from approximately 0.0017 to 0.0027 ft/ft.

Prior to the start of the pump test, a tidal study and a step test were performed. An initial tidal study was performed between July 26th through 28th with water level readings collected every hour. A second tidal study incorporating barometric data ran from July 28th through 31st. The tidal studies indicated tidal fluctuations of approximately 0.5 ft from high tide to low tide in observation well P-6. Additional data was collected from observation wells P-1 through P-5, and MW-10 after the water table had recovered from the September 6 - 7 pump test. Tidal fluctuations in these observation wells were approximately 0.2 ft.

The step test was performed on July 31st at pumping rates of 0.5 gpm, 0.6 gpm, 0.8 gpm, 1.2 gpm, and 1.5 gpm for 1 hour each. The step test indicated that the optimum pumping rate was in excess of 1.5 gpm. After the step test was completed, the groundwater system was allowed to recover for 36 hours. During the recovery period all equipment was removed from the wells at the request of the Navy.

Two pump and recovery tests were conducted between August 2 and 4, 1995 with pumping at 1.25 and 1.5 gpm. Due to a data logger malfunction, the tests were discontinued prior to completion. A third pump test was started on September 6, 1995 at a pumping rate of 2.0 gpm. The test was run for 24 hours and was followed by a 20 hour recovery test. The results of the test are presented in BEI (1995b). All of the drawdown in the pumping well and the observation wells occurred in the first 20 minutes of the test after which the water table stabilized. As a result, only the first 60 minutes of the test were needed to refine the data. This eliminated the need to correct the data for pressure and tidal influences. The results of the pump test are presented in Table 3. The storage coefficient and specific yield are also presented in Table 3, but the numbers are not representative of actual aquifer conditions. Data from the recovery test was not evaluated because the conditions required to refine the data were not met. Data from the recovery test is discussed in more detail in BEI (1995b).

BEI (1995b) calculated a hydraulic conductivity of 9.346×10^{-3} ft/min from the transmissivity listed in Table 3. Using Darcy's law, and the hydraulic gradients listed above, this yields a Darcy flow velocity of 8.4 to 13.3 ft/yr. Assuming a porosity of 0.2, this yields a linear groundwater flow velocity of 42 to 66.5 ft/yr.

4.0 CONCLUSIONS

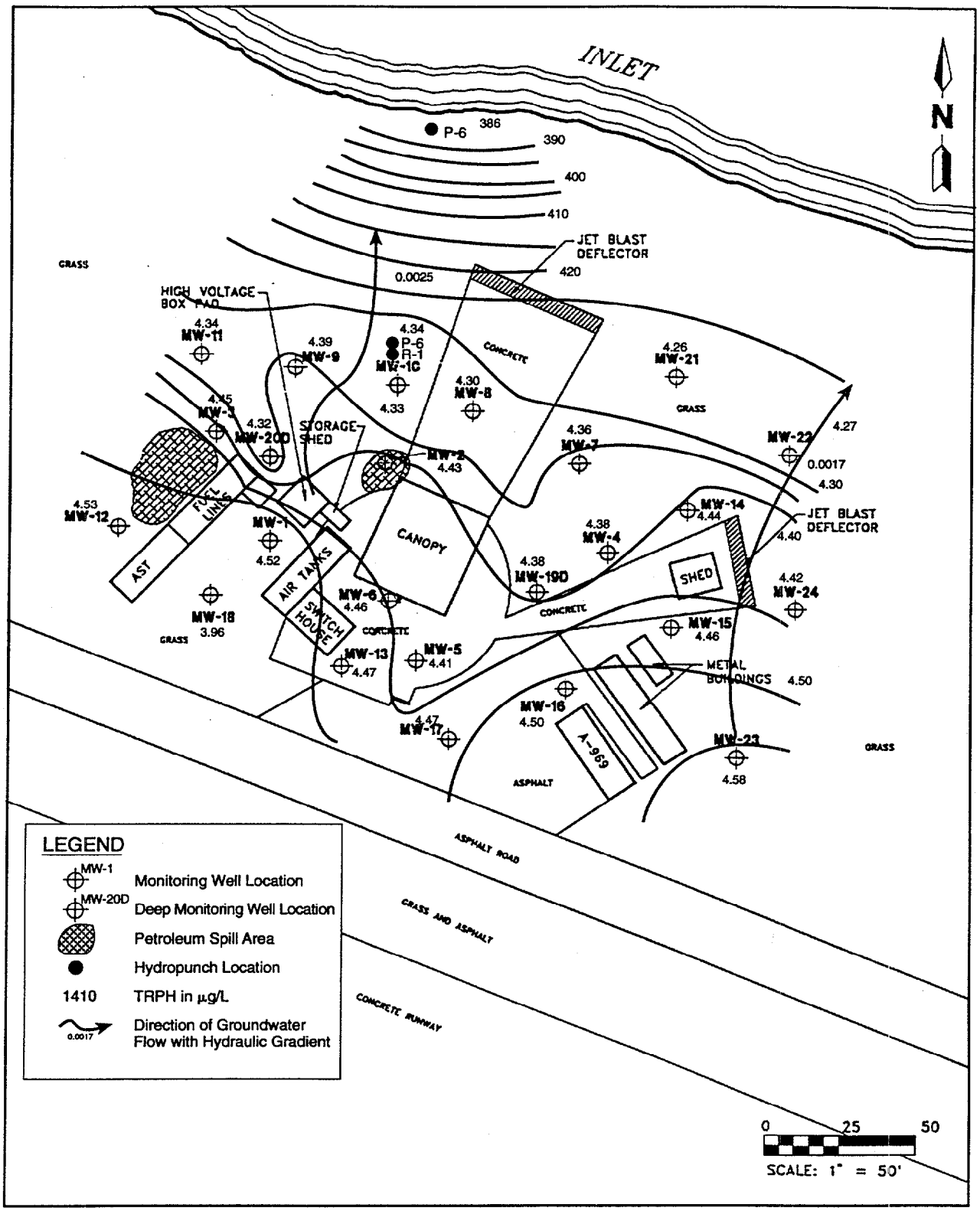
Evaluation of the extent of contamination is complete. Two wells (MW-4, MW-5) contained product, and two wells (MW-15, MW-24) had total DCE contamination at levels above regulatory criteria. There are several other contaminants present in groundwater including TCE, tetrachlorethylene, Naphthalene, and TRPH, however levels are below regulatory guidelines. The extent of these compounds in groundwater is shown in Figures 2 through 4.

The results of the pump test indicate that water levels in the aquifer underlying JETC react rapidly to pumping and then stabilize after a short amount of time. Aquifer transmissivity values are approximately 9.4×10^{-3} ft/min and groundwater flow velocities are approximately 50 ft/yr. Groundwater flow is towards the inlet and tidal fluctuations decrease from 0.5 ft at the shore to 0.2 ft closer to the location of the pump test.

Based on this investigation, the conditions at JETC are favorable for the installation and successful operation of a pump and treat system.

Table 3 Summary of Pump Test Results

Well	Neuman			Theim-Dupuit
	Transmissivity (ft^2/min)	Storage Coefficient	Specific Yield	Transmissivity (ft^2/min)
P-2	0.06235	4.213×10^{-4}	0.001	0.088
P-3	0.08235	3.301×10^{-4}	0.001	0.072
P-4	0.1768	1×10^{-12}	0.001	0.084
P-5	0.07366	1.269×10^{-4}	0.001	0.047
MW-10	0.07305	2.442×10^{-5}	0.001	0.061
Mean	0.09364	1.805×10^{-4}	0.001	0.070



10.8 8092.8

FIGURE 6
Water Table Map, September 6, 1995

5.0 REFERENCES

5,1 ABB Environmental Services, Inc. (ABB), 1994. Contamination Assessment Report, Jet Engine Test Cell, Building A969, Naval Air Station, Key West, Florida. June.

5.1 Bechtel Environmental, Inc. (BEI), 1995a. Instruction Guide for Groundwater Evaluation at the Jet Engine Test Cell at NAS Key West, Florida. 321-IG-001 Rev. 0.

5.2 Bechtel Environmental, Inc. (BEI), 1995b. Refinement of Jet Engine Test Cell Pump Test Data. Calculation 321-G-002.

APPENDIX A

Geologic Drill Logs

and

Well Construction Diagrams

GEOLOGIC DRILL LOG

PROJECT	JOB NO.	SHEET NO.	HOLE NO.
NAVAL AIR STATION KEY WEST	22567-321	1 OF 1	R-1

SITE	COORDINATES	ANGLE FROM HORIZ	BEARING
NAS Key West - JETC		Vertical	------

BEGUN	COMPLETED	DRILLER	DRILL MAKE AND MODEL	SIZE	OVERBURDEN	ROCK (FT.)	TOTAL DEPTH
7-26-95	7-26-95	Env. Drilling Inc.	Mobile B-57	12"	10.0	1.0	11.3

CORE RECOVERY (FT./%)	CORE BOXES	SAMPLES	EL. TOP CASING	GROUND EL.	DEPTH/EL. GROUND WATER	DEPTH/EL. TOP OF ROCK
/				4.00	2.3/1.7 2.3 /	10.00/-6.20

SAMPLE HAMMER WEIGHT/FALL	CASING LEFT IN HOLE: DIA./LENGTH	LOGGED BY:
140# / 30"	11 ft 4" PVC	J.Novick

SAMP TYPE AND DIAM.	SAMP. ADV. LEN CORE	SAMPLE REC. CORE REC.	SAMPLE BLOWS % CORE	ANALYSES PERFORMED		ELEV.	DEPTH	GRAPHICS	SAMPLE	DESCRIPTION AND CLASSIFICATION	NOTES ON: WATER LEVELS, WATER RETURN, CHARACTER OF DRILLING, ETC.
SS 2"	2.00	1.80				4.00				0.0 - 10.0 ft. Silty Sand. Very pale orange (10YR8/2). Sand grains are fine to medium grained, subangular to subrounded limestone fragments set in a tightly packed clay and silt matrix. Contains occassional coarse grained limestone fragments up to 1" in size. Homogeneous. Moderately sorted. Hard, dry, friable.	Borehole advanced using 12" O.D. Hollow Stem Auger, combined with 2" Split Spoon Sampler.
SS 2"	2.00	2.00								@ 1.8 ft. Peat layer, dusky yellowish brown (10YR2/2). 0.2 ft thick. @ 2.0 ft. Wet.	
							5				Survey not completed yet, coordinates not available.
											Well nested with P-1.
						-5.90	10			10.0 - 11.0 ft. Oolitic Limestone. Very Pale Orange (10YR8/2). Fine to coarse oolites. Oolites are well formed and weakly bonded by calcareous cement. Oolite size increases with depth. Massive, homogeneous, moderately friable, saturated.	Bedrock described from cuttings.
						-7.00				Bottom of hole at 11 ft, 4" monitoring well installed on 7/26/95.	
											Soil description is by visual examination of split spoon samples, classification by Unified Soil Classification System (USCS) and color description from GSA Rock Color Chart.

SS = SPLIT SPOON; NQ = CORE BARREL; HX = HAND AUGER; O = OTHER

SITE: NAS Key West - JETC

HOLE NO. R-1

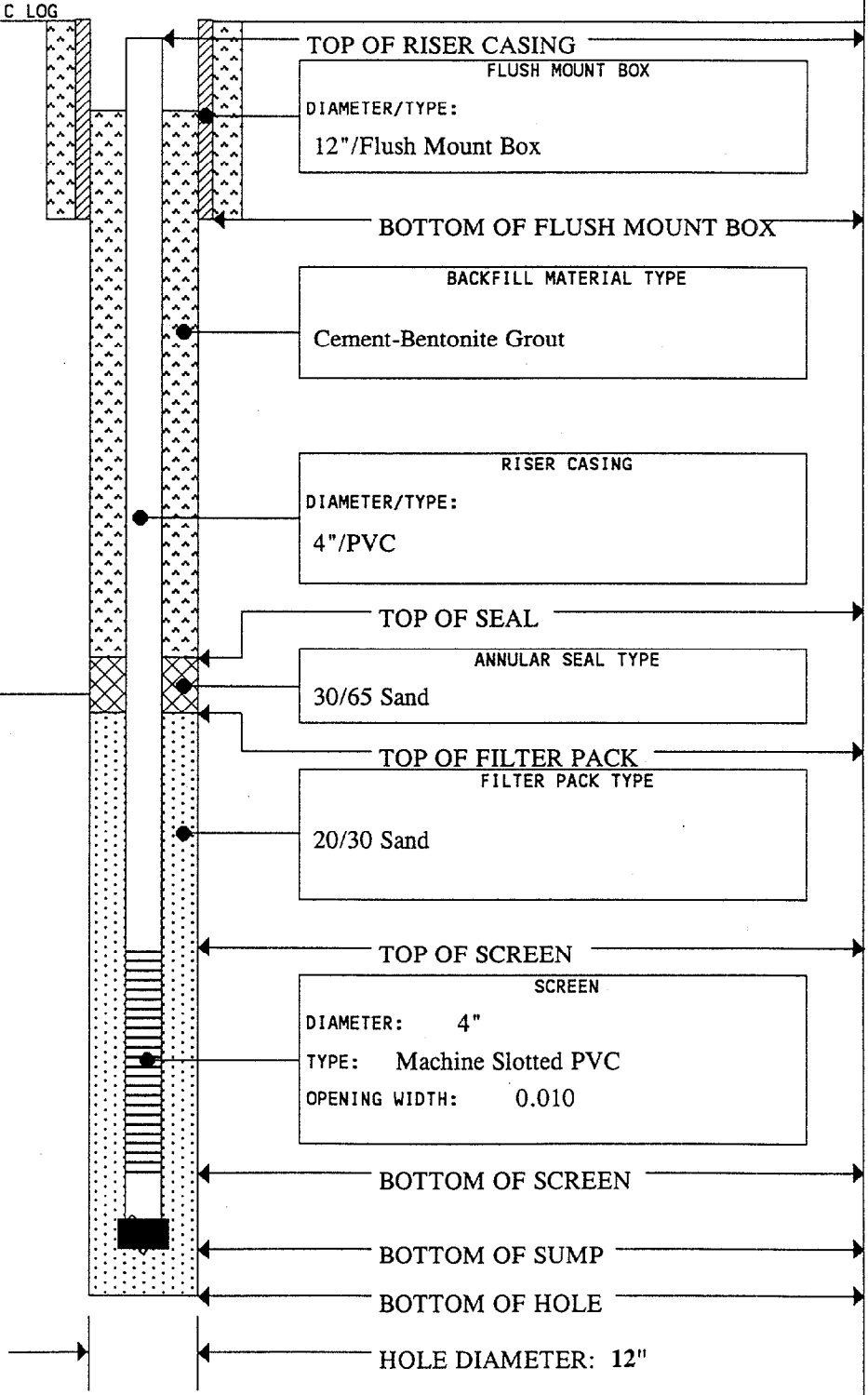
MONITORING WELL

PROJECT	WELL NO.
NAVAL AIR STATION KEY WEST	R-1

JOB NO.	SITE	COORDINATES
22567-321	NAS Key West - JETC	* Well not surveyed

BEGUN	COMPLETED	PREPARED BY	REFERENCE POINT FOR MEASUREMENTS
7/26/95	7/26/95	J.Novick	Ground Surface

GENERALIZED GEOLOGIC LOG



	DEPTH (FT)	ELEV. (FTMSL)
	0.0	4.0
TOP OF RISER CASING	0.0	3.8
BOTTOM OF FLUSH MOUNT BOX	0.7	3.1
TOP OF SEAL	0.8	3.0
TOP OF FILTER PACK	1.0	2.8
TOP OF SCREEN	1.0	2.8
BOTTOM OF SCREEN	11.0	-7.2
BOTTOM OF SUMP	11.3	-7.2
BOTTOM OF HOLE	11.3	-7.3

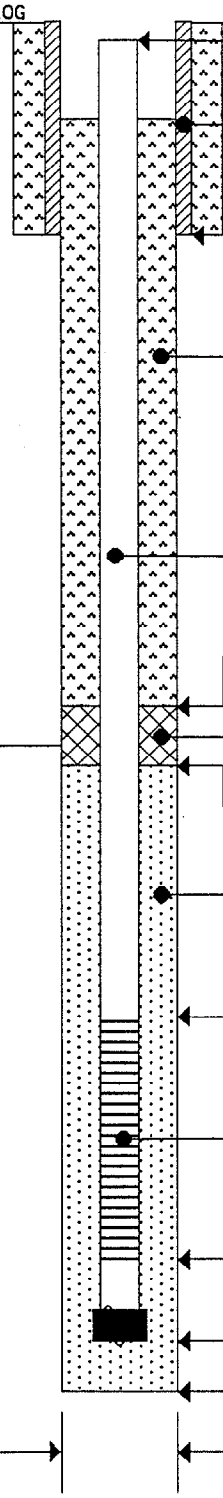
MONITORING WELL

PROJECT	WELL NO.
NAVAL AIR STATION KEY WEST	P-1

JOB NO.	SITE	COORDINATES
22567-321	NAS Key West - JETC	* Well not surveyed

BEGUN	COMPLETED	PREPARED BY	REFERENCE POINT FOR MEASUREMENTS
7/26/95	7/26/95	J. Novick	Ground Surface

GENERALIZED GEOLOGIC LOG



	DEPTH (FT)	ELEV. (FTMSL)
TOP OF RISER CASING	0.0	3.8
	0.0	3.8
BOTTOM OF FLUSH MOUNT BOX	0.7	3.1
TOP OF SEAL	0.8	3.0
TOP OF FILTER PACK	1.0	2.8
TOP OF SCREEN	1.0	2.8
BOTTOM OF SCREEN	11.0	-7.2
BOTTOM OF SUMP	11.3	-7.2
BOTTOM OF HOLE	11.3	-7.5
HOLE DIAMETER:		

FLUSH MOUNT BOX
DIAMETER/TYPE:
12"/Flush Mount Box

BACKFILL MATERIAL TYPE
Cement-Bentonite Grout

RISER CASING
DIAMETER/TYPE:
1"/PVC

ANNULAR SEAL TYPE
30/65 Sand

FILTER PACK TYPE
20/30 Sand

SCREEN
DIAMETER: 1"
TYPE: Machine Slotted PVC
OPENING WIDTH: 0.010

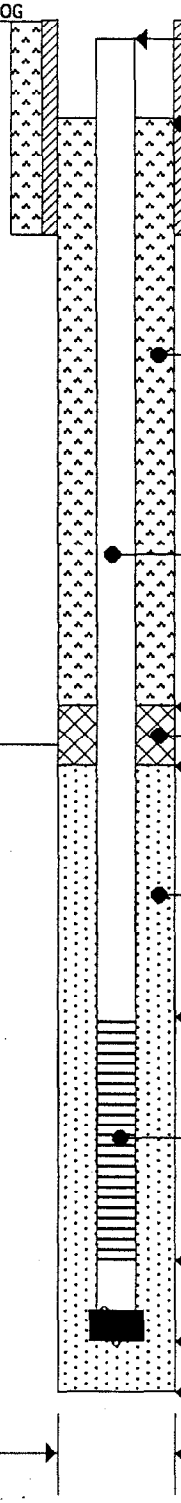
MONITORING WELL

PROJECT	WELL NO.
NAVAL AIR STATION KEY WEST	P-3

JOB NO.	SITE	COORDINATES
22567-321	NAS Key West - JETC	* Well not surveyed

BEGUN	COMPLETED	PREPARED BY	REFERENCE POINT FOR MEASUREMENTS
7/26/95	7/26/95	J. Novick	Ground Suface

GENERALIZED GEOLOGIC LOG



	DEPTH (FT)	ELEV. (FTMSL)
TOP OF RISER CASING	0.0	4.0
	0.0	4.0
BOTTOM OF FLUSH MOUNT BOX	0.7	3.3
TOP OF SEAL		
TOP OF FILTER PACK	1.0	3.0
TOP OF SCREEN	1.0	3.0
BOTTOM OF SCREEN	11.0	-7.0
BOTTOM OF SUMP	11.0	-7.0
BOTTOM OF HOLE	11.0	-7.0
HOLE DIAMETER:		

FLUSH MOUNT BOX
DIAMETER/TYPE:
8"/Fluch Mount Box

BACKFILL MATERIAL TYPE
Silica Sand

RISER CASING
DIAMETER/TYPE:
1"/PVC

ANNULAR SEAL TYPE
None

FILTER PACK TYPE
20/30 Silica Sand

SCREEN
DIAMETER: 1"
TYPE: Machine Slotted PVC
OPENING WIDTH: 0.010

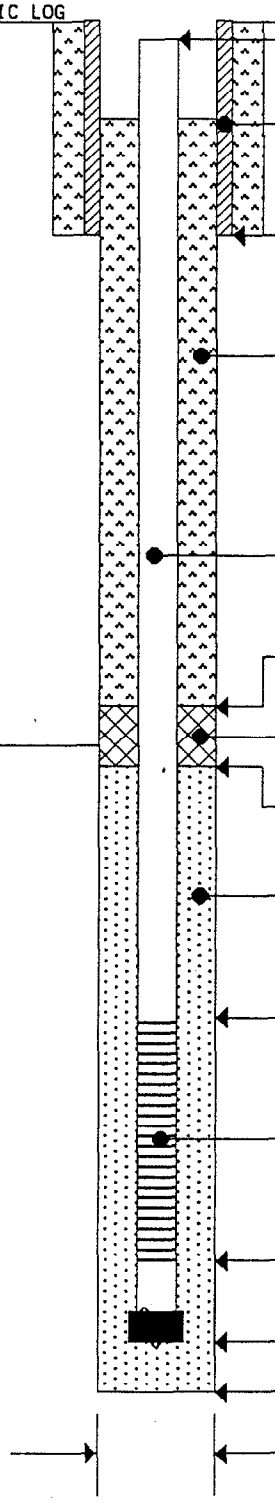
MONITORING WELL

PROJECT	WELL NO.
NAVAL AIR STATION KEY WEST	P-2

JOB NO.	SITE	COORDINATES
22567-321	NAS Key West - JETC	* Well not surveyed

BEGUN	COMPLETED	PREPARED BY	REFERENCE POINT FOR MEASUREMENTS
7/26/95	7/26/95	J. Novick	Ground Surface

GENERALIZED GEOLOGIC LOG



	DEPTH (FT)	ELEV. (FTMSL)
TOP OF RISER CASING	0.0	3.9
	0.0	3.9
BOTTOM OF FLUSH MOUNT BOX	0.7	3.2
TOP OF SEAL		
TOP OF FILTER PACK	1.0	2.9
TOP OF SCREEN	1.0	2.9
BOTTOM OF SCREEN	11.0	-7.1
BOTTOM OF SUMP	11.0	-7.1
BOTTOM OF HOLE	11.0	-7.2
HOLE DIAMETER:		

FLUSH MOUNT BOX
DIAMETER/TYPE:
8"/Flush Mount Box

BACKFILL MATERIAL TYPE
Silica Sand

RISER CASING
DIAMETER/TYPE:
1"/PVC

ANNULAR SEAL TYPE
None

FILTER PACK TYPE
20/30 Silica Sand

SCREEN
DIAMETER: 1"
TYPE: Machine Slotted PVC
OPENING WIDTH: 0.010

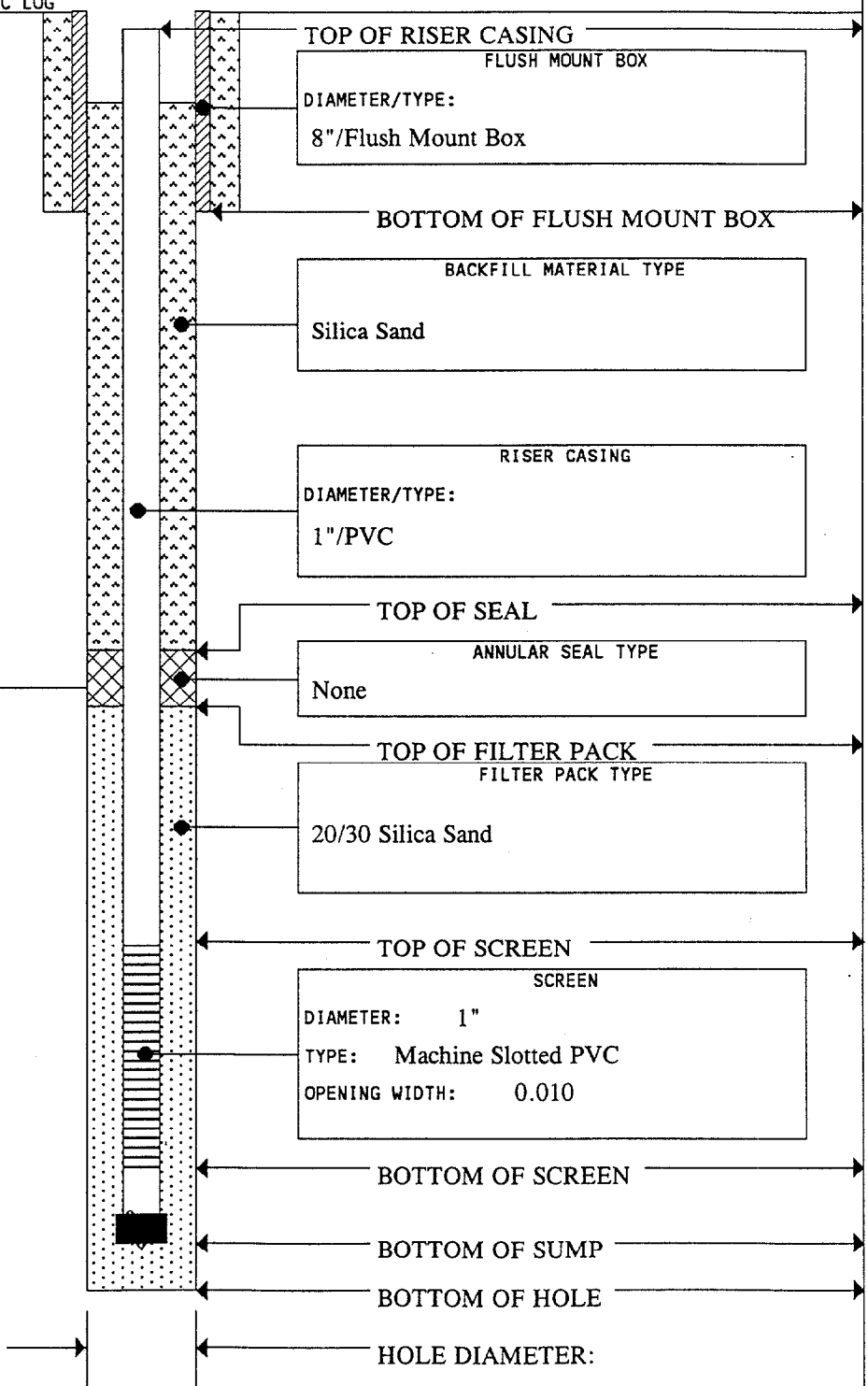
MONITORING WELL

PROJECT	WELL NO.
NAVAL AIR STATION KEY WEST	P-4

JOB NO.	SITE	COORDINATES
22567-321	NAS Key West - JETC	* Well not surveyed

BEGUN	COMPLETED	PREPARED BY	REFERENCE POINT FOR MEASUREMENTS
7/26/95	7/26/95	J. Novick	Ground Surface

GENERALIZED GEOLOGIC LOG



	DEPTH (FT)	ELEV. (FTMSL)
	0.0	4.0
TOP OF RISER CASING	0.0	4.0
BOTTOM OF FLUSH MOUNT BOX	0.7	3.3
TOP OF FILTER PACK	1.0	3.0
TOP OF SCREEN	1.0	3.0
BOTTOM OF SCREEN	11.0	-7.0
BOTTOM OF SUMP	11.0	-7.0
BOTTOM OF HOLE	11.0	-7.1

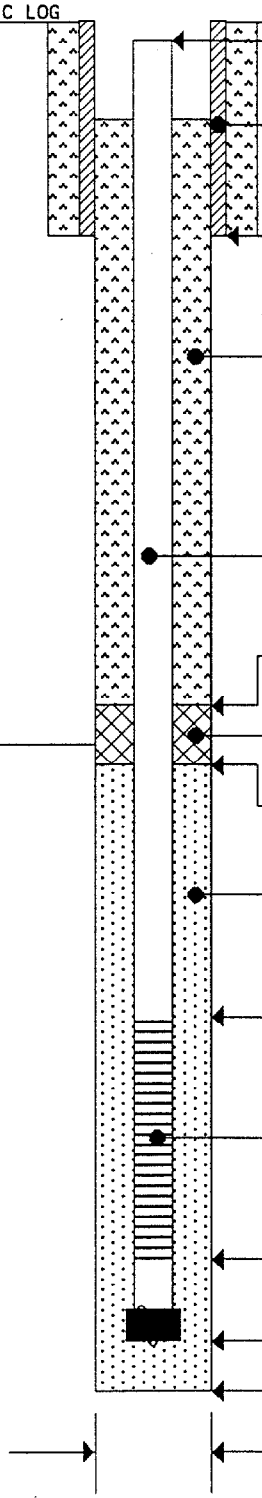
MONITORING WELL

PROJECT	WELL NO.
NAVAL AIR STATION KEY WEST	P-5

JOB NO.	SITE	COORDINATES
22567-321	NAS Key West - JETC	* Well not surveyed

BEGUN	COMPLETED	PREPARED BY	REFERENCE POINT FOR MEASUREMENTS
7/25/95	7/25/95	J. Novick	Ground Surface

GENERALIZED GEOLOGIC LOG



	DEPTH (FT)	ELEV. (FTMSL)
	0.0	3.8
TOP OF RISER CASING	0.0	3.8
BOTTOM OF FLUSH MOUNT BOX	0.7	3.1
TOP OF SEAL		
TOP OF FILTER PACK	1.0	2.8
TOP OF SCREEN	1.0	2.8
BOTTOM OF SCREEN	11.0	-7.2
BOTTOM OF SUMP	11.0	-7.5
BOTTOM OF HOLE	11.0	-7.2
HOLE DIAMETER:		

FLUSH MOUNT BOX
DIAMETER/TYPE:
8"/Flush Mount Box

BACKFILL MATERIAL TYPE
Silica Sand

RISER CASING
DIAMETER/TYPE:
1"/PVC

ANNULAR SEAL TYPE
None

FILTER PACK TYPE
20'/30 Silica Sand

SCREEN
DIAMETER: 1"
TYPE: Machine Slotted PVC
OPENING WIDTH: 0.010

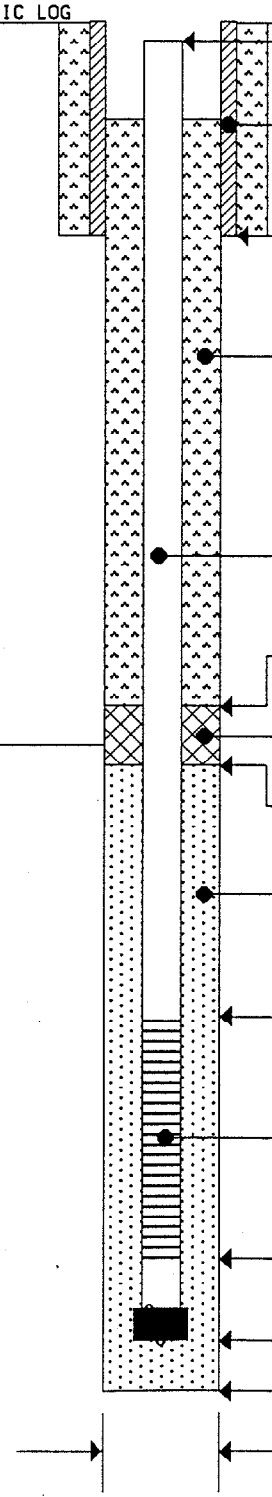
MONITORING WELL

PROJECT	WELL NO.
NAVAL AIR STATION KEY WEST	P-6

JOB NO.	SITE	COORDINATES
22567-321	NAS Key West - JETC	* Well not surveyed

BEGUN	COMPLETED	PREPARED BY	REFERENCE POINT FOR MEASUREMENTS
7/25/95	7/25/95	J. Novick	Ground Surface

GENERALIZED GEOLOGIC LOG



	DEPTH (FT)	ELEV. (FTMSL)
TOP OF RISER CASING	0.0	3.1
	0.0	3.1
BOTTOM OF FLUSH MOUNT BOX	0.7	2.4
TOP OF SEAL		
TOP OF FILTER PACK	1.0	2.1
TOP OF SCREEN	1.0	2.1
BOTTOM OF SCREEN	11.0	-7.9
BOTTOM OF SUMP	11.0	-7.9
BOTTOM OF HOLE	11.0	-7.9
HOLE DIAMETER:		

FLUSH MOUNT BOX
DIAMETER/TYPE:
8"/Flush Mount Box

BACKFILL MATERIAL TYPE
Silica Sand

RISER CASING
DIAMETER/TYPE:
1"/PVC

ANNULAR SEAL TYPE
None

FILTER PACK TYPE
20/30 Silica Sand

SCREEN
DIAMETER: 1"
TYPE: Machine Slotted PVC
OPENING WIDTH: 0.010

APPENDIX B

Analytical Data

Sample ID	Station ID
2168	MW23
2169	MW15
2170	MW24
2171	MW14
2172	MW21
2173	MW22
2174	MW7
2175	MW6
2176	Purge Water Drum
2177	MW16
2178	Equipment Rinse Blank
2179	MW8
2180	MW2
2181	MW2 (dup)
2182	MW13
2183	MW10
2184	MW17
2185	Equipment Rinse Blank
2186	MW9
2187	Trip Blank
2188	Trip Blank
2189	Trip Blank
2190	MW19D
2191	MW18
2192	MW20D
2193	MW1
2194	Trip Blank
2195	MW12
2196	MW3
2197	MW11
2198	HY06
2199	HY05
2200	HY04
2201	HY04 (dup)
2202	Equipment Rinse Blank
2203	HY03
2204	HY02
2205	HY01
2206	HY10
2207	HY9
2208	HY8
2209	HY7
2210	Trip Blank
2211	Treatment System, Pretreat, 7/31
2212	Treatment System, Post-treat, 7/31
2213	Treatment System, Pretreat, 8/3
2214	Treatment System, Post-treat, 8/3
2215	Trip Blank
2216	Trip Blank
2217	Treatment System, Pretreat, 8/31
2218	Treatment System, Post-treat, 8/31

Qualifiers

Results Qualifiers of the Certificate of Analysis follow the specifications from the technical specification of the contract and are as follows:

Section	Explanation	Location
Inorganics		
*	Duplicate analysis is not within control limit	C of A, Form 1, and EDD
+	Correlation Coefficient for the MSA is < 0.995	C of A, Form 2, EDD
B	Reported value is >DL and < RL	C of A, Form 1, and EDD
M	Duplicate Injection precision not met	C of A, Form 1, EDD
S	Reported Method was determined by MSA	C of A, Form 1, EDD
U	Parameter analyzed but < DL	C of A, Form 1 and EDD
W	Post-Dig spike for GFAA out of control limit (85% - 115%) and sample absorb is <50% spike absb	C of A, EDD, Form 5 part 2
X	Other Flag	C of A, Form 1, and EDD
**	Control Sample outside of acceptance limit	QC Summary Report

Definitions of Terms

DL - Detection limit of the instrument used for the analysis, this value is less than the reporting limit

RL - Reporting limit the lab uses for a specific compound.

TIC - Tentitively Identified compound.

Qualifiers
Page 2

Section	Explanation	Location
Organics		
A	TIC is suspected Aldol Condensation Product	C of A, Form 1, and EDD
C	PEST/PCB ID has been confirmed by GC/MS	C of A, Form 1, and EDD
D	Value derived by dilution	C of A, Form 1, and EDD
E	Out of Calibration Range	C of A, Form 1, and EDD
J	Value is non-zero detect and <RL	C of A, Form 1, and EDD
N	Presumptive evidence to make a tentative identification of the analyte	C of A, Form 1, and EDD
NJ	Analyte has been tentatively identified and the associated numerical value is estimated	C of A, Form 1, and EDD
P	PEST/PCB target analyte with > 25% difference between the two GC columns	C of A, EDD, Form 1, Form 10
U	Compound analyzed but not detected	C of A, Form 1, and EDD
X	Other Flag	C of A, Form 1, and EDD
B	Compound was also detected in the method blank	C of A, Form 1, and EDD
**	Control Sample outside of acceptance limit	QC Summary Report

All surrogate recoveries and acceptance ranges are reported at the bottom of the certificate. Any recoveries falling outside the acceptance range will be flagged with a **.

Note: TCLP extracts are routinely diluted 1:10 for the initial analysis as specified in GEL Standard Operating Procedures. These dilutions leave the reporting levels well below the regulatory Maximum Contamination Levels for TCLP.

GENERAL ENGINEERING LABORATORIES

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Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	
VA	00151	
WI	99968779	

CERTIFICATE OF ANALYSIS

Client: Bechtel
PO Box 350
Oak Ridge, Tennessee 37831-0350
Contact: Ms. Lori Keller
Project Description: Key West/KW

cc: BECH00195 Report Date: July 17, 1995

Sample ID : KW02168 GWT

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst Date	Time	Batch	M	C
Tetrachloroethylene	U	2.00	1.00	2.00	ug/l	1.0					
Toluene	J	0.618	1.00	2.00	ug/l	1.0	RMB 07/10/95	1917	68766	1	1
Trichloroethylene	U	2.00	1.00	2.00	ug/l	1.0					
Vinyl Acetate	U	10.0	5.00	10.0	ug/l	1.0					
Vinyl chloride	U	2.00	1.00	2.00	ug/l	1.0					
Xylenes (TOTAL)	U	20.0	10.0	20.0	ug/l	1.0					
cis-1,3-Dichloropropylene	U	2.00	1.00	2.00	ug/l	1.0					
trans-1,3-Dichloropropylene	U	2.00	1.00	2.00	ug/l	1.0					
neral Chemistry											
otal Rec. Petro. Hydrocarbons	U	1000	1000	1000	ug/l	1.0	MCM 07/03/95	1430	68454	2	2

Surrogate Recovery	Test	Percent%	Acceptable Limits
1,2-Dichloroethane-d4	TCL VOLATILES	105.	(81.0 - 114.)
Bromofluorobenzene	TCL VOLATILES	98.4	(86.6 - 109.)
Toluene-d8	TCL VOLATILES	46.8*	(89.6 - 107.)

M = Method	Method-Description
M 1	EPA 8240 extended
M 2	EPA 418.1

C = Container	Lab. Container ID	Reference ID
C 1	9506550-04.03	KW0216805
C 2	9506550-04.05	KW0216801

GENERAL ENGINEERING LABORATORIES

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Laboratory Certifications

STATE	CHL	EPI
FL	E87156/87294	E87472/87451
NC	233	
SC	10120	10582
TN	02934	
VA	00151	
WI	99988779	

CERTIFICATE OF ANALYSIS

Client: Bechtel
PO Box 350
Oak Ridge, Tennessee 37831-0350
Contact: Ms. Lori Keller
Project Description: Key West/KW

cc: BECH00195 Report Date: July 17, 1995

Sample ID : KW02168 GWT
Lab ID : 9506550-04
Matrix : GroundH2O
Date Collected : 06/27/95
Date Received : 06/28/95
Priority : Routine
Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M	C
Volatile Organics												
Target Compound List Volatiles - 35 items												
1,1,1-Trichloroethane	U	2.00	1.00	2.00	ug/l	1.0	RMB	07/10/95	1917	68766	1	1
1,1,2,2-Tetrachloroethane	U	10.0	5.00	10.0	ug/l	1.0						
1,1,2-Trichloroethane	U	2.00	1.00	2.00	ug/l	1.0						
1,1-Dichloroethane	U	2.00	1.00	2.00	ug/l	1.0						
1,1-Dichloroethylene	U	2.00	1.00	2.00	ug/l	1.0						
1,2-Dichloroethane	U	2.00	1.00	2.00	ug/l	1.0						
1,2-Dichloropropane	U	2.00	1.00	2.00	ug/l	1.0						
1,2-cis-Dichloroethylene		13.2	2.00	2.00	ug/l	1.0						
1,2-trans-Dichloroethylene	U	2.00	1.00	2.00	ug/l	1.0						
2-Butanone	U	10.0	5.00	10.0	ug/l	1.0						
2-Hexanone	U	10.0	5.00	10.0	ug/l	1.0						
4-Methyl-2-pentanone	U	10.0	5.00	10.0	ug/l	1.0						
Acetone	U	10.0	5.00	10.0	ug/l	1.0						
Benzene		55.2	1.00	2.00	ug/l	1.0						
Bromoform	U	2.00	2.00	2.00	ug/l	1.0						
Carbon Disulfide	U	10.0	5.00	10.0	ug/l	1.0						
Carbon Tetrachloride	U	2.00	1.00	2.00	ug/l	1.0						
Chlorobenzene	U	2.00	1.00	2.00	ug/l	1.0						
Chlorodibromomethane	U	2.00	1.00	2.00	ug/l	1.0						
Chloroethane	U	2.00	1.00	2.00	ug/l	1.0						
Chloroform	U	2.00	1.00	2.00	ug/l	1.0						
Dichlorobromomethane	U	2.00	1.00	2.00	ug/l	1.0						
Ethylbenzene	U	2.00	1.00	2.00	ug/l	1.0						
Methyl Bromide	U	2.00	1.00	2.00	ug/l	1.0						
Methyl Chloride	U	2.00	1.00	2.00	ug/l	1.0						
Methylene Chloride	U	5.00	1.00	5.00	ug/l	1.0						
Styrene	U	10.0	5.00	10.0	ug/l	1.0						

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Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	
VA	00151	
WI	99858779	

CERTIFICATE OF ANALYSIS

Client: Bechtel
PO Box 350
Oak Ridge, Tennessee 37831-0350
Contact: Ms. Lori Keller
Project Description: Key West/KW

cc: BECH00195 Report Date: July 17, 1995

Sample ID : 9506550-04 DL1 KW02168
Lab ID : 9506550-10
Matrix : GroundH2O
Date Collected : 06/27/95
Date Received : 06/28/95
Priority : Routine
Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M	C
Volatile Organics												
Target Compound List Volatiles - 35 items												
1,1,1-Trichloroethane	U	200	100	200	ug/l	100	RMB	07/11/95	2110	68766	1	N
1,1,2,2-Tetrachloroethane	U	1000	500	1000	ug/l	100						
1,1,2-Trichloroethane	U	200	100	200	ug/l	100						
1,1-Dichloroethane	U	200	100	200	ug/l	100						
1,1-Dichloroethylene	U	200	100	200	ug/l	100						
1,2-Dichloroethane	U	200	100	200	ug/l	100						
1,2-Dichloropropane	U	200	100	200	ug/l	100						
1,2-cis-Dichloroethylene	U	200	200	200	ug/l	100						
1,2-trans-Dichloroethylene	U	200	100	200	ug/l	100						
2-Butanone	U	1000	500	1000	ug/l	100						
2-Hexanone	U	1000	500	1000	ug/l	100						
4-Methyl-2-pentanone	U	1000	500	1000	ug/l	100						
Acetone	U	1000	500	1000	ug/l	100						
Benzene	U	200	100	200	ug/l	100						
Bromoform	U	200	200	200	ug/l	100						
Carbon Disulfide	U	1000	500	1000	ug/l	100						
Carbon Tetrachloride	U	200	100	200	ug/l	100						
Chlorobenzene	U	200	100	200	ug/l	100						
Chlorodibromomethane	U	200	100	200	ug/l	100						
Chloroethane	U	200	100	200	ug/l	100						
Chloroform	U	200	100	200	ug/l	100						
Dichlorobromomethane	U	200	100	200	ug/l	100						
Ethylbenzene	U	200	100	200	ug/l	100						
Methyl Bromide	U	200	100	200	ug/l	100						
Methyl Chloride	U	200	100	200	ug/l	100						
Methylene Chloride	JBD	92.2	100	200	ug/l	100						
Styrene	U	1000	500	1000	ug/l	100						

GENERAL ENGINEERING LABORATORIES

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Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87451
NC	233	
SC	10120	10582
TN	02934	
VA	00151	
WI	99988779	

CERTIFICATE OF ANALYSIS

Client: Bechtel
PO Box 350
Oak Ridge, Tennessee 37831-0350
Contact: Ms. Lori Keller
Project Description: Key West/KW

co: BECH00195 Report Date: July 17, 1995

Sample ID : 9506550-04 DL1 KW02168

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M	C
Tetrachloroethylene	U	200	100	200	ug/l	100						
Toluene	U	200	100	200	ug/l	100	RMB	07/11/95	2110	68766	1	N
Trichloroethylene	U	200	100	200	ug/l	100						
Vinyl Acetate	U	1000	500	1000	ug/l	100						
Vinyl chloride	U	200	100	200	ug/l	100						
Xylenes (TOTAL)	U	2000	1000	2000	ug/l	100						
cis-1,3-Dichloropropylene	U	200	100	200	ug/l	100						
trans-1,3-Dichloropropylene	U	200	100	200	ug/l	100						

Surrogate Recovery	Test	Percent%	Acceptable Limits
1,2-Dichloroethane-d4	TCL VOLATILES	96.4	(81.0 - 114.)
Bromofluorobenzene	TCL VOLATILES	96.8	(86.6 - 109.)
Toluene-d8	TCL VOLATILES	97.2	(89.6 - 107.)

M = Method	Method-Description
M 1	EPA 8240 extended

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GENERAL ENGINEERING LABORATORIES

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Laboratory Certifications

STATE	GEL	SPT
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	
VA	00151	
WI	99984779	

CERTIFICATE OF ANALYSIS

Client: Bechtel
PO Box 350
Oak Ridge, Tennessee 37831-0350
Contact: Ms. Lori Keller
Project Description: Key West/KW

cc: BECH00195 Report Date: June 29, 1995

Sample ID : KW02169 GWT
Lab ID : 9506549-02
Matrix : GroundH2O
Date Collected : 06/27/95
Date Received : 06/28/95
Priority : Urgent
Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M	C
Volatile Organics												
Target Compound List Volatiles - 35 Items												
1,1,1-Trichloroethane	U	2.00	1.00	2.00	ug/l	1.0	ECP	06/28/95	2321	68308	1	1
1,1,2,2-Tetrachloroethane	U	2.00	1.00	2.00	ug/l	1.0						
1,1,2-Trichloroethane	U	2.00	1.00	2.00	ug/l	1.0						
1,1-Dichloroethane	U	2.00	1.00	2.00	ug/l	1.0						
1,1-Dichloroethylene	U	2.00	1.00	2.00	ug/l	1.0						
1,2-Dichloroethane	U	2.00	1.00	2.00	ug/l	1.0						
1,2-Dichloropropane	U	2.00	1.00	2.00	ug/l	1.0						
1,2-cis-Dichloroethylene	E	159	2.00	2.00	ug/l	1.0						
1,2-trans-Dichloroethylene	E	469	1.00	2.00	ug/l	1.0						
2-Butanone	U	10.0	5.00	10.0	ug/l	1.0						
2-Hexanone	U	10.0	5.00	10.0	ug/l	1.0						
4-Methyl-2-pentanone	U	10.0	5.00	10.0	ug/l	1.0						
Acetone	U	10.0	5.00	10.0	ug/l	1.0						
Benzene	U	2.00	1.00	2.00	ug/l	1.0						
Bromoform	U	2.00	2.00	2.00	ug/l	1.0						
Carbon Disulfide	U	10.0	5.00	10.0	ug/l	1.0						
Carbon Tetrachloride	U	10.0	1.00	10.0	ug/l	1.0						
Chlorobenzene	U	2.00	1.00	2.00	ug/l	1.0						
Chlorodibromomethane	U	2.00	1.00	2.00	ug/l	1.0						
Chloroethane	U	2.00	1.00	2.00	ug/l	1.0						
Chloroform	U	2.00	1.00	2.00	ug/l	1.0						
Dichlorobromomethane	U	2.00	1.00	2.00	ug/l	1.0						
Ethylbenzene	U	2.00	1.00	2.00	ug/l	1.0						
Methyl Bromide	U	2.00	1.00	2.00	ug/l	1.0						
Methyl Chloride	U	2.00	1.00	2.00	ug/l	1.0						
Methylene Chloride	U	5.00	1.00	5.00	ug/l	1.0						
Styrene	U	10.0	5.00	10.0	ug/l	1.0						

GENERAL ENGINEERING LABORATORIES

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Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87254	E87472/87458
NC	233	
SC	10120	10582
TN	02934	
VA	00151	
WI	99985779	

CERTIFICATE OF ANALYSIS

Client: Bechtel
PO Box 350
Oak Ridge, Tennessee 37831-0350
Contact: Ms. Lori Keller
Project Description: Key West/KW

cc: BECH00195 Report Date: June 29, 1995

Sample ID : KW02169 GWT

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M	C
Tetrachloroethylene	U	2.00	1.00	2.00	ug/l	1.0						
Toluene	U	2.00	1.00	2.00	ug/l	1.0	ECP	06/28/95	2321	68308	1	1
Trichloroethylene	U	2.00	1.00	2.00	ug/l	1.0						
Vinyl Acetate	U	10.0	5.00	10.0	ug/l	1.0						
Vinyl chloride	U	2.00	1.00	2.00	ug/l	1.0						
Xylenes (TOTAL)	U	10.0	5.00	10.0	ug/l	1.0						
cis-1,3-Dichloropropylene	U	2.00	1.00	2.00	ug/l	1.0						
trans-1,3-Dichloropropylene	U	2.00	1.00	2.00	ug/l	1.0						

Surrogate Recovery	Test	Percent%	Acceptable Limits
1,2-Dichloroethane-d4	TCL VOLATILES	104.	(81.0 - 114.)
Bromofluorobenzene	TCL VOLATILES	103.	(86.6 - 109.)
Toluene-d8	TCL VOLATILES	95.2	(89.6 - 107.)

M = Method	Method Description
M 1	EPA 8240 extended

C = Container	Lab. Container ID	Reference ID
C 1	9506549-02.02	KW0216904

GENERAL ENGINEERING LABORATORIES

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Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87453
NC	233	
SC	10120	10583
TN	02934	
VA	00151	
WI	99918779	

CERTIFICATE OF ANALYSIS

Client: Bechtel
PO Box 350
Oak Ridge, Tennessee 37831-0350
Contact: Ms. Lori Keller
Project Description: Key West/KW

cc: BECH00195 Report Date: July 11, 1995

Sample ID	: 9506549-02 d11 kw02169 gwt
Lab ID	: 9506549-08
Matrix	: GroundH2O
Date Collected	: 06/27/95
Date Received	: 06/28/95
Priority	: Urgent
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M	C
Volatile Organics												
Target Compound List Volatiles - 35 items												
1,1,1-Trichloroethane	U	20.0	10.0	20.0	ug/l	10.	ECP	06/29/95	1714	68780	1	N
1,1,2,2-Tetrachloroethane	U	100	50.0	100	ug/l	10.						
1,1,2-Trichloroethane	U	20.0	10.0	20.0	ug/l	10.						
1,1-Dichloroethane	U	20.0	10.0	20.0	ug/l	10.						
1,1-Dichloroethylene	U	20.0	10.0	20.0	ug/l	10.						
1,2-Dichloroethane	U	20.0	10.0	20.0	ug/l	10.						
1,2-Dichloropropane	U	20.0	10.0	20.0	ug/l	10.						
1,2-cis-Dichloroethylene		196	20.0	20.0	ug/l	10.						
1,2-trans-Dichloroethylene		495	10.0	20.0	ug/l	10.						
2-Butanone	U	100	50.0	100	ug/l	10.						
2-Hexanone	U	100	50.0	100	ug/l	10.						
4-Methyl-2-pentanone	U	100	50.0	100	ug/l	10.						
Acetone	U	100	50.0	100	ug/l	10.						
Benzene	U	20.0	10.0	20.0	ug/l	10.						
Bromoform	U	20.0	20.0	20.0	ug/l	10.						
Carbon Disulfide	U	100	50.0	100	ug/l	10.						
Carbon Tetrachloride	U	20.0	10.0	20.0	ug/l	10.						
Chlorobenzene	U	20.0	10.0	20.0	ug/l	10.						
Chlorodibromomethane	U	20.0	10.0	20.0	ug/l	10.						
Chloroethane	U	20.0	10.0	20.0	ug/l	10.						
Chloroform	U	20.0	10.0	20.0	ug/l	10.						
Dichlorobromomethane	U	20.0	10.0	20.0	ug/l	10.						
Ethylbenzene	U	20.0	10.0	20.0	ug/l	10.						
Methyl Bromide	U	20.0	10.0	20.0	ug/l	10.						
Methyl Chloride	U	20.0	10.0	20.0	ug/l	10.						
Methylene Chloride	U	20.0	10.0	20.0	ug/l	10.						
Styrene	U	100	50.0	100	ug/l	10.						

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Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87451
NC	233	
SC	10120	10582
TN	02934	
VA	00151	
WI	99958779	

CERTIFICATE OF ANALYSIS

Client: Bechtel
PO Box 350
Oak Ridge, Tennessee 37831-0350
Contact: Ms. Lori Keller
Project Description: Key West/KW

cc: BECH00195 Report Date: July 13, 1995

Sample ID	: KW02169 GWT
Lab ID	: 9506550-03
Matrix	: GroundH2O
Date Collected	: 06/27/95
Date Received	: 06/28/95
Priority	: Routine
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M	C
Volatile Organics												
Naphthalene	U	2.00	2.00	2.00	ug/l	1.0	JPA	07/11/95	1107	68830	1	1
General Chemistry												
Total Rec. Petro. Hydrocarbons	U	1000	1000	1000	ug/l	1.0	MCM	07/03/95	1430	68454	2	2

Surrogate Recovery	Test	Percent%	Acceptable Limits
n-propylbenzene	NAP-GC	103.	(52.6 - 155.)

M = Method	Method-Description
M 1	EPA 8020
M 2	EPA 418.1

C = Container	Lab. Container ID	Reference ID
C 1	9506550-03.02	KW0216908
C 2	9506550-03.04	KW0216902

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Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	
VA	00151	
WV	99968779	

CERTIFICATE OF ANALYSIS

Client: Bechtel
PO Box 350
Oak Ridge, Tennessee 37831-0350
Contact: Ms. Lori Keller
Project Description: Key West/KW

cc: BECH00195

Report Date: June 29, 1995

Sample ID	: KW02170 GWT
Lab ID	: 9506549-03
Matrix	: GroundH2O
Date Collected	: 06/27/95
Date Received	: 06/28/95
Priority	: Urgent
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M	C
Volatile Organics												
Target Compound List Volatiles - 35 Items												
1,1-Trichloroethane	U	2.00	1.00	2.00	ug/l	1.0	ECP	06/28/95	2351	68308	1	1
1,1,2,2-Tetrachloroethane	U	2.00	1.00	2.00	ug/l	1.0						
1,1,2-Trichloroethane	U	2.00	1.00	2.00	ug/l	1.0						
1,1-Dichloroethane	U	2.00	1.00	2.00	ug/l	1.0						
1,1-Dichloroethylene	U	2.00	1.00	2.00	ug/l	1.0						
1,2-Dichloroethane	U	2.00	1.00	2.00	ug/l	1.0						
1,2-Dichloropropane	U	2.00	1.00	2.00	ug/l	1.0						
1,2-cis-Dichloroethylene	E	752	2.00	2.00	ug/l	1.0						
1,2-trans-Dichloroethylene	E	1920	1.00	2.00	ug/l	1.0						
2-Butanone	U	10.0	5.00	10.0	ug/l	1.0						
2-Hexanone	U	10.0	5.00	10.0	ug/l	1.0						
4-Methyl-2-pentanone	U	10.0	5.00	10.0	ug/l	1.0						
Acetone	U	10.0	5.00	10.0	ug/l	1.0						
Benzene		7.00	1.00	2.00	ug/l	1.0						
Bromoform	U	2.00	2.00	2.00	ug/l	1.0						
Carbon Disulfide	U	10.0	5.00	10.0	ug/l	1.0						
Carbon Tetrachloride	U	10.0	1.00	10.0	ug/l	1.0						
Chlorobenzene	U	2.00	1.00	2.00	ug/l	1.0						
Chlorodibromomethane	U	2.00	1.00	2.00	ug/l	1.0						
Chloroethane	U	2.00	1.00	2.00	ug/l	1.0						
Chloroform	U	2.00	1.00	2.00	ug/l	1.0						
Dichlorobromomethane	U	2.00	1.00	2.00	ug/l	1.0						
Ethylbenzene	U	2.00	1.00	2.00	ug/l	1.0						
Methyl Bromide	U	2.00	1.00	2.00	ug/l	1.0						
Methyl Chloride	U	2.00	1.00	2.00	ug/l	1.0						
Methylene Chloride	U	5.00	1.00	5.00	ug/l	1.0						
Styrene	U	10.0	5.00	10.0	ug/l	1.0						

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Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87451
NC	235	
SC	10120	10582
TN	02934	
VA	00151	
WI	99918779	

CERTIFICATE OF ANALYSIS

Client: Bechtel
PO Box 350
Oak Ridge, Tennessee 37831-0350
Contact: Ms. Lori Keller
Project Description: Key West/KW

cc: BECH00195 Report Date: July 11, 1995

Sample ID : 9506549-02 dl1 kw02169 gwt

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M	C
Tetrachloroethylene	U	20.0	10.0	20.0	ug/l	10.						
Toluene	U	20.0	10.0	20.0	ug/l	10.	ECP	06/29/95	1714	58780	1	N
Trichloroethylene	U	20.0	10.0	20.0	ug/l	10.						
Vinyl Acetate	U	100	50.0	100	ug/l	10.						
Vinyl chloride	U	20.0	10.0	20.0	ug/l	10.						
Xylenes (TOTAL)	U	200	100	200	ug/l	10.						
cis-1,3-Dichloropropylene	U	20.0	10.0	20.0	ug/l	10.						
trans-1,3-Dichloropropylene	U	20.0	10.0	20.0	ug/l	10.						

Surrogate Recovery	Test	Percent%	Acceptable Limits
1,2-Dichloroethane-d4	TCL VOLATILES	103.	(81.0 - 114.)
Bromofluorobenzene	TCL VOLATILES	99.6	(86.6 - 109.)
Toluene-d8	TCL VOLATILES	96.4	(89.6 - 107.)

M = Method	Method-Description
M 1	EPA 8240 extended

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Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	
VA	00151	
WV	99985779	

CERTIFICATE OF ANALYSIS

Client: Bechtel
PO Box 350
Oak Ridge, Tennessee 37831-0350
Contact: Ms. Lori Keller
Project Description: Key West/KW

cc: BECH00195 Report Date: June 29, 1995

Sample ID : KW02170 GWT

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M	C
Tetrachloroethylene	U	2.00	1.00	2.00	ug/l	1.0						
Toluene	U	2.00	1.00	2.00	ug/l	1.0	ECP	06/28/95	2351	68308	1	1
Trichloroethylene	U	2.00	1.00	2.00	ug/l	1.0						
Vinyl Acetate	U	10.0	5.00	10.0	ug/l	1.0						
Vinyl chloride	U	2.00	1.00	2.00	ug/l	1.0						
Xylenes (TOTAL)	U	10.0	5.00	10.0	ug/l	1.0						
cis-1,3-Dichloropropylene	U	2.00	1.00	2.00	ug/l	1.0						
trans-1,3-Dichloropropylene	U	2.00	1.00	2.00	ug/l	1.0						

Surrogate Recovery	Test	Percent %	Acceptable Limits
1,2-Dichloroethane-d4	TCL VOLATILES	106.	(81.0 - 114.)
Bromofluorobenzene	TCL VOLATILES	102.	(86.6 - 109.)
Toluene-d8	TCL VOLATILES	95.2	(89.6 - 107.)

M = Method	Method-Description
M 1	EPA 8240 extended

C = Container	Lab. Container ID	Reference ID
C 1	9506549-03.03	KW0217005

GENERAL ENGINEERING LABORATORIES

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Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	
VA	00151	
WI	999818779	

CERTIFICATE OF ANALYSIS

Client: Bechtel
PO Box 350
Oak Ridge, Tennessee 37831-0350
Contact: Ms. Lori Keller
Project Description: Key West/KW

cc: BECH00195 | Report Date: July 13, 1995 |

Sample ID	: KW02170 GWT
Lab ID	: 9506550-05
Matrix	: GroundH2O
Date Collected	: 06/27/95
Date Received	: 06/28/95
Priority	: Routine
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M	C
Volatile Organics												
Naphthalene	U	2.00	2.00	2.00	ug/l	1.0	JPA	07/11/95	1240	68830	1	1
General Chemistry												
Total Rec. Petro. Hydrocarbons	U	1000	1000	1000	ug/l	1.0	MCM	07/03/95	1430	68454	2	2

Surrogate Recovery	Test	Percent%	Acceptable Limits
n-propylbenzene	NAP-GC	98.6	(52.6 - 155.)

M = Method	Method-Description
M 1	EPA 8020
M 2	EPA 418.1

C = Container	Lab. Container ID	Reference ID
C 1	9506550-05.02	KW0217007
C 2	9506550-05.04	KW0217001

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Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	
VA	00151	
WI	999887779	

CERTIFICATE OF ANALYSIS

Client: Bechtel
PO Box 350
Oak Ridge, Tennessee 37831-0350
Contact: Ms. Lori Keller
Project Description: Key West/KW

cc: BECH00195 Report Date: July 11, 1995

Sample ID	: 9506549-03 dil kw02170 gwt
Lab ID	: 9506549-09
Matrix	: GroundH2O
Date Collected	: 06/27/95
Date Received	: 06/28/95
Priority	: Urgent
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M	C
Volatile Organics												
Target Compound List Volatiles - 35 Items												
1,1,1-Trichloroethane	U	200	100	200	ug/l	100	ECP	06/29/95	1744	68780	1	N
1,1,2,2-Tetrachloroethane	U	1000	500	1000	ug/l	100						
1,1,2-Trichloroethane	U	200	100	200	ug/l	100						
1,1-Dichloroethane	U	200	100	200	ug/l	100						
1,1-Dichloroethylene	U	200	100	200	ug/l	100						
1,2-Dichloroethane	U	200	100	200	ug/l	100						
1,2-Dichloropropane	U	200	100	200	ug/l	100						
1,2-cis-Dichloroethylene		1560	200	200	ug/l	100						
1,2-trans-Dichloroethylene		2420	100	200	ug/l	100						
2-Butanone	U	1000	500	1000	ug/l	100						
2-Hexanone	U	1000	500	1000	ug/l	100						
4-Methyl-2-pentanone	U	1000	500	1000	ug/l	100						
Acetone	U	1000	500	1000	ug/l	100						
Benzene	U	200	100	200	ug/l	100						
Bromoform	U	200	200	200	ug/l	100						
Carbon Disulfide	U	1000	500	1000	ug/l	100						
Carbon Tetrachloride	U	200	100	200	ug/l	100						
Chlorobenzene	U	200	100	200	ug/l	100						
Chlorodibromomethane	U	200	100	200	ug/l	100						
Chloroethane	U	200	100	200	ug/l	100						
Chloroform	U	200	100	200	ug/l	100						
Dichlorobromomethane	U	200	100	200	ug/l	100						
Ethylbenzene	U	200	100	200	ug/l	100						
Methyl Bromide	U	200	100	200	ug/l	100						
Methyl Chloride	U	200	100	200	ug/l	100						
Methylene Chloride	U	200	100	200	ug/l	100						
Styrene	U	1000	500	1000	ug/l	100						

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Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87451
NC	233	
SC	10120	10512
TN	02934	
VA	00151	
WI	99918779	

CERTIFICATE OF ANALYSIS

Client: Bechtel
PO Box 350
Oak Ridge, Tennessee 37831-0350
Contact: Ms. Lori Keller
Project Description: Key West/KW

oc: BECH00195 Report Date: July 11, 1995

Sample ID : 9506549-03 dil kw02170 gwt

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M	C
Tetrachloroethylene	U	200	100	200	ug/l	100						
Toluene	U	200	100	200	ug/l	100	ECP	06/29/95	1744	68780	1	N
Trichloroethylene	U	200	100	200	ug/l	100						
Vinyl Acetate	U	1000	500	1000	ug/l	100						
Vinyl chloride	U	200	100	200	ug/l	100						
Xylenes (TOTAL)	U	2000	1000	2000	ug/l	100						
cis-1,3-Dichloropropylene	U	200	100	200	ug/l	100						
trans-1,3-Dichloropropylene	U	200	100	200	ug/l	100						

Surrogate Recovery	Test	Percent %	Acceptable Limits
1,2-Dichloroethane-d4	TCL VOLATILES	109.	(81.0 - 114.)
Bromofluorobenzene	TCL VOLATILES	102.	(86.6 - 109.)
Toluene-d8	TCL VOLATILES	96.0	(89.6 - 107.)

M = Method	Method-Description
M 1	EPA 8240 extended

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Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	
VA	00151	
WI	99985779	

CERTIFICATE OF ANALYSIS

Client: Bechtel
PO Box 350
Oak Ridge, Tennessee 37831-0350
Contact: Ms. Lori Keller
Project Description: Key West/KW

cc: BECH00195 Report Date: June 29, 1995

Sample ID : KW02171 GWT
Lab ID : 9506549-04
Matrix : GroundH2O
Date Collected : 06/27/95
Date Received : 06/28/95
Priority : Urgent
Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M	C
Volatile Organics												
Target Compound List Volatiles - 35 items												
1,1,1-Trichloroethane	U	2.00	1.00	2.00	ug/l	1.0	ECP	06/28/95	1815	68308	1	1
1,1,2,2-Tetrachloroethane	U	2.00	1.00	2.00	ug/l	1.0						
1,1,2-Trichloroethane	U	2.00	1.00	2.00	ug/l	1.0						
1,1-Dichloroethane	U	2.00	1.00	2.00	ug/l	1.0						
1,1-Dichloroethylene	U	2.00	1.00	2.00	ug/l	1.0						
1,2-Dichloroethane	U	2.00	1.00	2.00	ug/l	1.0						
1,2-Dichloropropane	U	2.00	1.00	2.00	ug/l	1.0						
1,2-cis-Dichloroethylene		18.4	2.00	2.00	ug/l	1.0						
1,2-trans-Dichloroethylene		56.2	1.00	2.00	ug/l	1.0						
2-Butanone	U	10.0	5.00	10.0	ug/l	1.0						
2-Hexanone	U	10.0	5.00	10.0	ug/l	1.0						
4-Methyl-2-pentanone	U	10.0	5.00	10.0	ug/l	1.0						
Acetone	U	10.0	5.00	10.0	ug/l	1.0						
Benzene	U	2.00	1.00	2.00	ug/l	1.0						
Bromoform	U	2.00	2.00	2.00	ug/l	1.0						
Carbon Disulfide	U	10.0	5.00	10.0	ug/l	1.0						
Carbon Tetrachloride	U	10.0	1.00	10.0	ug/l	1.0						
Chlorobenzene	U	2.00	1.00	2.00	ug/l	1.0						
Chlorodibromomethane	U	2.00	1.00	2.00	ug/l	1.0						
Chloroethane	U	2.00	1.00	2.00	ug/l	1.0						
Chloroform	U	2.00	1.00	2.00	ug/l	1.0						
Dichlorobromomethane	U	2.00	1.00	2.00	ug/l	1.0						
Ethylbenzene	U	2.00	1.00	2.00	ug/l	1.0						
Methyl Bromide	U	2.00	1.00	2.00	ug/l	1.0						
Methyl Chloride	U	2.00	1.00	2.00	ug/l	1.0						
Methylene Chloride	U	5.00	1.00	5.00	ug/l	1.0						
Styrene	U	10.0	5.00	10.0	ug/l	1.0						

GENERAL ENGINEERING LABORATORIES

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Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	
VA	00151	
WI	99988779	

CERTIFICATE OF ANALYSIS

Client: Bechtel
PO Box 350
Oak Ridge, Tennessee 37831-0350
Contact: Ms. Lori Keller
Project Description: Key West/KW

co: BECH00195 Report Date: June 29, 1995

Sample ID : KW02171 GWT

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M	C
Tetrachloroethylene	U	2.00	1.00	2.00	ug/l	1.0						
Toluene	U	2.00	1.00	2.00	ug/l	1.0	ECP	06/28/95	1815	68308	1	1
Trichloroethylene	U	2.00	1.00	2.00	ug/l	1.0						
Vinyl Acetate	U	10.0	5.00	10.0	ug/l	1.0						
Vinyl chloride	U	2.00	1.00	2.00	ug/l	1.0						
Xylenes (TOTAL)	U	10.0	5.00	10.0	ug/l	1.0						
cis-1,3-Dichloropropylene	U	2.00	1.00	2.00	ug/l	1.0						
trans-1,3-Dichloropropylene	U	2.00	1.00	2.00	ug/l	1.0						

Surrogate Recovery	Test	Percent%	Acceptable Limits
1,2-Dichloroethane-d4	TCL VOLATILES	98.8	(81.0 - 114.)
Bromofluorobenzene	TCL VOLATILES	97.6	(86.6 - 109.)
Toluene-d8	TCL VOLATILES	96.0	(89.6 - 107.)

M = Method	Method-Description
M 1	EPA 8240 extended

C = Container	Lab. Container ID	Reference ID
C 1	9506549-04.02	KW0217104

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Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87456
NC	233	
SC	10120	10582
TN	02934	
VA	00151	
WI	99985779	

CERTIFICATE OF ANALYSIS

Client: Bechtel
PO Box 350
Oak Ridge, Tennessee 37831-0350
Contact: Ms. Lori Keller
Project Description: Key West/KW

cc: BECH00195 Report Date: July 13, 1995

Sample ID	: KW02171 GWT
Lab ID	: 9506550-06
Matrix	: GroundH2O
Date Collected	: 06/27/95
Date Received	: 06/28/95
Priority	: Routine
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M	C
Volatile Organics												
Naphthalene	U	2.00	2.00	2.00	ug/l	1.0	JPA	07/11/95	1544	68830	1	1
General Chemistry												
Total Rec. Petro. Hydrocarbons	U	1000	1000	1000	ug/l	1.0	MCM	07/03/95	1430	68454	2	2

Surrogate Recovery	Test	Percent%	Acceptable Limits
n-propylbenzene	NAP-GC	105.	(52.6 - 155.)

M = Method	Method-Description
M 1	EPA 8020
M 2	EPA 418.1

C = Container	Lab. Container ID	Reference ID
C 1	9506550-06.02	KW0217107
C 2	9506550-06.05	KW0217102

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GENERAL ENGINEERING LABORATORIES

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Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	
VA	00151	
WI	99988779	

CERTIFICATE OF ANALYSIS

Client: Bechtel
PO Box 350
Oak Ridge, Tennessee 37831-0350
Contact: Ms. Lori Keller
Project Description: Key West/KW

cc: BECH00195 Report Date: June 29, 1995

Sample ID : KW02172 GWT
Lab ID : 9506549-05
Matrix : GroundH2O
Date Collected : 06/27/95
Date Received : 06/28/95
Priority : Urgent
Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M	C
Volatile Organics												
Target Compound List Volatiles - 35 items												
1,1,1-Trichloroethane	U	2.00	1.00	2.00	ug/l	1.0	ECP	06/29/95	0020	68308	1	1
1,1,2,2-Tetrachloroethane	U	2.00	1.00	2.00	ug/l	1.0						
1,1,2-Trichloroethane	U	2.00	1.00	2.00	ug/l	1.0						
1,1-Dichloroethane	U	2.00	1.00	2.00	ug/l	1.0						
1,1-Dichloroethylene	U	2.00	1.00	2.00	ug/l	1.0						
1,2-Dichloroethane	U	2.00	1.00	2.00	ug/l	1.0						
1,2-Dichloropropane	U	2.00	1.00	2.00	ug/l	1.0						
1,2-cis-Dichloroethylene		15.0	2.00	2.00	ug/l	1.0						
1,2-trans-Dichloroethylene		23.5	1.00	2.00	ug/l	1.0						
2-Butanone	U	10.0	5.00	10.0	ug/l	1.0						
2-Hexanone	U	10.0	5.00	10.0	ug/l	1.0						
4-Methyl-2-pentanone	U	10.0	5.00	10.0	ug/l	1.0						
Acetone	U	10.0	5.00	10.0	ug/l	1.0						
Benzene	U	2.00	1.00	2.00	ug/l	1.0						
Bromoform	U	2.00	2.00	2.00	ug/l	1.0						
Carbon Disulfide	U	10.0	5.00	10.0	ug/l	1.0						
Carbon Tetrachloride	U	10.0	1.00	10.0	ug/l	1.0						
Chlorobenzene	U	2.00	1.00	2.00	ug/l	1.0						
Chlorodibromomethane	U	2.00	1.00	2.00	ug/l	1.0						
Chloroethane	U	2.00	1.00	2.00	ug/l	1.0						
Chloroform	U	2.00	1.00	2.00	ug/l	1.0						
Dichlorobromomethane	U	2.00	1.00	2.00	ug/l	1.0						
Ethylbenzene	U	2.00	1.00	2.00	ug/l	1.0						
Methyl Bromide	U	2.00	1.00	2.00	ug/l	1.0						
Methyl Chloride	U	2.00	1.00	2.00	ug/l	1.0						
Methylene Chloride	U	5.00	1.00	5.00	ug/l	1.0						
Styrene	U	10.0	5.00	10.0	ug/l	1.0						

GENERAL ENGINEERING LABORATORIES

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Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	
VA	00151	
WI	999887779	

CERTIFICATE OF ANALYSIS

Client: Bechtel
PO Box 350
Oak Ridge, Tennessee 37831-0350
Contact: Ms. Lori Keller
Project Description: Key West/KW

cc: BECH00195 Report Date: June 29, 1995

Sample ID : KW02172 GWT

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M	C
Tetrachloroethylene	U	2.00	1.00	2.00	ug/l	1.0						
Toluene	U	2.00	1.00	2.00	ug/l	1.0	ECP	06/29/95	0020	68308	1	1
Trichloroethylene		2.41	1.00	2.00	ug/l	1.0						
Vinyl Acetate	U	10.0	5.00	10.0	ug/l	1.0						
Vinyl chloride	U	2.00	1.00	2.00	ug/l	1.0						
Xylenes (TOTAL)	U	10.0	5.00	10.0	ug/l	1.0						
cis-1,3-Dichloropropylene	U	2.00	1.00	2.00	ug/l	1.0						
trans-1,3-Dichloropropylene	U	2.00	1.00	2.00	ug/l	1.0						

Surrogate Recovery	Test	Percent%	Acceptable Limits
1,2-Dichloroethane-d4	TCL VOLATILES	99.6	(81.0 - 114.)
Bromofluorobenzene	TCL VOLATILES	99.2	(86.6 - 109.)
Toluene-d8	TCL VOLATILES	96.4	(89.6 - 107.)

M = Method	Method-Description
M 1	EPA 8240 extended

C = Container	Lab. Container ID	Reference ID
C 1	9506549-05.03	KW0217205

GENERAL ENGINEERING LABORATORIES

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Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	
VA	00151	
WI	99988779	

CERTIFICATE OF ANALYSIS

Client: Bechtel
PO Box 350
Oak Ridge, Tennessee 37831-0350
Contact: Ms. Lori Keller
Project Description: Key West/KW

cc: BECH00195 Report Date: July 13, 1995

Sample ID	: KW02172 GWT
Lab ID	: 9506550-07
Matrix	: GroundH2O
Date Collected	: 06/27/95
Date Received	: 06/28/95
Priority	: Routine
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M	C
Volatile Organics												
Naphthalene	U	2.00	2.00	2.00	ug/l	1.0	JPA	07/11/95	1341	68830	1	1
General Chemistry												
Total Rec. Petro. Hydrocarbons	U	1000	1000	1000	ug/l	1.0	MCM	07/03/95	1430	68454	2	2

Surrogate Recovery	Test	Percent%	Acceptable Limits
n-propylbenzene	NAP-GC	103.	(52.6 - 155.)

M = Method	Method-Description
M 1	EPA 8020
M 2	EPA 418.1

C = Container	Lab. Container ID	Reference ID
C 1	9506550-07.02	KW0217207
C 2	9506550-07.05	KW0217202

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Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	
VA	00151	
WI	99918779	

CERTIFICATE OF ANALYSIS

Client: Bechtel
PO Box 350
Oak Ridge, Tennessee 37831-0350
Contact: Ms. Lori Keller
Project Description: Key West/KW

cc: BECH00195 Report Date: July 11, 1995

Sample ID	: 9506549-05 dil kw02172 gwt
Lab ID	: 9506549-10
Matrix	: GroundH2O
Date Collected	: 06/27/95
Date Received	: 06/28/95
Priority	: Urgent
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M	C
Volatile Organics												
Target Compound List Volatiles - 35 items												
1,1,1-Trichloroethane	U	2.00	1.00	2.00	ug/l	1.0	ECP	06/29/95	1915	68780	1	N
1,1,2,2-Tetrachloroethane	U	10.0	5.00	10.0	ug/l	1.0						
1,1,2-Trichloroethane	U	2.00	1.00	2.00	ug/l	1.0						
1,1-Dichloroethane	U	2.00	1.00	2.00	ug/l	1.0						
1,1-Dichloroethylene	U	2.00	1.00	2.00	ug/l	1.0						
1,2-Dichloroethane	U	2.00	1.00	2.00	ug/l	1.0						
1,2-Dichloropropane	U	2.00	1.00	2.00	ug/l	1.0						
1,2-cis-Dichloroethylene		13.0	2.00	2.00	ug/l	1.0						
1,2-trans-Dichloroethylene		19.2	1.00	2.00	ug/l	1.0						
2-Butanone	U	10.0	5.00	10.0	ug/l	1.0						
2-Hexanone	U	10.0	5.00	10.0	ug/l	1.0						
4-Methyl-2-pentanone	U	10.0	5.00	10.0	ug/l	1.0						
Acetone	U	10.0	5.00	10.0	ug/l	1.0						
Benzene	U	2.00	1.00	2.00	ug/l	1.0						
Bromoform	U	2.00	2.00	2.00	ug/l	1.0						
Carbon Disulfide	U	10.0	5.00	10.0	ug/l	1.0						
Carbon Tetrachloride	U	2.00	1.00	2.00	ug/l	1.0						
Chlorobenzene	U	2.00	1.00	2.00	ug/l	1.0						
Chlorodibromomethane	U	2.00	1.00	2.00	ug/l	1.0						
Chloroethane	U	2.00	1.00	2.00	ug/l	1.0						
Chloroform	U	2.00	1.00	2.00	ug/l	1.0						
Dichlorobromomethane	U	2.00	1.00	2.00	ug/l	1.0						
Ethylbenzene	U	2.00	1.00	2.00	ug/l	1.0						
Methyl Bromide	U	2.00	1.00	2.00	ug/l	1.0						
Methyl Chloride	U	2.00	1.00	2.00	ug/l	1.0						
Methylene Chloride	U	5.00	1.00	5.00	ug/l	1.0						
Styrene	U	10.0	5.00	10.0	ug/l	1.0						

GENERAL ENGINEERING LABORATORIES

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Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	235	
SC	10120	10582
TN	02934	
VA	00151	
WI	999885779	

CERTIFICATE OF ANALYSIS

Client: Bechtel
PO Box 350
Oak Ridge, Tennessee 37831-0350
Contact: Ms. Lori Keller
Project Description: Key West/KW

cc: BECH00195 Report Date: July 11, 1995

Sample ID : 9506549-05 dil kw02172 gwt

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M	C
Tetrachloroethylene	U	2.00	1.00	2.00	ug/l	1.0						
Toluene	U	2.00	1.00	2.00	ug/l	1.0	ECP	06/29/95	1916	58780	1	N
Trichloroethylene		2.34	1.00	2.00	ug/l	1.0						
Vinyl Acetate	U	10.0	5.00	10.0	ug/l	1.0						
Vinyl chloride	U	2.00	1.00	2.00	ug/l	1.0						
Xylenes (TOTAL)	U	20.0	10.0	20.0	ug/l	1.0						
cis-1,3-Dichloropropylene	U	2.00	1.00	2.00	ug/l	1.0						
trans-1,3-Dichloropropylene	U	2.00	1.00	2.00	ug/l	1.0						

Surrogate Recovery	Test	Percent%	Acceptable Limits
1,2-Dichloroethane-d4	TCL VOLATILES	106.	(81.0 - 114.)
Bromofluorobenzene	TCL VOLATILES	100.	(86.6 - 109.)
Toluene-d8	TCL VOLATILES	97.2	(89.6 - 107.)

M = Method	Method-Description
M 1	EPA 8240 extended

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GENERAL ENGINEERING LABORATORIES

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Laboratory Certifications

STATE	GEL	EPA
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	
VA	00151	
WI	99988779	

CERTIFICATE OF ANALYSIS

Client: Bechtel
PO Box 350
Oak Ridge, Tennessee 37831-0350
Contact: Ms. Lori Keller
Project Description: Key West/KW

cc: BECH00195

Report Date: June 29, 1995

Sample ID	: KW02173 GWT
Lab ID	: 9506549-06
Matrix	: GroundH2O
Date Collected	: 06/27/95
Date Received	: 06/28/95
Priority	: Urgent
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M	C
Volatile Organics												
Target Compound List Volatiles - 35 items												
1,1,1-Trichloroethane	U	2.00	1.00	2.00	ug/l	1.0	ECP	06/29/95	0050	68308	1	1
1,1,2,2-Tetrachloroethane	U	2.00	1.00	2.00	ug/l	1.0						
1,1,2-Trichloroethane	U	2.00	1.00	2.00	ug/l	1.0						
1,1-Dichloroethane	U	2.00	1.00	2.00	ug/l	1.0						
1,1-Dichloroethylene	U	2.00	1.00	2.00	ug/l	1.0						
1,2-Dichloroethane	U	2.00	1.00	2.00	ug/l	1.0						
1,2-Dichloropropane	U	2.00	1.00	2.00	ug/l	1.0						
1,2-cis-Dichloroethylene		51.3	2.00	2.00	ug/l	1.0						
1,2-trans-Dichloroethylene		6.82	1.00	2.00	ug/l	1.0						
2-Butanone	U	10.0	5.00	10.0	ug/l	1.0						
2-Hexanone	U	10.0	5.00	10.0	ug/l	1.0						
4-Methyl-2-pentanone	U	10.0	5.00	10.0	ug/l	1.0						
Acetone	U	10.0	5.00	10.0	ug/l	1.0						
Benzene	U	2.00	1.00	2.00	ug/l	1.0						
Bromoform	U	2.00	2.00	2.00	ug/l	1.0						
Carbon Disulfide	U	10.0	5.00	10.0	ug/l	1.0						
Carbon Tetrachloride	U	10.0	1.00	10.0	ug/l	1.0						
Chlorobenzene	U	2.00	1.00	2.00	ug/l	1.0						
Chlorodibromomethane	U	2.00	1.00	2.00	ug/l	1.0						
Chloroethane	U	2.00	1.00	2.00	ug/l	1.0						
Chloroform	U	2.00	1.00	2.00	ug/l	1.0						
Dichlorobromomethane	U	2.00	1.00	2.00	ug/l	1.0						
Ethylbenzene	U	2.00	1.00	2.00	ug/l	1.0						
Methyl Bromide	U	2.00	1.00	2.00	ug/l	1.0						
Methyl Chloride	U	2.00	1.00	2.00	ug/l	1.0						
Methylene Chloride	U	5.00	1.00	5.00	ug/l	1.0						
Styrene	U	10.0	5.00	10.0	ug/l	1.0						

GENERAL ENGINEERING LABORATORIES

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Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	
VA	00151	
WI	99985779	

CERTIFICATE OF ANALYSIS

Client: Bechtel
PO Box 350
Oak Ridge, Tennessee 37831-0350
Contact: Ms. Lori Keller
Project Description: Key West/KW

cc: BECH00195 Report Date: June 29, 1995

Sample ID : KW02173 GWT

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M	C
Tetrachloroethylene	U	2.00	1.00	2.00	ug/l	1.0						
Toluene	U	2.00	1.00	2.00	ug/l	1.0	ECP	06/29/95	0050	68308	1	1
Trichloroethylene	U	2.00	1.00	2.00	ug/l	1.0						
Vinyl Acetate	U	10.0	5.00	10.0	ug/l	1.0						
Vinyl chloride	U	2.00	1.00	2.00	ug/l	1.0						
Xylenes (TOTAL)	U	10.0	5.00	10.0	ug/l	1.0						
cis-1,3-Dichloropropylene	U	2.00	1.00	2.00	ug/l	1.0						
trans-1,3-Dichloropropylene	U	2.00	1.00	2.00	ug/l	1.0						

Surrogate Recovery	Test	Percent%	Acceptable Limits
1,2-Dichloroethane-d4	TCL VOLATILES	103.	(81.0 - 114.)
Bromofluorobenzene	TCL VOLATILES	102.	(85.6 - 109.)
Toluene-d8	TCL VOLATILES	95.2	(89.6 - 107.)

M = Method	Method Description
M 1	EPA 8240 extended

C = Container	Lab. Container ID	Reference ID
C 1	9506549-06.03	KW0217305

GENERAL ENGINEERING LABORATORIES

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Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10952
TN	02934	
VA	00151	
WI	99928779	

CERTIFICATE OF ANALYSIS

Client: Bechtel
PO Box 350
Oak Ridge, Tennessee 37831-0350
Contact: Ms. Lori Keller
Project Description: Key West/KW

cc: BECH00195 Report Date: July 13, 1995

Sample ID	: KW02173 GWT
Lab ID	: 9506550-08
Matrix	: GroundH2O
Date Collected	: 06/27/95
Date Received	: 06/28/95
Priority	: Routine
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M	C
Volatile Organics												
Naphthalene	U	2.00	2.00	2.00	ug/l	1.0	JPA	07/11/95	1442	68830	1	1
General Chemistry												
Total Rec. Petro. Hydrocarbons	U	1000	1000	1000	ug/l	1.0	MCM	07/03/95	1430	68454	2	2

Surrogate Recovery	Test	Percent%	Acceptable Limits
n-propylbenzene	NAP-GC	106.	(52.6 - 155.)

M = Method	Method-Description
M 1	EPA 8020
M 2	EPA 418.1

C = Container	Lab. Container ID	Reference ID
C 1	9506550-08.02	KW0217308
C 2	9506550-08.05	KW0217301

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GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87451
NC	233	
SC	10120	10582
TN	02934	
VA	00151	
WI	99985779	

CERTIFICATE OF ANALYSIS

Client: Bechtel
PO Box 350
Oak Ridge, Tennessee 37831-0350
Contact: Ms. Lori Keller
Project Description: Key West/KW

cc: BECH00195 | Report Date: July 17, 1995 |

Sample ID	: KW02174 GWT
Lab ID	: 9506550-01
Matrix	: GroundH2O
Date Collected	: 06/27/95
Date Received	: 06/28/95
Priority	: Routine
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M	C
Volatile Organics												
Target Compound List Volatiles - 35 items												
1,1,1-Trichloroethane	U	2.00	1.00	2.00	ug/l	1.0	RMB	07/10/95	1811	68766	1	1
1,1,2,2-Tetrachloroethane	U	10.0	5.00	10.0	ug/l	1.0						
1,1,2-Trichloroethane	U	2.00	1.00	2.00	ug/l	1.0						
1,1-Dichloroethane	U	2.00	1.00	2.00	ug/l	1.0						
1,1-Dichloroethylene	U	2.00	1.00	2.00	ug/l	1.0						
1,2-Dichloroethane	U	2.00	1.00	2.00	ug/l	1.0						
1,2-Dichloropropane	U	2.00	1.00	2.00	ug/l	1.0						
1,2-cis-Dichloroethylene	U	2.00	2.00	2.00	ug/l	1.0						
1,2-trans-Dichloroethylene	U	2.00	1.00	2.00	ug/l	1.0						
2-Butanone	U	10.0	5.00	10.0	ug/l	1.0						
2-Hexanone	U	10.0	5.00	10.0	ug/l	1.0						
4-Methyl-2-pentanone	U	10.0	5.00	10.0	ug/l	1.0						
Acetone	U	10.0	5.00	10.0	ug/l	1.0						
Benzene	U	2.00	1.00	2.00	ug/l	1.0						
Carbon Disulfide	U	10.0	5.00	10.0	ug/l	1.0						
Carbon Tetrachloride	U	2.00	1.00	2.00	ug/l	1.0						
Chlorobenzene	U	2.00	1.00	2.00	ug/l	1.0						
Chlorodibromomethane	U	2.00	1.00	2.00	ug/l	1.0						
Chloroethane	U	2.00	1.00	2.00	ug/l	1.0						
Chloroform	U	2.00	1.00	2.00	ug/l	1.0						
Dichlorobromomethane	U	2.00	1.00	2.00	ug/l	1.0						
Ethylbenzene	U	2.00	1.00	2.00	ug/l	1.0						
Methyl Bromide	U	2.00	1.00	2.00	ug/l	1.0						
Methyl Chloride	U	2.00	1.00	2.00	ug/l	1.0						
Methylene Chloride	JB	0.602	1.00	5.00	ug/l	1.0						
Styrene	U	10.0	5.00	10.0	ug/l	1.0						

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/E7294	E87472/87458
NC	235	
SC	10120	10582
TN	02934	
VA	00151	
WI	99984779	

CERTIFICATE OF ANALYSIS

Client: Bechtel
PO Box 350
Oak Ridge, Tennessee 37831-0350
Contact: Ms. Lori Keller
Project Description: Key West/KW

cc: BECH00195 Report Date: July 17, 1995

Sample ID : KW02174 GWT

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M	C
Tetrachloroethylene	U	2.00	1.00	2.00	ug/l	1.0						
Toluene	U	2.00	1.00	2.00	ug/l	1.0	RMB	07/10/95	1811	68766	1	1
Trichloroethylene	U	2.00	1.00	2.00	ug/l	1.0						
Vinyl Acetate	U	10.0	5.00	10.0	ug/l	1.0						
Vinyl chloride	U	2.00	1.00	2.00	ug/l	1.0						
Xylenes (TOTAL)	U	20.0	10.0	20.0	ug/l	1.0						
cis-1,3-Dichloropropylene	U	2.00	1.00	2.00	ug/l	1.0						
trans-1,3-Dichloropropylene	U	2.00	1.00	2.00	ug/l	1.0						
General Chemistry												
Total Rec. Petro. Hydrocarbons	U	1000	1000	1000	ug/l	1.0	MCM	07/03/95	1430	68454	2	2

Surrogate Recovery	Test	Percent%	Acceptable Limits
1,2-Dichloroethane-d4	TCL VOLATILES	94.4	(81.0 - 114.)
Bromofluorobenzene	TCL VOLATILES	93.2	(86.6 - 109.)
Toluene-d8	TCL VOLATILES	98.8	(89.6 - 107.)

M = Method	Method-Description
M 1	EPA 8240 extended
M 2	EPA 418.1

C = Container	Lab. Container ID	Reference ID
C 1	9506550-01.01	KW0217405
C 2	9506550-01.04	KW0217402

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GENERAL ENGINEERING LABORATORIES

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Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87451
NC	233	
SC	10120	10582
TN	02934	
VA	00151	
WI	999187779	

CERTIFICATE OF ANALYSIS

Client: Bechtel
PO Box 350
Oak Ridge, Tennessee 37831-0350
Contact: Ms. Lori Keller
Project Description: Key West/KW

cc: BECH00195 Report Date: July 17, 1995

Sample ID : KW02175 GWT
Lab ID : 9506550-02
Matrix : GroundH2O
Date Collected : 06/27/95
Date Received : 06/28/95
Priority : Routine
Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M	C
Volatile Organics												
Target Compound List Volatiles - 35 items												
1,1,1-Trichloroethane	U	2.00	1.00	2.00	ug/l	1.0	RMB	07/10/95	1844	68766	1	1
1,1,2,2-Tetrachloroethane	U	10.0	5.00	10.0	ug/l	1.0						
1,1,2-Trichloroethane	U	2.00	1.00	2.00	ug/l	1.0						
1,1-Dichloroethane	U	2.00	1.00	2.00	ug/l	1.0						
1,1-Dichloroethylene	U	2.00	1.00	2.00	ug/l	1.0						
1,2-Dichloroethane	U	2.00	1.00	2.00	ug/l	1.0						
1,2-Dichloropropane	U	2.00	1.00	2.00	ug/l	1.0						
1,2-cis-Dichloroethylene	U	2.00	2.00	2.00	ug/l	1.0						
1,2-trans-Dichloroethylene	U	2.00	1.00	2.00	ug/l	1.0						
2-Butanone	U	10.0	5.00	10.0	ug/l	1.0						
2-Hexanone	U	10.0	5.00	10.0	ug/l	1.0						
4-Methyl-2-pentanone	U	10.0	5.00	10.0	ug/l	1.0						
Acetone	U	10.0	5.00	10.0	ug/l	1.0						
Benzene	U	2.00	1.00	2.00	ug/l	1.0						
Bromoform	U	2.00	2.00	2.00	ug/l	1.0						
Carbon Disulfide	U	10.0	5.00	10.0	ug/l	1.0						
Carbon Tetrachloride	U	2.00	1.00	2.00	ug/l	1.0						
Chlorobenzene	U	2.00	1.00	2.00	ug/l	1.0						
Chlorodibromomethane	U	2.00	1.00	2.00	ug/l	1.0						
Chloroethane	U	2.00	1.00	2.00	ug/l	1.0						
Chloroform	U	2.00	1.00	2.00	ug/l	1.0						
Dichlorobromomethane	U	2.00	1.00	2.00	ug/l	1.0						
Ethylbenzene	U	2.00	1.00	2.00	ug/l	1.0						
Methyl Bromide	U	2.00	1.00	2.00	ug/l	1.0						
Methyl Chloride	U	2.00	1.00	2.00	ug/l	1.0						
Methylene Chloride	U	5.00	1.00	5.00	ug/l	1.0						
Styrene	U	10.0	5.00	10.0	ug/l	1.0						

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GENERAL ENGINEERING LABORATORIES

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Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	
VA	00151	
WI	99988779	

CERTIFICATE OF ANALYSIS

Client: Bechtel
PO Box 350
Oak Ridge, Tennessee 37831-0350
Contact: Ms. Lori Keller
Project Description: Key West/KW

cc: BECH00195 | Report Date: July 17, 1995 |

Sample ID : KW02175 GWT

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M	C
Tetrachloroethylene	U	2.00	1.00	2.00	ug/l	1.0						
Toluene	U	2.00	1.00	2.00	ug/l	1.0	RMB	07/10/95	1844	68766	1	1
Trichloroethylene	U	2.00	1.00	2.00	ug/l	1.0						
Vinyl Acetate	U	10.0	5.00	10.0	ug/l	1.0						
Vinyl chloride	U	2.00	1.00	2.00	ug/l	1.0						
Xylenes (TOTAL)	U	20.0	10.0	20.0	ug/l	1.0						
cis-1,3-Dichloropropylene	U	2.00	1.00	2.00	ug/l	1.0						
trans-1,3-Dichloropropylene	U	2.00	1.00	2.00	ug/l	1.0						
General Chemistry												
Total Rec. Petro. Hydrocarbons	U	1000	1000	1000	ug/l	1.0	MCM	07/03/95	1430	68454	2	2

Surrogate Recovery	Test	Percent%	Acceptable Limits
1,2-Dichloroethane-d4	TCL VOLATILES	83.2	(81.0 - 114.)
Bromofluorobenzene	TCL VOLATILES	1720*	(86.6 - 109.)
Toluene-d8	TCL VOLATILES	81.2*	(89.6 - 107.)

M = Method	Method-Description
M 1	EPA 8240 extended
M 2	EPA 418.1

C = Container	Lab. Container ID	Reference ID
C 1	9506550-02.01	KW0217504
C 2	9506550-02.04	KW0217501

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GENERAL ENGINEERING LABORATORIES

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Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	
VA	00151	
WI	99988779	

CERTIFICATE OF ANALYSIS

Client: Bechtel
PO Box 350
Oak Ridge, Tennessee 37831-0350
Contact: Ms. Lori Keller
Project Description: Key West/KW

cc: BECH00195 Report Date: July 17, 1995

Sample ID : 9506550-02 dil KW02175
Lab ID : 9506550-09
Matrix : GroundH2O
Date Collected : 06/27/95
Date Received : 06/28/95
Priority : Routine
Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M	C
Volatile Organics												
Target Compound List Volatiles - 35 items												
1,1,1-Trichloroethane	U	200	100	200	ug/l	100	RMB	07/11/95	2037	68766	1	N
1,1,2,2-Tetrachloroethane	U	1000	500	1000	ug/l	100						
1,1,2-Trichloroethane	U	200	100	200	ug/l	100						
1,1-Dichloroethane	U	200	100	200	ug/l	100						
1,1-Dichloroethylene	U	200	100	200	ug/l	100						
1,2-Dichloroethane	U	200	100	200	ug/l	100						
1,2-Dichloropropane	U	200	100	200	ug/l	100						
1,2-cis-Dichloroethylene	U	200	200	200	ug/l	100						
1,2-trans-Dichloroethylene	U	200	100	200	ug/l	100						
2-Butanone	U	1000	500	1000	ug/l	100						
2-Hexanone	U	1000	500	1000	ug/l	100						
4-Methyl-2-pentanone	U	1000	500	1000	ug/l	100						
Acetone	U	1000	500	1000	ug/l	100						
Benzene	U	200	100	200	ug/l	100						
Bromoform	U	200	200	200	ug/l	100						
Carbon Disulfide	U	1000	500	1000	ug/l	100						
Carbon Tetrachloride	U	200	100	200	ug/l	100						
Chlorobenzene	U	200	100	200	ug/l	100						
Chlorodibromomethane	U	200	100	200	ug/l	100						
Chloroethane	U	200	100	200	ug/l	100						
Chloroform	U	200	100	200	ug/l	100						
Dichlorobromomethane	U	200	100	200	ug/l	100						
Ethylbenzene	U	200	100	200	ug/l	100						
Methyl Bromide	U	200	100	200	ug/l	100						
Methyl Chloride	U	200	100	200	ug/l	100						
Methylene Chloride	JBD	77.5	100	200	ug/l	100						
Styrene	U	1000	500	1000	ug/l	100						

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Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	235	
SC	10120	10582
TN	02934	
VA	00151	
WI	999583779	

CERTIFICATE OF ANALYSIS

Client: Bechtel
PO Box 350
Oak Ridge, Tennessee 37831-0350
Contact: Ms. Lori Keller
Project Description: Key West/KW

cc: BECH00195 Report Date: July 17, 1995

Sample ID : 9506550-02 dil KW02175

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M	C
Tetrachloroethylene	U	200	100	200	ug/l	100						
Toluene	U	200	100	200	ug/l	100	RMB	07/11/95	2037	68766	1	N
Trichloroethylene	U	200	100	200	ug/l	100						
Vinyl Acetate	U	1000	500	1000	ug/l	100						
Vinyl chloride	U	200	100	200	ug/l	100						
Xylenes (TOTAL)	U	2000	1000	2000	ug/l	100						
cis-1,3-Dichloropropylene	U	200	100	200	ug/l	100						
trans-1,3-Dichloropropylene	U	200	100	200	ug/l	100						

Surrogate Recovery	Test	Percent%	Acceptable Limits
1,2-Dichloroethane-d4	TCL VOLATILES	97.6	(81.0 - 114.)
Bromofluorobenzene	TCL VOLATILES	98.4	(86.6 - 109.)
Toluene-d8	TCL VOLATILES	97.6	(89.6 - 107.)

M = Method	Method-Description
M 1	EPA 8240 extended

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Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	
VA	00151	
WI	999857779	

CERTIFICATE OF ANALYSIS

Client: Bechtel
PO Box 350
Oak Ridge, Tennessee 37831-0350
Contact: Ms. Lori Keller
Project Description: Key West/KW

cc: BECH00195 Report Date: June 29, 1995

Sample ID : KW02176 WWT
Lab ID : 9506549-01
Matrix : GroundH2O
Date Collected : 06/27/95
Date Received : 06/28/95
Priority : Urgent
Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M	C
Volatile Organics												
Target Compound List Volatiles - 35 items												
1,1,1-Trichloroethane	U	2.00	1.00	2.00	ug/l	1.0	ECP	06/28/95	2251	68308	1	1
1,1,2,2-Tetrachloroethane	U	2.00	1.00	2.00	ug/l	1.0						
1,1,2-Trichloroethane	U	2.00	1.00	2.00	ug/l	1.0						
1,1-Dichloroethane	U	2.00	1.00	2.00	ug/l	1.0						
1,1-Dichloroethylene	U	2.00	1.00	2.00	ug/l	1.0						
1,2-Dichloroethane	U	2.00	1.00	2.00	ug/l	1.0						
1,2-Dichloropropane	U	2.00	1.00	2.00	ug/l	1.0						
1,2-cis-Dichloroethylene	E	234	2.00	2.00	ug/l	1.0						
1,2-trans-Dichloroethylene	E	437	1.00	2.00	ug/l	1.0						
2-Butanone	U	10.0	5.00	10.0	ug/l	1.0						
2-Hexanone	U	10.0	5.00	10.0	ug/l	1.0						
4-Methyl-2-pentanone	U	10.0	5.00	10.0	ug/l	1.0						
Acetone		63.0	5.00	10.0	ug/l	1.0						
Benzene	U	2.00	1.00	2.00	ug/l	1.0						
Bromoform	U	2.00	2.00	2.00	ug/l	1.0						
Carbon Disulfide	U	10.0	5.00	10.0	ug/l	1.0						
Carbon Tetrachloride	U	10.0	1.00	10.0	ug/l	1.0						
Chlorobenzene	U	2.00	1.00	2.00	ug/l	1.0						
Chlorodibromomethane	U	2.00	1.00	2.00	ug/l	1.0						
Chloroethane	U	2.00	1.00	2.00	ug/l	1.0						
Chloroform	U	2.00	1.00	2.00	ug/l	1.0						
Dichlorobromomethane	U	2.00	1.00	2.00	ug/l	1.0						
Ethylbenzene	U	2.00	1.00	2.00	ug/l	1.0						
Methyl Bromide	U	2.00	1.00	2.00	ug/l	1.0						
Methyl Chloride	U	2.00	1.00	2.00	ug/l	1.0						
Methylene Chloride	U	5.00	1.00	5.00	ug/l	1.0						
Styrene	U	10.0	5.00	10.0	ug/l	1.0						

GENERAL ENGINEERING LABORATORIES

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Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	
VA	00151	
WI	999887779	

CERTIFICATE OF ANALYSIS

Client: Bechtel
PO Box 350
Oak Ridge, Tennessee 37831-0350
Contact: Ms. Lori Keller
Project Description: Key West/KW

cc: BECH00195 Report Date: June 29, 1995

Sample ID : KW02176 WWT

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M	C
Tetrachloroethylene	U	2.00	1.00	2.00	ug/l	1.0						
Toluene	U	2.00	1.00	2.00	ug/l	1.0	ECP	06/28/95	2251	68308	1	1
Trichloroethylene	U	2.00	1.00	2.00	ug/l	1.0						
Vinyl Acetate	U	10.0	5.00	10.0	ug/l	1.0						
Vinyl chloride	U	2.00	1.00	2.00	ug/l	1.0						
Xylenes (TOTAL)	U	10.0	5.00	10.0	ug/l	1.0						
cis-1,3-Dichloropropylene	U	2.00	1.00	2.00	ug/l	1.0						
trans-1,3-Dichloropropylene	U	2.00	1.00	2.00	ug/l	1.0						

Surrogate Recovery	Test	Percent%	Acceptable Limits
1,2-Dichloroethane-d4	TCL VOLATILES	104.	(81.0 - 114.)
Bromofluorobenzene	TCL VOLATILES	100.	(86.6 - 109.)
Toluene-d8	TCL VOLATILES	97.6	(89.6 - 107.)

M = Method	Method-Description
M 1	EPA 8240 extended

C = Container	Lab. Container ID	Reference ID
C 1	9506549-01.02	KW0217603

GENERAL ENGINEERING LABORATORIES

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Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87451
NC	253	
SC	10120	10582
TN	02934	
VA	00151	
WI	99988779	

CERTIFICATE OF ANALYSIS

Client: Bechtel
PO Box 350
Oak Ridge, Tennessee 37831-0350
Contact: Ms. Lori Kaller
Project Description: Key West/KW

cc: BECH00195 Report Date: July 11, 1995

Sample ID : 9506549-01 dil kw02176 wwt
Lab ID : 9506549-07
Matrix : GroundH2O
Date Collected : 06/27/95
Date Received : 06/28/95
Priority : Urgent
Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M	C
Volatile Organics												
Target Compound List Volatiles - 35 items												
1,1,1-Trichloroethane	U	20.0	10.0	20.0	ug/l	10.	ECP	06/29/95	1644	68780	1	N
1,1,2,2-Tetrachloroethane	U	100	50.0	100	ug/l	10.						
1,1,2-Trichloroethane	U	20.0	10.0	20.0	ug/l	10.						
1,1-Dichloroethane	U	20.0	10.0	20.0	ug/l	10.						
1,1-Dichloroethylene	U	20.0	10.0	20.0	ug/l	10.						
1,2-Dichloroethane	U	20.0	10.0	20.0	ug/l	10.						
1,2-Dichloropropane	U	20.0	10.0	20.0	ug/l	10.						
1,2-cis-Dichloroethylene		261	20.0	20.0	ug/l	10.						
1,2-trans-Dichloroethylene		366	10.0	20.0	ug/l	10.						
2-Butanone	U	100	50.0	100	ug/l	10.						
2-Hexanone	U	100	50.0	100	ug/l	10.						
4-Methyl-2-pentanone	U	100	50.0	100	ug/l	10.						
Acetone		107	50.0	100	ug/l	10.						
Benzene	U	20.0	10.0	20.0	ug/l	10.						
Bromoform	U	20.0	20.0	20.0	ug/l	10.						
Carbon Disulfide	U	100	50.0	100	ug/l	10.						
Carbon Tetrachloride	U	20.0	10.0	20.0	ug/l	10.						
Chlorobenzene	U	20.0	10.0	20.0	ug/l	10.						
Chlorodibromomethane	U	20.0	10.0	20.0	ug/l	10.						
Chloroethane	U	20.0	10.0	20.0	ug/l	10.						
Chloroform	U	20.0	10.0	20.0	ug/l	10.						
Dichlorobromomethane	U	20.0	10.0	20.0	ug/l	10.						
Ethylbenzene	U	20.0	10.0	20.0	ug/l	10.						
Methyl Bromide	U	20.0	10.0	20.0	ug/l	10.						
Methyl Chloride	U	20.0	10.0	20.0	ug/l	10.						
Methylene Chloride	J	11.4	10.0	20.0	ug/l	10.						
Styrene	U	100	50.0	100	ug/l	10.						

GENERAL ENGINEERING LABORATORIES

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Laboratory Certifications

STATE	CHL	HPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	
VA	00151	
WI	99982779	

CERTIFICATE OF ANALYSIS

Client: Bechtel
PO Box 350
Oak Ridge, Tennessee 37831-0350
Contact: Ms. Lori Keller
Project Description: Key West/KW

cc: BECH00195 Report Date: July 11, 1995

Sample ID : 9506549-01 dil kw02176 wwt

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M	C
Tetrachloroethylene	U	20.0	10.0	20.0	ug/l	10.						
Toluene	U	20.0	10.0	20.0	ug/l	10.	ECP	06/29/95	1644	68780	1	N
Trichloroethylene	U	20.0	10.0	20.0	ug/l	10.						
Vinyl Acetate	U	100	50.0	100	ug/l	10.						
Vinyl chloride	U	20.0	10.0	20.0	ug/l	10.						
Xylenes (TOTAL)	U	200	100	200	ug/l	10.						
cis-1,3-Dichloropropylene	U	20.0	10.0	20.0	ug/l	10.						
trans-1,3-Dichloropropylene	U	20.0	10.0	20.0	ug/l	10.						

Surrogate Recovery	Test	Percent%	Acceptable Limits
1,2-Dichloroethane-d4	TCL VOLATILES	108.	(81.0 - 114.)
Bromofluorobenzene	TCL VOLATILES	101.	(86.6 - 109.)
Toluene-d8	TCL VOLATILES	95.2	(89.6 - 107.)

M = Method	Method-Description
M 1	EPA 8240 extended

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GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	
VA	00151	
WI	99988779	

CERTIFICATE OF ANALYSIS

Client: Bechtel
PO Box 350
Oak Ridge, Tennessee 37831-0350
Contact: Ms. Lori Keller
Project Description: Key West/KW

cc: BECH00195 Report Date: July 17, 1995

Sample ID : KW02177 GWT
Lab ID : 9506619-01
Matrix : GroundH2O
Date Collected : 06/28/95
Date Received : 06/30/95
Priority : Routine
Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M	C
Volatile Organics												
Naphthalene		10.8	1.50	2.00	ug/l	1.0	THL	07/12/95	1003	68697	1	1
Target Compound List Volatiles - 35 items												
1,1,1-Trichloroethane	X	2.00	1.00	2.00	ug/l	1.0	RMB	07/10/95	1949	68766	2	2
1,1,2,2-Tetrachloroethane	X	2.00	1.00	2.00	ug/l	1.0						
1,1,2-Trichloroethane	X	2.00	1.00	2.00	ug/l	1.0						
1,1-Dichloroethane	X	2.00	1.00	2.00	ug/l	1.0						
1,1-Dichloroethylene	X	2.00	1.00	2.00	ug/l	1.0						
1,2-Dichloroethane	X	2.00	1.00	2.00	ug/l	1.0						
1,2-Dichloropropane	X	2.00	1.00	2.00	ug/l	1.0						
1,2-cis-Dichloroethylene	X	2.00	1.00	2.00	ug/l	1.0						
1,2-trans-Dichloroethylene	X	2.00	1.00	2.00	ug/l	1.0						
2-Butanone	X	10.0	5.00	10.0	ug/l	1.0						
2-Hexanone	X	10.0	5.00	10.0	ug/l	1.0						
4-Methyl-2-pentanone	X	10.0	5.00	10.0	ug/l	1.0						
Acetone	X	10.0	5.00	10.0	ug/l	1.0						
Benzene	X	13.2	1.00	2.00	ug/l	1.0						
Bromoform	X	2.00	2.00	2.00	ug/l	1.0						
Carbon Disulfide	X	10.0	5.00	10.0	ug/l	1.0						
Carbon Tetrachloride	X	2.00	1.00	2.00	ug/l	1.0						
Chlorobenzene	X	2.00	1.00	2.00	ug/l	1.0						
Chlorodibromomethane	X	2.00	1.00	2.00	ug/l	1.0						
Chloroethane	X	2.00	1.00	2.00	ug/l	1.0						
Chloroform	X	2.00	1.00	2.00	ug/l	1.0						
Dichlorobromomethane	X	2.00	1.00	2.00	ug/l	1.0						
Ethylbenzene	X	2.00	1.00	2.00	ug/l	1.0						
Methyl Bromide	X	2.00	1.00	2.00	ug/l	1.0						
Methyl Chloride	X	2.00	1.00	2.00	ug/l	1.0						
Methylene Chloride	X	5.00	1.00	5.00	ug/l	1.0						

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	
VA	00151	
WI	99988779	

CERTIFICATE OF ANALYSIS

Client: Bechtel
PO Box 350
Oak Ridge, Tennessee 37831-0350
Contact: Ms. Lori Keller
Project Description: Key West/KW

cc: BECH00195 Report Date: July 17, 1995

Sample ID : KW02177 GWT

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M	C
Styrene	X	10.0	5.00	10.0	ug/l	1.0						
Tetrachloroethylene	X	2.00	1.00	2.00	ug/l	1.0	RMB	07/10/95	1949	68766	2	2
Toluene	X	2.00	1.00	2.00	ug/l	1.0						
Trichloroethylene	X	2.00	1.00	2.00	ug/l	1.0						
Vinyl Acetate	X	10.0	5.00	10.0	ug/l	1.0						
Vinyl chloride	X	2.00	1.00	2.00	ug/l	1.0						
Xylenes (TOTAL)	X	20.0	10.0	20.0	ug/l	1.0						
-1,3-Dichloropropylene	X	2.00	1.00	2.00	ug/l	1.0						
ans-1,3-Dichloropropylene	X	2.00	1.00	2.00	ug/l	1.0						
General Chemistry												
Total Rec. Petro. Hydrocarbons	U	1000	1000	1000	ug/l	1.0	MCM	07/03/95	1430	68454	3	3

Surrogate Recovery	Test	Percent%	Acceptable Limits
n-propylbenzene	NAP-GC	94.4	(52.6 - 155.)
1,2-Dichloroethane-d4	TCL VOLATILES	77.6*	(81.0 - 114.)
Bromofluorobenzene	TCL VOLATILES	99.2	(86.6 - 109.)
Toluene-d8	TCL VOLATILES	42.4*	(89.6 - 107.)

M = Method	Method-Description
M 1	EPA 8020
M 2	EPA 8240 extended
M 3	EPA 418.1

C = Container	Lab. Container ID	Reference ID
C 1	9506619-01.01	KW0217704
C 2	9506619-01.02	KW0217703
C 3	9506619-01.04	KW0217702

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	
VA	00151	
WI	99988779	

CERTIFICATE OF ANALYSIS

Client: Bechtel
PO Box 350
Oak Ridge, Tennessee 37831-0350
Contact: Ms. Lori Keller
Project Description: Key West/KW

cc: BECH00195 Report Date: July 17, 1995

Sample ID : 9506619-01 DL1 KW02177 GWT
Lab ID : 9506619-22
Matrix : GroundH2O
Date Collected : 06/28/95
Date Received : 06/30/95
Priority : Routine
Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M	C
Volatile Organics												
Target Compound List Volatiles - 35 items												
1,1,1-Trichloroethane	U	50.0	25.0	50.0	ug/l	25.	RMB	07/11/95	1644	68766	1	N
1,1,2,2-Tetrachloroethane	U	50.0	25.0	50.0	ug/l	25.						
1,1,2-Trichloroethane	U	50.0	25.0	50.0	ug/l	25.						
1,1-Dichloroethane	U	50.0	25.0	50.0	ug/l	25.						
1,1-Dichloroethylene	U	50.0	25.0	50.0	ug/l	25.						
1,2-Dichloroethane	U	50.0	25.0	50.0	ug/l	25.						
1,2-Dichloropropane	U	50.0	25.0	50.0	ug/l	25.						
1,2-cis-Dichloroethylene	U	50.0	25.0	50.0	ug/l	25.						
1,2-trans-Dichloroethylene	U	50.0	25.0	50.0	ug/l	25.						
2-Butanone	U	250	125	250	ug/l	25.						
2-Hexanone	U	250	125	250	ug/l	25.						
4-Methyl-2-pentanone	U	250	125	250	ug/l	25.						
Acetone	U	250	125	250	ug/l	25.						
Benzene	U	50.0	25.0	50.0	ug/l	25.						
Bromoform	U	50.0	50.0	50.0	ug/l	25.						
Carbon Disulfide	U	250	125	250	ug/l	25.						
Carbon Tetrachloride	U	50.0	25.0	50.0	ug/l	25.						
Chlorobenzene	U	50.0	25.0	50.0	ug/l	25.						
Chlorodibromomethane	U	50.0	25.0	50.0	ug/l	25.						
Chloroethane	U	50.0	25.0	50.0	ug/l	25.						
Chloroform	U	50.0	25.0	50.0	ug/l	25.						
Dichlorobromomethane	U	50.0	25.0	50.0	ug/l	25.						
Ethylbenzene	U	50.0	25.0	50.0	ug/l	25.						
Methyl Bromide	U	50.0	25.0	50.0	ug/l	25.						
Methyl Chloride	U	50.0	25.0	50.0	ug/l	25.						
Methylene Chloride	JBD	20.7	25.0	125	ug/l	25.						
Styrene	U	250	125	250	ug/l	25.						

GENERAL ENGINEERING LABORATORIES

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Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	
VA	00151	
WI	99988779	

CERTIFICATE OF ANALYSIS

Client: Bechtel
PO Box 350
Oak Ridge, Tennessee 37831-0350
Contact: Ms. Lori Keller
Project Description: Key West/KW

cc: BECH00195 Report Date: July 17, 1995

Sample ID : 9506619-01 DL1 KW02177 GWT

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M	C
Tetrachloroethylene	U	50.0	25.0	50.0	ug/l	25.						
Toluene	U	50.0	25.0	50.0	ug/l	25.	RMB	07/11/95	1644	68766	1	N
Trichloroethylene	U	50.0	25.0	50.0	ug/l	25.						
Vinyl Acetate	U	250	125	250	ug/l	25.						
Vinyl chloride	U	50.0	25.0	50.0	ug/l	25.						
Xylenes (TOTAL)	U	500	250	500	ug/l	25.						
cis-1,3-Dichloropropylene	U	50.0	25.0	50.0	ug/l	25.						
ıs-1,3-Dichloropropylene	U	50.0	25.0	50.0	ug/l	25.						

Surrogate Recovery	Test	Percent%	Acceptable Limits
1,2-Dichloroethane-d4	TCL VOLATILES	96.0	(81.0 - 114.)
Bromofluorobenzene	TCL VOLATILES	98.4	(86.6 - 109.)
Toluene-d8	TCL VOLATILES	97.2	(89.6 - 107.)

M = Method	Method-Description
M 1	EPA 8240 extended

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	
VA	00151	
WI	99988779	

CERTIFICATE OF ANALYSIS

Client: Bechtel
PO Box 350
Oak Ridge, Tennessee 37831-0350
Contact: Ms. Lori Keller
Project Description: Key West/KW

cc: BECH00195 Report Date: July 17, 1995

Sample ID : KW02178 OFW
Lab ID : 9506619-02
Matrix : GroundH2O
Date Collected : 06/28/95
Date Received : 06/30/95
Priority : Routine
Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M	C
Volatile Organics												
Naphthalene	U	2.00	1.50	2.00	ug/l	1.0	THL	07/12/95	1752	68697	1	1
Target Compound List Volatiles - 35 items												
1,1,1-Trichloroethane	X	2.00	1.00	2.00	ug/l	1.0	RMB	07/10/95	2022	68766	2	2
1,1,2,2-Tetrachloroethane	X	2.00	1.00	2.00	ug/l	1.0						
1,1,2-Trichloroethane	X	2.00	1.00	2.00	ug/l	1.0						
1,1-Dichloroethane	X	2.00	1.00	2.00	ug/l	1.0						
1,1-Dichloroethylene	X	2.00	1.00	2.00	ug/l	1.0						
1,2-Dichloroethane	X	2.00	1.00	2.00	ug/l	1.0						
1,2-Dichloropropane	X	2.00	1.00	2.00	ug/l	1.0						
1,2-cis-Dichloroethylene	X	2.00	1.00	2.00	ug/l	1.0						
1,2-trans-Dichloroethylene	X	2.00	1.00	2.00	ug/l	1.0						
2-Butanone	X	10.0	5.00	10.0	ug/l	1.0						
2-Hexanone	X	10.0	5.00	10.0	ug/l	1.0						
4-Methyl-2-pentanone	X	10.0	5.00	10.0	ug/l	1.0						
Acetone	X	10.0	5.00	10.0	ug/l	1.0						
Benzene	X	2.00	1.00	2.00	ug/l	1.0						
Bromoform	X	2.00	2.00	2.00	ug/l	1.0						
Carbon Disulfide	X	10.0	5.00	10.0	ug/l	1.0						
Carbon Tetrachloride	X	2.00	1.00	2.00	ug/l	1.0						
Chlorobenzene	X	2.00	1.00	2.00	ug/l	1.0						
Chlorodibromomethane	X	2.00	1.00	2.00	ug/l	1.0						
Chloroethane	X	2.00	1.00	2.00	ug/l	1.0						
Chloroform	X	2.00	1.00	2.00	ug/l	1.0						
Dichlorobromomethane	X	2.00	1.00	2.00	ug/l	1.0						
Ethylbenzene	X	2.00	1.00	2.00	ug/l	1.0						
Methyl Bromide	X	2.00	1.00	2.00	ug/l	1.0						
Methyl Chloride	X	2.00	1.00	2.00	ug/l	1.0						
Methylene Chloride	X	5.00	1.00	5.00	ug/l	1.0						

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	
VA	00151	
WI	99988779	

CERTIFICATE OF ANALYSIS

Client: Bechtel
PO Box 350
Oak Ridge, Tennessee 37831-0350
Contact: Ms. Lori Keller
Project Description: Key West/KW

cc: BECH00195 Report Date: July 17, 1995

Sample ID : KW02178 OFW

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M	C
Styrene	X	10.0	5.00	10.0	ug/l	1.0						
Tetrachloroethylene	X	2.00	1.00	2.00	ug/l	1.0	RMB	07/10/95	2022	68766.	2.	2
Toluene	X	2.00	1.00	2.00	ug/l	1.0						
Trichloroethylene	X	2.00	1.00	2.00	ug/l	1.0						
Vinyl Acetate	X	10.0	5.00	10.0	ug/l	1.0						
Vinyl chloride	X	2.00	1.00	2.00	ug/l	1.0						
Xylenes (TOTAL)	X	20.0	10.0	20.0	ug/l	1.0						
-1,3-Dichloropropylene	X	2.00	1.00	2.00	ug/l	1.0						
ns-1,3-Dichloropropylene	X	2.00	1.00	2.00	ug/l	1.0						

Surrogate Recovery	Test	Percent%	Acceptable Limits
n-propylbenzene	NAP-GC	96.6	(52.6 - 155.)
1,2-Dichloroethane-d4	TCL VOLATILES	0.00*	(81.0 - 114.)
Bromofluorobenzene	TCL VOLATILES	86.0*	(86.6 - 109.)
Toluene-d8	TCL VOLATILES	44.0*	(89.6 - 107.)

M = Method	Method-Description
M 1	EPA 8020
M 2	EPA 8240 extended

C = Container	Lab. Container ID	Reference ID
C 1	9506619-02.03	KW0217803
C 2	9506619-02.01	KW0217802

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	
VA	00151	
WI	99988779	

CERTIFICATE OF ANALYSIS

Client: Bechtel
PO Box 350
Oak Ridge, Tennessee 37831-0350
Contact: Ms. Lori Keller
Project Description: Key West/KW

cc: BECH00195 Report Date: July 17, 1995

Sample ID : 9506619-02 DL1 KW02178 GWT
Lab ID : 9506619-27
Matrix : GroundH2O
Date Collected : 06/28/95
Date Received : 06/30/95
Priority : Routine
Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M	C
Volatile Organics												
Target Compound List Volatiles - 35 items												
1,1,1-Trichloroethane	U	50.0	25.0	50.0	ug/l	25.	RMB	07/11/95	1930	68766	1	N
1,1,2,2-Tetrachloroethane	U	50.0	25.0	50.0	ug/l	25.						
1,1,2-Trichloroethane	U	50.0	25.0	50.0	ug/l	25.						
1,1-Dichloroethane	U	50.0	25.0	50.0	ug/l	25.						
1,1-Dichloroethylene	U	50.0	25.0	50.0	ug/l	25.						
1,2-Dichloroethane	U	50.0	25.0	50.0	ug/l	25.						
1,2-Dichloropropane	U	50.0	25.0	50.0	ug/l	25.						
1,2-cis-Dichloroethylene	U	50.0	25.0	50.0	ug/l	25.						
1,2-trans-Dichloroethylene	U	50.0	25.0	50.0	ug/l	25.						
2-Butanone	U	250	125	250	ug/l	25.						
2-Hexanone	U	250	125	250	ug/l	25.						
4-Methyl-2-pentanone	U	250	125	250	ug/l	25.						
Acetone	U	250	125	250	ug/l	25.						
Benzene	U	50.0	25.0	50.0	ug/l	25.						
Bromoform	U	50.0	50.0	50.0	ug/l	25.						
Carbon Disulfide	U	250	125	250	ug/l	25.						
Carbon Tetrachloride	U	50.0	25.0	50.0	ug/l	25.						
Chlorobenzene	U	50.0	25.0	50.0	ug/l	25.						
Chlorodibromomethane	U	50.0	25.0	50.0	ug/l	25.						
Chloroethane	U	50.0	25.0	50.0	ug/l	25.						
Chloroform	JD	24.1	25.0	50.0	ug/l	25.						
Dichlorobromomethane	U	50.0	25.0	50.0	ug/l	25.						
Ethylbenzene	U	50.0	25.0	50.0	ug/l	25.						
Methyl Bromide	U	50.0	25.0	50.0	ug/l	25.						
Methyl Chloride	U	50.0	25.0	50.0	ug/l	25.						
Methylene Chloride	JBD	20.2	25.0	125	ug/l	25.						
Styrene	U	250	125	250	ug/l	25.						

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	
VA	00151	
WI	99988779	

CERTIFICATE OF ANALYSIS

Client: Bechtel
PO Box 350
Oak Ridge, Tennessee 37831-0350
Contact: Ms. Lori Keller
Project Description: Key West/KW

cc: BECH00195 Report Date: July 17, 1995

Sample ID : 9506619-02 DL1 KW02178 GWT

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M	C
Tetrachloroethylene	U	50.0	25.0	50.0	ug/l	25.						
Toluene	U	50.0	25.0	50.0	ug/l	25.	RMB	07/11/95	1930	68766	1	N
Trichloroethylene	U	50.0	25.0	50.0	ug/l	25.						
Vinyl Acetate	U	250	125	250	ug/l	25.						
Vinyl chloride	U	50.0	25.0	50.0	ug/l	25.						
Xylenes (TOTAL)	U	500	250	500	ug/l	25.						
cis-1,3-Dichloropropylene	U	50.0	25.0	50.0	ug/l	25.						
ns-1,3-Dichloropropylene	U	50.0	25.0	50.0	ug/l	25.						

Surrogate Recovery	Test	Percent%	Acceptable Limits
1,2-Dichloroethane-d4	TCL VOLATILES	97.6	(81.0 - 114.)
Bromofluorobenzene	TCL VOLATILES	98.0	(86.6 - 109.)
Toluene-d8	TCL VOLATILES	97.2	(89.6 - 107.)

M = Method	Method-Description
M 1	EPA 8240 extended

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	
VA	00151	
WI	99988779	

CERTIFICATE OF ANALYSIS

Client: Bechtel
PO Box 350
Oak Ridge, Tennessee 37831-0350
Contact: Ms. Lori Keller
Project Description: Key West/KW

cc: BECH00195 Report Date: July 17, 1995

Sample ID : KW02179 GWT
Lab ID : 9506619-03
Matrix : GroundH2O
Date Collected : 06/28/95
Date Received : 06/30/95
Priority : Routine
Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M	C
Volatile Organics												
Naphthalene	U	2.00	1.50	2.00	ug/l	1.0	THL	07/12/95	1103	68697	1	1
Target Compound List Volatiles - 35 items												
1,1,1-Trichloroethane	X	2.00	1.00	2.00	ug/l	1.0	RMB	07/10/95	2055	68766	2	2
1,1,2,2-Tetrachloroethane	X	2.00	1.00	2.00	ug/l	1.0						
1,1,2-Trichloroethane	X	2.00	1.00	2.00	ug/l	1.0						
1,1-Dichloroethane	X	2.00	1.00	2.00	ug/l	1.0						
1,1-Dichloroethylene	X	2.00	1.00	2.00	ug/l	1.0						
1,2-Dichloroethane	X	2.00	1.00	2.00	ug/l	1.0						
1,2-Dichloropropane	X	2.00	1.00	2.00	ug/l	1.0						
1,2-cis-Dichloroethylene	X	2.00	1.00	2.00	ug/l	1.0						
1,2-trans-Dichloroethylene	X	2.00	1.00	2.00	ug/l	1.0						
2-Butanone	X	10.0	5.00	10.0	ug/l	1.0						
2-Hexanone	X	10.0	5.00	10.0	ug/l	1.0						
4-Methyl-2-pentanone	X	10.0	5.00	10.0	ug/l	1.0						
Acetone	X	10.0	5.00	10.0	ug/l	1.0						
Benzene	X	2.00	1.00	2.00	ug/l	1.0						
Bromoform	X	2.00	2.00	2.00	ug/l	1.0						
Carbon Disulfide	X	10.0	5.00	10.0	ug/l	1.0						
Carbon Tetrachloride	X	2.00	1.00	2.00	ug/l	1.0						
Chlorobenzene	X	2.00	1.00	2.00	ug/l	1.0						
Chlorodibromomethane	X	2.00	1.00	2.00	ug/l	1.0						
Chloroethane	X	2.00	1.00	2.00	ug/l	1.0						
Chloroform	X	2.00	1.00	2.00	ug/l	1.0						
Dichlorobromomethane	X	2.00	1.00	2.00	ug/l	1.0						
Ethylbenzene	X	2.00	1.00	2.00	ug/l	1.0						
Methyl Bromide	X	2.00	1.00	2.00	ug/l	1.0						
Methyl Chloride	X	2.00	1.00	2.00	ug/l	1.0						
Methylene Chloride	X	5.00	1.00	5.00	ug/l	1.0						

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	
VA	00151	
WI	99988779	

CERTIFICATE OF ANALYSIS

Client: Bechtel
PO Box 350
Oak Ridge, Tennessee 37831-0350
Contact: Ms. Lori Keller
Project Description: Key West/KW

cc: BECH00195 Report Date: July 17, 1995

Sample ID : KW02179 GWT

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M	C
Styrene	X	10.0	5.00	10.0	ug/l	1.0						
Tetrachloroethylene	X	2.00	1.00	2.00	ug/l	1.0	RMB	07/10/95	2055	68766	2	2
Toluene	X	2.00	1.00	2.00	ug/l	1.0						
Trichloroethylene	X	2.00	1.00	2.00	ug/l	1.0						
Vinyl Acetate	X	10.0	5.00	10.0	ug/l	1.0						
Vinyl chloride	X	2.00	1.00	2.00	ug/l	1.0						
Xylenes (TOTAL)	X	20.0	10.0	20.0	ug/l	1.0						
s-1,3-Dichloropropylene	X	2.00	1.00	2.00	ug/l	1.0						
ans-1,3-Dichloropropylene	X	2.00	1.00	2.00	ug/l	1.0						
General Chemistry												
Total Rec. Petro. Hydrocarbons	U	1000	1000	1000	ug/l	1.0	CAM	07/11/95	1600	68808	3	3

Surrogate Recovery	Test	Percent%	Acceptable Limits
n-propylbenzene	NAP-GC	96.8	(52.6 - 155.)
1,2-Dichloroethane-d4	TCL VOLATILES	0.00*	(81.0 - 114.)
Bromofluorobenzene	TCL VOLATILES	81.6*	(86.6 - 109.)
Toluene-d8	TCL VOLATILES	61.6*	(89.6 - 107.)

M = Method	Method-Description
M 1	EPA 8020
M 2	EPA 8240 extended
M 3	EPA 418.1

C = Container	Lab. Container ID	Reference ID
C 1	9506619-03.01	KW0217903
C 2	9506619-03.02	KW0217904
C 3	9506619-03.04	KW0217902

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	
VA	00151	
WI	99988779	

CERTIFICATE OF ANALYSIS

Client: Bechtel
PO Box 350
Oak Ridge, Tennessee 37831-0350
Contact: Ms. Lori Keller
Project Description: Key West/KW

c: BECH00195 Report Date: July 17, 1995

Sample ID : 9506619-03 DL1 KW02179 GWT
Lab ID : 9506619-23
Matrix : GroundH2O
Date Collected : 06/28/95
Date Received : 06/30/95
Priority : Routine
Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M	C
Volatile Organics												
Target Compound List Volatiles - 35 items												
1,1,1-Trichloroethane	U	50.0	25.0	50.0	ug/l	25.	RMB	07/11/95	1717	68766	1	N
1,1,2,2-Tetrachloroethane	U	50.0	25.0	50.0	ug/l	25.						
1,1,2-Trichloroethane	U	50.0	25.0	50.0	ug/l	25.						
1,1-Dichloroethane	U	50.0	25.0	50.0	ug/l	25.						
1,1-Dichloroethylene	U	50.0	25.0	50.0	ug/l	25.						
1,2-Dichloroethane	U	50.0	25.0	50.0	ug/l	25.						
1,2-Dichloropropane	U	50.0	25.0	50.0	ug/l	25.						
1,2-cis-Dichloroethylene	U	50.0	25.0	50.0	ug/l	25.						
1,2-trans-Dichloroethylene	U	50.0	25.0	50.0	ug/l	25.						
2-Butanone	U	250	125	250	ug/l	25.						
2-Hexanone	U	250	125	250	ug/l	25.						
4-Methyl-2-pentanone	U	250	125	250	ug/l	25.						
Acetone	U	250	125	250	ug/l	25.						
Benzene	U	50.0	25.0	50.0	ug/l	25.						
Bromoform	U	50.0	50.0	50.0	ug/l	25.						
Carbon Disulfide	U	250	125	250	ug/l	25.						
Carbon Tetrachloride	U	50.0	25.0	50.0	ug/l	25.						
Chlorobenzene	U	50.0	25.0	50.0	ug/l	25.						
Chlorodibromomethane	U	50.0	25.0	50.0	ug/l	25.						
Chloroethane	U	50.0	25.0	50.0	ug/l	25.						
Chloroform	U	50.0	25.0	50.0	ug/l	25.						
Dichlorobromomethane	U	50.0	25.0	50.0	ug/l	25.						
Ethylbenzene	U	50.0	25.0	50.0	ug/l	25.						
Methyl Bromide	U	50.0	25.0	50.0	ug/l	25.						
Methyl Chloride	U	50.0	25.0	50.0	ug/l	25.						
Methylene Chloride	JBD	20.0	25.0	125	ug/l	25.						
Styrene	U	250	125	250	ug/l	25.						

GENERAL ENGINEERING LABORATORIES

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Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	
VA	00151	
WI	99988779	

CERTIFICATE OF ANALYSIS

Client: Bechtel
PO Box 350
Oak Ridge, Tennessee 37831-0350
Contact: Ms. Lori Keller
Project Description: Key West/KW

cc: BECH00195 Report Date: July 17, 1995

Sample ID : 9506619-03 DL1 KW02179 GWT

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M	C
Tetrachloroethylene	U	50.0	25.0	50.0	ug/l	25.						
Toluene	U	50.0	25.0	50.0	ug/l	25.	RMB	07/11/95	1717	68766	1	N
Trichloroethylene	U	50.0	25.0	50.0	ug/l	25.						
Vinyl Acetate	U	250	125	250	ug/l	25.						
Vinyl chloride	U	50.0	25.0	50.0	ug/l	25.						
Xylenes (TOTAL)	U	500	250	500	ug/l	25.						
cis-1,3-Dichloropropylene	U	50.0	25.0	50.0	ug/l	25.						
trans-1,3-Dichloropropylene	U	50.0	25.0	50.0	ug/l	25.						

Surrogate Recovery	Test	Percent%	Acceptable Limits
1,2-Dichloroethane-d4	TCL VOLATILES	99.2	(81.0 - 114.)
Bromofluorobenzene	TCL VOLATILES	99.2	(86.6 - 109.)
Toluene-d8	TCL VOLATILES	99.6	(89.6 - 107.)

M = Method	Method-Description
M 1	EPA 8240 extended

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	
VA	00151	
WI	99988779	

CERTIFICATE OF ANALYSIS

Client: Bechtel
PO Box 350
Oak Ridge, Tennessee 37831-0350
Contact: Ms. Lori Keller
Project Description: Key West/KW

cc: BECH00195 Report Date: July 17, 1995

Sample ID : 9506619-03 DL1 KW02179 GWT

M = Method	Method-Description

This data report has been prepared and reviewed in accordance with General Engineering Laboratories standard operating procedures. Please direct any questions to your Project Manager, Valerie Davis at (803) 769-7391.

Analytical Report Specialist

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	
VA	00151	
WI	99988779	

CERTIFICATE OF ANALYSIS

Client: Bechtel
PO Box 350
Oak Ridge, Tennessee 37831-0350
Contact: Ms. Lori Keller
Project Description: Key West/KW

cc: BECH00195 Report Date: July 17, 1995

Sample ID : KW02180 GWT
Lab ID : 9506619-04
Matrix : GroundH2O
Date Collected : 06/28/95
Date Received : 06/30/95
Priority : Routine
Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M	C
Volatile Organics												
phthalene		66.1	1.50	2.00	ug/l	1.0	THL	07/12/95	1134	68697	1	1
rget Compound List Volatiles - 35 items												
1,1,1-Trichloroethane	X	2.00	1.00	2.00	ug/l	1.0	RMB	07/10/95	2128	68766	2	2
1,1,2,2-Tetrachloroethane	X	2.00	1.00	2.00	ug/l	1.0						
1,1,2-Trichloroethane	X	2.00	1.00	2.00	ug/l	1.0						
1,1-Dichloroethane	X	2.00	1.00	2.00	ug/l	1.0						
1,1-Dichloroethylene	X	2.00	1.00	2.00	ug/l	1.0						
1,2-Dichloroethane	X	2.00	1.00	2.00	ug/l	1.0						
1,2-Dichloropropane	X	2.00	1.00	2.00	ug/l	1.0						
1,2-cis-Dichloroethylene	X	2.00	1.00	2.00	ug/l	1.0						
1,2-trans-Dichloroethylene	X	2.00	1.00	2.00	ug/l	1.0						
2-Butanone	X	10.0	5.00	10.0	ug/l	1.0						
2-Hexanone	X	10.0	5.00	10.0	ug/l	1.0						
4-Methyl-2-pentanone	X	10.0	5.00	10.0	ug/l	1.0						
Acetone	X	10.0	5.00	10.0	ug/l	1.0						
Benzene	X	2.00	1.00	2.00	ug/l	1.0						
Bromoform	X	2.00	2.00	2.00	ug/l	1.0						
Carbon Disulfide	X	10.0	5.00	10.0	ug/l	1.0						
Carbon Tetrachloride	X	2.00	1.00	2.00	ug/l	1.0						
Chlorobenzene	X	2.00	1.00	2.00	ug/l	1.0						
Chlorodibromomethane	X	2.00	1.00	2.00	ug/l	1.0						
Chloroethane	X	2.00	1.00	2.00	ug/l	1.0						
Chloroform	X	2.00	1.00	2.00	ug/l	1.0						
Dichlorobromomethane	X	2.00	1.00	2.00	ug/l	1.0						
Ethylbenzene	X	2.00	1.00	2.00	ug/l	1.0						
ethyl Bromide	X	2.00	1.00	2.00	ug/l	1.0						
ethyl Chloride	X	2.00	1.00	2.00	ug/l	1.0						
Methylene Chloride	X	5.00	1.00	5.00	ug/l	1.0						

GENERAL ENGINEERING LABORATORIES

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Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	
VA	00151	
WI	99988779	

CERTIFICATE OF ANALYSIS

Client: Bechtel
PO Box 350
Oak Ridge, Tennessee 37831-0350
Contact: Ms. Lori Keller
Project Description: Key West/KW

cc: BECH00195 Report Date: July 17, 1995

Sample ID : KW02180 GWT

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M	C
Styrene	X	10.0	5.00	10.0	ug/l	1.0						
Tetrachloroethylene	X	2.00	1.00	2.00	ug/l	1.0	RMB	07/10/95	2128	68766	2	2
Toluene	X	2.00	1.00	2.00	ug/l	1.0						
Trichloroethylene	X	2.00	1.00	2.00	ug/l	1.0						
Vinyl Acetate	X	10.0	5.00	10.0	ug/l	1.0						
Vinyl chloride	X	2.00	1.00	2.00	ug/l	1.0						
Xylenes (TOTAL)	JX	6.41	10.0	20.0	ug/l	1.0						
cis-1,3-Dichloropropylene	X	2.00	1.00	2.00	ug/l	1.0						
trans-1,3-Dichloropropylene	X	2.00	1.00	2.00	ug/l	1.0						
General Chemistry												
Total Rec. Petro. Hydrocarbons	U	1000	1000	1000	ug/l	1.0	CAM	07/11/95	1600	68808	3	3

Surrogate Recovery	Test	Percent%	Acceptable Limits
n-propylbenzene	NAP-GC	105.	(52.6 - 155.)
1,2-Dichloroethane-d4	TCL VOLATILES	77.2*	(81.0 - 114.)
Bromofluorobenzene	TCL VOLATILES	83.6*	(86.6 - 109.)
Toluene-d8	TCL VOLATILES	78.4*	(89.6 - 107.)

M = Method	Method-Description
M 1	EPA 8020
M 2	EPA 8240 extended
M 3	EPA 418.1

C = Container	Lab. Container ID	Reference ID
C 1	9506619-04.03	KW0218003
C 2	9506619-04.02	KW0218004
C 3	9506619-04.04	KW0218001

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	
VA	00151	
WI	99988779	

CERTIFICATE OF ANALYSIS

Client: Bechtel
PO Box 350
Oak Ridge, Tennessee 37831-0350
Contact: Ms. Lori Keller
Project Description: Key West/KW

cc: BECH00195 Report Date: July 17, 1995

Sample ID	: 9506619-04 DL1 KW02180 GWT
Lab ID	: 9506619-24
Matrix	: GroundH2O
Date Collected	: 06/28/95
Date Received	: 06/30/95
Priority	: Routine
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M	C
Volatile Organics												
rget Compound List Volatiles - 35 items												
,1,1-Trichloroethane	U	50.0	25.0	50.0	ug/l	25.	RMB	07/11/95	1751	68766	1	N
1,1,2,2-Tetrachloroethane	U	50.0	25.0	50.0	ug/l	25.						
1,1,2-Trichloroethane	U	50.0	25.0	50.0	ug/l	25.						
1,1-Dichloroethane	U	50.0	25.0	50.0	ug/l	25.						
1,1-Dichloroethylene	U	50.0	25.0	50.0	ug/l	25.						
1,2-Dichloroethane	U	50.0	25.0	50.0	ug/l	25.						
1,2-Dichloropropane	U	50.0	25.0	50.0	ug/l	25.						
1,2-cis-Dichloroethylene	U	50.0	25.0	50.0	ug/l	25.						
1,2-trans-Dichloroethylene	U	50.0	25.0	50.0	ug/l	25.						
2-Butanone	U	250	125	250	ug/l	25.						
2-Hexanone	U	250	125	250	ug/l	25.						
4-Methyl-2-pentanone	U	250	125	250	ug/l	25.						
Acetone	U	250	125	250	ug/l	25.						
Benzene	U	50.0	25.0	50.0	ug/l	25.						
Bromoform	U	50.0	50.0	50.0	ug/l	25.						
Carbon Disulfide	U	250	125	250	ug/l	25.						
Carbon Tetrachloride	U	50.0	25.0	50.0	ug/l	25.						
Chlorobenzene	U	50.0	25.0	50.0	ug/l	25.						
Chlorodibromomethane	U	50.0	25.0	50.0	ug/l	25.						
Chloroethane	U	50.0	25.0	50.0	ug/l	25.						
Chloroform	U	50.0	25.0	50.0	ug/l	25.						
Dichlorobromomethane	U	50.0	25.0	50.0	ug/l	25.						
Ethylbenzene	U	50.0	25.0	50.0	ug/l	25.						
Methyl Bromide	U	50.0	25.0	50.0	ug/l	25.						
Methyl Chloride	U	50.0	25.0	50.0	ug/l	25.						
ethylene Chloride	JBD	21.0	25.0	125	ug/l	25.						
Styrene	U	250	125	250	ug/l	25.						

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	
VA	00151	
WI	99988779	

CERTIFICATE OF ANALYSIS

Client: Bechtel
PO Box 350
Oak Ridge, Tennessee 37831-0350
Contact: Ms. Lori Keller
Project Description: Key West/KW

cc: BECH00195 Report Date: July 17, 1995

Sample ID : 9506619-04 DL1 KW02180 GWT

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M	C
Tetrachloroethylene	U	50.0	25.0	50.0	ug/l	25.						
Toluene	U	50.0	25.0	50.0	ug/l	25.	RMB	07/11/95	1751	68766	1	N
Trichloroethylene	U	50.0	25.0	50.0	ug/l	25.						
Vinyl Acetate	U	250	125	250	ug/l	25.						
Vinyl chloride	U	50.0	25.0	50.0	ug/l	25.						
Xylenes (TOTAL)	U	500	250	500	ug/l	25.						
cis-1,3-Dichloropropylene	U	50.0	25.0	50.0	ug/l	25.						
trans-1,3-Dichloropropylene	U	50.0	25.0	50.0	ug/l	25.						

Surrogate Recovery	Test	Percent%	Acceptable Limits
1,2-Dichloroethane-d4	TCL VOLATILES	98.4	(81.0 - 114.)
Bromofluorobenzene	TCL VOLATILES	99.6	(86.6 - 109.)
Toluene-d8	TCL VOLATILES	99.6	(89.6 - 107.)

M = Method	Method-Description
M 1	EPA 8240 extended

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	
VA	00151	
WI	99988779	

CERTIFICATE OF ANALYSIS

Client: Bechtel
PO Box 350
Oak Ridge, Tennessee 37831-0350
Contact: Ms. Lori Keller
Project Description: Key West/KW

cc: BECH00195 Report Date: July 17, 1995

Sample ID	: KW02181 GWT
Lab ID	: 9506619-05
Matrix	: GroundH2O
Date Collected	: 06/28/95
Date Received	: 06/30/95
Priority	: Routine
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M	C
Volatile Organics												
...phthalene		69.0	1.50	2.00	ug/l	1.0	THL	07/12/95	1204	68697	1	1
...rget Compound List Volatiles - 35 items												
1,1,1-Trichloroethane	X	2.00	1.00	2.00	ug/l	1.0	RMB	07/10/95	2200	68766	2	2
1,1,2,2-Tetrachloroethane	X	2.00	1.00	2.00	ug/l	1.0						
1,1,2-Trichloroethane	X	2.00	1.00	2.00	ug/l	1.0						
1,1-Dichloroethane	X	2.00	1.00	2.00	ug/l	1.0						
1,1-Dichloroethylene	X	2.00	1.00	2.00	ug/l	1.0						
1,2-Dichloroethane	X	2.00	1.00	2.00	ug/l	1.0						
1,2-Dichloropropane	X	2.00	1.00	2.00	ug/l	1.0						
1,2-cis-Dichloroethylene	X	2.00	1.00	2.00	ug/l	1.0						
1,2-trans-Dichloroethylene	X	2.00	1.00	2.00	ug/l	1.0						
2-Butanone	X	10.0	5.00	10.0	ug/l	1.0						
2-Hexanone	X	10.0	5.00	10.0	ug/l	1.0						
4-Methyl-2-pentanone	X	10.0	5.00	10.0	ug/l	1.0						
Acetone	X	10.0	5.00	10.0	ug/l	1.0						
Benzene	X	2.00	1.00	2.00	ug/l	1.0						
Bromoform	X	2.00	2.00	2.00	ug/l	1.0						
Carbon Disulfide	X	10.0	5.00	10.0	ug/l	1.0						
Carbon Tetrachloride	X	2.00	1.00	2.00	ug/l	1.0						
Chlorobenzene	X	2.00	1.00	2.00	ug/l	1.0						
Chlorodibromomethane	X	2.00	1.00	2.00	ug/l	1.0						
Chloroethane	X	2.00	1.00	2.00	ug/l	1.0						
Chloroform	X	2.00	1.00	2.00	ug/l	1.0						
Dichlorobromomethane	X	2.00	1.00	2.00	ug/l	1.0						
Ethylbenzene	X	6.05	1.00	2.00	ug/l	1.0						
...ethyl Bromide	X	2.00	1.00	2.00	ug/l	1.0						
...thyl Chloride	X	2.00	1.00	2.00	ug/l	1.0						
Methylene Chloride	X	5.00	1.00	5.00	ug/l	1.0						

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	
VA	00151	
WI	99988779	

CERTIFICATE OF ANALYSIS

Client: Bechtel
PO Box 350
Oak Ridge, Tennessee 37831-0350
Contact: Ms. Lori Keller
Project Description: Key West/KW

cc: BECH00195 Report Date: July 17, 1995

Sample ID : KW02181 GWT

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M	C
Styrene	X	10.0	5.00	10.0	ug/l	1.0						
Tetrachloroethylene	X	2.00	1.00	2.00	ug/l	1.0	RMB	07/10/95	2200	68766	2	2
Toluene	X	2.00	1.00	2.00	ug/l	1.0						
Trichloroethylene	X	2.00	1.00	2.00	ug/l	1.0						
Vinyl Acetate	X	10.0	5.00	10.0	ug/l	1.0						
Vinyl chloride	X	2.00	1.00	2.00	ug/l	1.0						
Xylenes (TOTAL)	X	20.0	10.0	20.0	ug/l	1.0						
cis-1,3-Dichloropropylene	X	2.00	1.00	2.00	ug/l	1.0						
trans-1,3-Dichloropropylene	X	2.00	1.00	2.00	ug/l	1.0						

Surrogate Recovery	Test	Percent%	Acceptable Limits
n-propylbenzene	NAP-GC	103.	(52.6 - 155.)
1,2-Dichloroethane-d4	TCL VOLATILES	72.8*	(81.0 - 114.)
Bromofluorobenzene	TCL VOLATILES	84.0*	(86.6 - 109.)
Toluene-d8	TCL VOLATILES	84.0*	(89.6 - 107.)

M = Method	Method-Description
M 1	EPA 8020
M 2	EPA 8240 extended

C = Container	Lab. Container ID	Reference ID
C 1	9506619-05.01	KW0218105
C 2	9506619-05.03	KW0218103

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	
VA	00151	
WI	99988779	

CERTIFICATE OF ANALYSIS

Client: Bechtel
PO Box 350
Oak Ridge, Tennessee 37831-0350
Contact: Ms. Lori Keller
Project Description: Key West/KW

cc: BECH00195 Report Date: July 17, 1995

Sample ID	: 9506619-05 DL1 KW02181 GWT
Lab ID	: 9506619-28
Matrix	: GroundH2O
Date Collected	: 06/28/95
Date Received	: 06/30/95
Priority	: Routine
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M	C
Volatile Organics												
Target Compound List Volatiles - 35 items												
,1-Trichloroethane	U	50.0	25.0	50.0	ug/l	25.	RMB	07/11/95	2003	68766	1	N
1,1,2,2-Tetrachloroethane	U	50.0	25.0	50.0	ug/l	25.						
1,1,2-Trichloroethane	U	50.0	25.0	50.0	ug/l	25.						
1,1-Dichloroethane	U	50.0	25.0	50.0	ug/l	25.						
1,1-Dichloroethylene	U	50.0	25.0	50.0	ug/l	25.						
1,2-Dichloroethane	U	50.0	25.0	50.0	ug/l	25.						
1,2-Dichloropropane	U	50.0	25.0	50.0	ug/l	25.						
1,2-cis-Dichloroethylene	U	50.0	25.0	50.0	ug/l	25.						
1,2-trans-Dichloroethylene	U	50.0	25.0	50.0	ug/l	25.						
2-Butanone	U	250	125	250	ug/l	25.						
2-Hexanone	U	250	125	250	ug/l	25.						
4-Methyl-2-pentanone	U	250	125	250	ug/l	25.						
Acetone	U	250	125	250	ug/l	25.						
Benzene	U	50.0	25.0	50.0	ug/l	25.						
Bromoform	U	50.0	50.0	50.0	ug/l	25.						
Carbon Disulfide	U	250	125	250	ug/l	25.						
Carbon Tetrachloride	U	50.0	25.0	50.0	ug/l	25.						
Chlorobenzene	U	50.0	25.0	50.0	ug/l	25.						
Chlorodibromomethane	U	50.0	25.0	50.0	ug/l	25.						
Chloroethane	U	50.0	25.0	50.0	ug/l	25.						
Chloroform	U	50.0	25.0	50.0	ug/l	25.						
Dichlorobromomethane	U	50.0	25.0	50.0	ug/l	25.						
Ethylbenzene	U	50.0	25.0	50.0	ug/l	25.						
Methyl Bromide	U	50.0	25.0	50.0	ug/l	25.						
Methyl Chloride	U	50.0	25.0	50.0	ug/l	25.						
thylene Chloride	JBD	19.8	25.0	125	ug/l	25.						
Styrene	U	250	125	250	ug/l	25.						

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	
VA	00151	
WI	99988779	

CERTIFICATE OF ANALYSIS

Client: Bechtel
PO Box 350
Oak Ridge, Tennessee 37831-0350
Contact: Ms. Lori Keller
Project Description: Key West/KW

cc: BECH00195 Report Date: July 17, 1995

Sample ID : 9506619-05 DL1 KW02181 GWT

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M	C
Tetrachloroethylene	U	50.0	25.0	50.0	ug/l	25.						
Toluene	U	50.0	25.0	50.0	ug/l	25.	RMB	07/11/95	2003	68766	1	N
Trichloroethylene	U	50.0	25.0	50.0	ug/l	25.						
Vinyl Acetate	U	250	125	250	ug/l	25.						
Vinyl chloride	U	50.0	25.0	50.0	ug/l	25.						
Xylenes (TOTAL)	U	500	250	500	ug/l	25.						
cis-1,3-Dichloropropylene	U	50.0	25.0	50.0	ug/l	25.						
trans-1,3-Dichloropropylene	U	50.0	25.0	50.0	ug/l	25.						

Surrogate Recovery	Test	Percent%	Acceptable Limits
1,2-Dichloroethane-d4	TCL VOLATILES	98.4	(81.0 - 114.)
Bromofluorobenzene	TCL VOLATILES	97.6	(86.6 - 109.)
Toluene-d8	TCL VOLATILES	96.8	(89.6 - 107.)

M = Method	Method-Description
M 1	EPA 8240 extended

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	
VA	00151	
WI	99988779	

CERTIFICATE OF ANALYSIS

Client: Bechtel
PO Box 350
Oak Ridge, Tennessee 37831-0350
Contact: Ms. Lori Keller
Project Description: Key West/KW

cc: BECH00195 Report Date: July 17, 1995

Sample ID	: KW02182 GWT
Lab ID	: 9506619-16
Matrix	: GroundH2O
Date Collected	: 06/28/95
Date Received	: 06/30/95
Priority	: Routine
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M	C
Volatile Organics												
...aphthalene	U	2.00	1.50	2.00	ug/l	1.0	THL	07/12/95	1433	68697	1	1
...rget Compound List Volatiles - 35 items												
1,1,1-Trichloroethane	U	2.00	1.00	2.00	ug/l	1.0	ECP	07/12/95	0233	68892	2	2
1,1,2,2-Tetrachloroethane	U	2.00	1.00	2.00	ug/l	1.0						
1,1,2-Trichloroethane	U	2.00	1.00	2.00	ug/l	1.0						
1,1-Dichloroethane	U	2.00	1.00	2.00	ug/l	1.0						
1,1-Dichloroethylene	U	2.00	1.00	2.00	ug/l	1.0						
1,2-Dichloroethane	U	2.00	1.00	2.00	ug/l	1.0						
1,2-Dichloropropane	U	2.00	1.00	2.00	ug/l	1.0						
1,2-cis-Dichloroethylene	U	2.00	1.00	2.00	ug/l	1.0						
1,2-trans-Dichloroethylene	U	2.00	1.00	2.00	ug/l	1.0						
2-Butanone	U	10.0	5.00	10.0	ug/l	1.0						
2-Hexanone	U	10.0	5.00	10.0	ug/l	1.0						
4-Methyl-2-pentanone	U	10.0	5.00	10.0	ug/l	1.0						
Acetone		10.9	5.00	10.0	ug/l	1.0						
Benzene	U	2.00	1.00	2.00	ug/l	1.0						
Bromoform	U	2.00	2.00	2.00	ug/l	1.0						
Carbon Disulfide	U	10.0	5.00	10.0	ug/l	1.0						
Carbon Tetrachloride	U	2.00	1.00	2.00	ug/l	1.0						
Chlorobenzene	U	2.00	1.00	2.00	ug/l	1.0						
Chlorodibromomethane	U	2.00	1.00	2.00	ug/l	1.0						
Chloroethane	U	2.00	1.00	2.00	ug/l	1.0						
Chloroform	U	2.00	1.00	2.00	ug/l	1.0						
Dichlorobromomethane	U	2.00	1.00	2.00	ug/l	1.0						
Ethylbenzene	U	2.00	1.00	2.00	ug/l	1.0						
...ethyl Bromide	U	2.00	1.00	2.00	ug/l	1.0						
...ethyl Chloride	U	2.00	1.00	2.00	ug/l	1.0						
Methylene Chloride	JB	3.64	1.00	5.00	ug/l	1.0						

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	
VA	00151	
WI	99988779	

CERTIFICATE OF ANALYSIS

Client: Bechtel
PO Box 350
Oak Ridge, Tennessee 37831-0350
Contact: Ms. Lori Keller
Project Description: Key West/KW

cc: BECH00195 Report Date: July 17, 1995

Sample ID : KW02182 GWT

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M	C
Styrene	U	10.0	5.00	10.0	ug/l	1.0						
Tetrachloroethylene	U	2.00	1.00	2.00	ug/l	1.0	ECP	07/12/95	0233	68892	2	2
Toluene	U	2.00	1.00	2.00	ug/l	1.0						
Trichloroethylene	U	2.00	1.00	2.00	ug/l	1.0						
Vinyl Acetate	U	10.0	5.00	10.0	ug/l	1.0						
Vinyl chloride	U	2.00	1.00	2.00	ug/l	1.0						
Xylenes (TOTAL)	U	20.0	10.0	20.0	ug/l	1.0						
cis-1,3-Dichloropropylene	U	2.00	1.00	2.00	ug/l	1.0						
trans-1,3-Dichloropropylene	U	2.00	1.00	2.00	ug/l	1.0						
General Chemistry												
Total Rec. Petro. Hydrocarbons		1050	1000	1000	ug/l	1.0	CAM	07/11/95	1600	68808	3	3

Surrogate Recovery	Test	Percent%	Acceptable Limits
n-propylbenzene	NAP-GC	85.2	(52.6 - 155.)
1,2-Dichloroethane-d4	TCL VOLATILES	102.	(81.0 - 114.)
Bromofluorobenzene	TCL VOLATILES	100.	(86.6 - 109.)
Toluene-d8	TCL VOLATILES	96.4	(89.6 - 107.)

M = Method	Method-Description
M 1	EPA 8020
M 2	EPA 8240 extended
M 3	EPA 418.1

C = Container	Lab. Container ID	Reference ID
C 1	9506619-16.01	KW0218203
C 2	9506619-16.02	KW0218204
C 3	9506619-16.05	KW0218202

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	
VA	00151	
WI	99988779	

CERTIFICATE OF ANALYSIS

Client: Bechtel
PO Box 350
Oak Ridge, Tennessee 37831-0350
Contact: Ms. Lori Keller
Project Description: Key West/KW

cc: BECH00195 Report Date: July 17, 1995

Sample ID	: KW02183 GWT
Lab ID	: 9506619-17
Matrix	: GroundH2O
Date Collected	: 06/28/95
Date Received	: 06/30/95
Priority	: Routine
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M	C
Volatile Organics												
...hthalene		18.8	1.50	2.00	ug/l	1.0	THL	07/12/95	1553	68697	1	1
...arget Compound List Volatiles - 35 items												
1,1,1-Trichloroethane	U	2.00	1.00	2.00	ug/l	1.0	ECP	07/12/95	0303	68892	2	2
1,1,2,2-Tetrachloroethane	U	2.00	1.00	2.00	ug/l	1.0						
1,1,2-Trichloroethane	U	2.00	1.00	2.00	ug/l	1.0						
1,1-Dichloroethane	U	2.00	1.00	2.00	ug/l	1.0						
1,1-Dichloroethylene	U	2.00	1.00	2.00	ug/l	1.0						
1,2-Dichloroethane	U	2.00	1.00	2.00	ug/l	1.0						
1,2-Dichloropropane	U	2.00	1.00	2.00	ug/l	1.0						
1,2-cis-Dichloroethylene	U	2.00	1.00	2.00	ug/l	1.0						
1,2-trans-Dichloroethylene	U	2.00	1.00	2.00	ug/l	1.0						
2-Butanone	U	10.0	5.00	10.0	ug/l	1.0						
2-Hexanone	U	10.0	5.00	10.0	ug/l	1.0						
4-Methyl-2-pentanone	U	10.0	5.00	10.0	ug/l	1.0						
Acetone	U	10.0	5.00	10.0	ug/l	1.0						
Benzene	U	2.00	1.00	2.00	ug/l	1.0						
Bromoform	U	2.00	2.00	2.00	ug/l	1.0						
Carbon Disulfide	U	10.0	5.00	10.0	ug/l	1.0						
Carbon Tetrachloride	U	2.00	1.00	2.00	ug/l	1.0						
Chlorobenzene	U	2.00	1.00	2.00	ug/l	1.0						
Chlorodibromomethane	U	2.00	1.00	2.00	ug/l	1.0						
Chloroethane	U	2.00	1.00	2.00	ug/l	1.0						
Chloroform	U	2.00	1.00	2.00	ug/l	1.0						
Dichlorobromomethane	U	2.00	1.00	2.00	ug/l	1.0						
Ethylbenzene	U	2.00	1.00	2.00	ug/l	1.0						
...ethyl Bromide	U	2.00	1.00	2.00	ug/l	1.0						
...ethyl Chloride	U	2.00	1.00	2.00	ug/l	1.0						
Methylene Chloride	JB	3.54	1.00	5.00	ug/l	1.0						

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	
VA	00151	
WI	99988779	

CERTIFICATE OF ANALYSIS

Client: Bechtel
PO Box 350
Oak Ridge, Tennessee 37831-0350
Contact: Ms. Lori Keller
Project Description: Key West/KW

cc: BECH00195 Report Date: July 17, 1995

Sample ID : KW02183 GWT

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M	C
Styrene	U	10.0	5.00	10.0	ug/l	1.0						
Tetrachloroethylene	U	2.00	1.00	2.00	ug/l	1.0	ECP	07/12/95	0303	68892	2	2
Toluene	U	2.00	1.00	2.00	ug/l	1.0						
Trichloroethylene	U	2.00	1.00	2.00	ug/l	1.0						
Vinyl Acetate	U	10.0	5.00	10.0	ug/l	1.0						
Vinyl chloride	U	2.00	1.00	2.00	ug/l	1.0						
Xylenes (TOTAL)	U	20.0	10.0	20.0	ug/l	1.0						
cis-1,3-Dichloropropylene	U	2.00	1.00	2.00	ug/l	1.0						
trans-1,3-Dichloropropylene	U	2.00	1.00	2.00	ug/l	1.0						
General Chemistry												
Total Rec. Petro. Hydrocarbons		1410	1000	1000	ug/l	1.0	CAM	07/11/95	1600	68808	3	3

Surrogate Recovery	Test	Percent%	Acceptable Limits
n-propylbenzene	NAP-GC	97.6	(52.6 - 155.)
1,2-Dichloroethane-d4	TCL VOLATILES	101.	(81.0 - 114.)
Bromofluorobenzene	TCL VOLATILES	101.	(86.6 - 109.)
Toluene-d8	TCL VOLATILES	96.4	(89.6 - 107.)

M = Method	Method-Description
M 1	EPA 8020
M 2	EPA 8240 extended
M 3	EPA 418.1

C = Container	Lab. Container ID	Reference ID
C 1	9506619-17.02	KW0218305
C 2	9506619-17.01	KW0218304
C 3	9506619-17.05	KW0218301

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	
VA	00151	
WI	99988779	

CERTIFICATE OF ANALYSIS

Client: Bechtel
PO Box 350
Oak Ridge, Tennessee 37831-0350
Contact: Ms. Lori Keller
Project Description: Key West/KW

cc: BECH00195 Report Date: July 17, 1995

Sample ID	: KW02184 GWT
Lab ID	: 9506619-18
Matrix	: GroundH2O
Date Collected	: 06/28/95
Date Received	: 06/30/95
Priority	: Routine
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M	C
Volatile Organics												
Naphthalene		19.1	1.50	2.00	ug/l	1.0	THL	07/12/95	1623	68697	1	1
Target Compound List Volatiles - 35 items												
1,1,1-Trichloroethane	U	2.00	1.00	2.00	ug/l	1.0	ECP	07/12/95	0332	68892	2	2
1,1,2,2-Tetrachloroethane	U	2.00	1.00	2.00	ug/l	1.0						
1,1,2-Trichloroethane	U	2.00	1.00	2.00	ug/l	1.0						
1,1-Dichloroethane	U	2.00	1.00	2.00	ug/l	1.0						
1,1-Dichloroethylene	U	2.00	1.00	2.00	ug/l	1.0						
1,2-Dichloroethane	U	2.00	1.00	2.00	ug/l	1.0						
1,2-Dichloropropane	U	2.00	1.00	2.00	ug/l	1.0						
1,2-cis-Dichloroethylene	U	2.00	1.00	2.00	ug/l	1.0						
1,2-trans-Dichloroethylene	U	2.00	1.00	2.00	ug/l	1.0						
2-Butanone	U	10.0	5.00	10.0	ug/l	1.0						
2-Hexanone	U	10.0	5.00	10.0	ug/l	1.0						
4-Methyl-2-pentanone	U	10.0	5.00	10.0	ug/l	1.0						
Acetone	U	10.0	5.00	10.0	ug/l	1.0						
Benzene	U	2.00	1.00	2.00	ug/l	1.0						
Bromoform	U	2.00	2.00	2.00	ug/l	1.0						
Carbon Disulfide	U	10.0	5.00	10.0	ug/l	1.0						
Carbon Tetrachloride	U	2.00	1.00	2.00	ug/l	1.0						
Chlorobenzene	U	2.00	1.00	2.00	ug/l	1.0						
Chlorodibromomethane	U	2.00	1.00	2.00	ug/l	1.0						
Chloroethane	U	2.00	1.00	2.00	ug/l	1.0						
Chloroform	U	2.00	1.00	2.00	ug/l	1.0						
Dichlorobromomethane	U	2.00	1.00	2.00	ug/l	1.0						
Ethylbenzene	U	2.00	1.00	2.00	ug/l	1.0						
Methyl Bromide	U	2.00	1.00	2.00	ug/l	1.0						
Methyl Chloride	U	2.00	1.00	2.00	ug/l	1.0						
Methylene Chloride	JB	3.76	1.00	5.00	ug/l	1.0						

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	
VA	00151	
WI	99988779	

CERTIFICATE OF ANALYSIS

Client: Bechtel
PO Box 350
Oak Ridge, Tennessee 37831-0350
Contact: Ms. Lori Keller
Project Description: Key West/KW

cc: BECH00195 Report Date: July 17, 1995

Sample ID : KW02184 GWT

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M	C
Styrene	U	10.0	5.00	10.0	ug/l	1.0						
Tetrachloroethylene	U	2.00	1.00	2.00	ug/l	1.0	ECP	07/12/95	0332	68892	2	2
Toluene	U	2.00	1.00	2.00	ug/l	1.0						
Trichloroethylene	U	2.00	1.00	2.00	ug/l	1.0						
Vinyl Acetate	U	10.0	5.00	10.0	ug/l	1.0						
Vinyl chloride	U	2.00	1.00	2.00	ug/l	1.0						
Xylenes (TOTAL)	U	20.0	10.0	20.0	ug/l	1.0						
cis-1,3-Dichloropropylene	U	2.00	1.00	2.00	ug/l	1.0						
trans-1,3-Dichloropropylene	U	2.00	1.00	2.00	ug/l	1.0						
General Chemistry												
Total Rec. Petro. Hydrocarbons		1920	1000	1000	ug/l	1.0	CAM	07/11/95	1600	68808	3	3

Surrogate Recovery	Test	Percent%	Acceptable Limits
n-propylbenzene	NAP-GC	97.0	(52.6 - 155.)
1,2-Dichloroethane-d4	TCL VOLATILES	102.	(81.0 - 114.)
Bromofluorobenzene	TCL VOLATILES	101.	(86.6 - 109.)
Toluene-d8	TCL VOLATILES	98.0	(89.6 - 107.)

M = Method	Method-Description
M 1	EPA 8020
M 2	EPA 8240 extended
M 3	EPA 418.1

C = Container	Lab. Container ID	Reference ID
C 1	9506619-18.03	KW0218404
C 2	9506619-18.04	KW0218403
C 3	9506619-18.02	KW0218402

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	
VA	00151	
WI	99988779	

CERTIFICATE OF ANALYSIS

Client: Bechtel
PO Box 350
Oak Ridge, Tennessee 37831-0350
Contact: Ms. Lori Keller
Project Description: Key West/KW

cc: BECH00195 Report Date: July 17, 1995

Sample ID	: KW02185 OFW
Lab ID	: 9506619-19
Matrix	: GroundH2O
Date Collected	: 06/28/95
Date Received	: 06/30/95
Priority	: Routine
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M	C
Volatile Organics												
Naphthalene	U	2.00	1.50	2.00	ug/l	1.0	THL	07/12/95	1652	68697	1	1
Target Compound List Volatiles - 35 items												
1,1,1-Trichloroethane	U	2.00	1.00	2.00	ug/l	1.0	ECP	07/12/95	0402	68892	2	2
1,1,2,2-Tetrachloroethane	U	2.00	1.00	2.00	ug/l	1.0						
1,1,2-Trichloroethane	U	2.00	1.00	2.00	ug/l	1.0						
1,1-Dichloroethane	U	2.00	1.00	2.00	ug/l	1.0						
1,1-Dichloroethylene	U	2.00	1.00	2.00	ug/l	1.0						
1,2-Dichloroethane	U	2.00	1.00	2.00	ug/l	1.0						
1,2-Dichloropropane	U	2.00	1.00	2.00	ug/l	1.0						
1,2-cis-Dichloroethylene	U	2.00	1.00	2.00	ug/l	1.0						
1,2-trans-Dichloroethylene	U	2.00	1.00	2.00	ug/l	1.0						
2-Butanone	U	10.0	5.00	10.0	ug/l	1.0						
2-Hexanone	U	10.0	5.00	10.0	ug/l	1.0						
4-Methyl-2-pentanone	U	10.0	5.00	10.0	ug/l	1.0						
Acetone	U	10.0	5.00	10.0	ug/l	1.0						
Benzene	U	2.00	1.00	2.00	ug/l	1.0						
Bromoform	U	2.00	2.00	2.00	ug/l	1.0						
Carbon Disulfide	U	10.0	5.00	10.0	ug/l	1.0						
Carbon Tetrachloride	U	2.00	1.00	2.00	ug/l	1.0						
Chlorobenzene	U	2.00	1.00	2.00	ug/l	1.0						
Chlorodibromomethane	U	2.00	1.00	2.00	ug/l	1.0						
Chloroethane	U	2.00	1.00	2.00	ug/l	1.0						
Chloroform		34.4	1.00	2.00	ug/l	1.0						
Dichlorobromomethane		2.57	1.00	2.00	ug/l	1.0						
Ethylbenzene	U	2.00	1.00	2.00	ug/l	1.0						
Methyl Bromide	U	2.00	1.00	2.00	ug/l	1.0						
Methyl Chloride	U	2.00	1.00	2.00	ug/l	1.0						
Methylene Chloride	B	6.08	1.00	5.00	ug/l	1.0						

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	
VA	00151	
WI	99988779	

CERTIFICATE OF ANALYSIS

Client: Bechtel
PO Box 350
Oak Ridge, Tennessee 37831-0350
Contact: Ms. Lori Keller
Project Description: Key West/KW

cc: BECH00195 Report Date: July 17, 1995

Sample ID : KW02185 OFW

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M	C
Styrene	U	10.0	5.00	10.0	ug/l	1.0						
Tetrachloroethylene	U	2.00	1.00	2.00	ug/l	1.0	ECP	07/12/95	0402	68892	2	2
Toluene	U	2.00	1.00	2.00	ug/l	1.0						
Trichloroethylene	U	2.00	1.00	2.00	ug/l	1.0						
Vinyl Acetate	U	10.0	5.00	10.0	ug/l	1.0						
Vinyl chloride	U	2.00	1.00	2.00	ug/l	1.0						
Xylenes (TOTAL)	U	20.0	10.0	20.0	ug/l	1.0						
cis-1,3-Dichloropropylene	U	2.00	1.00	2.00	ug/l	1.0						
trans-1,3-Dichloropropylene	U	2.00	1.00	2.00	ug/l	1.0						

Surrogate Recovery	Test	Percent%	Acceptable Limits
n-propylbenzene	NAP-GC	98.8	(52.6 - 155.)
1,2-Dichloroethane-d4	TCL VOLATILES	103.	(81.0 - 114.)
Bromofluorobenzene	TCL VOLATILES	100.	(86.6 - 109.)
Toluene-d8	TCL VOLATILES	94.0	(89.6 - 107.)

M = Method	Method-Description
M 1	EPA 8020
M 2	EPA 8240 extended

C = Container	Lab. Container ID	Reference ID
C 1	9506619-19.01	KW0218503
C 2	9506619-19.02	KW0218502

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	
VA	00151	
WI	99988779	

CERTIFICATE OF ANALYSIS

Client: Bechtel
PO Box 350
Oak Ridge, Tennessee 37831-0350
Contact: Ms. Lori Keller
Project Description: Key West/KW

cc: BECH00195 Report Date: July 17, 1995

Sample ID	: KW02186 GWT
Lab ID	: 9506619-20
Matrix	: GroundH2O
Date Collected	: 06/28/95
Date Received	: 06/30/95
Priority	: Routine
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M	C
Volatile Organics												
...ohthalene	U	2.00	1.50	2.00	ug/l	1.0	THL	07/12/95	1722	68697	1	1
...rget Compound List Volatiles - 35 items												
1,1,1-Trichloroethane	U	2.00	1.00	2.00	ug/l	1.0	ECP	07/12/95	0431	68892	2	2
1,1,2,2-Tetrachloroethane	U	2.00	1.00	2.00	ug/l	1.0						
1,1,2-Trichloroethane	U	2.00	1.00	2.00	ug/l	1.0						
1,1-Dichloroethane	U	2.00	1.00	2.00	ug/l	1.0						
1,1-Dichloroethylene	U	2.00	1.00	2.00	ug/l	1.0						
1,2-Dichloroethane	U	2.00	1.00	2.00	ug/l	1.0						
1,2-Dichloropropane	U	2.00	1.00	2.00	ug/l	1.0						
1,2-cis-Dichloroethylene	U	2.00	1.00	2.00	ug/l	1.0						
1,2-trans-Dichloroethylene	U	2.00	1.00	2.00	ug/l	1.0						
2-Butanone	U	10.0	5.00	10.0	ug/l	1.0						
2-Hexanone	U	10.0	5.00	10.0	ug/l	1.0						
4-Methyl-2-pentanone	U	10.0	5.00	10.0	ug/l	1.0						
Acetone	U	10.0	5.00	10.0	ug/l	1.0						
Benzene	U	2.00	1.00	2.00	ug/l	1.0						
Bromoform	U	2.00	2.00	2.00	ug/l	1.0						
Carbon Disulfide	U	10.0	5.00	10.0	ug/l	1.0						
Carbon Tetrachloride	U	2.00	1.00	2.00	ug/l	1.0						
Chlorobenzene	U	2.00	1.00	2.00	ug/l	1.0						
Chlorodibromomethane	U	2.00	1.00	2.00	ug/l	1.0						
Chloroethane	U	2.00	1.00	2.00	ug/l	1.0						
Chloroform	U	2.00	1.00	2.00	ug/l	1.0						
Dichlorobromomethane	U	2.00	1.00	2.00	ug/l	1.0						
Ethylbenzene	U	2.00	1.00	2.00	ug/l	1.0						
...ethyl Bromide	U	2.00	1.00	2.00	ug/l	1.0						
...ethyl Chloride	U	2.00	1.00	2.00	ug/l	1.0						
Methylene Chloride	JB	3.87	1.00	5.00	ug/l	1.0						

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	
VA	00151	
WI	99988779	

CERTIFICATE OF ANALYSIS

Client: Bechtel
PO Box 350
Oak Ridge, Tennessee 37831-0350
Contact: Ms. Lori Keller
Project Description: Key West/KW

cc: BECH00195 Report Date: July 17, 1995

Sample ID : KW02186 GWT

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M	C
Styrene	U	10.0	5.00	10.0	ug/l	1.0						
Tetrachloroethylene	U	2.00	1.00	2.00	ug/l	1.0	ECP	07/12/95	0431	68892	2	2
Toluene	U	2.00	1.00	2.00	ug/l	1.0						
Trichloroethylene	U	2.00	1.00	2.00	ug/l	1.0						
Vinyl Acetate	U	10.0	5.00	10.0	ug/l	1.0						
Vinyl chloride	U	2.00	1.00	2.00	ug/l	1.0						
Xylenes (TOTAL)	U	20.0	10.0	20.0	ug/l	1.0						
cis-1,3-Dichloropropylene	U	2.00	1.00	2.00	ug/l	1.0						
trans-1,3-Dichloropropylene	U	2.00	1.00	2.00	ug/l	1.0						
General Chemistry												
Total Rec. Petro. Hydrocarbons	U	1000	1000	1000	ug/l	1.0	CAM	07/11/95	1600	68808	3	3

Surrogate Recovery	Test	Percent%	Acceptable Limits
n-propylbenzene	NAP-GC	98.4	(52.6 - 155.)
1,2-Dichloroethane-d4	TCL VOLATILES	99.6	(81.0 - 114.)
Bromofluorobenzene	TCL VOLATILES	102.	(86.6 - 109.)
Toluene-d8	TCL VOLATILES	97.2	(89.6 - 107.)

M = Method	Method-Description
M 1	EPA 8020
M 2	EPA 8240 extended
M 3	EPA 418.1

C = Container	Lab. Container ID	Reference ID
C 1	9506619-20.03	KW0218605
C 2	9506619-20.02	KW0218603
C 3	9506619-20.04	KW0218601

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	
VA	00151	
WI	99988779	

CERTIFICATE OF ANALYSIS

Client: Bechtel
PO Box 350
Oak Ridge, Tennessee 37831-0350
Contact: Ms. Lori Keller
Project Description: Key West/KW

cc: BECH00195 Report Date: July 17, 1995

Sample ID	: KW02187 OFW
Lab ID	: 9506619-06
Matrix	: GroundH2O
Date Collected	: 06/30/95
Date Received	: 06/30/95
Priority	: Routine
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M	C
Volatile Organics												
Target Compound List Volatiles - 35 items												
1,1,1-Trichloroethane	U	2.00	1.00	2.00	ug/l	1.0	ECP	07/11/95	2305	68892	1	1
1,1,2,2-Tetrachloroethane	U	2.00	1.00	2.00	ug/l	1.0						
1,1,2-Trichloroethane	U	2.00	1.00	2.00	ug/l	1.0						
1,1-Dichloroethane	U	2.00	1.00	2.00	ug/l	1.0						
1,1-Dichloroethylene	U	2.00	1.00	2.00	ug/l	1.0						
1,2-Dichloroethane	U	2.00	1.00	2.00	ug/l	1.0						
1,2-Dichloropropane	U	2.00	1.00	2.00	ug/l	1.0						
1,2-cis-Dichloroethylene	U	2.00	1.00	2.00	ug/l	1.0						
1,2-trans-Dichloroethylene	U	2.00	1.00	2.00	ug/l	1.0						
2-Butanone	U	10.0	5.00	10.0	ug/l	1.0						
2-Hexanone	U	10.0	5.00	10.0	ug/l	1.0						
4-Methyl-2-pentanone	U	10.0	5.00	10.0	ug/l	1.0						
Acetone	U	10.0	5.00	10.0	ug/l	1.0						
Benzene	U	2.00	1.00	2.00	ug/l	1.0						
Bromoform	U	2.00	2.00	2.00	ug/l	1.0						
Carbon Disulfide	U	10.0	5.00	10.0	ug/l	1.0						
Carbon Tetrachloride	U	2.00	1.00	2.00	ug/l	1.0						
Chlorobenzene	U	2.00	1.00	2.00	ug/l	1.0						
Chlorodibromomethane	U	2.00	1.00	2.00	ug/l	1.0						
Chloroethane	U	2.00	1.00	2.00	ug/l	1.0						
Chloroform	U	2.00	1.00	2.00	ug/l	1.0						
Dichlorobromomethane	U	2.00	1.00	2.00	ug/l	1.0						
Ethylbenzene	U	2.00	1.00	2.00	ug/l	1.0						
Methyl Bromide	U	2.00	1.00	2.00	ug/l	1.0						
Methyl Chloride	U	2.00	1.00	2.00	ug/l	1.0						
Methylene Chloride	JB	3.51	1.00	5.00	ug/l	1.0						
Styrene	U	10.0	5.00	10.0	ug/l	1.0						

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	
VA	00151	
WI	99988779	

CERTIFICATE OF ANALYSIS

Client: Bechtel
PO Box 350
Oak Ridge, Tennessee 37831-0350
Contact: Ms. Lori Keller
Project Description: Key West/KW

cc: BECH00195 Report Date: July 17, 1995

Sample ID : KW02187 OFW

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M	C
Tetrachloroethylene	U	2.00	1.00	2.00	ug/l	1.0						
Toluene	U	2.00	1.00	2.00	ug/l	1.0	ECP	07/11/95	2305	68892	1	1
Trichloroethylene	U	2.00	1.00	2.00	ug/l	1.0						
Vinyl Acetate	U	10.0	5.00	10.0	ug/l	1.0						
Vinyl chloride	U	2.00	1.00	2.00	ug/l	1.0						
Xylenes (TOTAL)	U	20.0	10.0	20.0	ug/l	1.0						
cis-1,3-Dichloropropylene	U	2.00	1.00	2.00	ug/l	1.0						
trans-1,3-Dichloropropylene	U	2.00	1.00	2.00	ug/l	1.0						
General Chemistry												
Total Rec. Petro. Hydrocarbons	U	1000	1000	1000	ug/l	1.0	CAM	07/11/95	1600	68808	2	2

Surrogate Recovery	Test	Percent%	Acceptable Limits
1,2-Dichloroethane-d4	TCL VOLATILES	93.6	(81.0 - 114.)
Bromofluorobenzene	TCL VOLATILES	97.6	(86.6 - 109.)
Toluene-d8	TCL VOLATILES	99.2	(89.6 - 107.)

M = Method	Method-Description
M 1	EPA 8240 extended
M 2	EPA 418.1

C = Container	Lab. Container ID	Reference ID
C 1	9506619-06.02	KW0218701
C 2	9506619-06.03	KW0218704

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	
VA	00151	
WI	99988779	

CERTIFICATE OF ANALYSIS

Client: Bechtel
PO Box 350
Oak Ridge, Tennessee 37831-0350
Contact: Ms. Lori Keller
Project Description: Key West/KW

cc: BECH00195 Report Date: July 17, 1995

Sample ID : KW02188 OFW
Lab ID : 9506619-21
Matrix : GroundH2O
Date Collected : 06/30/95
Date Received : 06/30/95
Priority : Routine
Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M	C
Volatile Organics												
Naphthalene	U	2.00	1.50	2.00	ug/l	1.0	JPA	07/12/95	1519	68941	1	1
Target Compound List Volatiles - 35 items												
1,1,1-Trichloroethane	U	2.00	1.00	2.00	ug/l	1.0	ECP	07/12/95	0501	68892	2	2
1,1,2,2-Tetrachloroethane	U	2.00	1.00	2.00	ug/l	1.0						
1,1,2-Trichloroethane	U	2.00	1.00	2.00	ug/l	1.0						
1,1-Dichloroethane	U	2.00	1.00	2.00	ug/l	1.0						
1,1-Dichloroethylene	U	2.00	1.00	2.00	ug/l	1.0						
1,2-Dichloroethane	U	2.00	1.00	2.00	ug/l	1.0						
1,2-Dichloropropane	U	2.00	1.00	2.00	ug/l	1.0						
1,2-cis-Dichloroethylene	U	2.00	1.00	2.00	ug/l	1.0						
1,2-trans-Dichloroethylene	U	2.00	1.00	2.00	ug/l	1.0						
2-Butanone	U	10.0	5.00	10.0	ug/l	1.0						
2-Hexanone	U	10.0	5.00	10.0	ug/l	1.0						
4-Methyl-2-pentanone	U	10.0	5.00	10.0	ug/l	1.0						
Acetone	U	10.0	5.00	10.0	ug/l	1.0						
Benzene	U	2.00	1.00	2.00	ug/l	1.0						
Bromoform	U	2.00	2.00	2.00	ug/l	1.0						
Carbon Disulfide	U	10.0	5.00	10.0	ug/l	1.0						
Carbon Tetrachloride	U	2.00	1.00	2.00	ug/l	1.0						
Chlorobenzene	U	2.00	1.00	2.00	ug/l	1.0						
Chlorodibromomethane	U	2.00	1.00	2.00	ug/l	1.0						
Chloroethane	U	2.00	1.00	2.00	ug/l	1.0						
Chloroform	U	2.00	1.00	2.00	ug/l	1.0						
Dichlorobromomethane	U	2.00	1.00	2.00	ug/l	1.0						
Ethylbenzene	U	2.00	1.00	2.00	ug/l	1.0						
Methyl Bromide	U	2.00	1.00	2.00	ug/l	1.0						
Methyl Chloride	U	2.00	1.00	2.00	ug/l	1.0						
Methylene Chloride	B	6.17	1.00	5.00	ug/l	1.0						

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	
VA	00151	
WI	99988779	

CERTIFICATE OF ANALYSIS

Client: Bechtel
PO Box 350
Oak Ridge, Tennessee 37831-0350
Contact: Ms. Lori Keller
Project Description: Key West/KW

cc: BECH00195 Report Date: July 17, 1995

Sample ID : KW02188 OFW

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M	C
Styrene	U	10.0	5.00	10.0	ug/l	1.0						
Tetrachloroethylene	U	2.00	1.00	2.00	ug/l	1.0	ECP	07/12/95	0501	68892	2	2
Toluene	U	2.00	1.00	2.00	ug/l	1.0						
Trichloroethylene	U	2.00	1.00	2.00	ug/l	1.0						
Vinyl Acetate	U	10.0	5.00	10.0	ug/l	1.0						
Vinyl chloride	U	2.00	1.00	2.00	ug/l	1.0						
Xylenes (TOTAL)	U	20.0	10.0	20.0	ug/l	1.0						
cis-1,3-Dichloropropylene	U	2.00	1.00	2.00	ug/l	1.0						
trans-1,3-Dichloropropylene	U	2.00	1.00	2.00	ug/l	1.0						
General Chemistry												
Total Rec. Petro. Hydrocarbons	U	1000	1000	1000	ug/l	1.0	CAM	07/11/95	1600	68808	3	3

Surrogate Recovery	Test	Percent%	Acceptable Limits
n-propylbenzene	NAP-GC	107.	(52.6 - 155.)
1,2-Dichloroethane-d4	TCL VOLATILES	98.4	(81.0 - 114.)
Bromofluorobenzene	TCL VOLATILES	101.	(86.6 - 109.)
Toluene-d8	TCL VOLATILES	95.2	(89.6 - 107.)

M = Method	Method-Description
M 1	EPA 8020
M 2	EPA 8240 extended
M 3	EPA 418.1

C = Container	Lab. Container ID	Reference ID
C 1	9506619-21.02	KW0218803
C 2	9506619-21.03	KW0218802
C 3	9506619-21.04	KW0218801

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	
VA	00151	
WI	99988779	

CERTIFICATE OF ANALYSIS

Client: Bechtel
PO Box 350
Oak Ridge, Tennessee 37831-0350
Contact: Ms. Lori Keller
Project Description: Key West/KW

cc: BECH00195 Report Date: July 17, 1995

Sample ID	: KW02189 OFW
Lab ID	: 9506619-11
Matrix	: GroundH2O
Date Collected	: 06/30/95
Date Received	: 06/30/95
Priority	: Routine
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M	C
Volatile Organics												
phthalene	U	2.00	1.50	2.00	ug/l	1.0	JPA	07/12/95	1451	68941	1	1
arget Compound List Volatiles - 35 items												
1,1,1-Trichloroethane	U	2.00	1.00	2.00	ug/l	1.0	ECP	07/12/95	0134	68892	2	2
1,1,2,2-Tetrachloroethane	U	2.00	1.00	2.00	ug/l	1.0						
1,1,2-Trichloroethane	U	2.00	1.00	2.00	ug/l	1.0						
1,1-Dichloroethane	U	2.00	1.00	2.00	ug/l	1.0						
1,1-Dichloroethylene	U	2.00	1.00	2.00	ug/l	1.0						
1,2-Dichloroethane	U	2.00	1.00	2.00	ug/l	1.0						
1,2-Dichloropropane	U	2.00	1.00	2.00	ug/l	1.0						
1,2-cis-Dichloroethylene	U	2.00	1.00	2.00	ug/l	1.0						
1,2-trans-Dichloroethylene	U	2.00	1.00	2.00	ug/l	1.0						
2-Butanone	U	10.0	5.00	10.0	ug/l	1.0						
2-Hexanone	U	10.0	5.00	10.0	ug/l	1.0						
4-Methyl-2-pentanone	U	10.0	5.00	10.0	ug/l	1.0						
Acetone	U	10.0	5.00	10.0	ug/l	1.0						
Benzene	U	2.00	1.00	2.00	ug/l	1.0						
Bromoform	U	2.00	2.00	2.00	ug/l	1.0						
Carbon Disulfide	U	10.0	5.00	10.0	ug/l	1.0						
Carbon Tetrachloride	U	2.00	1.00	2.00	ug/l	1.0						
Chlorobenzene	U	2.00	1.00	2.00	ug/l	1.0						
Chlorodibromomethane	U	2.00	1.00	2.00	ug/l	1.0						
Chloroethane	U	2.00	1.00	2.00	ug/l	1.0						
Chloroform	U	2.00	1.00	2.00	ug/l	1.0						
Dichlorobromomethane	U	2.00	1.00	2.00	ug/l	1.0						
Ethylbenzene	U	2.00	1.00	2.00	ug/l	1.0						
thyl Bromide	U	2.00	1.00	2.00	ug/l	1.0						
Methyl Chloride	U	2.00	1.00	2.00	ug/l	1.0						
Methylene Chloride	JB	4.31	1.00	5.00	ug/l	1.0						

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	
VA	00151	
WI	99988779	

CERTIFICATE OF ANALYSIS

Client: Bechtel
PO Box 350
Oak Ridge, Tennessee 37831-0350
Contact: Ms. Lori Keller
Project Description: Key West/KW

cc: BECH00195 Report Date: July 17, 1995

Sample ID : KW02189 OFW

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M	C
Styrene	U	10.0	5.00	10.0	ug/l	1.0						
Tetrachloroethylene	U	2.00	1.00	2.00	ug/l	1.0	ECP	07/12/95	0134	68892	2	2
Toluene	U	2.00	1.00	2.00	ug/l	1.0						
Trichloroethylene	U	2.00	1.00	2.00	ug/l	1.0						
Vinyl Acetate	U	10.0	5.00	10.0	ug/l	1.0						
Vinyl chloride	U	2.00	1.00	2.00	ug/l	1.0						
Xylenes (TOTAL)	U	20.0	10.0	20.0	ug/l	1.0						
cis-1,3-Dichloropropylene	U	2.00	1.00	2.00	ug/l	1.0						
trans-1,3-Dichloropropylene	U	2.00	1.00	2.00	ug/l	1.0						
General Chemistry												
Total Rec. Petro. Hydrocarbons	U	1000	1000	1000	ug/l	1.0	CAM	07/11/95	1600	68808	3	3

Surrogate Recovery	Test	Percent%	Acceptable Limits
n-propylbenzene	NAP-GC	105.	(52.6 - 155.)
1,2-Dichloroethane-d4	TCL VOLATILES	101.	(81.0 - 114.)
Bromofluorobenzene	TCL VOLATILES	98.8	(86.6 - 109.)
Toluene-d8	TCL VOLATILES	96.8	(89.6 - 107.)

M = Method	Method-Description
M 1	EPA 8020
M 2	EPA 8240 extended
M 3	EPA 418.1

C = Container	Lab. Container ID	Reference ID
C 1	9506619-11.01	KW0218903
C 2	9506619-11.02	KW0218904
C 3	9506619-11.04	KW0218901

GENERAL ENGINEERING LABORATORIES

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Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	
VA	00151	
WI	99988779	

CERTIFICATE OF ANALYSIS

Client: Bechtel
PO Box 350
Oak Ridge, Tennessee 37831-0350
Contact: Ms. Lori Keller
Project Description: Key West/KW

cc: BECH00195 Report Date: July 17, 1995

Sample ID	: KW02190 GWT
Lab ID	: 9506619-12
Matrix	: GroundH2O
Date Collected	: 06/28/95
Date Received	: 06/30/95
Priority	: Routine
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M	C
Volatile Organics												
aphthalene		3.42	1.50	2.00	ug/l	1.0	THL	07/12/95	1233	68697	1	1
arget Compound List Volatiles - 35 items												
1,1,1-Trichloroethane	X	2.00	1.00	2.00	ug/l	1.0	RMB	07/10/95	2233	68766	2	2
1,1,2,2-Tetrachloroethane	X	2.00	1.00	2.00	ug/l	1.0						
1,1,2-Trichloroethane	X	2.00	1.00	2.00	ug/l	1.0						
1,1-Dichloroethane	X	2.00	1.00	2.00	ug/l	1.0						
1,1-Dichloroethylene	X	2.00	1.00	2.00	ug/l	1.0						
1,2-Dichloroethane	X	2.00	1.00	2.00	ug/l	1.0						
1,2-Dichloropropane	X	2.00	1.00	2.00	ug/l	1.0						
1,2-cis-Dichloroethylene	X	2.00	1.00	2.00	ug/l	1.0						
1,2-trans-Dichloroethylene	X	2.00	1.00	2.00	ug/l	1.0						
2-Butanone	X	10.0	5.00	10.0	ug/l	1.0						
2-Hexanone	X	10.0	5.00	10.0	ug/l	1.0						
4-Methyl-2-pentanone	X	10.0	5.00	10.0	ug/l	1.0						
Acetone	X	10.0	5.00	10.0	ug/l	1.0						
Benzene	X	11.8	1.00	2.00	ug/l	1.0						
Bromoform	X	2.00	2.00	2.00	ug/l	1.0						
Carbon Disulfide	X	10.0	5.00	10.0	ug/l	1.0						
Carbon Tetrachloride	X	2.00	1.00	2.00	ug/l	1.0						
Chlorobenzene	X	2.00	1.00	2.00	ug/l	1.0						
Chlorodibromomethane	X	2.00	1.00	2.00	ug/l	1.0						
Chloroethane	X	2.00	1.00	2.00	ug/l	1.0						
Chloroform	X	2.00	1.00	2.00	ug/l	1.0						
Dichlorobromomethane	X	2.00	1.00	2.00	ug/l	1.0						
Ethylbenzene	X	2.00	1.00	2.00	ug/l	1.0						
Methyl Bromide	X	2.00	1.00	2.00	ug/l	1.0						
Methyl Chloride	X	2.00	1.00	2.00	ug/l	1.0						
Methylene Chloride	X	5.00	1.00	5.00	ug/l	1.0						

GENERAL ENGINEERING LABORATORIES

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Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	
VA	00151	
WI	99988779	

CERTIFICATE OF ANALYSIS

Client: Bechtel
PO Box 350
Oak Ridge, Tennessee 37831-0350
Contact: Ms. Lori Keller
Project Description: Key West/KW

cc: BECH00195 Report Date: July 17, 1995

Sample ID : KW02190 GWT

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M	C
Styrene	X	10.0	5.00	10.0	ug/l	1.0						
Tetrachloroethylene	X	2.00	1.00	2.00	ug/l	1.0	RMB	07/10/95	2233	68766	2	2
Toluene	X	2.00	1.00	2.00	ug/l	1.0						
Trichloroethylene	X	2.00	1.00	2.00	ug/l	1.0						
Vinyl Acetate	X	10.0	5.00	10.0	ug/l	1.0						
Vinyl chloride	X	2.00	1.00	2.00	ug/l	1.0						
Xylenes (TOTAL)	X	20.0	10.0	20.0	ug/l	1.0						
cis-1,3-Dichloropropylene	X	2.00	1.00	2.00	ug/l	1.0						
trans-1,3-Dichloropropylene	X	2.00	1.00	2.00	ug/l	1.0						
General Chemistry												
Total Rec. Petro. Hydrocarbons		1240	1000	1000	ug/l	1.0	CAM	07/11/95	1600	68808	3	3

Surrogate Recovery	Test	Percent%	Acceptable Limits
n-propylbenzene	NAP-GC	98.4	(52.6 - 155.)
1,2-Dichloroethane-d4	TCL VOLATILES	0.00*	(81.0 - 114.)
Bromofluorobenzene	TCL VOLATILES	89.6	(86.6 - 109.)
Toluene-d8	TCL VOLATILES	40.8*	(89.6 - 107.)

M = Method	Method-Description
M 1	EPA 8020
M 2	EPA 8240 extended
M 3	EPA 418.1

C = Container	Lab. Container ID	Reference ID
C 1	9506619-12.03	KW0219003
C 2	9506619-12.02	KW0219004
C 3	9506619-12.05	KW0219002

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	
VA	00151	
WI	99988779	

CERTIFICATE OF ANALYSIS

Client: Bechtel
PO Box 350
Oak Ridge, Tennessee 37831-0350
Contact: Ms. Lori Keller
Project Description: Key West/KW

cc: BECH00195 Report Date: July 17, 1995

Sample ID	: 9506619-12 DL1 KW02190 GWT
Lab ID	: 9506619-25
Matrix	: GroundH2O
Date Collected	: 06/28/95
Date Received	: 06/30/95
Priority	: Routine
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M	C
Volatile Organics												
Target Compound List Volatiles - 35 items												
,1,1-Trichloroethane	U	50.0	25.0	50.0	ug/l	25.	RMB	07/11/95	1824	68766	1	N
1,1,2,2-Tetrachloroethane	U	50.0	25.0	50.0	ug/l	25.						
1,1,2-Trichloroethane	U	50.0	25.0	50.0	ug/l	25.						
1,1-Dichloroethane	U	50.0	25.0	50.0	ug/l	25.						
1,1-Dichloroethylene	U	50.0	25.0	50.0	ug/l	25.						
1,2-Dichloroethane	U	50.0	25.0	50.0	ug/l	25.						
1,2-Dichloropropane	U	50.0	25.0	50.0	ug/l	25.						
1,2-cis-Dichloroethylene	U	50.0	25.0	50.0	ug/l	25.						
1,2-trans-Dichloroethylene	U	50.0	25.0	50.0	ug/l	25.						
2-Butanone	U	250	125	250	ug/l	25.						
2-Hexanone	U	250	125	250	ug/l	25.						
4-Methyl-2-pentanone	U	250	125	250	ug/l	25.						
Acetone	U	250	125	250	ug/l	25.						
Benzene	U	50.0	25.0	50.0	ug/l	25.						
Bromoform	U	50.0	50.0	50.0	ug/l	25.						
Carbon Disulfide	U	250	125	250	ug/l	25.						
Carbon Tetrachloride	U	50.0	25.0	50.0	ug/l	25.						
Chlorobenzene	U	50.0	25.0	50.0	ug/l	25.						
Chlorodibromomethane	U	50.0	25.0	50.0	ug/l	25.						
Chloroethane	U	50.0	25.0	50.0	ug/l	25.						
Chloroform	U	50.0	25.0	50.0	ug/l	25.						
Dichlorobromomethane	U	50.0	25.0	50.0	ug/l	25.						
Ethylbenzene	U	50.0	25.0	50.0	ug/l	25.						
Methyl Bromide	U	50.0	25.0	50.0	ug/l	25.						
Methyl Chloride	U	50.0	25.0	50.0	ug/l	25.						
ethylene Chloride	JBD	19.7	25.0	125	ug/l	25.						
Styrene	U	250	125	250	ug/l	25.						

GENERAL ENGINEERING LABORATORIES

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Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	
VA	00151	
WI	99988779	

CERTIFICATE OF ANALYSIS

Client: Bechtel
PO Box 350
Oak Ridge, Tennessee 37831-0350
Contact: Ms. Lori Keller
Project Description: Key West/KW

cc: BECH00195 Report Date: July 17, 1995

Sample ID : 9506619-12 DL1 KW02190 GWT

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M	C
Tetrachloroethylene	U	50.0	25.0	50.0	ug/l	25.						
Toluene	U	50.0	25.0	50.0	ug/l	25.	RMB	07/11/95	1824	68766	1	N
Trichloroethylene	U	50.0	25.0	50.0	ug/l	25.						
Vinyl Acetate	U	250	125	250	ug/l	25.						
Vinyl chloride	U	50.0	25.0	50.0	ug/l	25.						
Xylenes (TOTAL)	U	500	250	500	ug/l	25.						
cis-1,3-Dichloropropylene	U	50.0	25.0	50.0	ug/l	25.						
trans-1,3-Dichloropropylene	U	50.0	25.0	50.0	ug/l	25.						

Surrogate Recovery	Test	Percent%	Acceptable Limits
1,2-Dichloroethane-d4	TCL VOLATILES	99.6	(81.0 - 114.)
Bromofluorobenzene	TCL VOLATILES	98.8	(86.6 - 109.)
Toluene-d8	TCL VOLATILES	98.4	(89.6 - 107.)

M = Method	Method-Description
M 1	EPA 8240 extended

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	
VA	00151	
WI	99988779	

CERTIFICATE OF ANALYSIS

Client: Bechtel
PO Box 350
Oak Ridge, Tennessee 37831-0350
Contact: Ms. Lori Keller
Project Description: Key West/KW

cc: BECH00195 Report Date: July 17, 1995

Sample ID	: KW02191 GWT
Lab ID	: 9506619-13
Matrix	: GroundH2O
Date Collected	: 06/28/95
Date Received	: 06/30/95
Priority	: Routine
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M	C
Volatile Organics												
aphthalene	U	2.00	1.50	2.00	ug/l	1.0	THL	07/12/95	1303	68697	1	1
rget Compound List Volatiles - 35 items												
1,1,1-Trichloroethane	X	2.00	1.00	2.00	ug/l	1.0	RMB	07/10/95	2306	68766	2	2
1,1,2,2-Tetrachloroethane	X	2.00	1.00	2.00	ug/l	1.0						
1,1,2-Trichloroethane	X	2.00	1.00	2.00	ug/l	1.0						
1,1-Dichloroethane	X	2.00	1.00	2.00	ug/l	1.0						
1,1-Dichloroethylene	X	2.00	1.00	2.00	ug/l	1.0						
1,2-Dichloroethane	X	2.00	1.00	2.00	ug/l	1.0						
1,2-Dichloropropane	X	2.00	1.00	2.00	ug/l	1.0						
1,2-cis-Dichloroethylene	X	2.00	1.00	2.00	ug/l	1.0						
1,2-trans-Dichloroethylene	X	2.00	1.00	2.00	ug/l	1.0						
2-Butanone	X	10.0	5.00	10.0	ug/l	1.0						
2-Hexanone	X	10.0	5.00	10.0	ug/l	1.0						
4-Methyl-2-pentanone	X	10.0	5.00	10.0	ug/l	1.0						
Acetone	X	10.0	5.00	10.0	ug/l	1.0						
Benzene	X	2.00	1.00	2.00	ug/l	1.0						
Bromoform	X	2.00	2.00	2.00	ug/l	1.0						
Carbon Disulfide	X	10.0	5.00	10.0	ug/l	1.0						
Carbon Tetrachloride	X	2.00	1.00	2.00	ug/l	1.0						
Chlorobenzene	X	2.00	1.00	2.00	ug/l	1.0						
Chlorodibromomethane	X	2.00	1.00	2.00	ug/l	1.0						
Chloroethane	X	2.00	1.00	2.00	ug/l	1.0						
Chloroform	X	2.00	1.00	2.00	ug/l	1.0						
Dichlorobromomethane	X	2.00	1.00	2.00	ug/l	1.0						
Ethylbenzene	X	2.00	1.00	2.00	ug/l	1.0						
ethyl Bromide	X	2.00	1.00	2.00	ug/l	1.0						
ethyl Chloride	X	2.00	1.00	2.00	ug/l	1.0						
Methylene Chloride	X	5.00	1.00	5.00	ug/l	1.0						

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	
VA	00151	
WI	99988779	

CERTIFICATE OF ANALYSIS

Client: Bechtel
PO Box 350
Oak Ridge, Tennessee 37831-0350
Contact: Ms. Lori Keller
Project Description: Key West/KW

cc: BECH00195 Report Date: July 17, 1995

Sample ID : KW02191 GWT

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M	C
Styrene	X	10.0	5.00	10.0	ug/l	1.0						
Tetrachloroethylene	X	2.00	1.00	2.00	ug/l	1.0	RMB	07/10/95	2306	68766	2	2
Toluene	X	2.00	1.00	2.00	ug/l	1.0						
Trichloroethylene	X	2.00	1.00	2.00	ug/l	1.0						
Vinyl Acetate	X	10.0	5.00	10.0	ug/l	1.0						
Vinyl chloride	X	2.00	1.00	2.00	ug/l	1.0						
Xylenes (TOTAL)	X	20.0	10.0	20.0	ug/l	1.0						
cis-1,3-Dichloropropylene	X	2.00	1.00	2.00	ug/l	1.0						
trans-1,3-Dichloropropylene	X	2.00	1.00	2.00	ug/l	1.0						
General Chemistry												
Total Rec. Petro. Hydrocarbons	U	1000	1000	1000	ug/l	1.0	CAM	07/11/95	1600	68808	3	3

Surrogate Recovery	Test	Percent%	Acceptable Limits
n-propylbenzene	NAP-GC	98.6	(52.6 - 155.)
1,2-Dichloroethane-d4	TCL VOLATILES	0.00*	(81.0 - 114.)
Bromofluorobenzene	TCL VOLATILES	86.4*	(86.6 - 109.)
Toluene-d8	TCL VOLATILES	44.0*	(89.6 - 107.)

M = Method	Method-Description
M 1	EPA 8020
M 2	EPA 8240 extended
M 3	EPA 418.1

C = Container	Lab. Container ID	Reference ID
C 1	9506619-13.01	KW0219105
C 2	9506619-13.02	KW0219103
C 3	9506619-13.05	KW0219102

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	
VA	00151	
WI	99988779	

CERTIFICATE OF ANALYSIS

Client: Bechtel
PO Box 350
Oak Ridge, Tennessee 37831-0350
Contact: Ms. Lori Keller
Project Description: Key West/KW

cc: BECH00195 Report Date: July 17, 1995

Sample ID	: 9506619-13 DL1 KW02191 GWT
Lab ID	: 9506619-26
Matrix	: GroundH2O
Date Collected	: 06/28/95
Date Received	: 06/30/95
Priority	: Routine
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M	C
Volatile Organics												
rget Compound List Volatiles - 35 items												
,1,1-Trichloroethane	U	50.0	25.0	50.0	ug/l	25.	RMB	07/11/95	18:57	68766	1	N
1,1,2,2-Tetrachloroethane	U	50.0	25.0	50.0	ug/l	25.						
1,1,2-Trichloroethane	U	50.0	25.0	50.0	ug/l	25.						
1,1-Dichloroethane	U	50.0	25.0	50.0	ug/l	25.						
1,1-Dichloroethylene	U	50.0	25.0	50.0	ug/l	25.						
1,2-Dichloroethane	U	50.0	25.0	50.0	ug/l	25.						
1,2-Dichloropropane	U	50.0	25.0	50.0	ug/l	25.						
1,2-cis-Dichloroethylene	U	50.0	25.0	50.0	ug/l	25.						
1,2-trans-Dichloroethylene	U	50.0	25.0	50.0	ug/l	25.						
2-Butanone	U	250	125	250	ug/l	25.						
2-Hexanone	U	250	125	250	ug/l	25.						
4-Methyl-2-pentanone	U	250	125	250	ug/l	25.						
Acetone	U	250	125	250	ug/l	25.						
Benzene	U	50.0	25.0	50.0	ug/l	25.						
Bromoform	U	50.0	50.0	50.0	ug/l	25.						
Carbon Disulfide	U	250	125	250	ug/l	25.						
Carbon Tetrachloride	U	50.0	25.0	50.0	ug/l	25.						
Chlorobenzene	U	50.0	25.0	50.0	ug/l	25.						
Chlorodibromomethane	U	50.0	25.0	50.0	ug/l	25.						
Chloroethane	U	50.0	25.0	50.0	ug/l	25.						
Chloroform	U	50.0	25.0	50.0	ug/l	25.						
Dichlorobromomethane	U	50.0	25.0	50.0	ug/l	25.						
Ethylbenzene	U	50.0	25.0	50.0	ug/l	25.						
Methyl Bromide	U	50.0	25.0	50.0	ug/l	25.						
Methyl Chloride	U	50.0	25.0	50.0	ug/l	25.						
Methylene Chloride	JBD	21.2	25.0	125	ug/l	25.						
Styrene	U	250	125	250	ug/l	25.						

GENERAL ENGINEERING LABORATORIES

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Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	
VA	00151	
WI	99988779	

CERTIFICATE OF ANALYSIS

Client: Bechtel
PO Box 350
Oak Ridge, Tennessee 37831-0350
Contact: Ms. Lori Keller
Project Description: Key West/KW

cc: BECH00195 Report Date: July 17, 1995

Sample ID : 9506619-13 DL1 KW02191 GWT

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M	C
Tetrachloroethylene	U	50.0	25.0	50.0	ug/l	25.						
Toluene	U	50.0	25.0	50.0	ug/l	25.	RMB	07/11/95	1857	68766	1	N
Trichloroethylene	U	50.0	25.0	50.0	ug/l	25.						
Vinyl Acetate	U	250	125	250	ug/l	25.						
Vinyl chloride	U	50.0	25.0	50.0	ug/l	25.						
Xylenes (TOTAL)	U	500	250	500	ug/l	25.						
cis-1,3-Dichloropropylene	U	50.0	25.0	50.0	ug/l	25.						
trans-1,3-Dichloropropylene	U	50.0	25.0	50.0	ug/l	25.						

Surrogate Recovery	Test	Percent%	Acceptable Limits
1,2-Dichloroethane-d4	TCL VOLATILES	96.8	(81.0 - 114.)
Bromofluorobenzene	TCL VOLATILES	98.0	(86.6 - 109.)
Toluene-d8	TCL VOLATILES	97.2	(89.6 - 107.)

M = Method	Method-Description
M 1	EPA 8240 extended

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	
VA	00151	
WI	99988779	

CERTIFICATE OF ANALYSIS

Client: Bechtel
PO Box 350
Oak Ridge, Tennessee 37831-0350
Contact: Ms. Lori Keller
Project Description: Key West/KW

cc: BECH00195 Report Date: July 17, 1995

Sample ID : KW02192 GWT
Lab ID : 9506619-15
Matrix : GroundH2O
Date Collected : 06/28/95
Date Received : 06/30/95
Priority : Routine
Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M	C
Volatile Organics												
aphthalene	U	2.00	1.50	2.00	ug/l	1.0	THL	07/12/95	1403	68697	1	1
rget Compound List Volatiles - 35 items												
1,1,1-Trichloroethane	U	2.00	1.00	2.00	ug/l	1.0	ECP	07/12/95	0203	68892	2	2
1,1,2,2-Tetrachloroethane	U	2.00	1.00	2.00	ug/l	1.0						
1,1,2-Trichloroethane	U	2.00	1.00	2.00	ug/l	1.0						
1,1-Dichloroethane	U	2.00	1.00	2.00	ug/l	1.0						
1,1-Dichloroethylene	U	2.00	1.00	2.00	ug/l	1.0						
1,2-Dichloroethane	U	2.00	1.00	2.00	ug/l	1.0						
1,2-Dichloropropane	U	2.00	1.00	2.00	ug/l	1.0						
1,2-cis-Dichloroethylene	U	2.00	1.00	2.00	ug/l	1.0						
1,2-trans-Dichloroethylene	U	2.00	1.00	2.00	ug/l	1.0						
2-Butanone	U	10.0	5.00	10.0	ug/l	1.0						
2-Hexanone	U	10.0	5.00	10.0	ug/l	1.0						
4-Methyl-2-pentanone	U	10.0	5.00	10.0	ug/l	1.0						
Acetone	U	10.0	5.00	10.0	ug/l	1.0						
Benzene	U	2.00	1.00	2.00	ug/l	1.0						
Bromoform	U	2.00	2.00	2.00	ug/l	1.0						
Carbon Disulfide	U	10.0	5.00	10.0	ug/l	1.0						
Carbon Tetrachloride	U	2.00	1.00	2.00	ug/l	1.0						
Chlorobenzene	U	2.00	1.00	2.00	ug/l	1.0						
Chlorodibromomethane	U	2.00	1.00	2.00	ug/l	1.0						
Chloroethane	U	2.00	1.00	2.00	ug/l	1.0						
Chloroform	U	2.00	1.00	2.00	ug/l	1.0						
Dichlorobromomethane	U	2.00	1.00	2.00	ug/l	1.0						
Ethylbenzene	U	2.00	1.00	2.00	ug/l	1.0						
Methyl Bromide	U	2.00	1.00	2.00	ug/l	1.0						
ethyl Chloride	U	2.00	1.00	2.00	ug/l	1.0						
Methylene Chloride	JB	2.90	1.00	5.00	ug/l	1.0						

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	
VA	00151	
WI	99988779	

CERTIFICATE OF ANALYSIS

Client: Bechtel
PO Box 350
Oak Ridge, Tennessee 37831-0350
Contact: Ms. Lori Keller
Project Description: Key West/KW

cc: BECH00195 Report Date: July 17, 1995

Sample ID : KW02192 GWT

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M	C
Styrene	U	10.0	5.00	10.0	ug/l	1.0						
Tetrachloroethylene	U	2.00	1.00	2.00	ug/l	1.0	ECP	07/12/95	0203	68892	2	2
Toluene	U	2.00	1.00	2.00	ug/l	1.0						
Trichloroethylene	U	2.00	1.00	2.00	ug/l	1.0						
Vinyl Acetate	U	10.0	5.00	10.0	ug/l	1.0						
Vinyl chloride	U	2.00	1.00	2.00	ug/l	1.0						
Xylenes (TOTAL)	U	20.0	10.0	20.0	ug/l	1.0						
cis-1,3-Dichloropropylene	U	2.00	1.00	2.00	ug/l	1.0						
trans-1,3-Dichloropropylene	U	2.00	1.00	2.00	ug/l	1.0						
General Chemistry												
Total Rec. Petro. Hydrocarbons		1700	1000	1000	ug/l	1.0	CAM	07/11/95	1600	68808	3	3

Surrogate Recovery	Test	Percent%	Acceptable Limits
n-propylbenzene	NAP-GC	99.4	(52.6 - 155.)
1,2-Dichloroethane-d4	TCL VOLATILES	99.2	(81.0 - 114.)
Bromofluorobenzene	TCL VOLATILES	99.6	(86.6 - 109.)
Toluene-d8	TCL VOLATILES	97.2	(89.6 - 107.)

M = Method	Method-Description
M 1	EPA 8020
M 2	EPA 8240 extended
M 3	EPA 418.1

C = Container	Lab. Container ID	Reference ID
C 1	9506619-15.01	KW0219203
C 2	9506619-15.03	KW0219204
C 3	9506619-15.05	KW0219202

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	
VA	00151	
WI	99988779	

CERTIFICATE OF ANALYSIS

Client: Bechtel
PO Box 350
Oak Ridge, Tennessee 37831-0350
Contact: Ms. Lori Keller
Project Description: Key West/KW

cc: BECH00195 Report Date: July 17, 1995

Sample ID	: KW02193 GWT
Lab ID	: 9506619-14
Matrix	: GroundH2O
Date Collected	: 06/28/95
Date Received	: 06/30/95
Priority	: Routine
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M	C
Volatile Organics												
phthalene	U	2.00	1.50	2.00	ug/l	1.0	THL	07/12/95	1333	68697	1	1
arget Compound List Volatiles - 35 items												
1,1,1-Trichloroethane	U	2.00	1.00	2.00	ug/l	1.0	RMB	07/10/95	1612	68766	2	2
1,1,2,2-Tetrachloroethane	U	2.00	1.00	2.00	ug/l	1.0						
1,1,2-Trichloroethane	U	2.00	1.00	2.00	ug/l	1.0						
1,1-Dichloroethane	U	2.00	1.00	2.00	ug/l	1.0						
1,1-Dichloroethylene	U	2.00	1.00	2.00	ug/l	1.0						
1,2-Dichloroethane	U	2.00	1.00	2.00	ug/l	1.0						
1,2-Dichloropropane	U	2.00	1.00	2.00	ug/l	1.0						
1,2-cis-Dichloroethylene	U	2.00	1.00	2.00	ug/l	1.0						
1,2-trans-Dichloroethylene	U	2.00	1.00	2.00	ug/l	1.0						
2-Butanone	U	10.0	5.00	10.0	ug/l	1.0						
2-Hexanone	U	10.0	5.00	10.0	ug/l	1.0						
4-Methyl-2-pentanone	U	10.0	5.00	10.0	ug/l	1.0						
Acetone	U	10.0	5.00	10.0	ug/l	1.0						
Benzene	U	2.00	1.00	2.00	ug/l	1.0						
Bromoform	U	2.00	2.00	2.00	ug/l	1.0						
Carbon Disulfide		12.5	5.00	10.0	ug/l	1.0						
Carbon Tetrachloride	U	2.00	1.00	2.00	ug/l	1.0						
Chlorobenzene	U	2.00	1.00	2.00	ug/l	1.0						
Chlorodibromomethane	U	2.00	1.00	2.00	ug/l	1.0						
Chloroethane	U	2.00	1.00	2.00	ug/l	1.0						
Chloroform	U	2.00	1.00	2.00	ug/l	1.0						
Dichlorobromomethane	U	2.00	1.00	2.00	ug/l	1.0						
Ethylbenzene	U	2.00	1.00	2.00	ug/l	1.0						
ethyl Bromide	U	2.00	1.00	2.00	ug/l	1.0						
ethyl Chloride	U	2.00	1.00	2.00	ug/l	1.0						
Methylene Chloride	JB	0.695	1.00	5.00	ug/l	1.0						

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	
VA	00151	
WI	99988779	

CERTIFICATE OF ANALYSIS

Client: Bechtel
PO Box 350
Oak Ridge, Tennessee 37831-0350
Contact: Ms. Lori Keller
Project Description: Key West/KW

cc: BECH00195 Report Date: July 17, 1995

Sample ID : KW02193 GWT

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M	C
Styrene	U	10.0	5.00	10.0	ug/l	1.0						
Tetrachloroethylene	U	2.00	1.00	2.00	ug/l	1.0	RMB	07/10/95	1612	68766	2	2
Toluene	U	2.00	1.00	2.00	ug/l	1.0						
Trichloroethylene	U	2.00	1.00	2.00	ug/l	1.0						
Vinyl Acetate	U	10.0	5.00	10.0	ug/l	1.0						
Vinyl chloride	U	2.00	1.00	2.00	ug/l	1.0						
Xylenes (TOTAL)	U	20.0	10.0	20.0	ug/l	1.0						
cis-1,3-Dichloropropylene	U	2.00	1.00	2.00	ug/l	1.0						
trans-1,3-Dichloropropylene	U	2.00	1.00	2.00	ug/l	1.0						
General Chemistry												
Total Rec. Petro. Hydrocarbons		1580	1000	1000	ug/l	1.0	CAM	07/11/95	1600	68808	3	3

Surrogate Recovery	Test	Percent%	Acceptable Limits
n-propylbenzene	NAP-GC	99.6	(52.6 - 155.)
1,2-Dichloroethane-d4	TCL VOLATILES	93.2	(81.0 - 114.)
Bromofluorobenzene	TCL VOLATILES	92.4	(86.6 - 109.)
Toluene-d8	TCL VOLATILES	96.0	(89.6 - 107.)

M = Method	Method-Description
M 1	EPA 8020
M 2	EPA 8240 extended
M 3	EPA 418.1

C = Container	Lab. Container ID	Reference ID
C 1	9506619-14.01	KW0219303
C 2	9506619-14.03	KW0219304
C 3	9506619-14.05	KW0219301

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	
VA	00151	
WI	99988779	

CERTIFICATE OF ANALYSIS

Client: Bechtel
PO Box 350
Oak Ridge, Tennessee 37831-0350
Contact: Ms. Lori Keller
Project Description: Key West/KW

cc: BECH00195 Report Date: July 17, 1995

Sample ID : KW02194 OFW
Lab ID : 9506619-07
Matrix : GroundH2O
Date Collected : 06/30/95
Date Received : 06/30/95
Priority : Routine
Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M	C
Volatile Organics												
aphthalene	U	2.00	1.50	2.00	ug/l	1.0	JPA	07/12/95	1133	68941	1	1
rget Compound List Volatiles - 35 items												
1,1,1-Trichloroethane	U	2.00	1.00	2.00	ug/l	1.0	ECP	07/11/95	2335	68892	2	2
1,1,2,2-Tetrachloroethane	U	2.00	1.00	2.00	ug/l	1.0						
1,1,2-Trichloroethane	U	2.00	1.00	2.00	ug/l	1.0						
1,1-Dichloroethane	U	2.00	1.00	2.00	ug/l	1.0						
1,1-Dichloroethylene	U	2.00	1.00	2.00	ug/l	1.0						
1,2-Dichloroethane	U	2.00	1.00	2.00	ug/l	1.0						
1,2-Dichloropropane	U	2.00	1.00	2.00	ug/l	1.0						
1,2-cis-Dichloroethylene	U	2.00	1.00	2.00	ug/l	1.0						
1,2-trans-Dichloroethylene	U	2.00	1.00	2.00	ug/l	1.0						
2-Butanone	U	10.0	5.00	10.0	ug/l	1.0						
2-Hexanone	U	10.0	5.00	10.0	ug/l	1.0						
4-Methyl-2-pentanone	U	10.0	5.00	10.0	ug/l	1.0						
Acetone	U	10.0	5.00	10.0	ug/l	1.0						
Benzene	U	2.00	1.00	2.00	ug/l	1.0						
Bromoform	U	2.00	2.00	2.00	ug/l	1.0						
Carbon Disulfide	U	10.0	5.00	10.0	ug/l	1.0						
Carbon Tetrachloride	U	2.00	1.00	2.00	ug/l	1.0						
Chlorobenzene	U	2.00	1.00	2.00	ug/l	1.0						
Chlorodibromomethane	U	2.00	1.00	2.00	ug/l	1.0						
Chloroethane	U	2.00	1.00	2.00	ug/l	1.0						
Chloroform	U	2.00	1.00	2.00	ug/l	1.0						
Dichlorobromomethane	U	2.00	1.00	2.00	ug/l	1.0						
Ethylbenzene	U	2.00	1.00	2.00	ug/l	1.0						
ethyl Bromide	U	2.00	1.00	2.00	ug/l	1.0						
ethyl Chloride	U	2.00	1.00	2.00	ug/l	1.0						
Methylene Chloride	JB	4.35	1.00	5.00	ug/l	1.0						

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	
VA	00151	
WI	99988779	

CERTIFICATE OF ANALYSIS

Client: Bechtel
PO Box 350
Oak Ridge, Tennessee 37831-0350
Contact: Ms. Lori Keller
Project Description: Key West/KW

cc: BECH00195 Report Date: July 17, 1995

Sample ID : KW02194 OFW

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M	C
Styrene	U	10.0	5.00	10.0	ug/l	1.0						
Tetrachloroethylene	U	2.00	1.00	2.00	ug/l	1.0	ECP	07/11/95	2335	68892	2	2
Toluene	U	2.00	1.00	2.00	ug/l	1.0						
Trichloroethylene	U	2.00	1.00	2.00	ug/l	1.0						
Vinyl Acetate	U	10.0	5.00	10.0	ug/l	1.0						
Vinyl chloride	U	2.00	1.00	2.00	ug/l	1.0						
Xylenes (TOTAL)	U	20.0	10.0	20.0	ug/l	1.0						
cis-1,3-Dichloropropylene	U	2.00	1.00	2.00	ug/l	1.0						
trans-1,3-Dichloropropylene	U	2.00	1.00	2.00	ug/l	1.0						
General Chemistry												
Total Rec. Petro. Hydrocarbons	U	1000	1000	1000	ug/l	1.0	CAM	07/11/95	1600	68808	3	3

Surrogate Recovery	Test	Percent%	Acceptable Limits
n-propylbenzene	NAP-GC	104.	(52.6 - 155.)
1,2-Dichloroethane-d4	TCL VOLATILES	99.2	(81.0 - 114.)
Bromofluorobenzene	TCL VOLATILES	98.0	(86.6 - 109.)
Toluene-d8	TCL VOLATILES	98.0	(89.6 - 107.)

M = Method	Method-Description
M 1	EPA 8020
M 2	EPA 8240 extended
M 3	EPA 418.1

C = Container	Lab. Container ID	Reference ID
C 1	9506619-07.03	KW0219402
C 2	9506619-07.01	KW0219403
C 3	9506619-07.04	KW0219401

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	
VA	00151	
WI	99988779	

CERTIFICATE OF ANALYSIS

Client: Bechtel
PO Box 350
Oak Ridge, Tennessee 37831-0350
Contact: Ms. Lori Keller
Project Description: Key West/KW

cc: BECH00195 Report Date: July 17, 1995

Sample ID : KW02195 GWT
Lab ID : 9506619-08
Matrix : GroundH2O
Date Collected : 06/29/95
Date Received : 06/30/95
Priority : Routine
Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M	C
Volatile Organics												
Naphthalene	U	2.00	1.50	2.00	ug/l	1.0	JPA	07/12/95	1204	68941	1	1
rget Compound List Volatiles - 35 items												
1,1,1-Trichloroethane	U	2.00	1.00	2.00	ug/l	1.0	ECP	07/12/95	0004	68892	2	2
1,1,2,2-Tetrachloroethane	U	2.00	1.00	2.00	ug/l	1.0						
1,1,2-Trichloroethane	U	2.00	1.00	2.00	ug/l	1.0						
1,1-Dichloroethane	U	2.00	1.00	2.00	ug/l	1.0						
1,1-Dichloroethylene	U	2.00	1.00	2.00	ug/l	1.0						
1,2-Dichloroethane	U	2.00	1.00	2.00	ug/l	1.0						
1,2-Dichloropropane	U	2.00	1.00	2.00	ug/l	1.0						
1,2-cis-Dichloroethylene	U	2.00	1.00	2.00	ug/l	1.0						
1,2-trans-Dichloroethylene	U	2.00	1.00	2.00	ug/l	1.0						
2-Butanone	U	10.0	5.00	10.0	ug/l	1.0						
2-Hexanone	U	10.0	5.00	10.0	ug/l	1.0						
4-Methyl-2-pentanone	U	10.0	5.00	10.0	ug/l	1.0						
Acetone	U	10.0	5.00	10.0	ug/l	1.0						
Benzene	U	2.00	1.00	2.00	ug/l	1.0						
Bromoform	U	2.00	2.00	2.00	ug/l	1.0						
Carbon Disulfide	U	10.0	5.00	10.0	ug/l	1.0						
Carbon Tetrachloride	U	2.00	1.00	2.00	ug/l	1.0						
Chlorobenzene	U	2.00	1.00	2.00	ug/l	1.0						
Chlorodibromomethane	U	2.00	1.00	2.00	ug/l	1.0						
Chloroethane	U	2.00	1.00	2.00	ug/l	1.0						
Chloroform	U	2.00	1.00	2.00	ug/l	1.0						
Dichlorobromomethane	U	2.00	1.00	2.00	ug/l	1.0						
Ethylbenzene	U	2.00	1.00	2.00	ug/l	1.0						
Methyl Bromide	U	2.00	1.00	2.00	ug/l	1.0						
Methyl Chloride	U	2.00	1.00	2.00	ug/l	1.0						
Methylene Chloride	JB	2.43	1.00	5.00	ug/l	1.0						

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	
VA	00151	
WI	99988779	

CERTIFICATE OF ANALYSIS

Client: Bechtel
PO Box 350
Oak Ridge, Tennessee 37831-0350
Contact: Ms. Lori Keller
Project Description: Key West/KW

cc: BECH00195 Report Date: July 17, 1995

Sample ID : KW02195 GWT

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M	C
Styrene	U	10.0	5.00	10.0	ug/l	1.0						
Tetrachloroethylene	U	2.00	1.00	2.00	ug/l	1.0	ECP	07/12/95	0004	68892	2	2
Toluene	U	2.00	1.00	2.00	ug/l	1.0						
Trichloroethylene	U	2.00	1.00	2.00	ug/l	1.0						
Vinyl Acetate	U	10.0	5.00	10.0	ug/l	1.0						
Vinyl chloride	U	2.00	1.00	2.00	ug/l	1.0						
Xylenes (TOTAL)	U	20.0	10.0	20.0	ug/l	1.0						
cis-1,3-Dichloropropylene	U	2.00	1.00	2.00	ug/l	1.0						
trans-1,3-Dichloropropylene	U	2.00	1.00	2.00	ug/l	1.0						
General Chemistry												
Total Rec. Petro. Hydrocarbons	U	1000	1000	1000	ug/l	1.0	CAM	07/11/95	1600	68808	3	3

Surrogate Recovery	Test	Percent%	Acceptable Limits
n-propylbenzene	NAP-GC	105.	(52.6 - 155.)
1,2-Dichloroethane-d4	TCL VOLATILES	100.	(81.0 - 114.)
Bromofluorobenzene	TCL VOLATILES	98.8	(86.6 - 109.)
Toluene-d8	TCL VOLATILES	98.4	(89.6 - 107.)

M = Method	Method-Description
M 1	EPA 8020
M 2	EPA 8240 extended
M 3	EPA 418.1

C = Container	Lab. Container ID	Reference ID
C 1	9506619-08.02	KW0219503
C 2	9506619-08.01	KW0219504
C 3	9506619-08.05	KW0219502

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	
VA	00151	
WI	99988779	

CERTIFICATE OF ANALYSIS

Client: Bechtel
PO Box 350
Oak Ridge, Tennessee 37831-0350
Contact: Ms. Lori Keller
Project Description: Key West/KW

cc: BECH00195 Report Date: July 17, 1995

Sample ID	: KW02196 GWT
Lab ID	: 9506619-09
Matrix	: GroundH2O
Date Collected	: 06/29/95
Date Received	: 06/30/95
Priority	: Routine
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M	C
Volatile Organics												
Naphthalene	U	2.00	1.50	2.00	ug/l	1.0	JPA	07/12/95	1358	68941	1	1
Target Compound List Volatiles - 35 items												
1,1,1-Trichloroethane	U	2.00	1.00	2.00	ug/l	1.0	ECP	07/12/95	0034	68892	2	2
1,1,2,2-Tetrachloroethane	U	2.00	1.00	2.00	ug/l	1.0						
1,1,2-Trichloroethane	U	2.00	1.00	2.00	ug/l	1.0						
1,1-Dichloroethane	U	2.00	1.00	2.00	ug/l	1.0						
1,1-Dichloroethylene	U	2.00	1.00	2.00	ug/l	1.0						
1,2-Dichloroethane	U	2.00	1.00	2.00	ug/l	1.0						
1,2-Dichloropropane	U	2.00	1.00	2.00	ug/l	1.0						
1,2-cis-Dichloroethylene	U	2.00	1.00	2.00	ug/l	1.0						
1,2-trans-Dichloroethylene	U	2.00	1.00	2.00	ug/l	1.0						
2-Butanone	U	10.0	5.00	10.0	ug/l	1.0						
2-Hexanone	U	10.0	5.00	10.0	ug/l	1.0						
4-Methyl-2-pentanone	U	10.0	5.00	10.0	ug/l	1.0						
Acetone	U	10.0	5.00	10.0	ug/l	1.0						
Benzene	U	2.00	1.00	2.00	ug/l	1.0						
Bromoform	U	2.00	2.00	2.00	ug/l	1.0						
Carbon Disulfide	U	10.0	5.00	10.0	ug/l	1.0						
Carbon Tetrachloride	U	2.00	1.00	2.00	ug/l	1.0						
Chlorobenzene	U	2.00	1.00	2.00	ug/l	1.0						
Chlorodibromomethane	U	2.00	1.00	2.00	ug/l	1.0						
Chloroethane	U	2.00	1.00	2.00	ug/l	1.0						
Chloroform	U	2.00	1.00	2.00	ug/l	1.0						
Dichlorobromomethane	U	2.00	1.00	2.00	ug/l	1.0						
Ethylbenzene	U	2.00	1.00	2.00	ug/l	1.0						
Methyl Bromide	U	2.00	1.00	2.00	ug/l	1.0						
Methyl Chloride	U	2.00	1.00	2.00	ug/l	1.0						
Methylene Chloride	JB	2.19	1.00	5.00	ug/l	1.0						

GENERAL ENGINEERING LABORATORIES

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Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	
VA	00151	
WI	99988779	

CERTIFICATE OF ANALYSIS

Client: Bechtel
PO Box 350
Oak Ridge, Tennessee 37831-0350
Contact: Ms. Lori Keller
Project Description: Key West/KW

cc: BECH00195 Report Date: July 17, 1995

Sample ID : KW02196 GWT

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M	C
Styrene	U	10.0	5.00	10.0	ug/l	1.0						
Tetrachloroethylene	U	2.00	1.00	2.00	ug/l	1.0	ECP	07/12/95	0034	68892	2	2
Toluene	U	2.00	1.00	2.00	ug/l	1.0						
Trichloroethylene	U	2.00	1.00	2.00	ug/l	1.0						
Vinyl Acetate	U	10.0	5.00	10.0	ug/l	1.0						
Vinyl chloride	U	2.00	1.00	2.00	ug/l	1.0						
Xylenes (TOTAL)	U	20.0	10.0	20.0	ug/l	1.0						
cis-1,3-Dichloropropylene	U	2.00	1.00	2.00	ug/l	1.0						
trans-1,3-Dichloropropylene	U	2.00	1.00	2.00	ug/l	1.0						
General Chemistry												
Total Rec. Petro. Hydrocarbons		1120	1000	1000	ug/l	1.0	CAM	07/11/95	1600	68808	3	3

Surrogate Recovery	Test	Percent%	Acceptable Limits
n-propylbenzene	NAP-GC	105.	(52.6 - 155.)
1,2-Dichloroethane-d4	TCL VOLATILES	103.	(81.0 - 114.)
Bromofluorobenzene	TCL VOLATILES	100.	(86.6 - 109.)
Toluene-d8	TCL VOLATILES	97.2	(89.6 - 107.)

M = Method	Method-Description
M 1	EPA 8020
M 2	EPA 8240 extended
M 3	EPA 418.1

C = Container	Lab. Container ID	Reference ID
C 1	9506619-09.02	KW0219603
C 2	9506619-09.03	KW0219604
C 3	9506619-09.04	KW0219602

GENERAL ENGINEERING LABORATORIES

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Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	
VA	00151	
WI	99988779	

CERTIFICATE OF ANALYSIS

Client: Bechtel
PO Box 350
Oak Ridge, Tennessee 37831-0350
Contact: Ms. Lori Keller
Project Description: Key West/KW

cc: BECH00195 Report Date: July 17, 1995

Sample ID : KW02197 GWT
Lab ID : 9506619-10
Matrix : GroundH2O
Date Collected : 06/29/95
Date Received : 06/30/95
Priority : Routine
Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M	C
Volatile Organics												
Naphthalene	U	2.00	1.50	2.00	ug/l	1.0	JPA	07/12/95	1421	68941	1	1
Target Compound List Volatiles - 35 items												
1,1,1-Trichloroethane	U	2.00	1.00	2.00	ug/l	1.0	ECP	07/12/95	0104	68892	2	2
1,1,2,2-Tetrachloroethane	U	2.00	1.00	2.00	ug/l	1.0						
1,1,2-Trichloroethane	U	2.00	1.00	2.00	ug/l	1.0						
1,1-Dichloroethane	U	2.00	1.00	2.00	ug/l	1.0						
1,1-Dichloroethylene	U	2.00	1.00	2.00	ug/l	1.0						
1,2-Dichloroethane	U	2.00	1.00	2.00	ug/l	1.0						
1,2-Dichloropropane	U	2.00	1.00	2.00	ug/l	1.0						
1,2-cis-Dichloroethylene	U	2.00	1.00	2.00	ug/l	1.0						
1,2-trans-Dichloroethylene	U	2.00	1.00	2.00	ug/l	1.0						
2-Butanone	U	10.0	5.00	10.0	ug/l	1.0						
2-Hexanone	U	10.0	5.00	10.0	ug/l	1.0						
4-Methyl-2-pentanone	U	10.0	5.00	10.0	ug/l	1.0						
Acetone	U	10.0	5.00	10.0	ug/l	1.0						
Benzene	U	2.00	1.00	2.00	ug/l	1.0						
Bromoform	U	2.00	2.00	2.00	ug/l	1.0						
Carbon Disulfide	U	10.0	5.00	10.0	ug/l	1.0						
Carbon Tetrachloride	U	2.00	1.00	2.00	ug/l	1.0						
Chlorobenzene	U	2.00	1.00	2.00	ug/l	1.0						
Chlorodibromomethane	U	2.00	1.00	2.00	ug/l	1.0						
Chloroethane	U	2.00	1.00	2.00	ug/l	1.0						
Chloroform	U	2.00	1.00	2.00	ug/l	1.0						
Dichlorobromomethane	U	2.00	1.00	2.00	ug/l	1.0						
Ethylbenzene	U	2.00	1.00	2.00	ug/l	1.0						
Methyl Bromide	U	2.00	1.00	2.00	ug/l	1.0						
Methyl Chloride	U	2.00	1.00	2.00	ug/l	1.0						
Methylene Chloride	JB	3.06	1.00	5.00	ug/l	1.0						

GENERAL ENGINEERING LABORATORIES

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Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	
VA	00151	
WI	99988779	

CERTIFICATE OF ANALYSIS

Client: Bechtel
PO Box 350
Oak Ridge, Tennessee 37831-0350
Contact: Ms. Lori Keller
Project Description: Key West/KW

cc: BECH00195 Report Date: July 17, 1995

Sample ID : KW02197 GWT

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M	C
Styrene	U	10.0	5.00	10.0	ug/l	1.0						
Tetrachloroethylene	U	2.00	1.00	2.00	ug/l	1.0	ECP	07/12/95	0104	68892	2	2
Toluene	U	2.00	1.00	2.00	ug/l	1.0						
Trichloroethylene	U	2.00	1.00	2.00	ug/l	1.0						
Vinyl Acetate	U	10.0	5.00	10.0	ug/l	1.0						
Vinyl chloride	U	2.00	1.00	2.00	ug/l	1.0						
Xylenes (TOTAL)	U	20.0	10.0	20.0	ug/l	1.0						
cis-1,3-Dichloropropylene	U	2.00	1.00	2.00	ug/l	1.0						
trans-1,3-Dichloropropylene	U	2.00	1.00	2.00	ug/l	1.0						
General Chemistry												
Total Rec. Petro. Hydrocarbons	U	1000	1000	1000	ug/l	1.0	CAM	07/11/95	1600	68808	3	3

Surrogate Recovery	Test	Percent%	Acceptable Limits
n-propylbenzene	NAP-GC	104.	(52.6 - 155.)
1,2-Dichloroethane-d4	TCL VOLATILES	100.	(81.0 - 114.)
Bromofluorobenzene	TCL VOLATILES	99.6	(86.6 - 109.)
Toluene-d8	TCL VOLATILES	98.4	(89.6 - 107.)

M = Method	Method-Description
M 1	EPA 8020
M 2	EPA 8240 extended
M 3	EPA 418.1

C = Container	Lab. Container ID	Reference ID
C 1	9506619-10.03	KW0219703
C 2	9506619-10.01	KW0219705
C 3	9506619-10.05	KW0219701

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Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	223	
SC	10120	10582
TN	02934	
VA	00151	
WI	99988779	

CERTIFICATE OF ANALYSIS

Client: Bechtel
PO Box 350
Oak Ridge, Tennessee 37831-0350
Contact: Ms. Lori Keller
Project Description: Key West/KW

cc: BECH00195 Report Date: August 14, 1995

Sample ID	: KW02198 GWT
Lab ID	: 9507512-09
Matrix	: GroundH2O
Date Collected	: 07/23/95
Date Received	: 07/26/95
Priority	: Routine
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M	C
Volatile Organics												
Naphthalene	U	2.00	1.50	2.00	ug/l	1.0	THL	07/31/95	1124	70118	1	1

Surrogate Recovery	Test	Percent%	Acceptable Limits
n-propylbenzene	NAP-GC	92.0	(52.6 - 155.)

M = Method	Method-Description
M 1	EPA 8020

C = Container	Lab. Container ID	Reference ID
C 1	9507512-09.01	KW0219804

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9507512-09*

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Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	
VA	00151	
WV	9998X229	

CERTIFICATE OF ANALYSIS

Client: Bechtel
PO Box 350
Oak Ridge, Tennessee 37831-0350
Contact: Ms. Lori Keller
Project Description: Key West/KW

cc: BECH00195 Report Date: August 01, 1995

Sample ID : KW02199 GWT
Lab ID : 9507512-02
Matrix : GroundH2O
Date Collected : 07/25/95
Date Received : 07/26/95
Priority : Rush
Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M	C
Volatile Organics												
Target Compound List Volatiles - 35 items												
1,1,1-Trichloroethane	U	2.00	1.00	2.00	ug/l	1.0	JRU	07/28/95	2027	69768	1	N
1,1,2,2-Tetrachloroethane	U	10.0	5.00	10.0	ug/l	1.0						
1,1,2-Trichloroethane	U	2.00	1.00	2.00	ug/l	1.0						
1,1-Dichloroethane	U	2.00	1.00	2.00	ug/l	1.0						
1,1-Dichloroethylene	U	2.00	1.00	2.00	ug/l	1.0						
1,2-Dichloroethane	U	2.00	1.00	2.00	ug/l	1.0						
1,2-Dichloropropane	U	2.00	1.00	2.00	ug/l	1.0						
1,2-cis-Dichloroethylene	U	2.00	1.00	2.00	ug/l	1.0						
1,2-trans-Dichloroethylene	U	2.00	1.00	2.00	ug/l	1.0						
2-Butanone	U	10.0	5.00	10.0	ug/l	1.0						
2-Hexanone	U	10.0	5.00	10.0	ug/l	1.0						
4-Methyl-2-pentanone	U	10.0	5.00	10.0	ug/l	1.0						
Acetone	J	5.17	5.00	10.0	ug/l	1.0						
Benzene	U	2.00	1.00	2.00	ug/l	1.0						
Bromoform	U	2.00	2.00	2.00	ug/l	1.0						
Carbon Disulfide	U	10.0	5.00	10.0	ug/l	1.0						
Carbon Tetrachloride	U	2.00	1.00	2.00	ug/l	1.0						
Chlorobenzene	U	2.00	1.00	2.00	ug/l	1.0						
Chlorodibromomethane	U	2.00	1.00	2.00	ug/l	1.0						
Chloroethane	U	2.00	1.00	2.00	ug/l	1.0						
Chloroform	U	2.00	1.00	2.00	ug/l	1.0						
Dichlorobromomethane	U	2.00	1.00	2.00	ug/l	1.0						
Ethylbenzene	U	2.00	1.00	2.00	ug/l	1.0						
Methyl Bromide	U	2.00	1.00	2.00	ug/l	1.0						
Methyl Chloride	U	2.00	1.00	2.00	ug/l	1.0						
Methylene Chloride	U	5.00	1.00	5.00	ug/l	1.0						
Styrene	U	10.0	5.00	10.0	ug/l	1.0						

GENERAL ENGINEERING LABORATORIES

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Laboratory Certifications

STATE	GEL	EPI
FL	E37156/87294	H87472/87453
NC	233	
SC	10120	10582
TN	02934	
VA	00151	
WI	99982779	

CERTIFICATE OF ANALYSIS

Client: Bechtel
PO Box 350
Oak Ridge, Tennessee 37831-0350
Contact: Ms. Lori Keller
Project Description: Key West/KW

cc: BECH00195 Report Date: August 01, 1995

Sample ID : KW02198 GWT
Lab ID : 9507512-01
Matrix : Ground H2O
Date Collected : 07/25/95
Date Received : 07/26/95
Priority : Rush
Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M	C
Volatile Organics												
Target Compound List Volatiles - 35 items												
1,1,1-Trichloroethane	U	2.00	1.00	2.00	ug/l	1.0	JRU	07/28/95	1956	69768	1	N
1,1,2,2-Tetrachloroethane	U	10.0	5.00	10.0	ug/l	1.0						
1,1,2-Trichloroethane	U	2.00	1.00	2.00	ug/l	1.0						
1,1-Dichloroethane	U	2.00	1.00	2.00	ug/l	1.0						
1,1-Dichloroethylene	U	2.00	1.00	2.00	ug/l	1.0						
1,2-Dichloroethane	U	2.00	1.00	2.00	ug/l	1.0						
1,2-Dichloropropane	U	2.00	1.00	2.00	ug/l	1.0						
1,2-cis-Dichloroethylene	U	2.00	1.00	2.00	ug/l	1.0						
1,2-trans-Dichloroethylene	U	2.00	1.00	2.00	ug/l	1.0						
2-Butanone	U	10.0	5.00	10.0	ug/l	1.0						
2-Hexanone	U	10.0	5.00	10.0	ug/l	1.0						
4-Methyl-2-pentanone	U	10.0	5.00	10.0	ug/l	1.0						
Acetone	J	5.36	5.00	10.0	ug/l	1.0						
Benzene	U	2.00	1.00	2.00	ug/l	1.0						
Bromoform	U	2.00	2.00	2.00	ug/l	1.0						
Carbon Disulfide	U	10.0	5.00	10.0	ug/l	1.0						
Carbon Tetrachloride	U	2.00	1.00	2.00	ug/l	1.0						
Chlorobenzene	U	2.00	1.00	2.00	ug/l	1.0						
Chlorodibromomethane	U	2.00	1.00	2.00	ug/l	1.0						
Chloroethane	U	2.00	1.00	2.00	ug/l	1.0						
Chloroform	U	2.00	1.00	2.00	ug/l	1.0						
Dichlorobromomethane	U	2.00	1.00	2.00	ug/l	1.0						
Ethylbenzene	U	2.00	1.00	2.00	ug/l	1.0						
Methyl Bromide	U	2.00	1.00	2.00	ug/l	1.0						
Methyl Chloride	U	2.00	1.00	2.00	ug/l	1.0						
Methylene Chloride	J	0.450	1.00	5.00	ug/l	1.0						
Styrene	U	10.0	5.00	10.0	ug/l	1.0						

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	CHL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	
VA	00151	
WI	99988779	

CERTIFICATE OF ANALYSIS

Client: Bechtel
PO Box 350
Oak Ridge, Tennessee 37831-0350
Contact: Ms. Lori Keller
Project Description: Key West/KW

cc: BECH00195 Report Date: August 01, 1995

Sample ID : KW02198 GWT

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M	C
Tetrachloroethylene	J	0.0681	1.00	2.00	ug/l	1.0						
Toluene	J	0.0610	1.00	2.00	ug/l	1.0	JRU	07/28/95	1956	69768	1	N
Trichloroethylene	U	2.00	1.00	2.00	ug/l	1.0						
Vinyl Acetate	U	10.0	5.00	10.0	ug/l	1.0						
Vinyl chloride	U	2.00	1.00	2.00	ug/l	1.0						
Xylenes (TOTAL)	U	20.0	10.0	20.0	ug/l	1.0						
cis-1,3-Dichloropropylene	U	2.00	1.00	2.00	ug/l	1.0						
trans-1,3-Dichloropropylene	U	2.00	1.00	2.00	ug/l	1.0						

Surrogate Recovery	Test	Percent%	Acceptable Limits
1,2-Dichloroethane-d4	TCL VOLATILES	86.3	(81.0 - 114.)
Bromofluorobenzene	TCL VOLATILES	101.	(86.6 - 109.)
Toluene-d8	TCL VOLATILES	97.2	(89.6 - 107.)

M = Method	Method Description
M 1	EPA 8240 extended

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	
VA	00151	
WI	99988779	

CERTIFICATE OF ANALYSIS

Client: Bechtel
PO Box 350
Oak Ridge, Tennessee 37831-0350
Contact: Ms. Lori Keller
Project Description: Key West/KW

cc: BECH00195 Report Date: August 01, 1995

Sample ID : KW02199 GWT

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M	C
Tetrachloroethylene	U	2.00	1.00	2.00	ug/l	1.0						
Toluene	U	2.00	1.00	2.00	ug/l	1.0	JRU	07/28/95	2027	69768	1	N
Trichloroethylene	U	2.00	1.00	2.00	ug/l	1.0						
Vinyl Acetate	U	10.0	5.00	10.0	ug/l	1.0						
Vinyl chloride	U	2.00	1.00	2.00	ug/l	1.0						
Xylenes (TOTAL)	U	20.0	10.0	20.0	ug/l	1.0						
cis-1,3-Dichloropropylene	U	2.00	1.00	2.00	ug/l	1.0						
trans-1,3-Dichloropropylene	U	2.00	1.00	2.00	ug/l	1.0						

Surrogate Recovery	Test	Percent %	Acceptable Limits
1,2-Dichloroethane-d4	TCL VOLATILES	108.	(81.0 - 114.)
Bromofluorobenzene	TCL VOLATILES	102.	(86.6 - 109.)
Toluene-d8	TCL VOLATILES	98.0	(89.6 - 107.)

M = Method	Method-Description
M 1	EPA 8240 extended

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Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02994	
VA	00131	
WI	99988779	

CERTIFICATE OF ANALYSIS

Client: Bechtel
PO Box 350
Oak Ridge, Tennessee 37831-0350
Contact: Ms. Lori Keller
Project Description: Key West/KW

cc: BECH00195 Report Date: August 14, 1995

Sample ID	: KW02199 GWT
Lab ID	: 9507512-10
Matrix	: GroundH2O
Date Collected	: 07/25/95
Date Received	: 07/26/95
Priority	: Routine
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M	C
Volatile Organics												
Naphthalene	U	2.00	1.50	2.00	ug/l	1.0	THL	07/31/95	1437	70118	1	1

Surrogate Recovery	Test	Percent%	Acceptable Limits
n-propylbenzene	NAP-GC	90.8	(52.6 - 155.)

M = Method	Method-Description
M 1	EPA 8020

C = Container	Lab. Container ID	Reference ID
C 1	9507512-10.01	KW0219904

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9507512-10*

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Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87453
NC	233	
SC	10120	10582
TN	02934	
VA	00151	
WI	999825779	

CERTIFICATE OF ANALYSIS

Client: Bechtel
PO Box 350
Oak Ridge, Tennessee 37831-0350
Contact: Ms. Lori Keller
Project Description: Key West/KW

cc: BECH00195 Report Date: August 01, 1995

Sample ID : KW02200 GWT
Lab ID : 9507512-03
Matrix : GroundH2O
Date Collected : 07/25/95
Date Received : 07/26/95
Priority : Rush
Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M	C
Volatile Organics												
Target Compound List Volatiles - 35 items												
1,1,1-Trichloroethane	U	2.00	1.00	2.00	ug/l	1.0	JRU	07/28/95	2058	59768	1	N
1,1,2,2-Tetrachloroethane	U	10.0	5.00	10.0	ug/l	1.0						
1,1,2-Trichloroethane	U	2.00	1.00	2.00	ug/l	1.0						
1,1-Dichloroethane	U	2.00	1.00	2.00	ug/l	1.0						
1,1-Dichloroethylene	U	2.00	1.00	2.00	ug/l	1.0						
1,2-Dichloroethane	U	2.00	1.00	2.00	ug/l	1.0						
1,2-Dichloropropane	U	2.00	1.00	2.00	ug/l	1.0						
1,2-cis-Dichloroethylene	U	2.00	1.00	2.00	ug/l	1.0						
1,2-trans-Dichloroethylene	U	2.00	1.00	2.00	ug/l	1.0						
2-Butanone	U	10.0	5.00	10.0	ug/l	1.0						
2-Hexanone	U	10.0	5.00	10.0	ug/l	1.0						
4-Methyl-2-pentanone	U	10.0	5.00	10.0	ug/l	1.0						
Acetone	U	10.0	5.00	10.0	ug/l	1.0						
Benzene	U	2.00	1.00	2.00	ug/l	1.0						
Bromoform	U	2.00	2.00	2.00	ug/l	1.0						
Carbon Disulfide	U	10.0	5.00	10.0	ug/l	1.0						
Carbon Tetrachloride	U	2.00	1.00	2.00	ug/l	1.0						
Chlorobenzene	U	2.00	1.00	2.00	ug/l	1.0						
Chlorodibromomethane	U	2.00	1.00	2.00	ug/l	1.0						
Chloroethane	U	2.00	1.00	2.00	ug/l	1.0						
Chloroform	J	1.14	1.00	2.00	ug/l	1.0						
Dichlorobromomethane	J	0.267	1.00	2.00	ug/l	1.0						
Ethylbenzene	U	2.00	1.00	2.00	ug/l	1.0						
Methyl Bromide	U	2.00	1.00	2.00	ug/l	1.0						
Methyl Chloride	U	2.00	1.00	2.00	ug/l	1.0						
Methylene Chloride	U	5.00	1.00	5.00	ug/l	1.0						
Styrene	U	10.0	5.00	10.0	ug/l	1.0						

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GENERAL ENGINEERING LABORATORIES

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Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	
VA	00151	
WI	99988779	

CERTIFICATE OF ANALYSIS

Client: Bechtel
PO Box 350
Oak Ridge, Tennessee 37831-0350
Contact: Ms. Lori Keller
Project Description: Key West/KW

cc: BECH00195 Report Date: August 01, 1995

Sample ID : KW02200 GWT

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M	C
Tetrachloroethylene	U	2.00	1.00	2.00	ug/l	1.0						
Toluene	J	0.179	1.00	2.00	ug/l	1.0	JRU	07/28/95	2058	69768	1	N
Trichloroethylene	U	2.00	1.00	2.00	ug/l	1.0						
Vinyl Acetate	U	10.0	5.00	10.0	ug/l	1.0						
Vinyl chloride	U	2.00	1.00	2.00	ug/l	1.0						
Xylenes (TOTAL)	U	20.0	10.0	20.0	ug/l	1.0						
cis-1,3-Dichloropropylene	U	2.00	1.00	2.00	ug/l	1.0						
trans-1,3-Dichloropropylene	U	2.00	1.00	2.00	ug/l	1.0						

Surrogate Recovery	Test	Percent%	Acceptable Limits
1,2-Dichloroethane-d4	TCL VOLATILES	112.	(81.0 - 114.)
Bromofluorobenzene	TCL VOLATILES	104.	(86.6 - 109.)
Toluene-d8	TCL VOLATILES	98.8	(89.6 - 107.)

M = Method	Method-Description
M 1	EPA 8240 extended

GENERAL ENGINEERING LABORATORIES

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Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	
VA	00151	
WI	99988779	

CERTIFICATE OF ANALYSIS

Client: Bechtel
PO Box 350
Oak Ridge, Tennessee 37831-0350
Contact: Ms. Lori Keller
Project Description: Key West/KW

cc: BECH00195 Report Date: August 14, 1995

Sample ID	: KW02200 GWT
Lab ID	: 9507512-11
Matrix	: GroundH2O
Date Collected	: 07/25/95
Date Received	: 07/26/95
Priority	: Routine
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M	C
Volatile Organics												
Naphthalene	U	2.00	1.50	2.00	ug/l	1.0	THL	07/31/95	1505	70118	1	1

Surrogate Recovery	Test	Percent%	Acceptable Limits
n-propylbenzene	NAP-GC	94.8	(52.6 - 155.)

M = Method	Method-Description
M 1	EPA 8020

C = Container	Lab. Container ID	Reference ID
C 1	9507512-11.01	KW0220004

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9507512-11

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Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10532
TN	02934	
VA	00151	
WI	99948779	

CERTIFICATE OF ANALYSIS

Client: Bechtel
PO Box 350
Oak Ridge, Tennessee 37831-0350
Contact: Ms. Lori Keller
Project Description: Key West/KW

cc: BECH00195 Report Date: August 01, 1995

Sample ID	: KW02201 GWT
Lab ID	: 9507512-04
Matrix	: GroundH2O
Date Collected	: 07/25/95
Date Received	: 07/26/95
Priority	: Rush
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M	C
Volatile Organics												
Target Compound List Volatiles - 35 items												
1,1,1-Trichloroethane	U	2.00	1.00	2.00	ug/l	1.0	JRU	07/28/95	2130	69768	1	N
1,1,2,2-Tetrachloroethane	U	10.0	5.00	10.0	ug/l	1.0						
1,1,2-Trichloroethane	U	2.00	1.00	2.00	ug/l	1.0						
1,1-Dichloroethane	U	2.00	1.00	2.00	ug/l	1.0						
1,1-Dichloroethylene	U	2.00	1.00	2.00	ug/l	1.0						
1,2-Dichloroethane	U	2.00	1.00	2.00	ug/l	1.0						
1,2-Dichloropropane	U	2.00	1.00	2.00	ug/l	1.0						
1,2-cis-Dichloroethylene	U	2.00	1.00	2.00	ug/l	1.0						
1,2-trans-Dichloroethylene	U	2.00	1.00	2.00	ug/l	1.0						
2-Butanone	U	10.0	5.00	10.0	ug/l	1.0						
2-Hexanone	U	10.0	5.00	10.0	ug/l	1.0						
4-Methyl-2-pentanone	U	10.0	5.00	10.0	ug/l	1.0						
Acetone	J	6.85	5.00	10.0	ug/l	1.0						
Benzene	U	2.00	1.00	2.00	ug/l	1.0						
Bromoform	U	2.00	2.00	2.00	ug/l	1.0						
Carbon Disulfide	U	10.0	5.00	10.0	ug/l	1.0						
Carbon Tetrachloride	U	2.00	1.00	2.00	ug/l	1.0						
Chlorobenzene	U	2.00	1.00	2.00	ug/l	1.0						
Chlorodibromomethane	U	2.00	1.00	2.00	ug/l	1.0						
Chloroethane	U	2.00	1.00	2.00	ug/l	1.0						
Chloroform	U	2.00	1.00	2.00	ug/l	1.0						
Dichlorobromomethane	U	2.00	1.00	2.00	ug/l	1.0						
Ethylbenzene	U	2.00	1.00	2.00	ug/l	1.0						
Methyl Bromide	U	2.00	1.00	2.00	ug/l	1.0						
Methyl Chloride	U	2.00	1.00	2.00	ug/l	1.0						
Methylene Chloride	U	5.00	1.00	5.00	ug/l	1.0						
Styrene	U	10.0	5.00	10.0	ug/l	1.0						

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Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	
VA	00131	
WV	99985279	

CERTIFICATE OF ANALYSIS

Client: Bechtel
PO Box 350
Oak Ridge, Tennessee 37831-0350
Contact: Ms. Lori Keller
Project Description: Key West/KW

cc: BECH00195 Report Date: August 01, 1995

Sample ID : KW02201 GWT

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M	C
Tetrachloroethylene	U	2.00	1.00	2.00	ug/l	1.0						
Toluene	J	0.209	1.00	2.00	ug/l	1.0	JRU	07/28/95	2130	69768	1	N
Trichloroethylene	U	2.00	1.00	2.00	ug/l	1.0						
Vinyl Acetate	U	10.0	5.00	10.0	ug/l	1.0						
Vinyl chloride	U	2.00	1.00	2.00	ug/l	1.0						
Xylenes (TOTAL)	U	20.0	10.0	20.0	ug/l	1.0						
cis-1,3-Dichloropropylene	U	2.00	1.00	2.00	ug/l	1.0						
trans-1,3-Dichloropropylene	U	2.00	1.00	2.00	ug/l	1.0						

Surrogate Recovery	Test	Percent%	Acceptable Limits
1,2-Dichloroethane-d4	TCL VOLATILES	107.	(81.0 - 114.)
Bromofluorobenzene	TCL VOLATILES	100.	(86.6 - 109.)
Toluene-d8	TCL VOLATILES	98.0	(89.6 - 107.)

M = Method	Method-Description
M 1	EPA 8240 extended

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Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	
VA	00151	
WI	99988779	

CERTIFICATE OF ANALYSIS

Client: Bechtel
PO Box 350
Oak Ridge, Tennessee 37831-0350
Contact: Ms. Lori Keller
Project Description: Key West/KW

cc: BECH00195 Report Date: August 14, 1995

Sample ID : KW02201 GWT
Lab ID : 9507512-12
Matrix : GroundH2O
Date Collected : 07/25/95
Date Received : 07/26/95
Priority : Routine
Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M	C
Volatile Organics												
Naphthalene	U	2.00	1.50	2.00	ug/l	1.0	THL	07/31/95	1533	70118	1	1

Surrogate Recovery	Test	Percent %	Acceptable Limits
n-propylbenzene	NAP-GC	96.2	(52.6 - 155.)

M = Method	Method-Description
M 1	EPA 8020

C = Container	Lab. Container ID	Reference ID
C 1	9507512-12.01	KW0220104

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Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87451
NC	233	
SC	10120	10582
TN	02934	
VA	00151	
WI	999885779	

CERTIFICATE OF ANALYSIS

Client: Bechtel
PO Box 350
Oak Ridge, Tennessee 37831-0350
Contact: Ms. Lori Keller
Project Description: Key West/KW

cc: BECH00195 Report Date: August 01, 1995

Sample ID : KW02202 OFW
Lab ID : 9507512-05
Matrix : GroundH2O
Date Collected : 07/25/95
Date Received : 07/26/95
Priority : Rush
Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M	C
Volatile Organics												
Target Compound List Volatiles - 35 items												
1,1,1-Trichloroethane	U	2.00	1.00	2.00	ug/l	1.0	JRU	07/28/95	1424	69768	1	N
1,1,2,2-Tetrachloroethane	U	10.0	5.00	10.0	ug/l	1.0						
1,1,2-Trichloroethane	U	2.00	1.00	2.00	ug/l	1.0						
1,1-Dichloroethane	U	2.00	1.00	2.00	ug/l	1.0						
1,1-Dichloroethylene	U	2.00	1.00	2.00	ug/l	1.0						
1,2-Dichloroethane	U	2.00	1.00	2.00	ug/l	1.0						
1,2-Dichloropropane	U	2.00	1.00	2.00	ug/l	1.0						
1,2-cis-Dichloroethylene	U	2.00	1.00	2.00	ug/l	1.0						
1,2-trans-Dichloroethylene	U	2.00	1.00	2.00	ug/l	1.0						
2-Butanone	U	10.0	5.00	10.0	ug/l	1.0						
2-Hexanone	J	1.32	5.00	10.0	ug/l	1.0						
4-Methyl-2-pentanone	U	10.0	5.00	10.0	ug/l	1.0						
Acetone	J	8.10	5.00	10.0	ug/l	1.0						
Benzene	U	2.00	1.00	2.00	ug/l	1.0						
Bromoform	U	2.00	2.00	2.00	ug/l	1.0						
Carbon Disulfide	U	10.0	5.00	10.0	ug/l	1.0						
Carbon Tetrachloride	U	2.00	1.00	2.00	ug/l	1.0						
Chlorobenzene	U	2.00	1.00	2.00	ug/l	1.0						
Chlorodibromomethane	J	1.03	1.00	2.00	ug/l	1.0						
Chloroethane	U	2.00	1.00	2.00	ug/l	1.0						
Chloroform		27.9	1.00	2.00	ug/l	1.0						
Dichlorobromomethane		6.29	1.00	2.00	ug/l	1.0						
Ethylbenzene	U	2.00	1.00	2.00	ug/l	1.0						
Methyl Bromide	U	2.00	1.00	2.00	ug/l	1.0						
Methyl Chloride	U	2.00	1.00	2.00	ug/l	1.0						
Methylene Chloride	J	1.20	1.00	5.00	ug/l	1.0						
Styrene	J	0.349	5.00	10.0	ug/l	1.0						

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Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	232	
SC	10120	10582
TN	02934	
VA	00151	
WI	99988779	

CERTIFICATE OF ANALYSIS

Client: Bechtel
PO Box 350
Oak Ridge, Tennessee 37831-0350
Contact: Ms. Lori Keller
Project Description: Key West/KW

cc: BECH00195

Report Date: August 01, 1995

Sample ID : KW02202 OFW

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M	C
Tetrachloroethylene	U	2.00	1.00	2.00	ug/l	1.0						
Toluene	U	2.00	1.00	2.00	ug/l	1.0	JRU	07/28/95	1424	69768	1	N
Trichloroethylene	U	2.00	1.00	2.00	ug/l	1.0						
Vinyl Acetate	U	10.0	5.00	10.0	ug/l	1.0						
Vinyl chloride	U	2.00	1.00	2.00	ug/l	1.0						
Xylenes (TOTAL)	J	0.283	10.0	20.0	ug/l	1.0						
cis-1,3-Dichloropropylene	U	2.00	1.00	2.00	ug/l	1.0						
trans-1,3-Dichloropropylene	U	2.00	1.00	2.00	ug/l	1.0						

Surrogate Recovery	Test	Percent%	Acceptable Limits
1,2-Dichloroethane-d4	TCL VOLATILES	109.	(81.0 - 114.)
Bromofluorobenzene	TCL VOLATILES	102.	(86.6 - 109.)
Toluene-d8	TCL VOLATILES	97.6	(89.6 - 107.)

M = Method	Method-Description
M 1	EPA 8240 extended

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Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	
VA	00151	
WI	99988779	

CERTIFICATE OF ANALYSIS

Client: Bechtel
PO Box 350
Oak Ridge, Tennessee 37831-0350
Contact: Ms. Lori Keller
Project Description: Key West/KW

cc: BECH00195 Report Date: August 14, 1995

Sample ID	: KW02202 OFW
Lab ID	: 9507512-13
Matrix	: GroundH2O
Date Collected	: 07/25/95
Date Received	: 07/26/95
Priority	: Routine
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M	C
Volatile Organics												
Naphthalene	U	2.00	1.50	2.00	ug/l	1.0	THL	07/31/95	1602	70118	1	1

Surrogate Recovery	Test	Percent%	Acceptable Limits
n-propylbenzene	NAP-GC	94.6	(52.6 - 155.)

M = Method	Method-Description
M 1	EPA 8020

C = Container	Lab. Container ID	Reference ID
C 1	9507512-13.01	KW0220204

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Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87451
NC	233	
SC	10120	10582
TN	02934	
VA	00151	
WI	99988779	

CERTIFICATE OF ANALYSIS

Client: Bechtel
PO Box 350
Oak Ridge, Tennessee 37831-0350
Contact: Ms. Lori Keller
Project Description: Key West/KW

cc: BECH00195 Report Date: August 01, 1995

Sample ID : KW02203 GWT
Lab ID : 9507512-06
Matrix : GroundH2O
Date Collected : 07/25/95
Date Received : 07/26/95
Priority : Rush
Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M	C
Volatile Organics												
Target Compound List Volatiles - 35 items												
1,1,1-Trichloroethane	U	2.00	1.00	2.00	ug/l	1.0	JRU	07/28/95	2201	69768	1	N
1,1,2,2-Tetrachloroethane	U	10.0	5.00	10.0	ug/l	1.0						
1,1,2-Trichloroethane	U	2.00	1.00	2.00	ug/l	1.0						
1,1-Dichloroethane	U	2.00	1.00	2.00	ug/l	1.0						
1,1-Dichloroethylene	U	2.00	1.00	2.00	ug/l	1.0						
1,2-Dichloroethane	U	2.00	1.00	2.00	ug/l	1.0						
1,2-Dichloropropane	U	2.00	1.00	2.00	ug/l	1.0						
1,2-cis-Dichloroethylene	U	2.00	1.00	2.00	ug/l	1.0						
1,2-trans-Dichloroethylene	U	2.00	1.00	2.00	ug/l	1.0						
2-Butanone	U	10.0	5.00	10.0	ug/l	1.0						
2-Hexanone	J	2.32	5.00	10.0	ug/l	1.0						
4-Methyl-2-pentanone	U	10.0	5.00	10.0	ug/l	1.0						
Acetone	J	7.58	5.00	10.0	ug/l	1.0						
Benzene	U	2.00	1.00	2.00	ug/l	1.0						
Bromoform	U	2.00	2.00	2.00	ug/l	1.0						
Carbon Disulfide	U	10.0	5.00	10.0	ug/l	1.0						
Carbon Tetrachloride	U	2.00	1.00	2.00	ug/l	1.0						
Chlorobenzene	U	2.00	1.00	2.00	ug/l	1.0						
Chlorodibromomethane	U	2.00	1.00	2.00	ug/l	1.0						
Chloroethane	U	2.00	1.00	2.00	ug/l	1.0						
Chloroform	U	2.00	1.00	2.00	ug/l	1.0						
Dichlorobromomethane	U	2.00	1.00	2.00	ug/l	1.0						
Ethylbenzene	U	2.00	1.00	2.00	ug/l	1.0						
Methyl Bromide	U	2.00	1.00	2.00	ug/l	1.0						
Methyl Chloride	U	2.00	1.00	2.00	ug/l	1.0						
Methylene Chloride	J	0.501	1.00	5.00	ug/l	1.0						
Styrene	U	10.0	5.00	10.0	ug/l	1.0						

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Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	
VA	00151	
WI	99984779	

CERTIFICATE OF ANALYSIS

Client: Bechtel
PO Box 350
Oak Ridge, Tennessee 37831-0350
Contact: Ms. Lori Keller
Project Description: Key West/KW

cc: BECH00195 Report Date: August 01, 1995

Sample ID : KW02203 GWT

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M	C
Tetrachloroethylene	U	2.00	1.00	2.00	ug/l	1.0						
Toluene	J	0.171	1.00	2.00	ug/l	1.0	JRU	07/28/95	2201	69768	1	N
Trichloroethylene	U	2.00	1.00	2.00	ug/l	1.0						
Vinyl Acetate	U	10.0	5.00	10.0	ug/l	1.0						
Vinyl chloride	U	2.00	1.00	2.00	ug/l	1.0						
Xylenes (TOTAL)	U	20.0	10.0	20.0	ug/l	1.0						
cis-1,3-Dichloropropylene	U	2.00	1.00	2.00	ug/l	1.0						
trans-1,3-Dichloropropylene	U	2.00	1.00	2.00	ug/l	1.0						

Surrogate Recovery	Test	Percent%	Acceptable Limits
1,2-Dichloroethane-d4	TCL VOLATILES	114.	(81.0 - 114.)
Bromofluorobenzene	TCL VOLATILES	107.	(86.6 - 109.)
Toluene-d8	TCL VOLATILES	96.4	(89.6 - 107.)

M = Method	Method-Description
M 1	EPA 8240 extended

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Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	
VA	00151	
WI	99988779	

CERTIFICATE OF ANALYSIS

Client: Bechtel
PO Box 350
Oak Ridge, Tennessee 37831-0350
Contact: Ms. Lori Keller
Project Description: Key West/KW

cc: BECH00195 Report Date: August 14, 1995

Sample ID : 9507512-06 RA0 KW2203 GWT
Lab ID : 9507512-20
Matrix : GroundH2O
Date Collected : 07/25/95
Date Received : 07/26/95
Priority : Routine
Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M	C
Volatile Organics												
Target Compound List Volatiles - 35 items												
1,1,1-Trichloroethane	U	2.00	1.00	2.00	ug/l	1.0	JRU	08/01/95	1507	70220	1	N
1,1,2,2-Tetrachloroethane	U	10.0	5.00	10.0	ug/l	1.0						
1,1,2-Trichloroethane	U	2.00	1.00	2.00	ug/l	1.0						
1,1-Dichloroethane	U	2.00	1.00	2.00	ug/l	1.0						
1,1-Dichloroethylene	U	2.00	1.00	2.00	ug/l	1.0						
1,2-Dichloroethane	U	2.00	1.00	2.00	ug/l	1.0						
1,2-Dichloropropane	U	2.00	1.00	2.00	ug/l	1.0						
1,2-cis-Dichloroethylene	U	2.00	1.00	2.00	ug/l	1.0						
1,2-trans-Dichloroethylene	U	2.00	1.00	2.00	ug/l	1.0						
2-Butanone	U	10.0	5.00	10.0	ug/l	1.0						
2-Hexanone	U	10.0	5.00	10.0	ug/l	1.0						
4-Methyl-2-pentanone	U	10.0	5.00	10.0	ug/l	1.0						
Acetone		11.9	5.00	10.0	ug/l	1.0						
Benzene	U	2.00	1.00	2.00	ug/l	1.0						
Bromoform	U	2.00	2.00	2.00	ug/l	1.0						
Carbon Disulfide	U	10.0	5.00	10.0	ug/l	1.0						
Carbon Tetrachloride	U	2.00	1.00	2.00	ug/l	1.0						
Chlorobenzene	U	2.00	1.00	2.00	ug/l	1.0						
Chlorodibromomethane	J	0.324	1.00	2.00	ug/l	1.0						
Chloroethane	U	2.00	1.00	2.00	ug/l	1.0						
Chloroform	U	2.00	1.00	2.00	ug/l	1.0						
Dichlorobromomethane	J	0.202	1.00	2.00	ug/l	1.0						
Ethylbenzene	U	2.00	1.00	2.00	ug/l	1.0						
Methyl Bromide	U	2.00	1.00	2.00	ug/l	1.0						
Methyl Chloride	U	2.00	1.00	2.00	ug/l	1.0						
Methylene Chloride	J	0.509	1.00	5.00	ug/l	1.0						
Styrene	U	10.0	5.00	10.0	ug/l	1.0						

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Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	
VA	00151	
WI	99988779	

CERTIFICATE OF ANALYSIS

Client: Bechtel
PO Box 350
Oak Ridge, Tennessee 37831-0350
Contact: Ms. Lori Keller
Project Description: Key West/KW

cc: BECH00195 Report Date: August 14, 1995

Sample ID : 9507512-06 RA0 KW2203 GWT

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M	C
Tetrachloroethylene	U	2.00	1.00	2.00	ug/l	1.0						
Toluene	J	0.308	1.00	2.00	ug/l	1.0	JRU	08/01/95	1507	70220	1	N
Trichloroethylene	U	2.00	1.00	2.00	ug/l	1.0						
Vinyl Acetate	U	10.0	5.00	10.0	ug/l	1.0						
Vinyl chloride	U	2.00	1.00	2.00	ug/l	1.0						
Xylenes (TOTAL)	U	20.0	10.0	20.0	ug/l	1.0						
cis-1,3-Dichloropropylene	U	2.00	1.00	2.00	ug/l	1.0						
trans-1,3-Dichloropropylene	U	2.00	1.00	2.00	ug/l	1.0						

Surrogate Recovery	Test	Percent%	Acceptable Limits
1,2-Dichloroethane-d4	TCL VOLATILES	107.	(81.0 - 114.)
Bromofluorobenzene	TCL VOLATILES	105.	(86.6 - 109.)
Toluene-d8	TCL VOLATILES	94.8	(89.6 - 107.)

M = Method	Method-Description
M 1	EPA 8240 extended

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Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	
VA	00151	
WI	99988779	

CERTIFICATE OF ANALYSIS

Client: Bechtel
PO Box 350
Oak Ridge, Tennessee 37831-0350
Contact: Ms. Lori Keller
Project Description: Key West/KW

cc: BECH00195 Report Date: August 14, 1995

Sample ID : KW02203 GWT
Lab ID : 9507512-14
Matrix : GroundH2O
Date Collected : 07/25/95
Date Received : 07/26/95
Priority : Routine
Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M	C
Volatile Organics												
Naphthalene		91.1	1.50	2.00	ug/l	1.0	THL	07/31/95	1630	70118	1	1

Surrogate Recovery	Test	Percent%	Acceptable Limits
n-propylbenzene	NAP-GC	120.	(52.6 - 155.)

M = Method	Method-Description
M 1	EPA 8020

C = Container	Lab. Container ID	Reference ID
C 1	9507512-14.01	KW0220304

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9507512-14*

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STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	
VA	00151	
WI	99988779	

CERTIFICATE OF ANALYSIS

Client: Bechtel
PO Box 350
Oak Ridge, Tennessee 37831-0350
Contact: Ms. Lori Keller
Project Description: Key West/KW

cc: BECH00195 Report Date: August 01, 1995

Sample ID : KW02204 GWT
Lab ID : 9507512-07
Matrix : GroundH2O
Date Collected : 07/25/95
Date Received : 07/26/95
Priority : Rush
Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M	C
Volatile Organics												
Target Compound List Volatiles - 35 items												
1,1,1-Trichloroethane	U	2.00	1.00	2.00	ug/l	1.0	JRU	07/28/95	2232	69768	1	N
1,1,2,2-Tetrachloroethane	U	10.0	5.00	10.0	ug/l	1.0						
1,1,2-Trichloroethane	U	2.00	1.00	2.00	ug/l	1.0						
1,1-Dichloroethane	U	2.00	1.00	2.00	ug/l	1.0						
1,1-Dichloroethylene	U	2.00	1.00	2.00	ug/l	1.0						
1,2-Dichloroethane	U	2.00	1.00	2.00	ug/l	1.0						
1,2-Dichloropropane	U	2.00	1.00	2.00	ug/l	1.0						
1,2-cis-Dichloroethylene	U	2.00	1.00	2.00	ug/l	1.0						
1,2-trans-Dichloroethylene	U	2.00	1.00	2.00	ug/l	1.0						
2-Butanone	U	10.0	5.00	10.0	ug/l	1.0						
2-Hexanone	U	10.0	5.00	10.0	ug/l	1.0						
4-Methyl-2-pentanone	U	10.0	5.00	10.0	ug/l	1.0						
Acetone		10.7	5.00	10.0	ug/l	1.0						
Benzene	U	2.00	1.00	2.00	ug/l	1.0						
Bromoform	U	2.00	2.00	2.00	ug/l	1.0						
Carbon Disulfide	U	10.0	5.00	10.0	ug/l	1.0						
Carbon Tetrachloride	U	2.00	1.00	2.00	ug/l	1.0						
Chlorobenzene	U	2.00	1.00	2.00	ug/l	1.0						
Chlorodibromomethane	U	2.00	1.00	2.00	ug/l	1.0						
Chloroethane	U	2.00	1.00	2.00	ug/l	1.0						
Chloroform	U	2.00	1.00	2.00	ug/l	1.0						
Dichlorobromomethane	U	2.00	1.00	2.00	ug/l	1.0						
Ethylbenzene	U	2.00	1.00	2.00	ug/l	1.0						
Methyl Bromide	U	2.00	1.00	2.00	ug/l	1.0						
Methyl Chloride	U	2.00	1.00	2.00	ug/l	1.0						
Methylene Chloride	J	0.494	1.00	5.00	ug/l	1.0						
Styrene	U	10.0	5.00	10.0	ug/l	1.0						

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Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	
VA	00151	
WI	999885779	

CERTIFICATE OF ANALYSIS

Client: Bechtel
PO Box 350
Oak Ridge, Tennessee 37831-0350
Contact: Ms. Lori Keller
Project Description: Key West/KW

co: BECH00195 Report Date: August 01, 1995

Sample ID : KW02204 GWT

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M	C
Tetrachloroethylene	U	2.00	1.00	2.00	ug/l	1.0						
Toluene	U	2.00	1.00	2.00	ug/l	1.0	JRU	07/28/95	2232	69768	1	N
Trichloroethylene	U	2.00	1.00	2.00	ug/l	1.0						
Vinyl Acetate	U	10.0	5.00	10.0	ug/l	1.0						
Vinyl chloride	U	2.00	1.00	2.00	ug/l	1.0						
Xylenes (TOTAL)	U	20.0	10.0	20.0	ug/l	1.0						
cis-1,3-Dichloropropylene	U	2.00	1.00	2.00	ug/l	1.0						
trans-1,3-Dichloropropylene	U	2.00	1.00	2.00	ug/l	1.0						

Surrogate Recovery	Test	Percent%	Acceptable Limits
1,2-Dichloroethane-d4	TCL VOLATILES	118.*	(81.0 - 114.)
Bromofluorobenzene	TCL VOLATILES	101.	(86.6 - 109.)
Toluene-d8	TCL VOLATILES	98.4	(89.6 - 107.)

M = Method	Method-Description
M 1	EPA 8240 extended

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STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	
VA	00151	
WI	99988779	

CERTIFICATE OF ANALYSIS

Client: Bechtel
PO Box 350
Oak Ridge, Tennessee 37831-0350
Contact: Ms. Lori Keller
Project Description: Key West/KW

cc: BECH00195 Report Date: August 14, 1995

Sample ID	: 9507512-07 RA0 KW02204 GWT
Lab ID	: 9507512-21
Matrix	: GroundH2O
Date Collected	: 07/25/95
Date Received	: 07/26/95
Priority	: Routine
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M	C
Volatile Organics												
Target Compound List Volatiles - 35 items												
1,1,1-Trichloroethane	U	2.00	1.00	2.00	ug/l	1.0	JRU	08/01/95	1610	70220	1	N
1,1,2,2-Tetrachloroethane	U	10.0	5.00	10.0	ug/l	1.0						
1,1,2-Trichloroethane	U	2.00	1.00	2.00	ug/l	1.0						
1,1-Dichloroethane	U	2.00	1.00	2.00	ug/l	1.0						
1,1-Dichloroethylene	U	2.00	1.00	2.00	ug/l	1.0						
1,2-Dichloroethane	U	2.00	1.00	2.00	ug/l	1.0						
1,2-Dichloropropane	U	2.00	1.00	2.00	ug/l	1.0						
1,2-cis-Dichloroethylene	U	2.00	1.00	2.00	ug/l	1.0						
1,2-trans-Dichloroethylene	U	2.00	1.00	2.00	ug/l	1.0						
2-Butanone	U	10.0	5.00	10.0	ug/l	1.0						
2-Hexanone	U	10.0	5.00	10.0	ug/l	1.0						
4-Methyl-2-pentanone	U	10.0	5.00	10.0	ug/l	1.0						
Acetone	U	10.0	5.00	10.0	ug/l	1.0						
Benzene	U	2.00	1.00	2.00	ug/l	1.0						
Bromoform	U	2.00	2.00	2.00	ug/l	1.0						
Carbon Disulfide	U	10.0	5.00	10.0	ug/l	1.0						
Carbon Tetrachloride	U	2.00	1.00	2.00	ug/l	1.0						
Chlorobenzene	U	2.00	1.00	2.00	ug/l	1.0						
Chlorodibromomethane	U	2.00	1.00	2.00	ug/l	1.0						
Chloroethane	U	2.00	1.00	2.00	ug/l	1.0						
Chloroform	U	2.00	1.00	2.00	ug/l	1.0						
Dichlorobromomethane	U	2.00	1.00	2.00	ug/l	1.0						
Ethylbenzene	U	2.00	1.00	2.00	ug/l	1.0						
Methyl Bromide	U	2.00	1.00	2.00	ug/l	1.0						
Methyl Chloride	U	2.00	1.00	2.00	ug/l	1.0						
Methylene Chloride	U	5.00	1.00	5.00	ug/l	1.0						
Styrene	U	10.0	5.00	10.0	ug/l	1.0						

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Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	
VA	00151	
WI	99988779	

CERTIFICATE OF ANALYSIS

Client: Bechtel
PO Box 350
Oak Ridge, Tennessee 37831-0350
Contact: Ms. Lori Keller
Project Description: Key West/KW

cc: BECH00195 Report Date: August 14, 1995

Sample ID : 9507512-07 RA0 KW02204 GWT

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M	C
Tetrachloroethylene	U	2.00	1.00	2.00	ug/l	1.0						
Toluene	J	0.248	1.00	2.00	ug/l	1.0	JRU	08/01/95	1610	70220	1	N
Trichloroethylene	U	2.00	1.00	2.00	ug/l	1.0						
Vinyl Acetate	U	10.0	5.00	10.0	ug/l	1.0						
Vinyl chloride	U	2.00	1.00	2.00	ug/l	1.0						
Xylenes (TOTAL)	U	20.0	10.0	20.0	ug/l	1.0						
cis-1,3-Dichloropropylene	U	2.00	1.00	2.00	ug/l	1.0						
trans-1,3-Dichloropropylene	U	2.00	1.00	2.00	ug/l	1.0						

Surrogate Recovery	Test	Percent %	Acceptable Limits
1,2-Dichloroethane-d4	TCL VOLATILES	110.	(81.0 - 114.)
Bromofluorobenzene	TCL VOLATILES	104.	(86.6 - 109.)
Toluene-d8	TCL VOLATILES	98.4	(89.6 - 107.)

M = Method	Method-Description
M 1	EPA 8240 extended

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9507512-21*

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Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	
VA	00151	
WI	99988779	

CERTIFICATE OF ANALYSIS

Client: Bechtel
PO Box 350
Oak Ridge, Tennessee 37831-0350
Contact: Ms. Lori Keller
Project Description: Key West/KW

cc: BECH00195 Report Date: August 14, 1995

Sample ID	: KW02204 GWT
Lab ID	: 9507512-15
Matrix	: GroundH2O
Date Collected	: 07/25/95
Date Received	: 07/26/95
Priority	: Routine
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M	C
Volatile Organics												
Naphthalene	U	2.00	1.50	2.00	ug/l	1.0	THL	08/01/95	1115	70118	1	1

Surrogate Recovery	Test	Percent%	Acceptable Limits
n-propylbenzene	NAP-GC	95.2	(52.6 - 155.)

M = Method	Method-Description
M 1	EPA 8020

C = Container	Lab. Container ID	Reference ID
C 1	9507512-15.01	KW0220404

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9507512-15*

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Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	
VA	00151	
WI	99988779	

CERTIFICATE OF ANALYSIS

Client: Bechtel
PO Box 350
Oak Ridge, Tennessee 37831-0350
Contact: Ms. Lori Keller
Project Description: Key West/KW

cc: BECH00195 Report Date: August 01, 1995

Sample ID : KW02205 GWT
Lab ID : 9507512-08
Matrix : GroundH2O
Date Collected : 07/25/95
Date Received : 07/26/95
Priority : Rush
Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M	C
Volatile Organics												
Target Compound List Volatiles - 35 items												
1,1,1-Trichloroethane	U	2.00	1.00	2.00	ug/l	1.0	JRU	07/28/95	2304	69768	1	N
1,1,2,2-Tetrachloroethane	U	10.0	5.00	10.0	ug/l	1.0						
1,1,2-Trichloroethane	U	2.00	1.00	2.00	ug/l	1.0						
1,1-Dichloroethane	U	2.00	1.00	2.00	ug/l	1.0						
1,1-Dichloroethylene	U	2.00	1.00	2.00	ug/l	1.0						
1,2-Dichloroethane	U	2.00	1.00	2.00	ug/l	1.0						
1,2-Dichloropropane	U	2.00	1.00	2.00	ug/l	1.0						
1,2-cis-Dichloroethylene		56.7	1.00	2.00	ug/l	1.0						
1,2-trans-Dichloroethylene		4.58	1.00	2.00	ug/l	1.0						
2-Butanone	U	10.0	5.00	10.0	ug/l	1.0						
2-Hexanone	U	10.0	5.00	10.0	ug/l	1.0						
4-Methyl-2-pentanone	U	10.0	5.00	10.0	ug/l	1.0						
Acetone	J	8.14	5.00	10.0	ug/l	1.0						
Benzene	U	2.00	1.00	2.00	ug/l	1.0						
Bromoform	U	2.00	2.00	2.00	ug/l	1.0						
Carbon Disulfide	U	10.0	5.00	10.0	ug/l	1.0						
Carbon Tetrachloride	U	2.00	1.00	2.00	ug/l	1.0						
Chlorobenzene	U	2.00	1.00	2.00	ug/l	1.0						
Chlorodibromomethane	U	2.00	1.00	2.00	ug/l	1.0						
Chloroethane	U	2.00	1.00	2.00	ug/l	1.0						
Chloroform	U	2.00	1.00	2.00	ug/l	1.0						
Dichlorobromomethane	U	2.00	1.00	2.00	ug/l	1.0						
Ethylbenzene	U	2.00	1.00	2.00	ug/l	1.0						
Methyl Bromide	U	2.00	1.00	2.00	ug/l	1.0						
Methyl Chloride	U	2.00	1.00	2.00	ug/l	1.0						
Methylene Chloride	J	0.418	1.00	5.00	ug/l	1.0						
Styrene	U	10.0	5.00	10.0	ug/l	1.0						

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Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	
VA	00151	
WI	999887779	

CERTIFICATE OF ANALYSIS

Client: Bechtel
PO Box 350
Oak Ridge, Tennessee 37831-0350
Contact: Ms. Lori Keller
Project Description: Key West/KW

cc: BECH00195 Report Date: August 01, 1995

Sample ID : KW02205 GWT

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M	C
Tetrachloroethylene	U	2.00	1.00	2.00	ug/l	1.0						
Toluene	U	2.00	1.00	2.00	ug/l	1.0	JRU	07/28/95	2304	69768	1	N
Trichloroethylene	U	2.00	1.00	2.00	ug/l	1.0						
Vinyl Acetate	U	10.0	5.00	10.0	ug/l	1.0						
Vinyl chloride	U	2.00	1.00	2.00	ug/l	1.0						
Xylenes (TOTAL)	U	20.0	10.0	20.0	ug/l	1.0						
cis-1,3-Dichloropropylene	U	2.00	1.00	2.00	ug/l	1.0						
trans-1,3-Dichloropropylene	U	2.00	1.00	2.00	ug/l	1.0						

Surrogate Recovery	Test	Percent%	Acceptable Limits
1,2-Dichloroethane-d4	TCL VOLATILES	114.	(81.0 - 114.)
Bromofluorobenzene	TCL VOLATILES	103.	(86.6 - 109.)
Toluene-d8	TCL VOLATILES	100.	(89.6 - 107.)

M = Method	Method-Description
M 1	EPA 8240 extended

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Laboratory Certifications

STATE	GEL	EPI
FL	E871[illegible]	E87477/87468
NC	233	
SC	10120	10582
TN	02934	
VA	00151	
WI	99988779	

CERTIFICATE OF ANALYSIS

Client: Bechtel
PO Box 350
Oak Ridge, Tennessee 37831-0350
Contact: Ms. Lori Keller
Project Description: Key West/KW

cc: BECH00195 Report Date: August 14, 1995

Sample ID	: KW02205 GWT
Lab ID	: 9507512-16
Matrix	: GroundH2O
Date Collected	: 07/25/95
Date Received	: 07/26/95
Priority	: Routine
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M	C
Volatile Organics												
Naphthalene	U	2.00	1.50	2.00	ug/l	1.0	THL	07/31/95	1727	70118	1	1

Surrogate Recovery	Test	Percent%	Acceptable Limits
n-propylbenzene	NAP-GC	91.6	(52.6 - 155.)

M = Method	Method-Description
M 1	EPA 8020

C = Container	Lab. Container ID	Reference ID
C 1	9507512-16.01	KW0220504

P O Box 30712 • Charleston, SC 29417 • (803) 556-8171 • Fax (803) 766-1178

9507512-16

Printed on recycled paper.

08-14-1995 16:26 7661178 GENERAL ENGINEERING P.17

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

220601

Lab Name: AQUATEC, INC. Contract: 95211

Lab Code: AQUAI Case No.: KWFLA SAS No.: SDG No.: 52838

Matrix: (soil/water) WATER Lab Sample ID: 265930

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: L265930V.D

Level: (low/med) LOW Date Received: 08/03/95

% Moisture: not dec. _____ Date Analyzed: 08/07/95

GC Column:CAP ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
67-64-1	Acetone	5	J
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
108-10-1	4-Methyl-2-pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
108-88-3	Toluene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U
108-05-4	Vinyl Acetate	5	U
75-09-2	Methylene Chloride	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
75-25-2	Bromoform	5	U
108-90-7	Chlorobenzene	5	U

1A-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

220601

Lab Name: AQUATEC, INC. Contract: 95211

Lab Code: AQUAI Case No.: KWFLA SAS No.: SDG No.: 52838

Matrix: (soil/water) WATER Lab Sample ID: 265930

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: L265930V.D

Level: (low/med) LOW Date Received: 08/03/95

% Moisture: not dec. _____ Date Analyzed: 08/07/95

GC Column:CAP ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
156-59-2	cis-1,2-Dichloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

220601

Lab Name: AQUATEC INC. Contract: 95211

Lab Code: AQUAI Case No.: KWFLA SAS No.: SDG No.: 52838

Matrix: (soil/water) WATER Lab Sample ID: 265930

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: L265930V.D

Level: (low/med) LOW Date Received: 08/03/95

% Moisture: not dec. _____ Date Analyzed: 08/07/95

GC Column:CAP ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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FORM 1
8021 NAPH ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

220605

Lab Name: AQUATEC, INC. Contract: 95211

Lab Code: AQUAI Case No.: KWFLA SAS No.: SDG No.: 52838

Matrix: (soil/water) WATER Lab Sample ID: 265934

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: 25AUG951102-I121

Level: (low/med) LOW Date Received: 08/17/95

% Moisture: not dec. _____ Date Analyzed: 08/26/95

GC Column: RTX-1 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
91-20-3	Naphthalene	0.50	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

220701

Lab Name: AQUATEC, INC. Contract: 95211

Lab Code: AQUAI Case No.: KWFLA SAS No.: SDG No.: 52838

Matrix: (soil/water) WATER Lab Sample ID: 265936

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: L265936V.D

Level: (low/med) LOW Date Received: 08/03/95

% Moisture: not dec. _____ Date Analyzed: 08/07/95

GC Column:CAP ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
67-64-1	Acetone	100	
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
108-10-1	4-Methyl-2-pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
108-88-3	Toluene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U
108-05-4	Vinyl Acetate	5	U
75-09-2	Methylene Chloride	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
75-25-2	Bromoform	5	U
108-90-7	Chlorobenzene	5	U

1A-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

220701

Lab Name: AQUATEC, INC. Contract: 95211

Lab Code: AQUAI Case No.: KWFLA SAS No.: SDG No.: 52838

Matrix: (soil/water) WATER Lab Sample ID: 265936

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: L265936V.D

Level: (low/med) LOW Date Received: 08/03/95

% Moisture: not dec. _____ Date Analyzed: 08/07/95

GC Column:CAP ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
156-59-2	cis-1,2-Dichloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

220701

Lab Name: AQUATEC INC. Contract: 95211

Lab Code: AQUAI Case No.: KWFLA SAS No.: SDG No.: 52838

Matrix: (soil/water) WATER Lab Sample ID: 265936

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: L265936V.D

Level: (low/med) LOW Date Received: 08/03/95

% Moisture: not dec. _____ Date Analyzed: 08/07/95

GC Column:CAP ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	67-63-0	Isopropyl Alcohol	3.647	23	NJ
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
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FORM 1
8021 NAPH ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

220706

Lab Name: AQUATEC, INC. Contract: 95211

Lab Code: AQUAI Case No.: KWFLA SAS No.: SDG No.: 52838

Matrix: (soil/water) WATER Lab Sample ID: 265941

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: 25AUG951102-I131

Level: (low/med) LOW Date Received: 08/17/95

% Moisture: not dec. _____ Date Analyzed: 08/26/95

GC Column: RTX-1 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
91-20-3	Naphthalene	0.50	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

220801

Lab Name: AQUATEC, INC. Contract: 95211

Lab Code: AQUAI Case No.: KWFLA SAS No.: SDG No.: 52838

Matrix: (soil/water) WATER Lab Sample ID: 265942

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: L265942V.D

Level: (low/med) LOW Date Received: 08/03/95

% Moisture: not dec. _____ Date Analyzed: 08/07/95

GC Column:CAP ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
67-64-1	Acetone	19	
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
108-10-1	4-Methyl-2-pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
108-88-3	Toluene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U
108-05-4	Vinyl Acetate	5	U
75-09-2	Methylene Chloride	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
75-25-2	Bromoform	5	U
108-90-7	Chlorobenzene	5	U

1A-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

220801

Lab Name: AQUATEC, INC. Contract: 95211

Lab Code: AQUAI Case No.: KWFLA SAS No.: SDG No.: 52838

Matrix: (soil/water) WATER Lab Sample ID: 265942

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: L265942V.D

Level: (low/med) LOW Date Received: 08/03/95

% Moisture: not dec. _____ Date Analyzed: 08/07/95

GC Column:CAP ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
156-59-2	cis-1,2-Dichloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

220801

Lab Name: AQUATEC, INC. Contract: 95211

Lab Code: AQUAI Case No.: KWFLA SAS No.: SDG No.: 52838

Matrix: (soil/water) WATER Lab Sample ID: 265942

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: L265942V.D

Level: (low/med) LOW Date Received: 08/03/95

% Moisture: not dec. _____ Date Analyzed: 08/07/95

GC Column:CAP ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		Unknown difluorobenzene	6.703	80	J
2.					
3.					
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FORM 1
8021 NAPH ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

220806

Lab Name: AQUATEC, INC. Contract: 95211

Lab Code: AQUAI Case No.: KWFLA SAS No.: SDG No.: 52838

Matrix: (soil/water) WATER Lab Sample ID: 265947

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: 25AUG951102-I141

Level: (low/med) LOW Date Received: 08/17/95

% Moisture: not dec. _____ Date Analyzed: 08/26/95

GC Column: RTX-1 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
91-20-3	Naphthalene	0.50	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

220901

Lab Name: AQUATEC, INC. Contract: 95211

Lab Code: AQUAI Case No.: KWFLA SAS No.: SDG No.: 52838

Matrix: (soil/water) WATER Lab Sample ID: 265998

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: L265998V.D

Level: (low/med) LOW Date Received: 08/03/95

% Moisture: not dec. _____ Date Analyzed: 08/07/95

GC Column:CAP ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
108-10-1	4-Methyl-2-pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
108-88-3	Toluene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U
108-05-4	Vinyl Acetate	5	U
75-09-2	Methylene Chloride	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
75-25-2	Bromoform	5	U
108-90-7	Chlorobenzene	5	U

1A-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

220901

Lab Name: AQUATEC, INC. Contract: 95211

Lab Code: AQUAI Case No.: KWFLA SAS No.: SDG No.: 52838

Matrix: (soil/water) WATER Lab Sample ID: 265998

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: L265998V.D

Level: (low/med) LOW Date Received: 08/03/95

% Moisture: not dec. _____ Date Analyzed: 08/07/95

GC Column:CAP ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
156-59-2	cis-1,2-Dichloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

220901

Lab Name: AQUATEC INC. Contract: 95211

Lab Code: AQUAI Case No.: KWFLA SAS No.: SDG No.: 52838

Matrix: (soil/water) WATER Lab Sample ID: 265998

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: L265998V.D

Level: (low/med) LOW Date Received: 08/03/95

% Moisture: not dec. _____ Date Analyzed: 08/07/95

GC Column:CAP ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
3.				
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FORM 1
8021 NAPH ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

220906

Lab Name: AQUATEC, INC. Contract: 95211

Lab Code: AQUAI Case No.: KWFLA SAS No.: SDG No.: 52838

Matrix: (soil/water) WATER Lab Sample ID: 265953

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: 25AUG951102-I151

Level: (low/med) LOW Date Received: 08/17/95

% Moisture: not dec. _____ Date Analyzed: 08/26/95

GC Column: RTX-1 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
91-20-3	Naphthalene	0.50	U

000068

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10552
TN	02934	
VA	00151	
WI	99988779	

CERTIFICATE OF ANALYSIS

Client: Bechtel
PO Box 350
Oak Ridge, Tennessee 37831-0350
Contact: Ms. Lori Keller
Project Description: Key West/KW

cc: BECH00195 Report Date: August 14, 1995

Sample ID : KW02210 OFW
Lab ID : 9507512-17
Matrix : Water
Date Collected : 07/19/95
Date Received : 07/26/95
Priority : Routine
Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M	C
Volatile Organics												
Target Compound List Volatiles - 35 items												
1,1,1-Trichloroethane	U	2.00	1.00	2.00	ug/l	1.0	JRU	07/28/95	2335	69768	1	N
1,1,2,2-Tetrachloroethane	U	10.0	5.00	10.0	ug/l	1.0						
1,1,2-Trichloroethane	U	2.00	1.00	2.00	ug/l	1.0						
1,1-Dichloroethane	U	2.00	1.00	2.00	ug/l	1.0						
1,1-Dichloroethylene	U	2.00	1.00	2.00	ug/l	1.0						
1,2-Dichloroethane	U	2.00	1.00	2.00	ug/l	1.0						
1,2-Dichloropropane	U	2.00	1.00	2.00	ug/l	1.0						
1,2-cis-Dichloroethylene	U	2.00	1.00	2.00	ug/l	1.0						
1,2-trans-Dichloroethylene	U	2.00	1.00	2.00	ug/l	1.0						
2-Butanone	U	10.0	5.00	10.0	ug/l	1.0						
2-Hexanone	U	10.0	5.00	10.0	ug/l	1.0						
4-Methyl-2-pentanone	U	10.0	5.00	10.0	ug/l	1.0						
Acetone	J	2.75	5.00	10.0	ug/l	1.0						
Benzene	U	2.00	1.00	2.00	ug/l	1.0						
Bromoform	U	2.00	2.00	2.00	ug/l	1.0						
Carbon Disulfide	U	10.0	5.00	10.0	ug/l	1.0						
Carbon Tetrachloride	U	2.00	1.00	2.00	ug/l	1.0						
Chlorobenzene	U	2.00	1.00	2.00	ug/l	1.0						
Chlorodibromomethane	U	2.00	1.00	2.00	ug/l	1.0						
Chloroethane	U	2.00	1.00	2.00	ug/l	1.0						
Chloroform	U	2.00	1.00	2.00	ug/l	1.0						
Dichlorobromomethane	U	2.00	1.00	2.00	ug/l	1.0						
Ethylbenzene	U	2.00	1.00	2.00	ug/l	1.0						
Methyl Bromide	U	2.00	1.00	2.00	ug/l	1.0						
Methyl Chloride	U	2.00	1.00	2.00	ug/l	1.0						
Methylene Chloride	J	0.934	1.00	5.00	ug/l	1.0						
Styrene	U	10.0	5.00	10.0	ug/l	1.0						

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	
VA	00151	
WI	99988779	

CERTIFICATE OF ANALYSIS

Client: Bechtel
PO Box 350
Oak Ridge, Tennessee 37831-0350
Contact: Ms. Lori Keller
Project Description: Key West/KW

cc: BECH00195 Report Date: August 14, 1995

Sample ID : KW02210 OFW

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M	C
Tetrachloroethylene	U	2.00	1.00	2.00	ug/l	1.0						
Toluene	U	2.00	1.00	2.00	ug/l	1.0	JRU	07/28/95	2335	69768	1	N
Trichloroethylene	U	2.00	1.00	2.00	ug/l	1.0						
Vinyl Acetate	U	10.0	5.00	10.0	ug/l	1.0						
Vinyl chloride	U	2.00	1.00	2.00	ug/l	1.0						
Xylenes (TOTAL)	U	20.0	10.0	20.0	ug/l	1.0						
cis-1,3-Dichloropropylene	U	2.00	1.00	2.00	ug/l	1.0						
trans-1,3-Dichloropropylene	U	2.00	1.00	2.00	ug/l	1.0						

Surrogate Recovery	Test	Percent %	Acceptable Limits
1,2-Dichloroethane-d4	TCL VOLATILES	114.	(70.2 - 124.)
Bromofluorobenzene	TCL VOLATILES	102.	(86.4 - 108.)
Toluene-d8	TCL VOLATILES	100.	(74.7 - 118.)

M = Method	Method-Description
M 1	EPA 8240 extended

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9507512-17

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08-14-1995 16:28 7661178 GENERAL ENGINEERING P.20

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

221001

Lab Name: AQUATEC, INC. Contract: 95211

Lab Code: AQUAI Case No.: KWFLA SAS No.: SDG No.: 52838

Matrix: (soil/water) WATER Lab Sample ID: 265954

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: L265954V.D

Level: (low/med) LOW Date Received: 08/03/95

% Moisture: not dec. _____ Date Analyzed: 08/07/95

GC Column:CAP ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
108-10-1	4-Methyl-2-pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
108-88-3	Toluene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U
108-05-4	Vinyl Acetate	5	U
75-09-2	Methylene Chloride	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
75-25-2	Bromoform	5	U
108-90-7	Chlorobenzene	5	U

1A-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

221001

Lab Name: AQUATEC, INC. Contract: 95211

Lab Code: AQUAI Case No.: KWFLA SAS No.: SDG No.: 52838

Matrix: (soil/water) WATER Lab Sample ID: 265954

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: L265954V.D

Level: (low/med) LOW Date Received: 08/03/95

% Moisture: not dec. _____ Date Analyzed: 08/07/95

GC Column:CAP ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
156-59-2	cis-1,2-Dichloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

221001

Lab Name: AQUATEC INC. Contract: 95211

Lab Code: AQUAI Case No.: KWFLA SAS No.: SDG No.: 52838

Matrix: (soil/water) WATER Lab Sample ID: 265954

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: L265954V.D

Level: (low/med) LOW Date Received: 08/03/95

% Moisture: not dec. _____ Date Analyzed: 08/07/95

GC Column:CAP ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

221101

Lab Name: AQUATEC, INC. Contract: 95211

Lab Code: AQUAI Case No.: KWFLA SAS No.: SDG No.: 52838

Matrix: (soil/water) WATER Lab Sample ID: 265957

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: L265957V.D

Level: (low/med) LOW Date Received: 08/03/95

% Moisture: not dec. _____ Date Analyzed: 08/07/95

GC Column:CAP ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
108-10-1	4-Methyl-2-pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
108-88-3	Toluene	12	
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U
108-05-4	Vinyl Acetate	5	U
75-09-2	Methylene Chloride	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
75-25-2	Bromoform	5	U
108-90-7	Chlorobenzene	5	U

1A-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

221101

Lab Name: AQUATEC, INC. Contract: 95211

Lab Code: AQUAI Case No.: KWFLA SAS No.: SDG No.: 52838

Matrix: (soil/water) WATER Lab Sample ID: 265957

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: L265957V.D

Level: (low/med) LOW Date Received: 08/03/95

% Moisture: not dec. _____ Date Analyzed: 08/07/95

GC Column:CAP ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
156-59-2	cis-1,2-Dichloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

221101

Lab Name: AQUATEC INC. Contract: 95211

Lab Code: AQUAI Case No.: KWFLA SAS No.: SDG No.: 52838

Matrix: (soil/water) WATER Lab Sample ID: 265957

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: L265957V.D

Level: (low/med) LOW Date Received: 08/03/95

% Moisture: not dec. _____ Date Analyzed: 08/07/95

GC Column:CAP ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	104-76-7	1-Hexanol, 2-ethyl-	13.129	11	NJ
2.					
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FORM 1
8021 NAPH ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

221105

Lab Name: AQUATEC, INC. Contract: 95211

Lab Code: AQUAI Case No.: KWFLA SAS No.: SDG No.: 52838

Matrix: (soil/water) WATER Lab Sample ID: 265961

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: 25AUG951102-I161

Level: (low/med) LOW Date Received: 08/17/95

% Moisture: not dec. _____ Date Analyzed: 08/26/95

GC Column: RTX-1 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
91-20-3	Naphthalene	0.50	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

221201

Lab Name: AQUATEC, INC. Contract: 95211

Lab Code: AQUAI Case No.: KWFLA SAS No.: SDG No.: 52838

Matrix: (soil/water) WATER Lab Sample ID: 265963

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: L265963V.D

Level: (low/med) LOW Date Received: 08/03/95

% Moisture: not dec. _____ Date Analyzed: 08/07/95

GC Column:CAP ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
67-64-1	Acetone	42	
75-15-0	Carbon Disulfide	6	
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	44	
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
108-10-1	4-Methyl-2-pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
108-88-3	Toluene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U
108-05-4	Vinyl Acetate	5	U
75-09-2	Methylene Chloride	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
75-25-2	Bromoform	5	U
108-90-7	Chlorobenzene	5	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

221201

Lab Name: AQUATEC, INC. Contract: 95211

Lab Code: AQUAI Case No.: KWFLA SAS No.: SDG No.: 52838

Matrix: (soil/water) WATER Lab Sample ID: 265963

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: L265963V.D

Level: (low/med) LOW Date Received: 08/03/95

% Moisture: not dec. _____ Date Analyzed: 08/07/95

GC Column:CAP ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown difluorobenzene	6.703	82	J
2.				
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1A-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

221201

Lab Name: AQUATEC, INC. Contract: 95211

Lab Code: AQUAI Case No.: KWFLA SAS No.: SDG No.: 52838

Matrix: (soil/water) WATER Lab Sample ID: 265963

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: L265963V.D

Level: (low/med) LOW Date Received: 08/03/95

% Moisture: not dec. _____ Date Analyzed: 08/07/95

GC Column:CAP ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
156-59-2	cis-1,2-Dichloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U

FORM 1
8021 NAPH ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

221206

Lab Name: AQUATEC, INC. Contract: 95211

Lab Code: AQUAI Case No.: KWFLA SAS No.: SDG No.: 52838

Matrix: (soil/water) WATER Lab Sample ID: 265968

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: 25AUG951102-I171

Level: (low/med) LOW Date Received: 08/17/95

% Moisture: not dec. _____ Date Analyzed: 08/26/95

GC Column: RTX-1 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
91-20-3	Naphthalene	0.50	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

221301

Lab Name: AQUATEC, INC. Contract: 95211

Lab Code: AQUAI Case No.: KWFLA SAS No.: SDG No.: 52838

Matrix: (soil/water) WATER Lab Sample ID: 266414

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: M266414V.D

Level: (low/med) LOW Date Received: 08/07/95

% Moisture: not dec. _____ Date Analyzed: 08/10/95

GC Column:CAP ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
108-10-1	4-Methyl-2-pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
108-88-3	Toluene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U
108-05-4	Vinyl Acetate	5	U
75-09-2	Methylene Chloride	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
75-25-2	Bromoform	5	U
108-90-7	Chlorobenzene	5	U

FORM 1
8021 NAPH ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

221303

Lab Name: AQUATEC, INC. Contract: 95211

Lab Code: AQUAI Case No.: KWFLA SAS No.: SDG No.: 52838

Matrix: (soil/water) WATER Lab Sample ID: 266416

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: 25AUG951102-I191

Level: (low/med) LOW Date Received: 08/17/95

% Moisture: not dec. _____ Date Analyzed: 08/26/95

GC Column: RTX-1 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
91-20-3	Naphthalene	0.50	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

221401

Lab Name: AQUATEC, INC. Contract: 95211

Lab Code: AQUAI Case No.: KWFLA SAS No.: SDG No.: 52838

Matrix: (soil/water) WATER Lab Sample ID: 266420

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: M266420V.D

Level: (low/med) LOW Date Received: 08/07/95

% Moisture: not dec. _____ Date Analyzed: 08/10/95

GC Column:CAP ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
108-10-1	4-Methyl-2-pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
108-88-3	Toluene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U
108-05-4	Vinyl Acetate	5	U
75-09-2	Methylene Chloride	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
75-25-2	Bromoform	5	U
108-90-7	Chlorobenzene	5	U

000023A

1A-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

221301

Lab Name: AQUATEC, INC. Contract: 95211

Lab Code: AQUAI Case No.: KWFLA SAS No.: SDG No.: 52838

Matrix: (soil/water) WATER Lab Sample ID: 266414

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: M266414V.D

Level: (low/med) LOW Date Received: 08/07/95

% Moisture: not dec. _____ Date Analyzed: 08/10/95

GC Column:CAP ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
156-59-2	cis-1,2-Dichloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

221301

Lab Name: AQUATEC, INC. Contract: 95211

Lab Code: AQUAI Case No.: KWFLA SAS No.: SDG No.: 52838

Matrix: (soil/water) WATER Lab Sample ID: 266414

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: M266414V.D

Level: (low/med) LOW Date Received: 08/07/95

% Moisture: not dec. _____ Date Analyzed: 08/10/95

GC Column:CAP ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
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1A-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

221401

Lab Name: AQUATEC, INC. Contract: 95211

Lab Code: AQUAI Case No.: KWFLA SAS No.: SDG No.: 52838

Matrix: (soil/water) WATER Lab Sample ID: 266420

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: M266420V.D

Level: (low/med) LOW Date Received: 08/07/95

% Moisture: not dec. _____ Date Analyzed: 08/10/95

GC Column:CAP ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
156-59-2	cis-1,2-Dichloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

221401

Lab Name: AQUATEC, INC. Contract: 95211

Lab Code: AQUAI Case No.: KWFLA SAS No.: SDG No.: 52838

Matrix: (soil/water) WATER Lab Sample ID: 266420

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: M266420V.D

Level: (low/med) LOW Date Received: 08/07/95

% Moisture: not dec. _____ Date Analyzed: 08/10/95

GC Column:CAP ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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FORM 1
8021 NAPH ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

221403

Lab Name: AQUATEC, INC. Contract: 95211

Lab Code: AQUAI Case No.: KWFLA SAS No.: SDG No.: 52838

Matrix: (soil/water) WATER Lab Sample ID: 266422

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: 25AUG951102-I201

Level: (low/med) LOW Date Received: 08/17/95

% Moisture: not dec. _____ Date Analyzed: 08/26/95

GC Column: RTX-1 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
91-20-3	Naphthalene	0.50	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

221501

Lab Name: AQUATEC, INC. Contract: 95211

Lab Code: AQUAI Case No.: KWFLA SAS No.: SDG No.: 52838

Matrix: (soil/water) WATER Lab Sample ID: 266426

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: M266426V.D

Level: (low/med) LOW Date Received: 08/07/95

% Moisture: not dec. _____ Date Analyzed: 08/10/95

GC Column:CAP ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
108-10-1	4-Methyl-2-pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
108-88-3	Toluene	3	J
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U
108-05-4	Vinyl Acetate	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
75-09-2	Methylene Chloride	0.9	J
75-25-2	Bromoform	5	U
108-90-7	Chlorobenzene	5	U

1A-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

221501

Lab Name: AQUATEC, INC. Contract: 95211

Lab Code: AQUAI Case No.: KWFLA SAS No.: SDG No.: 52838

Matrix: (soil/water) WATER Lab Sample ID: 266426

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: M266426V.D

Level: (low/med) LOW Date Received: 08/07/95

% Moisture: not dec. _____ Date Analyzed: 08/10/95

GC Column:CAP ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
156-59-2	cis-1,2-Dichloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

221501

Lab Name: AQUATEC, INC. Contract: 95211

Lab Code: AQUAI Case No.: KWFLA SAS No.: SDG No.: 52838

Matrix: (soil/water) WATER Lab Sample ID: 266426

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: M266426V.D

Level: (low/med) LOW Date Received: 08/07/95

% Moisture: not dec. _____ Date Analyzed: 08/10/95

GC Column:CAP ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

221601

Lab Name: AQUATEC, INC. Contract: 95211

Lab Code: AQUAI Case No.: KW013 SAS No.: SDG No.: 53653

Matrix: (soil/water) WATER Lab Sample ID: 270348

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: L270348V.D

Level: (low/med) LOW Date Received: 09/08/95

% Moisture: not dec. _____ Data Analyzed: 09/13/95

GC Column:CAP ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	1	U
75-01-4	Vinyl Chloride	1	U
74-83-9	Bromomethane	1	U
75-00-3	Chloroethane	1	U
67-64-1	Acetone	6	
75-35-4	1,1-Dichloroethene	1	U
156-60-5	trans-1,2-Dichloroethene	1	U
75-15-0	Carbon Disulfide	1	U
75-09-2	Methylene Chloride	1	
75-34-3	1,1-Dichloroethane	1	U
156-59-2	cis-1,2-Dichloroethene	1	U
78-93-3	2-Butanone	5	U
67-66-3	Chloroform	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon Tetrachloride	1	U
107-06-2	1,2-Dichloroethane	1	U
71-43-2	Benzene	1	U
79-01-6	Trichloroethene	1	U
78-87-5	1,2-Dichloropropane	1	U
75-27-4	Bromodichloromethane	1	U
108-10-1	4-Methyl-2-Pentanone	5	U
10061-01-5	cis-1,3-Dichloropropene	1	U
108-88-3	Toluene	1	U
10061-02-6	trans-1,3-Dichloropropene	1	U
79-00-5	1,1,2-Trichloroethane	1	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	1	U
124-48-1	Dibromochloromethane	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
1330-20-7	Xylene (total)	1	
100-42-5	Styrene	1	U
75-25-2	Bromoform	1	U

1A-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

221601

Lab Name: AQUATEC, INC. Contract: 95211

Lab Code: AQUAI Case No.: KW013 SAS No.: SDG No.: 53653

Matrix: (soil/water) WATER Lab Sample ID: 270348

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: L270348V.D

Level: (low/med) LOW Date Received: 09/08/95

% Moisture: not dec. _____ Data Analyzed: 09/13/95

GC Column:CAP ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-34-5	1,1,2,2-Tetrachloroethane	1	U
91-20-3	Naphthalene	1	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

221703

Lab Name: AQUATEC, INC. Contract: 95211

Lab Code: AQUAI Case No.: KW013 SAS No.: SDG No.: 53653

Matrix: (soil/water) WATER Lab Sample ID: 270353

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: L270353V.D

Level: (low/med) LOW Date Received: 09/08/95

% Moisture: not dec. _____ Data Analyzed: 09/14/95

GC Column:CAP ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	1	U
75-01-4	Vinyl Chloride	1	U
74-83-9	Bromomethane	1	U
75-00-3	Chloroethane	1	U
67-64-1	Acetone	5	U
75-35-4	1,1-Dichloroethene	1	U
156-60-5	trans-1,2-Dichloroethene	1	U
75-15-0	Carbon Disulfide	1	U
75-09-2	Methylene Chloride	1	U
75-34-3	1,1-Dichloroethane	1	U
156-59-2	cis-1,2-Dichloroethene	1	U
78-93-3	2-Butanone	5	U
67-66-3	Chloroform	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon Tetrachloride	1	U
107-06-2	1,2-Dichloroethane	1	U
71-43-2	Benzene	1	U
79-01-6	Trichloroethene	1	U
78-87-5	1,2-Dichloropropane	1	U
75-27-4	Bromodichloromethane	1	U
108-10-1	4-Methyl-2-Pentanone	5	U
10061-01-5	cis-1,3-Dichloropropene	1	U
108-88-3	Toluene	1	U
10061-02-6	trans-1,3-Dichloropropene	1	U
79-00-5	1,1,2-Trichloroethane	1	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	1	U
124-48-1	Dibromochloromethane	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
1330-20-7	Xylene (total)	1	U
100-42-5	Styrene	1	U
75-25-2	Bromoform	1	U

1A-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

221703

Lab Name: AQUATEC, INC. Contract: 95211

Lab Code: AQUAI Case No.: KW013 SAS No.: SDG No.: 53653

Matrix: (soil/water) WATER Lab Sample ID: 270353

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: L270353V.D

Level: (low/med) LOW Date Received: 09/08/95

% Moisture: not dec. _____ Data Analyzed: 09/14/95

GC Column:CAP ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-34-5	1,1,2,2-Tetrachloroethane	1	U
91-20-3	Naphthalene	0.9	J

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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

221801

Lab Name: AQUATEC, INC. Contract: 95211

Lab Code: AQUAI Case No.: KW013 SAS No.: SDG No.: 53653

Matrix: (soil/water) WATER Lab Sample ID: 270355

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: L270355V.D

Level: (low/med) LOW Date Received: 09/08/95

% Moisture: not dec. _____ Data Analyzed: 09/13/95

GC Column:CAP ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	1	U
75-01-4	Vinyl Chloride	1	U
74-83-9	Bromomethane	1	U
75-00-3	Chloroethane	1	U
67-64-1	Acetone	5	U
75-35-4	1,1-Dichloroethene	1	U
156-60-5	trans-1,2-Dichloroethene	1	U
75-15-0	Carbon Disulfide	1	U
75-09-2	Methylene Chloride	1	U
75-34-3	1,1-Dichloroethane	1	U
156-59-2	cis-1,2-Dichloroethene	1	U
78-93-3	2-Butanone	5	U
67-66-3	Chloroform	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon Tetrachloride	1	U
107-06-2	1,2-Dichloroethane	1	U
71-43-2	Benzene	1	U
79-01-6	Trichloroethene	1	U
78-87-5	1,2-Dichloropropane	1	U
75-27-4	Bromodichloromethane	1	U
108-10-1	4-Methyl-2-Pentanone	5	U
10061-01-5	cis-1,3-Dichloropropene	1	U
108-88-3	Toluene	1	U
10061-02-6	trans-1,3-Dichloropropene	1	U
79-00-5	1,1,2-Trichloroethane	1	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	1	U
124-48-1	Dibromochloromethane	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
1330-20-7	Xylene (total)	1	U
100-42-5	Styrene	1	U
75-25-2	Bromoform	1	U

1A-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

221801

Lab Name: AQUATEC, INC. Contract: 95211

Lab Code: AQUAI Case No.: KW013 SAS No.: SDG No.: 53653

Matrix: (soil/water) WATER Lab Sample ID: 270355

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: L270355V.D

Level: (low/med) LOW Date Received: 09/08/95

% Moisture: not dec. _____ Data Analyzed: 09/13/95

GC Column:CAP ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-34-5	1,1,2,2-Tetrachloroethane	1	U
91-20-3	Naphthalene	1	U