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NAS FORT WORTH
5090.3a

LETTER REGARDING ANALYTICAL DATA RESULTS FOR GROUNDWATER MONITORING WELLS 1, 2, A, AND 17M NAS FORT WORTH TX
10/28/1992
MAXIM ENGINEERS

File: 17G
A.F.

NAVAL AIR STATION
FORT WORTH JRB
CARSWELL FIELD
TEXAS

ADMINISTRATIVE RECORD
COVER SHEET

AR File Number 119

D.B. P 1 H-22

119

MAXIM ENGINEERS, INC.
Engineering and Environmental Consultants

2301 E. Loop 820 N
Fort Worth, Texas 76118

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October 28, 1992

BSS

Lt. Erin Manning
Environmental Compliance
Building 1215
Carswell AFB, Texas 76127

RE: Analytical Results for
Monitor Wells MW-1, MW-2,
MW-A, and MW-17M

Dear Lt. Manning:

Enclosed herewith are the analytical results of tests performed on the groundwater extracted from each of the above mentioned monitor wells on October 5, 1992. Analytical parameters for the four wells were as follows:

MW-1 and MW-2	BTEX only
MW-A*	TPH & BTEX
MW-17M	TPH & BTEX

*MW-A refers to the Monitor Well located at the south end of the gasoline station at Rogner Drive and A Street.

Each of the wells was purged and allowed to recharge prior to extraction of the sample. Each BTEX sample was poured into two 1.5 oz amber glass vials using Hydrochloric Acid (HCL) as a preservative. The TPH samples were each contained in 1 liter amber jars, also using HCL as preservative. All samples were placed on ice in an insulated cooler and transported to an EPA approved laboratory for analysis. Results of this analysis appear in Table I on the following page.

Table I
Summary of Analytical Results
of Groundwater Samples
Sample Date: 10/5/92
Results are reported in part per million (ppm)

Sample Location	Benzene	Toluene	Ethylbenzene	Xylene	Total BTEX	TPH
MW-1	2.117	8.417	5.404	13.630	29.570	15.2*
MW-2	<025.00	042.62	2.078	1.318	6.745	4.0*
MW-A	<.005	<.005	<.005	<.005	<.005	16.0
MW-17M	3.960	222.341	150.980	941.192	1318.473	1413.1

*Groundwater samples for MW-1 and MW-2 taken on September 21, 1992.

Maxim Engineers, Inc. recommends that regular quarterly sampling procedures be implemented for MW-1 and MW-2 to monitor contamination levels at these sites. It is also acknowledged that phase separated product recovery activities are being undertaken at MW-17M, and it is recommended that quarterly sampling be initiated for it as well.

Sincerely,

MAXIM ENGINEERS, INC.

Keva Ward

Keva Ward
Environmental Scientist
Environmental Services

KW/mfg

MAXIM ENGINEERS, INC.
Engineering and Environmental Consultants

2342 Fabens, P.O. Box 59902
Dallas, Texas 75229

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(214) 247-7575
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Fax (214) 484-5804

BTEX REPORT

CLIENT	UNITED STATES AIR FORCE
PROJECT NO.	2492001270
SAMPLE DATE	09/30/92
DATE RECEIVED	09/30/92
DATE OF EXTRACTION	N/A
DATE OF ANALYSIS	10/01/92
SAMPLE ID	92135437
LAB NO.	92035452
FIELD ID	MW-1
MATRIX	LIQUID
METHOD OF TEST	EPA METHOD 8020

PARAMETER	RESULTS (ug/L)	DETECTION LIMIT (ug/L)
BENZENE	2117.50	25.00
TOLUENE	8417.96	25.00
ETHYLBENZENE	5404.98	25.00
p-XYLENE	3236.92	25.00
m-XYLENE	6073.94	25.00
o-XYLENE	4319.59	25.00

TOTAL BTEX	29570.89
TOTAL XYLENE	13630.45

ANALYST: Charles E. Francis

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BTEX REPORT

CLIENT	UNITED STATES AIR FORCE
PROJECT NO.	2492001270
SAMPLE DATE	09/30/92
DATE RECEIVED	09/30/92
DATE OF EXTRACTION	N/A
DATE OF ANALYSIS	10/01/92
SAMPLE ID	92135438
LAB NO.	92035453
FIELD ID	MW-2
MATRIX	LIQUID
METHOD OF TEST	EPA METHOD 8020

PARAMETER	RESULTS (ug/L)	DETECTION LIMIT (ug/L)
BENZENE	<25.00	25.00
TOLUENE	42.62	25.00
ETHYLBENZENE	2078.12	25.00
p-XYLENE	1317.87	25.00
m-XYLENE	2422.58	25.00
o-XYLENE	884.17	25.00

TOTAL BTEX	6745.36
TOTAL XYLENE	4624.62

ANALYST: Charles P. Franco

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BTEX REPORT

CLIENT	UNITED STATES AIR FORCE
PROJECT NO.	2492001270
SAMPLE DATE	09/30/92
DATE RECEIVED	09/30/92
DATE OF EXTRACTION	N/A
DATE OF ANALYSIS	10/01/92
SAMPLE ID	92135435
LAB NO.	92035450
FIELD ID	MW-A
MATRIX	LIQUID
METHOD OF TEST	EPA METHOD 8020

PARAMETER	RESULTS (ug/L)	DETECTION LIMIT (ug/L)
BENZENE	<5.00	5.00
TOLUENE	<5.00	5.00
ETHYLBENZENE	<5.00	5.00
p-XYLENE	<5.00	5.00
m-XYLENE	<5.00	5.00
o-XYLENE	<5.00	5.00

TOTAL BTEX	<5.00
TOTAL XYLENE	<5.00

ANALYST: Charles R. Fiasco

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Client: UNITED STATES AIR FORCE

Date of Extraction: 09/28/92

Project #: 24920011270

Date of Analysis: 09/29/92

Sample Date: 09/21/92

Matrix: Liquid

Date Received: 09/22/92

TOTAL PETROLEUM HYDROCARBONS (EPA Method 418.1)

SAMPLE #	LAB #	FIELD ID	RESULTS (mg/l)	DETECTION LIMIT (mg/l)
92135355	92515360	MW1	15.2	1.0
92135356	92515361	MW2	4.0	1.0

ANALYST: Charles R. Frazier

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BTEX REPORT

CLIENT	UNITED STATES AIR FORCE
PROJECT NO.	2492001270
SAMPLE DATE	09/30/92
DATE RECEIVED	09/30/92
DATE OF EXTRACTION	N/A
DATE OF ANALYSIS	10/01/92
SAMPLE ID	92135436
LAB NO.	92035457
FIELD ID	MW-17M
MATRIX	LIQUID
METHOD OF TEST	EPA METHOD 8020

PARAMETER	RESULTS (ug/L)	DETECTION LIMIT (ug/L)
BENZENE	3960	2500
TOLUENE	222341	2500
ETHYLBENZENE	150980	2500
p-XYLENE	225417	2500
m-XYLENE	399497	2500
o-XYLENE	316278	2500

TOTAL BTEX	1318473
TOTAL XYLENE	941192

ANALYST: Charles E. Frasier

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Client: UNITED STATES AIR FORCE

Project #: 2492001270

Sample Date: 09/30/92

Date Received: 09/30/92

Date of Extraction: 10/02/92

Date of Analysis: 10/02/92

Matrix: Soil/Liquid

TOTAL PETROLEUM HYDROCARBONS (EPA Method 418.1)

SAMPLE #	LAB #	FIELD ID	RESULTS (ug/g)	DETECTION LIMIT (ug/g)
92135425	92515440	B-3; 3'-5'	<10.0	10.0
92135426	92515441	B-3; 9'-10'	51.2	10.0
92135427	92515442	B-3; 17.5'-20'	10.6	10.0
			MATRIX: LIQUID (mg/L)	(mg/L)
92135434	92515449	MW-A	16.0	1.0
92135436	92515451	MW-17M	1413.1	10.3

ANALYST: [signature]

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Albuquerque, New Mexico 87109
(505) 821-9070

CHAIN OF CUSTODY RECORD

PROJECT #: 249200/270

PROJECT MANAGER: Keva Ward

P.O. NUMBER:

SAMPLERS: (Signature) [signature] Keva

DATE	TIME	PRESERVATIVE	COMP.	GRAB	SAMPLE CONTAINER (SIZE/MAT'L)	SAMPLE TYPE (LIQUID SLUDGE, ETC)	SAMPLE LOCATION	ANALYSIS REQUESTED	DATE RESULTS NEEDED	SAMPLE NUMBER
9-21	1130	Ice HCL		x	Liter	Liquid	MW 1	TPH		92135355
	1230	Ice HCL		x	Liter	Liquid	MW 2	TPH		92135356

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)
[signature]	9-22 1000				
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED FOR LABORATORY BY: (Signature)	DATE / TIME	REMARKS	
		[signature]	9-22-92 1004	OCT 6 '92	

maxim

MAXIM ENGINEERS, INC.

CHAIN OF CUSTODY RECORD

PROJECT # 2A92001270 | PROJECT MANAGER KEVA WARD | P.O. NUMBER:

SAMPLERS: (Signature) Kevan Ward | DATE SAMPLED 9.30.92

FOR LAB USE ONLY

TIME	PRESERVATIVE	COMP.	GRAB	SAMPLE CONTAINER (SIZE/MAT'L)	SAMPLE TYPE (LIQUID SLUDGE, ETC)	SAMPLE LOCATION	ANALYSIS REQUESTED	DATE RESULTS NEEDED	LAB NUMBER	SECURITY SEAL (Y/N)	HEAD-SPACE (Y/N)	WATER IN SAMPLE (Y/N)	PACKED W/ICE (Y/N)	PRESERVED W/HCL (Y/N)	°C TEMP	DELIVERY*
9/30/92	ICE	✓		8oz GLASS	SOIL	B-3; 3 to 5 FEET	TPH/BTEX		92135425 ✓	N			Y		18.2	1
9/30/92	ICE	✓		8oz GLASS	SOIL	B-3; 9-10 FEET	TPH/BTEX		92135426 ✓	N			Y		16.8	1
9/30/92	ICE	✓		8oz GLASS	SOIL	B-3; 17½ - 20 FEET	TPH/BTEX		92135427 ✓	N		Y	Y		19.1	1
						B-3; 1-3 FEET	HOLD		92135428	N			Y		17.9	1
						B-3 5-7 FT	HOLD		92135429	N			Y		18.0	1
						B-3 7-9 FT	HOLD		92135430	N			Y		15.7	1
						B-3 10-12½	HOLD		92135431	N			Y		16.4	1
						B-3 12½-15	HOLD		92135432	N			Y		14.4	1
						B-3 15-17½	HOLD		92135433	N			Y		15.9	1
9/30/92	ICE/HCL		✓	1 LITER GLASS	LIQUID	MW-A	TPH } Same		92135434	N	N		Y	Y	20.7	1
9/30/92	ICE/HCL		✓	2 1.5 oz VIALS	LIQUID	MW-A	BTEX } Sample		92135435	N	N		Y	Y	—	1
9/30/92	ICE/HCL		✓	1 LITER 2 VIALS	LIQUID	MW-17M	TPH/BTEX		92135436 ✓	N	N		Y	Y	21.5	1
"	"		✓	1 LITER	"	MW-1	BTEX ONLY [redacted]		92135437 ✓	N	N		Y	Y	—	1
"	"		✓	1 LITER	"	MW-2	BTEX / [redacted]		92135438 ✓	N	N		Y	Y	—	1

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)
[signature]	9-30-92 1730				
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED FOR LABORATORY BY: (Signature)	DATE / TIME	REMARKS	
		(Charles R. Frazier)	9-30-92 1735	Rush per KEVA WARD 10-1-92	

REMARKS

*DELIVERY CODES - HAND (1) UPS (2) FED-X (3) AIRBORNE (4) TEXAS OVERNIGHT (5) OTHER (6)

(09/92)

TLT\CORRESP\DANA\FORMS\CHAIN-CU.RE

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ADMINISTRATIVE RECORD

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