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OHM Remediation Services Corp.
1230 Columbia Street, Suite 1200
San Diego, California 92101

Groundwater Data Summary at Tank Farm 2, Tank Farm 6, Tank 398 Site, and Tank Farm 555
Marine Corps Air Station
El Toro, California

SWDIV Contract No. N68711-93-D-1459 – Delivery Order No. 0070 – Revision 1
OHM Project No. 18609 – Document Control No. SW9631 – March 30, 2001

Technical Memorandum

Appendix A - Laboratory Analytical Reports; Appendix B - Field Notes

Technical Memorandum

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OHM Remediation Services Corp.

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James J. Franklin, Program Manager

Edwin G. Bond
Edwin G. Bond, Contracts Manager

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Abbreviations and Acronyms

BTEX	benzene, toluene, ethylbenzene, and total xylenes
DO	Delivery Order
EPA	U.S. Environmental Protection Agency
mg/L	milligrams per liter
MTBE	methyl tertiary-butyl ether
OCHCA	Orange County Health Care Agency
OHM	OHM Remediation Services. Corp.
TPH	total petroleum hydrocarbon
UST	underground storage tank

Section 1
Introduction

The purpose of this technical memorandum is to present the results of groundwater sampling activities conducted between 28 November and 14 December 2000 at the former petroleum storage facilities at Tank Farm 2, Tank Farm 6, Tank Farm 555, and the Tank 398 site at the Marine Corps Air Station, El Toro, California (the Station). Sampling activities were conducted by OHM Remediation Services Corp. (OHM) under Navy Contract N68711-93-D-1459, Delivery Order (DO) 70.

Groundwater samples were collected from 18 wells and analyzed by U.S. Environmental Protection Agency (EPA) Method 8015-modified (total petroleum hydrocarbons[TPH]) and one of the following methods: EPA Method 8260A (benzene, toluene, ethylbenzene, xylenes [BTEX] and methyl tertiary-butyl ether [MTBE]), EPA Method 300 (Sulfate) and EPA Method 310.1 (alkalinity).

The Station comprises approximately 4,700 acres and is located in eastern Orange County approximately 45 miles southeast of Los Angeles, California. The Station closed on 2 July 1999 in accordance with the Base Closure and Realignment Act of 1993.

Groundwater well locations are shown in Figure 1. Underground Storage Tank (UST) locations are shown in Figure 2 and analytical test results are presented in Figures 3 through 9.

Section 2
Groundwater Sampling Activities

Groundwater samples and water-level measurements were collected from eighteen (18) wells during December 2000, and the wells and water level measurements are presented in Table 1. Groundwater well locations are shown in Figure 1. A hard copy of laboratory test results with data validation reports are presented in the Appendix A. A summary of analytical results are presented in Table 2. Field notes are presented in Appendix B.

2.1 Tank Farm 2

Tank Farm 2 is located in the western section of the Station near West Marine Way and South 6th Street. All tanks were removed from the tank farm in 1995 with oversight by the Orange County Health Care Agency (OCHCA). No further action status for Tank Farm 2 (the former underground storage tank (UST) Sites 176, 177, 178, 179, 180, 181, 182, and 183) was designated by the California Regional Water Quality Control Board, Santa Ana Region on 27 March 2000.

A groundwater sample was collected from groundwater monitoring wells TF2-MW01 and 18-BGMW-18 on 8 December 2000 and 5 January 2001, respectively. TPH as gasoline was not detected above laboratory reporting limits in either samples. TPH as diesel was not detected above laboratory reporting limits in the sample collected from 18-BGMW-18 and was detected at a concentration of 0.19 milligrams per liter (mg/L) in the sample collected from TF2-MW01. Toluene, ethylbenzene, xylenes, and MTBE were not detected above laboratory reporting limits in the samples collected from both wells. Benzene was not detected above laboratory reporting limits in the sample collected from 18-BGMW-18 and was detected at a concentration of 41 µg/L in the sample collected from TF2-MW01.

2.2 Tank Farm 6

Tank Farm 6 is located in the northeastern section of the Station near the eastern terminus of the east-west runway. Two fuel storage tanks, USTs 204 and 206, were removed by OHM and samples were collected from UST Sites 204 and 206 in May and October 2000.

Groundwater samples were collected from groundwater monitoring wells – TF6-MW01 and TF6M-W02 in December 2000. TPH as diesel was not detected above laboratory reporting limits for samples collected at TF6. TPH as gasoline was not detected above laboratory reporting limits for samples collected from TF6-MW02 and was detected at a concentration of 0.84 mg/L for the sample collected from TF6-MW01. TPH as JP-5 was not detected above laboratory reporting limits for the sample collected from TF6-MW02 and was detected at a concentration of 0.12 mg/L for the sample collected from TF6-MW01. Benzene, toluene, ethylbenzene, xylenes, and MTBE were not detected above laboratory reporting limits with the exception of samples

collected from TF6-MW01, where benzene was detected at a concentration of 150 μg/L and total xylenes was detected at a concentration of 6.1 μg/L.

2.3 Tank Farm 555 Site

Tank Farm 555 is located in the northeastern section of the Station northeast of Irvine Boulevard. Five remaining fuel storage tanks (USTs 547, 548, 549, 550, and 551) are planned to be closed in place and bioventing testing was initiated in early fall 2000. One fuel recovery tank (UST T-1) was removed and closed by the OCHCA during the summer of 2000. USTs 553 and 554 were removed and no further action status was designated for these sites in 1997.

Groundwater samples were collected from groundwater monitoring wells – TF555 MW-01 and TF555 MW-05 during December 2000. TPH as diesel, TPH as gasoline, and TPH as JP-5 were not detected above laboratory reporting limits in samples collected from both TF555 MW-01 and TF555 MW-05. Additionally, benzene, toluene, ethylbenzene, xylenes, and MTBE were not detected above laboratory reporting limits in any of the samples.

2.4 Tank 398 Site

The Tank 398 site is located in the northeastern section of the Station near North 6th and Q Streets. Groundwater samples were collected from thirteen wells during November and December 2000: MW 398-01, MW398-04, MW398-09, MW398-12, MW398-13, MW398-17, MW398-19D, MW398-21, MW398-27, MW398-28, MW398-29, MW398-30 and ASTM398-02D.

TPH as diesel was not detected above laboratory reporting limits for samples collected at Tank 398 site. TPH as gasoline was not detected above laboratory reporting limits for samples collected at the Tank 398 site with the exception of samples collected from MW398-01 (1.6 mg/L), MW398-04 (0.67 mg/L), MW398-17 (0.9 mg/L), MW398-19D (1.8 mg/L) and MW398-2D (0.38 mg/L). TPH as JP-5 was not detected above laboratory limits for sample collected at Tank 398 site with the exception of samples collected from MW398-04 (0.61 mg/L), MW398-19D (1.7mg/L), MW398-28 (0.19 mg/L) and ASTM-398-02D (0.39 mg/L).

Toluene and MTBE were not detected above laboratory reporting limits in any of the samples collected from Tank 398 site. Benzene was not detected above laboratory reporting limits with the exception of samples collected from MW398-01 (9.5 μg/L), MW398-17 (11 μg/L), and MW398-19D (43 μg/L). Ethylbenzene was not detected above laboratory reporting limits with the exception of samples collected from MW398-01 (14 ug/L), MW398-04 (23 μg/L), and MW398-17 (23 μg/L). Xylenes were not detected above laboratory reporting limits with the exception of MW398-01 (9.7 μg/L) and MW398-19D (7.8 μg/L).

Groundwater analytical results from November and December 2000 round for Tank Farm 2, Tank Farm 6, Tank Farm 555, and Tank 398 Site are consistent with previous rounds of groundwater analytical data.

Quality Assurance/Quality Control

Field quality assurance/quality control (QA/QC) samples were collected during sampling activities to evaluate the consistency and accuracy of the analytical data. Field QC samples for the water samples consisted of equipment rinsate, soil sample duplicate, and trip blank samples as follows:

- Equipment rinsate samples were collected at a frequency of 1 per day.
- One duplicate soil sample was collected for every 10 samples collected (sample numbers 18609-3694 and 18609-3724).
- Trip blank samples were collected at a frequency of 1 blank for each cooler containing samples for VOC analysis.

Analytical results of the trip blank and equipment rinsate samples are summarized in Table 3.

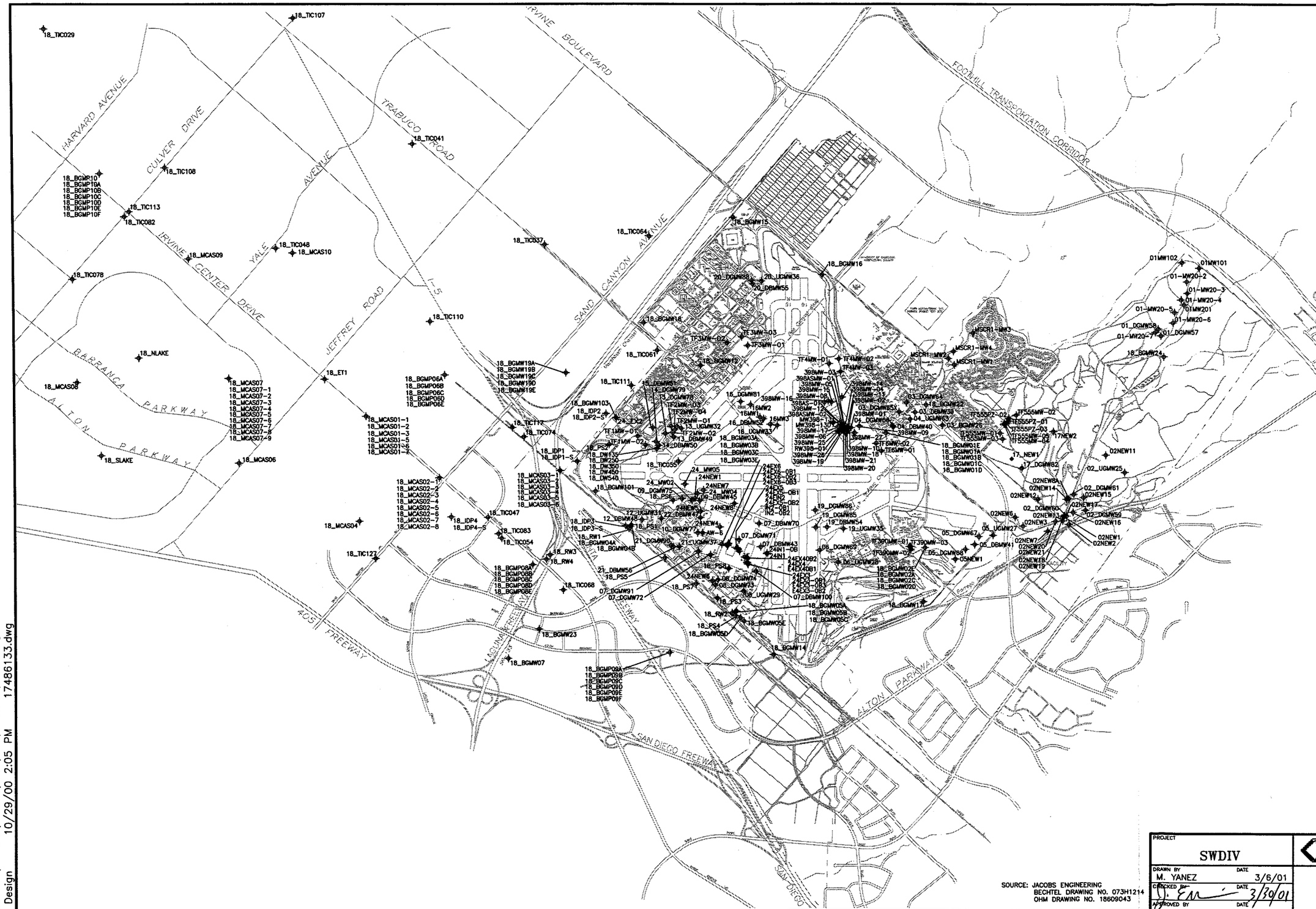
Section 3
References and/or Sources of Information

OHM, see OHM Remediation Services Corp.

OHM Remediation Services Corp., 1997, Technical Memorandum, Groundwater Monitoring Report, Petroleum Storage Facilities at Various Locations, Marine Corps Air Station, El Toro, California, November, [Navy Contract N68711-93-D-1459, Delivery Order 50].

OHM Remediation Services Corp., 2001, Technical Information Package for Groundwater Monitoring Program, January, [Navy Contract N68711-93-D-1459, Delivery Order 70].

Figures



LEGEND

- ROAD
- FREEWAY
- MCAS EL TORO BOUNDARY
- STREAM OR WASH
- 02_DGMW60 MONITORING WELL
- WATER SUPPLY WELL
- PIEZOMETER WELL

GRAPHIC SCALE
0 750 1,500 3,000
(IN FEET)

SOURCE: JACOBS ENGINEERING
BECHTEL DRAWING NO. 073H1214
OHM DRAWING NO. 18609043

REVISIONS			
REV. No.	DESCRIPTION	DATE	APPROVED

PROJECT	SWDIV
DRAWN BY	M. YANEZ — DATE 3/6/01
CHECKED BY	DATE 3/30/01
APPROVED BY	DATE
PROJECT MANAGER	DATE
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SCALE	AS NOTED
SHEET	1
OF	1
DOCUMENT CONTROL No.	SW9631
OHM PROJECT No.	17486
DRAWING No.	FIG. 1

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WATER WELLS MAP

MCAS
EL TORO, CALIFORNIA

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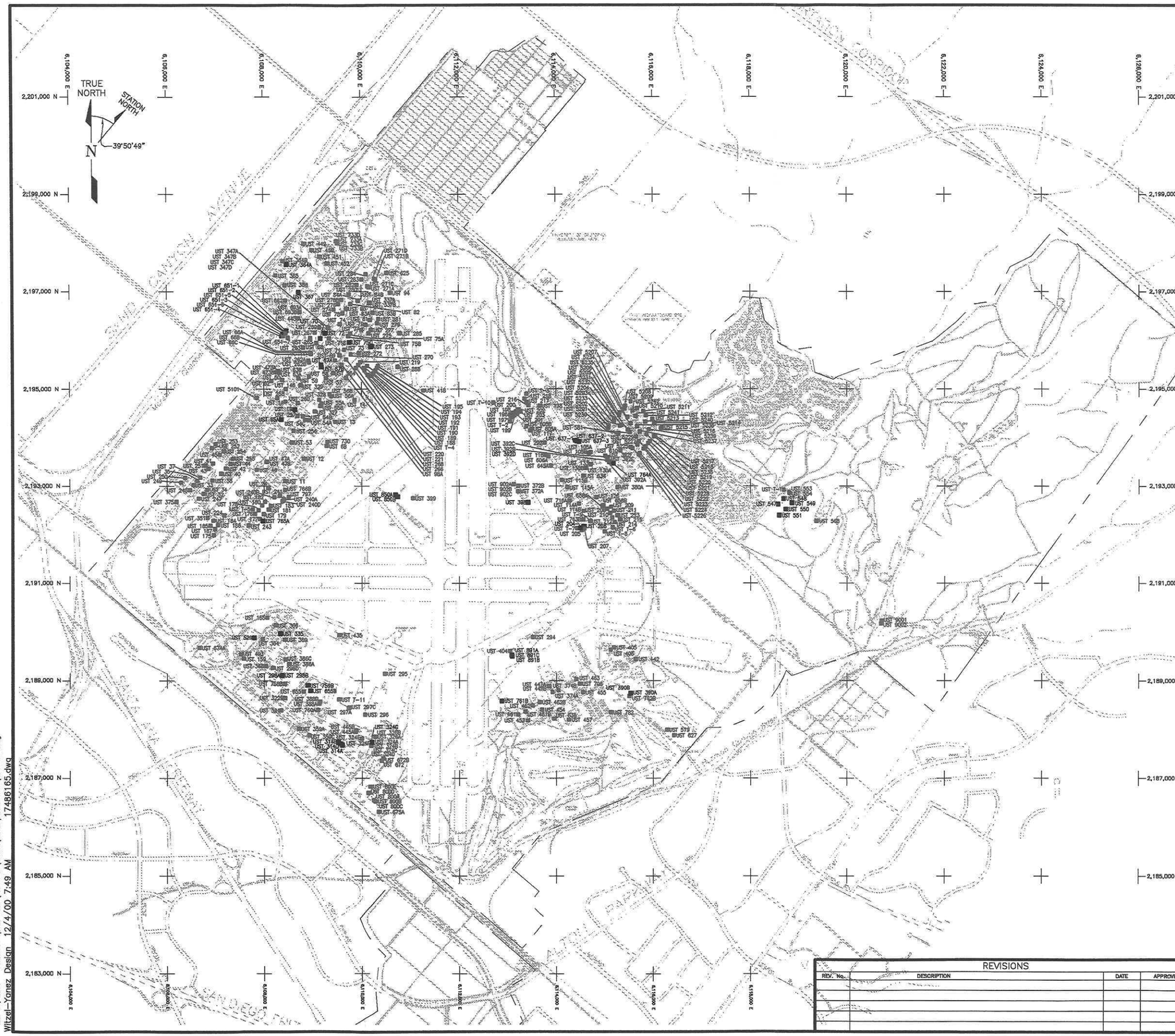

REGULATORY CLOSURES OF UNDERGROUND STORAGE TANK SITES CALENDAR YEAR TOTALS

CALENDAR YEAR	NUMBER OF REGULATORY CLOSURES
1995	9
1996	162
1997	81
1998	33
1999	30
2000	38
TOTAL AS OF 31 DECEMBER 1999	353

EXPLANATION:

- ■ UNDERGROUND STORAGE TANKS
- ■ CLOSED UNDERGROUND STORAGE TANKS

FORMER FUEL DISPENSING AREAS:
UST SITES 390A & 390B
UST SITES 240A & 240D
UST SITES 55A & 55B
UST SITES 392A, 392B & 392C
UST SITE 797

FUEL DISPENSING AREAS:
UST SITES 298A & 298B
UST SITES 392D, 392E & 392F
UST SITE 388B
UST SITES 800A, 800B & 800C
UST SITES 651-1 THROUGH 651-4
UST SITES 637-1 THROUGH 637-3

REFERENCE:
BECHTEL NATIONAL INC. DRAWING
FILE NO. 075U1703

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(IN FEET)

REVISIONS			
REV. No.	DESCRIPTION	DATE	APPROVED

PROJECT	SWDIV
DRAWN BY	M.YANEZ
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DATE	3/30/01
APPROVED BY	
DATE	
PROJECT MANAGER	
DATE	
AUTOCAD FILE No.	17486165.DWG

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UST PROGRAM MAP

MARINE CORPS AIR STATION EL TORO, CALIFORNIA

SCALE	SHEET	OF	DOCUMENT CONTROL No.	OHM PROJECT No.	DRAWING No.
AS NOTED	1	1	SW9631	17486	FIG. 2

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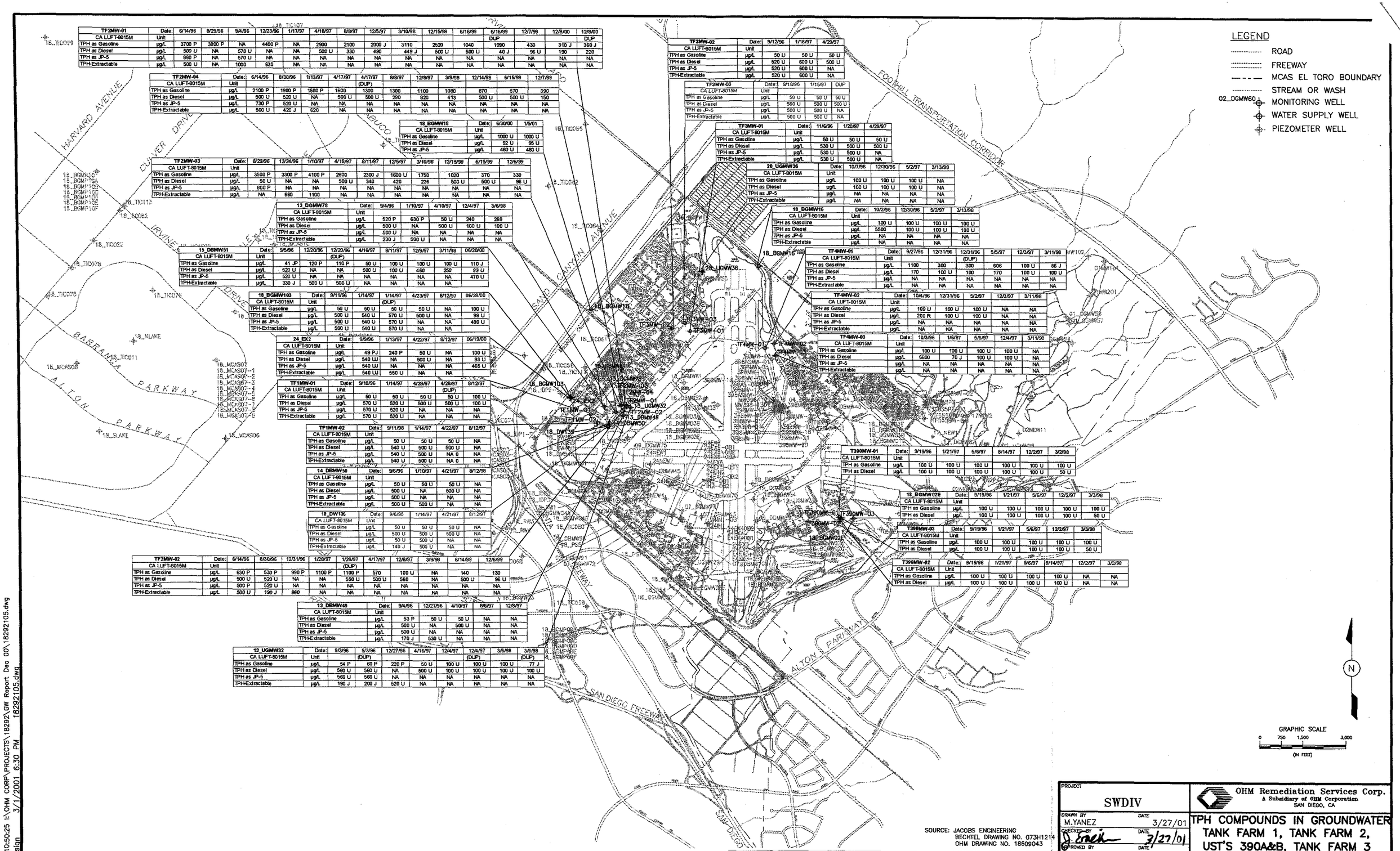


TF2MW-01	Date:	6/14/96	8/29/96	9/4/96	12/23/96	1/17/97	4/16/97	8/8/97	12/5/97	3/10/98	12/15/98	6/16/99	6/16/99	12/7/99	12/8/00	12/8/00
CA LUFT-8015M	Unit												DUP			DUP
TPH as Gasoline	µg/L	3700 P	3800 P	NA	4400 P	NA	2900	2100	2000 J	3110	2520	1040	1050	430	310 J	360 J
TPH as Diesel	µg/L	500 U	NA	570 U	NA	NA	500 U	330	490	449 J	500 U	500 U	40 J	96 U	190	220
TPH as JP-5	µg/L	860 P	NA	570 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TPH-Extractable	µg/L	500 U	NA	1000	630	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

TF2MW-04	Date:	6/14/96	8/30/96	1/13/97	4/17/97	4/17/97	8/8/97	12/8/97	3/9/98	12/14/98	6/15/99	12/7/99
CA LUFT-8015M	Unit					(DUP)						
TPH as Gasoline	µg/L	2100 P	1900 P	1500 P	1600	1300	1300	1100	1080	870	570	390
TPH as Diesel	µg/L	500 U	520 U	NA	500 U	500 U	290	820	413	500 U	500 U	150
TPH as JP-5	µg/L	730 P	520 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
TPH-Extractable	µg/L	500 U	420 J	620	NA	NA	NA	NA	NA	NA	NA	NA

18_BGMW18	Date:	6/30/00	1/5/01
CA LUFT-8015M	Unit		
TPH as Gasoline	µg/L	1000 U	1000 U
TPH as Diesel	µg/L	92 U	95 U
TPH as JP-5	µg/L	460 U	480 U

TF2MW-03	Date:	8/29/96	12/24/96	1/10/97	4/18/97	8/11/97	12/5/97	3/10/98	12/15/98	6/15/99	12/6/99
CA LUFT-8015M	Unit										
TPH as Gasoline	µg/L	3500 P	3300 P	4100 P	2800	2300 J	1600 U	1750	1020	370	330
TPH as Diesel	µg/L	50 U	NA	NA	500 U	340	420	226	500 U	500 U	96 U
TPH as JP-5	µg/L	800 P	NA	NA	NA	NA	NA	NA	NA	NA	NA
TPH-Extractable	µg/L	NA	680	1100	NA	NA	NA	NA	NA	NA	NA

13_DGMW78	Date:	9/4/96	1/10/97	4/10/97	12/4/97	3/6/98
CA LUFT-8015M	Unit					
TPH as Gasoline	µg/L	520 P	630 P	50 U	240	269
TPH as Diesel	µg/L	500 U	NA	500 U	100 U	100 U
TPH as JP-5	µg/L	500 U	NA	NA	NA	NA
TPH-Extractable	µg/L	230 J	500 U	NA	NA	NA

15_DBMW51	Date:	9/5/96	12/20/96	12/20/96	4/16/97	8/11/97	12/9/97	3/11/98	06/20/00
CA LUFT-8015M	Unit			(DUP)					
TPH as Gasoline	µg/L	41 JP	120 P	110 P	50 U	100 U	100 U	100 U	110 J
TPH as Diesel	µg/L	520 U	NA	NA	500 U	100 U	460	250	93 U
TPH as JP-5	µg/L	520 U	NA	NA	NA	NA	NA	NA	470 U
TPH-Extractable	µg/L	330 J	500 U	500 U	NA	NA	NA	NA	

18_BGMW103	Date:	9/11/96	1/14/97	1/14/97	4/23/97	8/12/97	06/28/00
CA LUFT-8015M	Unit			(DUP)			
TPH as Gasoline	µg/L	50 U	50 U	50 U	50 U	NA	100 U
TPH as Diesel	µg/L	500 U	540 U	570 U	500 U	NA	98 U
TPH as JP-5	µg/L	500 U	540 U	570 U	NA	NA	490 U
TPH-Extractable	µg/L	500 U	540 U	570 U	NA	NA	

24_EX2	Date:	9/9/96	1/13/97	4/22/97	8/12/97	06/19/00
CA LUFT-8015M	Unit					
TPH as Gasoline	µg/L	49 PJ	240 P	50 U	NA	100 U
TPH as Diesel	µg/L	540 UJ	NA	500 U	NA	93 U
TPH as JP-5	µg/L	540 UJ	NA	NA	NA	465 U
TPH-Extractable	µg/L	540 UJ	550 U	NA	NA	

TF1MW-01	Date:	9/10/96	1/14/97	4/28/97	4/28/97	8/12/97
CA LUFT-8015M	Unit				(DUP)	
TPH as Gasoline	µg/L	50 U	50 U	50 U	50 U	100 U
TPH as Diesel	µg/L	570 U	520 U	500 U	500 U	100 U
TPH as JP-5	µg/L	570 U	520 U	NA	NA	NA
TPH-Extractable	µg/L	570 U	520 U	NA	NA	NA

TF1MW-02	Date:	9/11/96	1/14/97	4/22/97	8/12/97
CA LUFT-8015M	Unit				
TPH as Gasoline	µg/L	50 U	50 U	50 U	NA
TPH as Diesel	µg/L	540 U	500 U	500 U	NA
TPH as JP-5	µg/L	540 U	500 U	NA 0	NA
TPH-Extractable	µg/L	540 U	500 U	NA 0	NA

14_DBMW50	Date:	9/6/96	1/10/97	4/21/97	8/12/98
CA LUFT-8015M	Unit				
TPH as Gasoline	µg/L	50 U	50 U	50 U	NA
TPH as Diesel	µg/L	500 U	NA	500 U	NA
TPH as JP-5	µg/L	500 U	NA	NA	NA
TPH-Extractable	µg/L	500 U	500 U	NA	NA

18_DW136	Date:	9/6/96	1/14/97	4/21/97	8/12/97
CA LUFT-8015M	Unit				
TPH as Gasoline	µg/L	50 U	50 U	50 U	NA
TPH as Diesel	µg/L	500 U	500 U	500 U	NA
TPH as JP-5	µg/L	50 U	500 U	NA	NA
TPH-Extractable	µg/L	140 J	500 U	NA	NA

TF2MW-02	Date:	6/14/96	8/30/96	12/31/96	1/28/97	1/28/97	4/17/97	12/8/97	3/9/98	6/14/99	12/6/99
CA LUFT-8015M	Unit					(DUP)					
TPH as Gasoline	µg/L	630 P	530 P	990 P	1100 P	1100 P	570	100 U	NA	140	130
TPH as Diesel	µg/L	500 U	520 U	NA	NA	550 U	500 U	560	NA	500 U	96 U
TPH as JP-5	µg/L	500 P	520 U	NA	NA	NA	NA	NA	NA	NA	NA
TPH-Extractable	µg/L	500 U	190 J	860	NA	NA	NA	NA	NA	NA	NA

13_DBMW49	Date:	9/4/96	12/27/96	4/10/97	8/6/97	12/8/97
CA LUFT-8015M	Unit					
TPH as Gasoline	µg/L	53 P	50 U	50 U	NA	NA
TPH as Diesel	µg/L	500 U	NA	500 U	NA	NA
TPH as JP-5	µg/L	500 U	NA	NA	NA	NA
TPH-Extractable	µg/L	170 J	530 U	NA	NA	NA

13_UGMW32	Date:	9/3/96	9/3/96	12/27/96	4/16/97	12/4/97	12/4/97	3/6/98	3/6/98
CA LUFT-8015M	Unit		(DUP)				(DUP)		(DUP)
TPH as Gasoline	µg/L	54 P	60 P	220 P	50 U	100 U	100 U	100 U	77 J
TPH as Diesel	µg/L	560 U	560 U	NA	500 U	100 U	100 U	100 U	100 U
TPH as JP-5	µg/L	560 U	560 U	NA	NA	NA	NA	NA	NA
TPH-Extractable	µg/L	190 J	200 J	520 U	NA	NA	NA	NA	NA

TF3MW-02	Date:	9/12/96	1/16/97	4/29/97
CA LUFT-6015M	Unit			
TPH as Gasoline	µg/L	50 U	50 U	50 U
TPH as Diesel	µg/L	520 U	600 U	500 U
TPH as JP-5	µg/L	520 U	600 U	NA
TPH-Extractable	µg/L	520 U	600 U	NA

TF3MW-03	Date:	9/18/96	1/15/97	DUP
CA LUFT-6015M	Unit			
TPH as Gasoline	µg/L	50 U	50 U	50 U
TPH as Diesel	µg/L	560 U	500 U	500 U
TPH as JP-5	µg/L	560 U	500 U	NA
TPH-Extractable	µg/L	500 U	500 U	NA

TF3MW-01	Date:	11/6/96	1/20/97	4/29/97
CA LUFT-8015M	Unit			
TPH as Gasoline	µg/L	50 U	50 U	50 U
TPH as Diesel	µg/L	530 U	500 U	500 U
TPH as JP-5	µg/L	530 U	500 U	NA
TPH-Extractable	µg/L	530 U	500 U	NA

20_UGMW36	Date:	10/7/96	12/30/96	5/2/97	3/13/98
CA LUFT-8015M	Unit				
TPH as Gasoline	µg/L	100 U	100 U	100 U	NA
TPH as Diesel	µg/L	100 U	100 U	100 U	NA
TPH as JP-5	µg/L	NA	NA	NA	NA
TPH-Extractable	µg/L	NA	NA	NA	NA

18_BGMW16	Date:	10/2/96	12/30/96	5/2/97	3/13/98
CA LUFT-8015M	Unit				
TPH as Gasoline	µg/L	100 U	100 U	100 U	100 U
TPH as Diesel	µg/L	5500	100 U	100 U	100 U
TPH as JP-5	µg/L	NA	NA	NA	NA
TPH-Extractable	µg/L	NA	NA	NA	NA

TF4MW-01	Date:	9/27/96	12/31/96	12/31/96	5/5/97	12/3/97	3/11/98
CA LUFT-8015M	Unit			(DUP)			
TPH as Gasoline	µg/L	1100	300	300	606	100 U	86 J
TPH as Diesel	µg/L	170	100 U	100	170	100 U	100 U
TPH as JP-5	µg/L	NA	NA	NA	NA	NA	NA
TPH-Extractable	µg/L	NA	NA	NA	NA	NA	NA

TF4MW-02	Date:	10/4/96	12/31/96	5/2/97	12/3/97	3/11/98
CA LUFT-8015M	Unit					
TPH as Gasoline	µg/L	100 U	100 U	100 U	NA	NA
TPH as Diesel	µg/L	200 R	100 U	100 U	NA	NA
TPH as JP-5	µg/L	NA	NA	NA	NA	NA
TPH-Extractable	µg/L	NA	NA	NA	NA	NA

TF4MW-03	Date:	10/3/96	1/6/97	5/6/97	12/4/97	3/11/98
CA LUFT-8015M	Unit					
TPH as Gasoline	µg/L	100 U	100 U	100 U	100 U	NA
TPH as Diesel	µg/L	6600	70 J	100 U	100 U	NA
TPH as JP-5	µg/L	NA	NA	NA	NA	NA
TPH-Extractable	µg/L	NA	NA	NA	NA	NA

T390MW-01	Date:	9/19/96	1/21/97	5/6/97	8/14/97	12/2/97	3/2/98
CA LUFT-8015M	Unit						
TPH as Gasoline	µg/L	100 U	100 U	100 U	100 U	100 U	100 U
TPH as Diesel	µg/L	100 U	100 U	100 U	100 U	100 U	50 U

18_BGMW02E	Date:	9/19/96	1/21/97	5/6/97	12/2/97	3/3/98
CA LUFT-8015M	Unit					
TPH as Gasoline	µg/L	100 U	100 U	100 U	100 U	100 U
TPH as Diesel	µg/L	100 U	100 U	100 U	100 U	50 U

T390MW-03	Date:	9/19/96	1/21/97	5/6/97	12/2/97	3/3/98
CA LUFT-8015M	Unit					
TPH as Gasoline	µg/L	100 U	100 U	100 U	100 U	100 U
TPH as Diesel	µg/L	100 U	100 U	100 U	100 U	50 U

T390MW-02	Date:	9/19/96	1/21/97	5/6/97	8/14/97	12/2/97	3/2/98
CA LUFT-8015M	Unit						
TPH as Gasoline	µg/L	100 U	100 U	100 U	100 U	NA	NA
TPH as Diesel	µg/L	100 U	100 U	100 U	100 U	NA	NA

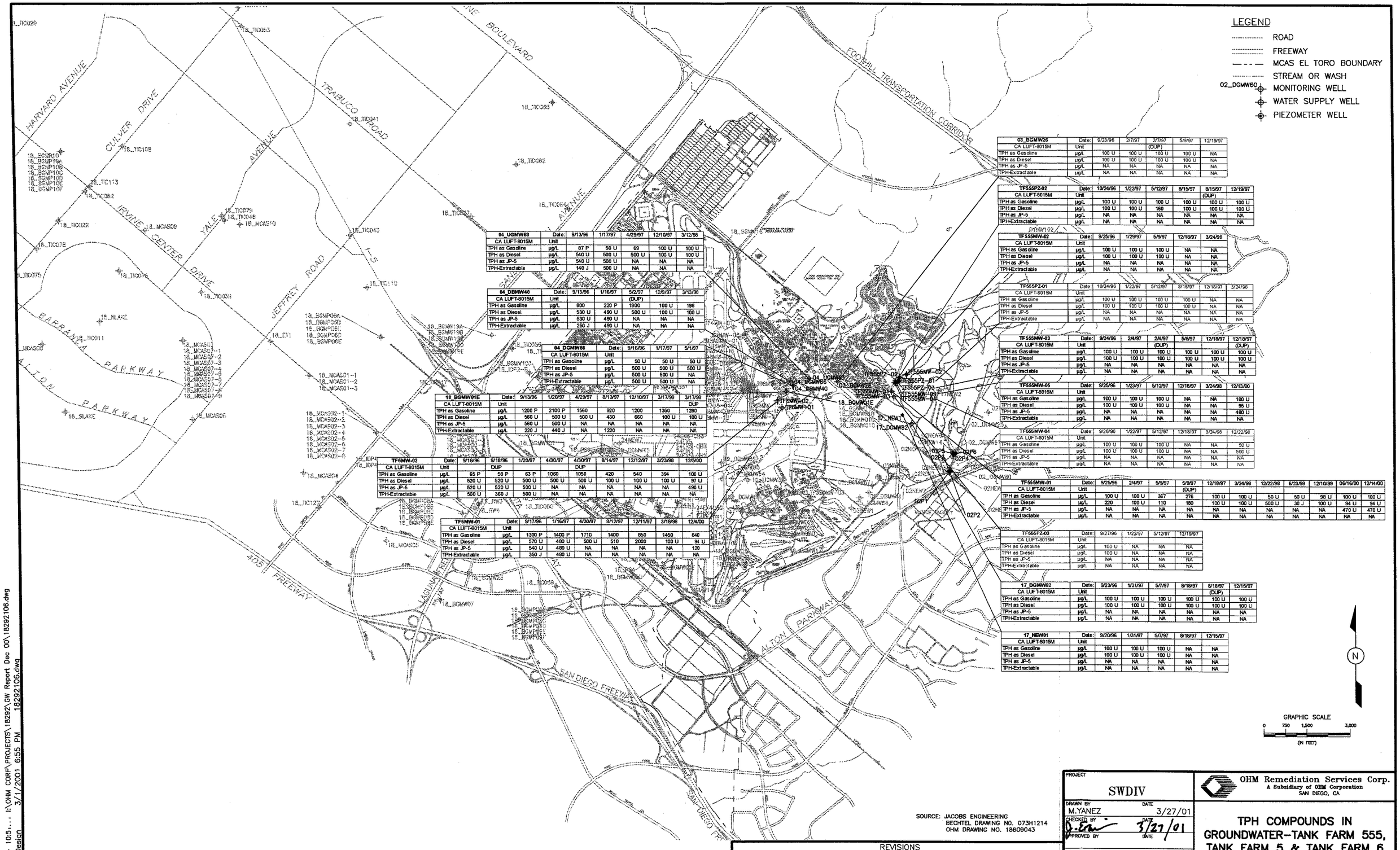
SOURCE: JACOBS ENGINEERING
BECHTEL DRAWING NO. 073H1214
OHM DRAWING NO. 18509043

REVISIONS			
REV. No.	DESCRIPTION	DATE	APPROVED
0	GENERAL REVISION	9/29/99	

PROJECT: SWDIV	OHM Remediation Services Corp. A Subsidiary of OHM Corporation SAN DIEGO, CA
DRAWN BY: M.YANEZ DATE: 3/27/01	TPH COMPOUNDS IN GROUNDWATER TANK FARM 1, TANK FARM 2, UST'S 390A&B, TANK FARM 3 AND TANK FARM 4
CHECKED BY: D. Brack DATE: 3/27/01	MCAS EL TORO, CALIFORNIA
APPROVED BY: DATE:	
PROJECT MANAGER: DATE:	
AUTOCAD FILE No.: 18292105.DWG	

SCALE	SHEET	OF	DOCUMENT CONTROL No.	OHM PROJECT No.	DRAWING No.
AS NOTED	1	1	SW9631	18292	FIG. 3

Mar 27, 2001 – 10:50:25 I:\OHM_CORP\PROJECTS\18292\GW Report Dec 00\18292105.dwg
Witzel-Yanez Design 3/1/2001 6:30 PM 18292105.dwg



03_BGMW26	Date:	9/23/96	2/7/97	2/7/97	5/9/97	12/19/97
CA LUFT-8015M	Unit			(DUP)		
TPH as Gasoline	µg/L	100 U	100 U	100 U	100 U	NA
TPH as Diesel	µg/L	100 U	100 U	100 U	100 U	NA
TPH as JP-5	µg/L	NA	NA	NA	NA	NA
TPH-Extractable	µg/L	NA	NA	NA	NA	NA

TF555PZ-02	Date:	10/24/96	1/22/97	5/12/97	8/15/97	8/15/97	12/19/97
CA LUFT-8015M	Unit					(DUP)	
TPH as Gasoline	µg/L	100 U	100 U	100 U	100 U	100 U	100 U
TPH as Diesel	µg/L	100 U	100 U	160	100 U	100 U	100 U
TPH as JP-5	µg/L	NA	NA	NA	NA	NA	NA
TPH-Extractable	µg/L	NA	NA	NA	NA	NA	NA

TF555MW-02	Date:	9/25/96	1/29/97	5/9/97	12/18/97	3/24/98
CA LUFT-8015M	Unit					
TPH as Gasoline	µg/L	100 U	100 U	100 U	NA	NA
TPH as Diesel	µg/L	100 U	100 U	100 U	NA	NA
TPH as JP-5	µg/L	NA	NA	NA	NA	NA
TPH-Extractable	µg/L	NA	NA	NA	NA	NA

TF555PZ-01	Date:	10/24/96	1/22/97	5/12/97	8/15/97	12/18/97	3/24/98
CA LUFT-8015M	Unit						
TPH as Gasoline	µg/L	100 U	100 U	100 U	100 U	NA	NA
TPH as Diesel	µg/L	100 U	100 U	100 U	100 U	NA	NA
TPH as JP-5	µg/L	NA	NA	NA	NA	NA	NA
TPH-Extractable	µg/L	NA	NA	NA	NA	NA	NA

TF555MW-03	Date:	9/24/96	2/4/97	2/4/97	5/8/97	12/18/97	12/18/97
CA LUFT-8015M	Unit			(DUP)			(DUP)
TPH as Gasoline	µg/L	100 U	100 U	100 U	100 U	100 U	100 U
TPH as Diesel	µg/L	100 U	100 U	100 U	100 U	100 U	100 U
TPH as JP-5	µg/L	NA	NA	NA	NA	NA	NA
TPH-Extractable	µg/L	NA	NA	NA	NA	NA	NA

TF555MW-05	Date:	9/25/96	1/23/97	5/12/97	12/18/97	3/24/98	12/13/00
CA LUFT-8015M	Unit						
TPH as Gasoline	µg/L	100 U	100 U	100 U	NA	NA	100 U
TPH as Diesel	µg/L	100 U	100 U	100 U	NA	NA	95 U
TPH as JP-5	µg/L	NA	NA	NA	NA	NA	480 U
TPH-Extractable	µg/L	NA	NA	NA	NA	NA	NA

TF666MW-04	Date:	9/26/96	1/22/97	5/12/97	12/18/97	3/24/98	12/22/98
CA LUFT-8015M	Unit						
TPH as Gasoline	µg/L	100 U	100 U	100 U	NA	NA	50 U
TPH as Diesel	µg/L	100 U	100 U	100 U	NA	NA	500 U
TPH as JP-5	µg/L	NA	NA	NA	NA	NA	NA
TPH-Extractable	µg/L	NA	NA	NA	NA	NA	NA

TF555MW-01	Date:	9/25/96	2/4/97	5/9/97	5/9/97	12/18/97	3/24/98	12/22/98	6/23/99	12/10/99	06/16/00	12/14/00
CA LUFT-8015M	Unit				(DUP)							
TPH as Gasoline	µg/L	100 U	100 U	367	276	100 U	100 U	50 U	50 U	98 U	100 U	100
TPH as Diesel	µg/L	220	100 U	110	180	100 U	100 U	500 U	30 J	100 U	94 U	94 U
TPH as JP-5	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	470 U	470 U
TPH-Extractable	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

TF555PZ-03	Date:	9/27/96	1/22/97	5/12/97	12/19/97
CA LUFT-8015M	Unit				
TPH as Gasoline	µg/L	100 U	NA	NA	NA
TPH as Diesel	µg/L	100 U	NA	NA	NA
TPH as JP-5	µg/L	NA	NA	NA	NA
TPH-Extractable	µg/L	NA	NA	NA	NA

17_DGMW82	Date:	9/23/96	1/31/97	5/7/97	8/18/97	8/18/97	12/15/97
CA LUFT-8015M	Unit					(DUP)	
TPH as Gasoline	µg/L	100 U	100 U	100 U	100 U	100 U	100 U
TPH as Diesel	µg/L	100 U	100 U	100 U	100 U	100 U	100 U
TPH as JP-5	µg/L	NA	NA	NA	NA	NA	NA
TPH-Extractable	µg/L	NA	NA	NA	NA	NA	NA

17_NEW91	Date:	9/20/96	1/31/97	5/7/97	8/18/97	12/15/97
CA LUFT-8015M	Unit					
TPH as Gasoline	µg/L	100 U	100 U	100 U	NA	NA
TPH as Diesel	µg/L	100 U	100 U	100 U	NA	NA
TPH as JP-5	µg/L	NA	NA	NA	NA	NA
TPH-Extractable	µg/L	NA	NA	NA	NA	NA

04_UGMW63	Date:	9/13/96	1/17/97	4/29/97	12/10/97	3/12/98
CA LUFT-8015M	Unit					
TPH as Gasoline	µg/L	87 P	50 U	69	100 U	100 U
TPH as Diesel	µg/L	540 U	500 U	500 U	100 U	100 U
TPH as JP-5	µg/L	540 U	500 U	NA	NA	NA
TPH-Extractable	µg/L	140 J	500 U	NA	NA	NA

04_DBMW40	Date:	9/13/96	1/16/97	5/2/97	12/9/97	3/13/98
CA LUFT-8015M	Unit			(DUP)		
TPH as Gasoline	µg/L	800	220 P	1800	100 U	198
TPH as Diesel	µg/L	530 U	490 U	500 U	100 U	100 U
TPH as JP-5	µg/L	530 U	490 U	NA	NA	NA
TPH-Extractable	µg/L	250 J	490 U	NA	NA	NA

04_DGMW66	Date:	9/16/96	1/17/97	5/1/97
CA LUFT-8015M	Unit			
TPH as Gasoline	µg/L	50 U	50 U	50 U
TPH as Diesel	µg/L	500 U	500 U	500 U
TPH as JP-5	µg/L	500 U	500 U	NA
TPH-Extractable	µg/L	500 U	500 U	NA

18_BGMW01E	Date:	9/13/96	1/20/97	4/29/97	8/13/97	12/10/97	3/17/98	3/17/98
CA LUFT-8015M	Unit							DUP
TPH as Gasoline	µg/L	1200 P	2100 P	1560	920	1200	1350	1260
TPH as Diesel	µg/L	560 U	500 U	500 U	430	660	100 U	100 U
TPH as JP-5	µg/L	560 U	500 U	NA	NA	NA	NA	NA
TPH-Extractable	µg/L	220 J	440 J	NA	1220	NA	NA	NA

TF6MW-02	Date:	9/18/96	9/18/96	1/20/97	4/30/97	4/30/97	8/14/97	12/12/97	3/23/98	12/5/00
CA LUFT-8015M	Unit		DUP			DUP				
TPH as Gasoline	µg/L	65 P	58 P	63 P	1060	1050	420	540	394	100 U
TPH as Diesel	µg/L	520 U	520 U	500 U	500 U	500 U	100 U	100 U	100 U	97 U
TPH as JP-5	µg/L	520 U	520 U	500 U	NA	NA	NA	NA	NA	490 U
TPH-Extractable	µg/L	500 U	360 J	500 U	NA	NA	NA	NA	NA	NA

TF6MW-01	Date:	9/17/96	1/16/97	4/30/97	8/12/97	12/11/97	3/18/98	12/4/00
CA LUFT-8015M	Unit							
TPH as Gasoline	µg/L	1300 P	1400 P	1710	1400	850	1450	640
TPH as Diesel	µg/L	570 U	480 U	500 U	510	2000	100 U	94 U
TPH as JP-5	µg/L	540 U	480 U	NA	NA	NA	NA	120
TPH-Extractable	µg/L	350 J	480 U	NA	NA	NA	NA	NA

SOURCE: JACOBS ENGINEERING
BECHTEL DRAWING NO. 073H1214
OHM DRAWING NO. 18609043

REVISIONS			
REV. No.	DESCRIPTION	DATE	APPROVED
0	GENERAL REVISION	9/29/99	

PROJECT: SWDIV

DRAWN BY: M.YANEZ DATE: 3/27/01

CHECKED BY: D. Erwin DATE: 3/27/01

APPROVED BY: DATE:

PROJECT MANAGER: DATE:

AUTOCAD FILE No.: 18292106.DWG

OHM Remediation Services Corp.
A Subsidiary of OHM Corporation
SAN DIEGO, CA

TPH COMPOUNDS IN GROUNDWATER–TANK FARM 555, TANK FARM 5 & TANK FARM 6
MCAS
EL TORO, CALIFORNIA

SCALE	SHEET	OF	DOCUMENT CONTROL No.	OHM PROJECT No.	DRAWING No.
AS NOTED	1	1	SW9631	18292	FIG. 4

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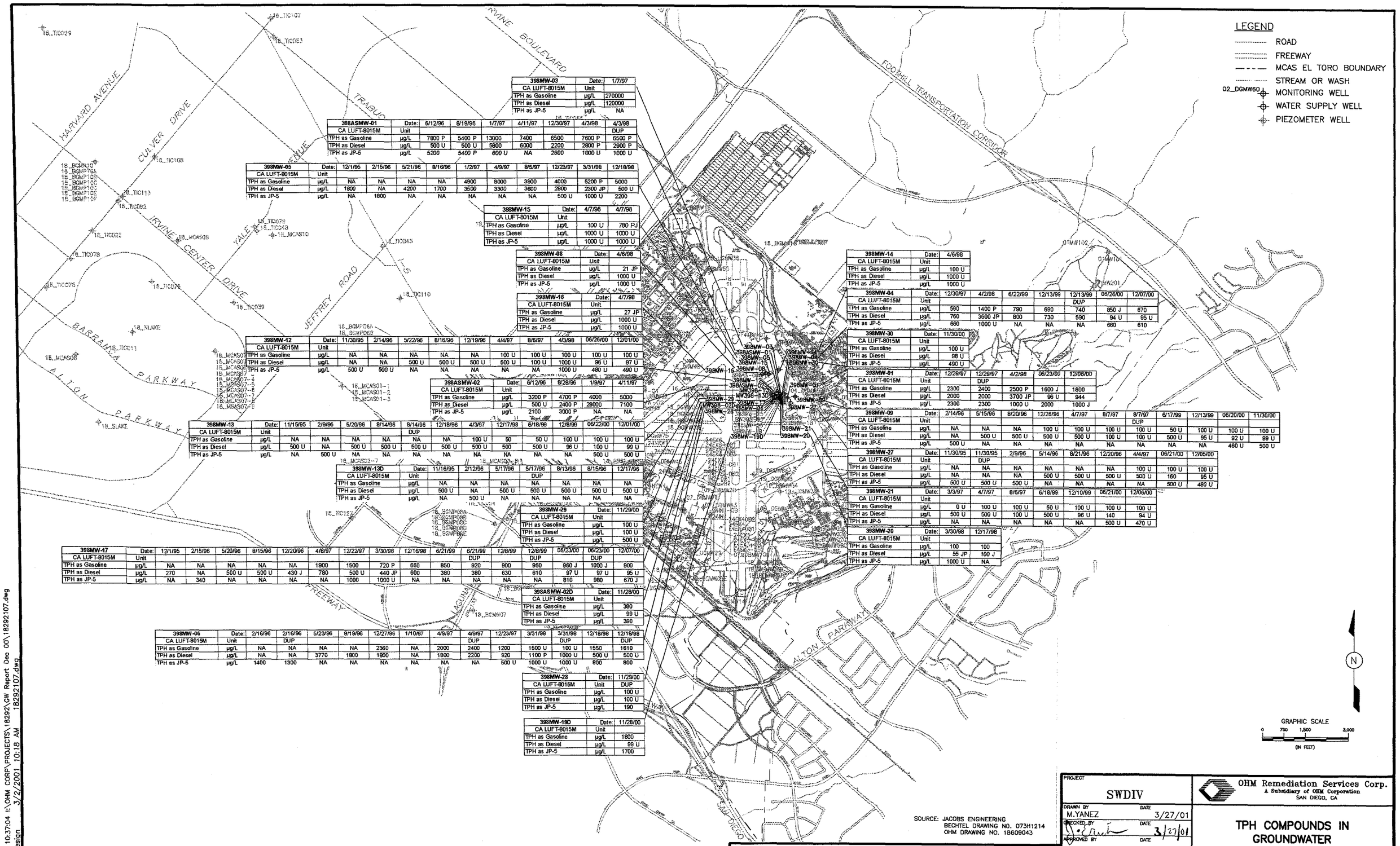

398MW-03	Date:	1/7/97
CA LUFT-8015M	Unit	
TPH as Gasoline	µg/L	270000
TPH as Diesel	µg/L	120000
TPH as JP-5	µg/L	NA

398ASMW-01	Date:	6/12/96	8/19/96	1/7/97	4/11/97	12/30/97	4/3/98	4/3/98
CA LUFT-8015M	Unit							DUP
TPH as Gasoline	µg/L	7800 P	5400 P	13000	7400	6500	7600 P	6500 P
TPH as Diesel	µg/L	500 U	500 U	5800	6000	2200	2800 P	2900 P
TPH as JP-5	µg/L	5200	5400 P	600 U	NA	2600	1000 U	1000 U

398MW-05	Date:	12/1/95	2/15/96	5/21/96	8/16/96	1/2/97	4/9/97	8/5/97	12/23/97	3/31/98	12/18/98
CA LUFT-8015M	Unit										
TPH as Gasoline	µg/L	NA	NA	NA	NA	4900	8000	3900	4000	5200 P	5000
TPH as Diesel	µg/L	1800	NA	4200	1700	3500	3300	3600	2800	2300 JP	500 U
TPH as JP-5	µg/L	NA	1800	NA	NA	NA	NA	NA	500 U	1000 U	2200

398MW-15	Date:	4/7/98	4/7/98
CA LUFT-8015M	Unit		
TPH as Gasoline	µg/L	100 U	780 PJ
TPH as Diesel	µg/L	1000 U	1000 U
TPH as JP-5	µg/L	1000 U	1000 U

398MW-08	Date:	4/6/98
CA LUFT-8015M	Unit	
TPH as Gasoline	µg/L	21 JP
TPH as Diesel	µg/L	1000 U
TPH as JP-5	µg/L	1000 U

398MW-16	Date:	4/7/98
CA LUFT-8015M	Unit	
TPH as Gasoline	µg/L	27 JP
TPH as Diesel	µg/L	1000 U
TPH as JP-5	µg/L	1000 U

398MW-12	Date:	11/30/95	2/14/96	5/22/96	8/16/96	12/19/96	4/4/97	8/6/97	4/3/98	06/26/00	12/01/00
CA LUFT-8015M	Unit										
TPH as Gasoline	µg/L	NA	NA	NA	NA	NA	100 U	100 U	100 U	100 U	100 U
TPH as Diesel	µg/L	NA	NA	500 U	500 U	500 U	500 U	100 U	1000 U	96 U	97 U
TPH as JP-5	µg/L	500 U	500 U	NA	NA	NA	NA	NA	1000 U	480 U	490 U

398ASMW-02	Date:	6/12/96	8/28/96	1/9/97	4/11/97
CA LUFT-8015M	Unit				
TPH as Gasoline	µg/L	3200 P	4700 P	4000	5000
TPH as Diesel	µg/L	500 U	2400 P	28000	7100
TPH as JP-5	µg/L	2100	3000 P	NA	NA

398MW-13	Date:	11/15/95	2/9/96	5/20/96	8/14/96	8/14/96	12/18/96	4/3/97	12/17/98	6/18/99	12/8/99	06/22/00	12/01/00
CA LUFT-8015M	Unit					DUP							
TPH as Gasoline	µg/L	NA	NA	NA	NA	NA	NA	100 U	50	50 U	100 U	100 U	100 U
TPH as Diesel	µg/L	500 U	NA	500 U	500 U	500 U	500 U	500 U	500	500 U	96 U	100 U	99 U
TPH as JP-5	µg/L	NA	500 U	NA	NA	NA	NA	NA	NA	NA	NA	500 U	500 U

398MW-13D	Date:	11/16/95	2/12/96	5/17/96	5/17/96	8/13/96	8/15/96	12/17/96
CA LUFT-8015M	Unit				DUP			
TPH as Gasoline	µg/L	NA	NA	NA	NA	NA	NA	NA
TPH as Diesel	µg/L	500 U	NA	500 U	500 U	500 U	500 U	500 U
TPH as JP-5	µg/L	NA	500 U	NA	NA	NA	NA	NA

398MW-29	Date:	11/29/00
CA LUFT-8015M	Unit	
TPH as Gasoline	µg/L	100 U
TPH as Diesel	µg/L	100 U
TPH as JP-5	µg/L	500 U

398MW-17	Date:	12/1/95	2/15/96	5/20/96	8/15/96	12/20/96	4/8/97	12/22/97	3/30/98	12/16/98	6/21/99	6/21/99	12/8/99	12/8/99	06/23/00	06/23/00	12/07/00
CA LUFT-8015M	Unit											DUP		DUP		DUP	
TPH as Gasoline	µg/L	NA	NA	NA	NA	NA	1900	1500	720 P	660	850	920	900	960	960 J	1000 J	900
TPH as Diesel	µg/L	270	NA	500 U	500 U	430 J	780	500 U	440 JP	600	380	380	630	610	97 U	97 U	95 U
TPH as JP-5	µg/L	NA	340	NA	NA	NA	NA	1000	1000 U	NA	NA	NA	NA	NA	810	980	670 J

398ASMW-02D	Date:	11/28/00
CA LUFT-8015M	Unit	
TPH as Gasoline	µg/L	380
TPH as Diesel	µg/L	99 U
TPH as JP-5	µg/L	390

398MW-06	Date:	2/16/96	2/16/96	5/23/96	8/19/96	12/27/96	1/10/97	4/9/97	4/9/97	12/23/97	3/31/98	3/31/98	12/18/98	12/18/98
CA LUFT-8015M	Unit		DUP						DUP			DUP		DUP
TPH as Gasoline	µg/L	NA	NA	NA	NA	2360	NA	2000	2400	1200	1500 U	100 U	1550	1610
TPH as Diesel	µg/L	NA	NA	3770	1800	1800	NA	1800	2200	920	1100 P	1000 U	500 U	500 U
TPH as JP-5	µg/L	1400	1300	NA	NA	NA	NA	NA	NA	500 U	1000 U	1000 U	800	800

398MW-28	Date:	11/29/00
CA LUFT-8015M	Unit	DUP
TPH as Gasoline	µg/L	100 U
TPH as Diesel	µg/L	100 U
TPH as JP-5	µg/L	190

398MW-19D	Date:	11/28/00
CA LUFT-8015M	Unit	
TPH as Gasoline	µg/L	1800
TPH as Diesel	µg/L	99 U
TPH as JP-5	µg/L	1700

398MW-14	Date:	4/6/98
CA LUFT-8015M	Unit	
TPH as Gasoline	µg/L	100 U
TPH as Diesel	µg/L	1000 U
TPH as JP-5	µg/L	1000 U

398MW-04	Date:	12/30/97	4/2/98	6/22/99	12/13/99	12/13/99	06/26/00	12/07/00
CA LUFT-8015M	Unit					DUP		
TPH as Gasoline	µg/L	590	1400 P	790	690	740	850 J	670
TPH as Diesel	µg/L	760	3600 JP	800	730	590	94 U	95 U
TPH as JP-5	µg/L	660	1000 U	NA	NA	NA	660	610

398MW-30	Date:	11/30/00
CA LUFT-8015M	Unit	
TPH as Gasoline	µg/L	100 U
TPH as Diesel	µg/L	98 U
TPH as JP-5	µg/L	490 U

398MW-01	Date:	12/29/97	12/29/97	4/2/98	06/23/00	12/06/00
CA LUFT-8015M	Unit		DUP			
TPH as Gasoline	µg/L	2300	2400	2500 P	1600 J	1600
TPH as Diesel	µg/L	2000	2000	3700 JP	96 U	944
TPH as JP-5	µg/L	2300	2300	1000 U	2000	1000 J

398MW-09	Date:	2/14/96	5/15/96	8/20/96	12/26/96	4/7/97	8/7/97	8/7/97	6/17/99	12/13/99	06/20/00	11/30/00
CA LUFT-8015M	Unit							DUP				
TPH as Gasoline	µg/L	NA	NA	NA	100 U	100 U	100 U	100 U	50 U	100 U	100 U	100 U
TPH as Diesel	µg/L	NA	500 U	500 U	500 U	500 U	100 U	100 U	500 U	95 U	92 U	99 U
TPH as JP-5	µg/L	500 U	NA	NA	NA	NA	NA	NA	NA	NA	460 U	500 U

398MW-27	Date:	11/30/95	11/30/95	2/9/96	5/14/96	8/21/96	12/20/96	4/4/97	06/21/00	12/06/00
CA LUFT-8015M	Unit		DUP							
TPH as Gasoline	µg/L	NA	NA	NA	NA	NA	NA	100 U	100 U	100 U
TPH as Diesel	µg/L	NA	NA	NA	500 U	500 U	500 U	500 U	160	95 U
TPH as JP-5	µg/L	500 U	500 U	500 U	NA	NA	NA	NA	500 U	480 U

398MW-21	Date:	3/3/97	4/7/97	8/6/97	6/18/99	12/10/99	06/21/00	12/06/00
CA LUFT-8015M	Unit							
TPH as Gasoline	µg/L	0 U	100 U	100 U	50 U	100 U	100 U	100 U
TPH as Diesel	µg/L	500 U	500 U	100 U	500 U	96 U	140	94 U
TPH as JP-5	µg/L	NA	NA	NA	NA	NA	500 U	470 U

398MW-20	Date:	3/30/98	12/17/98
CA LUFT-8015M	Unit		
TPH as Gasoline	µg/L	100	100
TPH as Diesel	µg/L	55 JP	100 J
TPH as JP-5	µg/L	1000 U	NA

SOURCE: JACOBS ENGINEERING
BECHTEL DRAWING NO. 073H1214
OHM DRAWING NO. 18609043

REVISIONS

REV. No.	DESCRIPTION	DATE	APPROVED
0	GENERAL REVISION	9/25/99	

PROJECT: SWDIV

OHM Remediation Services Corp.
A Subsidiary of OHM Corporation
SAN DIEGO, CA

DRAWN BY: M.YANEZ DATE: 3/27/01
CHECKED BY: DATE: 3/27/01
APPROVED BY: DATE:
PROJECT MANAGER: DATE:
AUTOCAD FILE No.: 18292107.DWG

TPH COMPOUNDS IN GROUNDWATER TANK 398

MCAS
EL TORO, CALIFORNIA

SCALE	SHEET	OF	DOCUMENT CONTROL No.	OHM PROJECT No.	DRAWING No.
AS NOTED	1	1	SW9631	18292	FIG. 5

Mar 27, 2001 - 10:37:04 I:\OHM CORP\PROJECTS\18292\GW Report Dec 00\18292107.dwg
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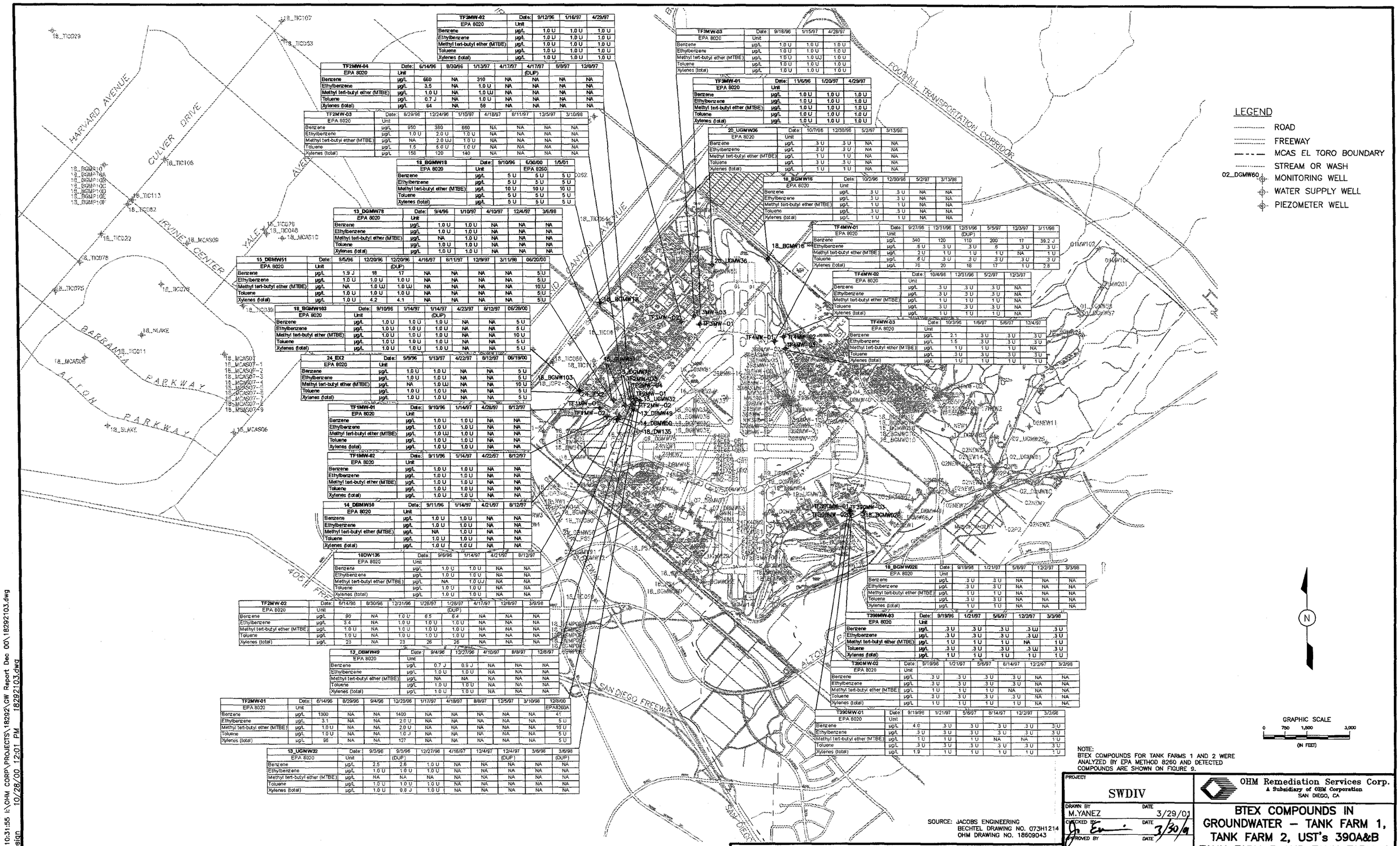

TF3MW-02	Date:	9/12/96	1/16/97	4/29/97
EPA 8020	Unit			
Benzene	µg/L	1.0 U	1.0 U	1.0 U
Ethylbenzene	µg/L	1.0 U	1.0 U	1.0 U
Methyl tert-butyl ether (MTBE)	µg/L	1.0 U	1.0 U	1.0 U
Toluene	µg/L	1.0 U	1.0 U	1.0 U
Xylenes (total)	µg/L	1.0 U	1.0 U	1.0 U

TF3MW-03	Date:	9/18/96	1/15/97	4/28/97
EPA 8020	Unit			
Benzene	µg/L	1.0 U	1.0 U	1.0 U
Ethylbenzene	µg/L	1.0 U	1.0 U	1.0 U
Methyl tert-butyl ether (MTBE)	µg/L	1.0 U	1.0 UJ	1.0 U
Toluene	µg/L	1.0 U	1.0 U	1.0 U
Xylenes (total)	µg/L	1.0 U	1.0 U	1.0 U

TF2MW-04	Date:	6/14/96	8/30/96	1/13/97	4/17/97	4/17/97	8/8/97	12/8/97
EPA 8020	Unit					(DUP)		
Benzene	µg/L	660	NA	310	NA	NA	NA	NA
Ethylbenzene	µg/L	3.5	NA	1.0 U	NA	NA	NA	NA
Methyl tert-butyl ether (MTBE)	µg/L	1.0 U	NA	1.0 UJ	NA	NA	NA	NA
Toluene	µg/L	0.7 J	NA	1.0 U	NA	NA	NA	NA
Xylenes (total)	µg/L	64	NA	58	NA	NA	NA	NA

TF3MW-01	Date:	11/6/96	1/20/97	4/29/97
EPA 8020	Unit			
Benzene	µg/L	1.0 U	1.0 U	1.0 U
Ethylbenzene	µg/L	1.0 U	1.0 U	1.0 U
Methyl tert-butyl ether (MTBE)	µg/L	1.0 U	1.0 U	1.0 U
Toluene	µg/L	1.0 U	1.0 U	1.0 U
Xylenes (total)	µg/L	1.0 U	1.0 U	1.0 U

TF2MW-03	Date:	8/29/96	12/24/96	1/10/97	4/18/97	8/11/97	12/5/97	3/10/98
EPA 8020	Unit							
Benzene	µg/L	950	380	660	NA	NA	NA	NA
Ethylbenzene	µg/L	1.0 U	2.0 U	1.0 U	NA	NA	NA	NA
Methyl tert-butyl ether (MTBE)	µg/L	NA	2.0 UJ	1.0 U	NA	NA	NA	NA
Toluene	µg/L	1.5	5.0 U	1.0 U	NA	NA	NA	NA
Xylenes (total)	µg/L	158	120	140	NA	NA	NA	NA

20_UGMW36	Date:	10/7/96	12/30/96	5/2/97	3/13/98
EPA 8020	Unit				
Benzene	µg/L	.3 U	.3 U	NA	NA
Ethylbenzene	µg/L	.3 U	.3 U	NA	NA
Methyl tert-butyl ether (MTBE)	µg/L	1 U	1 U	NA	NA
Toluene	µg/L	.3 U	.3 U	NA	NA
Xylenes (total)	µg/L	1 U	1 U	NA	NA

18_BGMW18	Date:	9/10/96	6/30/00	1/5/01
EPA 8020	Unit		EPA 8260	
Benzene	µg/L	5 U	5 U	5 U
Ethylbenzene	µg/L	5 U	5 U	5 U
Methyl tert-butyl ether (MTBE)	µg/L	10 U	10 U	10 U
Toluene	µg/L	5 U	5 U	5 U
Xylenes (total)	µg/L	5 U	5 U	5 U

18_BGMW16	Date:	10/2/96	12/30/96	5/2/97	3/13/98
EPA 8020	Unit				
Benzene	µg/L	.3 U	.3 U	NA	NA
Ethylbenzene	µg/L	.3 U	.3 U	NA	NA
Methyl tert-butyl ether (MTBE)	µg/L	1 U	1 U	NA	NA
Toluene	µg/L	.3 U	.3 U	NA	NA
Xylenes (total)	µg/L	1 U	1 U	NA	NA

13_DGMW78	Date:	9/4/96	1/10/97	4/10/97	12/4/97	3/6/98
EPA 8020	Unit					
Benzene	µg/L	1.0 U	1.0 U	NA	NA	NA
Ethylbenzene	µg/L	1.0 U	1.0 U	NA	NA	NA
Methyl tert-butyl ether (MTBE)	µg/L	NA	1.0 U	NA	NA	NA
Toluene	µg/L	1.0 U	1.0 U	NA	NA	NA
Xylenes (total)	µg/L	1.0 U	1.0 U	NA	NA	NA

TF4MW-01	Date:	9/27/96	12/31/96	12/31/96	5/5/97	12/3/97	3/11/98
EPA 8020	Unit			(DUP)			
Benzene	µg/L	340	120	110	200	17	39.2 J
Ethylbenzene	µg/L	.6 U	.3 U	.3 U	.6	.3 U	.3 U
Methyl tert-butyl ether (MTBE)	µg/L	2 U	1 U	1 U	1 U	NA	1 U
Toluene	µg/L	.6 U	.3 U	.3 U	.3 U	.3 U	.3 U
Xylenes (total)	µg/L	70	20	18	17	1 U	2.6

15_DBMW51	Date:	9/5/96	12/20/96	12/20/96	4/16/97	8/11/97	12/9/97	3/11/98	06/20/00
EPA 8020	Unit			(DUP)					
Benzene	µg/L	1.9 J	18	17	NA	NA	NA	NA	5 U
Ethylbenzene	µg/L	1.0 U	1.0 U	1.0 U	NA	NA	NA	NA	5 U
Methyl tert-butyl ether (MTBE)	µg/L	NA	1.0 UJ	1.0 UJ	NA	NA	NA	NA	10 U
Toluene	µg/L	1.0 U	1.0 U	1.0 U	NA	NA	NA	NA	5 U
Xylenes (total)	µg/L	1.0 U	4.2	4.1	NA	NA	NA	NA	5 U

TF4MW-02	Date:	10/4/96	12/31/96	5/2/97	12/3/97
EPA 8020	Unit				
Benzene	µg/L	.3 U	.3 U	.3 U	NA
Ethylbenzene	µg/L	.3 U	.3 U	.3 U	NA
Methyl tert-butyl ether (MTBE)	µg/L	1 U	1 U	1 U	NA
Toluene	µg/L	.3 U	.3 U	.3 U	NA
Xylenes (total)	µg/L	1 U	1 U	1 U	NA

18_BGMW103	Date:	9/10/96	1/14/97	1/14/97	4/23/97	8/12/97	06/28/00
EPA 8020	Unit			(DUP)			
Benzene	µg/L	1.0 U	1.0 U	1.0 U	NA	NA	5 U
Ethylbenzene	µg/L	1.0 U	1.0 U	1.0 U	NA	NA	5 U
Methyl tert-butyl ether (MTBE)	µg/L	1.0 U	1.0 U	1.0 U	NA	NA	10 U
Toluene	µg/L	1.0 U	1.0 U	1.0 U	NA	NA	5 U
Xylenes (total)	µg/L	1.0 U	1.0 U	1.0 U	NA	NA	5 U

TF4MW-03	Date:	10/3/96	1/6/97	5/6/97	12/4/97
EPA 8020	Unit				
Benzene	µg/L	2.1	3 U	3 U	3 U
Ethylbenzene	µg/L	1.5	3 U	3 U	3 U
Methyl tert-butyl ether (MTBE)	µg/L	1 U	1 U	1 U	NA
Toluene	µg/L	3 U	3 U	3 U	3 U
Xylenes (total)	µg/L	1 U	1 U	1 U	1 U

24_EX2	Date:	9/9/96	1/13/97	4/22/97	8/12/97	06/19/00
EPA 8020	Unit					
Benzene	µg/L	1.0 U	1.0 U	NA	NA	5 U
Ethylbenzene	µg/L	1.0 U	1.0 U	NA	NA	5 U
Methyl tert-butyl ether (MTBE)	µg/L	NA	1.0 UJ	NA	NA	10 U
Toluene	µg/L	1.0 U	1.0 U	NA	NA	5 U
Xylenes (total)	µg/L	1.0 U	1.0 U	NA	NA	5 U

TF1MW-01	Date:	9/10/96	1/14/97	4/28/97	8/12/97
EPA 8020	Unit				
Benzene	µg/L	1.0 U	1.0 U	NA	NA
Ethylbenzene	µg/L	1.0 U	1.0 U	NA	NA
Methyl tert-butyl ether (MTBE)	µg/L	1.0 UJ	1.0 U	NA	NA
Toluene	µg/L	1.0 U	1.0 U	NA	NA
Xylenes (total)	µg/L	1.0 U	1.0 U	NA	NA

TF1MW-02	Date:	9/11/96	1/14/97	4/22/97	8/12/97
EPA 8020	Unit				
Benzene	µg/L	1.0 U	1.0 U	NA	NA
Ethylbenzene	µg/L	1.0 U	1.0 U	NA	NA
Methyl tert-butyl ether (MTBE)	µg/L	1.0 U	1.0 U	NA	NA
Toluene	µg/L	1.0 U	1.0 U	NA	NA
Xylenes (total)	µg/L	1.0 U	1.0 U	NA	NA

14_DBMW50	Date:	9/11/96	1/14/97	4/21/97	8/12/97
EPA 8020	Unit				
Benzene	µg/L	1.0 U	1.0 U	NA	NA
Ethylbenzene	µg/L	1.0 U	1.0 U	NA	NA
Methyl tert-butyl ether (MTBE)	µg/L	NA	1.0 U	NA	NA
Toluene	µg/L	1.0 U	1.0 U	NA	NA
Xylenes (total)	µg/L	1.0 U	1.0 U	NA	NA

18DW135	Date:	9/6/96	1/14/97	4/21/97	8/12/97
EPA 8020	Unit				
Benzene	µg/L	1.0 U	1.0 U	NA	NA
Ethylbenzene	µg/L	1.0 U	1.0 U	NA	NA
Methyl tert-butyl ether (MTBE)	µg/L	NA	1.0 UJ	NA	NA
Toluene	µg/L	1.0 U	1.0 U	NA	NA
Xylenes (total)	µg/L	1.0 U	1.0 U	NA	NA

18_BGMW02E	Date:	9/19/96	1/21/97	5/6/97	12/2/97	3/3/98
EPA 8020	Unit					
Benzene	µg/L	.3 U	3 U	NA	NA	NA
Ethylbenzene	µg/L	.3 U	3 U	NA	NA	NA
Methyl tert-butyl ether (MTBE)	µg/L	1 U	1 U	NA	NA	NA
Toluene	µg/L	3 U	3 U	NA	NA	NA
Xylenes (total)	µg/L	1 U	1 U	NA	NA	NA

TF2MW-02	Date:	6/14/96	8/30/96	12/31/96	1/28/97	1/28/97	4/17/97	12/8/97	3/9/98
EPA 8020	Unit					(DUP)			
Benzene	µg/L	80	NA	1.0 U	6.5	6.4	NA	NA	NA
Ethylbenzene	µg/L	3.4	NA	1.0 U	1.0 U	1.0 U	NA	NA	NA
Methyl tert-butyl ether (MTBE)	µg/L	1.0 U	NA	1.0 U	1.0 U	1.0 U	NA	NA	NA
Toluene	µg/L	1.0 U	NA	1.0 U	1.0 U	1.0 U	NA	NA	NA
Xylenes (total)	µg/L	23	NA	23	26	26	NA	NA	NA

13_DBMW49	Date:	9/4/96	12/27/96	4/10/97	8/8/97	12/8/97
EPA 8020	Unit					
Benzene	µg/L	0.7 J	0.9 J	NA	NA	NA
Ethylbenzene	µg/L	1.0 U	1.0 U	NA	NA	NA
Methyl tert-butyl ether (MTBE)	µg/L	NA	NA	NA	NA	NA
Toluene	µg/L	1.0 U	1.0 U	NA	NA	NA
Xylenes (total)	µg/L	1.0 U	1.0 U	NA	NA	NA

T390MW-03	Date:	9/19/96	1/21/97	5/6/97	12/2/97	3/3/98
EPA 8020	Unit					
Benzene	µg/L	.3 U	.3 U	.3 U	.3 UJ	.3 U
Ethylbenzene	µg/L	.3 U	.3 U	.3 U	.3 UJ	.3 U
Methyl tert-butyl ether (MTBE)	µg/L	1 U	1 U	1 U	NA	1 U
Toluene	µg/L	.3 U	.3 U	.3 U	.3 UJ	.3 U
Xylenes (total)	µg/L	1 U	1 U	1 U	1 U	1 U

T390MW-02	Date:	9/19/96	1/21/97	5/6/97	8/14/97	12/2/97	3/2/98
EPA 8020	Unit						
Benzene	µg/L	.3 U	.3 U	.3 U	.3 U	NA	NA
Ethylbenzene	µg/L	.3 U	.3 U	.3 U	.3 U	NA	NA
Methyl tert-butyl ether (MTBE)	µg/L	1 U	1 U	1 U	NA	NA	NA
Toluene	µg/L	.3 U	.3 U	.3 U	.3 U	NA	NA
Xylenes (total)	µg/L	1 U	1 U	1 U	1 U	NA	NA

TF2MW-01	Date:	6/14/96	8/29/96	9/4/96	12/23/96	1/17/97	4/18/97	8/8/97	12/5/97	3/10/98	12/8/00
EPA 8020	Unit										EPA8260A
Benzene	µg/L	1300	NA	NA	1400	NA	NA	NA	NA	NA	41
Ethylbenzene	µg/L	3.1	NA	NA	2.0 U	NA	NA	NA	NA	NA	5 U
Methyl tert-butyl ether (MTBE)	µg/L	1.0 U	NA	NA	2.0 U	NA	NA	NA	NA	NA	10 U
Toluene	µg/L	1.0 U	NA	NA	1.0 J	NA	NA	NA	NA	NA	5 U
Xylenes (total)	µg/L	96	NA	NA	127	NA	NA	NA	NA	NA	5 U

13_UGMW32	Date:	9/3/96	9/3/96	12/27/96	4/16/97	12/4/97	12/4/97	3/6/98	3/6/98
EPA 8020	Unit		(DUP)				(DUP)		(DUP)
Benzene	µg/L	2.5	2.6	1.0 U	NA	NA	NA	NA	NA
Ethylbenzene	µg/L	1.0 U	1.0 U	1.0 U	NA	NA	NA	NA	NA
Methyl tert-butyl ether (MTBE)	µg/L	NA	NA	NA	NA	NA	NA	NA	NA
Toluene	µg/L	1.0 U	1.0 U	1.0 U	NA	NA	NA	NA	NA
Xylenes (total)	µg/L	1.0 U	0.8 J	1.0 U	NA	NA	NA	NA	NA

NOTE:
BTEX COMPOUNDS FOR TANK FARMS 1 AND 2 WERE ANALYZED BY EPA METHOD 8260 AND DETECTED COMPOUNDS ARE SHOWN ON FIGURE 9.

SOURCE: JACOBS ENGINEERING
BECHTEL DRAWING NO. 073H1214
OHM DRAWING NO. 18609043

REVISIONS

REV. No.	DESCRIPTION	DATE	APPROVED
0	GENERAL REVISION	9/25/99	

PROJECT: SWDIV

OHM Remediation Services Corp.
A Subsidiary of OHM Corporation
SAN DIEGO, CA

DRAWN BY: M.YANEZ — DATE: 3/29/01
CHECKED BY — DATE: 3/30/01
APPROVED BY — DATE:
PROJECT MANAGER — DATE:
AUTOCAD FILE No.: 18292103.DWG

BTEX COMPOUNDS IN GROUNDWATER – TANK FARM 1, TANK FARM 2, UST's 390A&B TANK FARM 3 AND TANK FARM 4
MCAS
EL TORO, CALIFORNIA

SCALE	SHEET	OF	DOCUMENT CONTROL No.	OHM PROJECT No.	DRAWING No.
AS NOTED	1	1	SW9631	18292	FIG. 6

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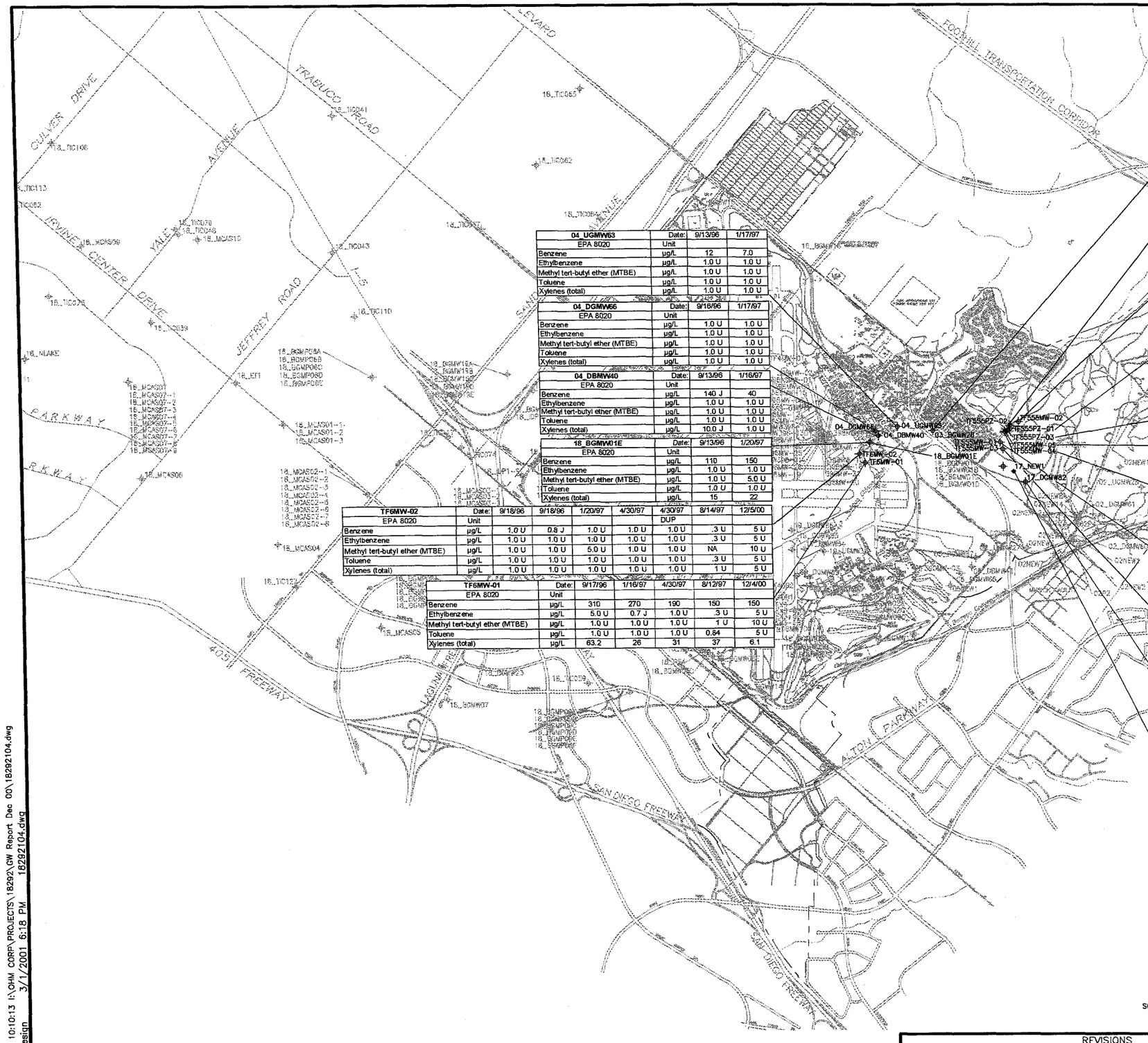
Witzel-Yanez Design 10/28/00 12:01 PM 18292103.dwg



LEGEND

- ROAD
- FREEWAY
- MCAS EL TORO BOUNDARY
- STREAM OR WASH
- 02_DGMW60 MONITORING WELL
- WATER SUPPLY WELL
- PIEZOMETER WELL

04_UGMW03	Date:	9/13/96	1/17/97
EPA 8020	Unit		
Benzene	µg/L	12	7.0
Ethylbenzene	µg/L	1.0 U	1.0 U
Methyl tert-butyl ether (MTBE)	µg/L	1.0 U	1.0 U
Toluene	µg/L	1.0 U	1.0 U
Xylenes (total)	µg/L	1.0 U	1.0 U

04_DGMW66	Date:	9/16/96	1/17/97
EPA 8020	Unit		
Benzene	µg/L	1.0 U	1.0 U
Ethylbenzene	µg/L	1.0 U	1.0 U
Methyl tert-butyl ether (MTBE)	µg/L	1.0 U	1.0 U
Toluene	µg/L	1.0 U	1.0 U
Xylenes (total)	µg/L	1.0 U	1.0 U

04_DBMW40	Date:	9/13/96	1/16/97
EPA 8020	Unit		
Benzene	µg/L	140 J	40
Ethylbenzene	µg/L	1.0 U	1.0 U
Methyl tert-butyl ether (MTBE)	µg/L	1.0 U	1.0 U
Toluene	µg/L	1.0 U	1.0 U
Xylenes (total)	µg/L	10.0 J	1.0 U

18_BGMW01E	Date:	9/13/96	1/20/97
EPA 8020	Unit		
Benzene	µg/L	110	150
Ethylbenzene	µg/L	1.0 U	1.0 U
Methyl tert-butyl ether (MTBE)	µg/L	1.0 U	5.0 U
Toluene	µg/L	1.0 U	1.0 U
Xylenes (total)	µg/L	15	22

TF6MW-02	Date:	9/18/96	9/18/96	1/20/97	4/30/97	4/30/97	8/14/97	12/5/00
EPA 8020	Unit					DUP		
Benzene	µg/L	1.0 U	0.8 J	1.0 U	1.0 U	1.0 U	.3 U	5 U
Ethylbenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	.3 U	5 U
Methyl tert-butyl ether (MTBE)	µg/L	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U	NA	10 U
Toluene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	.3 U	5 U
Xylenes (total)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1 U	5 U

TF6MW-01	Date:	9/17/96	1/16/97	4/30/97	8/12/97	12/4/00
EPA 8020	Unit					
Benzene	µg/L	310	270	190	150	150
Ethylbenzene	µg/L	5.0 U	0.7 J	1.0 U	3 U	5 U
Methyl tert-butyl ether (MTBE)	µg/L	1.0 U	1.0 U	1.0 U	1 U	10 U
Toluene	µg/L	1.0 U	1.0 U	1.0 U	0.84	5 U
Xylenes (total)	µg/L	63.2	26	31	37	6.1

03_BGMW26	Date:	9/23/96	2/7/97	2/7/97
EPA 8020	Unit			(DUP)
Benzene	µg/L	0.3 U	0.3 U	0.3 U
Ethylbenzene	µg/L	0.3 U	0.3 U	0.3 U
Methyl tert-butyl ether (MTBE)	µg/L	1 U	1 U	1 U
Toluene	µg/L	0.3 U	0.3 U	0.3 U
Xylenes (total)	µg/L	1 U	1 U	1 U

TF555PZ-02	Date:	10/24/96	1/22/97	5/12/97	8/15/97	8/15/97
EPA 8020	Unit					(DUP)
Benzene	µg/L	0.3 U	0.3 U	NA	0.3 U	0.3 U
Ethylbenzene	µg/L	0.3 U	0.3 U	NA	0.3 U	0.3 U
Methyl tert-butyl ether (MTBE)	µg/L	1 U	1 U	NA	NA	NA
Toluene	µg/L	0.3 U	0.3 U	NA	0.3 U	0.3 U
Xylenes (total)	µg/L	1 U	1 U	NA	1 U	1 U

TF555MW-02	Date:	9/25/96	1/29/97	5/9/97
EPA 8020	Unit			
Benzene	µg/L	0.3 U	0.3 U	0.3 U
Ethylbenzene	µg/L	0.3 U	0.3 U	0.3 U
Methyl tert-butyl ether (MTBE)	µg/L	1 U	1 U	1 U
Toluene	µg/L	0.3 U	0.3 U	0.3 U
Xylenes (total)	µg/L	1 U	1 U	1 U

TF555PZ-01	Date:	10/24/96	1/22/97	5/12/97	8/15/97
EPA 8020	Unit				
Benzene	µg/L	0.3 U	0.3 U	NA	0.3 U
Ethylbenzene	µg/L	0.3 U	0.3 U	NA	0.3 U
Methyl tert-butyl ether (MTBE)	µg/L	1 U	1 U	NA	NA
Toluene	µg/L	0.3 U	0.3 U	NA	0.3 U
Xylenes (total)	µg/L	1 U	1 U	NA	1 U

TF555PZ-03	Date:	9/27/96
EPA 8020	Unit	
Benzene	µg/L	0.3 U
Ethylbenzene	µg/L	0.3 U
Methyl tert-butyl ether (MTBE)	µg/L	NA
Toluene	µg/L	0.3 U
Xylenes (total)	µg/L	1 U

TF555MW-05	Unit	9/25/96	1/23/97	5/12/97	12/13/00
EPA Method		EPA 8020	EPA 8020	EPA 8020	EPA 8260
Benzene	µg/L	0.3 U	0.3 U	0.3 U	5 U
Ethylbenzene	µg/L	0.3 U	0.3 U	0.3 U	5 U
Methyl tert-butyl ether (MTBE)	µg/L	1 U	1 U	1 U	10 U
Toluene	µg/L	0.3 U	0.3 U	0.3 U	5 U
Xylenes (total)	µg/L	1 U	1 U	1 U	5 U

TF555MW-04	Unit	9/26/96	1/22/97	5/12/97	12/18/97	3/11/98	12/22/98
EPA Method		EPA 8020	EPA 8020	EPA 8020	EPA 8020	EPA 8020	EPA 8260A
Benzene	µg/L	0.3 U	0.3 U	0.3 U	NA	NA	5 U
Ethylbenzene	µg/L	0.3 U	0.3 U	0.3 U	NA	NA	5 U
Methyl tert-butyl ether (MTBE)	µg/L	1 U	1 U	1 U	NA	NA	10 U
Toluene	µg/L	0.3 U	0.3 U	0.3 U	NA	NA	5 U
Xylenes (total)	µg/L	1 U	1 U	1 U	NA	NA	15 U

TF555MW-01	Unit	9/25/96	2/4/97	5/9/97	5/9/97	12/18/97	3/24/98	12/22/98	6/23/99	6/23/99	12/10/99	08/16/00	12/04/00
EPA Method		EPA 8020	EPA 8020	EPA 8020	(DUP)	EPA 8020	EPA 8020	EPA 8260A	EPA 8260A	EPA 8260A	EPA 8260A	EPA 8260A	EPA 8260
Benzene	µg/L	0.3 U	0.3 U	0.3 U	0.3 U	0.72	0.5 U	5 U	0.5 U	0.5 U	0.5 U	5 U	5 U
Ethylbenzene	µg/L	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.5 U	0.5 J	0.5 U	0.5 U	0.5 U	5 U	5 U
Methyl tert-butyl ether (MTBE)	µg/L	1 U	1 U	1 U	1 U	NA	1 U	10 U	5 U	1 U	1 U	10 U	10 U
Toluene	µg/L	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.5 U	5 U	0.5 U	0.5 U	0.5 U	5 U	5 U
Xylenes (total)	µg/L	1 U	1 U	1 U	1 U	1.34	1.5 U	15 U	1.5 U	1.5 U	1.5 U	5 U	5 U

TF555MW-03	Date:	9/24/96	2/4/97	2/4/97	5/8/97	12/18/97	12/18/97
EPA 8020	Unit			(DUP)			(DUP)
Benzene	µg/L	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Ethylbenzene	µg/L	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Methyl tert-butyl ether (MTBE)	µg/L	1 U	1 U	1 UJ	1 U	NA	NA
Toluene	µg/L	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Xylenes (total)	µg/L	1 U	1 U	1 U	1 U	1 U	1 U

17_DGMW02	Date:	9/23/96	1/31/97
EPA 8020	Unit		
Benzene	µg/L	0.3 U	0.3 U
Ethylbenzene	µg/L	0.3 U	0.3 U
Methyl tert-butyl ether (MTBE)	µg/L	1 U	1 U
Toluene	µg/L	0.3 U	0.3 U
Xylenes (total)	µg/L	1 U	1 U

17_NEW01	Date:	9/20/96	1/31/97	5/7/97
EPA 8020	Unit			
Benzene	µg/L	0.3 U	0.3 U	0.3 U
Ethylbenzene	µg/L	0.3 U	0.3 U	0.3 U
Methyl tert-butyl ether (MTBE)	µg/L	1 U	1 U	1 U
Toluene	µg/L	0.3 U	0.3 U	0.3 U
Xylenes (total)	µg/L	1 U	1 U	1 U

GRAPHIC SCALE
0 750 1,500 3,000
(IN FEET)

NOTE:
BTEX COMPOUNDS FOR TANK FARMS 1 AND 2 WERE ANALYZED BY EPA METHOD 8260 AND DETECTED COMPOUNDS ARE SHOWN ON FIGURE 8.

SOURCE: JACOBS ENGINEERING
BECHTEL DRAWING NO. 073H1214
OHM DRAWING NO. 18609043

REVISIONS

REV. No.	DESCRIPTION	DATE	APPROVED
0	GENERAL REVISION	9/29/99	

PROJECT: SWDIV

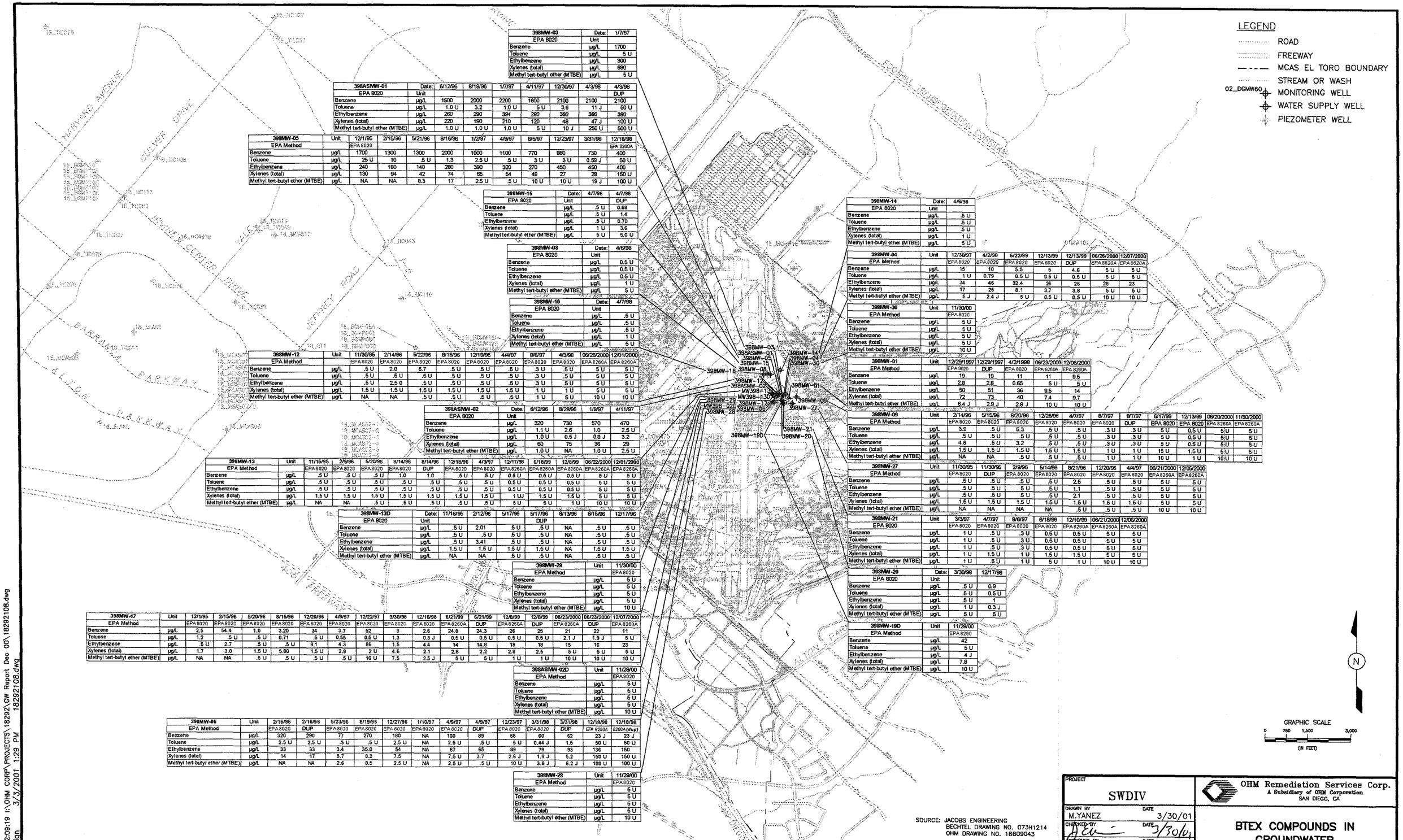
OHM Remediation Services Corp.
A Subsidiary of OHM Corporation
SAN DIEGO, CA

DRAWN BY: M.YANEZ DATE: 3/27/01
CHECKED BY: D. Erickson DATE: 3/27/01
APPROVED BY: DATE:
PROJECT MANAGER: DATE:
AUTOCAD FILE No.: 18292104.DWG

BTEX COMPOUNDS IN GROUNDWATER–TANK FARM 555, TANK FARM 5 & TANK FARM 6
MCAS EL TORO, CALIFORNIA

SCALE	SHEET	OF	DOCUMENT CONTROL No.	OHM PROJECT No.	DRAWING No.
AS NOTED	1	1	SW9631	18292	FIG. 7

Mar 27, 2001 – 10:10:13 I:\OHM CORP\PROJECTS\18292\GW Report Dec 00\18292104.dwg
Vitzel–Yanez Design 3/1/2001 6:18 PM 18292104.dwg



398MW-03	Date:	1/7/97
EPA 8020	Unit	
Benzene	µg/L	1700
Toluene	µg/L	5 U
Ethylbenzene	µg/L	300
Xylenes (total)	µg/L	690
Methyl tert-butyl ether (MTBE)	µg/L	5 U

398ASMW-01	Date:	6/12/96	8/19/96	1/7/97	4/11/97	12/30/97	4/3/98	4/3/98
EPA 8020	Unit							DUP
Benzene	µg/L	1500	2000	2200	1600	2100	2100	2100
Toluene	µg/L	1.0 U	3.2	1.0 U	5 U	3.6	11 J	50 U
Ethylbenzene	µg/L	260	290	394	280	360	380	380
Xylenes (total)	µg/L	220	190	210	120	48	47 J	100 U
Methyl tert-butyl ether (MTBE)	µg/L	1.0 U	1.0 U	1.0 U	5 U	10 J	250 U	500 U

398MW-05	Unit	12/1/95	2/15/96	5/21/96	8/16/96	1/2/97	4/9/97	8/5/97	12/23/97	3/31/98	12/18/98
EPA Method		EPA 8020									EPA 8260A
Benzene	µg/L	1700	1300	1300	2000	1000	1100	770	880	730	400
Toluene	µg/L	25 U	10	.5 U	1.3	2.5 U	.5 U	3 U	3 U	0.59 J	50 U
Ethylbenzene	µg/L	240	180	140	280	390	320	270	450	450	400
Xylenes (total)	µg/L	130	84	42	74	65	54	48	27	28	150 U
Methyl tert-butyl ether (MTBE)	µg/L	NA	NA	8.3	17	2.5 U	.5 U	10 U	10 U	19 J	100 U

398MW-15	Date:	4/7/98	4/7/98
EPA 8020	Unit		DUP
Benzene	µg/L	.5 U	0.68
Toluene	µg/L	.5 U	1.4
Ethylbenzene	µg/L	.5 U	0.70
Xylenes (total)	µg/L	1 U	3.6
Methyl tert-butyl ether (MTBE)	µg/L	5 U	5.0 U

398MW-08	Date:	4/6/98
EPA 8020	Unit	
Benzene	µg/L	0.5 U
Toluene	µg/L	0.5 U
Ethylbenzene	µg/L	0.5 U
Xylenes (total)	µg/L	1 U
Methyl tert-butyl ether (MTBE)	µg/L	5 U

398MW-16	Date:	4/7/98
EPA 8020	Unit	
Benzene	µg/L	.5 U
Toluene	µg/L	.5 U
Ethylbenzene	µg/L	.5 U
Xylenes (total)	µg/L	1 U
Methyl tert-butyl ether (MTBE)	µg/L	5 U

398MW-12	Unit	11/30/95	2/14/96	5/22/96	8/16/96	12/19/96	4/4/97	8/6/97	4/3/98	06/26/2000	12/01/2000
EPA Method		EPA 8020	EPA 8020	EPA 8020	EPA 8020	EPA 8020	EPA 8020	EPA 8020	EPA 8020	EPA 8260A	EPA 8260A
Benzene	µg/L	.5 U	2.0	6.7	.5 U	.5 U	.5 U	.3 U	.5 U	5 U	5 U
Toluene	µg/L	.5 U	.5 U	.5 U	.5 U	.5 U	.5 U	.3 U	.5 U	5 U	5 U
Ethylbenzene	µg/L	.5 U	2.5 0	.5 U	.5 U	.5 U	.5 U	.3 U	.5 U	5 U	5 U
Xylenes (total)	µg/L	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1 U	1 U	5 U	5 U
Methyl tert-butyl ether (MTBE)	µg/L	NA	NA	.5 U	.5 U	.5 U	.5 U	1 U	5 U	10 U	10 U

398ASMW-02	Date:	6/12/96	8/28/96	1/9/97	4/11/97
EPA 8020	Unit				
Benzene	µg/L	320	730	570	470
Toluene	µg/L	1.1 U	2.6	1.0	2.5 U
Ethylbenzene	µg/L	1.0 U	0.5 J	0.8 J	3.2
Xylenes (total)	µg/L	60	75	36	29
Methyl tert-butyl ether (MTBE)	µg/L	1.0 U	NA	1.0 U	2.5 U

398MW-13	Unit	11/15/95	2/9/96	5/20/96	8/14/96	8/14/96	12/18/96	4/3/97	12/17/98	6/18/99	12/8/99	06/22/2000	12/01/2000
EPA Method		EPA 8020	EPA 8020	EPA 8020	EPA 8020	DUP	EPA 8020	EPA 8020	EPA 8260A	EPA 8260A	EPA 8260A	EPA 8260A	EPA 8260A
Benzene	µg/L	.5 U	.5 U	.5 U	1.0	1.0	.5 U	.5 U	0.5 U	0.5 U	0.5 U	5 U	5 U
Toluene	µg/L	.5 U	.5 U	.5 U	.5 U	.5 U	.5 U	.5 U	0.5 U	0.5 U	0.5 U	5 U	5 U
Ethylbenzene	µg/L	.5 U	.5 U	.5 U	.5 U	.5 U	.5 U	.5 U	0.5 U	0.5 U	0.5 U	5 U	5 U
Xylenes (total)	µg/L	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1 UJ	1.5 U	1.5 U	5 U	5 U
Methyl tert-butyl ether (MTBE)	µg/L	NA	NA	.5 U	.5 U	.5 U	.5 U	.5 U	5 U	5 U	1 U	10 U	10 U

398MW-13D	Date:	11/16/96	2/12/96	5/17/96	5/17/96	8/13/96	8/15/96	12/17/96
EPA 8020	Unit				DUP			
Benzene	µg/L	.5 U	2.01	.5 U	.5 U	NA	.5 U	.5 U
Toluene	µg/L	.5 U	.5 U	.5 U	.5 U	NA	.5 U	.5 U
Ethylbenzene	µg/L	.5 U	3.41	.5 U	.5 U	NA	.5 U	.5 U
Xylenes (total)	µg/L	1.5 U	1.5 U	1.5 U	1.5 U	NA	1.5 U	1.5 U
Methyl tert-butyl ether (MTBE)	µg/L	NA	NA	.5 U	.5 U	NA	.5 U	.5 U

398MW-29	Unit	11/30/00
EPA Method		EPA 8020
Benzene	µg/L	5 U
Toluene	µg/L	5 U
Ethylbenzene	µg/L	5 U
Xylenes (total)	µg/L	5 U
Methyl tert-butyl ether (MTBE)	µg/L	10 U

398MW-17	Unit	12/1/95	2/15/96	5/20/96	8/15/96	12/20/96	4/8/97	12/22/97	3/30/98	12/16/98	6/21/99	6/21/99	12/8/99	12/8/99	06/23/2000	06/23/2000	12/07/2000
EPA Method		EPA 8020	EPA 8020	EPA 8020	EPA 8020	EPA 8020	EPA 8020	EPA 8020	EPA 8020	EPA 8020	EPA 8260A	DUP	EPA 8260A	DUP	EPA 8260A	DUP	EPA 8260A
Benzene	µg/L	2.5	54.4	1.0	3.20	34	3.7	52	3	2.6	24.8	24.3	26	26	21	22	11
Toluene	µg/L	1.2	.5 U	.5 U	0.71	.5 U	0.55	0.5 U	1.3	0.3 J	0.5 U	0.5 U	0.5 U	0.5 U	2.1 J	1.9 J	5 U
Ethylbenzene	µg/L	.5 U	2.7	.5 U	.5 U	9.1	4.3	86	1.5	4.4	14	14.8	18	18	15	16	23
Xylenes (total)	µg/L	1.7	3.0	1.5 U	5.80	1.5 U	2.8	2 U	4.6	2.1	2.8	2.2	2.6	2.5	5 U	5 U	5 U
Methyl tert-butyl ether (MTBE)	µg/L	NA	NA	.5 U	.5 U	.5 U	.5 U	10 U	7.5	2.5 J	5 U	5 U	1 U	1 U	10 U	10 U	10 U

398ASMW-02D	Unit	11/29/00
EPA Method		EPA 8020
Benzene	µg/L	5 U
Toluene	µg/L	5 U
Ethylbenzene	µg/L	5 U
Xylenes (total)	µg/L	5 U
Methyl tert-butyl ether (MTBE)	µg/L	10 U

398MW-06	Unit	2/16/96	2/16/96	5/23/96	8/19/96	12/27/96	1/10/97	4/9/97	4/9/97	12/23/97	3/31/98	3/31/98	12/18/98	12/18/98
EPA Method		EPA 8020	DUP	EPA 8020	EPA 8020	EPA 8020	EPA 8020	EPA 8020	DUP	EPA 8020	EPA 8020	DUP	EPA 8260A	8260A(dup)
Benzene	µg/L	320	290	77	270	180	NA	100	89	68	60	62	23 J	23 J
Toluene	µg/L	2.5 U	2.5 U	.5 U	.5 U	2.5 U	NA	2.5 U	.5 U	5 U	0.44 J	1.5	50 U	50 U
Ethylbenzene	µg/L	33	33	3.4	35.0	54	NA	67	65	89	79	93	136	150
Xylenes (total)	µg/L	14	17	5.7	8.2	7.5	NA	7.5 U	3.7	2.6 J	1.9 J	5.2	150 U	150 U
Methyl tert-butyl ether (MTBE)	µg/L	NA	NA	2.6	8.5	2.5 U	NA	2.5 U	.5 U	10 U	3.8 J	6.2 J	100 U	100 U

398MW-28	Unit	11/29/00
EPA Method		EPA 8020
Benzene	µg/L	5 U
Toluene	µg/L	5 U
Ethylbenzene	µg/L	5 U
Xylenes (total)	µg/L	5 U
Methyl tert-butyl ether (MTBE)	µg/L	10 U

398MW-14	Date:	4/6/98
EPA 8020	Unit	
Benzene	µg/L	.5 U
Toluene	µg/L	.5 U
Ethylbenzene	µg/L	.5 U
Xylenes (total)	µg/L	1 U
Methyl tert-butyl ether (MTBE)	µg/L	5 U

398MW-04	Unit	12/30/97	4/2/98	6/22/99	12/13/99	12/13/99	06/26/2000	12/07/2000
EPA Method		EPA 8020	EPA 8020	EPA 8020	EPA 8020	DUP	EPA 8620A	EPA 8620A
Benzene	µg/L	15	10	5.5	5	4.6	5 U	5 U
Toluene	µg/L	1 U	0.79	0.5 U	0.5 U	0.5 U	5 U	5 U
Ethylbenzene	µg/L	34	46	32.4	26	26	28	23
Xylenes (total)	µg/L	17	26	8.1	3.7	3.8	5 U	5 U
Methyl tert-butyl ether (MTBE)	µg/L	5 J	2.4 J	5 U	0.5 U	0.5 U	10 U	10 U

398MW-30	Unit	11/30/00
EPA Method		EPA 8020
Benzene	µg/L	5 U
Toluene	µg/L	5 U
Ethylbenzene	µg/L	5 U
Xylenes (total)	µg/L	5 U
Methyl tert-butyl ether (MTBE)	µg/L	10 U

398MW-01	Unit	12/29/1997	12/29/1997	4/2/1998	06/23/2000	12/06/2000
EPA Method		EPA 8020	DUP	EPA 8020	EPA 8260A	EPA 8260A
Benzene	µg/L	19	19	11	11	9.5
Toluene	µg/L	2.8	2.8	0.65	5 U	5 U
Ethylbenzene	µg/L	50	51	36	9.5	14
Xylenes (total)	µg/L	72	73	40	7.4	9.7
Methyl tert-butyl ether (MTBE)	µg/L	6.4 J	2.9 J	2.8 J	10 U	10 U

398MW-09	Unit	2/14/96	5/15/96	8/20/96	12/26/96	4/7/97	8/7/97	8/7/97	6/17/99	12/13/99	06/20/2000	11/30/2000
EPA Method		EPA 8020	EPA 8020	EPA 8020	EPA 8020	EPA 8020	EPA 8020	DUP	EPA 8020	EPA 8020	EPA 8260A	EPA 8260A
Benzene	µg/L	3.9	.5 U	5.3	.5 U	.5 U	.3 U	.3 U	5 U	0.5 U	5 U	5 U
Toluene	µg/L	.5 U	.5 U	.5 U	.5 U	.5 U	.3 U	.3 U	5 U	0.5 U	5 U	5 U
Ethylbenzene	µg/L	4.6	.5 U	3.2	.5 U	.5 U	.3 U	.3 U	5 U	0.5 U	5 U	5 U
Xylenes (total)	µg/L	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1 U	1 U	15 U	1.5 U	5 U	5 U
Methyl tert-butyl ether (MTBE)	µg/L	NA	NA	.5 U	.5 U	.5 U	1 U	1 U	10 U	1 U	10 U	10 U

398MW-27	Unit	11/30/95	11/30/95	2/9/96	5/14/96	8/21/96	12/20/96	4/4/97	06/21/2000	12/05/2000
EPA Method		EPA 8020	DUP	EPA 8020	EPA 8020	EPA 8020	EPA 8020	EPA 8020	EPA 8260A	EPA 8260A
Benzene	µg/L	.5 U	.5 U	.5 U	.5 U	2.5	.5 U	.5 U	5 U	5 U
Toluene	µg/L	.5 U	.5 U	.5 U	.5 U	1.1	.5 U	.5 U	5 U	5 U
Ethylbenzene	µg/L	.5 U	.5 U	.5 U	.5 U	2.1	.5 U	.5 U	5 U	5 U
Xylenes (total)	µg/L	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	5 U	5 U
Methyl tert-butyl ether (MTBE)	µg/L	NA	NA	NA	NA	.5 U	.5 U	.5 U	10 U	10 U

398MW-21	Unit	3/3/97	4/7/97	8/6/97	8/18/99	12/10/99	06/21/2000	12/06/2000
EPA 8020		EPA 8020	EPA 8020	EPA 8020	EPA 8020	EPA 8260A	EPA 8260A	EPA 8260A
Benzene	µg/L	1 U	.5 U	.3 U	0.5 U	0.5 U	5 U	5 U
Toluene	µg/L	1 U	.5 U	.3 U	0.5 U	0.5 U	5 U	5 U
Ethylbenzene	µg/L	1 U	.5 U	.3 U	0.5 U	0.5 U	5 U	5 U
Xylenes (total)	µg/L	1 U	1.5 U	1 U	1.5 U	1.5 U	5 U	5 U
Methyl tert-butyl ether (MTBE)	µg/L	1 U	.5 U	1 U	5 U	1 U	10 U	10 U

398MW-20	Date:	3/30/98	12/17/98
EPA 8020	Unit		
Benzene	µg/L	.5 U	0.9
Toluene	µg/L	.5 U	0.5 U
Ethylbenzene	µg/L	.5 U	1
Xylenes (total)	µg/L	1 U	0.3 J
Methyl tert-butyl ether (MTBE)	µg/L	5 U	5 U

398MW-19D	Unit	11/28/00
EPA Method		EPA 8260
Benzene	µg/L	42
Toluene	µg/L	5 U
Ethylbenzene	µg/L	4 J
Xylenes (total)	µg/L	7.8
Methyl tert-butyl ether (MTBE)	µg/L	10 U

SOURCE: JACOBS ENGINEERING
BECHTEL DRAWING NO. 073H1214
OHM DRAWING NO. 18609043

REVISIONS

REV. No.	DESCRIPTION	DATE	APPROVED
0	GENERAL REVISION	9/29/99	

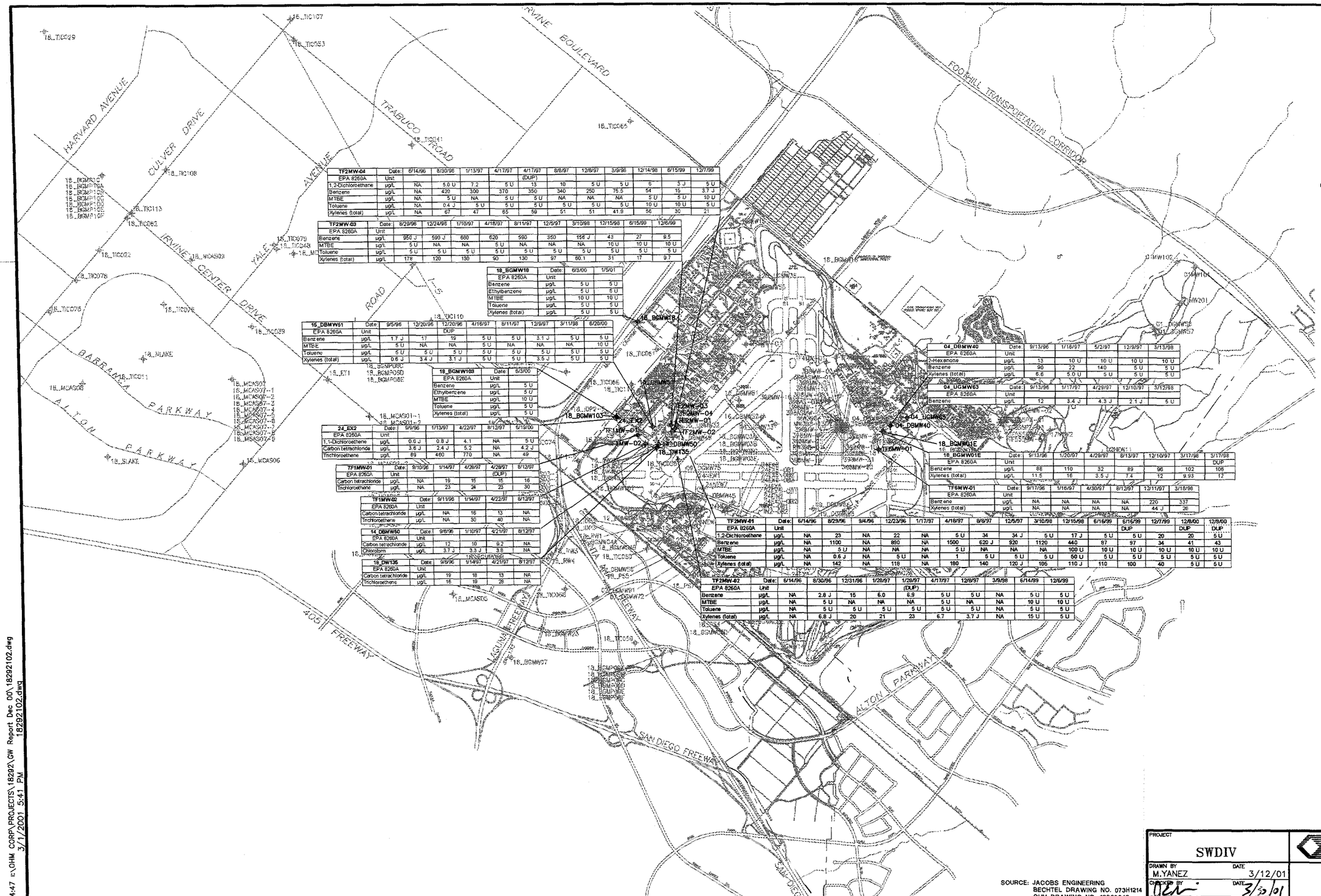
PROJECT	SWDIV
DRAWN BY	M.YANEZ
DATE	3/30/01
CHECKED BY	
DATE	3/30/01
APPROVED BY	
DATE	
PROJECT MANAGER	
DATE	
AUTOCAD FILE No.	18292108.DWG

OHM Remediation Services Corp.
A Subsidiary of OHM Corporation
SAN DIEGO, CA

BTEX COMPOUNDS IN GROUNDWATER TANK 398 MCAS EL TORO, CALIFORNIA

SCALE	SHEET	OF	DOCUMENT CONTROL No.	OHM PROJECT No.	DRAWING No.
AS NOTED	1	1	SW9631	18292	FIG. 8

Mar 30, 2001 – 12:09:19 I:\OHM CORP\PROJECTS\18292\GW Report Dec 00\18292108.dwg
Witzel-Yanez Design 3/3/2001 1:29 PM 18292108.dwg



LEGEND

- ROAD
- FREEWAY
- MCAS EL TORO BOUNDARY
- STREAM OR WASH
- 02_DGMW60 MONITORING WELL
- WATER SUPPLY WELL
- PIEZOMETER WELL

TF2MW-04	Date:	6/14/96	8/30/96	1/13/97	4/17/97	4/17/97 (DUP)	8/8/97	12/8/97	3/9/98	12/14/98	6/15/99	12/7/99
EPA 8260A	Unit											
1,2-Dichloroethane	µg/L	NA	5.0 U	7.2	5 U	13	10	5 U	5 U	6	3 J	5 U
Benzene	µg/L	NA	420	300	370	350	340	250	75.5	54	15	3.7 J
MTBE	µg/L	NA	5 U	NA	5 U	5 U	NA	NA	NA	5 U	5 U	10 U
Toluene	µg/L	NA	0.4 J	5 U	5 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U
Xylenes (total)	µg/L	NA	67	47	65	59	51	51	41.9	56	30	21

TF2MW-03	Date:	8/29/96	12/24/96	1/10/97	4/18/97	8/11/97	12/5/97	3/10/98	12/15/98	6/15/99	12/6/99
EPA 8260A	Unit										
Benzene	µg/L	950 J	590 J	680	620	590	350	156 J	43	27	9.5
MTBE	µg/L	5 U	NA	NA	5 U	NA	NA	NA	10 U	10 U	10 U
Toluene	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Xylenes (total)	µg/L	178	120	130	90	130	97	60.1	31	17	9.7

18_BGMW16	Date:	6/3/00	1/5/01
EPA 8260A	Unit		
Benzene	µg/L	5 U	5 U
Ethylbenzene	µg/L	5 U	5 U
MTBE	µg/L	10 U	10 U
Toluene	µg/L	5 U	5 U
Xylenes (total)	µg/L	5 U	5 U

15_DBMW51	Date:	9/5/96	12/20/96	12/20/96 DUP	4/16/97	8/11/97	12/9/97	3/11/98	6/20/00
EPA 8260A	Unit								
Benzene	µg/L	1.7 J	17	19	5 U	5 U	3.1 J	5 U	5 U
MTBE	µg/L	5 U	NA	NA	5 U	NA	NA	NA	10 U
Toluene	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Xylenes (total)	µg/L	0.6 J	3.4 J	3.1 J	5 U	5 U	3.5 J	5 U	5 U

18_BGMP08C
18_BGMP09D
18_BGMP08E

18_BGMW101	Date:	6/3/00
EPA 8260A	Unit	
Benzene	µg/L	5 U
Ethylbenzene	µg/L	5 U
MTBE	µg/L	10 U
Toluene	µg/L	5 U
Xylenes (total)	µg/L	5 U

24_EX2	Date:	9/9/96	1/13/97	4/22/97	8/12/97	6/19/00
EPA 8260A	Unit					
1,1-Dichloroethene	µg/L	0.6 J	0.8 J	4.1	NA	5 U
Carbon tetrachloride	µg/L	3.6 J	2.4 J	5.2	NA	4.2 J
Trichloroethene	µg/L	89	460	770	NA	49

TF1MW-01	Date:	9/10/96	1/14/97	4/28/97	4/28/97 (DUP)	8/12/97
EPA 8260A	Unit					
Carbon tetrachloride	µg/L	NA	19	15	15	16
Trichloroethene	µg/L	NA	23	24	23	30

TF1MW-02	Date:	9/11/96	1/14/97	4/22/97	8/12/97
EPA 8260A	Unit				
Carbon tetrachloride	µg/L	NA	16	13	NA
Trichloroethene	µg/L	NA	30	40	NA

14_DBMW50	Date:	9/6/96	1/10/97	4/21/97	8/12/97
EPA 8260A	Unit				
Carbon tetrachloride	µg/L	12	10	9.2	NA
Chloroform	µg/L	3.7 J	3.3 J	3.8	NA

18_DW135	Date:	9/6/96	1/14/97	4/21/97	8/12/97
EPA 8260A	Unit				
Carbon tetrachloride	µg/L	19	18	13	NA
Trichloroethene	µg/L	16	19	26	NA

04_DBMW40	Date:	9/13/96	1/16/97	5/2/97	12/9/97	3/13/98
EPA 8260A	Unit					
2-Hexanone	µg/L	13	10 U	10 U	10 U	10 U
Benzene	µg/L	90	22	140	5 U	5 U
Xylenes (total)	µg/L	6.6	5.0 U	5 U	5 U	5 U

04_UGMW03	Date:	9/13/96	1/17/97	4/29/97	12/10/97	3/12/98
EPA 8260A	Unit					
Benzene	µg/L	12	3.4 J	4.3 J	2.1 J	5 U

18_BGMW01E	Date:	9/13/96	1/20/97	4/29/97	8/13/97	12/10/97	3/17/98	3/17/98 DUP
EPA 8260A	Unit							
Benzene	µg/L	88	110	32	89	96	102	108
Xylenes (total)	µg/L	11.5	16	3.5 J	7.4	12	9.93	12

TF6MW-01	Date:	9/11/96	1/15/97	4/30/97	8/12/97	12/11/97	3/18/98
EPA 8260A	Unit						
Benzene	µg/L	NA	NA	NA	NA	220	337
Xylenes (total)	µg/L	NA	NA	NA	NA	44 J	26

TF2MW-01	Date:	6/14/96	8/29/96	9/4/96	12/23/96	1/17/97	4/18/97	8/8/97	12/5/97	3/10/98	12/15/98	6/16/99	6/16/99 DUP	12/7/99	12/8/00 DUP	12/8/00 DUP
EPA 8260A	Unit															
1,2-Dichloroethane	µg/L	NA	23	NA	22	NA	5 U	34	34 J	5 U	17 J	5 U	5 U	20	20	5 U
Benzene	µg/L	NA	1100	NA	890	NA	1500	620 J	920	1120	440	87	97	34	41	43
MTBE	µg/L	NA	5 U	NA	NA	NA	5 U	NA	NA	NA	100 U	10 U	10 U	10 U	10 U	10 U
Toluene	µg/L	NA	0.6 J	NA	5 U	NA	1	5 U	5 U	5 U	50 U	5 U	5 U	5 U	5 U	5 U
Xylenes (total)	µg/L	NA	142	NA	118	NA	180	140	120 J	105	110 J	110	100	40	5 U	5 U

TF2MW-02	Date:	6/14/96	8/30/96	12/31/96	1/28/97	1/28/97 (DUP)	4/17/97	12/8/97	3/9/98	6/14/99	12/6/99
EPA 8260A	Unit										
Benzene	µg/L	NA	2.8 J	15	6.0	6.9	5 U	5 U	NA	5 U	5 U
MTBE	µg/L	NA	5 U	NA	NA	NA	5 U	NA	NA	10 U	10 U
Toluene	µg/L	NA	5 U	5 U	5 U	5 U	5 U	5 U	NA	5 U	5 U
Xylenes (total)	µg/L	NA	6.8 J	20	21	23	6.7	3.7 J	NA	15 U	5 U

SOURCE: JACOBS ENGINEERING
BECHTEL DRAWING NO. 073H1214
OHM DRAWING NO. 18609043

GRAPHIC SCALE
0 750 1,500 3,000
(IN FEET)

REVISIONS			
REV. No.	DESCRIPTION	DATE	APPROVED
0	GENERAL REVISION	9/29/99	

PROJECT: SWDIV

OHM Remediation Services Corp.
A Subsidiary of OHM Corporation
SAN DIEGO, CA

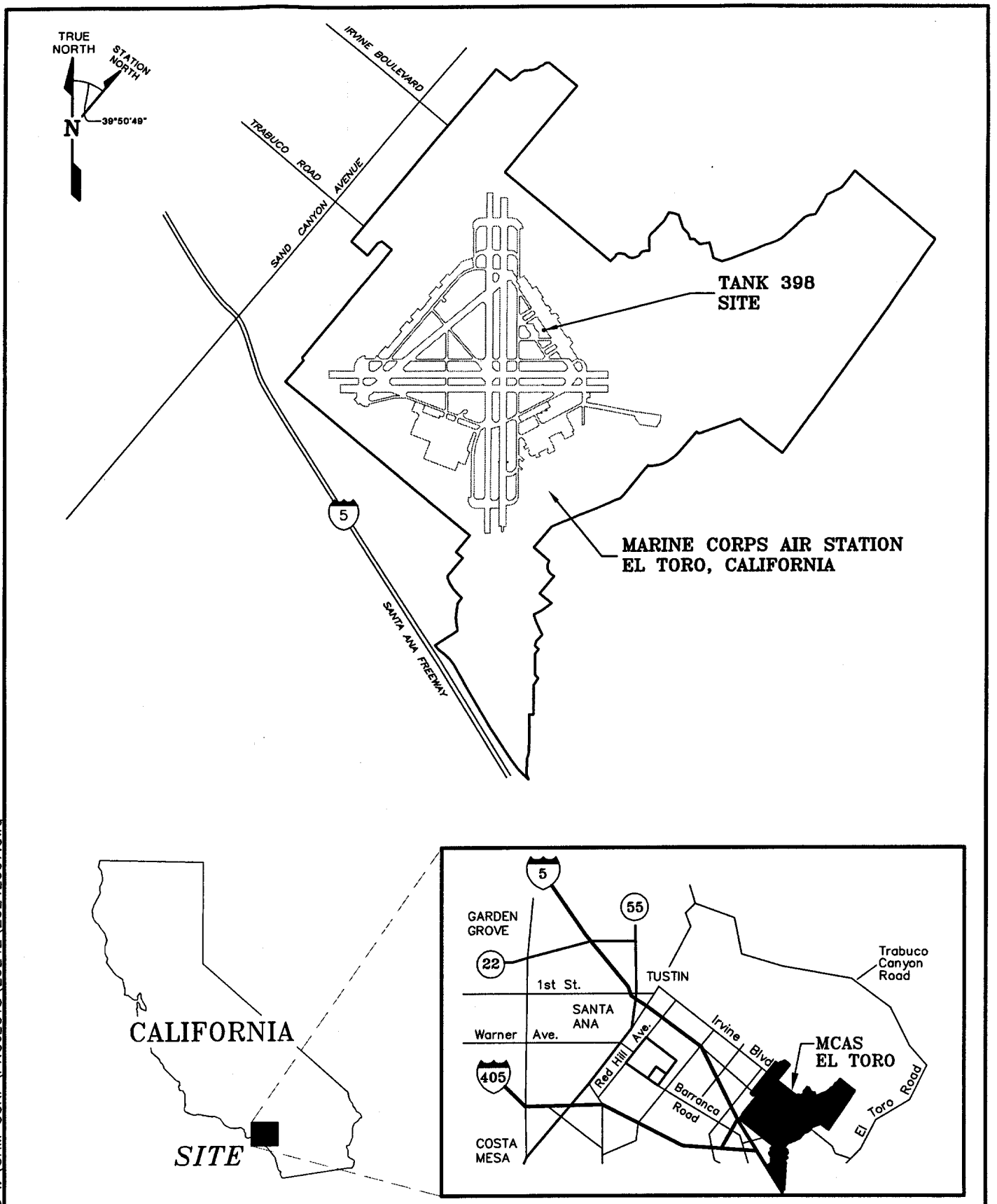
DRAWN BY: M.YANEZ DATE: 3/12/01
CHECKED BY: DATE: 3/13/01
APPROVED BY: DATE:
PROJECT MANAGER: DATE:
AUTOCAD FILE No.: 18292102.DWG

VOC's IN GROUNDWATER

MCAS
EL TORO, CALIFORNIA

SCALE	SHEET	OF	DOCUMENT CONTROL No.	OHM PROJECT No.	DRAWING No.
AS NOTED	1	1	SW9631	18292	FIG. 9

Mar 12, 2001 – 17:14:47 t:\OHM CORP\PROJECTS\18292\GW Report Dec 00\18292102.dwg
Witzel-Yanez Design 3/1/2001 5:41 PM 18292102.dwg



OHM Remediation Services Corp. A Subsidiary of OHM Corporation SAN DIEGO, CA	DRAWN BY R. PIRMORADIAN	DATE 3/8/01	VICINITY MAP TANK 398 SITE		
	CHECKED BY	DATE 3/30/01			
	APPROVED BY	DATE			
CONTRACT NAME SWDIV	PROJECT MANAGER	DATE	MARINE CORPS AIR STATION EL TORO, CALIFORNIA		

AUTOCAD FILE No.	PLOT SCALE	SHEET	OF	SCALE	DOCUMENT CONTROL No.	OHM PROJECT No.	FIGURE No.	REVISION
20242007.DWG	1=1	1	1	NONE	SW5057	20242	FIG 10	0

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Tables

Table 1
Groundwater Levels Measurements Collected during December 2000
Former Petroleum Storage Facilities, Marine Corps Air Station, El Toro

Well Identifier	Well Screen Location (feet below ground surface)	Date of Measurement	Depth to Water (feet below ground surface)
MW398-1	198-229	22 June 2000	189.17
MW398-1	198-229	6 December 2000	189.60
MW398-4	201-231	7 December 2000	191.00
MW398-4	201-231	26 June 2000	190.60
MW398-4	201-231	12 December 1999	190.95
MW398-4	201-231	30 July 1996	200.48
MW398-9	190-240	30 November 2000	188.40
MW398-9	190-240	20 June 2000	192.90
MW398-9	190-240	12 December 1999	193.20
MW398-12	190-240	1 December 2000	189.00
MW398-12	190-240	26 June 2000	188.71
MW398-13	193-243	1 December 2000	166.70
MW398-13	193-243	22 June 2000	186.20
MW398-13	193-243	7 December 1999	186.51
MW398-17	189-239	7 December 2000	186.00
MW398-17	189-239	23 June 2000	185.80
MW398-17	189-239	7 December 1999	185.35
MW398-17	189-239	1 July 1996	195.19
MW398-19D	178-208	28 November 2000	185.30
MW398-21	193-243	6 December 2000	186.10
MW398-21	193-243	21 June 2000	185.60
MW398-21	193-243	9 December 1999	185.68
MW398-21	193-243	1 July 1996	195.26
MW398-27	201.5-251.5	5 December 2000	189.10
MW398-27	201.5-251.5	21 June 2000	188.70
MW398-28	175-205	29 November 2000	182.10
MW398-29	177-207	29 November 2000	185.50
MW398-30	183-203	30 November 2000	191.00
ASTM398-2D	178-208	28 November 2000	186.30

Table 1
Groundwater Levels Measurements Collected during December 2000
Former Petroleum Storage Facilities, Marine Corps Air Station, El Toro

Well Identifier	Well Screen Location (feet below ground surface)	Date of Measurement	Depth to Water (feet below ground surface)
TF2MW1	120-160	7 December 2000	125.50
TF2MW1	120-160	6 December 1999	125.71
TF2MW1	120-160	19 May 1997	131.42
TF2MW1	120-160	14 May 1996	131.78
TF2MW2	115-155	5 December 1999	121.01
TF2MW2	115-155	19 May 1997	126.46
TF2MW2	115-155	16 May 1996	127.75
TF2MW3	120-160	5 December 1999	122.27
TF2MW3	120-160	19 May 1997	128.22
TF2MW3	120-160	20 May 1996	128.20
TF2MW4	120-160	6 December 1999	122.90
TF2MW4	120-160	19 May 1997	128.64
TF2MW4	120-160	24 May 1996	129.15
TF6MW1	184.5-224.5	4 December 2000	181.80
TF6MW2	190-230	4 December 2000	186.40
24EX2	109.5-211.5	19 June 2000	99.93
TF555MW1	179-219	13 December 2000	171.22
TF555MW1	179-219	16 June 2000	171.26
TF555MW1	179-219	9 December 1999	172.21
TF555MW1	179-219	14 May 1997	194.96
TF555MW1	179-219	7 August 1996	187.44
TF555MW5	49.5-64.5	13 December 2000	42.18
18BGMW18	140-180	1 January 2001	123.15

Table 2
Summary of Analytical Results — Semi-Annual Groundwater

Sample Identification		18609-3934	18609-3717	18609-3721	18609-3701	18609-3705	18609-3704	18609-3720
Location Code		18-BGMW-18	398-MW-01	398-MW-04	398-MW-09	398-MW-12	398-MW-13	398-MW-17
Date Sampled		01/05/01	12/06/00	12/07/00	11/30/00	12/01/00	12/01/00	12/07/00
	Unit							
CA LUFT 8015M								
C23-C30 (Motor Oil)	mg/L	NA	NA	NA	NA	NA	NA	NA
TPH as Diesel	mg/L	.095 U	.094 U	.095 U	.099 U	.097 U	.099 U	.095 U
TPH as Gasoline	mg/L	.1 U	1.6	.67	.1 U	.1 U	.1 U	.9
TPH as JP-5	mg/L	.48 U	1.0 J	.61	.5 U	.49 U	.5 U	.67 J
EPA 8260								
1,1,1-Trichloroethane	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1,2,2-Tetrachloroethane	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1,2-Trichloroethane	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethane	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethene	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloroethane	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloropropane	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2-Butanone (MEK)	µg/L	50 U	50 U	50 U	50 U	50 U	50 U	50 U
2-Chloroethyl vinyl ether	µg/L	50 U	50 U	50 U	50 U	50 U	50 U	50 U
2-Hexanone	µg/L	50 U	50 U	50 U	50 U	50 U	50 U	50 U
4-Methyl-2-pentanone (MIBK)	µg/L	50 U	50 U	50 U	50 U	50 U	50 U	50 U
Acetone	µg/L	50 UJ	12 J	50 UJ	50 UJ	50 U	50 U	50 UJ
Benzene	µg/L	5 U	9.5	5 U	5 U	5 U	5 U	11
Bromodichloromethane	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Bromoform	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Bromomethane	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Carbon disulfide	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Carbon tetrachloride	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chlorobenzene	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chloroethane	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chloroform	µg/L	5 U	3 J	5 U	5 U	5 U	5 U	5 U
Chloromethane	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U
cis-1,2-Dichloroethene	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U
cis-1,3-Dichloropropene	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Dibromochloromethane	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Ethylbenzene	µg/L	5 U	14	23	5 U	5 U	5 U	23
Methyl tert-butyl ether (MTBE)	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Methylene chloride	µg/L	5 U	4 J	5 U	5 U	5 U	5 U	5 U
Styrene	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Tetrachloroethene (PCE)	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Toluene	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U
trans-1,2-Dichloroethene	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U

Table 2
Summary of Analytical Results — Semi-Annual Groundwater

Sample Identification		18609-3934	18609-3717	18609-3721	18609-3701	18609-3705	18609-3704	18609-3720
Location Code		18-BGMW-18	398-MW-01	398-MW-04	398-MW-09	398-MW-12	398-MW-13	398-MW-17
Date Sampled		01/05/01	12/06/00	12/07/00	11/30/00	12/01/00	12/01/00	12/07/00
	Unit							
trans-1,3-Dichloropropene	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Trichloroethene (TCE)	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Vinyl acetate	µg/L	50 U	50 U	50 U	50 U	50 U	50 U	50 U
Vinyl chloride	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Xylenes (total)	µg/L	5 U	9.7	5 U	5 U	5 U	5 U	5 U
EPA 6010								
Aluminum	µg/L	NA	NA	NA	NA	NA	NA	NA
Antimony	µg/L	NA	NA	NA	NA	NA	NA	NA
Arsenic	µg/L	NA	NA	NA	NA	NA	NA	NA
Barium	µg/L	NA	NA	NA	NA	NA	NA	NA
Beryllium	µg/L	NA	NA	NA	NA	NA	NA	NA
Cadmium	µg/L	NA	NA	NA	NA	NA	NA	NA
Calcium	µg/L	NA	NA	NA	NA	NA	NA	NA
Chromium	µg/L	NA	NA	NA	NA	NA	NA	NA
Cobalt	µg/L	NA	NA	NA	NA	NA	NA	NA
Copper	µg/L	NA	NA	NA	NA	NA	NA	NA
Iron	µg/L	NA	NA	NA	NA	NA	NA	NA
Lead	µg/L	NA	NA	NA	NA	NA	NA	NA
Magnesium	µg/L	NA	NA	NA	NA	NA	NA	NA
Manganese	µg/L	NA	NA	NA	NA	NA	NA	NA
Molybdenum	µg/L	NA	NA	NA	NA	NA	NA	NA
Nickel	µg/L	NA	NA	NA	NA	NA	NA	NA
Potassium	µg/L	NA	NA	NA	NA	NA	NA	NA
Selenium	µg/L	NA	NA	NA	NA	NA	NA	NA
Silver	µg/L	NA	NA	NA	NA	NA	NA	NA
Sodium	µg/L	NA	NA	NA	NA	NA	NA	NA
Thallium	µg/L	NA	NA	NA	NA	NA	NA	NA
Vanadium	µg/L	NA	NA	NA	NA	NA	NA	NA
Zinc	µg/L	NA	NA	NA	NA	NA	NA	NA

Table 2
Summary of Analytical Results — Semi-Annual Groundwater

Sample Identification		18609-3934	18609-3717	18609-3721	18609-3701	18609-3705	18609-3704	18609-3720
Location Code		18-BGMW-18	398-MW-01	398-MW-04	398-MW-09	398-MW-12	398-MW-13	398-MW-17
Date Sampled		01/05/01	12/06/00	12/07/00	11/30/00	12/01/00	12/01/00	12/07/00
	Unit							
EPA 7470A								
Mercury	µg/L	NA	NA	NA	NA	NA	NA	NA
EPA 120.1								
Specific Conductance	MHOS/C	1820	1430	1240	NA	1290	1340	1460
EPA 150.1								
pH	pH units	NA	NA	NA	NA	NA	NA	NA
EPA 160.0								
Total Dissolved Solids (TDS)	mg/L	1290	840	695	955	795	845	760
EPA 300.0								
Nitrate/Nitrite as Nitrogen (NO^2+NO^3)	mg/L	25.6	6.49	5.39	13.9	7.33	8.96	6.44
Orthophosphate as Phosphorus	mg/L	.5 U	.5 U	1.84	.183 J	.5 U	.5 U	.5 U
Sulfate	mg/L	314	153	72.5	143	153	160	29.5
EPA 310.1								
Alkalinity	mg/L	276	395	385	252	316	311	572
EPA 351.0								
Oil and Grease	mg/L	NA	NA	NA	NA	NA	NA	NA
Total Kjeldahl Nitrogen (TKN)	mg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U

Table 2
Summary of Analytical Results — Semi-Annual Groundwater

Sample Identification		18609-3689	18609-3716	18609-3713	18609-3694 (Dup)	18609-3697	18609-3698	18609-3700
Location Code		398-MW-19D	398-MW-21	398-MW-27	398-MW-28	398-MW-28	398-MW-29	398-MW-30
Date Sampled		11/28/00	12/06/00	12/05/00	11/29/00	11/29/00	11/29/00	11/30/00
	Unit							
CA LUFT 8015M								
C23-C30 (Motor Oil)	mg/L	NA	NA	NA	NA	NA	NA	NA
TPH as Diesel	mg/L	.099 U	.094 U	.095 U	.1 U	.1 U	.1 U	.098 U
TPH as Gasoline	mg/L	1.8	.1 U	.1 U	.1 U	.1 U	.1 U	.1 U
TPH as JP-5	mg/L	1.7	.47 U	.48 U	.52 U	.19	.5 U	.49 U
EPA 8260								
1,1,1-Trichloroethane	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1,2,2-Tetrachloroethane	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1,2-Trichloroethane	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethane	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethene	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloroethane	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloropropane	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2-Butanone (MEK)	µg/L	50 U	50 U	50 U	50 U	50 U	50 U	50 U
2-Chloroethyl vinyl ether	µg/L	50 U	50 U	50 U	50 U	50 U	50 U	50 U
2-Hexanone	µg/L	50 U	50 U	50 U	50 U	50 U	50 U	50 U
4-Methyl-2-pentanone (MIBK)	µg/L	50 U	50 U	50 U	50 U	50 U	50 U	50 U
Acetone	µg/L	50 U	50 UJ	50 UJ	50 UJ	50 UJ	50 UJ	50 UJ
Benzene	µg/L	42	5 U	5 U	5 U	5 U	5 U	5 U
Bromodichloromethane	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Bromoform	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Bromomethane	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Carbon disulfide	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Carbon tetrachloride	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chlorobenzene	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chloroethane	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chloroform	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chloromethane	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U
cis-1,2-Dichloroethene	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U
cis-1,3-Dichloropropene	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Dibromochloromethane	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Ethylbenzene	µg/L	4 J	5 U	5 U	5 U	5 U	5 U	5 U
Methyl tert-butyl ether (MTBE)	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Methylene chloride	µg/L	5 U	4.7 J	1.5 J	5 U	5 U	5 U	5 U
Styrene	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Tetrachloroethene (PCE)	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Toluene	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U
trans-1,2-Dichloroethene	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U

Table 2
Summary of Analytical Results — Semi-Annual Groundwater

Sample Identification		18609-3689	18609-3716	18609-3713	18609-3694 (Dup)	18609-3697	18609-3698	18609-3700
Location Code		398-MW-19D	398-MW-21	398-MW-27	398-MW-28	398-MW-28	398-MW-29	398-MW-30
Date Sampled		11/28/00	12/06/00	12/05/00	11/29/00	11/29/00	11/29/00	11/30/00
	Unit							
trans-1,3-Dichloropropene	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Trichloroethene (TCE)	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Vinyl acetate	µg/L	50 U	50 U	50 U	50 U	50 U	50 U	50 U
Vinyl chloride	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Xylenes (total)	µg/L	7.8	5 U	5 U	5 U	5 U	5 U	5 U
EPA 6010								
Aluminum	µg/L	500 U	NA	NA	56.4 U	500 U	60.1 U	500 U
Antimony	µg/L	500 U	NA	NA	500 U	500 U	500 U	500 U
Arsenic	µg/L	9.27 J	NA	NA	3.72 J	10 U	2.93 J	6.01 J
Barium	µg/L	264	NA	NA	66.1 J	66.9 J	79.1 J	83.3 J
Beryllium	µg/L	10 U	NA	NA	10 U	10 U	10 U	10 U
Cadmium	µg/L	10 U	NA	NA	10 U	10 U	10 U	10 U
Calcium	µg/L	62100	NA	NA	78700	81400	62700	89200
Chromium	µg/L	6.24 U	NA	NA	11.2 U	7.62 U	11.5 U	50 U
Cobalt	µg/L	50 U	NA	NA	50 U	50 U	50 U	50 U
Copper	µg/L	50 U	NA	NA	2.99 U	50 U	4.98 U	5.03 J
Iron	µg/L	696	NA	NA	34.6 J	15 J	17.5 J	112 U
Lead	µg/L	10 U	NA	NA	10 U	10 U	10 U	10 U
Magnesium	µg/L	39300	NA	NA	52700	55400	43900	68600
Manganese	µg/L	1020	NA	NA	43.2 U	42.9 U	175 U	625
Molybdenum	µg/L	55.3 J	NA	NA	24.8 J	21.6 J	39.2 J	37.3 J
Nickel	µg/L	16.6 J	NA	NA	15.5 J	9.79 J	150 U	19.6 J
Potassium	µg/L	3940 U	NA	NA	3520 U	3680 U	3510 U	3090 J
Selenium	µg/L	1.83 J	NA	NA	3.04 J	2.06 J	4.72 J	6.57 J
Silver	µg/L	50 U	NA	NA	50 U	50 U	50 U	6.84 U
Sodium	µg/L	270000	NA	NA	81800	82200	78000	113000
Thallium	µg/L	6.77 J	NA	NA	400 U	400 U	400 U	400 U
Vanadium	µg/L	10.2 U	NA	NA	26.4 J	26.1 J	15.6 J	29.5 J
Zinc	µg/L	7.72 J	NA	NA	7.63 J	7.89 J	9.73 J	17.8 J

Table 2
Summary of Analytical Results — Semi-Annual Groundwater

Sample Identification Location Code Date Sampled	Unit	18609-3689 398-MW-19D 11/28/00	18609-3716 398-MW-21 12/06/00	18609-3713 398-MW-27 12/05/00	18609-3694 (Dup) 398-MW-28 11/29/00	18609-3697 398-MW-28 11/29/00	18609-3698 398-MW-29 11/29/00	18609-3700 398-MW-30 11/30/00
EPA 7470A								
Mercury	µg/L	.2 U	NA	NA	.2 U	.2 U	.2 U	.2 UJ
EPA 120.1								
Specific Conductance	MHOS/C	NA	1130	1140	NA	NA	NA	NA
EPA 150.1								
pH	pH units	7.04	NA	NA	7.42	7.29	7.52	7.22
EPA 160.0								
Total Dissolved Solids (TDS)	mg/L	965	730	715	660	385	580	790
EPA 300.0								
Nitrate/Nitrite as Nitrogen (NO^2+NO^3)	mg/L	2.70	11.62	12.2	5.38	5.59	14.6	5.24
Orthophosphate as Phosphorus	mg/L	1 U	.5 U	.5 U	.5 U	.5 U	.5 U	.5 U
Sulfate	mg/L	19.9	173	137	141	138	116	135
EPA 310.1								
Alkalinity	mg/L	576	263	306	343	345	269	407
EPA 351.0								
Oil and Grease	mg/L	NA	NA	NA	NA	1 U	NA	NA
Total Kjeldahl Nitrogen (TKN)	mg/L	1.20	1 U	1 U	1 U	NA	1 U	1 U

Table 2
Summary of Analytical Results — Semi-Annual Groundwater

Sample Identification		18609-3690	18609-3723	18609-3724 (Dup)	18609-3729	18609-3728	18609-3708	18609-3712
Location Code		ASTM-398-02D	TF2-MW-01	TF2-MW-01	TF555-MW-01	TF555-MW-05	TF6-MW-01	TF6-MW-02
Date Sampled		11/28/00	12/08/00	12/08/00	12/14/00	12/13/00	12/04/00	12/05/00
	Unit							
CA LUFT 8015M								
C23-C30 (Motor Oil)	mg/L	NA	.94 U	.94 U	.94 U	.95 U	NA	NA
TPH as Diesel	mg/L	.099 U	.19	.22	.094 U	.095 U	.094 U	.097 U
TPH as Gasoline	mg/L	.38	.31 J	.36 J	.1 U	.1 U	.84	.1 U
TPH as JP-5	mg/L	.39	NA	NA	.47 U	.48 U	.12	.49 U
EPA 8260								
1,1,1-Trichloroethane	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1,2,2-Tetrachloroethane	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1,2-Trichloroethane	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethane	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethene	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloroethane	µg/L	5 U	20	5 U	5 U	5 U	5 U	5 U
1,2-Dichloropropane	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2-Butanone (MEK)	µg/L	50 U	50 U	50 U	50 UJ	50 U	50 U	50 U
2-Chloroethyl vinyl ether	µg/L	50 U	50 U	50 U	50 U	50 U	50 U	50 U
2-Hexanone	µg/L	50 U	50 U	50 U	50 UJ	50 U	50 U	50 U
4-Methyl-2-pentanone (MIBK)	µg/L	50 U	50 U	50 U	50 UJ	50 U	50 U	50 U
Acetone	µg/L	50 U	50 U	50 U	50 UJ	50 U	50 U	19 J
Benzene	µg/L	5 U	41	43	5 U	5 U	150	5 U
Bromodichloromethane	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Bromoform	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Bromomethane	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Carbon disulfide	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Carbon tetrachloride	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chlorobenzene	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chloroethane	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chloroform	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chloromethane	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U
cis-1,2-Dichloroethene	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U
cis-1,3-Dichloropropene	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Dibromochloromethane	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Ethylbenzene	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Methyl tert-butyl ether (MTBE)	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Methylene chloride	µg/L	5 U	5 U	5 U	1.6 J	5 U	3.7 J	5 U
Styrene	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Tetrachloroethene (PCE)	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Toluene	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U
trans-1,2-Dichloroethene	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U

Table 2
Summary of Analytical Results — Semi-Annual Groundwater

Sample Identification		18609-3690	18609-3723	18609-3724 (Dup)	18609-3729	18609-3728	18609-3708	18609-3712
Location Code		ASTM-398-02D	TF2-MW-01	TF2-MW-01	TF555-MW-01	TF555-MW-05	TF6-MW-01	TF6-MW-02
Date Sampled		11/28/00	12/08/00	12/08/00	12/14/00	12/13/00	12/04/00	12/05/00
	Unit							
trans-1,3-Dichloropropene	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Trichloroethene (TCE)	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Vinyl acetate	µg/L	50 U	50 U	50 U	50 UJ	50 U	50 U	50 U
Vinyl chloride	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Xylenes (total)	µg/L	5 U	5 U	5 U	5 U	5 U	6.1	5 U
EPA 6010								
Aluminum	µg/L	500 U	NA	NA	NA	NA	NA	NA
Antimony	µg/L	500 U	NA	NA	NA	NA	NA	NA
Arsenic	µg/L	10 U	NA	NA	NA	NA	NA	NA
Barium	µg/L	204	NA	NA	NA	NA	NA	NA
Beryllium	µg/L	10 U	NA	NA	NA	NA	NA	NA
Cadmium	µg/L	10 U	NA	NA	NA	NA	NA	NA
Calcium	µg/L	99900	NA	NA	NA	NA	NA	NA
Chromium	µg/L	6.05 U	NA	NA	NA	NA	NA	NA
Cobalt	µg/L	50 U	NA	NA	NA	NA	NA	NA
Copper	µg/L	50 U	NA	NA	NA	NA	NA	NA
Iron	µg/L	43.9 J	NA	NA	NA	NA	NA	NA
Lead	µg/L	10 U	NA	NA	NA	NA	NA	NA
Magnesium	µg/L	65700	NA	NA	NA	NA	NA	NA
Manganese	µg/L	857	NA	NA	NA	NA	NA	NA
Molybdenum	µg/L	42.4 J	NA	NA	NA	NA	NA	NA
Nickel	µg/L	24.5 J	NA	NA	NA	NA	NA	NA
Potassium	µg/L	5410 U	NA	NA	NA	NA	NA	NA
Selenium	µg/L	10 U	NA	NA	NA	NA	NA	NA
Silver	µg/L	50 U	NA	NA	NA	NA	NA	NA
Sodium	µg/L	183000	NA	NA	NA	NA	NA	NA
Thallium	µg/L	400 U	NA	NA	NA	NA	NA	NA
Vanadium	µg/L	11.7 U	NA	NA	NA	NA	NA	NA
Zinc	µg/L	9.87 J	NA	NA	NA	NA	NA	NA

Table 2
Summary of Analytical Results — Semi-Annual Groundwater

Sample Identification		18609-3690	18609-3723	18609-3724 (Dup)	18609-3729	18609-3728	18609-3708	18609-3712
Location Code		ASTM-398-02D	TF2-MW-01	TF2-MW-01	TF555-MW-01	TF555-MW-05	TF6-MW-01	TF6-MW-02
Date Sampled		11/28/00	12/08/00	12/08/00	12/14/00	12/13/00	12/04/00	12/05/00
	Unit							
EPA 7470A								
Mercury	µg/L	.2 U	NA	NA	NA	NA	NA	NA
EPA 120.1								
Specific Conductance	MHOS/C	NA	NA	NA	NA	NA	1240	1090
EPA 150.1								
pH	pH units	7.16	NA	NA	NA	NA	NA	NA
EPA 160.0								
Total Dissolved Solids (TDS)	mg/L	890	NA	NA	NA	NA	880	600
EPA 300.0								
Nitrate/Nitrite as Nitrogen (NO^2+NO^3)	mg/L	3.31	NA	NA	NA	NA	7.43	5.09
Orthophosphate as Phosphorus	mg/L	1 U	NA	NA	NA	NA	.5 U	.224 J
Sulfate	mg/L	76.4	NA	NA	NA	NA	90.2	86.7
EPA 310.1								
Alkalinity	mg/L	662	NA	NA	NA	NA	386	304
EPA 351.0								
Oil and Grease	mg/L	NA	NA	NA	NA	NA	NA	NA
Total Kjeldahl Nitrogen (TKN)	mg/L	1.10	NA	NA	NA	NA	1 U	1 U

Table 3
Summary of Analytical QC Results — Semi-Annual Groundwater

Sample Identification Location Code Date Sampled	Unit	18609-3688 Equipment Rinsate 11/28/00	18609-3702 Equipment Rinsate 11/30/00	18609-3710 Equipment Rinsate 12/04/00	18609-3714 Equipment Rinsate 12/05/00	18609-3722 Equipment Rinsate 12/07/00	18609-3725 Equipment Rinsate 12/08/00	18609-3730 Equipment Rinsate 12/14/00
CA LUFT 8015M								
C23-C30 (Motor Oil)	mg/L	NA	NA	NA	NA	NA	.94 U	.94 U
TPH as Diesel	mg/L	.1 U	.097 U	.094 U	.095 U	.094 U	.094 U	.094 U
TPH as Gasoline	mg/L	.1 U	.1 U	.1 U	.1 U	.1 U	.1 U	.1 U
TPH as JP-5	mg/L	.5 U	.49 U	.47 U	.48 U	.47 U	NA	.47 U
EPA 8260								
1,1,1-Trichloroethane	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1,2,2-Tetrachloroethane	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1,2-Trichloroethane	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethane	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethene	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloroethane	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloropropane	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2-Butanone (MEK)	µg/L	50 U	50 U	50 U	50 U	50 U	50 U	50 U
2-Chloroethyl vinyl ether	µg/L	50 U	50 U	50 U	50 U	50 U	50 U	50 U
2-Hexanone	µg/L	50 U	50 U	50 U	50 U	50 U	50 U	50 U
4-Methyl-2-pentanone (MIBK)	µg/L	50 U	50 U	50 U	50 U	50 U	50 U	50 U
Acetone	µg/L	50 U	50 UJ	50 U	11 J	50 UJ	50 U	50 U
Benzene	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 UJ
Bromodichloromethane	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Bromoform	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Bromomethane	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Carbon disulfide	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Carbon tetrachloride	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chlorobenzene	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chloroethane	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chloroform	µg/L	5 U	5 U	5 U	1.5 J	5 U	5 U	5 U
Chloromethane	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U
cis-1,2-Dichloroethene	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U
cis-1,3-Dichloropropene	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Dibromochloromethane	µg/L	5 U	5 U	5 U	1.5 J	5 U	5 U	5 U
Ethylbenzene	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Methyl tert-butyl ether (MTBE)	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Methylene chloride	µg/L	2.6 J	5 U	4.2 J	2.1 J	6.4	5 U	5 U
Styrene	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Tetrachloroethene (PCE)	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Toluene	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U

Table 3
Summary of Analytical QC Results — Semi-Annual Groundwater

Sample Identification Location Code Date Sampled	Unit	18609-3688 Equipment Rinsate 11/28/00	18609-3702 Equipment Rinsate 11/30/00	18609-3710 Equipment Rinsate 12/04/00	18609-3714 Equipment Rinsate 12/05/00	18609-3722 Equipment Rinsate 12/07/00	18609-3725 Equipment Rinsate 12/08/00	18609-3730 Equipment Rinsate 12/14/00
trans-1,2-Dichloroethene	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U
trans-1,3-Dichloropropene	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Trichloroethene (TCE)	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 UJ
Vinyl acetate	µg/L	50 U	50 U	50 U	50 U	50 U	50 U	50 U
Vinyl chloride	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Xylenes (total)	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U
EPA 6010								
Aluminum	µg/L	500 U	500 U	NA	NA	NA	NA	NA
Antimony	µg/L	500 U	500 U	NA	NA	NA	NA	NA
Arsenic	µg/L	10 U	10 U	NA	NA	NA	NA	NA
Barium	µg/L	100 U	3.16 J	NA	NA	NA	NA	NA
Beryllium	µg/L	10 U	10 U	NA	NA	NA	NA	NA
Cadmium	µg/L	10 U	10 U	NA	NA	NA	NA	NA
Calcium	µg/L	328 J	3140 J	NA	NA	NA	NA	NA
Chromium	µg/L	7.99 U	50 U	NA	NA	NA	NA	NA
Cobalt	µg/L	50 U	50 U	NA	NA	NA	NA	NA
Copper	µg/L	50 U	50 U	NA	NA	NA	NA	NA
Iron	µg/L	39.3 J	40.2 U	NA	NA	NA	NA	NA
Lead	µg/L	10 U	10 U	NA	NA	NA	NA	NA
Magnesium	µg/L	105 U	1210 J	NA	NA	NA	NA	NA
Manganese	µg/L	20 U	1.7 U	NA	NA	NA	NA	NA
Molybdenum	µg/L	100 U	100 U	NA	NA	NA	NA	NA
Nickel	µg/L	150 U	150 U	NA	NA	NA	NA	NA
Potassium	µg/L	5000 U	5000 U	NA	NA	NA	NA	NA
Selenium	µg/L	1.99 J	10 U	NA	NA	NA	NA	NA
Silver	µg/L	50 U	50 U	NA	NA	NA	NA	NA
Sodium	µg/L	687 J	3960 J	NA	NA	NA	NA	NA
Thallium	µg/L	400 U	400 U	NA	NA	NA	NA	NA
Vanadium	µg/L	100 U	100 U	NA	NA	NA	NA	NA
Zinc	µg/L	20 U	6.59 J	NA	NA	NA	NA	NA
EPA 7470A								

Table 3
Summary of Analytical QC Results — Semi-Annual Groundwater

Sample Identification **Location Code** **Date Sampled**		18609-3688 Equipment Rinsate 11/28/00	18609-3702 Equipment Rinsate 11/30/00	18609-3710 Equipment Rinsate 12/04/00	18609-3714 Equipment Rinsate 12/05/00	18609-3722 Equipment Rinsate 12/07/00	18609-3725 Equipment Rinsate 12/08/00	18609-3730 Equipment Rinsate 12/14/00
	Unit							
Mercury	µg/L	.2 U	.2 U	NA	NA	NA	NA	NA
EPA 120.1								
Specific Conductance	MHOS/C	NA	NA	32.9	66.4	25.9	NA	NA
EPA 150.1								
pH	pH units	5.83	6.92	NA	NA	NA	NA	NA
EPA 160.0								
Total Dissolved Solids (TDS)	mg/L	10 U	40	75.0	700	20	NA	NA
EPA 300.0								
Nitrate/Nitrite as Nitrogen (NO^2+NO^3)	mg/L	.042 J	1.99	2.53	2.63	3.76	NA	NA
Orthophosphate as Phosphorus	mg/L	.5 U	.5 U	.5 U	.5 U	.299 J	NA	NA
Sulfate	mg/L	.517	7.57	6.4	11	3.89	NA	NA
EPA 310.1								
Alkalinity	mg/L	5 U	7.14	5 U	273	7.08	NA	NA
EPA 351.0								
Total Kjeldahl Nitrogen (TKN)	mg/L	1.11	1 U	1 U	1 U	1 U	NA	NA

Table 3
Summary of Analytical QC Results — Semi-Annual Groundwater

Sample Identification		18609-3687	18609-3696	18609-3699	18609-3703	18609-3707	18609-3711	18609-3715
Location Code		Trip Blank	Trip Blank	Trip Blank	Trip Blank	Trip Blank	Trip Blank	Trip Blank
Date Sampled		11/28/00	11/29/00	11/30/00	12/01/00	12/04/00	12/05/00	12/06/00
	Unit							
CA LUFT 8015M								
C23-C30 (Motor Oil)	mg/L	NA	NA	NA	NA	NA	NA	NA
TPH as Diesel	mg/L	NA	NA	NA	NA	NA	NA	NA
TPH as Gasoline	mg/L	NA	.1 U	.1 U	.1 U	.1 U	.1 U	.1 U
TPH as JP-5	mg/L	NA	NA	NA	NA	NA	NA	NA
EPA 8260								
1,1,1-Trichloroethane	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1,2,2-Tetrachloroethane	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1,2-Trichloroethane	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethane	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethene	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloroethane	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloropropane	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2-Butanone (MEK)	µg/L	50 U	50 U	50 U	50 U	50 U	50 U	50 U
2-Chloroethyl vinyl ether	µg/L	50 U	50 U	50 U	50 U	50 U	50 U	50 U
2-Hexanone	µg/L	50 U	50 U	50 U	50 U	50 U	50 U	50 U
4-Methyl-2-pentanone (MIBK)	µg/L	50 U	50 U	50 U	50 U	50 U	50 U	50 U
Acetone	µg/L	50 U	50 UJ	50 UJ	50 U	10 J	50 UJ	50 UJ
Benzene	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Bromodichloromethane	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Bromoform	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Bromomethane	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Carbon disulfide	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Carbon tetrachloride	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chlorobenzene	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chloroethane	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chloroform	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chloromethane	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U
cis-1,2-Dichloroethene	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U
cis-1,3-Dichloropropene	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Dibromochloromethane	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Ethylbenzene	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Methyl tert-butyl ether (MTBE)	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Methylene chloride	µg/L	5 U	5 U	5 U	2 J	5 U	5 U	5 U
Styrene	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Tetrachloroethene (PCE)	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Toluene	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U

Table 3
Summary of Analytical QC Results — Semi-Annual Groundwater

Sample Identification		18609-3687	18609-3696	18609-3699	18609-3703	18609-3707	18609-3711	18609-3715
Location Code		Trip Blank	Trip Blank	Trip Blank	Trip Blank	Trip Blank	Trip Blank	Trip Blank
Date Sampled		11/28/00	11/29/00	11/30/00	12/01/00	12/04/00	12/05/00	12/06/00
	Unit							
trans-1,2-Dichloroethene	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U
trans-1,3-Dichloropropene	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Trichloroethene (TCE)	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Vinyl acetate	µg/L	50 U	50 U	50 U	50 U	50 U	50 U	50 U
Vinyl chloride	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Xylenes (total)	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U
EPA 6010								
Aluminum	µg/L	NA	NA	NA	NA	NA	NA	NA
Antimony	µg/L	NA	NA	NA	NA	NA	NA	NA
Arsenic	µg/L	NA	NA	NA	NA	NA	NA	NA
Barium	µg/L	NA	NA	NA	NA	NA	NA	NA
Beryllium	µg/L	NA	NA	NA	NA	NA	NA	NA
Cadmium	µg/L	NA	NA	NA	NA	NA	NA	NA
Calcium	µg/L	NA	NA	NA	NA	NA	NA	NA
Chromium	µg/L	NA	NA	NA	NA	NA	NA	NA
Cobalt	µg/L	NA	NA	NA	NA	NA	NA	NA
Copper	µg/L	NA	NA	NA	NA	NA	NA	NA
Iron	µg/L	NA	NA	NA	NA	NA	NA	NA
Lead	µg/L	NA	NA	NA	NA	NA	NA	NA
Magnesium	µg/L	NA	NA	NA	NA	NA	NA	NA
Manganese	µg/L	NA	NA	NA	NA	NA	NA	NA
Molybdenum	µg/L	NA	NA	NA	NA	NA	NA	NA
Nickel	µg/L	NA	NA	NA	NA	NA	NA	NA
Potassium	µg/L	NA	NA	NA	NA	NA	NA	NA
Selenium	µg/L	NA	NA	NA	NA	NA	NA	NA
Silver	µg/L	NA	NA	NA	NA	NA	NA	NA
Sodium	µg/L	NA	NA	NA	NA	NA	NA	NA
Thallium	µg/L	NA	NA	NA	NA	NA	NA	NA
Vanadium	µg/L	NA	NA	NA	NA	NA	NA	NA
Zinc	µg/L	NA	NA	NA	NA	NA	NA	NA
EPA 7470A								

Table 3
Summary of Analytical QC Results — Semi-Annual Groundwater

Sample Identification **Location Code** **Date Sampled**		18609-3687 Trip Blank 11/28/00	18609-3696 Trip Blank 11/29/00	18609-3699 Trip Blank 11/30/00	18609-3703 Trip Blank 12/01/00	18609-3707 Trip Blank 12/04/00	18609-3711 Trip Blank 12/05/00	18609-3715 Trip Blank 12/06/00
	Unit							
Mercury	µg/L	NA	NA	NA	NA	NA	NA	NA
EPA 120.1								
Specific Conductance	MHOS/C	NA	NA	NA	NA	NA	NA	NA
EPA 150.1								
pH	pH units	NA	NA	NA	NA	NA	NA	NA
EPA 160.0								
Total Dissolved Solids (TDS)	mg/L	NA	NA	NA	NA	NA	NA	NA
EPA 300.0								
Nitrate/Nitrite as Nitrogen (NO^2+NO^3)	mg/L	NA	NA	NA	NA	NA	NA	NA
Orthophosphate as Phosphorus	mg/L	NA	NA	NA	NA	NA	NA	NA
Sulfate	mg/L	NA	NA	NA	NA	NA	NA	NA
EPA 310.1								
Alkalinity	mg/L	NA	NA	NA	NA	NA	NA	NA
EPA 351.0								
Total Kjeldahl Nitrogen (TKN)	mg/L	NA	NA	NA	NA	NA	NA	NA

Table 3
Summary of Analytical QC Results — Semi-Annual Groundwater

Sample Identification Location Code Date Sampled	Unit	18609-3719 Trip Blank 12/07/00	18609-3726 Trip Blank 12/08/00	18609-3727 Trip Blank 12/13/00	18609-3731 Trip Blank 12/14/00	18609-3933 Trip Blank 01/05/01
CA LUFT 8015M						
C23-C30 (Motor Oil)	mg/L	NA	NA	NA	NA	NA
TPH as Diesel	mg/L	NA	NA	NA	NA	NA
TPH as Gasoline	mg/L	.1 U	.1 U	.1 U	.1 U	.1 U
TPH as JP-5	mg/L	NA	NA	NA	NA	NA
EPA 8260						
1,1,1-Trichloroethane	µg/L	5 U	5 U	5 U	5 U	5 U
1,1,2,2-Tetrachloroethane	µg/L	5 U	5 U	5 U	5 U	5 U
1,1,2-Trichloroethane	µg/L	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethane	µg/L	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethene	µg/L	5 U	5 U	5 UJ	5 U	5 U
1,2-Dichloroethane	µg/L	5 U	5 U	5 U	5 U	5 U
1,2-Dichloropropane	µg/L	5 U	5 U	5 U	5 U	5 U
2-Butanone (MEK)	µg/L	50 U	50 U	50 UJ	50 UJ	50 U
2-Chloroethyl vinyl ether	µg/L	50 U	50 U	50 U	50 U	50 U
2-Hexanone	µg/L	50 U	50 U	50 UJ	50 UJ	50 U
4-Methyl-2-pentanone (MIBK)	µg/L	50 U	50 U	50 UJ	50 UJ	50 U
Acetone	µg/L	50 UJ	50 U	50 U	50 UJ	50 UJ
Benzene	µg/L	5 U	5 U	5 U	5 U	5 U
Bromodichloromethane	µg/L	5 U	5 U	5 U	5 U	5 U
Bromoform	µg/L	5 U	5 U	5 U	5 U	5 U
Bromomethane	µg/L	5 U	5 U	5 U	5 U	5 U
Carbon disulfide	µg/L	5 U	5 U	5 U	5 U	5 U
Carbon tetrachloride	µg/L	5 U	5 U	5 U	5 U	5 U
Chlorobenzene	µg/L	5 U	5 U	5 U	5 U	5 U
Chloroethane	µg/L	5 U	5 U	5 U	5 U	5 U
Chloroform	µg/L	5 U	5 U	5 U	5 U	5 U
Chloromethane	µg/L	5 U	5 U	5 U	5 U	5 U
cis-1,2-Dichloroethene	µg/L	5 U	5 U	5 U	5 U	5 U
cis-1,3-Dichloropropene	µg/L	5 U	5 U	5 U	5 U	5 U
Dibromochloromethane	µg/L	5 U	5 U	5 U	5 U	5 U
Ethylbenzene	µg/L	5 U	5 U	5 U	5 U	5 U
Methyl tert-butyl ether (MTBE)	µg/L	10 U	10 U	10 U	10 U	10 U
Methylene chloride	µg/L	5 U	5 U	5 U	2.6 J	5 U
Styrene	µg/L	5 U	5 U	5 U	5 U	5 U
Tetrachloroethene (PCE)	µg/L	5 U	5 U	5 U	5 U	5 U
Toluene	µg/L	5 U	5 U	5 U	5 U	5 U

Table 3
Summary of Analytical QC Results — Semi-Annual Groundwater

Sample Identification Location Code Date Sampled	Unit	18609-3719 Trip Blank 12/07/00	18609-3726 Trip Blank 12/08/00	18609-3727 Trip Blank 12/13/00	18609-3731 Trip Blank 12/14/00	18609-3933 Trip Blank 01/05/01
trans-1,2-Dichloroethene	µg/L	5 U	5 U	5 U	5 U	5 U
trans-1,3-Dichloropropene	µg/L	5 U	5 U	5 U	5 U	5 U
Trichloroethene (TCE)	µg/L	5 U	5 U	5 U	5 U	5 U
Vinyl acetate	µg/L	50 U	50 U	50 U	50 UJ	50 U
Vinyl chloride	µg/L	5 U	5 U	5 U	5 U	5 U
Xylenes (total)	µg/L	5 U	5 U	5 U	5 U	5 U
EPA 6010						
Aluminum	µg/L	NA	NA	NA	NA	NA
Antimony	µg/L	NA	NA	NA	NA	NA
Arsenic	µg/L	NA	NA	NA	NA	NA
Barium	µg/L	NA	NA	NA	NA	NA
Beryllium	µg/L	NA	NA	NA	NA	NA
Cadmium	µg/L	NA	NA	NA	NA	NA
Calcium	µg/L	NA	NA	NA	NA	NA
Chromium	µg/L	NA	NA	NA	NA	NA
Cobalt	µg/L	NA	NA	NA	NA	NA
Copper	µg/L	NA	NA	NA	NA	NA
Iron	µg/L	NA	NA	NA	NA	NA
Lead	µg/L	NA	NA	NA	NA	NA
Magnesium	µg/L	NA	NA	NA	NA	NA
Manganese	µg/L	NA	NA	NA	NA	NA
Molybdenum	µg/L	NA	NA	NA	NA	NA
Nickel	µg/L	NA	NA	NA	NA	NA
Potassium	µg/L	NA	NA	NA	NA	NA
Selenium	µg/L	NA	NA	NA	NA	NA
Silver	µg/L	NA	NA	NA	NA	NA
Sodium	µg/L	NA	NA	NA	NA	NA
Thallium	µg/L	NA	NA	NA	NA	NA
Vanadium	µg/L	NA	NA	NA	NA	NA
Zinc	µg/L	NA	NA	NA	NA	NA
EPA 7470A						

Table 3
Summary of Analytical QC Results — Semi-Annual Groundwater

Sample Identification **Location Code** **Date Sampled**		18609-3719 Trip Blank 12/07/00	18609-3726 Trip Blank 12/08/00	18609-3727 Trip Blank 12/13/00	18609-3731 Trip Blank 12/14/00	18609-3933 Trip Blank 01/05/01
	Unit					
Mercury	µg/L	NA	NA	NA	NA	NA
EPA 120.1						
Specific Conductance	MHOS/C	NA	NA	NA	NA	NA
EPA 150.1						
pH	pH units	NA	NA	NA	NA	NA
EPA 160.0						
Total Dissolved Solids (TDS)	mg/L	NA	NA	NA	NA	NA
EPA 300.0						
Nitrate/Nitrite as Nitrogen (NO^2+NO^3)	mg/L	NA	NA	NA	NA	NA
Orthophosphate as Phosphorus	mg/L	NA	NA	NA	NA	NA
Sulfate	mg/L	NA	NA	NA	NA	NA
EPA 310.1						
Alkalinity	mg/L	NA	NA	NA	NA	NA
EPA 351.0						
Total Kjeldahl Nitrogen (TKN)	mg/L	NA	NA	NA	NA	NA

Appendix A
Laboratory Analytical Reports

COMPLETED GW 12-5-00 MG 12/7/00

the IT group

IT Corporation
2790 Mosside Blvd.
Monroeville, PA 15146-2792
(412)372-7701

CHAIN-OF-CUSTODY RECORD

PROJECT DATA MANAGER'S COPY

A 12379

FORM 0019 REV. 9-99

IT'S LAB COORDINATOR: M. Concepion	LAB COORDINATOR'S PHONE: 949 660 7550	LAB COORDINATOR'S FAX: 949 475 5433	LABORATORY SERVICE ID: 00K238	LABORATORY CONTACT: EMAX	MAIL REPORT (COMPANY NAME): IT Group
PROJECT NAME: D.O. 70	PROJECT LOCATION: MCAS El Toro	PROJECT NUMBER: ~~18708~~ 18609	LABORATORY PHONE: 310 618-8889	LABORATORY FAX: 310-618-0818	RECIPIENT NAME: Dwayne Ishida
PROJECT CONTACT: M. Concepion	PROJECT PHONE NUMBER: 949 451-1666	PROJECT FAX: 949 451 1672	LABORATORY ADDRESS: 630 Maple Ave.		ADDRESS: 3347 Michelson Dr. #200
PROJECT ADDRESS: Bldg 311, MCAS El Toro	CITY, STATE AND ZIP CODE: Santa Ana CA 92708	CLIENT: SWDIV	CITY, STATE AND ZIP CODE: Torrance CA 90503		CITY, STATE AND ZIP CODE: Irvine CA 92612
PROJECT MANAGER: Dhanajay Rawal	PROJECT MANAGER'S PHONE: 949-660-7576	PROJECT MANAGER'S FAX: 949-474-8709			

Item	Sample Identifier	Matrix	Date	Time	Preserved	# of Cont.	QC Level	T.A.T.	Analyses: 8260	TPH-Gas	TPH-d	TPH-JPE	Metals	G. Metals, TDS, CO3	NO3, Alk., TKN	PO4	Comments
1	18609-3687	W	11-28-00	0700	4°C	2	3	5 day	X								
2	18609-3688	W	11-28-00	0750	[illegible]	9	↓	↓	X	X	X	X	X	X	X	X	TKN [illegible]
3	18609-3689	W	11-28-00	1040	[illegible] HNO3, HCl	15	↓	↓	X	X	X	X	X	X	X	X	TKN NO3 [illegible]
4	18609-3690	W	11-28-00	1315	4°C, HCl, H2SO4, HNO3	15	↓	↓	X	X	X	X	X	X	X	X	TKN & NO3 w/ H2SO4; [illegible] HNO3
5																	
6																	
7																	
8																	
9																	
10																	

SAMPLES COLLECTED BY: Carl Lind

COURIER AND AIR BILL NUMBER: Courier

COOLER TEMPERATURE UPON RECEIPT:

RELINQUISHED BY	RECEIVED BY	DATE	TIME	SAMPLE'S CONDITION UPON RECEIPT
Carl Lind	[signature]	11-28-01	1525	

Distribution: White - Laboratory (To be returned with Analytical Report); Goldenrod - Project File; Manilla - Project Data Manager

Project Information Section For Project Personnel Only Do Not Submit to Laboratory

Sample Point Location	Sample Type: G	C	F	QC
① Trip Blank	X			X
② Equipment Rinsate	X			X
③ 398-MW-19D	X			
④ ~~398-MW-02D~~ ASTM 398-02D	X			

Comments: due 12/7/00 rec'd 12/8/00

Sample Type: G - Grab, C - Composite, F - Field Sample, QC - Quality Control Sample

AL

6260

5785A

EMAX
LABORATORIES, INC.
630 Maple Ave.
Torrance, CA 90503
Telephone: (310) 618-8889
Fax: (310) 618-0818

Date: 12-18-2000
EMAX Batch No.: 00K238

Attn: Dwayne Ishida

IT Corporation
3347 Michelson Dr. # 200
Irvine CA 92612

Subject: Laboratory Report
Project: MCAS El Toro/18609/D.O. 70

Enclosed is the Laboratory report for samples received on 11/28/00. The data reported include :

Sample ID	Control #	Col Date	Matrix	Analysis
18609-3687	K238-01	11/28/00	WATER	VOLATILE ORGANICS BY GC/MS
18609-3688	K238-02	11/28/00	WATER	VOLATILE ORGANICS BY GC/MS
				TPH GASOLINE
				TPH DIESEL
				MERCURY
				METALS
				PH
				SOLIDS TOTAL DISSOLVED
				SULFATE BY IC
				ALKALINITY
				TKN
				PHOSPHATE-P
				NITRATE-N BY IC
18609-3689	K238-03	11/28/00	WATER	VOLATILE ORGANICS BY GC/MS
				TPH GASOLINE
				TPH DIESEL
				MERCURY
				METALS
				PH

5785B

Sample ID	Control #	Col Date	Matrix	Analysis
				SOLIDS TOTAL DISSOLVED
				SULFATE BY IC
				NITRATE-N BY IC
				ALKALINITY
				TKN
				PHOSPHATE-P
18609-3690	K238-04	11/28/00	WATER	VOLATILE ORGANICS BY GC/MS
				TPH GASOLINE
				TPH DIESEL
				MERCURY
				METALS
				PH
				SOLIDS TOTAL DISSOLVED
				SULFATE BY IC
				NITRATE-N BY IC
				ALKALINITY
				TKN
				PHOSPHATE-P

The results are summarized on the following pages.

Please feel free to call if you have any questions concerning these results.

Sincerely yours,

Kam Y. Pang, Ph.D.
Laboratory Director

EMAX LABORATORIES, INC., 630 Maple Ave., Torrance, CA 90503 TEL: (310) 618-8889 FAX: (310) 618-0818

METHOD M8015
TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

Client	: IT CORPORATION	Date Collected:	11/28/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	11/28/00
Batch No.	: 00K238	Date Extracted:	11/30/00 13:45
Sample ID:	18609-3688	Date Analyzed:	12/01/00 10:10
Lab Samp ID:	K238-02	Dilution Factor:	1
Lab File ID:	TK09109A	Matrix :	WATER
Ext Btch ID:	DSK036W	% Moisture :	NA
Calib. Ref.:	TK09104A	Instrument ID :	GCT050

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
DIESEL	ND	.1	.067
JP5	ND	.5	.13

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
BROMOBENZENE	111	65-135
HEXACOSANE	100	60-145

QC LIMIT : (SOIL) 60-140 55-150
QC LIMIT : (WATER) 65-135 60-145
SURR1 : Bromobenzene
SURR2 : Hexacosane
RL : Reporting Limit

METHOD M8015
TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

Client	: IT CORPORATION	Date Collected:	11/28/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	11/28/00
Batch No.	: 00K238	Date Extracted:	11/30/00 13:45
Sample ID:	18609-3689	Date Analyzed:	12/01/00 10:58
Lab Samp ID:	K238-03	Dilution Factor:	.99
Lab File ID:	TK09110A	Matrix :	WATER
Ext Btch ID:	DSK036W	% Moisture :	NA
Calib. Ref.:	TK09104A	Instrument ID :	GCT050

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
DIESEL	ND	.099	.066
JP5*	1.7	.5	.13

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
BROMOBENZENE	111	65-135
HEXACOSANE	100	60-145

QC LIMIT : (SOIL) 60-140 55-150
QC LIMIT : (WATER) 65-135 60-145
SURR1 : Bromobenzene
SURR2 : Hexacosane
RL : Reporting Limit
* : JP5 like pattern, calculated as JP5

METHOD M8015
TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

Client	: IT CORPORATION	Date Collected:	11/28/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	11/28/00
Batch No.	: 00K238	Date Extracted:	11/30/00 13:45
Sample ID:	18609-3690	Date Analyzed:	12/01/00 11:47
Lab Samp ID:	K238-04	Dilution Factor:	.99
Lab File ID:	TK09111A	Matrix :	WATER
Ext Btch ID:	DSK036W	% Moisture :	NA
Calib. Ref.:	TK09104A	Instrument ID :	GCT050

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
DIESEL	ND	.099	.066
JP5 *	.39	.5	.13

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
BROMOBENZENE	93	65-135
HEXACOSANE	89	60-145

QC LIMIT : (SOIL) 60-140 55-150
QC LIMIT : (WATER) 65-135 60-145
SURR1 : Bromobenzene
SURR2 : Hexacosane
RL : Reporting Limit
* : JP5 like pattern, calculated as JP5

METHOD M8015
TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

Client	: IT CORPORATION	Date Collected:	NA
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	11/30/00
Batch No.	: 00K238	Date Extracted:	11/30/00 13:45
Sample ID	: MBLK1W	Date Analyzed:	12/01/00 07:45
Lab Samp ID	: DSK036WB	Dilution Factor:	1
Lab File ID	: TK09106A	Matrix	: WATER
Ext Btch ID	: DSK036W	% Moisture	: NA
Calib. Ref.	: TK09104A	Instrument ID	: GCT050

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
DIESEL	ND	.1	.067
JP5	ND	.5	.13

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
BROMOBENZENE	109	65-135
HEXACOSANE	102	60-145

QC LIMIT : (SOIL) 60-140 55-150
QC LIMIT : (WATER) 65-135 60-145
SURR1 : Bromobenzene
SURR2 : Hexacosane
RL : Reporting Limit

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
BATCH NO.: 00K238
METHOD: METHOD M8015

MATRIX:	WATER			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK1W				
LAB SAMP ID:	DSK036WB	DSK036WL	DSK036WC		
LAB FILE ID:	TK09106A	TK09107A	TK09108A		
DATE EXTRACTED:	11/30/0013:45	11/30/0013:45	11/30/0013:45	DATE COLLECTED:	NA
DATE ANALYZED:	12/01/0007:45	12/01/0008:33	12/01/0009:21	DATE RECEIVED:	11/30/00
PREP. BATCH:	DSK036W	DSK036W	DSK036W		
CALIB. REF:	TK09104A	TK09104A	TK09104A		

ACCESSION:

PARAMETER	BLNK RSLT (mg/L)	SPIKE AMT (mg/L)	BS RSLT (mg/L)	BS % REC	SPIKE AMT (mg/L)	BSD RSLT (mg/L)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
Diesel	ND	5	4.69	94	5	5.23	105	11	61-143	30

SURROGATE PARAMETER	SPIKE AMT (mg/L)	BS RSLT (mg/L)	BS % REC	SPIKE AMT (mg/L)	BSD RSLT (mg/L)	BSD % REC	QC LIMIT (%)
Bromobenzene	1	1.11	111	1	1.15	115	65-135
Hexacosane	.25	.254	102	.25	.256	103	60-145

METHOD 5030B/M8015
TOTAL PETROLEUM HYDROCARBONS BY PURGE & TRAP

Client : IT CORPORATION
Project : MCAS EL TORO/18609/D.O. 70
Batch No. : 00K238

Matrix : WATER
Instrument ID : GCT039

SAMPLE ID	EMAX SAMPLE ID	RESULTS (mg/L)	SURR (%)	DLF	MOIST	RL (mg/L)	MDL (mg/L)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1W	VAK3239B	ND	85	1	NA	.1	.012	11/30/0020:35	11/30/0020:35	EK13015A	EK13014A	VAK3239	NA	11/30/00
LCS1W	VAK3239L	.552	109	1	NA	.1	.012	11/30/0021:43	11/30/0021:43	EK13017A	EK13014A	VAK3239	NA	11/30/00
18609-3688	K238-02	ND	91	1	NA	.1	.012	11/30/0022:17	11/30/0022:17	EK13018A	EK13014A	VAK3239	11/28/00	11/28/00
18609-3689	K238-03	1.8	124	1	NA	.1	.012	11/30/0022:50	11/30/0022:50	EK13019A	EK13014A	VAK3239	11/28/00	11/28/00
18609-3690	K238-04	.38	106	1	NA	.1	.012	11/30/0023:24	11/30/0023:24	EK13020A	EK13014A	VAK3239	11/28/00	11/28/00

SURR : Bromofluorobenzene (W)65-135 (S)60-140
PRL : Reporting Limit
E : Value exceed the upper level of the initial calibration
D : Value from dilution

EMAX QUALITY CONTROL DATA
LCS ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
BATCH NO.: 00K238
METHOD: METHOD 5030B/M8015

==========

MATRIX:	WATER		% MOISTURE:	NA
DILUTION FACTOR:	1	1		
SAMPLE ID:	MBLK1W			
LAB SAMP ID:	VAK3239B	VAK3239L		
LAB FILE ID:	EK13015A	EK13017A		
DATE EXTRACTED:	11/30/0020:35	11/30/0021:43	DATE COLLECTED:	NA
DATE ANALYZED:	11/30/0020:35	11/30/0021:43	DATE RECEIVED:	11/30/00
PREP. BATCH:	VAK3239	VAK3239		
CALIB. REF:	EK13014A	EK13014A		

ACCESSION:

PARAMETER	BLNK RSLT (mg/L)	SPIKE AMT (mg/L)	BS RSLT (mg/L)	BS % REC	QC LIMIT (%)
Gasoline	ND	.55	.552	100	67-136

==========

SURROGATE PARAMETER	SPIKE AMT (mg/L)	BS RSLT (mg/L)	BS % REC	QC LIMIT (%)
Bromofluorobenzene	.02	.0217	109	65-135

METHOD 5030A/8260A
VOLATILE ORGANICS BY GC/MS

Client	: IT CORPORATION	Date Collected:	11/28/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	11/28/00
Batch No.	: 00K238	Date Extracted:	11/30/00 00:27
Sample ID:	18609-3687	Date Analyzed:	11/30/00 00:27
Lab Samp ID:	K238-01	Dilution Factor:	1
Lab File ID:	RKQ941	Matrix :	WATER
Ext Btch ID:	VOK8405	% Moisture :	NA
Calib. Ref.:	RKQ927	Instrument ID :	T-005

PARAMETERS	RESULTS (ug/L)	PRL (ug/L)	MDL (ug/L)
1,1,1-TRICHLOROETHANE	ND	5	.91
1,1,2,2-TETRACHLOROETHANE	ND	5	1.1
1,1,2-TRICHLOROETHANE	ND	5	.83
1,1-DICHLOROETHANE	ND	5	.65
1,1-DICHLOROETHENE	ND	5	.86
1,2-DICHLOROETHANE	ND	5	.95
1,2-DICHLOROPROPANE	ND	5	.73
2-BUTANONE	ND	50	6.7
2-CHLOROETHYLVINYLETHER	ND	50	1.3
2-HEXANONE	ND	50	5.6
4-METHYL-2-PENTANONE	ND	50	3.6
ACETONE	ND	50	9.6
BENZENE	ND	5	.77
BROMODICHLOROMETHANE	ND	5	.82
BROMOFORM	ND	5	.74
BROMOMETHANE	ND	5	1.9
CARBON DISULFIDE	ND	5	.61
CARBON TETRACHLORIDE	ND	5	.83
CHLOROBENZENE	ND	5	1.1
CHLOROETHANE	ND	5	1.7
CHLOROFORM	ND	5	.67
CHLOROMETHANE	ND	5	.67
CIS-1,2-DICHLOROETHENE	ND	5	.79
CIS-1,3-DICHLOROPROPENE	ND	5	.79
DIBROMOCHLOROMETHANE	ND	5	.71
ETHYLBENZENE	ND	5	1
MTBE	ND	10	.77
METHYLENE CHLORIDE	ND	5	1.4
STYRENE	ND	5	.87
TETRACHLOROETHENE	ND	5	1.1
TOLUENE	ND	5	.99
TRANS-1,2-DICHLOROETHENE	ND	5	.73
TRANS-1,3-DICHLOROPROPENE	ND	5	.82
TRICHLOROETHENE	ND	5	.89
VINYL ACETATE	ND	50	1.4
VINYL CHLORIDE	ND	5	2.5
XYLENES	ND	5	3.1

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	118	62-139
BROMOFLUOROBENZENE	96	75-125
TOLUENE-D8	97	75-125

PRL: Project Reporting Limit
* : Out side of QC Limit
J : An estimated value between PRL and MDL
E : Value exceed the upper level of the initial calibration
B : Found in the associated blank
D : Value from dilution analysis

METHOD 5030A/8260A
VOLATILE ORGANICS BY GC/MS

Client	: IT CORPORATION	Date Collected:	11/28/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	11/28/00
Batch No.	: 00K238	Date Extracted:	11/30/00 01:05
Sample ID:	18609-3688	Date Analyzed:	11/30/00 01:05
Lab Samp ID:	K238-02	Dilution Factor:	1
Lab File ID:	RKQ942	Matrix :	WATER
Ext Btch ID:	VOK8405	% Moisture :	NA
Calib. Ref.:	RKQ927	Instrument ID :	T-005

PARAMETERS	RESULTS (ug/L)	PRL (ug/L)	MDL (ug/L)
1,1,1-TRICHLOROETHANE	ND	5	.91
1,1,2,2-TETRACHLOROETHANE	ND	5	1.1
1,1,2-TRICHLOROETHANE	ND	5	.83
1,1-DICHLOROETHANE	ND	5	.65
1,1-DICHLOROETHENE	ND	5	.86
1,2-DICHLOROETHANE	ND	5	.95
1,2-DICHLOROPROPANE	ND	5	.73
2-BUTANONE	ND	50	6.7
2-CHLOROETHYLVINYLETHER	ND	50	1.3
2-HEXANONE	ND	50	5.6
4-METHYL-2-PENTANONE	ND	50	3.6
ACETONE	ND	50	9.6
BENZENE	ND	5	.77
BROMODICHLOROMETHANE	ND	5	.82
BROMOFORM	ND	5	.74
BROMOMETHANE	ND	5	1.9
CARBON DISULFIDE	ND	5	.61
CARBON TETRACHLORIDE	ND	5	.83
CHLOROBENZENE	ND	5	1.1
CHLOROETHANE	ND	5	1.7
CHLOROFORM	ND	5	.67
CHLOROMETHANE	ND	5	.67
CIS-1,2-DICHLOROETHENE	ND	5	.79
CIS-1,3-DICHLOROPROPENE	ND	5	.79
DIBROMOCHLOROMETHANE	ND	5	.71
ETHYLBENZENE	ND	5	1
MTBE	ND	10	.77
METHYLENE CHLORIDE	2.6J	5	1.4
STYRENE	ND	5	.87
TETRACHLOROETHENE	ND	5	1.1
TOLUENE	ND	5	.99
TRANS-1,2-DICHLOROETHENE	ND	5	.73
TRANS-1,3-DICHLOROPROPENE	ND	5	.82
TRICHLOROETHENE	ND	5	.89
VINYL ACETATE	ND	50	1.4
VINYL CHLORIDE	ND	5	2.5
XYLENES	ND	5	3.1

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	119	62-139
BROMOFLUOROBENZENE	97	75-125
TOLUENE-D8	99	75-125

PRL: Project Reporting Limit
* : Out side of QC Limit
J : An estimated value between PRL and MDL
E : Value exceed the upper level of the initial calibration
B : Found in the associated blank
D : Value from dilution analysis

METHOD 5030A/8260A
VOLATILE ORGANICS BY GC/MS

Client	: IT CORPORATION	Date Collected:	11/28/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	11/28/00
Btch No.	: 00K238	Date Extracted:	11/30/00 01:42
Sample ID:	18609-3689	Date Analyzed:	11/30/00 01:42
Lab Samp ID:	K238-03	Dilution Factor:	1
Lab File ID:	RKQ943	Matrix :	WATER
Ext Btch ID:	VOK8405	% Moisture :	NA
Calib. Ref.:	RKQ927	Instrument ID :	T-005

PARAMETERS	RESULTS (ug/L)	PRL (ug/L)	MDL (ug/L)
1,1,1-TRICHLOROETHANE	ND	5	.91
1,1,2,2-TETRACHLOROETHANE	ND	5	1.1
1,1,2-TRICHLOROETHANE	ND	5	.83
1,1-DICHLOROETHANE	ND	5	.65
1,1-DICHLOROETHENE	ND	5	.86
1,2-DICHLOROETHANE	ND	5	.95
1,2-DICHLOROPROPANE	ND	5	.73
2-BUTANONE	ND	50	6.7
2-CHLOROETHYLVINYLETHER	ND	50	1.3
2-HEXANONE	ND	50	5.6
4-METHYL-2-PENTANONE	ND	50	3.6
ACETONE	ND	50	9.6
BENZENE	42	5	.77
BROMODICHLOROMETHANE	ND	5	.82
BROMOFORM	ND	5	.74
BROMOMETHANE	ND	5	1.9
CARBON DISULFIDE	ND	5	.61
CARBON TETRACHLORIDE	ND	5	.83
CHLOROBENZENE	ND	5	1.1
CHLOROETHANE	ND	5	1.7
CHLOROFORM	ND	5	.67
CHLOROMETHANE	ND	5	.67
CIS-1,2-DICHLOROETHENE	ND	5	.79
CIS-1,3-DICHLOROPROPENE	ND	5	.79
DIBROMOCHLOROMETHANE	ND	5	.71
ETHYLBENZENE	4J	5	1
MTBE	ND	10	.77
METHYLENE CHLORIDE	ND	5	1.4
STYRENE	ND	5	.87
TETRACHLOROETHENE	ND	5	1.1
TOLUENE	ND	5	.99
TRANS-1,2-DICHLOROETHENE	ND	5	.73
TRANS-1,3-DICHLOROPROPENE	ND	5	.82
TRICHLOROETHENE	ND	5	.89
VINYL ACETATE	ND	50	1.4
VINYL CHLORIDE	ND	5	2.5
XYLENES	7.8	5	3.1

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	121	62-139
BROMOFLUOROBENZENE	92	75-125
TOLUENE-D8	99	75-125

PRL: Project Reporting Limit
* : Out side of QC Limit
J : An estimated value between PRL and MDL
E : Value exceed the upper level of the initial calibration
B : Found in the associated blank
D : Value from dilution analysis

METHOD 5030A/8260A
VOLATILE ORGANICS BY GC/MS

Client	: IT CORPORATION	Date Collected:	11/28/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	11/28/00
Batch No.	: 00K238	Date Extracted:	11/30/00 02:20
Sample ID:	18609-3690	Date Analyzed:	11/30/00 02:20
Lab Samp ID:	K238-04	Dilution Factor:	1
Lab File ID:	RKQ944	Matrix :	WATER
Ext Btch ID:	VOK8405	% Moisture :	NA
Calib. Ref.:	RKQ927	Instrument ID :	T-005

PARAMETERS	RESULTS (ug/L)	PRL (ug/L)	MDL (ug/L)
1,1,1-TRICHLOROETHANE	ND	5	.91
1,1,2,2-TETRACHLOROETHANE	ND	5	1.1
1,1,2-TRICHLOROETHANE	ND	5	.83
1,1-DICHLOROETHANE	ND	5	.65
1,1-DICHLOROETHENE	ND	5	.86
1,2-DICHLOROETHANE	ND	5	.95
1,2-DICHLOROPROPANE	ND	5	.73
2-BUTANONE	ND	50	6.7
2-CHLOROETHYLVINYLETHER	ND	50	1.3
2-HEXANONE	ND	50	5.6
4-METHYL-2-PENTANONE	ND	50	3.6
ACETONE	ND	50	9.6
BENZENE	ND	5	.77
BROMODICHLOROMETHANE	ND	5	.82
BROMOFORM	ND	5	.74
BROMOMETHANE	ND	5	1.9
CARBON DISULFIDE	ND	5	.61
CARBON TETRACHLORIDE	ND	5	.83
CHLOROBENZENE	ND	5	1.1
CHLOROETHANE	ND	5	1.7
CHLOROFORM	ND	5	.67
CHLOROMETHANE	ND	5	.67
CIS-1,2-DICHLOROETHENE	ND	5	.79
CIS-1,3-DICHLOROPROPENE	ND	5	.79
DIBROMOCHLOROMETHANE	ND	5	.71
ETHYLBENZENE	ND	5	1
MTBE	ND	10	.77
METHYLENE CHLORIDE	ND	5	1.4
STYRENE	ND	5	.87
TETRACHLOROETHENE	ND	5	1.1
TOLUENE	ND	5	.99
TRANS-1,2-DICHLOROETHENE	ND	5	.73
TRANS-1,3-DICHLOROPROPENE	ND	5	.82
TRICHLOROETHENE	ND	5	.89
VINYL ACETATE	ND	50	1.4
VINYL CHLORIDE	ND	5	2.5
XYLENES	ND	5	3.1

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	119	62-139
BROMOFLUOROBENZENE	90	75-125
TOLUENE-D8	99	75-125

PRL: Project Reporting Limit
* : Out side of QC Limit
J : An estimated value between PRL and MDL
E : Value exceed the upper level of the initial calibration
B : Found in the associated blank
D : Value from dilution analysis

METHOD 5030A/8260A
VOLATILE ORGANICS BY GC/MS

Client	: IT CORPORATION	Date Collected:	NA
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	11/29/00
Batch No.	: 00K238	Date Extracted:	11/29/00 23:50
Sample ID:	MBLK1W	Date Analyzed:	11/29/00 23:50
Lab Samp ID:	VOK8405B	Dilution Factor:	1
Lab File ID:	RKQ940	Matrix :	WATER
Ext Btch ID:	VOK8405	% Moisture :	NA
Calib. Ref.:	RKQ927	Instrument ID :	T-005

PARAMETERS	RESULTS (ug/L)	PRL (ug/L)	MDL (ug/L)
1,1,1-TRICHLOROETHANE	ND	5	.91
1,1,2,2-TETRACHLOROETHANE	ND	5	1.1
1,1,2-TRICHLOROETHANE	ND	5	.83
1,1-DICHLOROETHANE	ND	5	.65
1,1-DICHLOROETHENE	ND	5	.86
1,2-DICHLOROETHANE	ND	5	.95
1,2-DICHLOROPROPANE	ND	5	.73
2-BUTANONE	ND	50	6.7
2-CHLOROETHYLVINYLETHER	ND	50	1.3
2-HEXANONE	ND	50	5.6
4-METHYL-2-PENTANONE	ND	50	3.6
ACETONE	ND	50	9.6
BENZENE	ND	5	.77
BROMODICHLOROMETHANE	ND	5	.82
BROMOFORM	ND	5	.74
BROMOMETHANE	ND	5	1.9
CARBON DISULFIDE	ND	5	.61
CARBON TETRACHLORIDE	ND	5	.83
CHLOROBENZENE	ND	5	1.1
CHLOROETHANE	ND	5	1.7
CHLOROFORM	ND	5	.67
CHLOROMETHANE	ND	5	.67
CIS-1,2-DICHLOROETHENE	ND	5	.79
CIS-1,3-DICHLOROPROPENE	ND	5	.79
DIBROMOCHLOROMETHANE	ND	5	.71
ETHYLBENZENE	ND	5	1
MTBE	ND	10	.77
METHYLENE CHLORIDE	ND	5	1.4
STYRENE	ND	5	.87
TETRACHLOROETHENE	ND	5	1.1
TOLUENE	ND	5	.99
TRANS-1,2-DICHLOROETHENE	ND	5	.73
TRANS-1,3-DICHLOROPROPENE	ND	5	.82
TRICHLOROETHENE	ND	5	.89
VINYL ACETATE	ND	50	1.4
VINYL CHLORIDE	ND	5	2.5
XYLENES	ND	5	3.1

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	114	62-139
BROMOFLUOROBENZENE	92	75-125
TOLUENE-D8	96	75-125

PRL: Project Reporting Limit
* : Out side of QC Limit
J : An estimated value between PRL and MDL
E : Value exceed the upper level of the initial calibration
B : Found in the associated blank
D : Value from dilution analysis

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
BATCH NO.: 00K238
METHOD: METHOD 5030A/8260A

MATRIX:	WATER			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK1W				
LAB SAMP ID:	VOK8405B	VOK8405L	VOK8405C		
LAB FILE ID:	RKQ940	RKQ938	RKQ939		
DATE EXTRACTED:	11/29/0023:50	11/29/0022:35	11/29/0023:13	DATE COLLECTED:	NA
DATE ANALYZED:	11/29/0023:50	11/29/0022:35	11/29/0023:13	DATE RECEIVED:	11/29/00
PREP. BATCH:	VOK8405	VOK8405	VOK8405		
CALIB. REF:	RKQ927	RKQ927	RKQ927		

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
1,1-Dichloroethene	ND	20	21.4	107	20	20.9	104	2	75-125	20
Benzene	ND	20	22.9	114	20	20.7	104	10	75-125	20
Chlorobenzene	ND	20	19.6	98	20	20.3	101	3	75-125	20
Toluene	ND	20	20.4	102	20	20.3	102	0	74-125	20
Trichloroethene	ND	20	22.5	112	20	20.1	101	11	71-125	20

SURROGATE PARAMETER	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	QC LIMIT (%)
1,2-Dichlorethane-d4	50	56.2	112	50	54.6	109	62-139
Bromofluorobenzene	50	45.2	90	50	45.9	92	75-125
Toluene-d8	50	48.7	97	50	47.9	96	75-125

METHOD 3010A/6010B
METALS BY ICP

Client	: IT CORPORATION	Date Collected:	11/28/00
oject	: MCAS EL TORO/18609/D.O. 70	Date Received:	11/28/00
G NO.	: 00K238	Date Extracted:	12/01/00 13:30
Sample ID:	18609-3688	Date Analyzed:	12/05/00 20:24
Lab Samp ID:	K238-02	Dilution Factor:	1
Lab File ID:	I07L012035	Matrix :	WATER
Ext Btch ID:	IPL004W	% Moisture :	NA
Calib. Ref.:	I07L012032	Instrument ID :	EMAXTI07

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
Aluminum	ND	500	46.3
Antimony	ND	500	27.5
Barium	ND	100	1.02
Beryllium	ND	10	.62
Cadmium	ND	10	4.24
Calcium	328J	5000	91.7
Chromium	7.99J	50	4.69
Cobalt	ND	50	9.06
Copper	ND	50	2.67
Iron	39.3J	200	10.5
Magnesium	105J	5000	81.2
Manganese	ND	20	1.49
Molybdenum	ND	100	9.34
Nickel	ND	150	8.9
Potassium	ND	5000	1970
Silver	ND	50	4.49
Sodium	687J	5000	417
Vanadium	ND	100	3.75
Zinc	ND	20	5.8

.: Reporting Limit

METHOD 3010A/6010B
METALS BY TRACE-ICP

Client	: IT CORPORATION	Date Collected:	11/28/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	11/28/00
SDG NO.	: 00K238	Date Extracted:	12/01/00 13:30
Sample ID:	18609-3688	Date Analyzed:	12/05/00 18:32
Lab Samp ID:	K238-02	Dilution Factor:	1
Lab File ID:	I31L007013	Matrix :	WATER
Ext Btch ID:	IPL004W	% Moisture :	NA
Calib. Ref.:	I31L007008	Instrument ID :	EMAXTI31

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
Arsenic	ND	10	2.43
Lead	ND	10	1.33
Selenium	1.99J	10	1.6
Thallium	ND	400	4.74

RL: Reporting Limit

METHOD 3010A/6010B
METALS BY ICP

Client	: IT CORPORATION	Date Collected:	11/28/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	11/28/00
JOB NO.	: 00K238	Date Extracted:	12/01/00 13:30
Sample ID:	18609-3689	Date Analyzed:	12/05/00 20:28
Lab Samp ID:	K238-03	Dilution Factor:	1
Lab File ID:	I07L012036	Matrix :	WATER
Ext Btch ID:	IPL004W	% Moisture :	NA
Calib. Ref.:	I07L012032	Instrument ID :	EMAXTI07

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
Aluminum	ND	500	46.3
Antimony	ND	500	27.5
Barium	264	100	1.02
Beryllium	ND	10	.62
Cadmium	ND	10	4.24
Calcium	62100	5000	91.7
Chromium	6.24J	50	4.69
Cobalt	ND	50	9.06
Copper	ND	50	2.67
Iron	696	200	10.5
Magnesium	39300	5000	81.2
Manganese	1020	20	1.49
Molybdenum	55.3J	100	9.34
Nickel	16.6J	150	8.9
Potassium	3940J	5000	1970
Silver	ND	50	4.49
Sodium	270000	5000	417
Vanadium	10.2J	100	3.75
Zinc	7.72J	20	5.8

RL: Reporting Limit

METHOD 3010A/6010B
METALS BY TRACE-ICP

Client	: IT CORPORATION	Date Collected:	11/28/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	11/28/00
SDG NO.	: 00K238	Date Extracted:	12/01/00 13:30
Sample ID:	18609-3689	Date Analyzed:	12/05/00 18:37
Lab Samp ID:	K238-03	Dilution Factor:	1
Lab File ID:	I31L007014	Matrix :	WATER
Ext Btch ID:	IPL004W	% Moisture :	NA
Calib. Ref.:	I31L007008	Instrument ID :	EMAXTI31

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
Arsenic	9.27J	10	2.43
Lead	ND	10	1.33
Selenium	1.83J	10	1.6
Thallium	6.77J	400	4.74

RL: Reporting Limit

METHOD 3010A/6010B
METALS BY ICP

Client	: IT CORPORATION	Date Collected:	11/28/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	11/28/00
SDG NO.	: 00K238	Date Extracted:	12/01/00 13:30
Sample ID:	18609-3690	Date Analyzed:	12/05/00 20:33
Lab Samp ID:	K238-04	Dilution Factor:	1
Lab File ID:	I07L012037	Matrix :	WATER
Ext Btch ID:	IPL004W	% Moisture :	NA
Calib. Ref.:	I07L012032	Instrument ID :	EMAXTI07

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
Aluminum	ND	500	46.3
Antimony	ND	500	27.5
Barium	204	100	1.02
Beryllium	ND	10	.62
Cadmium	ND	10	4.24
Calcium	99900	5000	91.7
Chromium	6.05J	50	4.69
Cobalt	ND	50	9.06
Copper	ND	50	2.67
Iron	43.9J	200	10.5
Magnesium	65700	5000	81.2
Manganese	857	20	1.49
Molybdenum	42.4J	100	9.34
Nickel	24.5J	150	8.9
Potassium	5410	5000	1970
Silver	ND	50	4.49
Sodium	183000	5000	417
Vanadium	11.7J	100	3.75
Zinc	9.87J	20	5.8

: Reporting Limit

METHOD 3010A/6010B
METALS BY TRACE-ICP

Client	: IT CORPORATION	Date Collected:	11/28/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	11/28/00
SDG NO.	: 00K238	Date Extracted:	12/01/00 13:30
Sample ID:	18609-3690	Date Analyzed:	12/05/00 18:42
Lab Samp ID:	K238-04	Dilution Factor:	1
Lab File ID:	I31L007015	Matrix :	WATER
Ext Btch ID:	IPL004W	% Moisture :	NA
Calib. Ref.:	I31L007008	Instrument ID :	EMAXTI31

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
Arsenic	ND	10	2.43
Lead	ND	10	1.33
Selenium	ND	10	1.6
Thallium	ND	400	4.74

RL: Reporting Limit

METHOD 3010A/6010B
METALS BY ICP

Client	: IT CORPORATION	Date Collected:	NA
oject	: MCAS EL TORO/18609/D.O. 70	Date Received:	12/01/00
G NO.	: 00K238	Date Extracted:	12/01/00 13:30
Sample ID:	MBLK1W	Date Analyzed:	12/05/00 19:52
Lab Samp ID:	IPL004WB	Dilution Factor:	1
Lab File ID:	I07L012028	Matrix :	WATER
Ext Btch ID:	IPL004W	% Moisture :	NA
Calib. Ref.:	I07L012020	Instrument ID :	EMAXTI07

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
Aluminum	ND	500	46.3
Antimony	ND	500	27.5
Barium	ND	100	1.02
Beryllium	ND	10	.62
Cadmium	ND	10	4.24
Calcium	ND	5000	91.7
Chromium	6.2J	50	4.69
Cobalt	ND	50	9.06
Copper	ND	50	2.67
Iron	ND	200	10.5
Magnesium	ND	5000	81.2
Manganese	ND	20	1.49
Molybdenum	ND	100	9.34
Nickel	ND	150	8.9
Potassium	ND	5000	1970
Silver	ND	50	4.49
Sodium	ND	5000	417
Vanadium	ND	100	3.75
Zinc	ND	20	5.8

.: Reporting Limit

METHOD 3010A/6010B
METALS BY TRACE-ICP

Client	: IT CORPORATION	Date Collected:	NA
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	12/01/00
SDG NO.	: 00K238	Date Extracted:	12/01/00 13:30
Sample ID:	MBLK1W	Date Analyzed:	12/05/00 18:14
Lab Samp ID:	IPL004WB	Dilution Factor:	1
Lab File ID:	I31L007010	Matrix :	WATER
Ext Btch ID:	IPL004W	% Moisture :	NA
Calib. Ref.:	I31L007008	Instrument ID :	EMAXTI31

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
Arsenic	ND	10	2.43
Lead	ND	10	1.33
Selenium	ND	10	1.6
Thallium	ND	400	4.74

RL: Reporting Limit

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
`G NO.: 00K238
`THOD: METHOD 3010A/6010B

MATRIX:	WATER			% MOISTURE:	NA
DILTN FACTR:	1	1	1		
SAMPLE ID:	MBLK1W				
CONTROL NO.:	IPL004WB	IPL004WL	IPL004WC		
LAB FILE ID:	I07L012028	I07L012029	I07L012030		
DATIME EXTRCTD:	12/01/0013:30	12/01/0013:30	12/01/0013:30	DATE COLLECTED:	NA
DATIME ANALYZD:	12/05/0019:52	12/05/0019:57	12/05/0020:01	DATE RECEIVED:	12/01/00
PREP. BATCH:	IPL004W	IPL004W	IPL004W		
CALIB. REF:	I07L012020	I07L012020	I07L012020		

ACCESSION:

PARAMETER	BLNK RSLT ug/L	SPIKE AMT ug/L	BS RSLT ug/L	BS % REC	SPIKE AMT ug/L	BSD RSLT ug/L	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Aluminum	ND	10000	9690	97	10000	10200	102	5	80-120	20
Antimony	ND	5000	4730	95	5000	4810	96	2	80-120	20
Barium	ND	1000	933	93	1000	980	98	5	80-120	20
Beryllium	ND	1000	935	94	1000	985	99	5	80-120	20
Cadmium	ND	1000	918	92	1000	973	97	6	80-120	20
Calcium	ND	50000	47800	96	50000	43200	86	10	80-120	20
Chromium	6.2J	1000	936	93	1000	979	97	4	80-120	20
Cobalt	ND	1000	931	93	1000	974	97	4	80-120	20
Copper	ND	1000	929	93	1000	977	98	5	80-120	20
Iron	ND	10000	9720	97	10000	10200	102	5	80-120	20
Magnesium	ND	50000	48700	97	50000	43100	86	12	80-120	20
Manganese	ND	1000	905	90	1000	953	95	5	80-120	20
Molybdenum	ND	1000	940	94	1000	834	83	12	80-120	20
ickel	ND	1000	928	93	1000	985	98	6	80-120	20
Potassium	ND	50000	47500	95	50000	43200	86	10	80-120	20
Silver	ND	1000	953	95	1000	1000	100	5	80-120	20
Sodium	ND	50000	47200	94	50000	42800	86	10	80-120	20
Vanadium	ND	1000	929	93	1000	963	96	4	80-120	20
Zinc	ND	1000	925	93	1000	984	98	6	80-120	20

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
SDG NO.: 00K238
METHOD: METHOD 3010A/6010B

MATRIX:	WATER			% MOISTURE:	NA
DILTN FACTR:	1	1	1		
SAMPLE ID:	MBLK1W				
CONTROL NO.:	IPL004WB	IPL004WL	IPL004WC		
LAB FILE ID:	I31L007010	I31L007011	I31L007012		
DATIME EXTRCTD:	12/01/0013:30	12/01/0013:30	12/01/0013:30	DATE COLLECTED:	NA
DATIME ANALYZD:	12/05/0018:14	12/05/0018:20	12/05/0018:24	DATE RECEIVED:	12/01/00
PREP. BATCH:	IPL004W	IPL004W	IPL004W		
CALIB. REF:	I31L007008	I31L007008	I31L007008		

ACCESSION:

PARAMETER	BLNK RSLT ug/L	SPIKE AMT ug/L	BS RSLT ug/L	BS % REC	SPIKE AMT ug/L	BSD RSLT ug/L	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Arsenic	ND	1000	963	96	1000	1010	101	5	80-120	20
Lead	ND	1000	923	92	1000	969	97	5	80-120	20
Selenium	ND	1000	995	99	1000	1030	103	3	80-120	20
Thallium	ND	1000	999	100	1000	1050	105	5	80-120	20

METHOD 7470A
MERCURY BY COLD VAPOR

Client : IT CORPORATION
Project : MCAS EL TORO/18609/D.O. 70
Batch No. : OOK238

Matrix : WATER
Instrument ID : TI023

SAMPLE ID	EMAX SAMPLE ID	RESULTS (ug/L)	DLF	MOIST	RL (ug/L)	MDL (ug/L)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1W	HGK047WB	ND	1	NA	.2	.129	12/01/0013:01	11/30/0018:00	M00K048009	M00K048006	HGK047W	NA	11/30/00
LCS1W	HGK047WL	5.46	1	NA	.2	.129	12/01/0013:04	11/30/0018:00	M00K048010	M00K048006	HGK047W	NA	11/30/00
LCD1W	HGK047WC	5.41	1	NA	.2	.129	12/01/0013:07	11/30/0018:00	M00K048011	M00K048006	HGK047W	NA	11/30/00
18609-3688	K238-02	ND	1	NA	.2	.129	12/01/0013:36	11/30/0018:00	M00K048021	M00K048018	HGK047W	11/28/00	11/28/00
18609-3689	K238-03	ND	1	NA	.2	.129	12/01/0013:39	11/30/0018:00	M00K048022	M00K048018	HGK047W	11/28/00	11/28/00
18609-3690	K238-04	ND	1	NA	.2	.129	12/01/0013:42	11/30/0018:00	M00K048023	M00K048018	HGK047W	11/28/00	11/28/00

RL: Reporting Limit

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
SDG NO.: 00K238
METHOD: METHOD 7470A

MATRIX:	WATER			% MOISTURE:	NA
DILTN FACTR:	1	1	1		
SAMPLE ID:	MBLK1W				
CONTROL NO.:	HGK047WB	HGK047WL	HGK047WC		
LAB FILE ID:	M00K048009	M00K048010	M00K048011		
DATIME EXTRCTD:	11/30/0018:00	11/30/0018:00	11/30/0018:00	DATE COLLECTED:	NA
DATIME ANALYZD:	12/01/0013:01	12/01/0013:04	12/01/0013:07	DATE RECEIVED:	11/30/00
PREP. BATCH:	HGK047W	HGK047W	HGK047W		
CALIB. REF:	M00K048006	M00K048006	M00K048006		

ACCESSION:

PARAMETER	BLNK RSLT ug/L	SPIKE AMT ug/L	BS RSLT ug/L	BS % REC	SPIKE AMT ug/L	BSD RSLT ug/L	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Mercury	ND	5	5.46	109	5	5.41	108	1	77-120	15

7027

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
SDG NO.: 00K238
METHOD: METHOD 7470A

MATRIX:	WATER			% MOISTURE:	NA
DILTN FACTR:	1	1	1		
SAMPLE ID:	45-07-SW-00				
CONTROL NO.:	K172-01	K172-01M	K172-01S		
LAB FILE ID:	M00K048012	M00K048013	M00K048014		
DATIME EXTRCTD:	NA	NA	NA	DATE COLLECTED:	11/16/00
DATIME ANALYZD:	12/01/0013:10	12/01/0013:12	12/01/0013:15	DATE RECEIVED:	11/17/00
PREP. BATCH:	HGK047W	HGK047W	HGK047W		
CALIB. REF:	M00K048006	M00K048006	M00K048006		

ACCESSION:

PARAMETER	SMPL RSLT ug/L	SPIKE AMT ug/L	MS RSLT ug/L	MS % REC	SPIKE AMT ug/L	MSD RSLT ug/L	MSD % REC	RPD %	QC LIMIT %	MAX RPD %
Mercury	ND	5	5.38	108	5	5.4	108	0	77-120	15

7038

METHOD 300.0
NITRATE/NITRITE-N

Client : IT CORPORATION
Project : MCAS EL TORO/18609/D.O. 70
Batch No. : 00K238

Matrix : WATER
Instrument ID : TI006

SAMPLE ID	EMAX SAMPLE ID	RESULTS (mg/L)	DLF	MOIST	RL (mg/L)	MDL (mg/L)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1W	ICK036WB	ND	1	NA	.1	.0206	11/29/0016:45	NA	AK29003A	AK29001A	ICK036W	NA	NA
LCS1W	ICK036WL	4.01	1	NA	.1	.0206	11/29/0017:02	NA	AK29004A	AK29001A	ICK036W	NA	NA
LCD1W	ICK036WC	4.00	1	NA	.1	.0206	11/29/0017:19	NA	AK29005A	AK29001A	ICK036W	NA	NA
18609-3688	K238-02	.042J	1	NA	.1	.0206	11/29/0021:35	NA	AK29020A	AK29013A	ICK036W	11/28/00	11/28/00
MBLK2W	ICL006WB	ND	1	NA	.1	.0206	12/04/0019:05	NA	AL04003A	AL04001A	ICL006W	NA	NA
LCS2W	ICL006WL	3.93	1	NA	.1	.0206	12/04/0019:22	NA	AL04004A	AL04001A	ICL006W	NA	NA
LCD2W	ICL006WC	3.98	1	NA	.1	.0206	12/04/0019:39	NA	AL04005A	AL04001A	ICL006W	NA	NA
18609-3689	K238-03	2.70	10	NA	1	.206	12/04/0019:56	NA	AL04006A	AL04001A	ICL006W	11/28/00	11/28/00
18609-3690	K238-04	3.31	10	NA	1	.206	12/04/0020:13	NA	AL04007A	AL04001A	ICL006W	11/28/00	11/28/00
18609-3690MS	K238-04M	21.5	10	NA	1	.206	12/04/0020:47	NA	AL04009A	AL04001A	ICL006W	11/28/00	11/28/00
18609-3690DUP	K238-04D	3.14	10	NA	1	.206	12/04/0020:30	NA	AL04008A	AL04001A	ICL006W	11/28/00	11/28/00

RL: Reporting Limit

METHOD 300.0
ORTHOPHOSPHATE-P

Client : IT CORPORATION
Project : MCAS EL TORO/18609/D.O. 70
Batch No. : 00K238

Matrix : WATER
Instrument ID : TI006

SAMPLE ID	EMAX SAMPLE ID	RESULTS (mg/L)	DLF	MOIST	RL (mg/L)	MDL (mg/L)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1W	ICK036WB	ND	1	NA	.5	.0322	11/29/0016:45	NA	AK29003A	AK29001A	ICK036W	NA	NA
LCS1W	ICK036WL	1.99	1	NA	.5	.0322	11/29/0017:02	NA	AK29004A	AK29001A	ICK036W	NA	NA
LCD1W	ICK036WC	1.99	1	NA	.5	.0322	11/29/0017:19	NA	AK29005A	AK29001A	ICK036W	NA	NA
18609-3688	K238-02	ND	1	NA	.5	.0322	11/29/0021:35	NA	AK29020A	AK29013A	ICK036W	11/28/00	11/28/00
MBLK2W	ICL004WB	ND	1	NA	.5	.0322	12/03/0011:01	NA	AL03003A	AL03001A	ICL004W	NA	NA
LCS2W	ICL004WL	2.05	1	NA	.5	.0322	12/03/0011:18	NA	AL03004A	AL03001A	ICL004W	NA	NA
LCD2W	ICL004WC	2.05	1	NA	.5	.0322	12/03/0011:35	NA	AL03005A	AL03001A	ICL004W	NA	NA
18609-3689	K238-03	ND	2	NA	1	.0644	12/03/0015:50	NA	AL03020A	AL03013A	ICL004W	11/28/00	11/28/00
18609-3690	K238-04	ND	2	NA	1	.0644	12/03/0016:07	NA	AL03021A	AL03013A	ICL004W	11/28/00	11/28/00
18609-3690MS	K238-04M	3.66	2	NA	1	.0644	12/03/0016:41	NA	AL03023A	AL03013A	ICL004W	11/28/00	11/28/00
18609-3690DUP	K238-04D	ND	2	NA	1	.0644	12/03/0016:24	NA	AL03022A	AL03013A	ICL004W	11/28/00	11/28/00

RL : Reporting Limit

METHOD 300.0
SULFATE

Client : IT CORPORATION
Project : MCAS EL TORO/18609/D.O. 70
Batch No. : 00K238

Matrix : WATER
Instrument ID : TI006

SAMPLE ID	EMAX SAMPLE ID	RESULTS (mg/L)	DLF	MOIST	RL (mg/L)	MDL (mg/L)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1W	ICK036WB	ND	1	NA	.5	.101	11/29/0016:45	NA	AK29003A	AK29001A	ICK036W	NA	NA
LCS1W	ICK036WL	21.1	1	NA	.5	.101	11/29/0017:02	NA	AK29004A	AK29001A	ICK036W	NA	NA
LCD1W	ICK036WC	21	1	NA	.5	.101	11/29/0017:19	NA	AK29005A	AK29001A	ICK036W	NA	NA
18609-3688	K238-02	.517	1	NA	.5	.101	11/29/0021:35	NA	AK29020A	AK29013A	ICK036W	11/28/00	11/28/00
MBLK2W	ICL004WB	ND	1	NA	.5	.101	12/03/0011:01	NA	AL03003A	AL03001A	ICL004W	NA	NA
LCS2W	ICL004WL	19.9	1	NA	.5	.101	12/03/0011:18	NA	AL03004A	AL03001A	ICL004W	NA	NA
LCD2W	ICL004WC	19.9	1	NA	.5	.101	12/03/0011:35	NA	AL03005A	AL03001A	ICL004W	NA	NA
18609-3689	K238-03	19.9	2	NA	1	.202	12/03/0015:50	NA	AL03020A	AL03013A	ICL004W	11/28/00	11/28/00
MBLK3W	ICL005WB	ND	1	NA	.5	.101	12/03/0017:49	NA	AL03027A	AL03025A	ICL005W	NA	NA
LCS3W	ICL005WL	19.7	1	NA	.5	.101	12/03/0018:07	NA	AL03028A	AL03025A	ICL005W	NA	NA
LCD3W	ICL005WC	19.7	1	NA	.5	.101	12/03/0018:24	NA	AL03029A	AL03025A	ICL005W	NA	NA
18609-3690	K238-04	76.4	25	NA	12.5	2.53	12/03/0018:58	NA	AL03031A	AL03025A	ICL005W	11/28/00	11/28/00
18609-3690MS	K238-04M	185	25	NA	12.5	2.53	12/03/0019:32	NA	AL03033A	AL03025A	ICL005W	11/28/00	11/28/00
18609-3690DUP	K238-04D	75.1	25	NA	12.5	2.53	12/03/0019:15	NA	AL03032A	AL03025A	ICL005W	11/28/00	11/28/00

RL : Reporting Limit

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
BATCH NO.: 00K238
METHOD: METHOD 300.0

MATRIX:	WATER			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK1W				
LAB SAMP ID:	ICK036WB	ICK036WL	ICK036WC		
LAB FILE ID:	AK29003A	AK29004A	AK29005A		
DATE EXTRACTED:	NA	NA	NA	DATE COLLECTED:	NA
DATE ANALYZED:	11/29/0016:45	11/29/0017:02	11/29/0017:19	DATE RECEIVED:	NA
PREP. BATCH:	ICK036W	ICK036W	ICK036W		
CALIB. REF:	AK29001A	AK29001A	AK29001A		

ACCESSION:

PARAMETER	BLNK RSLT (mg/L)	SPIKE AMT (mg/L)	BS RSLT (mg/L)	BS % REC	SPIKE AMT (mg/L)	BSD RSLT (mg/L)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
Nitrate/Nitrite-N	ND	4	4.01	100	4	4.00	100	0	80-120	20

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
BATCH NO.: 00K238
METHOD: METHOD 300.0

MATRIX:	WATER			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK2W				
LAB SAMP ID:	ICL006W	ICL006WL	ICL006WC		
LAB FILE ID:	AL04003A	AL04004A	AL04005A		
DATE EXTRACTED:	NA	NA	NA	DATE COLLECTED:	NA
DATE ANALYZED:	12/04/0019:05	12/04/0019:22	12/04/0019:39	DATE RECEIVED:	NA
PREP. BATCH:	ICL006W	ICL006W	ICL006W		
CALIB. REF:	AL04001A	AL04001A	AL04001A		

ACCESSION:

PARAMETER	BLNK RSLT (mg/L)	SPIKE AMT (mg/L)	BS RSLT (mg/L)	BS % REC	SPIKE AMT (mg/L)	BSD RSLT (mg/L)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
Nitrate/Nitrite-N	ND	4	3.93	98	4	3.98	100	1	80-120	20

8008

EMAX QUALITY CONTROL DATA
MS ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
BATCH NO.: 00K238
METHOD: METHOD 300.0

==========

MATRIX:	WATER		% MOISTURE:	NA
DILUTION FACTOR:	10	10		
SAMPLE ID:	18609-3690			
LAB SAMP ID:	K238-04	K238-04M		
LAB FILE ID:	AL04007A	AL04009A		
DATE EXTRACTED:	NA	NA	DATE COLLECTED:	11/28/00
DATE ANALYZED:	12/04/0020:13	12/04/0020:47	DATE RECEIVED:	11/28/00
PREP. BATCH:	ICL006W	ICL006W		
CALIB. REF:	AL04001A	AL04001A		

ACCESSION:

PARAMETER	SMPL RSLT (mg/L)	SPIKE AMT (mg/L)	MS RSLT (mg/L)	MS % REC	QC LIMIT (%)
Nitrate/Nitrite-N	3.31	20	21.5	91	80-120

6008

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
BATCH NO.: 00K238
METHOD: METHOD 300.0

MATRIX:	WATER			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK1W				
LAB SAMP ID:	ICK036WB	ICK036WL	ICK036WC		
LAB FILE ID:	AK29003A	AK29004A	AK29005A		
DATE EXTRACTED:	NA	NA	NA	DATE COLLECTED:	NA
DATE ANALYZED:	11/29/0016:45	11/29/0017:02	11/29/0017:19	DATE RECEIVED:	NA
PREP. BATCH:	ICK036W	ICK036W	ICK036W		
CALIB. REF:	AK29001A	AK29001A	AK29001A		

ACCESSION:

PARAMETER	BLNK RSLT (mg/L)	SPIKE AMT (mg/L)	BS RSLT (mg/L)	BS % REC	SPIKE AMT (mg/L)	BSD RSLT (mg/L)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
Sulfate	ND	20	21.1	105	20	21	105	0	80-120	20

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
BATCH NO.: 00K238
METHOD: METHOD 300.0

MATRIX:	WATER			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK2W				
LAB SAMP ID:	ICL004WB	ICL004WL	ICL004WC		
LAB FILE ID:	AL03003A	AL03004A	AL03005A		
DATE EXTRACTED:	NA	NA	NA	DATE COLLECTED:	NA
DATE ANALYZED:	12/03/0011:01	12/03/0011:18	12/03/0011:35	DATE RECEIVED:	NA
PREP. BATCH:	ICL004W	ICL004W	ICL004W		
CALIB. REF:	AL03001A	AL03001A	AL03001A		

ACCESSION:

PARAMETER	BLNK RSLT (mg/L)	SPIKE AMT (mg/L)	BS RSLT (mg/L)	BS % REC	SPIKE AMT (mg/L)	BSD RSLT (mg/L)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
Sulfate	ND	20	19.9	100	20	19.9	100	0	80-120	20

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
BATCH NO.: 00K238
METHOD: METHOD 300.0

MATRIX:	WATER			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK3W				
LAB SAMP ID:	ICL005WB	ICL005WL	ICL005WC		
LAB FILE ID:	AL03027A	AL03028A	AL03029A		
DATE EXTRACTED:	NA	NA	NA	DATE COLLECTED:	NA
DATE ANALYZED:	12/03/0017:49	12/03/0018:07	12/03/0018:24	DATE RECEIVED:	NA
PREP. BATCH:	ICL005W	ICL005W	ICL005W		
CALIB. REF:	AL03025A	AL03025A	AL03025A		

ACCESSION:

PARAMETER	BLNK RSLT (mg/L)	SPIKE AMT (mg/L)	BS RSLT (mg/L)	BS % REC	SPIKE AMT (mg/L)	BSD RSLT (mg/L)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
Sulfate	ND	20	19.7	98	20	19.7	98	0	80-120	20

EMAX QUALITY CONTROL DATA
MS ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
BATCH NO.: 00K238
METHOD: METHOD 300.0

==========

MATRIX:	WATER		% MOISTURE:	NA
DILUTION FACTOR:	25	25		
SAMPLE ID:	18609-3690			
LAB SAMP ID:	K238-04	K238-04M		
LAB FILE ID:	AL03031A	AL03033A		
DATE EXTRACTED:	NA	NA	DATE COLLECTED:	11/28/00
DATE ANALYZED:	12/03/0018:58	12/03/0019:32	DATE RECEIVED:	11/28/00
PREP. BATCH:	ICL005W	ICL005W		
CALIB. REF:	AL03025A	AL03025A		

ACCESSION:

PARAMETER	SMPL RSLT (mg/L)	SPIKE AMT (mg/L)	MS RSLT (mg/L)	MS % REC	QC LIMIT (%)
Sulfate	76.4	125	185	87	80-120

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
BATCH NO.: 00K238
METHOD: METHOD 300.0

MATRIX:	WATER			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK1W				
LAB SAMP ID:	ICK036WB	ICK036WL	ICK036WC		
LAB FILE ID:	AK29003A	AK29004A	AK29005A		
DATE EXTRACTED:	NA	NA	NA	DATE COLLECTED:	NA
DATE ANALYZED:	11/29/0016:45	11/29/0017:02	11/29/0017:19	DATE RECEIVED:	NA
PREP. BATCH:	ICK036W	ICK036W	ICK036W		
CALIB. REF:	AK29001A	AK29001A	AK29001A		

ACCESSION:

PARAMETER	BLNK RSLT (mg/L)	SPIKE AMT (mg/L)	BS RSLT (mg/L)	BS % REC	SPIKE AMT (mg/L)	BSD RSLT (mg/L)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
Orthophosphate-P	ND	2	1.99	99	2	1.99	100	0	80-120	20

8016

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
BATCH NO.: 00K238
METHOD: METHOD 300.0

MATRIX:	WATER			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK2W				
LAB SAMP ID:	ICL004WB	ICL004WL	ICL004WC		
LAB FILE ID:	AL03003A	AL03004A	AL03005A		
DATE EXTRACTED:	NA	NA	NA	DATE COLLECTED:	NA
DATE ANALYZED:	12/03/0011:01	12/03/0011:18	12/03/0011:35	DATE RECEIVED:	NA
PREP. BATCH:	ICL004W	ICL004W	ICL004W		
CALIB. REF:	AL03001A	AL03001A	AL03001A		

ACCESSION:

PARAMETER	BLNK RSLT (mg/L)	SPIKE AMT (mg/L)	BS RSLT (mg/L)	BS % REC	SPIKE AMT (mg/L)	BSD RSLT (mg/L)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
Orthophosphate-P	ND	2	2.05	103	2	2.05	103	0	80-120	20

8017

EMAX QUALITY CONTROL DATA
MS ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
BATCH NO.: 00K238
METHOD: METHOD 300.0

==========

MATRIX:	WATER		% MOISTURE:	NA
DILUTION FACTOR:	2	2		
SAMPLE ID:	18609-3690			
LAB SAMP ID:	K238-04	K238-04M		
LAB FILE ID:	AL03021A	AL03023A		
DATE EXTRACTED:	NA	NA	DATE COLLECTED:	11/28/00
DATE ANALYZED:	12/03/0016:07	12/03/0016:41	DATE RECEIVED:	11/28/00
PREP. BATCH:	ICL004W	ICL004W		
CALIB. REF:	AL03013A	AL03013A		

ACCESSION:

PARAMETER	SMPL RSLT (mg/L)	SPIKE AMT (mg/L)	MS RSLT (mg/L)	MS % REC	QC LIMIT (%)
Orthophosphate-P	ND	4	3.66	91	80-120

METHOD 310.1
TOTAL ALKALINITY

Client : IT CORPORATION
Project : MCAS EL TORO/18609/D.O. 70
Batch No. : 00K238

Matrix : WATER
Instrument ID :

SAMPLE ID	EMAX SAMPLE ID	RESULTS (mg/L)	DLF	MOIST	RL (mg/L)	MDL (mg/L)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
18609-3688	K238-02	ND	1	NA	5	.469	12/05/0009:15	NA	ALK007W-4	NA	ALK007W	11/28/00	11/28/00
18609-3689	K238-03	576	1	NA	5	.469	12/05/0009:30	NA	ALK007W-5	NA	ALK007W	11/28/00	11/28/00
18609-3690	K238-04	662	1	NA	5	.469	12/05/0010:00	NA	ALK007W-7	NA	ALK007W	11/28/00	11/28/00
18609-3690DUP	K238-04D	667	1	NA	5	.469	12/05/0010:15	NA	ALK007W-8	NA	ALK007W	11/28/00	11/28/00
18609-3690MS	K238-04M	775	1	NA	5	.469	12/05/0010:30	NA	ALK007W-9	NA	ALK007W	11/28/00	11/28/00
MBLK1W	ALK007WB	ND	1	NA	5	.469	12/05/0008:30	NA	ALK007W-1	NA	ALK007W	NA	NA
LCS1W	ALK007WL	102	1	NA	5	.469	12/05/0008:45	NA	ALK007W-2	NA	ALK007W	NA	NA
LCD1W	ALK007WC	102	1	NA	5	.469	12/05/0009:00	NA	ALK007W-3	NA	ALK007W	NA	NA

RL: Reporting Limit

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
METHOD: METHOD 310.1
MATRIX: WATER
% MOISTURE: NA

BATCH NO.: 00K238
SAMPLE ID: LCS1W/LCD1W
CONTROL NO.: ALK007WL/C

DATE RECEIVED: NA
DATE EXTRACTED: NA
DATE ANALYZED: 12/05/00 08:45/09:00

ACCESSION:

PARAMETER	BLNK RSLT (mg/L)	SPIKE AMT (mg/L)	BS RSLT (mg/L)	BS % REC	SPIKE AMT (mg/L)	BSD RSLT (mg/L)	BSD % REC	RPD %	QC LIMIT %	RPD LIMIT %
Alkalinity	ND	101	102	101	101	102	101	0	80-120	20

8052

EMAX QUALITY CONTROL DATA
MS ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
METHOD: METHOD 310.1
MATRIX: WATER
% MOISTURE: NA

BATCH NO.: 00K238
SAMPLE ID: 18609-3690MS
CONTROL NO.: K238-04M

DATE RECEIVED: 11/28/00
DATE EXTRACTED: NA
DATE ANALYZED: 12/05/00 10:30

ACCESSION:

PARAMETER	SMPL RSLT (mg/L)	SPIKE AMT (mg/L)	MS RSLT (mg/L)	MS % REC	QC LIMIT (%)
Alkalinity	662	114	775	99	80-120

METHOD 160.1
TOTAL DISSOLVED SOLIDS

Client : IT CORPORATION
Project : MCAS EL TORO/18609/D.O. 70
Batch No. : OOK238

Matrix : WATER
Instrument ID :

SAMPLE ID	EMAX SAMPLE ID	RESULTS (mg/L)	DLF	MOIST	RL (mg/L)	MDL (mg/L)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
18609-3688	K238-02	ND	1	NA	10	4.33	12/02/0017:06	NA	DSL001W-7	NA	DSL001W	11/28/00	11/28/00
18609-3689	K238-03	965	1	NA	10	4.33	12/02/0017:07	NA	DSL001W-8	NA	DSL001W	11/28/00	11/28/00
18609-3690	K238-04	890	1	NA	10	4.33	12/02/0017:08	NA	DSL001W-9	NA	DSL001W	11/28/00	11/28/00
MBLK1W	DSL001WB	ND	1	NA	10	4.33	12/02/0017:00	NA	DSL001W-1	NA	DSL001W	NA	NA
LCS1W	DSL001WL	445	1	NA	10	4.33	12/02/0017:01	NA	DSL001W-2	NA	DSL001W	NA	NA
LCD1W	DSL001WC	445	1	NA	10	4.33	12/02/0017:02	NA	DSL001W-3	NA	DSL001W	NA	NA

RL : Reporting Limit

8037

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
METHOD: METHOD 160.1
MATRIX: WATER
% MOISTURE: NA

BATCH NO.: 00K238
SAMPLE ID: LCS1W/LCD1W
CONTROL NO.: DSL001WL/C

DATE RECEIVED: NA
DATE EXTRACTED: NA
DATE ANALYZED: 12/02/00 17:01/17:02

ACCESSION:

PARAMETER	BLNK RSLT (mg/L)	SPIKE AMT (mg/L)	BS RSLT (mg/L)	BS % REC	SPIKE AMT (mg/L)	BSD RSLT (mg/L)	BSD % REC	RPD %	QC LIMIT %	RPD LIMIT %
TDS	ND	442	445	101	442	445	101	0	80-120	20

8058

METHOD 351.3
TKN

Client : IT CORPORATION
Project : MCAS EL TORO/18609/D.O. 70
Batch No. : 00K238

Matrix : WATER
Instrument ID : I21

SAMPLE ID	EMAX SAMPLE ID	RESULTS (mg/L)	DLF	MOIST	RL (mg/L)	MDL (mg/L)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1W	KNK002WB	ND	1	NA	1	.0255	11/30/0009:40	11/29/0014:00	KNK002W-11	KNK002W-09	KNK002W	NA	11/29/00
LCS1W	KNK002WL	3.20	1	NA	1	.0255	11/30/0009:41	11/29/0014:00	KNK002W-12	KNK002W-09	KNK002W	NA	11/29/00
LCD1W	KNK002WC	3.09	1	NA	1	.0255	11/30/0009:42	11/29/0014:00	KNK002W-13	KNK002W-09	KNK002W	NA	11/29/00
18609-3688	K238-02	1.11	1	NA	1	.0255	11/30/0009:43	11/29/0014:00	KNK002W-14	KNK002W-09	KNK002W	11/28/00	11/28/00
18609-3688DUP	K238-02D	1.07	1	NA	1	.0255	11/30/0009:44	11/29/0014:00	KNK002W-15	KNK002W-09	KNK002W	11/28/00	11/28/00
18609-3688MS	K238-02M	1.73	1	NA	1	.0255	11/30/0009:45	11/29/0014:00	KNK002W-16	KNK002W-09	KNK002W	11/28/00	11/28/00
18609-3689	K238-03	1.20	1	NA	1	.0255	11/30/0009:46	11/29/0014:00	KNK002W-17	KNK002W-09	KNK002W	11/28/00	11/28/00
18609-3690	K238-04	1.10	1	NA	1	.0255	11/30/0009:47	11/29/0014:00	KNK002W-18	KNK002W-09	KNK002W	11/28/00	11/28/00

RL : Reporting Limit

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
METHOD: METHOD 351.3
MATRIX: WATER
% MOISTURE: NA

BATCH NO.: 00K238
SAMPLE ID: LCS1W/LCD1W
CONTROL NO.: KNK002WL/C

DATE RECEIVED: 11/29/00
DATE EXTRACTED: 11/29/00 14:00
DATE ANALYZED: 11/30/00 09:41/09:42

ACCESSION:

PARAMETER	BLNK RSLT (mg/L)	SPIKE AMT (mg/L)	BS RSLT (mg/L)	BS % REC	SPIKE AMT (mg/L)	BSD RSLT (mg/L)	BSD % REC	RPD %	QC LIMIT %	RPD LIMIT %
TKN	ND	2.97	3.20	108	2.97	3.09	104	3	80-120	20

8063

EMAX QUALITY CONTROL DATA
MS ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
METHOD: METHOD 351.3
MATRIX: WATER
% MOISTURE: NA

BATCH NO.: 00K238
SAMPLE ID: 18609-3688MS
CONTROL NO.: K238-02M

DATE RECEIVED: 11/28/00
DATE EXTRACTED: 11/29/00 14:00
DATE ANALYZED: 11/30/00 09:45

ACCESSION:

PARAMETER	SMPL RSLT (mg/L)	SPIKE AMT (mg/L)	MS RSLT (mg/L)	MS % REC	QC LIMIT (%)
TKN	1.11	.6	1.73	103	80-120

8064

METHOD 150.1
PH

Client : IT CORPORATION
Project : MCAS EL TORO/18609/D.O. 70
Batch No. : 00K238

Matrix : WATER
Instrument ID :

SAMPLE ID	EMAX SAMPLE ID	RESULTS (pH unit)	DLF	MOIST	RL (pH/unit)	MDL (pH/unit)	Analysis Datetime	Extraction Datetime	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
18609-3688	K238-02	5.83	1	NA	.1	.000	11/29/0011:35	NA	PHK005W-2	NA	PHK005W	11/28/00	11/28/00
18609-3688DUP	K238-02D	5.82	1	NA	.1	.000	11/29/0011:40	NA	PHK005W-3	NA	PHK005W	11/28/00	11/28/00
18609-3689	K238-03	7.04	1	NA	.1	.000	11/29/0011:45	NA	PHK005W-4	NA	PHK005W	11/28/00	11/28/00
18609-3690	K238-04	7.16	1	NA	.1	.000	11/29/0011:50	NA	PHK005W-5	NA	PHK005W	11/28/00	11/28/00

RL: Reporting Limit

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: MCAS El Toro

Collection Date: November 28, 2000

LDC Report Date: January 4, 2001

Matrix: Water

Parameters: Total Petroleum Hydrocarbons as Extractables

Validation Level: NFESC Level C

Laboratory: EMAX Laboratories, Inc.

Sample Delivery Group (SDG): 00K238

Sample Identification

18609-3688
18609-3689
18609-3690

Introduction

This data review covers 3 water samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8015 modified for Total Petroleum Hydrocarbons (TPH) as Extractables.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (October 1999) as there are no current guidelines for the method stated above.

A table summarizing all data qualification is provided at the end of this report. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Blank results are summarized in Section III.

Field duplicates are summarized in Section IX.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Calibration

a. Initial Calibration

Initial calibration of compounds was performed as required by the method.

The percent relative standard deviations (%RSD) of calibration factors for compounds were less than or equal to 20.0% .

b. Calibration Verification

Calibration verification was performed at required frequencies. The percent differences (%D) of amounts in continuing standard mixtures were within the 15.0% QC limits.

III. Blanks

Method blanks were reviewed for each matrix as applicable. No total petroleum hydrocarbons as extractable contaminants were found in the method blanks.

IV. Accuracy and Precision Data

a. Surrogate Recovery

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

b. Matrix Spike/Matrix Spike Duplicates

The laboratory has indicated that there were no matrix spike (MS) and matrix spike duplicate (MSD) analyses specified for the samples in this SDG, and therefore matrix spike and matrix spike duplicate analyses were not performed for this SDG.

c. Laboratory Control Samples

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

V. Target Compound Identification

Raw data were not reviewed for this SDG.

VI. Compound Quantitation and CRQLs

Raw data were not reviewed for this SDG.

VII. System Performance

Raw data were not reviewed for this SDG.

VIII. Overall Assessment of Data

Data flags have been summarized at the end of this report.

IX. Field Duplicates

No field duplicates were identified in this SDG.

X. Field Blanks

No field blanks were identified in this SDG.

MCAS El Toro
Total Petroleum Hydrocarbons as Extractables - Data Qualification Summary - SDG 00K238

No Sample Data Qualified in this SDG

MCAS El Toro
Total Petroleum Hydrocarbons as Extractables - Laboratory Blank Data Qualification Summary - SDG 00K238

No Sample Data Qualified in this SDG

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: MCAS El Toro

Collection Date: November 28, 2000

LDC Report Date: January 4, 2001

Matrix: Water

Parameters: Total Petroleum Hydrocarbons as Gasoline

Validation Level: NFESC Level C

Laboratory: EMAX Laboratories, Inc.

Sample Delivery Group (SDG): 00K238

Sample Identification

18609-3688
18609-3689
18609-3690

Introduction

This data review covers 3 water samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8015 modified for Total Petroleum Hydrocarbons (TPH) as Gasoline.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (October 1999) as there are no current guidelines for the method stated above.

A table summarizing all data qualification is provided at the end of this report. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Blank results are summarized in Section III.

Field duplicates are summarized in Section IX.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Calibration

a. Initial Calibration

Initial calibration of compounds was performed as required by the method.

The percent relative standard deviations (%RSD) of calibration factors for compounds were less than or equal to 20.0% .

b. Calibration Verification

Calibration verification was performed at required frequencies. The percent differences (%D) of amounts in continuing standard mixtures were within the 15.0% QC limits.

III. Blanks

Method blanks were reviewed for each matrix as applicable. No total petroleum hydrocarbons as gasoline contaminants were found in the method blanks.

IV. Accuracy and Precision Data

a. Surrogate Recovery

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

b. Matrix Spike/Matrix Spike Duplicates

The laboratory has indicated that there were no matrix spike (MS) and matrix spike duplicate (MSD) analyses specified for the samples in this SDG, and therefore matrix spike and matrix spike duplicate analyses were not performed for this SDG.

c. Laboratory Control Samples

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

V. Target Compound Identification

Raw data were not reviewed for this SDG.

VI. Compound Quantitation and CRQLs

Raw data were not reviewed for this SDG.

VII. System Performance

Raw data were not reviewed for this SDG.

VIII. Overall Assessment of Data

Data flags have been summarized at the end of this report.

IX. Field Duplicates

No field duplicates were identified in this SDG.

X. Field Blanks

No field blanks were identified in this SDG.

MCAS El Toro
Total Petroleum Hydrocarbons as Gasoline - Data Qualification Summary - SDG 00K238

No Sample Data Qualified in this SDG

MCAS El Toro
Total Petroleum Hydrocarbons as Gasoline - Laboratory Blank Data Qualification Summary - SDG 00K238

No Sample Data Qualified in this SDG

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: MCAS El Toro

Collection Date: November 28, 2000

LDC Report Date: December 29, 2000

Matrix: Water

Parameters: Volatiles

Validation Level: NFESC Level C

Laboratory: EMAX Laboratories, Inc.

Sample Delivery Group (SDG): 00K238

Sample Identification

18609-3687
18609-3688
18609-3689
18609-3690

Introduction

This data review covers 4 water samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8260A for Volatiles.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (October 1999) as there are no current guidelines for the method stated above.

A table summarizing all data qualification is provided at the end of this report. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Blank results are summarized in Section V.

Field duplicates are summarized in Section XVI.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. GC/MS Instrument Performance Check

Instrument performance was checked at 12 hour intervals.

All ion abundance requirements were met.

III. Initial Calibration

Initial calibration was performed using required standard concentrations.

Percent relative standard deviations (%RSD) were less than or equal to 30.0% for all calibration check compounds and less than or equal to 50.0% for all other compounds.

Average relative response factors (RRF) for all volatile target compounds and system performance check compounds (SPCCs) were within method and validation criteria.

IV. Continuing Calibration

Continuing calibration was performed at the required frequencies.

All of the continuing calibration percent differences (%D) between the initial calibration RRF and the continuing calibration RRF were less than or equal to 25.0% for all calibration check compounds and less than or equal to 50.0% for all other compounds.

All of the continuing calibration RRF values were within method and validation criteria.

V. Blanks

Method blanks were reviewed for each matrix as applicable. No volatile contaminants were found in the method blanks.

VI. Surrogate Spikes

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

VII. Matrix Spike/Matrix Spike Duplicates

The laboratory has indicated that there were no matrix spike (MS) and matrix spike duplicate (MSD) analyses specified for the samples in this SDG, and therefore matrix spike and matrix spike duplicate analyses were not performed for this SDG.

VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

IX. Regional Quality Assurance and Quality Control

Not applicable.

X. Internal Standards

All internal standard areas and retention times were within QC limits.

XI. Target Compound Identifications

Raw data were not reviewed for this SDG.

XII. Compound Quantitation and CRQLs

Raw data were not reviewed for this SDG.

XIII. Tentatively Identified Compounds (TICs)

Raw data were not reviewed for this SDG.

XIV. System Performance

Raw data were not reviewed for this SDG.

XV. Overall Assessment of Data

Data flags have been summarized at the end of the report.

XVI. Field Duplicates

No field duplicates were identified in this SDG.

XVII. Field Blanks

Sample 18609-3687 was identified as a trip blank. No volatile contaminants were found in this blank.

MCAS El Toro
Volatiles - Data Qualification Summary - SDG 00K238

No Sample Data Qualified in this SDG

MCAS El Toro
Volatiles - Laboratory Blank Data Qualification Summary - SDG 00K238

No Sample Data Qualified in this SDG

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: MCAS El Toro

Collection Date: November 28, 2000

LDC Report Date: January 2, 2001

Matrix: Water

Parameters: Metals

Validation Level: NFESC Level C

Laboratory: EMAX Laboratories, Inc.

Sample Delivery Group (SDG): 00K238

Sample Identification

18609-3688
18609-3689
18609-3690

Introduction

This data review covers 3 water samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Methods 6010 and 7000 for Metals. The metals analyzed were Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Manganese, Magnesium, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Vanadium, and Zinc.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review (February 1994) as there are no current guidelines for the methods stated above.

A table summarizing all data qualification flags is provided at the end of this report. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from specified protocols or is of technical advisory nature.

Blanks are summarized in Section III.

Field duplicates are summarized in Section XIII.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Calibration

An initial calibration was performed.

The frequency and analysis criteria of the initial calibration verification (ICV) and continuing calibration verification (CCV) were met.

III. Blanks

Method blanks were reviewed for each matrix as applicable.

Data qualification by the initial, continuing and preparation blanks (ICB/CCB/PBs) was based on the maximum contaminant concentration in the ICB/CCB/PBs in the analysis of each analyte. No contaminant concentrations were found above the reporting limit in the initial, continuing and preparation blanks with the following exceptions:

Method Blank ID	Analyte	Maximum Concentration	Associated Samples
PB (prep blank)	Chromium	6.2 ug/L	All samples in SDG 00K238
ICB/CCB	Aluminum Barium Beryllium Chromium Copper Iron Magnesium Manganese Potassium Silver Vanadium	33.7 ug/L 1.16 ug/L 0.29 ug/L 4.08 ug/L 3.65 ug/L 6.10 ug/L 31.8 ug/L 13.6 ug/L 2029 ug/L 5.48 ug/L 2.62 ug/L	All samples in SDG 00K238

Sample concentrations were compared to the maximum contaminant concentrations detected in the ICB/CCB/PBs. The sample concentrations were either not detected or were significantly greater (>5X blank contaminants) than the concentrations found in the associated method blanks with the following exceptions:

Sample	Analyte	Reported Concentration	Modified Final Concentration
18609-3688	Chromium Magnesium	7.99 ug/L 39.3 ug/L	7.99U ug/L 39.3U ug/L

Sample	Analyte	Reported Concentration	Modified Final Concentration
18609-3689	Chromium Potassium Vanadium	6.24 ug/L 3940 ug/L 10.2 ug/L	6.24U ug/L 3940U ug/L 10.2U ug/L
18609-3690	Chromium Potassium Vanadium	6.05 ug/L 5410 ug/L 11.7 ug/L	6.05U ug/L 5410U ug/L 11.7U ug/L

IV. ICP Interference Check Sample (ICS) Analysis

The frequency of analysis was met.

The criteria for analysis were met.

V. Matrix Spike Analysis

The laboratory has indicated that there were no matrix spike (MS) and matrix spike duplicate (MSD) analyses specified for the samples in this SDG, and therefore matrix spike and matrix spike duplicate analyses were not performed for this SDG.

VI. Duplicate Sample Analysis

Duplicate (DUP) sample analyses were reviewed for each matrix as applicable.

VII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

VIII. Internal Standards (ICP-MS)

ICP-MS was not utilized in this SDG.

IX. Furnace Atomic Absorption QC

Graphite furnace atomic absorption was not utilized in this SDG.

X. ICP Serial Dilution

Not required by the method.

XI. Sample Result Verification

Raw data were not reviewed for this SDG.

XII. Overall Assessment of Data

Data flags have been summarized at the end of this report.

XIII. Field Duplicates

No field duplicates were identified in this SDG.

XIV. Field Blanks

No field blanks were identified in this SDG.

MCAS El Toro
Metals - Data Qualification Summary - SDG 00K238

No Sample Data Qualified in this SDG

MCAS El Toro
Metals - Laboratory Blank Data Qualification Summary - SDG 00K238

SDG	Sample	Analyte	Modified Final Concentration	A or P
00K238	18609-3688	Chromium Magnesium	7.99U ug/L 39.3U ug/L	A
00K238	18609-3689	Chromium Potassium Vanadium	6.24U ug/L 3940U ug/L 10.2U ug/L	A
00K238	18609-3690	Chromium Potassium Vanadium	6.05U ug/L 5410U ug/L 11.7U ug/L	A

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: MCAS El Toro

Collection Date: November 28, 2000

LDC Report Date: January 2, 2001

Matrix: Water

Parameters: Wet Chemistry

Validation Level: NFESC Level C

Laboratory: EMAX Laboratories, Inc.

Sample Delivery Group (SDG): 00K238

Sample Identification

18609-3688
18609-3689
18609-3690
18609-3688MS
18609-3688DUP
18609-3690MS
18609-3690DUP

Introduction

This data review covers 7 water samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA Method 150.1 for pH, EPA Method 160.1 for Total Dissolved Solids, EPA Method 300.0 for Nitrate/Nitrite as Nitrogen, Sulfate, and Orthophosphate, EPA Method 310.1 for Alkalinity, and EPA Method 351.3 for Total Kjeldahl Nitrogen.

The review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review (February 1994) as there are no current guidelines for the methods stated above.

A table summarizing all data qualification is provided at the end of this report. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Blank results are summarized in Section III.

Field duplicates are summarized in Section VII.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met with the following exceptions:

Sample	Analyte	Total Time From Sample Collection Until Analysis	Required Holding Time From Sample Collection Until Analysis	Flag	A or P
18609-3689 18609-3690 18609-3690MS 18609-3690DUP	Orthophosphate	5 days	48 hours	J (all detects) R (all non-detects)	P

Non-detected sample concentrations were qualified as unusable (R) due to a gross exceedance (>2X) of holding time.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Calibration

a. Initial Calibration

All criteria for the initial calibration of each method were met with the following exceptions:

Sample	Analyte	Finding	Criteria	Flag	A or P
All samples in SDG 00K238	Sulfate Nitrate/Nitrite as N Orthophosphate Total kjeldahl nitrogen	A blank was not used to establish the calibration curve.	A blank must be used to establish the calibration curve.	None None None None	P

b. Calibration Verification

Calibration verification frequency and analysis criteria were met for each method when applicable.

III. Blanks

Method blanks were reviewed for each matrix as applicable. No contaminant concentrations were found in the method blanks.

IV. Accuracy and Precision Data

a. Matrix Spike/(Matrix Spike) Duplicates

Matrix spike (MS) samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

Duplicate (DUP) sample analyses were reviewed for each matrix as applicable. Relative percent differences (RPD) were within QC limits.

b. Laboratory Control Samples

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

V. Sample Result Verification

Raw data were not reviewed for this SDG.

VI. Overall Assessment of Data

Data flags are summarized at the end of this report.

VII. Field Duplicates

No field duplicates were identified in this SDG.

VIII. Field Blanks

No field blanks were identified in this SDG.

MCAS El Toro
Wet Chemistry - Data Qualification Summary - SDG 00K238

SDG	Sample	Analyte	Flag	A or P	Reason
00K238	18609-3689 18609-3690	Orthophosphate	J (all detects) R (all non-detects)	P	Technical holding times
00K238	18609-3688 18609-3689 18609-3690	Nitrate/Nitrite as N Sulfate Orthophosphate Total kjeldahl nitrogen	None None None None	P	Initial calibration

MCAS El Toro
Wet Chemistry - Laboratory Blank Data Qualification Summary - SDG 00K238

No Sample Data Qualified in this SDG

the IT group

IT Corporation
2790 Mosside Blvd.
Monroeville, PA 15146-2792
(412)372-7701

CHAIN-OF-CUSTODY RECORD

PROJECT DATA MANAGER'S COPY

A 12380

FORM 0019 REV. 9-99

Tank Farm 398 - GW

IT'S LAB COORDINATOR: M. Concepcion	LAB COORDINATOR'S PHONE: 949-660-7550	LAB COORDINATOR'S FAX: 949-475-5433	LABORATORY SERVICE ID: 00K253	LABORATORY CONTACT: EMAX	MAIL REPORT (COMPANY NAME): IT Group
PROJECT NAME: UST 398	PROJECT LOCATION: MCAS El Toro, CA	PROJECT NUMBER: 18609	LABORATORY PHONE: 310-618-8889	LABORATORY FAX: 310-618-0818	RECIPIENT NAME: Dwayne Ishida
PROJECT CONTACT: M. Concepcion	PROJECT PHONE NUMBER: 949-451-1666	PROJECT FAX: 949-451-1672	LABORATORY ADDRESS: ~~310 M~~ 630 Maple Ave.		ADDRESS: 3347 Michelson #200
PROJECT ADDRESS: Bldg. 311, MCAS El Toro	CITY, STATE AND ZIP CODE: Santa Ana, CA 92708	CLIENT: SWDIV	CITY, STATE AND ZIP CODE: Torrance, CA 92705		CITY, STATE AND ZIP CODE: Irvine, CA 92612
PROJECT MANAGER: D. Rawal	PROJECT MANAGER'S PHONE: 949-660-7576	PROJECT MANAGER'S FAX: 949-4748709			

Item	Sample Identifier	Matrix	Date	Time	Preserved	# of Cont.	QC Level	T.A.T.	Analyses: TPHg (8015)	VOC (8210)	TPHd (8015)	JPS	metals	pH, TDS, SO4, PO4	Alkalinity	NO4, TKN	Comments
1	18609-3694	W	11-29-00	0800	X	13	3	5d	X	X	X	X	X	X	X	X	TPHg + VOC w/ HCl; metals w/ HNO3; NO4 + TKN w/ H2SO4
2	18609-3696	W	11-29-00	0730	X	2	3	5d	X	X							TRIP BLANK
3	18609-3697	W	11-29-00	0905	X	13	3	5d	X	X	X	X	X	X	X	X	TPHg + VOC w/ HCl; metals w/ HNO3; NO4 + TKN w/ H2SO4
4	18609-3698	W	11-29-00	1245	X	13	3	5d	X	X	X	X	X	X	X	X	TPHg + VOC w/ HCl; metals w/ HNO3; NO4 + TKN w/ H2SO4
5	18609-3695	W	11-29-00	1415	X	13	3	5d	X	X	X	X	X	X	X	X	ARCHIVE/HOLD! TPHg + VOC w/ HCl; metals w/ HNO3; NO4 + TKN w/ H2SO4
6																	
7																	
8																	
9																	
10																	

SAMPLES COLLECTED BY: Carl J. Lind

COURIER AND AIR BILL NUMBER: Courier

COOLER TEMPERATURE UPON RECEIPT:

RELINQUISHED BY	RECEIVED BY	DATE	TIME	SAMPLE'S CONDITION UPON RECEIPT
Carl J. Lind	[signature]	11-29-00	1515	

Distribution: White - Laboratory (To be returned with Analytical Report); Goldenrod - Project File; Manilla - Project Data Manager

Project Information Section For Project Personnel Only Do Not Submit to Laboratory

Tank Farm 398-GW

Sample Point Location	Sample Type: G	C	F	QC
398-MW-28 Dup.	X			X
11-29-00 Tripblank	X			X
398-MW-28 Reg.	X			
398-MW-29	X			
11-29-00 Equipment Rinseate	X			X

Comments: due 12/7/00 rec'd 12/8/00

Sample Type: G - Grab, C - Composite, F - Field Sample, QC - Quality Control Sample

AV

6261

5785B

EMAX
LABORATORIES, INC.
630 Maple Ave.
Torrance, CA 90503
Telephone: (310) 618-8889
Fax: (310) 618-0818

Date: 12-18-2000
EMAX Batch No.: 00K253

Attn: Dwayne Ishida

IT Corporation
3347 Michelson Dr. # 200
Irvine CA 92612

Subject: Laboratory Report
Project: MCAS El Toro/18609/D.O. 70

Enclosed is the Laboratory report for samples received on 11/29/00. The data reported include :

Sample ID	Control #	Col Date	Matrix	Analysis
18609-3694	K253-01	11/29/00	WATER	TPH GASOLINE
				VOLATILE ORGANICS BY GC/MS
				TPH DIESEL
				MERCURY
				METALS CAM
				PH
				SOLIDS TOTAL DISSOLVED
				SULFATE BY IC
				PHOSPHATE-P
				ALKALINITY
				NITRATE-N BY IC
				TKN
18609-3696	K253-02	11/29/00	WATER	TPH GASOLINE
				VOLATILE ORGANICS BY GC/MS
18609-3697	K253-03	11/29/00	WATER	TPH GASOLINE
				VOLATILE ORGANICS BY GC/MS
				TPH DIESEL
				MERCURY
				METALS CAM

B

Sample ID	Control #	Col Date	Matrix	Analysis
				PH
				SOLIDS TOTAL DISSOLVED
				SULFATE BY IC
				PHOSPHATE-P
				ALKALINITY
				NITRATE-N BY IC
				TKN
18609-3698	K253-04	11/29/00	WATER	TPH GASOLINE
				VOLATILE ORGANICS BY GC/MS
				TPH DIESEL
				MERCURY
				METALS
				PH
				SOLIDS TOTAL DISSOLVED
				SULFATE BY IC
				PHOSPHATE-P
				ALKALINITY
				NITRATE-N BY IC
				TKN
18609-3695	K253-05	11/29/00	WATER	HOLD

The results are summarized on the following pages.

Please feel free to call if you have any questions concerning these results.

Sincerely yours,

Kam Y. Pang, Ph.D.
Laboratory Director

EMAX LABORATORIES, INC., 630 Maple Ave., Torrance, CA 90503 TEL: (310) 618-8889 FAX: (310) 618-0818

METHOD M8015
TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

Client	: IT CORPORATION	Date Collected:	11/29/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	11/29/00
Batch No.	: 00K253	Date Extracted:	11/30/00 13:45
Sample ID:	18609-3694	Date Analyzed:	12/01/00 12:57
Lab Samp ID:	K253-01	Dilution Factor:	1.03
Lab File ID:	TK09112A	Matrix :	WATER
Ext Btch ID:	DSK036W	% Moisture :	NA
Calib. Ref.:	TK09104A	Instrument ID :	GCT050

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
DIESEL	ND	.1	.069
JP5	ND	.52	.13

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
BROMOBENZENE	112	65-135
HEXACOSANE	104	60-145

QC LIMIT : (SOIL) 60-140 55-150
QC LIMIT : (WATER) 65-135 60-145
SURR1 : Bromobenzene
SURR2 : Hexacosane
RL : Reporting Limit

METHOD M8015
TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

ient	: IT CORPORATION	Date Collected:	11/29/00
oject	: MCAS EL TORO/18609/D.O. 70	Date Received:	11/29/00
Batch No.	: 00K253	Date Extracted:	11/30/00 13:45
Sample ID:	18609-~~3692~~ 3697	Date Analyzed:	12/01/00 13:45
Lab Samp ID:	K253-03	Dilution Factor:	1
Lab File ID:	TK09113A	Matrix :	WATER
Ext Btch ID:	DSK036W	% Moisture :	NA
Calib. Ref.:	TK09104A	Instrument ID :	GCT050

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
DIESEL	ND	.1	.067
JP5 *	.19	.5	.13

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
BROMOBENZENE	100	65-135
HEXACOSANE	94	60-145

QC LIMIT : (SOIL) 60-140 55-150
QC LIMIT : (WATER) 65-135 60-145
SURR1 : Bromobenzene
SURR2 : Hexacosane
RL : Reporting Limit
* : JP5 like pattern

METHOD M8015
TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

Client	: IT CORPORATION	Date Collected:	11/29/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	11/29/00
Batch No.	: 00K253	Date Extracted:	11/30/00 13:45
Sample ID:	18609-~~3695~~ MG 3698	Date Analyzed:	12/01/00 14:33
Lab Samp ID:	K253-04	Dilution Factor:	1
Lab File ID:	TK09114A	Matrix :	WATER
Ext Btch ID:	DSK036W	% Moisture :	NA
Calib. Ref.:	TK09104A	Instrument ID :	GCT050

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
DIESEL	ND	.1	.067
JP5	ND	.5	.13

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
BROMOBENZENE	105	65-135
HEXACOSANE	102	60-145

QC LIMIT : (SOIL) 60-140 55-150
QC LIMIT : (WATER) 65-135 60-145
SURR1 : Bromobenzene
SURR2 : Hexacosane
RL : Reporting Limit

METHOD M8015
TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

lient	: IT CORPORATION	Date Collected:	NA
roject	: MCAS EL TORO/18609/D.O. 70	Date Received:	11/30/00
Batch No.	: 00K253	Date Extracted:	11/30/00 13:45
Sample ID:	MBLK1W	Date Analyzed:	12/01/00 07:45
Lab Samp ID:	DSK036WB	Dilution Factor:	1
Lab File ID:	TK09106A	Matrix :	WATER
Ext Btch ID:	DSK036W	% Moisture :	NA
Calib. Ref.:	TK09104A	Instrument ID :	GCT050

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
DIESEL	ND	.1	.067
JP5	ND	.5	.13

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
BROMOBENZENE	109	65-135
HEXACOSANE	102	60-145

QC LIMIT : (SOIL) 60-140 55-150
QC LIMIT : (WATER) 65-135 60-145
SURR1 : Bromobenzene
SURR2 Hexacosane
RL : Reporting Limit

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
BATCH NO.: 00K253
METHOD: METHOD M8015

MATRIX:	WATER			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK1W				
LAB SAMP ID:	DSK036WB	DSK036WL	DSK036WC		
LAB FILE ID:	TK09106A	TK09107A	TK09108A		
DATE EXTRACTED:	11/30/0013:45	11/30/0013:45	11/30/0013:45	DATE COLLECTED:	NA
DATE ANALYZED:	12/01/0007:45	12/01/0008:33	12/01/0009:21	DATE RECEIVED:	11/30/00
PREP. BATCH:	DSK036W	DSK036W	DSK036W		
CALIB. REF:	TK09104A	TK09104A	TK09104A		

ACCESSION:

PARAMETER	BLNK RSLT (mg/L)	SPIKE AMT (mg/L)	BS RSLT (mg/L)	BS % REC	SPIKE AMT (mg/L)	BSD RSLT (mg/L)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
Diesel	ND	5	4.69	94	5	5.23	105	11	61-143	30

SURROGATE PARAMETER	SPIKE AMT (mg/L)	BS RSLT (mg/L)	BS % REC	SPIKE AMT (mg/L)	BSD RSLT (mg/L)	BSD % REC	QC LIMIT (%)
Bromobenzene	1	1.11	111	1	1.15	115	65-135
Hexacosane	.25	.254	102	.25	.256	103	60-145

METHOD 5030B/M8015
TOTAL PETROLEUM HYDROCARBONS BY PURGE & TRAP

Client : IT CORPORATION
Project : MCAS EL TORO/18609/D.O. 70
Batch No. : 00K253

Matrix : WATER
Instrument ID : GCT039

SAMPLE ID	EMAX SAMPLE ID	RESULTS (mg/L)	SURR (%)	DLF	MOIST	PRL (mg/L)	MDL (mg/L)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1W	VAK3239B	ND	85	1	NA	.1	.012	11/30/0020:35	11/30/0020:35	EK13015A	EK13014A	VAK3239	NA	11/30/00
LCS1W	VAK3239L	.552	109	1	NA	.1	.012	11/30/0021:43	11/30/0021:43	EK13017A	EK13014A	VAK3239	NA	11/30/00
18609-3694	K253-01	ND	93	1	NA	.1	.012	11/30/0023:58	11/30/0023:58	EK13021A	EK13014A	VAK3239	11/29/00	11/29/00
18609-3696	K253-02	ND	89	1	NA	.1	.012	12/01/0000:32	12/01/0000:32	EK13022A	EK13014A	VAK3239	11/29/00	11/29/00
18609-3696MS	K253-02M	.482	109	1	NA	.1	.012	12/01/0001:06	12/01/0001:06	EK13023A	EK13014A	VAK3239	11/29/00	11/29/00
18609-3696MSD	K253-02S	.465	108	1	NA	.1	.012	12/01/0001:40	12/01/0001:40	EK13024A	EK13014A	VAK3239	11/29/00	11/29/00
18609-3697	K253-03	ND	85	1	NA	.1	.012	12/01/0002:48	12/01/0002:48	EK13026A	EK13025A	VAK3239	11/29/00	11/29/00
18609-3698	K253-04	ND	90	1	NA	.1	.012	12/01/0003:22	12/01/0003:22	EK13027A	EK13025A	VAK3239	11/29/00	11/29/00

SURR : Bromofluorobenzene (W)65-135 (S)60-140
PRL : Reporting Limit
E : Value exceed the upper level of the initial calibration
D : Value from dilution

EMAX QUALITY CONTROL DATA
LCS ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
BATCH NO.: 00K253
METHOD: METHOD 5030B/M8015

==========

MATRIX:	WATER		% MOISTURE:	NA
DILUTION FACTOR:	1	1		
SAMPLE ID:	MBLK1W			
LAB SAMP ID:	VAK3239B	VAK3239L		
LAB FILE ID:	EK13015A	EK13017A		
DATE EXTRACTED:	11/30/0020:35	11/30/0021:43	DATE COLLECTED:	NA
DATE ANALYZED:	11/30/0020:35	11/30/0021:43	DATE RECEIVED:	11/30/00
PREP. BATCH:	VAK3239	VAK3239		
CALIB. REF:	EK13014A	EK13014A		

✓

ACCESSION:

PARAMETER	BLNK RSLT (mg/L)	SPIKE AMT (mg/L)	BS RSLT (mg/L)	BS % REC	QC LIMIT (%)
Gasoline	ND	.55	.552	100	67-136

==========

SURROGATE PARAMETER	SPIKE AMT (mg/L)	BS RSLT (mg/L)	BS % REC	QC LIMIT (%)
Bromofluorobenzene	.02	.0217	109	65-135

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
BATCH NO.: 00K253
METHOD: METHOD 5030B/M8015

MATRIX:	WATER			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	18609-3696				
LAB SAMP ID:	K253-02	K253-02M	K253-02S		
LAB FILE ID:	EK13022A	EK13023A	EK13024A		
DATE EXTRACTED:	12/01/0000:32	12/01/0001:06	12/01/0001:40	DATE COLLECTED:	11/29/00
DATE ANALYZED:	12/01/0000:32	12/01/0001:06	12/01/0001:40	DATE RECEIVED:	11/29/00
PREP. BATCH:	VAK3239	VAK3239	VAK3239		
CALIB. REF:	EK13014A	EK13014A	EK13014A		

ACCESSION:

PARAMETER	SMPL RSLT (mg/L)	SPIKE AMT (mg/L)	MS RSLT (mg/L)	MS % REC	SPIKE AMT (mg/L)	MSD RSLT (mg/L)	MSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
Gasoline	ND	.55	.482	88	.55	.465	84	4	67-136	30

SURROGATE PARAMETER	SPIKE AMT (mg/L)	MS RSLT (mg/L)	MS % REC	SPIKE AMT (mg/L)	MSD RSLT (mg/L)	MSD % REC	QC LIMIT (%)
Bromofluorobenzene	.02	.0218	109	.02	.0216	108	65-135

METHOD 5030A/8260A
VOLATILE ORGANICS BY GC/MS

Client	: IT CORPORATION	Date Collected:	11/29/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	11/29/00
Batch No.	: 00K253	Date Extracted:	12/04/00 20:20
Sample ID:	18609-3694	Date Analyzed:	12/04/00 20:20
Lab Samp ID:	K253-01	Dilution Factor:	1
Lab File ID:	RLP041	Matrix	: WATER
Ext Btch ID:	VOL0202	% Moisture	: NA
Calib. Ref.:	RLP027	Instrument ID	: T-002

PARAMETERS	RESULTS (ug/L)	PRL (ug/L)	MDL (ug/L)
1,1,1-TRICHLOROETHANE	ND	5	.91
1,1,2,2-TETRACHLOROETHANE	ND	5	1.1
1,1,2-TRICHLOROETHANE	ND	5	.83
1,1-DICHLOROETHANE	ND	5	.65
1,1-DICHLOROETHENE	ND	5	.86
1,2-DICHLOROETHANE	ND	5	.95
1,2-DICHLOROPROPANE	ND	5	.73
2-BUTANONE	ND	50	6.7
2-CHLOROETHYLVINYLETHER	ND	50	1.3
2-HEXANONE	ND	50	5.6
4-METHYL-2-PENTANONE	ND	50	3.6
ACETONE	ND	50	9.6
BENZENE	ND	5	.77
BROMODICHLOROMETHANE	ND	5	.82
BROMOFORM	ND	5	.74
BROMOMETHANE	ND	5	1.9
CARBON DISULFIDE	ND	5	.61
CARBON TETRACHLORIDE	ND	5	.83
CHLOROBENZENE	ND	5	1.1
CHLOROETHANE	ND	5	1.7
CHLOROFORM	ND	5	.67
CHLOROMETHANE	ND	5	.67
CIS-1,2-DICHLOROETHENE	ND	5	.79
CIS-1,3-DICHLOROPROPENE	ND	5	.79
DIBROMOCHLOROMETHANE	ND	5	.71
ETHYLBENZENE	ND	5	1
MTBE	ND	10	.77
METHYLENE CHLORIDE	ND	5	1.4
STYRENE	ND	5	.87
TETRACHLOROETHENE	ND	5	1.1
TOLUENE	ND	5	.99
TRANS-1,2-DICHLOROETHENE	ND	5	.73
TRANS-1,3-DICHLOROPROPENE	ND	5	.82
TRICHLOROETHENE	ND	5	.89
VINYL ACETATE	ND	50	1.4
VINYL CHLORIDE	ND	5	2.5
XYLENES	ND	5	3.1

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	96	62-139
BROMOFLUOROBENZENE	103	75-125
TOLUENE-D8	96	75-125

PRL: Project Reporting Limit
* : Out side of QC Limit
J : An estimated value between PRL and MDL
E : Value exceed the upper level of the initial calibration
B : Found in the associated blank
D : Value from dilution analysis

METHOD 5030A/8260A
VOLATILE ORGANICS BY GC/MS

Client	: IT CORPORATION	Date Collected:	11/29/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	11/29/00
Batch No.	: 00K253	Date Extracted:	12/04/00 20:54
Sample ID:	18609-~~3691~~ MS 3696	Date Analyzed:	12/04/00 20:54
Lab Samp ID:	K253-02	Dilution Factor:	1
Lab File ID:	RLP042	Matrix	: WATER
Ext Btch ID:	VOL0202	% Moisture	: NA
Calib. Ref.:	RLP027	Instrument ID	: T-002

PARAMETERS	RESULTS (ug/L)	PRL (ug/L)	MDL (ug/L)
1,1,1-TRICHLOROETHANE	ND	5	.91
1,1,2,2-TETRACHLOROETHANE	ND	5	1.1
1,1,2-TRICHLOROETHANE	ND	5	.83
1,1-DICHLOROETHANE	ND	5	.65
1,1-DICHLOROETHENE	ND	5	.86
1,2-DICHLOROETHANE	ND	5	.95
1,2-DICHLOROPROPANE	ND	5	.73
2-BUTANONE	ND	50	6.7
2-CHLOROETHYLVINYLETHER	ND	50	1.3
2-HEXANONE	ND	50	5.6
4-METHYL-2-PENTANONE	ND	50	3.6
ACETONE	ND	50	9.6
BENZENE	ND	5	.77
BROMODICHLOROMETHANE	ND	5	.82
BROMOFORM	ND	5	.74
BROMOMETHANE	ND	5	1.9
CARBON DISULFIDE	ND	5	.61
CARBON TETRACHLORIDE	ND	5	.83
CHLOROBENZENE	ND	5	1.1
CHLOROETHANE	ND	5	1.7
CHLOROFORM	ND	5	.67
CHLOROMETHANE	ND	5	.67
CIS-1,2-DICHLOROETHENE	ND	5	.79
CIS-1,3-DICHLOROPROPENE	ND	5	.79
DIBROMOCHLOROMETHANE	ND	5	.71
ETHYLBENZENE	ND	5	1
MTBE	ND	10	.77
METHYLENE CHLORIDE	ND	5	1.4
STYRENE	ND	5	.87
TETRACHLOROETHENE	ND	5	1.1
TOLUENE	ND	5	.99
TRANS-1,2-DICHLOROETHENE	ND	5	.73
TRANS-1,3-DICHLOROPROPENE	ND	5	.82
TRICHLOROETHENE	ND	5	.89
VINYL ACETATE	ND	50	1.4
VINYL CHLORIDE	ND	5	2.5
XYLENES	ND	5	3.1

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	95	62-139
BROMOFLUOROBENZENE	101	75-125
TOLUENE-D8	96	75-125

PRL: Project Reporting Limit
* : Out side of QC Limit
J : An estimated value between PRL and MDL
E : Value exceed the upper level of the initial calibration
B : Found in the associated blank
D : Value from dilution analysis

METHOD 5030A/8260A
VOLATILE ORGANICS BY GC/MS

Client	: IT CORPORATION	Date Collected:	11/29/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	11/29/00
Batch No.	: 00K253	Date Extracted:	12/04/00 21:29
Sample ID:	18609-~~3692~~ 3697	Date Analyzed:	12/04/00 21:29
Lab Samp ID:	K253-03	Dilution Factor:	1
Lab File ID:	RLP043	Matrix :	WATER
Ext Btch ID:	VOL0202	% Moisture :	NA
Calib. Ref.:	RLP027	Instrument ID :	T-002

PARAMETERS	RESULTS (ug/L)	PRL (ug/L)	MDL (ug/L)
1,1,1-TRICHLOROETHANE	ND	5	.91
1,1,2,2-TETRACHLOROETHANE	ND	5	1.1
1,1,2-TRICHLOROETHANE	ND	5	.83
1,1-DICHLOROETHANE	ND	5	.65
1,1-DICHLOROETHENE	ND	5	.86
1,2-DICHLOROETHANE	ND	5	.95
1,2-DICHLOROPROPANE	ND	5	.73
2-BUTANONE	ND	50	6.7
2-CHLOROETHYLVINYLETHER	ND	50	1.3
2-HEXANONE	ND	50	5.6
4-METHYL-2-PENTANONE	ND	50	3.6
ACETONE	ND	50	9.6
BENZENE	ND	5	.77
BROMODICHLOROMETHANE	ND	5	.82
BROMOFORM	ND	5	.74
BROMOMETHANE	ND	5	1.9
CARBON DISULFIDE	ND	5	.61
CARBON TETRACHLORIDE	ND	5	.83
CHLOROBENZENE	ND	5	1.1
CHLOROETHANE	ND	5	1.7
CHLOROFORM	ND	5	.67
CHLOROMETHANE	ND	5	.67
CIS-1,2-DICHLOROETHENE	ND	5	.79
CIS-1,3-DICHLOROPROPENE	ND	5	.79
DIBROMOCHLOROMETHANE	ND	5	.71
ETHYLBENZENE	ND	5	1
MTBE	ND	10	.77
METHYLENE CHLORIDE	ND	5	1.4
STYRENE	ND	5	.87
TETRACHLOROETHENE	ND	5	1.1
TOLUENE	ND	5	.99
TRANS-1,2-DICHLOROETHENE	ND	5	.73
TRANS-1,3-DICHLOROPROPENE	ND	5	.82
TRICHLOROETHENE	ND	5	.89
VINYL ACETATE	ND	50	1.4
VINYL CHLORIDE	ND	5	2.5
XYLENES	ND	5	3.1

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	95	62-139
BROMOFLUOROBENZENE	101	75-125
TOLUENE-D8	97	75-125

PRL: Project Reporting Limit
* : Out side of QC Limit
J : An estimated value between PRL and MDL
E : Value exceed the upper level of the initial calibration
B : Found in the associated blank
D : Value from dilution analysis

METHOD 5030A/8260A
VOLATILE ORGANICS BY GC/MS

Client	: IT CORPORATION	Date Collected:	11/29/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	11/29/00
Batch No.	: 00K253	Date Extracted:	12/04/00 22:04
Sample ID:	18609-~~3693~~ 03698	Date Analyzed:	12/04/00 22:04
Lab Samp ID:	K253-04	Dilution Factor:	1
Lab File ID:	RLP044	Matrix :	WATER
Ext Btch ID:	VOL0202	% Moisture :	NA
Calib. Ref.:	RLP027	Instrument ID :	T-002

PARAMETERS	RESULTS (ug/L)	PRL (ug/L)	MDL (ug/L)
1,1,1-TRICHLOROETHANE	ND	5	.91
1,1,2,2-TETRACHLOROETHANE	ND	5	1.1
1,1,2-TRICHLOROETHANE	ND	5	.83
1,1-DICHLOROETHANE	ND	5	.65
1,1-DICHLOROETHENE	ND	5	.86
1,2-DICHLOROETHANE	ND	5	.95
1,2-DICHLOROPROPANE	ND	5	.73
2-BUTANONE	ND	50	6.7
2-CHLOROETHYLVINYLETHER	ND	50	1.3
2-HEXANONE	ND	50	5.6
4-METHYL-2-PENTANONE	ND	50	3.6
ACETONE	ND	50	9.6
BENZENE	ND	5	.77
BROMODICHLOROMETHANE	ND	5	.82
BROMOFORM	ND	5	.74
BROMOMETHANE	ND	5	1.9
CARBON DISULFIDE	ND	5	.61
CARBON TETRACHLORIDE	ND	5	.83
CHLOROBENZENE	ND	5	1.1
CHLOROETHANE	ND	5	1.7
CHLOROFORM	ND	5	.67
CHLOROMETHANE	ND	5	.67
CIS-1,2-DICHLOROETHENE	ND	5	.79
CIS-1,3-DICHLOROPROPENE	ND	5	.79
DIBROMOCHLOROMETHANE	ND	5	.71
ETHYLBENZENE	ND	5	1
MTBE	ND	10	.77
METHYLENE CHLORIDE	ND	5	1.4
STYRENE	ND	5	.87
TETRACHLOROETHENE	ND	5	1.1
TOLUENE	ND	5	.99
TRANS-1,2-DICHLOROETHENE	ND	5	.73
TRANS-1,3-DICHLOROPROPENE	ND	5	.82
TRICHLOROETHENE	ND	5	.89
VINYL ACETATE	ND	50	1.4
VINYL CHLORIDE	ND	5	2.5
XYLENES	ND	5	3.1

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	97	62-139
BROMOFLUOROBENZENE	99	75-125
TOLUENE-D8	97	75-125

PRL: Project Reporting Limit
* : Out side of QC Limit
J : An estimated value between PRL and MDL
E : Value exceed the upper level of the initial calibration
B : Found in the associated blank
D : Value from dilution analysis

METHOD 5030A/8260A
VOLATILE ORGANICS BY GC/MS

Client	: IT CORPORATION	Date Collected:	NA
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	12/04/00
Batch No.	: 00K253	Date Extracted:	12/04/00 15:07
Sample ID:	MBLK1W	Date Analyzed:	12/04/00 15:07
Lab Samp ID:	VOL0202Q	Dilution Factor:	1
Lab File ID:	RLP032	Matrix :	WATER
Ext Btch ID:	VOL0202	% Moisture :	NA
Calib. Ref.:	RLP027	Instrument ID :	T-002

PARAMETERS	RESULTS (ug/L)	PRL (ug/L)	MDL (ug/L)
1,1,1-TRICHLOROETHANE	ND	5	.91
1,1,2,2-TETRACHLOROETHANE	ND	5	1.1
1,1,2-TRICHLOROETHANE	ND	5	.83
1,1-DICHLOROETHANE	ND	5	.65
1,1-DICHLOROETHENE	ND	5	.86
1,2-DICHLOROETHANE	ND	5	.95
1,2-DICHLOROPROPANE	ND	5	.73
2-BUTANONE	ND	50	6.7
2-CHLOROETHYLVINYLETHER	ND	50	1.3
2-HEXANONE	ND	50	5.6
4-METHYL-2-PENTANONE	ND	50	3.6
ACETONE	ND	50	9.6
BENZENE	ND	5	.77
BROMODICHLOROMETHANE	ND	5	.82
BROMOFORM	ND	5	.74
BROMOMETHANE	ND	5	1.9
CARBON DISULFIDE	ND	5	.61
CARBON TETRACHLORIDE	ND	5	.83
CHLOROBENZENE	ND	5	1.1
CHLOROETHANE	ND	5	1.7
CHLOROFORM	ND	5	.67
CHLOROMETHANE	ND	5	.67
CIS-1,2-DICHLOROETHENE	ND	5	.79
CIS-1,3-DICHLOROPROPENE	ND	5	.79
DIBROMOCHLOROMETHANE	ND	5	.71
ETHYLBENZENE	ND	5	1
MTBE	ND	10	.77
METHYLENE CHLORIDE	ND	5	1.4
STYRENE	ND	5	.87
TETRACHLOROETHENE	ND	5	1.1
TOLUENE	ND	5	.99
TRANS-1,2-DICHLOROETHENE	ND	5	.73
TRANS-1,3-DICHLOROPROPENE	ND	5	.82
TRICHLOROETHENE	ND	5	.89
VINYL ACETATE	ND	50	1.4
VINYL CHLORIDE	ND	5	2.5
XYLENES	ND	5	3.1

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	80	62-139
BROMOFLUOROBENZENE	93	75-125
TOLUENE-D8	89	75-125

PRL: Project Reporting Limit
* : Out side of QC Limit
J : An estimated value between PRL and MDL
E : Value exceed the upper level of the initial calibration
B : Found in the associated blank
D : Value from dilution analysis

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
TCH NO.: 00K253
METHOD: METHOD 5030A/8260A

MATRIX:	WATER			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK1W				
LAB SAMP ID:	VOL0202Q	VOL0202L	VOL0202C		
LAB FILE ID:	RLP032	RLP029	RLP030		
DATE EXTRACTED:	12/04/0015:07	12/04/0013:06	12/04/0013:40	DATE COLLECTED:	NA
DATE ANALYZED:	12/04/0015:07	12/04/0013:06	12/04/0013:40	DATE RECEIVED:	12/04/00
PREP. BATCH:	VOL0202	VOL0202	VOL0202		
CALIB. REF:	RLP027	RLP027	RLP027		

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
1,1-Dichloroethene	ND	20	18.9	95	20	19.9	100	5	75-125	20
Benzene	ND	20	20.1	101	20	20	100	0	75-125	20
Chlorobenzene	ND	20	19.8	99	20	19.7	98	1	75-125	20
Toluene	ND	20	19.6	98	20	19.9	99	1	74-125	20
Trichloroethene	ND	20	19.4	97	20	19.5	98	0	71-125	20

SURROGATE PARAMETER	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	QC LIMIT (%)
1,2-Dichlorethane-d4	50	47.4	95	50	47	94	62-139
Bromofluorobenzene	50	50.9	102	50	51.1	102	75-125
Toluene-d8	50	50.3	101	50	50.6	101	75-125

METHOD 3010A/6010B
METALS BY ICP

Client	: IT CORPORATION	Date Collected:	11/29/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	11/29/00
SDG NO.	: 00K253	Date Extracted:	12/01/00 13:30
Sample ID:	18609-3694	Date Analyzed:	12/05/00 20:37
Lab Samp ID:	K253-01	Dilution Factor:	1
Lab File ID:	I07L012038	Matrix :	WATER
Ext Btch ID:	IPL004W	% Moisture :	NA
Calib. Ref.:	I07L012032	Instrument ID :	EMAXTI07

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
Aluminum	56.4J	500	46.3
Antimony	ND	500	27.5
Barium	66.1J	100	1.02
Beryllium	ND	10	.62
Cadmium	ND	10	4.24
Calcium	78700	5000	91.7
Chromium	11.2J	50	4.69
Cobalt	ND	50	9.06
Copper	2.99J	50	2.67
Iron	34.6J	200	10.5
Magnesium	52700	5000	81.2
Manganese	43.2	20	1.49
Molybdenum	24.8J	100	9.34
Nickel	15.5J	150	8.9
Potassium	3520J	5000	1970
Silver	ND	50	4.49
Sodium	81800	5000	417
Vanadium	26.4J	100	3.75
Zinc	7.63J	20	5.8

RL: Reporting Limit

METHOD 3010A/6010B
METALS BY TRACE-ICP

Client	: IT CORPORATION	Date Collected:	11/29/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	11/29/00
SDG NO.	: 00K253	Date Extracted:	12/01/00 13:30
Sample ID:	18609-3694	Date Analyzed:	12/05/00 18:46
Lab Samp ID:	K253-01	Dilution Factor:	1
Lab File ID:	I31L007016	Matrix :	WATER
Ext Btch ID:	IPL004W	% Moisture :	NA
Calib. Ref.:	I31L007008	Instrument ID :	EMAXTI31

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
Arsenic	3.72J	10	2.43
Lead	ND	10	1.33
Selenium	3.04J	10	1.6
Thallium	ND	400	4.74

RL: Reporting Limit

METHOD 3010A/6010B
METALS BY ICP

Client	: IT CORPORATION	Date Collected:	11/29/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	11/29/00
SDG NO.	: 00K253	Date Extracted:	12/01/00 13:30
Sample ID:	18609-3697	Date Analyzed:	12/05/00 20:42
Lab Samp ID:	K253-03	Dilution Factor:	1
Lab File ID:	I07L012039	Matrix :	WATER
Ext Btch ID:	IPL004W	% Moisture :	NA
Calib. Ref.:	I07L012032	Instrument ID :	EMAXTI07

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
Aluminum	ND	500	46.3
Antimony	ND	500	27.5
Barium	66.9J	100	1.02
Beryllium	ND	10	.62
Cadmium	ND	10	4.24
Calcium	81400	5000	91.7
Chromium	7.62J	50	4.69
Cobalt	ND	50	9.06
Copper	ND	50	2.67
Iron	15J	200	10.5
Magnesium	55400	5000	81.2
Manganese	42.9	20	1.49
Molybdenum	21.6J	100	9.34
Nickel	9.79J	150	8.9
Potassium	3680J	5000	1970
Silver	ND	50	4.49
Sodium	82200	5000	417
Vanadium	26.1J	100	3.75
Zinc	7.89J	20	5.8

RL: Reporting Limit

METHOD 3010A/6010B
METALS BY TRACE-ICP

Client	: IT CORPORATION	Date Collected:	11/29/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	11/29/00
SDG NO.	: 00K253	Date Extracted:	12/01/00 13:30
Sample ID:	18609-3697	Date Analyzed:	12/05/00 18:52
Lab Samp ID:	K253-03	Dilution Factor:	1
Lab File ID:	I31L007017	Matrix :	WATER
Ext Btch ID:	IPL004W	% Moisture :	NA
Calib. Ref.:	I31L007008	Instrument ID :	EMAXTI31

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
Arsenic	ND	10	2.43
Lead	ND	10	1.33
Selenium	2.06J	10	1.6
Thallium	ND	400	4.74

RL: Reporting Limit

METHOD 3010A/6010B
METALS BY ICP

Client	: IT CORPORATION	Date Collected:	11/29/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	11/29/00
SDG NO.	: 00K253	Date Extracted:	12/01/00 13:30
Sample ID:	18609-3698	Date Analyzed:	12/05/00 20:46
Lab Samp ID:	K253-04	Dilution Factor:	1
Lab File ID:	I07L012040	Matrix :	WATER
Ext Btch ID:	IPL004W	% Moisture :	NA
Calib. Ref.:	I07L012032	Instrument ID :	EMAXTI07

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
Aluminum	60.1J	500	46.3
Antimony	ND	500	27.5
Barium	79.1J	100	1.02
Beryllium	ND	10	.62
Cadmium	ND	10	4.24
Calcium	62700	5000	91.7
Chromium	11.5J	50	4.69
Cobalt	ND	50	9.06
Copper	4.98J	50	2.67
Iron	17.5J	200	10.5
Magnesium	43900	5000	81.2
Manganese	175	20	1.49
Molybdenum	39.2J	100	9.34
Nickel	ND	150	8.9
Potassium	3510J	5000	1970
Silver	ND	50	4.49
Sodium	78000	5000	417
Vanadium	15.6J	100	3.75
Zinc	9.73J	20	5.8

RL: Reporting Limit

METHOD 3010A/6010B
METALS BY TRACE-ICP

Client	: IT CORPORATION	Date Collected:	11/29/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	11/29/00
SDG NO.	: 00K253	Date Extracted:	12/01/00 13:30
Sample ID:	18609-3698	Date Analyzed:	12/08/00 15:38
Lab Samp ID:	K253-04	Dilution Factor:	1
Lab File ID:	I31L015024	Matrix :	WATER
Ext Btch ID:	IPL004W	% Moisture :	NA
Calib. Ref.:	I31L015020	Instrument ID :	EMAXTI31

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
Arsenic	2.93J	10	2.43
Lead	ND	10	1.33
Selenium	4.72J	10	1.6
Thallium	ND	400	4.74

RL: Reporting Limit

METHOD 3010A/6010B
METALS BY ICP

Client	: IT CORPORATION	Date Collected:	NA
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	12/01/00
SDG NO.	: 00K253	Date Extracted:	12/01/00 13:30
Sample ID:	MBLK1W	Date Analyzed:	12/05/00 19:52
Lab Samp ID:	IPL004WB	Dilution Factor:	1
Lab File ID:	I07L012028	Matrix :	WATER
Ext Btch ID:	IPL004W	% Moisture :	NA
Calib. Ref.:	I07L012020	Instrument ID :	EMAXTI07

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
Aluminum	ND	500	46.3
Antimony	ND	500	27.5
Barium	ND	100	1.02
Beryllium	ND	10	.62
Cadmium	ND	10	4.24
Calcium	ND	5000	91.7
Chromium	6.2J	50	4.69
Cobalt	ND	50	9.06
Copper	ND	50	2.67
Iron	ND	200	10.5
Magnesium	ND	5000	81.2
Manganese	ND	20	1.49
Molybdenum	ND	100	9.34
Nickel	ND	150	8.9
Potassium	ND	5000	1970
Silver	ND	50	4.49
Sodium	ND	5000	417
Vanadium	ND	100	3.75
Zinc	ND	20	5.8

RL: Reporting Limit

METHOD 3010A/6010B
METALS BY TRACE-ICP

Client	: IT CORPORATION	Date Collected:	NA
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	12/01/00
SDG NO.	: 00K253	Date Extracted:	12/01/00 13:30
Sample ID:	MBLK1W	Date Analyzed:	12/05/00 18:14
Lab Samp ID:	IPL004WB	Dilution Factor:	1
Lab File ID:	I31L007010	Matrix :	WATER
Ext Btch ID:	IPL004W	% Moisture :	NA
Calib. Ref.:	I31L007008	Instrument ID :	EMAXTI31

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
Arsenic	ND	10	2.43
Lead	ND	10	1.33
Selenium	ND	10	1.6
Thallium	ND	400	4.74

RL: Reporting Limit

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
SDG NO.: 00K253
METHOD: METHOD 3010A/6010B

MATRIX:	WATER			% MOISTURE:	NA
DILTN FACTR:	1	1	1		
SAMPLE ID:	MBLK1W				
CONTROL NO.:	IPL004WB	IPL004WL	IPL004WC		
LAB FILE ID:	I07L012028	I07L012029	I07L012030		
DATIME EXTRCTD:	12/01/0013:30	12/01/0013:30	12/01/0013:30	DATE COLLECTED:	NA
DATIME ANALYZD:	12/05/0019:52	12/05/0019:57	12/05/0020:01	DATE RECEIVED:	12/01/00
PREP. BATCH:	IPL004W	IPL004W	IPL004W		
CALIB. REF:	I07L012020	I07L012020	I07L012020		

ACCESSION:

PARAMETER	BLNK RSLT ug/L	SPIKE AMT ug/L	BS RSLT ug/L	BS % REC	SPIKE AMT ug/L	BSD RSLT ug/L	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Aluminum	ND	10000	9690	97	10000	10200	102	5	80-120	20
Antimony	ND	5000	4730	95	5000	4810	96	2	80-120	20
Barium	ND	1000	933	93	1000	980	98	5	80-120	20
Beryllium	ND	1000	935	94	1000	985	99	5	80-120	20
Cadmium	ND	1000	918	92	1000	973	97	6	80-120	20
Calcium	ND	50000	47800	96	50000	43200	86	10	80-120	20
Chromium	6.2J	1000	936	93	1000	979	97	4	80-120	20
Cobalt	ND	1000	931	93	1000	974	97	4	80-120	20
Copper	ND	1000	929	93	1000	977	98	5	80-120	20
Iron	ND	10000	9720	97	10000	10200	102	5	80-120	20
Magnesium	ND	50000	48700	97	50000	43100	86	12	80-120	20
Manganese	ND	1000	905	90	1000	953	95	5	80-120	20
Molybdenum	ND	1000	940	94	1000	834	83	12	80-120	20
Nickel	ND	1000	928	93	1000	985	98	6	80-120	2
Potassium	ND	50000	47500	95	50000	43200	86	10	80-120	20
Silver	ND	1000	953	95	1000	1000	100	5	80-120	20
Sodium	ND	50000	47200	94	50000	42800	86	10	80-120	20
Vanadium	ND	1000	929	93	1000	963	96	4	80-120	20
Zinc	ND	1000	925	93	1000	984	98	6	80-120	20

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
NO.: 00K253
METHOD: METHOD 3010A/6010B

MATRIX:	WATER			% MOISTURE:	NA
DILTN FACTR:	1	1	1		
SAMPLE ID:	MBLK1W				
CONTROL NO.:	IPL004WB	IPL004WL	IPL004WC		
LAB FILE ID:	I31L007010	I31L007011	I31L007012		
DATIME EXTRCTD:	12/01/0013:30	12/01/0013:30	12/01/0013:30	DATE COLLECTED:	NA
DATIME ANALYZD:	12/05/0018:14	12/05/0018:20	12/05/0018:24	DATE RECEIVED:	12/01/00
PREP. BATCH:	IPL004W	IPL004W	IPL004W		
CALIB. REF:	I31L007008	I31L007008	I31L007008		

ACCESSION:

PARAMETER	BLNK RSLT ug/L	SPIKE AMT ug/L	BS RSLT ug/L	BS % REC	SPIKE AMT ug/L	BSD RSLT ug/L	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Arsenic	ND	1000	963	96	1000	1010	101	5	80-120	20
Lead	ND	1000	923	92	1000	969	97	5	80-120	20
Selenium	ND	1000	995	99	1000	1030	103	3	80-120	20
Thallium	ND	1000	999	100	1000	1050	105	5	80-120	20

METHOD 7470A
MERCURY BY COLD VAPOR

Client : IT CORPORATION
Project : MCAS EL TORO/18609/D.O. 70
Batch No. : OOK253

Matrix : WATER
Instrument ID : TI023

SAMPLE ID	EMAX SAMPLE ID	RESULTS (ug/L)	DLF	MOIST	RL (ug/L)	MDL (ug/L)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1W	HGK047WB	ND	1	NA	.2	.129	12/01/0013:01	11/30/0018:00	MOOK048009	MOOK048006	HGK047W	NA	11/30/00
LCS1W	HGK047WL	5.46	1	NA	.2	.129	12/01/0013:04	11/30/0018:00	MOOK048010	MOOK048006	HGK047W	NA	11/30/00
LCD1W	HGK047WC	5.41	1	NA	.2	.129	12/01/0013:07	11/30/0018:00	MOOK048011	MOOK048006	HGK047W	NA	11/30/00
18609-3694	K253-01	ND	1	NA	.2	.129	12/01/0013:44	11/30/0018:00	MOOK048024	MOOK048018	HGK047W	11/29/00	11/29/00
18609-~~3692~~ MG 3697	K253-03	ND	1	NA	.2	.129	12/01/0013:47	11/30/0018:00	MOOK048025	MOOK048018	HGK047W	11/29/00	11/29/00
18609-~~3693~~ MG 3698	K253-04	ND	1	NA	.2	.129	12/01/0013:50	11/30/0018:00	MOOK048026	MOOK048018	HGK047W	11/29/00	11/29/00

RL: Reporting Limit

1029

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
SDG NO.: 00K253
METHOD: METHOD 7470A

MATRIX:	WATER			% MOISTURE:	NA
DILTN FACTR:	1	1	1		
SAMPLE ID:	MBLK1W				
CONTROL NO.:	HGK047WB	HGK047WL	HGK047WC		
LAB FILE ID:	M00K048009	M00K048010	M00K048011		
DATIME EXTRCTD:	11/30/0018:00	11/30/0018:00	11/30/0018:00	DATE COLLECTED:	NA
DATIME ANALYZD:	12/01/0013:01	12/01/0013:04	12/01/0013:07	DATE RECEIVED:	11/30/00
PREP. BATCH:	HGK047W	HGK047W	HGK047W		
CALIB. REF:	M00K048006	M00K048006	M00K048006		

ACCESSION:

PARAMETER	BLNK RSLT ug/L	SPIKE AMT ug/L	BS RSLT ug/L	BS % REC	SPIKE AMT ug/L	BSD RSLT ug/L	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Mercury	ND	5	5.46	109	5	5.41	108	1	77-120	15

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
SDG NO.: 00K253
METHOD: METHOD 7470A

MATRIX:	WATER			% MOISTURE:	NA
DILTN FACTR:	1	1	1		
SAMPLE ID:	45-07-SW-00				
CONTROL NO.:	K172-01	K172-01M	K172-01S		
LAB FILE ID:	M00K048012	M00K048013	M00K048014		
DATIME EXTRCTD:	NA	NA	NA	DATE COLLECTED:	11/16/00
DATIME ANALYZD:	12/01/0013:10	12/01/0013:12	12/01/0013:15	DATE RECEIVED:	11/17/00
PREP. BATCH:	HGK047W	HGK047W	HGK047W		
CALIB. REF:	M00K048006	M00K048006	M00K048006		

ACCESSION:

PARAMETER	SMPL RSLT ug/L	SPIKE AMT ug/L	MS RSLT ug/L	MS % REC	SPIKE AMT ug/L	MSD RSLT ug/L	MSD % REC	RPD %	QC LIMIT %	MAX RPD %
Mercury	ND	5	5.38	108	5	5.4	108	0	77-120	15

7031

METHOD 300.0
NITRATE/NITRITE-N

Client : IT CORPORATION
Project : MCAS EL TORO/18609/D.O. 70
Batch No. : 00K253

Matrix : WATER
Instrument ID : TI006

SAMPLE ID	EMAX SAMPLE ID	RESULTS (mg/L)	DLF	MOIST	RL (mg/L)	MDL (mg/L)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1W	ICL011WB	ND	1	NA	.1	.0206	12/06/0020:40	NA	AL06028A	AL06025A	ICL011W	NA	NA
LCS1W	ICL011WL	4.06	1	NA	.1	.0206	12/06/0020:57	NA	AL06029A	AL06025A	ICL011W	NA	NA
LCD1W	ICL011WC	4.01	1	NA	.1	.0206	12/06/0021:14	NA	AL06030A	AL06025A	ICL011W	NA	NA
18609-3694	K253-01	5.38	10	NA	1	.206	12/06/0021:31	NA	AL06031A	AL06025A	ICL011W	11/29/00	11/29/00
18609-3697	K253-03	5.59	10	NA	1	.206	12/06/0021:48	NA	AL06032A	AL06025A	ICL011W	11/29/00	11/29/00
18609-3698	K253-04	14.6	10	NA	1	.206	12/06/0022:05	NA	AL06033A	AL06025A	ICL011W	11/29/00	11/29/00

RL: Reporting Limit

METHOD 300.0
ORTHOPHOSPHATE-P

Client : IT CORPORATION
Project : MCAS EL TORO/18609/D.O. 70
Batch No. : 00K253

Matrix : WATER
Instrument ID : TI006

SAMPLE ID	EMAX SAMPLE ID	RESULTS (mg/L)	DLF	MOIST	RL (mg/L)	MDL (mg/L)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1W	ICL010WB	ND	1	NA	.5	.0322	12/06/0011:36	NA	AL06003A	AL06001A	ICL010W	NA	NA
LCS1W	ICL010WL	2.07	1	NA	.5	.0322	12/06/0011:53	NA	AL06004A	AL06001A	ICL010W	NA	NA
LCD1W	ICL010WC	2.06	1	NA	.5	.0322	12/06/0012:10	NA	AL06005A	AL06001A	ICL010W	NA	NA
18609-3694	K253-01	ND	1	NA	.5	.0322	12/06/0015:35	NA	AL06017A	AL06013A	ICL010W	11/29/00	11/29/00
18609-3697	K253-03	ND	1	NA	.5	.0322	12/06/0015:52	NA	AL06018A	AL06013A	ICL010W	11/29/00	11/29/00
18609-3698	K253-04	ND	1	NA	.5	.0322	12/06/0016:09	NA	AL06019A	AL06013A	ICL010W	11/29/00	11/29/00

RL : Reporting Limit

METHOD 300.0
SULFATE

Client : IT CORPORATION
Project : MCAS EL TORO/18609/D.O. 70
Batch No. : 00K253

Matrix : WATER
Instrument ID : TI006

SAMPLE ID	EMAX SAMPLE ID	RESULTS (mg/L)	DLF	MOIST	RL (mg/L)	MDL (mg/L)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1W	ICL012WB	ND	1	NA	.5	.101	12/07/0003:12	NA	AL06051A	AL06049A	ICL012W	NA	NA
LCS1W	ICL012WL	21.1	1	NA	.5	.101	12/07/0003:29	NA	AL06052A	AL06049A	ICL012W	NA	NA
LCD1W	ICL012WC	21.3	1	NA	.5	.101	12/07/0003:46	NA	AL06053A	AL06049A	ICL012W	NA	NA
18609-3694	K253-01	141	25	NA	12.5	2.53	12/07/0009:03	NA	AL06071A	AL06061A	ICL012W	11/29/00	11/29/00
18609-3697	K253-03	138	25	NA	12.5	2.53	12/07/0009:20	NA	AL06072A	AL06061A	ICL012W	11/29/00	11/29/00
18609-3698	K253-04	116	25	NA	12.5	2.53	12/07/0010:11	NA	AL06075A	AL06073A	ICL012W	11/29/00	11/29/00

RL : Reporting Limit

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

LIENT: IT CORPORATION
ROJECT: MCAS EL TORO/18609/D.O. 70
ATCH NO.: 00K253
ETHOD: METHOD 300.0

ATRIX:	WATER			% MOISTURE:	NA
ILUTION FACTOR:	1	1	1		
AMPLE ID:	MBLK1W				
AB SAMP ID:	ICL011WB	ICL011WL	ICL011WC		
AB FILE ID:	AL06028A	AL06029A	AL06030A		
ATE EXTRACTED:	NA	NA	NA	DATE COLLECTED:	NA
ATE ANALYZED:	12/06/0020:40	12/06/0020:57	12/06/0021:14	DATE RECEIVED:	NA
REP. BATCH:	ICL011W	ICL011W	ICL011W		
ALIB. REF:	AL06025A	AL06025A	AL06025A		

CCESSION:

ARAMETER	BLNK RSLT (mg/L)	SPIKE AMT (mg/L)	BS RSLT (mg/L)	BS % REC	SPIKE AMT (mg/L)	BSD RSLT (mg/L)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
itrate/Nitrite-N	ND	4	4.06	102	4	4.01	100	2	80-120	20

8007

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
BATCH NO.: 00K253
METHOD: METHOD 300.0

MATRIX:	WATER			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK1W				
LAB SAMP ID:	ICL012WB	ICL012WL	ICL012WC		
LAB FILE ID:	AL06051A	AL06052A	AL06053A		
DATE EXTRACTED:	NA	NA	NA	DATE COLLECTED:	NA
DATE ANALYZED:	12/07/0003:12	12/07/0003:29	12/07/0003:46	DATE RECEIVED:	NA
PREP. BATCH:	ICL012W	ICL012W	ICL012W		
CALIB. REF:	AL06049A	AL06049A	AL06049A		

ACCESSION:

PARAMETER	BLNK RSLT (mg/L)	SPIKE AMT (mg/L)	BS RSLT (mg/L)	BS % REC	SPIKE AMT (mg/L)	BSD RSLT (mg/L)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
Sulfate	ND	20	21.1	105	20	21.3	107	1	80-120	20

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
BATCH NO.: 00K253
METHOD: METHOD 300.0

MATRIX:	WATER			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK1W				
LAB SAMP ID:	ICL010WB	ICL010WL	ICL010WC		
LAB FILE ID:	AL06003A	AL06004A	AL06005A		
DATE EXTRACTED:	NA	NA	NA	DATE COLLECTED:	NA
DATE ANALYZED:	12/06/0011:36	12/06/0011:53	12/06/0012:10	DATE RECEIVED:	NA
PREP. BATCH:	ICL010W	ICL010W	ICL010W		
CALIB. REF:	AL06001A	AL06001A	AL06001A		

ACCESSION:

PARAMETER	BLNK RSLT (mg/L)	SPIKE AMT (mg/L)	BS RSLT (mg/L)	BS % REC	SPIKE AMT (mg/L)	BSD RSLT (mg/L)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
Orthophosphate-P	ND	2	2.07	103	2	2.06	103	0	80-120	20

8009

METHOD 310.1
TOTAL ALKALINITY

Client : IT CORPORATION
Project : MCAS EL TORO/18609/D.O. 70
Batch No. : 00K253

Matrix : WATER
Instrument ID :

SAMPLE ID	EMAX SAMPLE ID	RESULTS (mg/L)	DLF	MOIST	RL (mg/L)	MDL (mg/L)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
18609-3694	K253-01	343	1	NA	5	.469	12/06/0009:45	NA	ALL001W-4	NA	ALL001W	11/29/00	11/29/00
18609-3694DUP	K253-01D	340	1	NA	5	.469	12/06/0010:00	NA	ALL001W-5	NA	ALL001W	11/29/00	11/29/00
18609-3694MS	K253-01M	397	1	NA	5	.469	12/06/0010:15	NA	ALL001W-6	NA	ALL001W	11/29/00	11/29/00
18609-3697	K253-03	345	1	NA	5	.469	12/06/0010:30	NA	ALL001W-7	NA	ALL001W	11/29/00	11/29/00
18609-3698	K253-04	269	1	NA	5	.469	12/06/0010:45	NA	ALL001W-8	NA	ALL001W	11/29/00	11/29/00
MBLK1W	ALL001WB	ND	1	NA	5	.469	12/06/0009:00	NA	ALL001W-1	NA	ALL001W	NA	NA
LCS1W	ALL001WL	102	1	NA	5	.469	12/06/0009:15	NA	ALL001W-2	NA	ALL001W	NA	NA
LCD1W	ALL001WC	105	1	NA	5	.469	12/06/0009:30	NA	ALL001W-3	NA	ALL001W	NA	NA

RL: Reporting Limit

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
METHOD: METHOD 310.1
MATRIX: WATER
% MOISTURE: NA

BATCH NO.: 00K253
SAMPLE ID: LCS1W/LCD1W
CONTROL NO.: ALL001WL/C

DATE RECEIVED: NA
DATE EXTRACTED: NA
DATE ANALYZED: 12/06/00 09:15/09:30

ACCESSION:

PARAMETER	BLNK RSLT (mg/L)	SPIKE AMT (mg/L)	BS RSLT (mg/L)	BS % REC	SPIKE AMT (mg/L)	BSD RSLT (mg/L)	BSD % REC	RPD %	QC LIMIT %	RPD LIMIT %
Alkalinity	ND	101	102	101	101	105	104	3	80-120	20

0035

EMAX QUALITY CONTROL DATA
MS ANALYSIS

LIENT: IT CORPORATION
ROJECT: MCAS EL TORO/18609/D.O. 70
ETHOD: METHOD 310.1
ATRIX: WATER
MOISTURE: NA

==========

ATCH NO.: 00K253
AMPLE ID: 18609-3694MS
ONTROL NO.: K253-01M

DATE RECEIVED: 11/29/00
DATE EXTRACTED: NA
DATE ANALYZED: 12/06/00 10:15

CCESSION:

ARAMETER	SMPL RSLT (mg/L)	SPIKE AMT (mg/L)	MS RSLT (mg/L)	MS % REC	QC LIMIT (%)
lkalinity	343	58.5	397	92	80-120

8033

METHOD 160.1
TOTAL DISSOLVED SOLIDS

Client : IT CORPORATION
Project : MCAS EL TORO/18609/D.O. 70
Batch No. : 00K253

Matrix : WATER
Instrument ID :

SAMPLE ID	EMAX SAMPLE ID	RESULTS (mg/L)	DLF	MOIST	RL (mg/L)	MDL (mg/L)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
18609-3694	K253-01	660	1	NA	10	4.33	112/02/017:16	NA	DSL001W-17	NA	DSL001W	11/29/00	11/29/00
18609-3697	K253-03	385	1	NA	10	4.33	12/02/0017:17	NA	DSL001W-18	NA	DSL001W	11/29/00	11/29/00
18609-3698	K253-04	580	1	NA	10	4.33	12/02/0017:18	NA	DSL001W-19	NA	DSL001W	11/29/00	11/29/00
MBLK1W	DSL001WB	ND	1	NA	10	4.33	12/02/0017:00	NA	DSL001W-1	NA	DSL001W	NA	NA
LCS1W	DSL001WL	445	1	NA	10	4.33	12/02/0017:01	NA	DSL001W-2	NA	DSL001W	NA	NA
LCD1W	DSL001WC	445	1	NA	10	4.33	12/02/0017:02	NA	DSL001W-3	NA	DSL001W	NA	NA

RL : Reporting Limit

8037

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
METHOD: METHOD 160.1
MATRIX: WATER
% MOISTURE: NA

BATCH NO.: 00K253
SAMPLE ID: LCS1W/LCD1W
CONTROL NO.: DSL001WL/C

DATE RECEIVED: NA
DATE EXTRACTED: NA
DATE ANALYZED: 12/02/00 17:01/17:02

ACCESSION:

PARAMETER	BLNK RSLT (mg/L)	SPIKE AMT (mg/L)	BS RSLT (mg/L)	BS % REC	SPIKE AMT (mg/L)	BSD RSLT (mg/L)	BSD % REC	RPD %	QC LIMIT %	RPD LIMIT %
TDS	ND	442	445	101	442	445	101	0	80-120	20

8038

METHOD 351.3
TKN

Client : IT CORPORATION
Project : MCAS EL TORO/18609/D.O. 70
Batch No. : 00K253

Matrix : WATER
Instrument ID : I21

SAMPLE ID	EMAX SAMPLE ID	RESULTS (mg/L)	DLF	MOIST	RL (mg/L)	MDL (mg/L)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1W	KNL002WB	ND	1	NA	1	.0255	12/06/0010:10	12/05/0014:30	KNL002W-11	KNL002W-09	KNL002W	NA	NA
LCS1W	KNL002WL	9.97	1	NA	1	.0255	12/06/0010:11	12/05/0014:30	KNL002W-12	KNL002W-09	KNL002W	NA	NA
LCD1W	KNL002WC	10.0	1	NA	1	.0255	12/06/0010:12	12/05/0014:30	KNL002W-13	KNL002W-09	KNL002W	NA	NA
18609-3694	K253-01	ND	1	NA	1	.0255	12/06/0010:13	12/05/0014:30	KNL002W-14	KNL002W-09	KNL002W	11/29/00	11/29/00
18609-3697	K253-03	ND	1	NA	1	.0255	12/06/0010:14	12/05/0014:30	KNL002W-15	KNL002W-09	KNL002W	11/29/00	11/29/00
18609-3697DUP	K253-03D	ND	1	NA	1	.0255	12/06/0010:15	12/05/0014:30	KNL002W-16	KNL002W-09	KNL002W	11/29/00	11/29/00
18609-3697MS	K253-03M	1.28	1	NA	1	.0255	12/06/0010:16	12/05/0014:30	KNL002W-17	KNL002W-09	KNL002W	11/29/00	11/29/00
18609-3698	K253-04	ND	1	NA	1	.0255	12/06/0010:17	12/05/0014:30	KNL002W-18	KNL002W-09	KNL002W	11/29/00	11/29/00

RL : Reporting Limit

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
METHOD: METHOD 351.3
MATRIX: WATER
% MOISTURE: NA

BATCH NO.: 00K253
SAMPLE ID: LCS1W/LCD1W
CONTROL NO.: KNL002WL/C

DATE RECEIVED: NA
DATE EXTRACTED: 12/05/00
DATE ANALYZED: 12/06/00 10:11/10:12

ACCESSION:

PARAMETER	BLNK RSLT (mg/L)	SPIKE AMT (mg/L)	BS RSLT (mg/L)	BS % REC	SPIKE AMT (mg/L)	BSD RSLT (mg/L)	BSD % REC	RPD %	QC LIMIT %	RPD LIMIT %
TKN	ND	10.9	9.97	91	10.9	10.0	92	0	80-120	20

8043

EMAX QUALITY CONTROL DATA
MS ANALYSIS

LIENT: IT CORPORATION
ROJECT: MCAS EL TORO/18609/D.O. 70
ETHOD: METHOD 351.3
ATRIX: WATER
MOISTURE: NA

==========

ATCH NO.: 00K253 DATE RECEIVED: 11/29/00
AMPLE ID: 18609-3697MS DATE EXTRACTED: 12/05/00
ONTROL NO.: K253-03M DATE ANALYZED: 12/06/00 10:16

CCESSION:

ARAMETER	SMPL RSLT (mg/L)	SPIKE AMT (mg/L)	MS RSLT (mg/L)	MS % REC	QC LIMIT (%)
KN	.693J	.6	1.28	98	80-120

3041

METHOD 150.1
PH

Client : IT CORPORATION
Project : MCAS EL TORO/18609/D.O. 70
Batch No. : OOK253

Matrix : WATER
Instrument ID : I053

SAMPLE ID	EMAX SAMPLE ID	RESULTS (pH unit)	DLF	MOIST	RL (pH unit)	MDL (pH unit)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
18609-3694	K253-01	7.42	1	NA	.1	NA	11/30/0011:05	NA	PHK006W-02	NA	PHK006W	11/29/00	11/29/00
18609-3694DUP	K253-01D	7.42	1	NA	.1	NA	11/30/0011:10	NA	PHK006W-03	NA	PHK006W	11/29/00	11/29/00
18609-3697	K253-03	7.29	1	NA	.1	NA	11/30/0011:15	NA	PHK006W-04	NA	PHK006W	11/29/00	11/29/00
18609-3698	K253-04	7.52	1	NA	.1	NA	11/30/0011:20	NA	PHK006W-05	NA	PHK006W	11/29/00	11/29/00

RL: Reporting Limit

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: MCAS El Toro

Collection Date: November 29, 2000

LDC Report Date: January 4, 2001

Matrix: Water

Parameters: Total Petroleum Hydrocarbons as Extractables

Validation Level: NFESC Level C

Laboratory: EMAX Laboratories, Inc.

Sample Delivery Group (SDG): 00K253

Sample Identification

18609-3694
18609-3692
18609-3693

Introduction

This data review covers 3 water samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8015 modified for Total Petroleum Hydrocarbons (TPH) as Extractables.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (October 1999) as there are no current guidelines for the method stated above.

A table summarizing all data qualification is provided at the end of this report. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Blank results are summarized in Section III.

Field duplicates are summarized in Section IX.

Paw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Calibration

a. Initial Calibration

Initial calibration of compounds was performed as required by the method.

The percent relative standard deviations (%RSD) of calibration factors for compounds were less than or equal to 20.0% .

b. Calibration Verification

Calibration verification was performed at required frequencies. The percent differences (%D) of amounts in continuing standard mixtures were within the 15.0% QC limits.

III. Blanks

Method blanks were reviewed for each matrix as applicable. No total petroleum hydrocarbons as extractable contaminants were found in the method blanks.

IV. Accuracy and Precision Data

a. Surrogate Recovery

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

b. Matrix Spike/Matrix Spike Duplicates

The laboratory has indicated that there were no matrix spike (MS) and matrix spike duplicate (MSD) analyses specified for the samples in this SDG, and therefore matrix spike and matrix spike duplicate analyses were not performed for this SDG.

c. Laboratory Control Samples

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

V. Target Compound Identification

Raw data were not reviewed for this SDG.

VI. Compound Quantitation and CRQLs

Raw data were not reviewed for this SDG.

VII. System Performance

Raw data were not reviewed for this SDG.

VIII. Overall Assessment of Data

Data flags have been summarized at the end of this report.

IX. Field Duplicates

No field duplicates were identified in this SDG.

X. Field Blanks

No field blanks were identified in this SDG.

MCAS El Toro
Total Petroleum Hydrocarbons as Extractables - Data Qualification Summary - SDG 00K253

No Sample Data Qualified in this SDG

MCAS El Toro
Total Petroleum Hydrocarbons as Extractables - Laboratory Blank Data Qualification Summary - SDG 00K253

No Sample Data Qualified in this SDG

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: MCAS El Toro

Collection Date: November 29, 2000

LDC Report Date: January 4, 2001

Matrix: Water

Parameters: Total Petroleum Hydrocarbons as Gasoline

Validation Level: NFESC Level C

Laboratory: EMAX Laboratories, Inc.

Sample Delivery Group (SDG): 00K253

Sample Identification

18609-3694
18609-3696
18609-3697
18609-3698
18609-3696MS
18609-3696MSD

Introduction

This data review covers 6 water samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8015 modified for Total Petroleum Hydrocarbons (TPH) as Gasoline.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (October 1999) as there are no current guidelines for the method stated above.

A table summarizing all data qualification is provided at the end of this report. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Blank results are summarized in Section III.

Field duplicates are summarized in Section IX.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Calibration

a. Initial Calibration

Initial calibration of compounds was performed as required by the method.

The percent relative standard deviations (%RSD) of calibration factors for compounds were less than or equal to 20.0% .

b. Calibration Verification

Calibration verification was performed at required frequencies. The percent differences (%D) of amounts in continuing standard mixtures were within the 15.0% QC limits.

III. Blanks

Method blanks were reviewed for each matrix as applicable. No total petroleum hydrocarbons as gasoline contaminants were found in the method blanks.

IV. Accuracy and Precision Data

a. Surrogate Recovery

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

b. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

c. Laboratory Control Samples

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

V. Target Compound Identification

Raw data were not reviewed for this SDG.

VI. Compound Quantitation and CRQLs

Raw data were not reviewed for this SDG.

VII. System Performance

Raw data were not reviewed for this SDG.

VIII. Overall Assessment of Data

Data flags have been summarized at the end of this report.

IX. Field Duplicates

Samples 18609-3694 and 18609-3697 were identified as field duplicates. No total petroleum hydrocarbons as gasoline were detected in any of the samples.

X. Field Blanks

Sample 18609-3696 was identified as a trip blank. No total petroleum hydrocarbons as gasoline contaminants were found in this blank.

MCAS El Toro
Total Petroleum Hydrocarbons as Gasoline - Data Qualification Summary - SDG 00K253

No Sample Data Qualified in this SDG

MCAS El Toro
Total Petroleum Hydrocarbons as Gasoline - Laboratory Blank Data Qualification Summary - SDG 00K253

No Sample Data Qualified in this SDG

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: MCAS El Toro

Collection Date: November 29, 2000

LDC Report Date: December 29, 2000

Matrix: Water

Parameters: Volatiles

Validation Level: NFESC Level C

Laboratory: EMAX Laboratories, Inc.

Sample Delivery Group (SDG): 00K253

Sample Identification

18609-3694
18609-3696
18609-3697
18609-3698

Introduction

This data review covers 4 water samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8260A for Volatiles.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (October 1999) as there are no current guidelines for the method stated above.

A table summarizing all data qualification is provided at the end of this report. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Blank results are summarized in Section V.

Field duplicates are summarized in Section XVI.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. GC/MS Instrument Performance Check

Instrument performance was checked at 12 hour intervals.

All ion abundance requirements were met.

III. Initial Calibration

Initial calibration was performed using required standard concentrations.

Percent relative standard deviations (%RSD) were less than or equal to 30.0% for all calibration check compounds and less than or equal to 50.0% for all other compounds.

Average relative response factors (RRF) for all volatile target compounds and system performance check compounds (SPCCs) were within method and validation criteria with the following exceptions:

Date	Compound	RRF (Limits)	Associated Samples	Flag	A or P
11/17/00	Acetone	0.04427 (≥0.05)	All samples in SDG 00K253	J (all detects) R (all non-detects)	A

IV. Continuing Calibration

Continuing calibration was performed at the required frequencies.

All of the continuing calibration percent differences (%D) between the initial calibration RRF and the continuing calibration RRF were less than or equal to 25.0% for all calibration check compounds and less than or equal to 50.0% for all other compounds.

All of the continuing calibration RRF values were within method and validation criteria with the following exceptions:

Date	Compound	RRF (Limits)	Associated Samples	Flag	A or P
12/4/00	Acetone	0.03427 (≥0.05)	All samples in SDG 00K253	J (all detects) R (all non-detects)	A

V. Blanks

Method blanks were reviewed for each matrix as applicable. No volatile contaminants were found in the method blanks.

VI. Surrogate Spikes

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

VII. Matrix Spike/Matrix Spike Duplicates

The laboratory has indicated that there were no matrix spike (MS) and matrix spike duplicate (MSD) analyses specified for the samples in this SDG, and therefore matrix spike and matrix spike duplicate analyses were not performed for this SDG.

VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

IX. Regional Quality Assurance and Quality Control

Not applicable.

X. Internal Standards

All internal standard areas and retention times were within QC limits.

XI. Target Compound Identifications

Raw data were not reviewed for this SDG.

XII. Compound Quantitation and CRQLs

Raw data were not reviewed for this SDG.

XIII. Tentatively Identified Compounds (TICs)

Raw data were not reviewed for this SDG.

XIV. System Performance

Raw data were not reviewed for this SDG.

XV. Overall Assessment of Data

Data flags have been summarized at the end of the report.

XVI. Field Duplicates

Samples 18609-3694 and 18609-3697 were identified as field duplicates. No volatiles were detected in any of the samples.

XVII. Field Blanks

Sample 18609-3696 was identified as a trip blank. No volatile contaminants were found in this blank.

MCAS El Toro
Volatiles - Data Qualification Summary - SDG 00K253

SDG	Sample	Compound	Flag	A or P	Reason
00K253	18609-3694 18609-3696 18609-3697 18609-3698	Acetone	J (all detects) R (all non-detects)	A	Initial calibration (RRF)
00K253	18609-3694 18609-3696 18609-3697 18609-3698	Acetone	J (all detects) R (all non-detects)	A	Continuing calibration (RRF)

MCAS El Toro
Volatiles - Laboratory Blank Data Qualification Summary - SDG 00K253

No Sample Data Qualified in this SDG

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: MCAS El Toro

Collection Date: November 29, 2000

LDC Report Date: January 2, 2001

Matrix: Water

Parameters: Metals

Validation Level: NFESC Level C

Laboratory: EMAX Laboratories, Inc.

Sample Delivery Group (SDG): 00K253

Sample Identification

18609-3694
18609-3697
18609-3698

Introduction

This data review covers 3 water samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Methods 6010 and 7000 for Metals. The metals analyzed were Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Manganese, Magnesium, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Vanadium, and Zinc.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review (February 1994) as there are no current guidelines for the methods stated above.

A table summarizing all data qualification flags is provided at the end of this report. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from specified protocols or is of technical advisory nature.

Blanks are summarized in Section III.

Field duplicates are summarized in Section XIII.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Calibration

An initial calibration was performed.

The frequency and analysis criteria of the initial calibration verification (ICV) and continuing calibration verification (CCV) were met.

III. Blanks

Method blanks were reviewed for each matrix as applicable.

Data qualification by the initial, continuing and preparation blanks (ICB/CCB/PBs) was based on the maximum contaminant concentration in the ICB/CCB/PBs in the analysis of each analyte. No contaminant concentrations were found above the reporting limit in the initial, continuing and preparation blanks with the following exceptions:

Method Blank ID	Analyte	Maximum Concentration	Associated Samples
PB (prep blank)	Chromium	6.2 ug/L	All samples in SDG 00K253
ICB/CCB	Aluminum	33.7 ug/L	All samples in SDG 00K253
	Barium	1.16 ug/L	
	Beryllium	0.29 ug/L	
	Chromium	4.08 ug/L	
	Copper	3.65 ug/L	
	Iron	6.10 ug/L	
	Magnesium	31.8 ug/L	
	Manganese	13.6 ug/L	
	Potassium	2029 ug/L	
	Silver	5.48 ug/L	
	Vanadium	2.62 ug/L	

Sample concentrations were compared to the maximum contaminant concentrations detected in the ICB/CCB/PBs. The sample concentrations were either not detected or were significantly greater (>5X blank contaminants) than the concentrations found in the associated method blanks with the following exceptions:

Sample	Analyte	Reported Concentration	Modified Final Concentration
18609-3694	Aluminum Chromium Copper Manganese Potassium	56.4 ug/L 11.2 ug/L 2.99 ug/L 43.2 ug/L 3520 ug/L	56.4U ug/L 11.2U ug/L 2.99U ug/L 43.2U ug/L 3520U ug/L
18609-3697	Chromium Manganese Potassium	7.62 ug/L 42.9 ug/L 3680 ug/L	7.62U ug/L 42.9U ug/L 3680U ug/L
18609-3698	Aluminum Chromium Copper Iron Potassium	60.1 ug/L 11.5 ug/L 4.98 ug/L 17.5 ug/L 3510 ug/L	60.1U ug/L 11.5U ug/L 4.98U ug/L 17.5U ug/L 3510U ug/L

IV. ICP Interference Check Sample (ICS) Analysis

The frequency of analysis was met.

The criteria for analysis were met.

V. Matrix Spike Analysis

The laboratory has indicated that there were no matrix spike (MS) and matrix spike duplicate (MSD) analyses specified for the samples in this SDG, and therefore matrix spike and matrix spike duplicate analyses were not performed for this SDG.

VI. Duplicate Sample Analysis

Duplicate (DUP) sample analyses were reviewed for each matrix as applicable.

VII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

VIII. Internal Standards (ICP-MS)

ICP-MS was not utilized in this SDG.

IX. Furnace Atomic Absorption QC

Graphite furnace atomic absorption was not utilized in this SDG.

X. ICP Serial Dilution

Not required by the method.

XI. Sample Result Verification

Raw data were not reviewed for this SDG.

XII. Overall Assessment of Data

Data flags have been summarized at the end of this report.

XIII. Field Duplicates

Samples 18609-3694 and 18609-3697 were identified as field duplicates. No metals were detected in any of the samples with the following exceptions:

Analyte	Concentration (ug/L)		RPD
	18609-3694	18609-3697	
Aluminum	56.4	46.3U	200
Arsenic	3.72	2.43U	200
Barium	66.1	66.9	1
Calcium	78700	81400	3
Chromium	11.2	7.62	38
Copper	2.99	2.67U	200
Iron	34.6	15	79
Magnesium	52700	55400	5
Manganese	43.2	42.9	1
Nickel	15.5	9.79	45
Potassium	3520	3680	4
Selenium	3.04	2.06	38
Sodium	81800	82200	0.5
Vanadium	26.4	26.1	1

Analyte	Concentration (ug/L)		RPD
	18609-3694	18609-3697	
Zinc	7.63	7.89	3
Molybdenum	24.8	21.6	13

XIV. Field Blanks

No field blanks were identified in this SDG.

MCAS El Toro
Metals - Data Qualification Summary - SDG 00K253

No Sample Data Qualified in this SDG

MCAS El Toro
Metals - Laboratory Blank Data Qualification Summary - SDG 00K253

SDG	Sample	Analyte	Modified Final Concentration	A or P
00K253	18609-3694	Aluminum Chromium Copper Manganese Potassium	56.4U ug/L 11.2U ug/L 2.99U ug/L 43.2U ug/L 3520U ug/L	A
00K253	18609-3697	Chromium Manganese Potassium	7.62U ug/L 42.9U ug/L 3680U ug/L	A
00K253	18609-3698	Aluminum Chromium Copper Iron Potassium	60.1U ug/L 11.5U ug/L 4.98U ug/L 17.5U ug/L 3510U ug/L	A

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: MCAS El Toro

Collection Date: November 29, 2000

LDC Report Date: January 2, 2001

Matrix: Water

Parameters: Wet Chemistry

Validation Level: NFESC Level C

Laboratory: EMAX Laboratories, Inc.

Sample Delivery Group (SDG): 00K253

Sample Identification

18609-3694
18609-3697
18609-3698
18609-3694MS
18609-3694DUP
18609-3697MS
18609-3697DUP

Introduction

This data review covers 7 water samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA Method 150.1 for pH, EPA Method 160.1 for Total Dissolved Solids, EPA Method 300.0 for Nitrate/Nitrite as Nitrogen, Sulfate, and Orthophosphate, EPA Method 310.1 for Alkalinity, and EPA Method 351.3 for Total Kjeldahl Nitrogen.

The review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review (February 1994) as there are no current guidelines for the methods stated above.

A table summarizing all data qualification is provided at the end of this report. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Blank results are summarized in Section III.

Field duplicates are summarized in Section VII.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met with the following exceptions:

Sample	Analyte	Total Time From Sample Collection Until Analysis	Required Holding Time From Sample Collection Until Analysis	Flag	A or P
18609-3694 18609-3697 18609-3698	Orthophosphate	7 days	48 hours	J (all detects) R (all non-detects)	P

Non-detected sample concentrations were qualified as unusable (R) due to a gross exceedance (>2X) of holding time.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Calibration

a. Initial Calibration

All criteria for the initial calibration of each method were met with the following exceptions:

Sample	Analyte	Finding	Criteria	Flag	A or P
All samples in SDG 00K253	Sulfate Nitrate/Nitrite as N Orthophosphate Total kjeldahl nitrogen	A blank was not used to establish the calibration curve.	A blank must be used to establish the calibration curve.	None None None None	P

b. Calibration Verification

Calibration verification frequency and analysis criteria were met for each method when applicable.

III. Blanks

Method blanks were reviewed for each matrix as applicable. No contaminant concentrations were found in the method blanks.

IV. Accuracy and Precision Data

a. Matrix Spike/(Matrix Spike) Duplicates

Matrix spike (MS) samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

Duplicate (DUP) sample analyses were reviewed for each matrix as applicable. Relative percent differences (RPD) were within QC limits.

b. Laboratory Control Samples

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

V. Sample Result Verification

Raw data were not reviewed for this SDG.

VI. Overall Assessment of Data

Data flags are summarized at the end of this report.

VII. Field Duplicates

Samples 18609-3694 and 18609-3697 were identified as field duplicates. No contaminant concentrations were detected in any of the samples with the following exceptions:

Analyte	Concentration (mg/L)		RPD
	18609-3694	18609-3697	
Nitrate/Nitrite as N	5.38	5.59	4
Sulfate	141	138	2
Alkalinity	343	345	0.6
Total dissolved solids	660	385	53
pH	7.42	7.29	2

VIII. Field Blanks

No field blanks were identified in this SDG.

MCAS El Toro
Wet Chemistry - Data Qualification Summary - SDG 00K253

SDG	Sample	Analyte	Flag	A or P	Reason
00K253	18609-3694 18609-3697 18609-3698	Orthophosphate	J (all detects) R (all non-detects)	P	Technical holding times
00K253	18609-3694 18609-3697 18609-3698	Nitrate/Nitrite as N Sulfate Orthophosphate Total kjeldahl nitrogen	None None None None	P	Initial calibration

MCAS El Toro
Wet Chemistry - Laboratory Blank Data Qualification Summary - SDG 00K253

No Sample Data Qualified in this SDG

the IT group

IT Corporation
2790 Mosside Blvd.
Monroeville, PA 15146-2792
(412)372-7701

CHAIN-OF-CUSTODY RECORD

PROJECT DATA MANAGER'S COPY

A 12381

FORM 0019 REV. 9-99

Tank Farm 398 - GW

IT'S LAB COORDINATOR: M. Concepion	LAB COORDINATOR'S PHONE: 949-660-7551	LAB COORDINATOR'S FAX: 949-475-5433	LABORATORY SERVICE ID: 00K268	LABORATORY CONTACT: EMAX	MAIL REPORT (COMPANY NAME): IT Group
PROJECT NAME: UST 398	PROJECT LOCATION: MCAS El Toro	PROJECT NUMBER: 18609	LABORATORY PHONE: 310-618-8889	LABORATORY FAX: 310-618-0818	RECIPIENT NAME: Dwayne Ishida
PROJECT CONTACT: M. Concepion	PROJECT PHONE NUMBER: 949-451-1666	PROJECT FAX: 949-451-1672	LABORATORY ADDRESS: 630 Maple Ave		ADDRESS: 3347 Michelson #200
PROJECT ADDRESS: Bldg. 311, MCAS El Toro	CITY, STATE AND ZIP CODE: Santa Ana CA 92708	CLIENT: SWDIV	CITY, STATE AND ZIP CODE: Torrance, CA 92705		CITY, STATE AND ZIP CODE: Irvine, CA 92612
PROJECT MANAGER: D. Rawal	PROJECT MANAGER'S PHONE: 949-660-7576	PROJECT MANAGER'S FAX: 949-474-8709			

Item	Sample Identifier	Matrix	Date	Time	Preserved	# of Cont.	QC Level	T.A.T.	Analyses: TPHg (8015)	Diesel (8015)	JP5 (8015)	VOCs (8260)	Metals, pH	TDS, SO4, PO4	Alkalinity	NO4, TKN	Comments
1	18609-~~3697~~ ~~3698~~ 11-30-00 -3699 ~~3698~~ 11-30	W	11-30	0730	X	2 ~~3~~ 11-30	3	5d	X			X			11-30		TRIP: TPHg + VOC w/ HCl
2	18609-~~3699~~ ~~3690~~ -3700 11-30-00	W	11-30	1000	X	45	3	5d	X	X	X	X	X	X	X	X	MS/MSD: TPHg + VOC w/ HCl; MSD metals w/ HNO3; TKN + NO4 w/ H2SO4
3	18609-3701	W	11-30	1325 ~~1425~~ 11-30-00	X	15	3	5d	X	X	X	X		X	X	X	TPHg + VOC w/ HCl; TKN + NO4 w/ H2SO4; metals w/ HNO3
4	18609-3702	W	11-30	1445 ~~1445~~ 11-30-00	X	19	3	5d	X	X	X	X	X	X	X	X	TPHg + VOC w/ HCl; metals w/ HNO3; TKN + NO4 w/ H2SO4
5																	
6																	
7																	
8																	
9																	
10																	

SAMPLES COLLECTED BY: [signature]

COURIER AND AIR BILL NUMBER: Courier

COOLER TEMPERATURE UPON RECEIPT:

RELINQUISHED BY	RECEIVED BY	DATE	TIME	SAMPLE'S CONDITION UPON RECEIPT
[signature]	[signature]	11-30-00	1550	

Distribution: White - Laboratory (To be returned with Analytical Report); Goldenrod - Project File; Manilla - Project Data Manager

Project Information Section For Project Personnel Only Do Not Submit to Laboratory

Tank Farm #398-GW

Sample Point Location	Sample Type: G	C	F	QC
TRIP BLANK	X			X
398-MW-30 w/ MS/MSD	X			X
MW 398-9	X			
Equip. Rinsate	X			X

Comments: due 12/8/00 rec'd 12/8/00

Sample Type: G - Grab, C - Composite, F - Field Sample, QC - Quality Control Sample

AL

6254

5785C

EMAX
LABORATORIES, INC.
630 Maple Ave.
Torrance, CA 90503
Telephone: (310) 618-8889
Fax: (310) 618-0818

Date: 12-18-2000
EMAX Batch No.: 00K268

Attn: Dwayne Ishida

IT Corporation
3347 Michelson Dr. # 200
Irvine CA 92612

Subject: Laboratory Report
Project: MCAS El Toro/18609/D.O. 70

Enclosed is the Laboratory report for samples received on 11/30/00. The data reported include :

Sample ID	Control #	Col Date	Matrix	Analysis
18609-3699	K268-01	11/30/00	WATER	TPH GASOLINE
				VOLATILE ORGANICS BY GC/MS
18609-3700	K268-02	11/30/00	WATER	TPH GASOLINE
				TPH DIESEL
				VOLATILE ORGANICS BY GC/MS
				MERCURY
				METALS
				PH
				SOLIDS TOTAL DISSOLVED
				SULFATE BY IC
				PHOSPHATE-P
				ALKALINITY
				NITRATE-N BY IC
				TKN
18609-3701	K268-03	11/30/00	WATER	TPH GASOLINE
				TPH DIESEL
				VOLATILE ORGANICS BY GC/MS
				SOLIDS TOTAL DISSOLVED
				SULFATE BY IC

C

Sample ID	Control #	Col Date	Matrix	Analysis
				PHOSPHATE-P
				ALKALINITY
				NITRATE-N BY IC
				TKN
18609-3702	K268-04	11/30/00	WATER	TPH GASOLINE
				TPH DIESEL
				VOLATILE ORGANICS BY GC/MS
				MERCURY
				METALS
				PH
				SOLIDS TOTAL DISSOLVED
				SULFATE BY IC
				PHOSPHATE-P
				ALKALINITY
				NITRATE-N BY IC
				TKN

The results are summarized on the following pages.

Please feel free to call if you have any questions concerning these results.

Sincerely yours,

Kam Y. Pang, Ph.D.
Laboratory Director

EMAX LABORATORIES, INC. 620 Maple Ave., Torrance, CA 90503 TEL: (310) 618-8889 FAX: (310) 618-0818

METHOD M8015
TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

Client	: IT CORPORATION	Date Collected:	11/30/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	11/30/00
Batch No.	: 00K268	Date Extracted:	12/04/00 12:00
Sample ID:	18609-3700	Date Analyzed:	12/11/00 22:15
Lab Samp ID:	K268-02	Dilution Factor:	.98
Lab File ID:	TL03016A	Matrix :	WATER
Ext Btch ID:	DSL002W	% Moisture :	NA
Calib. Ref.:	TL03009A	Instrument ID :	GCT050

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
DIESEL	ND	.098	.066
JP5	ND	.49	.13

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
BROMOBENZENE	96	65-135
HEXACOSANE	78	60-145

QC LIMIT : (SOIL) 60-140 55-150
QC LIMIT : (WATER) 65-135 60-145
SURR1 : Bromobenzene
SURR2 : Hexacosane
RL : Reporting Limit

METHOD M8015
TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

Client	: IT CORPORATION	Date Collected:	11/30/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	11/30/00
Batch No.	: 00K268	Date Extracted:	12/04/00 12:00
Sample ID:	18609-3701	Date Analyzed:	12/12/00 00:41
Lab Samp ID:	K268-03	Dilution Factor:	.99
Lab File ID:	TL03019A	Matrix :	WATER
Ext Btch ID:	DSL002W	% Moisture :	NA
Calib. Ref.:	TL03009A	Instrument ID :	GCT050

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
DIESEL	ND	.099	.066
JP5	ND	.5	.13

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
BROMOBENZENE	105	65-135
HEXACOSANE	78	60-145

QC LIMIT : (SOIL) 60-140 55-150
QC LIMIT : (WATER) 65-135 60-145
SURR1 : Bromobenzene
SURR2 : Hexacosane
RL : Reporting Limit

METHOD M8015
TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

Client	: IT CORPORATION	Date Collected:	11/30/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	11/30/00
Batch No.	: 00K268	Date Extracted:	12/04/00 12:00
Sample ID:	18609-3702	Date Analyzed:	12/12/00 01:30
Lab Samp ID:	K268-04	Dilution Factor:	.97
Lab File ID:	TL03020A	Matrix :	WATER
Ext Btch ID:	DSL002W	% Moisture :	NA
Calib. Ref.:	TL03009A	Instrument ID :	GCT050

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
DIESEL	ND	.097	.065
JP5	ND	.49	.13

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
BROMOBENZENE	105	65-135
HEXACOSANE	81	60-145

QC LIMIT : (SOIL) 60-140 55-150
QC LIMIT : (WATER) 65-135 60-145
SURR1 : Bromobenzene
SURR2 : Hexacosane
RL : Reporting Limit

METHOD M8015
TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

Client	: IT CORPORATION	Date Collected:	NA
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	12/04/00
Batch No.	: 00K268	Date Extracted:	12/04/00 12:00
Sample ID:	MBLK1W	Date Analyzed:	12/08/00 06:45
Lab Samp ID:	DSL002WB	Dilution Factor:	1
Lab File ID:	TL02046A	Matrix :	WATER
Ext Btch ID:	DSL002W	% Moisture :	NA
Calib. Ref.:	TL02043A	Instrument ID :	GCT050

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
DIESEL	ND	.1	.067
JP5	ND	.5	.13

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
BROMOBENZENE	109	65-135
HEXACOSANE	101	60-145

QC LIMIT : (SOIL) 60-140 55-150
QC LIMIT : (WATER) 65-135 60-145
SURR1 : Bromobenzene
SURR2 : Hexacosane
RL : Reporting Limit

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
BATCH NO.: 00K268
METHOD: METHOD M8015

MATRIX:	WATER			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK1W				
LAB SAMP ID:	DSL002WB	DSL002WL	DSL002WC		
LAB FILE ID:	TL02046A	TL02047A	TL02048A		
DATE EXTRACTED:	12/04/0012:00	12/04/0012:00	12/04/0012:00	DATE COLLECTED:	NA
DATE ANALYZED:	12/08/0006:45	12/08/0007:33	12/08/0008:21	DATE RECEIVED:	12/04/00
PREP. BATCH:	DSL002W	DSL002W	DSL002W		
CALIB. REF:	TL02043A	TL02043A	TL02043A		

ACCESSION:

PARAMETER	BLNK RSLT (mg/L)	SPIKE AMT (mg/L)	BS RSLT (mg/L)	BS % REC	SPIKE AMT (mg/L)	BSD RSLT (mg/L)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
Diesel	ND	5	4.92	98	5	5.01	100	2	61-143	30

SURROGATE PARAMETER	SPIKE AMT (mg/L)	BS RSLT (mg/L)	BS % REC	SPIKE AMT (mg/L)	BSD RSLT (mg/L)	BSD % REC	QC LIMIT (%)
Bromobenzene	1	1.08	108	1	1.15	115	65-135
Hexacosane	.25	.253	101	.25	.258	103	60-145

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
BATCH NO.: 00K268
METHOD: METHOD M8015

MATRIX:	WATER			% MOISTURE:	NA
DILUTION FACTOR:	.98	.98	.98		
SAMPLE ID:	18609-3700				
LAB SAMP ID:	K268-02	K268-02M	K268-02S		
LAB FILE ID:	TL03016A	TL03017A	TL03018A		
DATE EXTRACTED:	12/04/0012:00	12/04/0012:00	12/04/0012:00	DATE COLLECTED:	11/30/00
DATE ANALYZED:	12/11/0022:15	12/11/0023:04	12/11/0023:53	DATE RECEIVED:	11/30/00
PREP. BATCH:	DSL002W	DSL002W	DSL002W		
CALIB. REF:	TL03009A	TL03009A	TL03009A		

ACCESSION:

PARAMETER	SMPL RSLT (mg/L)	SPIKE AMT (mg/L)	MS RSLT (mg/L)	MS % REC	SPIKE AMT (mg/L)	MSD RSLT (mg/L)	MSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
Diesel	ND	4.9	4.72	96	4.9	4.53	91	4	61-143	30

SURROGATE PARAMETER	SPIKE AMT (mg/L)	MS RSLT (mg/L)	MS % REC	SPIKE AMT (mg/L)	MSD RSLT (mg/L)	MSD % REC	QC LIMIT (%)
Bromobenzene	.98	1.06	108	.98	1.05	107	65-135
Hexacosane	.245	.2	82	.245	.207	84	60-145

METHOD 5030B/M8015
TOTAL PETROLEUM HYDROCARBONS BY PURGE & TRAP

Client : IT CORPORATION
Project : MCAS EL TORO/18609/D.O. 70
Batch No. : 00K268

Matrix : WATER
Instrument ID : GCT039

SAMPLE ID	EMAX SAMPLE ID	RESULTS (mg/L)	SURR (%)	DLF	MOIST	PRL (mg/L)	MDL (mg/L)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1W	VAL0839B	ND	80	1	NA	.1	.012	12/06/0008:26	12/06/0008:26	EL02076A	EL02068A	VAL0839	NA	12/06/00
LCS1W	VAL0839L	.473	104	1	NA	.1	.012	12/06/0007:19	12/06/0007:19	EL02074A	EL02068A	VAL0839	NA	12/06/00
LCD1W	VAL0839C	.474	103	1	NA	.1	.012	12/06/0007:53	12/06/0007:53	EL02075A	EL02068A	VAL0839	NA	12/06/00
18609-3699	K268-01	ND	86	1	NA	.1	.012	12/06/0009:00	12/06/0009:00	EL02077A	EL02068A	VAL0839	11/30/00	11/30/00
18609-3700	K268-02	ND	99	1	NA	.1	.012	12/06/0010:42	12/06/0010:42	EL02080A	EL02079A	VAL0839	11/30/00	11/30/00
18609-3700MS	K268-02M	.481	111	1	NA	.1	.012	12/06/0011:16	12/06/0011:16	EL02081A	EL02079A	VAL0839	11/30/00	11/30/00
18609-3700MSD	K268-02S	.487	111	1	NA	.1	.012	12/06/0011:50	12/06/0011:50	EL02082A	EL02079A	VAL0839	11/30/00	11/30/00
18609-3701	K268-03	ND	86	1	NA	.1	.012	12/06/0009:34	12/06/0009:34	EL02078A	EL02068A	VAL0839	11/30/00	11/30/00
18609-3702	K268-04	ND	86	1	NA	.1	.012	12/06/0012:31	12/06/0012:31	EL02083A	EL02079A	VAL0839	11/30/00	11/30/00

SURR : Bromofluorobenzene (W)65-135 (S)60-140
PRL : Reporting Limit
E : Value exceed the upper level of the initial calibration
D : Value from dilution

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

'ENT: IT CORPORATION
JECT: MCAS EL TORO/18609/D.O. 70
ATCH NO.: 00K268
ETHOD: METHOD 5030B/M8015

ATRIX:	WATER			% MOISTURE:	NA
ILUTION FACTOR:	1	1	1		
AMPLE ID:	MBLK1W				
LAB SAMP ID:	VAL0839B	VAL0839L	VAL0839C		
AB FILE ID:	EL02076A	EL02074A	EL02075A		
ATE EXTRACTED:	12/06/0008:26	12/06/0007:19	12/06/0007:53	DATE COLLECTED:	NA
ATE ANALYZED:	12/06/0008:26	12/06/0007:19	12/06/0007:53	DATE RECEIVED:	12/06/00
PREP. BATCH:	VAL0839	VAL0839	VAL0839		
ALIB. REF:	EL02068A	EL02068A	EL02068A		

ACCESSION:

ARAMETER	BLNK RSLT (mg/L)	SPIKE AMT (mg/L)	BS RSLT (mg/L)	BS % REC	SPIKE AMT (mg/L)	BSD RSLT (mg/L)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
Gasoline	ND	.55	.473	86	.55	.474	86	0	67-136	30

URROGATE PARAMETER	SPIKE AMT (mg/L)	BS RSLT (mg/L)	BS % REC	SPIKE AMT (mg/L)	BSD RSLT (mg/L)	BSD % REC	QC LIMIT (%)
Bromofluorobenzene	.02	.0208	104	.02	.0205	103	65-135

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
BATCH NO.: 00K268
METHOD: METHOD 5030B/M8015

MATRIX:	WATER			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	18609-3700				
LAB SAMP ID:	K268-02	K268-02M	K268-02S		
LAB FILE ID:	EL02080A	EL02081A	EL02082A		
DATE EXTRACTED:	12/06/0010:42	12/06/0011:16	12/06/0011:50	DATE COLLECTED:	11/30/00
DATE ANALYZED:	12/06/0010:42	12/06/0011:16	12/06/0011:50	DATE RECEIVED:	11/30/00
PREP. BATCH:	VAL0839	VAL0839	VAL0839		
CALIB. REF:	EL02079A	EL02079A	EL02079A		

ACCESSION:

PARAMETER	SMPL RSLT (mg/L)	SPIKE AMT (mg/L)	MS RSLT (mg/L)	MS % REC	SPIKE AMT (mg/L)	MSD RSLT (mg/L)	MSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
Gasoline	ND	.55	.481	87	.55	.487	88	1	67-136	30

SURROGATE PARAMETER	SPIKE AMT (mg/L)	MS RSLT (mg/L)	MS % REC	SPIKE AMT (mg/L)	MSD RSLT (mg/L)	MSD % REC	QC LIMIT (%)
Bromofluorobenzene	.02	.0221	111	.02	.0221	111	65-135

METHOD 5030A/8260A
VOLATILE ORGANICS BY GC/MS

nt	: IT CORPORATION	Date Collected:	11/30/00
ject	: MCAS EL TORO/18609/D.O. 70	Date Received:	11/30/00
atch No.	: 00K268	Date Extracted:	12/05/00 13:25
ample ID:	18609-3699	Date Analyzed:	12/05/00 13:25
ab Samp ID:	K268-01	Dilution Factor:	1
Lab File ID:	RLP055	Matrix :	WATER
Ext Btch ID:	VOL0402	% Moisture :	NA
alib. Ref.:	RLP050	Instrument ID :	T-002

PARAMETERS	RESULTS (ug/L)	PRL (ug/L)	MDL (ug/L)
,1,1-TRICHLOROETHANE	ND	5	.91
1,1,2,2-TETRACHLOROETHANE	ND	5	1.1
1,1,2-TRICHLOROETHANE	ND	5	.83
,1-DICHLOROETHANE	ND	5	.65
,1-DICHLOROETHENE	ND	5	.86
,2-DICHLOROETHANE	ND	5	.95
1,2-DICHLOROPROPANE	ND	5	.73
-BUTANONE	ND	50	6.7
-CHLOROETHYLVINYLETHER	ND	50	1.3
-HEXANONE	ND	50	5.6
4-METHYL-2-PENTANONE	ND	50	3.6
ACETONE	ND	50	9.6
ENZENE	ND	5	.77
ROMODICHLOROMETHANE	ND	5	.82
BROMOFORM	ND	5	.74
BROMOMETHANE	ND	5	1.9
CARBON DISULFIDE	ND	5	.61
ARBON TETRACHLORIDE	ND	5	.83
HLOROBENZENE	ND	5	1.1
CHLOROETHANE	ND	5	1.7
CHLOROFORM	ND	5	.67
OROMETHANE	ND	5	.67
1,2-DICHLOROETHENE	ND	5	.79
S-1,3-DICHLOROPROPENE	ND	5	.79
DIBROMOCHLOROMETHANE	ND	5	.71
ETHYLBENZENE	ND	5	1
TBE	ND	10	.77
ETHYLENE CHLORIDE	ND	5	1.4
STYRENE	ND	5	.87
TETRACHLOROETHENE	ND	5	1.1
TOLUENE	ND	5	.99
RANS-1,2-DICHLOROETHENE	ND	5	.73
RANS-1,3-DICHLOROPROPENE	ND	5	.82
TRICHLOROETHENE	ND	5	.89
VINYL ACETATE	ND	50	1.4
INYL CHLORIDE	ND	5	2.5
YLENES	ND	5	3.1

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	91	62-139
BROMOFLUOROBENZENE	100	75-125
TOLUENE-D8	98	75-125

PRL: Project Reporting Limit
* : Out side of QC Limit
J : An estimated value between PRL and MDL
E : Value exceed the upper level of the initial calibration
B : Found in the associated blank
D : Value from dilution analysis

METHOD 5030A/8260A
VOLATILE ORGANICS BY GC/MS

Client	: IT CORPORATION	Date Collected:	11/30/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	11/30/00
Batch No.	: 00K268	Date Extracted:	12/05/00 13:59
Sample ID:	18609-3700	Date Analyzed:	12/05/00 13:59
Lab Samp ID:	K268-02	Dilution Factor:	1
Lab File ID:	RLP056	Matrix :	WATER
Ext Btch ID:	VOL0402	% Moisture :	NA
Calib. Ref.:	RLP050	Instrument ID :	T-002

PARAMETERS	RESULTS (ug/L)	PRL (ug/L)	MDL (ug/L)
1,1,1-TRICHLOROETHANE	ND	5	.91
1,1,2,2-TETRACHLOROETHANE	ND	5	1.1
1,1,2-TRICHLOROETHANE	ND	5	.83
1,1-DICHLOROETHANE	ND	5	.65
1,1-DICHLOROETHENE	ND	5	.86
1,2-DICHLOROETHANE	ND	5	.95
1,2-DICHLOROPROPANE	ND	5	.73
2-BUTANONE	ND	50	6.7
2-CHLOROETHYLVINYLETHER	ND	50	1.3
2-HEXANONE	ND	50	5.6
4-METHYL-2-PENTANONE	ND	50	3.6
ACETONE	ND	50	9.6
BENZENE	ND	5	.77
BROMODICHLOROMETHANE	ND	5	.82
BROMOFORM	ND	5	.74
BROMOMETHANE	ND	5	1.9
CARBON DISULFIDE	ND	5	.61
CARBON TETRACHLORIDE	ND	5	.83
CHLOROBENZENE	ND	5	1.1
CHLOROETHANE	ND	5	1.7
CHLOROFORM	ND	5	.67
CHLOROMETHANE	ND	5	.67
CIS-1,2-DICHLOROETHENE	ND	5	.79
CIS-1,3-DICHLOROPROPENE	ND	5	.79
DIBROMOCHLOROMETHANE	ND	5	.71
ETHYLBENZENE	ND	5	1
MTBE	ND	10	.77
METHYLENE CHLORIDE	ND	5	1.4
STYRENE	ND	5	.87
TETRACHLOROETHENE	ND	5	1.1
TOLUENE	ND	5	.99
TRANS-1,2-DICHLOROETHENE	ND	5	.73
TRANS-1,3-DICHLOROPROPENE	ND	5	.82
TRICHLOROETHENE	ND	5	.89
VINYL ACETATE	ND	50	1.4
VINYL CHLORIDE	ND	5	2.5
XYLENES	ND	5	3.1

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	94	62-139
BROMOFLUOROBENZENE	100	75-125
TOLUENE-D8	97	75-125

PRL: Project Reporting Limit
* : Out side of QC Limit
J : An estimated value between PRL and MDL
E : Value exceed the upper level of the initial calibration
B : Found in the associated blank
D : Value from dilution analysis

METHOD 5030A/8260A
VOLATILE ORGANICS BY GC/MS

nt	: IT CORPORATION	Date Collected:	11/30/00
ect	: MCAS EL TORO/18609/D.O. 70	Date Received:	11/30/00
atch No.	: 00K268	Date Extracted:	12/05/00 14:34
ample ID:	18609-3701	Date Analyzed:	12/05/00 14:34
ab Samp ID:	K268-03	Dilution Factor:	1
Lab File ID:	RLP057	Matrix :	WATER
Ext Btch ID:	VOL0402	% Moisture :	NA
alib. Ref.:	RLP050	Instrument ID :	T-002

PARAMETERS	RESULTS (ug/L)	PRL (ug/L)	MDL (ug/L)
,1,1-TRICHLOROETHANE	ND	5	.91
1,1,2,2-TETRACHLOROETHANE	ND	5	1.1
1,1,2-TRICHLOROETHANE	ND	5	.83
,1-DICHLOROETHANE	ND	5	.65
,1-DICHLOROETHENE	ND	5	.86
,2-DICHLOROETHANE	ND	5	.95
1,2-DICHLOROPROPANE	ND	5	.73
2-BUTANONE	ND	50	6.7
-CHLOROETHYLVINYLETHER	ND	50	1.3
-HEXANONE	ND	50	5.6
4-METHYL-2-PENTANONE	ND	50	3.6
ACETONE	ND	50	9.6
ENZENE	ND	5	.77
ROMODICHLOROMETHANE	ND	5	.82
ROMOFORM	ND	5	.74
BROMOMETHANE	ND	5	1.9
CARBON DISULFIDE	ND	5	.61
ARBON TETRACHLORIDE	ND	5	.83
HLOROBENZENE	ND	5	1.1
HLOROETHANE	ND	5	1.7
CHLOROFORM	ND	5	.67
OROMETHANE	ND	5	.67
1,2-DICHLOROETHENE	ND	5	.79
-1,3-DICHLOROPROPENE	ND	5	.79
DIBROMOCHLOROMETHANE	ND	5	.71
ETHYLBENZENE	ND	5	1
ITBE	ND	10	.77
IETHYLENE CHLORIDE	ND	5	1.4
STYRENE	ND	5	.87
TETRACHLOROETHENE	ND	5	1.1
TOLUENE	ND	5	.99
RANS-1,2-DICHLOROETHENE	ND	5	.73
RANS-1,3-DICHLOROPROPENE	ND	5	.82
TRICHLOROETHENE	ND	5	.89
VINYL ACETATE	ND	50	1.4
INYL CHLORIDE	ND	5	2.5
YLENES	ND	5	3.1

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	94	62-139
BROMOFLUOROBENZENE	99	75-125
TOLUENE-D8	98	75-125

PRL: Project Reporting Limit
* : Out side of QC Limit
J : An estimated value between PRL and MDL
E : Value exceed the upper level of the initial calibration
B : Found in the associated blank
D : Value from dilution analysis

METHOD 5030A/8260A
VOLATILE ORGANICS BY GC/MS

Client	: IT CORPORATION	Date Collected:	11/30/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	11/30/00
Batch No.	: 00K268	Date Extracted:	12/05/00 15:09
Sample ID:	18609-3702	Date Analyzed:	12/05/00 15:09
Lab Samp ID:	K268-04	Dilution Factor:	1
Lab File ID:	RLP058	Matrix :	WATER
Ext Btch ID:	VOL0402	% Moisture :	NA
Calib. Ref.:	RLP050	Instrument ID :	T-002

PARAMETERS	RESULTS (ug/L)	PRL (ug/L)	MDL (ug/L)
1,1,1-TRICHLOROETHANE	ND	5	.91
1,1,2,2-TETRACHLOROETHANE	ND	5	1.1
1,1,2-TRICHLOROETHANE	ND	5	.83
1,1-DICHLOROETHANE	ND	5	.65
1,1-DICHLOROETHENE	ND	5	.86
1,2-DICHLOROETHANE	ND	5	.95
1,2-DICHLOROPROPANE	ND	5	.73
2-BUTANONE	ND	50	6.7
2-CHLOROETHYLVINYLETHER	ND	50	1.3
2-HEXANONE	ND	50	5.6
4-METHYL-2-PENTANONE	ND	50	3.6
ACETONE	ND	50	9.6
BENZENE	ND	5	.77
BROMODICHLOROMETHANE	ND	5	.82
BROMOFORM	ND	5	.74
BROMOMETHANE	ND	5	1.9
CARBON DISULFIDE	ND	5	.61
CARBON TETRACHLORIDE	ND	5	.83
CHLOROBENZENE	ND	5	1.1
CHLOROETHANE	ND	5	1.7
CHLOROFORM	ND	5	.67
CHLOROMETHANE	ND	5	.67
CIS-1,2-DICHLOROETHENE	ND	5	.79
CIS-1,3-DICHLOROPROPENE	ND	5	.79
DIBROMOCHLOROMETHANE	ND	5	.71
ETHYLBENZENE	ND	5	1
MTBE	ND	10	.77
METHYLENE CHLORIDE	ND	5	1.4
STYRENE	ND	5	.87
TETRACHLOROETHENE	ND	5	1.1
TOLUENE	ND	5	.99
TRANS-1,2-DICHLOROETHENE	ND	5	.73
TRANS-1,3-DICHLOROPROPENE	ND	5	.82
TRICHLOROETHENE	ND	5	.89
VINYL ACETATE	ND	50	1.4
VINYL CHLORIDE	ND	5	2.5
XYLENES	ND	5	3.1

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	95	62-139
BROMOFLUOROBENZENE	99	75-125
TOLUENE-D8	97	75-125

PRL: Project Reporting Limit
* : Out side of QC Limit
J : An estimated value between PRL and MDL
E : Value exceed the upper level of the initial calibration
B : Found in the associated blank
D : Value from dilution analysis

METHOD 5030A/8260A
VOLATILE ORGANICS BY GC/MS

ent	: IT CORPORATION	Date Collected:	NA
ect	: MCAS EL TORO/18609/D.O. 70	Date Received:	12/05/00
atch No.	: 00K268	Date Extracted:	12/05/00 12:49
ample ID:	MBLK1W	Date Analyzed:	12/05/00 12:49
ab Samp ID:	VOL0402B	Dilution Factor:	1
Lab File ID:	RLP054	Matrix :	WATER
Ext Btch ID:	VOL0402	% Moisture :	NA
alib. Ref.:	RLP050	Instrument ID :	T-002

PARAMETERS	RESULTS (ug/L)	PRL (ug/L)	MDL (ug/L)
,1,1-TRICHLOROETHANE	ND	5	.91
1,1,2,2-TETRACHLOROETHANE	ND	5	1.1
1,1,2-TRICHLOROETHANE	ND	5	.83
,1-DICHLOROETHANE	ND	5	.65
,1-DICHLOROETHENE	ND	5	.86
,2-DICHLOROETHANE	ND	5	.95
1,2-DICHLOROPROPANE	ND	5	.73
2-BUTANONE	ND	50	6.7
-CHLOROETHYLVINYLETHER	ND	50	1.3
-HEXANONE	ND	50	5.6
4-METHYL-2-PENTANONE	ND	50	3.6
ACETONE	ND	50	9.6
ENZENE	ND	5	.77
ROMODICHLOROMETHANE	ND	5	.82
ROMOFORM	ND	5	.74
BROMOMETHANE	ND	5	1.9
CARBON DISULFIDE	ND	5	.61
ARBON TETRACHLORIDE	ND	5	.83
HLOROBENZENE	ND	5	1.1
CHLOROETHANE	ND	5	1.7
CHLOROFORM	ND	5	.67
HLOROMETHANE	ND	5	.67
-1,2-DICHLOROETHENE	ND	5	.79
-1,3-DICHLOROPROPENE	ND	5	.79
DIBROMOCHLOROMETHANE	ND	5	.71
ETHYLBENZENE	ND	5	1
TBE	ND	10	.77
ETHYLENE CHLORIDE	ND	5	1.4
STYRENE	ND	5	.87
TETRACHLOROETHENE	ND	5	1.1
TOLUENE	ND	5	.99
RANS-1,2-DICHLOROETHENE	ND	5	.73
RANS-1,3-DICHLOROPROPENE	ND	5	.82
TRICHLOROETHENE	ND	5	.89
VINYL ACETATE	ND	50	1.4
INYL CHLORIDE	ND	5	2.5
KYLENES	ND	5	3.1

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	99	62-139
BROMOFLUOROBENZENE	108	75-125
TOLUENE-D8	103	75-125

PRL: Project Reporting Limit
* : Out side of QC Limit
J : An estimated value between PRL and MDL
E : Value exceed the upper level of the initial calibration
B : Found in the associated blank
D : Value from dilution analysis

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
BATCH NO.: 00K268
METHOD: METHOD 5030A/8260A

MATRIX:	WATER			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK1W				
LAB SAMP ID:	VOL0402B	VOL0402L	VOL0402C		
LAB FILE ID:	RLP054	RLP052	RLP053		
DATE EXTRACTED:	12/05/0012:49	12/05/0011:40	12/05/0012:15	DATE COLLECTED:	NA
DATE ANALYZED:	12/05/0012:49	12/05/0011:40	12/05/0012:15	DATE RECEIVED:	12/05/00
PREP. BATCH:	VOL0402	VOL0402	VOL0402		
CALIB. REF:	RLP050	RLP050	RLP050		

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
1,1-Dichloroethene	ND	20	19.7	98	20	19.4	97	1	75-125	20
Benzene	ND	20	20.6	103	20	20.3	102	1	75-125	20
Chlorobenzene	ND	20	20.3	102	20	19.9	100	2	75-125	20
Toluene	ND	20	20.3	101	20	19.8	99	3	74-125	20
Trichloroethene	ND	20	19.5	98	20	19.1	96	2	71-125	20

SURROGATE PARAMETER	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	QC LIMIT (%)
1,2-Dichlorethane-d4	50	49.3	99	50	50	100	62-139
Bromofluorobenzene	50	52.3	105	50	53.4	107	75-125
Toluene-d8	50	52.1	104	50	52.3	105	75-125

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

ITENT: IT CORPORATION
ECT: MCAS EL TORO/18609/D.O. 70
CH NO.: 00K268
ETHOD: METHOD 5030A/8260A

MATRIX:	WATER			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
AMPLE ID:	18609-3700				
AB SAMP ID:	K268-02	K268-02M	K268-02S		
LAB FILE ID:	RLP056	RLP059	RLP060		
DATE EXTRACTED:	12/05/0013:59	12/05/0015:44	12/05/0016:18	DATE COLLECTED:	11/30/00
ATE ANALYZED:	12/05/0013:59	12/05/0015:44	12/05/0016:18	DATE RECEIVED:	11/30/00
REP. BATCH:	VOL0402	VOL0402	VOL0402		
ALIB. REF:	RLP050	RLP050	RLP050		

ACCESSION:

PARAMETER	SMPL RSLT (ug/L)	SPIKE AMT (ug/L)	MS RSLT (ug/L)	MS % REC	SPIKE AMT (ug/L)	MSD RSLT (ug/L)	MSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
,1-Dichloroethene	ND	50	47.8	96	50	48.7	97	2	75-125	20
enzene	ND	50	48.8	98	50	48.5	97	0	75-125	20
hlorobenzene	ND	50	47.6	95	50	47.6	95	0	75-125	20
Toluene	ND	50	47.9	96	50	48	96	0	74-125	20
Trichloroethene	ND	50	46.9	94	50	47.8	96	2	71-125	20

URROGATE PARAMETER	SPIKE AMT (ug/L)	MS RSLT (ug/L)	MS % REC	SPIKE AMT (ug/L)	MSD RSLT (ug/L)	MSD % REC	QC LIMIT (%)
1,2-Dichlorethane-d4	50	49.9	100	50	50.1	100	62-139
Bromofluorobenzene	50	50.9	102	50	50.7	101	75-125
uene-d8	50	49.6	99	50	49.7	99	75-125

* : Out side of QC Limit

METHOD 3010A/6010B
METALS BY ICP

Client	: IT CORPORATION	Date Collected:	11/30/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	11/30/00
SDG NO.	: 00K268	Date Extracted:	12/05/00 16:00
Sample ID:	18609-3700	Date Analyzed:	12/06/00 19:43
Lab Samp ID:	K268-02	Dilution Factor:	1
Lab File ID:	I07L017030	Matrix :	WATER
Ext Btch ID:	IPL010W	% Moisture :	NA
Calib. Ref.:	I07L017020	Instrument ID :	EMAXTI07

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
Aluminum	ND	500	46.3
Antimony	ND	500	27.5
Barium	83.3J	100	1.02
Beryllium	ND	10	.62
Cadmium	ND	10	4.24
Calcium	89200	5000	91.7
Chromium	ND	50	4.69
Cobalt	ND	50	9.06
Copper	5.03J	50	2.67
Iron	112J	200	10.5
Magnesium	68600	5000	81.2
Manganese	625	20	1.49
Molybdenum	37.3J	100	9.34
Nickel	19.6J	150	8.9
Potassium	3090J	5000	1970
Silver	6.84J	50	4.49
Sodium	113000	5000	417
Vanadium	29.5J	100	3.75
Zinc	17.8J	20	5.8

RL: Reporting Limit

METHOD 3010A/6010B
METALS BY TRACE-ICP

Client	: IT CORPORATION	Date Collected:	11/30/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	11/30/00
SDG NO.	: 00K268	Date Extracted:	12/05/00 16:00
Sample ID:	18609-3700	Date Analyzed:	12/06/00 22:27
Lab Samp ID:	K268-02	Dilution Factor:	1
Lab File ID:	I31L010016	Matrix :	WATER
Ext Btch ID:	IPL010W	% Moisture :	NA
Calib. Ref.:	I31L010008	Instrument ID :	EMAXTI31

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
Arsenic	6.01J	10	2.43
Lead	ND	10	1.33
Selenium	6.57J	10	1.6
Thallium	ND	400	4.74

RL: Reporting Limit

METHOD 3010A/6010B
METALS BY ICP

Client	: IT CORPORATION	Date Collected:	11/30/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	11/30/00
SDG NO.	: 00K268	Date Extracted:	12/05/00 16:00
Sample ID:	18609-3702	Date Analyzed:	12/06/00 19:48
Lab Samp ID:	K268-04	Dilution Factor:	1
Lab File ID:	I07L017031	Matrix :	WATER
Ext Btch ID:	IPL010W	% Moisture :	NA
Calib. Ref.:	I07L017020	Instrument ID :	EMAXTI07

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
Aluminum	ND	500	46.3
Antimony	ND	500	27.5
Barium	3.16J	100	1.02
Beryllium	ND	10	.62
Cadmium	ND	10	4.24
Calcium	3140J	5000	91.7
Chromium	ND	50	4.69
Cobalt	ND	50	9.06
Copper	ND	50	2.67
Iron	40.2J	200	10.5
Magnesium	1210J	5000	81.2
Manganese	1.7J	20	1.49
Molybdenum	ND	100	9.34
Nickel	ND	150	8.9
Potassium	ND	5000	1970
Silver	ND	50	4.49
Sodium	3960J	5000	417
Vanadium	ND	100	3.75
Zinc	6.59J	20	5.8

RL: Reporting Limit

METHOD 3010A/6010B
METALS BY TRACE-ICP

Client	: IT CORPORATION	Date Collected:	11/30/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	11/30/00
SDG NO.	: 00K268	Date Extracted:	12/05/00 16:00
Sample ID:	18609-3702	Date Analyzed:	12/06/00 22:36
Lab Samp ID:	K268-04	Dilution Factor:	1
Lab File ID:	I31L010018	Matrix :	WATER
Ext Btch ID:	IPL010W	% Moisture :	NA
Calib. Ref.:	I31L010008	Instrument ID :	EMAXTI31

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
Arsenic	ND	10	2.43
Lead	ND	10	1.33
Selenium	ND	10	1.6
Thallium	ND	400	4.74

RL: Reporting Limit

METHOD 3010A/6010B
METALS BY ICP

Client	: IT CORPORATION	Date Collected:	NA
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	12/05/00
SDG NO.	: 00K268	Date Extracted:	12/05/00 16:00
Sample ID:	MBLK1W	Date Analyzed:	12/06/00 19:15
Lab Samp ID:	IPL010WB	Dilution Factor:	1
Lab File ID:	I07L017024	Matrix :	WATER
Ext Btch ID:	IPL010W	% Moisture :	NA
Calib. Ref.:	I07L017020	Instrument ID :	EMAXTI07

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
Aluminum	62.2J	500	46.3
Antimony	ND	500	27.5
Barium	ND	100	1.02
Beryllium	ND	10	.62
Cadmium	ND	10	4.24
Calcium	ND	5000	91.7
Chromium	ND	50	4.69
Cobalt	ND	50	9.06
Copper	ND	50	2.67
Iron	92.8J	200	10.5
Magnesium	ND	5000	81.2
Manganese	2.05J	20	1.49
Molybdenum	ND	100	9.34
Nickel	ND	150	8.9
Potassium	ND	5000	1970
Silver	ND	50	4.49
Sodium	ND	5000	417
Vanadium	ND	100	3.75
Zinc	ND	20	5.8

RL: Reporting Limit

METHOD 3010A/6010B
METALS BY TRACE-ICP

Client	: IT CORPORATION	Date Collected:	NA
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	12/05/00
SDG NO.	: 00K268	Date Extracted:	12/05/00 16:00
Sample ID:	MBLK1W	Date Analyzed:	12/06/00 21:58
Lab Samp ID:	IPL010WB	Dilution Factor:	1
Lab File ID:	I31L010010	Matrix :	WATER
Ext Btch ID:	IPL010W	% Moisture :	NA
Calib. Ref.:	I31L010008	Instrument ID :	EMAXTI31

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
Arsenic	ND	10	2.43
Lead	ND	10	1.33
Selenium	ND	10	1.6
Thallium	ND	400	4.74

RL: Reporting Limit

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
SDG NO.: 00K268
METHOD: METHOD 3010A/6010B

MATRIX:	WATER			% MOISTURE:	NA
DILTN FACTR:	1	1	1		
SAMPLE ID:	MBLK1W				
CONTROL NO.:	IPL010WB	IPL010WL	IPL010WC		
LAB FILE ID:	I07L017024	I07L017025	I07L017026		
DATIME EXTRCTD:	12/05/0016:00	12/05/0016:00	12/05/0016:00	DATE COLLECTED:	NA
DATIME ANALYZD:	12/06/0019:15	12/06/0019:20	12/06/0019:24	DATE RECEIVED:	12/05/00
PREP. BATCH:	IPL010W	IPL010W	IPL010W		
CALIB. REF:	I07L017020	I07L017020	I07L017020		

ACCESSION:

PARAMETER	BLNK RSLT ug/L	SPIKE AMT ug/L	BS RSLT ug/L	BS % REC	SPIKE AMT ug/L	BSD RSLT ug/L	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Aluminum	62.2J	10000	9830	98	10000	9130	91	7	80-120	20
Antimony	ND	5000	4990	100	5000	4850	97	3	80-120	20
Barium	ND	1000	957	96	1000	893	89	7	80-120	20
Beryllium	ND	1000	946	95	1000	892	89	6	80-120	20
Cadmium	ND	1000	939	94	1000	872	87	7	80-120	20
Calcium	ND	50000	52500	105	50000	48500	97	8	80-120	20
Chromium	ND	1000	956	96	1000	894	89	7	80-120	20
Cobalt	ND	1000	955	95	1000	893	89	7	80-120	20
Copper	ND	1000	944	94	1000	885	89	6	80-120	20
Iron	92.8J	10000	9810	97	10000	9140	90	7	80-120	20
Magnesium	ND	50000	53700	107	50000	48600	97	10	80-120	20
Manganese	2.05J	1000	929	93	1000	866	86	7	80-120	20
Molybdenum	ND	1000	1050	105	1000	968	97	8	80-120	20
Nickel	ND	1000	937	94	1000	881	88	6	80-120	20
Potassium	ND	50000	51800	104	50000	47600	95	8	80-120	20
Silver	ND	1000	958	96	1000	899	90	6	80-120	20
Sodium	ND	50000	53000	106	50000	49100	98	8	80-120	20
Vanadium	ND	1000	954	95	1000	887	89	7	80-120	20
Zinc	ND	1000	963	96	1000	897	90	7	80-120	20

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
G NO.: 00K268
METHOD: METHOD 3010A/6010B

MATRIX:	WATER			% MOISTURE:	NA
DILTN FACTR:	1	1	1		
SAMPLE ID:	MBLK1W				
CONTROL NO.:	IPL010WB	IPL010WL	IPL010WC		
LAB FILE ID:	I31L010010	I31L010011	I31L010012		
DATIME EXTRCTD:	12/05/0016:00	12/05/0016:00	12/05/0016:00	DATE COLLECTED:	NA
DATIME ANALYZD:	12/06/0021:58	12/06/0022:02	12/06/0022:07	DATE RECEIVED:	12/05/00
PREP. BATCH:	IPL010W	IPL010W	IPL010W		
CALIB. REF:	I31L010008	I31L010008	I31L010008		

ACCESSION:

PARAMETER	BLNK RSLT ug/L	SPIKE AMT ug/L	BS RSLT ug/L	BS % REC	SPIKE AMT ug/L	BSD RSLT ug/L	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Arsenic	ND	1000	969	97	1000	894	89	8	80-120	20
Lead	ND	1000	922	92	1000	856	86	7	80-120	20
Selenium	ND	1000	964	96	1000	917	92	5	80-120	20
Thallium	ND	1000	985	98	1000	915	92	7	80-120	20

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
SDG NO.: 00K268
METHOD: METHOD 3010A/6010B

MATRIX:	WATER			% MOISTURE:	NA
DILTN FACTR:	1	1	1		
SAMPLE ID:	18609-3700				
CONTROL NO.:	K268-02	K268-02M	K268-02S		
LAB FILE ID:	I07L017030	I07L017028	I07L017029		
DATIME EXTRCTD:	12/05/0016:00	12/05/0016:00	12/05/0016:00	DATE COLLECTED:	11/30/00
DATIME ANALYZD:	12/06/0019:43	12/06/0019:34	12/06/0019:39	DATE RECEIVED:	11/30/00
PREP. BATCH:	IPL010W	IPL010W	IPL010W		
CALIB. REF:	I07L017020	I07L017020	I07L017020		

ACCESSION:

PARAMETER	SMPL RSLT ug/L	SPIKE AMT ug/L	MS RSLT ug/L	MS % REC	SPIKE AMT ug/L	MSD RSLT ug/L	MSD % REC	RPD %	QC LIMIT %	MAX R %
Aluminum	ND	10000	9070	91	10000	10300	103	13	80-120	
Antimony	ND	5000	4750	95	5000	5370	107	12	80-120	
Barium	83.3J	1000	959	88	1000	1070	99	11	80-120	2
Beryllium	ND	1000	870	87	1000	965	97	10	80-120	2
Cadmium	ND	1000	853	85	1000	979	98	14	80-120	
Calcium	89200	50000	130000	82	50000	147000	115	12	80-120	
Chromium	ND	1000	858	86	1000	975	97	13	80-120	2
Cobalt	ND	1000	861	86	1000	972	97	12	80-120	2
Copper	5.03J	1000	868	86	1000	976	97	12	80-120	
Iron	112J	10000	8940	88	10000	10100	100	13	80-120	
Magnesium	68600	50000	114000	91	50000	129000	121*	12	80-120	2
Manganese	625	1000	1420	80	1000	1610	99	13	80-120	2
Molybdenum	37.3J	1000	969	93	1000	1060	102	9	80-120	
Nickel	19.6J	1000	848	83	1000	961	94	12	80-120	
Potassium	3090J	50000	50700	95	50000	55700	105	9	80-120	2
Silver	6.84J	1000	881	87	1000	60.8	5*	174*	80-120	2
Sodium	113000	50000	157000	87	50000	175000	123*	11	80-120	
Vanadium	29.5J	1000	889	86	1000	1010	98	12	80-120	
Zinc	17.8J	1000	875	86	1000	1010	99	14	80-120	

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
JOB NO.: 00K268
METHOD: METHOD 3010A/6010B

MATRIX:	WATER			% MOISTURE:	NA
DILTN FACTR:	1	1	1		
SAMPLE ID:	18609-3700				
CONTROL NO.:	K268-02	K268-02M	K268-02S		
LAB FILE ID:	I31L010016	I31L010014	I31L010015		
DATIME EXTRCTD:	12/05/0016:00	12/05/0016:00	12/05/0016:00	DATE COLLECTED:	11/30/00
DATIME ANALYZD:	12/06/0022:27	12/06/0022:16	12/06/0022:21	DATE RECEIVED:	11/30/00
PREP. BATCH:	IPL010W	IPL010W	IPL010W		
CALIB. REF:	I31L010008	I31L010008	I31L010008		

ACCESSION:

PARAMETER	SMPL RSLT ug/L	SPIKE AMT ug/L	MS RSLT ug/L	MS % REC	SPIKE AMT ug/L	MSD RSLT ug/L	MSD % REC	RPD %	QC LIMIT %	MAX RPI %
Arsenic	6.01J	1000	878	87	1000	999	99	13	80-120	2
Lead	ND	1000	821	82	1000	934	93	13	80-120	2
Selenium	6.57J	1000	886	88	1000	1020	101	14	80-120	2
Thallium	ND	1000	856	86	1000	1010	101	16	80-120	2

METHOD 7470A
MERCURY BY COLD VAPOR

Client : IT CORPORATION
Project : MCAS EL TORO/18609/D.O. 70
Batch No. : 00K268

Matrix : WATER
Instrument ID : TI023

SAMPLE ID	EMAX SAMPLE ID	RESULTS (ug/L)	DLF	MOIST	RL (ug/L)	MDL (ug/L)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1W	HGL006WB	ND	1	NA	.2	.129	12/06/0010:11	12/05/0018:00	M00L007008	M00L007006	HGL006W	NA	12/05/00
LCS1W	HGL006WL	5.34	1	NA	.2	.129	12/06/0010:14	12/05/0018:00	M00L007009	M00L007006	HGL006W	NA	12/05/00
LCD1W	HGL006WC	5.28	1	NA	.2	.129	12/06/0010:18	12/05/0018:00	M00L007010	M00L007006	HGL006W	NA	12/05/00
18609-3700	K268-02	ND	1	NA	.2	.129	12/06/0010:21	12/05/0018:00	M00L007011	M00L007006	HGL006W	11/30/00	11/30/00
18609-3700MS	K268-02M	3.29	1	NA	.2	.129	12/06/0010:24	12/05/0018:00	M00L007012	M00L007006	HGL006W	11/30/00	11/30/00
18609-3700MSD	K268-02S	3.29	1	NA	.2	.129	12/06/0010:27	12/05/0018:00	M00L007013	M00L007006	HGL006W	11/30/00	11/30/00
18609-3700DL	K268-02T	ND	5	NA	1	.645	12/06/0010:31	12/05/0018:00	M00L007014	M00L007006	HGL006W	11/30/00	11/30/00
18609-3700AS	K268-02A	2.11	1	NA	.2	.129	12/06/0010:34	12/05/0018:00	M00L007015	M00L007006	HGL006W	11/30/00	11/30/00
18609-3702	K268-04	ND	1	NA	.2	.129	12/06/0010:37	12/05/0018:00	M00L007016	M00L007006	HGL006W	11/30/00	11/30/00

RL: Reporting Limit

7026

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

-IENT: IT CORPORATION
ROJECT: MCAS EL TORO/18609/D.O. 70
)G NO.: 00K268
ETHOD: METHOD 7470A

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ATRIX:	WATER			% MOISTURE:	NA
ILTN FACTR:	1	1	1		
AMPLE ID:	MBLK1W				
ONTROL NO.:	HGL006WB	HGL006WL	HGL006WC		
AB FILE ID:	M00L007008	M00L007009	M00L007010		
ATIME EXTRCTD:	12/05/0018:00	12/05/0018:00	12/05/0018:00	DATE COLLECTED:	NA
ATIME ANALYZD:	12/06/0010:11	12/06/0010:14	12/06/0010:18	DATE RECEIVED:	12/05/00
REP. BATCH:	HGL006W	HGL006W	HGL006W		
ALIB. REF:	M00L007006	M00L007006	M00L007006		

CCESSION:

ARAMETER	BLNK RSLT ug/L	SPIKE AMT ug/L	BS RSLT ug/L	BS % REC	SPIKE AMT ug/L	BSD RSLT ug/L	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
ercury	ND	5	5.34	107	5	5.28	106	1	77-120	15

7027

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
SDG NO.: 00K268
METHOD: METHOD 7470A

MATRIX:	WATER			% MOISTURE:	NA
DILTN FACTR:	1	1	1		
SAMPLE ID:	18609-3700				
CONTROL NO.:	K268-02	K268-02M	K268-02S		
LAB FILE ID:	M00L007011	M00L007012	M00L007013		
DATIME EXTRCTD:	12/05/0018:00	12/05/0018:00	12/05/0018:00	DATE COLLECTED:	11/30/00
DATIME ANALYZD:	12/06/0010:21	12/06/0010:24	12/06/0010:27	DATE RECEIVED:	11/30/00
PREP. BATCH:	HGL006W	HGL006W	HGL006W		
CALIB. REF:	M00L007006	M00L007006	M00L007006		

ACCESSION:

PARAMETER	SMPL RSLT ug/L	SPIKE AMT ug/L	MS RSLT ug/L	MS % REC	SPIKE AMT ug/L	MSD RSLT ug/L	MSD % REC	RPD %	QC LIMIT %	MAX RPD %
Mercury	ND	5	3.29	66*	5	3.29	66*	0	77-120	15

* : OUT OF QC LIMITS

7028

METHOD 300.0
NITRATE/NITRITE-N

Client : IT CORPORATION
Project : MCAS EL TORO/18609/D.O. 70
Batch No. : OOK268

Matrix : WATER
Instrument ID : TI006

SAMPLE ID	EMAX SAMPLE ID	RESULTS (mg/L)	DLF	MOIST	RL (mg/L)	MDL (mg/L)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1W	ICL011WB	ND	1	NA	.1	.0206	12/06/0020:40	NA	AL06028A	AL06025A	ICL011W	NA	NA
LCS1W	ICL011WL	4.06	1	NA	.1	.0206	12/06/0020:57	NA	AL06029A	AL06025A	ICL011W	NA	NA
LCD1W	ICL011WC	4.01	1	NA	.1	.0206	12/06/0021:14	NA	AL06030A	AL06025A	ICL011W	NA	NA
18609-3700	K268-02	5.24	10	NA	1	.206	12/06/0022:22	NA	AL06034A	AL06025A	ICL011W	11/30/00	11/30/00
18609-3700DUP	K268-02D	5.32	10	NA	1	.206	12/06/0022:39	NA	AL06035A	AL06025A	ICL011W	11/30/00	11/30/00
18609-3700MS	K268-02M	20.5	10	NA	1	.206	12/06/0022:56	NA	AL06036A	AL06025A	ICL011W	11/30/00	11/30/00
18609-3700MSD	K268-02S	20.6	10	NA	1	.206	12/06/0023:47	NA	AL06039A	AL06037A	ICL011W	11/30/00	11/30/00
18609-3701	K268-03	13.9	10	NA	1	.206	12/07/0000:04	NA	AL06040A	AL06037A	ICL011W	11/30/00	11/30/00
18609-3702	K268-04	1.99	10	NA	1	.206	12/07/0000:21	NA	AL06041A	AL06037A	ICL011W	11/30/00	11/30/00

RL: Reporting Limit

METHOD 300.0
ORTHOPHOSPHATE-P

Client : IT CORPORATION
Project : MCAS EL TORO/18609/D.O. 70
Batch No. : 00K268

Matrix : WATER
Instrument ID : TI006

SAMPLE ID	EMAX SAMPLE ID	RESULTS (mg/L)	DLF	MOIST	RL (mg/L)	MDL (mg/L)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1W	ICL010WB	ND	1	NA	.5	.0322	12/06/0011:36	NA	AL06003A	AL06001A	ICL010W	NA	NA
LCS1W	ICL010WL	2.07	1	NA	.5	.0322	12/06/0011:53	NA	AL06004A	AL06001A	ICL010W	NA	NA
LCD1W	ICL010WC	2.06	1	NA	.5	.0322	12/06/0012:10	NA	AL06005A	AL06001A	ICL010W	NA	NA
18609-3700	K268-02	ND	1	NA	.5	.0322	12/06/0016:26	NA	AL06020A	AL06013A	ICL010W	11/30/00	11/30/00
18609-3700DUP	K268-02D	ND	1	NA	.5	.0322	12/06/0016:43	NA	AL06021A	AL06013A	ICL010W	11/30/00	11/30/00
18609-3700MS	K268-02M	1.74	1	NA	.5	.0322	12/06/0017:04	NA	AL06022A	AL06013A	ICL010W	11/30/00	11/30/00
18609-3700MSD	K268-02S	1.77	1	NA	.5	.0322	12/06/0017:21	NA	AL06023A	AL06013A	ICL010W	11/30/00	11/30/00
18609-3701	K268-03	.183J	1	NA	.5	.0322	12/06/0017:38	NA	AL06024A	AL06013A	ICL010W	11/30/00	11/30/00
18609-3702	K268-04	ND	1	NA	.5	.0322	12/06/0020:23	NA	AL06027A	AL06025A	ICL010W	11/30/00	11/30/00

RL : Reporting Limit

8004

METHOD 300.0
SULFATE

Client : IT CORPORATION
Project : MCAS EL TORO/18609/D.O. 70
Batch No. : 00K268

Matrix : WATER
Instrument ID : TI006

SAMPLE ID	EMAX SAMPLE ID	RESULTS (mg/L)	DLF	MOIST	RL (mg/L)	MDL (mg/L)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1W	ICL010WB	ND	1	NA	.5	.101	12/06/0011:36	NA	AL06003A	AL06001A	ICL010W	NA	NA
LCS1W	ICL010WL	20.2	1	NA	.5	.101	12/06/0011:53	NA	AL06004A	AL06001A	ICL010W	NA	NA
LCD1W	ICL010WC	20.2	1	NA	.5	.101	12/06/0012:10	NA	AL06005A	AL06001A	ICL010W	NA	NA
18609-3702	K268-04	7.57	1	NA	.5	.101	12/06/0020:23	NA	AL06027A	AL06025A	ICL010W	11/30/00	11/30/00
MBLK2W	ICL012WB	ND	1	NA	.5	.101	12/07/0003:12	NA	AL06051A	AL06049A	ICL012W	NA	NA
LCS2W	ICL012WL	21.1	1	NA	.5	.101	12/07/0003:29	NA	AL06052A	AL06049A	ICL012W	NA	NA
LCD2W	ICL012WC	21.3	1	NA	.5	.101	12/07/0003:46	NA	AL06053A	AL06049A	ICL012W	NA	NA
18609-3700	K268-02	135	25	NA	12.5	2.53	12/07/0010:28	NA	AL06076A	AL06073A	ICL012W	11/30/00	11/30/00
18609-3700DUP	K268-02D	135	25	NA	12.5	2.53	12/07/0010:45	NA	AL06077A	AL06073A	ICL012W	11/30/00	11/30/00
18609-3700MS	K268-02M	253	25	NA	12.5	2.53	12/07/0011:02	NA	AL06078A	AL06073A	ICL012W	11/30/00	11/30/00
18609-3701	K268-03	143	25	NA	12.5	2.53	12/07/0011:19	NA	AL06079A	AL06073A	ICL012W	11/30/00	11/30/00

RL : Reporting Limit

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

.IENT: IT CORPORATION
ROJECT: MCAS EL TORO/18609/D.O. 70
ATCH NO.: 00K268
ETHOD: METHOD 300.0

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ATRIX: WATER % MOISTURE: NA
ILUTION FACTOR: 1 1 1
AMPLE ID: MBLK1W
AB SAMP ID: ICL011WB ICL011WL ICL011WC
AB FILE ID: AL06028A AL06029A AL06030A
ATE EXTRACTED: NA NA NA DATE COLLECTED: NA
ATE ANALYZED: 12/06/0020:40 12/06/0020:57 12/06/0021:14 DATE RECEIVED: NA
REP. BATCH: ICL011W ICL011W ICL011W
ALIB. REF: AL06025A AL06025A AL06025A

CCESSION:

ARAMETER	BLNK RSLT (mg/L)	SPIKE AMT (mg/L)	BS RSLT (mg/L)	BS % REC	SPIKE AMT (mg/L)	BSD RSLT (mg/L)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
itrate/Nitrite-N	ND	4	4.06	102	4	4.01	100	2	80-120	20

8007

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
BATCH NO.: 00K268
METHOD: METHOD 300.0

MATRIX:	WATER			% MOISTURE:	NA
DILUTION FACTOR:	10	10	10		
SAMPLE ID:	18609-3700				
LAB SAMP ID:	K268-02	K268-02M	K268-02S		
LAB FILE ID:	AL06034A	AL06036A	AL06039A		
DATE EXTRACTED:	NA	NA	NA	DATE COLLECTED:	11/30/00
DATE ANALYZED:	12/06/0022:22	12/06/0022:56	12/06/0023:47	DATE RECEIVED:	11/30/00
PREP. BATCH:	ICL011W	ICL011W	ICL011W		
CALIB. REF:	AL06025A	AL06025A	AL06037A		

ACCESSION:

PARAMETER	SMPL RSLT (mg/L)	SPIKE AMT (mg/L)	MS RSLT (mg/L)	MS % REC	SPIKE AMT (mg/L)	MSD RSLT (mg/L)	MSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
Nitrate/Nitrite-N	5.24	20	20.5	76*	20	20.6	77*	1	80-120	20

8008

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

:LIENT: IT CORPORATION
'ROJECT: MCAS EL TORO/18609/D.O. 70
:ATCH NO.: 00K268
IETHOD: METHOD 300.0

IATRIX:	WATER			% MOISTURE:	NA
)ILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK1W				
.AB SAMP ID:	ICL010WB	ICL010WL	ICL010WC		
.AB FILE ID:	AL06003A	AL06004A	AL06005A		
)ATE EXTRACTED:	NA	NA	NA	DATE COLLECTED:	NA
)ATE ANALYZED:	12/06/0011:36	12/06/0011:53	12/06/0012:10	DATE RECEIVED:	NA
'REP. BATCH:	ICL010W	ICL010W	ICL010W		
:ALIB. REF:	AL06001A	AL06001A	AL06001A		

\CCESSION:

'ARAMETER	BLNK RSLT (mg/L)	SPIKE AMT (mg/L)	BS RSLT (mg/L)	BS % REC	SPIKE AMT (mg/L)	BSD RSLT (mg/L)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
)rthophosphate-P	ND	2	2.07	103	2	2.06	103	0	80-120	20

8010

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
BATCH NO.: 00K268
METHOD: METHOD 300.0

MATRIX:	WATER			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	18609-3700				
LAB SAMP ID:	K268-02	K268-02M	K268-02S		
LAB FILE ID:	AL06020A	AL06022A	AL06023A		
DATE EXTRACTED:	NA	NA	NA	DATE COLLECTED:	11/30/00
DATE ANALYZED:	12/06/0016:26	12/06/0017:04	12/06/0017:21	DATE RECEIVED:	11/30/00
PREP. BATCH:	ICL010W	ICL010W	ICL010W		
CALIB. REF:	AL06013A	AL06013A	AL06013A		

ACCESSION:

PARAMETER	SMPL RSLT (mg/L)	SPIKE AMT (mg/L)	MS RSLT (mg/L)	MS % REC	SPIKE AMT (mg/L)	MSD RSLT (mg/L)	MSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
Orthophosphate-P	ND	2	1.74	87	2	1.77	89	2	80-120	20

8011

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
BATCH NO.: 00K268
METHOD: METHOD 300.0

MATRIX:	WATER			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK1W				
LAB SAMP ID:	ICL010WB	ICL010WL	ICL010WC		
LAB FILE ID:	AL06003A	AL06004A	AL06005A		
DATE EXTRACTED:	NA	NA	NA	DATE COLLECTED:	NA
DATE ANALYZED:	12/06/0011:36	12/06/0011:53	12/06/0012:10	DATE RECEIVED:	NA
PREP. BATCH:	ICL010W	ICL010W	ICL010W		
CALIB. REF:	AL06001A	AL06001A	AL06001A		

ACCESSION:

PARAMETER	BLNK RSLT (mg/L)	SPIKE AMT (mg/L)	BS RSLT (mg/L)	BS % REC	SPIKE AMT (mg/L)	BSD RSLT (mg/L)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
Sulfate	ND	20	20.2	101	20	20.2	101	0	80-120	20

8013

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
BATCH NO.: 00K268
METHOD: METHOD 300.0

MATRIX:	WATER			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK2W				
LAB SAMP ID:	ICL012WB	ICL012WL	ICL012WC		
LAB FILE ID:	AL06051A	AL06052A	AL06053A		
DATE EXTRACTED:	NA	NA	NA	DATE COLLECTED:	NA
DATE ANALYZED:	12/07/0003:12	12/07/0003:29	12/07/0003:46	DATE RECEIVED:	NA
PREP. BATCH:	ICL012W	ICL012W	ICL012W		
CALIB. REF:	AL06049A	AL06049A	AL06049A		

ACCESSION:

PARAMETER	BLNK RSLT (mg/L)	SPIKE AMT (mg/L)	BS RSLT (mg/L)	BS % REC	SPIKE AMT (mg/L)	BSD RSLT (mg/L)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
Sulfate	ND	20	21.1	105	20	21.3	107	1	80-120	20

EMAX QUALITY CONTROL DATA
MS ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
BATCH NO.: 00K268
METHOD: METHOD 300.0

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MATRIX:	WATER		% MOISTURE:	NA
DILUTION FACTOR:	25	25		
SAMPLE ID:	18609-3700			
LAB SAMP ID:	K268-02	K268-02M		
LAB FILE ID:	AL06076A	AL06078A		
DATE EXTRACTED:	NA	NA	DATE COLLECTED:	11/30/00
DATE ANALYZED:	12/07/0010:28	12/07/0011:02	DATE RECEIVED:	11/30/00
PREP. BATCH:	ICL012W	ICL012W		
CALIB. REF:	AL06073A	AL06073A		

ACCESSION:

PARAMETER	SMPL RSLT (mg/L)	SPIKE AMT (mg/L)	MS RSLT (mg/L)	MS % REC	QC LIMIT (%)
Sulfate	135	125	253	95	80-120

8016

METHOD 310.1
TOTAL ALKALINITY

Client : IT CORPORATION
Project : MCAS EL TORO/18609/D.O. 70
Batch No. : OOK268

Matrix : WATER
Instrument ID : NA

SAMPLE ID	EMAX SAMPLE ID	RESULTS (mg/L)	DLF	MOIST	RL (mg/L)	MDL (mg/L)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1W	ALL001WB	ND	1	NA	5	.469	12/06/0009:00	NA	ALL001W-01	NA	ALL001W	NA	NA
LCS1W	ALL001WL	102	1	NA	5	.469	12/06/0009:15	NA	ALL001W-02	NA	ALL001W	NA	NA
LCD1W	ALL001WC	105	1	NA	5	.469	12/06/0009:30	NA	ALL001W-03	NA	ALL001W	NA	NA
18609-3700	K268-02	407	1	NA	5	.469	12/06/0011:00	NA	ALL001W-09	NA	ALL001W	11/30/00	11/30/00
18609-3701	K268-03	252	1	NA	5	.469	12/06/0011:15	NA	ALL001W-10	NA	ALL001W	11/30/00	11/30/00
18609-3702	K268-04	7.14	1	NA	5	.469	12/06/0011:30	NA	ALL001W-11	NA	ALL001W	11/30/00	11/30/00

RL: Reporting Limit

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
METHOD: METHOD 310.1
MATRIX: WATER
% MOISTURE: NA

BATCH NO.: 00K268
SAMPLE ID: LCS1W/LCD1W
CONTROL NO.: ALL001WL/C

DATE RECEIVED: NA
DATE EXTRACTED: NA
DATE ANALYZED: 12/06/00 09:15/09:30

ACCESSION:

PARAMETER	BLNK RSLT (mg/L)	SPIKE AMT (mg/L)	BS RSLT (mg/L)	BS % REC	SPIKE AMT (mg/L)	BSD RSLT (mg/L)	BSD % REC	RPD %	QC LIMIT %	RPD LIMIT %
Alkalinity	ND	101	102	101	101	105	104	3	80-120	20

8039

EMAX QUALITY CONTROL DATA
MS ANALYSIS

.IENT: IT CORPORATION
:OJECT: MCAS EL TORO/18609/D.O. 70
:THOD: METHOD 310.1
\TRIX: WATER
MOISTURE: NA

\TCH NO.: 00K268 DATE RECEIVED: NA
\MPLE ID: 18609-3694MS DATE EXTRACTED: NA
)NTROL NO.: K253-01M DATE ANALYZED: 12/06/00 10:15

:CESSION:

ARAMETER	SMPL RSLT (mg/L)	SPIKE AMT (mg/L)	MS RSLT (mg/L)	MS % REC	QC LIMIT (%)
lkalinity	343	58.5	397	92	80-120

8040

METHOD 160.1
TOTAL DISSOLVED SOLIDS

Client : IT CORPORATION
Project : MCAS EL TORO/18609/D.O. 70
Batch No. : 00K268

Matrix : WATER
Instrument ID :

SAMPLE ID	EMAX SAMPLE ID	RESULTS (mg/L)	DLF	MOIST	RL (mg/L)	MDL (mg/L)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1W	DSL005WB	ND	1	NA	10	4.33	12/06/0018:30	NA	DSL005W-1	NA	DSL005W	NA	NA
LCS1W	DSL005WL	460	1	NA	10	4.33	12/06/0018:31	NA	DSL005W-2	NA	DSL005W	NA	NA
LCD1W	DSL005WC	435	1	NA	10	4.33	12/06/0018:32	NA	DSL005W-3	NA	DSL005W	NA	NA
18609-3700	K268-02	790	1	NA	10	4.33	12/06/0018:33	NA	DSL005W-4	NA	DSL005W	11/30/00	11/30/00
18609-3701	K268-03	955	1	NA	10	4.33	12/06/0018:34	NA	DSL005W-5	NA	DSL005W	11/30/00	11/30/00
18609-3702	K268-04	40	1	NA	10	4.33	12/06/0018:35	NA	DSL005W-6	NA	DSL005W	11/30/00	11/30/00

RL : Reporting Limit

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
METHOD: METHOD 160.1
MATRIX: WATER
% MOISTURE: NA

BATCH NO.: 00K268
SAMPLE ID: LCS1W/LCD1W
CONTROL NO.: DSL005WL/C

DATE RECEIVED: NA
DATE EXTRACTED: NA
DATE ANALYZED: 12/06/00 18:31/18:32

ACCESSION:

PARAMETER	BLNK RSLT (mg/L)	SPIKE AMT (mg/L)	BS RSLT (mg/L)	BS % REC	SPIKE AMT (mg/L)	BSD RSLT (mg/L)	BSD % REC	RPD %	QC LIMIT %	RPD LIMIT %
TDS	ND	442	460	104	442	435	98	6	80-120	20

8046

METHOD 351.3
TKN

Client : IT CORPORATION
Project : MCAS EL TORO/18609/D.O. 70
Batch No. : 00K268

Matrix : WATER
Instrument ID : I21

SAMPLE ID	EMAX SAMPLE ID	RESULTS (mg/L)	DLF	MOIST	RL (mg/L)	MDL (mg/L)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1W	KNL001WB	ND	1	NA	1	.0255	12/06/0015:07	12/04/0019:45	KNL001W-08	KNL001W-06	KNL001W	NA	12/04/00
LCS1W	KNL001WL	1.68	1	NA	1	.0255	12/06/0015:08	12/04/0019:45	KNL001W-09	KNL001W-06	KNL001W	NA	12/04/00
LCD1W	KNL001WC	1.66	1	NA	1	.0255	12/06/0015:09	12/04/0019:45	KNL001W-10	KNL001W-06	KNL001W	NA	12/04/00
18609-3700	K268-02	ND	1	NA	1	.0255	12/06/0015:15	12/04/0019:45	KNL001W-16	KNL001W-06	KNL001W	11/30/00	11/30/00
18609-3701	K268-03	ND	1	NA	1	.0255	12/06/0015:16	12/04/0019:45	KNL001W-17	KNL001W-06	KNL001W	11/30/00	11/30/00
18609-3702	K268-04	ND	1	NA	1	.0255	12/06/0015:19	12/04/0019:45	KNL001W-20	KNL001W-18	KNL001W	11/30/00	11/30/00

RL : Reporting Limit

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
METHOD: METHOD 351.3
MATRIX: WATER
% MOISTURE: NA

BATCH NO.: 00K268
SAMPLE ID: 18609-3704MS/MSD
CONTROL NO.: L011-02M/S

DATE RECEIVED: NA
DATE EXTRACTED: 12/04/00 19:45
DATE ANALYZED: 12/06/00 15:11/15:12

ACCESSION:

PARAMETER	SMPL RSLT (mg/L)	SPIKE AMT (mg/L)	MS RSLT (mg/L)	MS % REC	SPIKE AMT (mg/L)	MSD RSLT (mg/L)	MSD % REC	RPD %	QC LIMIT %	RPD LIMIT %
TKN	ND	.6	.654	109	.6	.620	103	5	80-120	20

8050

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
METHOD: METHOD 351.3
MATRIX: WATER
% MOISTURE: NA

BATCH NO.: 00K268
SAMPLE ID: LCS1W/LCD1W
CONTROL NO.: KNL001WL/C

DATE RECEIVED: NA
DATE EXTRACTED: 12/04/00 19:45
DATE ANALYZED: 12/06/00 15:08/15:09

ACCESSION:

PARAMETER	BLNK RSLT (mg/L)	SPIKE AMT (mg/L)	BS RSLT (mg/L)	BS % REC	SPIKE AMT (mg/L)	BSD RSLT (mg/L)	BSD % REC	RPD %	QC LIMIT %	RPD LIMIT %
TKN	ND	1.6	1.68	105	1.6	1.66	104	1	80-120	20

8051

METHOD 150.1
PH

Client : IT CORPORATION
Project : MCAS EL TORO/18609/D.O. 70
Batch No. : 00K268

Matrix : WATER
Instrument ID : I053

SAMPLE ID	EMAX SAMPLE ID	RESULTS (pH unit)	DLF	MOIST	RL (pH unit)	MDL (pH unit)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
18609-3700	K268-02	7.22	1	NA	.1	NA	12/01/0011:35	NA	PHL001W-02	NA	PHL001W	11/30/00	11/30/00
18609-3700DUP	K268-02D	7.23	1	NA	.1	NA	12/01/0011:40	NA	PHL001W-03	NA	PHL001W	11/30/00	11/30/00
18609-3702	K268-04	6.92	1	NA	.1	NA	12/01/0011:50	NA	PHL001W-05	NA	PHL001W	11/30/00	11/30/00

RL: Reporting Limit

8056

EMAX QUALITY CONTROL DATA
DUPLICATE ANALYSIS

IENT: IT CORPORATION
OJECT: MCAS EL TORO/18609/D.O. 70
THOD: METHOD 150.1
TRIX: WATER
MOISTURE: NA

==========

.TCH NO.: 00K268 DATE RECEIVED: 11/30/00
.MPLE ID: 18609-3700DUP DATE EXTRACTED: NA
NTROL NO.: K268-02D DATE ANALYZED: 12/01/00 11:40

:CESSION:

.RAMETER	SAMPLE (pH unit)	DUP. SAMPLE (pH unit)	RPD (%)	RPD LIMIT (%)
	7.22	7.23	0	20

8057

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: MCAS El Toro

Collection Date: November 30, 2000

LDC Report Date: January 4, 2001

Matrix: Water

Parameters: Total Petroleum Hydrocarbons as Extractables

Validation Level: NFESC Level C

Laboratory: EMAX Laboratories, Inc.

Sample Delivery Group (SDG): 00K268

Sample Identification

18609-3700
18609-3701
18609-3702
18609-3700MS
18609-3700MSD

Introduction

This data review covers 5 water samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8015 modified for Total Petroleum Hydrocarbons (TPH) as Extractables.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (October 1999) as there are no current guidelines for the method stated above.

A table summarizing all data qualification is provided at the end of this report. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Blank results are summarized in Section III.

Field duplicates are summarized in Section IX.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Calibration

a. Initial Calibration

Initial calibration of compounds was performed as required by the method.

The percent relative standard deviations (%RSD) of calibration factors for compounds were less than or equal to 20.0% .

b. Calibration Verification

Calibration verification was performed at required frequencies. The percent differences (%D) of amounts in continuing standard mixtures were within the 15.0% QC limits.

III. Blanks

Method blanks were reviewed for each matrix as applicable. No total petroleum hydrocarbons as extractable contaminants were found in the method blanks.

IV. Accuracy and Precision Data

a. Surrogate Recovery

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

b. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

c. Laboratory Control Samples

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

V. Target Compound Identification

Raw data were not reviewed for this SDG.

VI. Compound Quantitation and CRQLs

Raw data were not reviewed for this SDG.

VII. System Performance

Raw data were not reviewed for this SDG.

VIII. Overall Assessment of Data

Data flags have been summarized at the end of this report.

IX. Field Duplicates

No field duplicates were identified in this SDG.

X. Field Blanks

No field blanks were identified in this SDG.

MCAS El Toro
Total Petroleum Hydrocarbons as Extractables - Data Qualification Summary - SDG 00K268

No Sample Data Qualified in this SDG

MCAS El Toro
Total Petroleum Hydrocarbons as Extractables - Laboratory Blank Data Qualification Summary - SDG 00K268

No Sample Data Qualified in this SDG

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: MCAS El Toro

Collection Date: November 30, 2000

LDC Report Date: January 4, 2001

Matrix: Water

Parameters: Total Petroleum Hydrocarbons as Gasoline

Validation Level: NFESC Level C

Laboratory: EMAX Laboratories, Inc.

Sample Delivery Group (SDG): 00K268

Sample Identification

18609-3699
18609-3700
18609-3701
18609-3702
18609-3700MS
18609-3700MSD

Introduction

This data review covers 6 water samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8015 modified for Total Petroleum Hydrocarbons (TPH) as Gasoline.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (October 1999) as there are no current guidelines for the method stated above.

A table summarizing all data qualification is provided at the end of this report. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Blank results are summarized in Section III.

Field duplicates are summarized in Section IX.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Calibration

a. Initial Calibration

Initial calibration of compounds was performed as required by the method.

The percent relative standard deviations (%RSD) of calibration factors for compounds were less than or equal to 20.0% .

b. Calibration Verification

Calibration verification was performed at required frequencies. The percent differences (%D) of amounts in continuing standard mixtures were within the 15.0% QC limits.

III. Blanks

Method blanks were reviewed for each matrix as applicable. No total petroleum hydrocarbons as gasoline contaminants were found in the method blanks.

IV. Accuracy and Precision Data

a. Surrogate Recovery

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

b. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

c. Laboratory Control Samples

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

V. Target Compound Identification

Raw data were not reviewed for this SDG.

VI. Compound Quantitation and CRQLs

Raw data were not reviewed for this SDG.

VII. System Performance

Raw data were not reviewed for this SDG.

VIII. Overall Assessment of Data

Data flags have been summarized at the end of this report.

IX. Field Duplicates

No field duplicates were identified in this SDG.

X. Field Blanks

Sample 18609-3699 was identified as a trip blank. No total petroleum hydrocarbons as gasoline contaminants were found in this blank.

MCAS El Toro
Total Petroleum Hydrocarbons as Gasoline - Data Qualification Summary - SDG 00K268

No Sample Data Qualified in this SDG

MCAS El Toro
Total Petroleum Hydrocarbons as Gasoline - Laboratory Blank Data Qualification Summary - SDG 00K268

No Sample Data Qualified in this SDG

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: MCAS El Toro

Collection Date: November 30, 2000

LDC Report Date: December 29, 2000

Matrix: Water

Parameters: Volatiles

Validation Level: NFESC Level C

Laboratory: EMAX Laboratories, Inc.

Sample Delivery Group (SDG): 00K268

Sample Identification

18609-3699
18609-3700
18609-3701
18609-3702
18609-3700MS
18609-3700MSD

Introduction

This data review covers 6 water samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8260A for Volatiles.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (October 1999) as there are no current guidelines for the method stated above.

A table summarizing all data qualification is provided at the end of this report. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Blank results are summarized in Section V.

Field duplicates are summarized in Section XVI.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. GC/MS Instrument Performance Check

Instrument performance was checked at 12 hour intervals.

All ion abundance requirements were met.

III. Initial Calibration

Initial calibration was performed using required standard concentrations.

Percent relative standard deviations (%RSD) were less than or equal to 30.0% for all calibration check compounds and less than or equal to 50.0% for all other compounds.

Average relative response factors (RRF) for all volatile target compounds and system performance check compounds (SPCCs) were within method and validation criteria with the following exceptions:

Date	Compound	RRF (Limits)	Associated Samples	Flag	A or P
11/17/00	Acetone	0.04427 (≥0.05)	All samples in SDG 00K268	J (all detects) R (all non-detects)	A

IV. Continuing Calibration

Continuing calibration was performed at the required frequencies.

All of the continuing calibration percent differences (%D) between the initial calibration RRF and the continuing calibration RRF were less than or equal to 25.0% for all calibration check compounds and less than or equal to 50.0% for all other compounds.

All of the continuing calibration RRF values were within method and validation criteria with the following exceptions:

Date	Compound	RRF (Limits)	Associated Samples	Flag	A or P
12/12/00	Acetone	0.03632 (≥0.05)	All samples in SDG 00K268	J (all detects) R (all non-detects)	A

V. Blanks

Method blanks were reviewed for each matrix as applicable. No volatile contaminants were found in the method blanks.

VI. Surrogate Spikes

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

VII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

IX. Regional Quality Assurance and Quality Control

Not applicable.

X. Internal Standards

All internal standard areas and retention times were within QC limits.

XI. Target Compound Identifications

Raw data were not reviewed for this SDG.

XII. Compound Quantitation and CRQLs

Raw data were not reviewed for this SDG.

XIII. Tentatively Identified Compounds (TICs)

Raw data were not reviewed for this SDG.

XIV. System Performance

Raw data were not reviewed for this SDG.

XV. Overall Assessment of Data

Data flags have been summarized at the end of the report.

XVI. Field Duplicates

No field duplicates were identified in this SDG.

XVII. Field Blanks

Sample 18609-3699 was identified as a trip blank. No volatile contaminants were found in this blank.

MCAS El Toro
Volatiles - Data Qualification Summary - SDG 00K268

SDG	Sample	Compound	Flag	A or P	Reason
00K268	18609-3699 18609-3700 18609-3701 18609-3702	Acetone	J (all detects) R (all non-detects)	A	Initial calibration (RRF)
00K268	18609-3699 18609-3700 18609-3701 18609-3702	Acetone	J (all detects) R (all non-detects)	A	Continuing calibration (RRF)

MCAS El Toro
Volatiles - Laboratory Blank Data Qualification Summary - SDG 00K268

No Sample Data Qualified in this SDG

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name:	MCAS El Toro
Collection Date:	November 30, 2000
LDC Report Date:	January 2, 2001
Matrix:	Water
Parameters:	Metals
Validation Level:	NFESC Level C
Laboratory:	EMAX Laboratories, Inc.
Sample Delivery Group (SDG):	00K268

Sample Identification

18609-3700
18609-3702
18609-3700MS
18609-3700MSD

Introduction

This data review covers 4 water samples listed on the cover sheet inc uding dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Methods 6010 and 7000 for Metals. The metals analyzed were Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Manganese, Magnesium, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Vanadium, and Zinc.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review (February 1994) as there are no current guidelines for the methods stated above.

A table summarizing all data qualification flags is provided at the end of this report. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from specified protocols or is of technical advisory nature.

Blanks are summarized in Section III.

Field duplicates are summarized in Section XIII.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Calibration

An initial calibration was performed.

The frequency and analysis criteria of the initial calibration verification (ICV) and continuing calibration verification (CCV) were met.

III. Blanks

Method blanks were reviewed for each matrix as applicable.

Data qualification by the initial, continuing and preparation blanks (ICB/CCB/PBs) was based on the maximum contaminant concentration in the ICB/CCB/PBs in the analysis of each analyte. No contaminant concentrations were found above the reporting limit in the initial, continuing and preparation blanks with the following exceptions:

Method Blank ID	Analyte	Maximum Concentration	Associated Samples
PB (prep blank)	Aluminum Iron Manganese	62.2 ug/L 92.8 ug/L 2.05 ug/L	All samples in SDG 00K268
ICB/CCB	Lead Silver	1.24 ug/L 7.41 ug/L	All samples in SDG 00K268

Sample concentrations were compared to the maximum contaminant concentrations detected in the ICB/CCB/PBs. The sample concentrations were either not detected or were significantly greater (>5X blank contaminants) than the concentrations found in the associated method blanks with the following exceptions:

Sample	Analyte	Reported Concentration	Modified Final Concentration
18609-3700	Iron Silver	112 ug/L 6.84 ug/L	112U ug/L 6.84U ug/L
18609-3702	Iron Manganese	40.2 ug/L 1.7 ug/L	40.2U ug/L 1.7U ug/L

IV. ICP Interference Check Sample (ICS) Analysis

The frequency of analysis was met.

The criteria for analysis were met.

V. Matrix Spike Analysis

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits with the following exceptions:

Spike ID (Associated Samples)	Analyte	MS (%R) (Limits)	MSD (%R) (Limits)	RPD (Limits)	Flag	A or P
18609-3700MS/MSD (All samples in SDG 00K268)	Mercury	66 (75-125)	66 (75-125)	-	J (all detects) UJ (all non-detects)	A
18609-3700MS/MSD (All samples in SDG 00K268)	Silver	-	5 (80-120)	174 (≤20)	J (all detects) R (all non-detects)	A

VI. Duplicate Sample Analysis

Duplicate (DUP) sample analyses were reviewed for each matrix as applicable.

VII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

VIII. Internal Standards (ICP-MS)

ICP-MS was not utilized in this SDG.

IX. Furnace Atomic Absorption QC

Graphite furnace atomic absorption was not utilized in this SDG.

X. ICP Serial Dilution

Not required by the method.

XI. Sample Result Verification

Raw data were not reviewed for this SDG.

XII. Overall Assessment of Data

Data flags have been summarized at the end of this report.

XIII. Field Duplicates

No field duplicates were identified in this SDG.

XIV. Field Blanks

No field blanks were identified in this SDG.

MCAS El Toro
Metals - Data Qualification Summary - SDG 00K268

SDG	Sample	Analyte	Flag	A or P	Reason
00K268	18609-3700 ms/msD 18609-3702	Mercury	J (all detects) UJ (all non-detects)	A	Matrix spike/Matrix spike duplicates (%R)
00K268	18609-3700 18609-3702	Silver	J (all detects) R (all non-detects)	A	Matrix spike/Matrix spike duplicates (RPD)

MCAS El Toro
Metals - Laboratory Blank Data Qualification Summary - SDG 00K268

SDG	Sample	Analyte	Modified Final Concentration	A or P
00K268	18609-3700	Iron Silver	112U ug/L 6.84U ug/L	A
00K268	18609-3702	Iron Manganese	40.2U ug/L 1.7U ug/L	A

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: MCAS El Toro

Collection Date: November 30, 2000

LDC Report Date: January 2, 2001

Matrix: Water

Parameters: Wet Chemistry

Validation Level: NFESC Level C

Laboratory: EMAX Laboratories, Inc.

Sample Delivery Group (SDG): 00K268

Sample Identification

18609-3700
18609-3701
18609-3702
18609-3700MS
18609-3700MSD
18609-3700DUP

Introduction

This data review covers 6 water samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA Method 150.1 for pH, EPA Method 160.1 for Total Dissolved Solids, EPA Method 300.0 for Nitrate/Nitrite as Nitrogen, Sulfate, and Orthophosphate, EPA Method 310.1 for Alkalinity, and EPA Method 351.3 for Total Kjeldahl Nitrogen.

The review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review (February 1994) as there are no current guidelines for the methods stated above.

A table summarizing all data qualification is provided at the end of this report. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Blank results are summarized in Section III.

Field duplicates are summarized in Section VII.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met with the following exceptions:

Sample	Analyte	Total Time From Sample Collection Until Analysis	Required Holding Time From Sample Collection Until Analysis	Flag	A or P
All samples in SDG 00K268	Orthophosphate	6 days	48 hours	J (all detects) R (all non-detects)	P

Non-detected sample concentrations were qualified as unusable (R) due to a gross exceedance (>2X) of holding time.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Calibration

a. Initial Calibration

All criteria for the initial calibration of each method were met with the following exceptions:

Sample	Analyte	Finding	Criteria	Flag	A or P
All samples in SDG 00K268	Sulfate Nitrate/Nitrite as N Orthophosphate Total kjeldahl nitrogen	A blank was not used to establish the calibration curve.	A blank must be used to establish the calibration curve.	None None None None	P

b. Calibration Verification

Calibration verification frequency and analysis criteria were met for each method when applicable.

III. Blanks

Method blanks were reviewed for each matrix as applicable. No contaminant concentrations were found in the method blanks.

IV. Accuracy and Precision Data

a. Matrix Spike/(Matrix Spike) Duplicates

Matrix spike (MS) samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

Duplicate (DUP) sample analyses were reviewed for each matrix as applicable. Relative percent differences (RPD) were within QC limits.

b. Laboratory Control Samples

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

V. Sample Result Verification

Raw data were not reviewed for this SDG.

VI. Overall Assessment of Data

Data flags are summarized at the end of this report.

VII. Field Duplicates

No field duplicates were identified in this SDG.

VIII. Field Blanks

No field blanks were identified in this SDG.

MCAS El Toro
Wet Chemistry - Data Qualification Summary - SDG 00K268

SDG	Sample	Analyte	Flag	A or P	Reason
00K268	18609-3700 18609-3701 18609-3702	Orthophosphate	J (all detects) R (all non-detects)	P	Technical holding times
00K268	18609-3700 18609-3701 18609-3702	Nitrate/Nitrite as N Sulfate Orthophosphate Total kjeldahl nitrogen	None None None None	P	Initial calibration

MCAS El Toro
Wet Chemistry - Laboratory Blank Data Qualification Summary - SDG 00K268

No Sample Data Qualified in this SDG

COMPLETED GW 12/5/00 LG 12/3/00

the IT group

IT Corporation
2790 Mosside Blvd.
Monroeville, PA 15146-2792
(412)372-7701

CHAIN-OF-CUSTODY RECORD

PROJECT DATA MANAGER'S COPY

A 12388

TF398-GW (Semi-Annual)

FORM 0019 REV. 9-99

LAB COORDINATOR: M. Gonzalez	LAB COORDINATOR'S PHONE: 949-660-7550	LAB COORDINATOR'S FAX: 949-475-5433	LABORATORY SERVICE ID: 00L011	LABORATORY CONTACT: EMAX	MAIL REPORT (COMPANY NAME): IT Group
PROJECT NAME: Semi Annual GW	PROJECT LOCATION: MCAS El Toro, CA	PROJECT NUMBER: 18609	LABORATORY PHONE: 310-618-8889	LABORATORY FAX: 310-618-0818	RECIPIENT NAME: Dwayne Ishida
PROJECT CONTACT: M. Gonzalez	PROJECT PHONE NUMBER: 949-~~660~~ 451-1666	PROJECT FAX: 949-451-1672	LABORATORY ADDRESS: 630 Maple Ave.		ADDRESS: 3347 Michelson #200
PROJECT ADDRESS: Bldg. 311 MCAS El Toro	CITY, STATE AND ZIP CODE: Santa Ana, CA 92708	CLIENT: SWDIV	CITY, STATE AND ZIP CODE: Torrance, CA 92705		CITY, STATE AND ZIP CODE: Irvine, CA 92612
PROJECT MANAGER: D. Rawal	PROJECT MANAGER'S PHONE: 949-660-7576	PROJECT MANAGER'S FAX: 949-474-8709			

Item	Sample Identifier	Matrix	Date (2000)	Time	Preserved	# of Cont.	QC Level	T.A.T.	Analyses: 8260	TPH-gas	TPH-Diesel	TPH-JPS	TDS: Specific Conductance	SO4, Alk, PO4	TKN, NO4	Comments
1	18609-3703	W	12/1	0800	4°C	~~2~~ 4	3	5 day	X	X		~~X~~	~~X~~	~~X~~	~~X~~	
2	18609-3704	↓	↓	0920	↓	12	3	↓	X	X	X	X	X	X	X	
3	18609-3705	↓	↓	1125	↓	11	3	↓	X	X	X	X	X	X	(X)	(X) Preserv bottle w/ H2SO4 in lab.
4	18609-3706	↓	↓	1230	↓	~~11~~ 18	3	↓	X	X	X	X	X	X	(X)	(X) Add H2SO4 preserv in lab.
5																Hold 18609-3706
6																
7																
8																
9																
10																

W.J. 12/1/00

SAMPLES COLLECTED BY: W. Jefferson

COURIER AND AIR BILL NUMBER: Courier

COOLER TEMPERATURE UPON RECEIPT:

RELINQUISHED BY	RECEIVED BY	DATE	TIME	SAMPLE'S CONDITION UPON RECEIPT
Wayne Jefferson	[signature]	12-1-00	3:00	

Distribution: White - Laboratory (To be returned with Analytical Report); Goldenrod - Project File; Manilla - Project Data Manager

AW

Project Information Section For Project Personnel Only Do Not Submit to Laboratory

TF398-GW Semi Annual

Sample Point Location	G	C	F	QC
① Trip Blank	X			X
② 398-MW-13	X			
③ 398-MW-12	X			
④ Equipment Rinsat	X			X

Comments: due 12/11/00 rec'd 12/12/00

Sample Type: G - Grab, C - Composite, F - Field Sample, QC - Quality Control Sample

6300

EMAX
LABORATORIES, INC.
630 Maple Ave.
Torrance, CA 90503
Telephone: (310) 618-8889
Fax: (310) 618-0818

Date: 12-19-2000
EMAX Batch No.: 00L011

Attn: Dwayne Ishida

IT Corporation
3347 Michelson Dr. # 200
Irvine CA 92612

Subject: Laboratory Report
Project: MCAS El Toro/18609/D.O. 70

Enclosed is the Laboratory report for samples received on 12/01/00. The data reported include :

Sample ID	Control #	Col Date	Matrix	Analysis
18609-3703	L011-01	12/01/00	WATER	VOLATILE ORGANICS BY GC/MS
				TPH GASOLINE
18609-3704	L011-02	12/01/00	WATER	SOLIDS TOTAL DISSOLVED
				SPECIFIC CONDUCTANCE
				SULFATE BY IC
				ALKALINITY
				PHOSPHATE-P
				TPH GASOLINE
				TPH DIESEL
				VOLATILE ORGANICS BY GC/MS
				NITRATE-N BY IC
				TKN
18609-3705	L011-03	12/01/00	WATER	VOLATILE ORGANICS BY GC/MS
				TPH GASOLINE
				TPH DIESEL
				SOLIDS TOTAL DISSOLVED
				SPECIFIC CONDUCTANCE
				SULFATE BY IC
				ALKALINITY
				PHOSPHATE-P
				TKN
				NITRATE-N BY IC
18609-3706	L011-04	12/01/00	WATER	VOLATILE ORGANICS BY GC/MS
				TPH GASOLINE
				TPH DIESEL
				SOLIDS TOTAL DISSOLVED
				SPECIFIC CONDUCTANCE
				SULFATE BY IC
				ALKALINITY
				PHOSPHATE-P
				TKN
				NITRATE-N BY IC

The results are summarized on the following pages.

Please feel free to call if you have any questions concerning these results.

Sincerely yours,

Kam Y. Pang, Ph.D.
Laboratory Director

EMAX LABORATORIES, INC., 630 Maple Ave., Torrance, CA 90503 TEL: (310) 618-8889 FAX: (310) 618-0818

METHOD M8015
TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

Client	: IT CORPORATION	Date Collected:	12/01/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	12/01/00
Batch No.	: 00L011	Date Extracted:	12/04/00 12:00
Sample ID:	18609-3704	Date Analyzed:	12/08/00 09:10
Lab Samp ID:	L011-02	Dilution Factor:	.99
Lab File ID:	TL02049A	Matrix :	WATER
Ext Btch ID:	DSL002W	% Moisture :	NA
Calib. Ref.:	TL02043A	Instrument ID :	GCT050

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
DIESEL	ND	.099	.066
JP5	ND	.5	.13

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
BROMOBENZENE	93	65-135
HEXACOSANE	96	60-145

QC LIMIT : (SOIL) 60-140 55-150
QC LIMIT : (WATER) 65-135 60-145
SURR1 : Bromobenzene
SURR2 : Hexacosane
RL : Reporting Limit

METHOD M8015
TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

Client	: IT CORPORATION	Date Collected:	12/01/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	12/01/00
Batch No.	: 00L011	Date Extracted:	12/04/00 12:00
Sample ID:	18609-3705	Date Analyzed:	12/08/00 10:47
Lab Samp ID:	L011-03	Dilution Factor:	.97
Lab File ID:	TL02051A	Matrix :	WATER
Ext Btch ID:	DSL002W	% Moisture :	NA
Calib. Ref.:	TL02043A	Instrument ID :	GCT050

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
DIESEL	ND	.097	.065
JP5	ND	.49	.13

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
BROMOBENZENE	103	65-135
HEXACOSANE	95	60-145

QC LIMIT : (SOIL) 60-140 55-150
QC LIMIT : (WATER) 65-135 60-145
SURR1 : Bromobenzene
SURR2 : Hexacosane
RL : Reporting Limit

METHOD M8015
TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

Client	: IT CORPORATION	Date Collected:	NA
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	12/04/00
Batch No.	: 00L011	Date Extracted:	12/04/00 12:00
Sample ID:	MBLK1W	Date Analyzed:	12/08/00 06:45
Lab Samp ID:	DSL002WB	Dilution Factor:	1
Lab File ID:	TL02046A	Matrix :	WATER
Ext Btch ID:	DSL002W	% Moisture :	NA
Calib. Ref.:	TL02043A	Instrument ID :	GCT050

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
DIESEL	ND	.1	.067
JP5	ND	.5	.13

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
BROMOBENZENE	109	65-135
HEXACOSANE	101	60-145

QC LIMIT : (SOIL) 60-140 55-150
QC LIMIT : (WATER) 65-135 60-145
SURR1 : Bromobenzene
SURR2 : Hexacosane
RL : Reporting Limit

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
BATCH NO.: 00L011
METHOD: METHOD M8015

MATRIX: WATER % MOISTURE: NA

DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK1W				
LAB SAMP ID:	DSL002WB	DSL002WL	DSL002WC		
LAB FILE ID:	TL02046A	TL02047A	TL02048A		
DATE EXTRACTED:	12/04/0012:00	12/04/0012:00	12/04/0012:00	DATE COLLECTED:	NA
DATE ANALYZED:	12/08/0006:45	12/08/0007:33	12/08/0008:21	DATE RECEIVED:	12/04/00
PREP. BATCH:	DSL002W	DSL002W	DSL002W		
CALIB. REF:	TL02043A	TL02043A	TL02043A		

ACCESSION:

PARAMETER	BLNK RSLT (mg/L)	SPIKE AMT (mg/L)	BS RSLT (mg/L)	BS % REC	SPIKE AMT (mg/L)	BSD RSLT (mg/L)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
Diesel	ND	5	4.92	98	5	5.01	100	2	61-143	30

SURROGATE PARAMETER	SPIKE AMT (mg/L)	BS RSLT (mg/L)	BS % REC	SPIKE AMT (mg/L)	BSD RSLT (mg/L)	BSD % REC	QC LIMIT (%)
Bromobenzene	1	1.08	108	1	1.15	115	65-135
Hexacosane	.25	.253	101	.25	.258	103	60-145

METHOD 5030B/M8015
TOTAL PETROLEUM HYDROCARBONS BY PURGE & TRAP

Client : IT CORPORATION
Project : MCAS EL TORO/18609/D.O. 70
Batch No. : OOL011

Matrix : WATER
Instrument ID : GCT039

SAMPLE ID	EMAX SAMPLE ID	RESULTS (mg/L)	SURR (%)	DLF	MOIST	RL (mg/L)	MDL (mg/L)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1W	VAL1439B	ND	74	1	NA	.1	.012	12/08/0013:27	12/08/0013:27	EL03039A	EL03031A	VAL1439	NA	12/08/00
LCS1W	VAL1439L	.596	109	1	NA	.1	.012	12/08/0010:35	12/08/0010:35	EL03034A	EL03031A	VAL1439	NA	12/08/00
LCD1W	VAL1439C	.574	110	1	NA	.1	.012	12/08/0011:09	12/08/0011:09	EL03035A	EL03031A	VAL1439	NA	12/08/00
18609-3703	L011-01	ND	89	1	NA	.1	.012	12/08/0017:34	12/08/0017:34	EL03044A	EL03043A	VAL1439	12/01/00	12/04/00
18609-3704	L011-02	ND	91	1	NA	.1	.012	12/08/0018:08	12/08/0018:08	EL03045A	EL03043A	VAL1439	12/01/00	12/04/00
18609-3705	L011-03	ND	87	1	NA	.1	.012	12/08/0018:42	12/08/0018:42	EL03046A	EL03043A	VAL1439	12/01/00	12/04/00
18609-3706	L011-04	ND	89	1	NA	.1	.012	12/08/0019:16	12/08/0019:16	EL03047A	EL03043A	VAL1439	12/01/00	12/04/00
18609-3706MS	L011-04M	.599	107	1	NA	.1	.012	12/08/0019:50	12/08/0019:50	EL03048A	EL03043A	VAL1439	12/01/00	12/04/00
18609-3706MSD	L011-04S	.595	106	1	NA	.1	.012	12/08/0020:24	12/08/0020:24	EL03049A	EL03043A	VAL1439	12/01/00	12/04/00

SURR : Bromofluorobenzene (W)65-135 (S)60-140
PRL : Reporting Limit
E : Value exceed the upper level of the initial calibration
D : Value from dilution

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
TCH NO.: 00L011
THOD: METHOD 5030B/M8015

MATRIX:	WATER			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK1W				
LAB SAMP ID:	VAL1439B	VAL1439L	VAL1439C		
LAB FILE ID:	EL03039A	EL03034A	EL03035A		
DATE EXTRACTED:	12/08/0013:27	12/08/0010:35	12/08/0011:09	DATE COLLECTED:	NA
DATE ANALYZED:	12/08/0013:27	12/08/0010:35	12/08/0011:09	DATE RECEIVED:	12/08/00
PREP. BATCH:	VAL1439	VAL1439	VAL1439		
CALIB. REF:	EL03031A	EL03031A	EL03031A		

ACCESSION:

PARAMETER	BLNK RSLT (mg/L)	SPIKE AMT (mg/L)	BS RSLT (mg/L)	BS % REC	SPIKE AMT (mg/L)	BSD RSLT (mg/L)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
Gasoline	ND	.55	.596	108	.55	.574	104	4	67-136	30

SURROGATE PARAMETER	SPIKE AMT (mg/L)	BS RSLT (mg/L)	BS % REC	SPIKE AMT (mg/L)	BSD RSLT (mg/L)	BSD % REC	QC LIMIT (%)
Bromofluorobenzene	.02	.0219	109	.02	.022	110	65-135

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

LIENT: IT CORPORATION
ROJECT: MCAS EL TORO/18609/D.O. 70
ATCH NO.: 00L011
ETHOD: METHOD 5030B/M8015

ATRIX:	WATER			% MOISTURE:	NA
ILUTION FACTOR:	1	1	1		
AMPLE ID:	18609-3706				
AB SAMP ID:	L011-04	L011-04M	L011-04S		
AB FILE ID:	EL03047A	EL03048A	EL03049A		
ATE EXTRACTED:	12/08/0019:16	12/08/0019:50	12/08/0020:24	DATE COLLECTED:	12/01/00
ATE ANALYZED:	12/08/0019:16	12/08/0019:50	12/08/0020:24	DATE RECEIVED:	12/04/00
REP. BATCH:	VAL1439	VAL1439	VAL1439		
ALIB. REF:	EL03043A	EL03043A	EL03043A		

CCESSION:

ARAMETER	SMPL RSLT (mg/L)	SPIKE AMT (mg/L)	MS RSLT (mg/L)	MS % REC	SPIKE AMT (mg/L)	MSD RSLT (mg/L)	MSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
asoline	ND	.55	.599	109	.55	.595	108	1	67-136	30

SURROGATE PARAMETER	SPIKE AMT (mg/L)	MS RSLT (mg/L)	MS % REC	SPIKE AMT (mg/L)	MSD RSLT (mg/L)	MSD % REC	QC LIMIT (%)
Bromofluorobenzene	.02	.0214	107	.02	.0213	106	65-135

4011

METHOD 5030A/8260A
VOLATILE ORGANICS BY GC/MS

Client	: IT CORPORATION	Date Collected:	12/01/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	12/01/00
Batch No.	: 00L011	Date Extracted:	12/07/00 06:32
Sample ID:	18609-3703	Date Analyzed:	12/07/00 06:32
Lab Samp ID:	L011-01	Dilution Factor:	1
Lab File ID:	RLQ117	Matrix :	WATER
Ext Btch ID:	VOL1005	% Moisture :	NA
Calib. Ref.:	RLQ112	Instrument ID :	T-005

PARAMETERS	RESULTS (ug/L)	PRL (ug/L)	MDL (ug/L)
1,1,1-TRICHLOROETHANE	ND	5	.91
1,1,2,2-TETRACHLOROETHANE	ND	5	1.1
1,1,2-TRICHLOROETHANE	ND	5	.83
1,1-DICHLOROETHANE	ND	5	.65
1,1-DICHLOROETHENE	ND	5	.86
1,2-DICHLOROETHANE	ND	5	.95
1,2-DICHLOROPROPANE	ND	5	.73
2-BUTANONE	ND	50	6.7
2-CHLOROETHYLVINYLETHER	ND	50	1.3
2-HEXANONE	ND	50	5.6
4-METHYL-2-PENTANONE	ND	50	3.6
ACETONE	ND	50	9.6
BENZENE	ND	5	.77
BROMODICHLOROMETHANE	ND	5	.82
BROMOFORM	ND	5	.74
BROMOMETHANE	ND	5	1.9
CARBON DISULFIDE	ND	5	.61
CARBON TETRACHLORIDE	ND	5	.83
CHLOROBENZENE	ND	5	1.1
CHLOROETHANE	ND	5	1.7
CHLOROFORM	ND	5	.67
CHLOROMETHANE	ND	5	.67
CIS-1,2-DICHLOROETHENE	ND	5	.79
CIS-1,3-DICHLOROPROPENE	ND	5	.79
DIBROMOCHLOROMETHANE	ND	5	.71
ETHYLBENZENE	ND	5	1
MTBE	ND	10	.77
METHYLENE CHLORIDE	2J	5	1.4
STYRENE	ND	5	.87
TETRACHLOROETHENE	ND	5	1.1
TOLUENE	ND	5	.99
TRANS-1,2-DICHLOROETHENE	ND	5	.73
TRANS-1,3-DICHLOROPROPENE	ND	5	.82
TRICHLOROETHENE	ND	5	.89
VINYL ACETATE	ND	50	1.4
VINYL CHLORIDE	ND	5	2.5
XYLENES	ND	5	3.1

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	86	62-139
BROMOFLUOROBENZENE	92	75-125
TOLUENE-D8	98	75-125

PRL: Project Reporting Limit
* : Out side of QC Limit
J : An estimated value between PRL and MDL
E : Value exceed the upper level of the initial calibration
B : Found in the associated blank
D : Value from dilution analysis

METHOD 5030A/8260A
VOLATILE ORGANICS BY GC/MS

Client	: IT CORPORATION	Date Collected:	12/01/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	12/01/00
Batch No.	: 00L011	Date Extracted:	12/07/00 12:09
Sample ID:	18609-3704	Date Analyzed:	12/07/00 12:09
Lab Samp ID:	L011-02	Dilution Factor:	1
Lab File ID:	RLQ126	Matrix :	WATER
Ext Btch ID:	VOL1005	% Moisture :	NA
Calib. Ref.:	RLQ112	Instrument ID :	T-005

PARAMETERS	RESULTS (ug/L)	PRL (ug/L)	MDL (ug/L)
1,1,1-TRICHLOROETHANE	ND	5	.91
1,1,2,2-TETRACHLOROETHANE	ND	5	1.1
1,1,2-TRICHLOROETHANE	ND	5	.83
1,1-DICHLOROETHANE	ND	5	.65
1,1-DICHLOROETHENE	ND	5	.86
1,2-DICHLOROETHANE	ND	5	.95
1,2-DICHLOROPROPANE	ND	5	.73
2-BUTANONE	ND	50	6.7
2-CHLOROETHYLVINYLETHER	ND	50	1.3
2-HEXANONE	ND	50	5.6
4-METHYL-2-PENTANONE	ND	50	3.6
ACETONE	ND	50	9.6
BENZENE	ND	5	.77
BROMODICHLOROMETHANE	ND	5	.82
BROMOFORM	ND	5	.74
BROMOMETHANE	ND	5	1.9
CARBON DISULFIDE	ND	5	.61
CARBON TETRACHLORIDE	ND	5	.83
CHLOROBENZENE	ND	5	1.1
CHLOROETHANE	ND	5	1.7
CHLOROFORM	ND	5	.67
CHLOROMETHANE	ND	5	.67
CIS-1,2-DICHLOROETHENE	ND	5	.79
CIS-1,3-DICHLOROPROPENE	ND	5	.79
DIBROMOCHLOROMETHANE	ND	5	.71
ETHYLBENZENE	ND	5	1
MTBE	ND	10	.77
METHYLENE CHLORIDE	ND	5	1.4
STYRENE	ND	5	.87
TETRACHLOROETHENE	ND	5	1.1
TOLUENE	ND	5	.99
TRANS-1,2-DICHLOROETHENE	ND	5	.73
TRANS-1,3-DICHLOROPROPENE	ND	5	.82
TRICHLOROETHENE	ND	5	.89
VINYL ACETATE	ND	50	1.4
VINYL CHLORIDE	ND	5	2.5
XYLENES	ND	5	3.1

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	84	62-139
BROMOFLUOROBENZENE	110	75-125
TOLUENE-D8	99	75-125

PRL: Project Reporting Limit
* : Out side of QC Limit
J : An estimated value between PRL and MDL
E : Value exceed the upper level of the initial calibration
B : Found in the associated blank
D : Value from dilution analysis

METHOD 5030A/8260A
VOLATILE ORGANICS BY GC/MS

Client	: IT CORPORATION	Date Collected:	12/01/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	12/01/00
Batch No.	: 00L011	Date Extracted:	12/07/00 08:25
Sample ID	: 18609-3705	Date Analyzed:	12/07/00 08:25
Lab Samp ID	: L011-03	Dilution Factor:	1
Lab File ID	: RLQ120	Matrix	: WATER
Ext Btch ID	: VOL1005	% Moisture	: NA
Calib. Ref.	: RLQ112	Instrument ID	: T-005

PARAMETERS	RESULTS (ug/L)	PRL (ug/L)	MDL (ug/L)
1,1,1-TRICHLOROETHANE	ND	5	.91
1,1,2,2-TETRACHLOROETHANE	ND	5	1.1
1,1,2-TRICHLOROETHANE	ND	5	.83
1,1-DICHLOROETHANE	ND	5	.65
1,1-DICHLOROETHENE	ND	5	.86
1,2-DICHLOROETHANE	ND	5	.95
1,2-DICHLOROPROPANE	ND	5	.73
2-BUTANONE	ND	50	6.7
2-CHLOROETHYLVINYLETHER	ND	50	1.3
2-HEXANONE	ND	50	5.6
4-METHYL-2-PENTANONE	ND	50	3.6
ACETONE	ND	50	9.6
BENZENE	ND	5	.77
BROMODICHLOROMETHANE	ND	5	.82
BROMOFORM	ND	5	.74
BROMOMETHANE	ND	5	1.9
CARBON DISULFIDE	ND	5	.61
CARBON TETRACHLORIDE	ND	5	.83
CHLOROBENZENE	ND	5	1.1
CHLOROETHANE	ND	5	1.7
CHLOROFORM	ND	5	.67
CHLOROMETHANE	ND	5	.67
CIS-1,2-DICHLOROETHENE	ND	5	.79
CIS-1,3-DICHLOROPROPENE	ND	5	.79
DIBROMOCHLOROMETHANE	ND	5	.71
ETHYLBENZENE	ND	5	1
MTBE	ND	10	.77
METHYLENE CHLORIDE	ND	5	1.4
STYRENE	ND	5	.87
TETRACHLOROETHENE	ND	5	1.1
TOLUENE	ND	5	.99
TRANS-1,2-DICHLOROETHENE	ND	5	.73
TRANS-1,3-DICHLOROPROPENE	ND	5	.82
TRICHLOROETHENE	ND	5	.89
VINYL ACETATE	ND	50	1.4
VINYL CHLORIDE	ND	5	2.5
XYLENES	ND	5	3.1

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	84	62-139
BROMOFLUOROBENZENE	98	75-125
TOLUENE-D8	100	75-125

PRL: Project Reporting Limit
* : Out side of QC Limit
J : An estimated value between PRL and MDL
E : Value exceed the upper level of the initial calibration
B : Found in the associated blank
D : Value from dilution analysis

METHOD 5030A/8260A
VOLATILE ORGANICS BY GC/MS

Client	: IT CORPORATION	Date Collected:	NA
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	12/07/00
Batch No.	: 00L011	Date Extracted:	12/07/00 05:55
Sample ID:	MBLK1W	Date Analyzed:	12/07/00 05:55
Lab Samp ID:	VOL1005B	Dilution Factor:	1
Lab File ID:	RLQ116	Matrix :	WATER
Ext Btch ID:	VOL1005	% Moisture :	NA
Calib. Ref.:	RLQ112	Instrument ID :	T-005

PARAMETERS	RESULTS (ug/L)	PRL (ug/L)	MDL (ug/L)
1,1,1-TRICHLOROETHANE	ND	5	.91
1,1,2,2-TETRACHLOROETHANE	ND	5	1.1
1,1,2-TRICHLOROETHANE	ND	5	.83
1,1-DICHLOROETHANE	ND	5	.65
1,1-DICHLOROETHENE	ND	5	.86
1,2-DICHLOROETHANE	ND	5	.95
1,2-DICHLOROPROPANE	ND	5	.73
2-BUTANONE	ND	50	6.7
2-CHLOROETHYLVINYLETHER	ND	50	1.3
2-HEXANONE	ND	50	5.6
4-METHYL-2-PENTANONE	ND	50	3.6
ACETONE	ND	50	9.6
BENZENE	ND	5	.77
BROMODICHLOROMETHANE	ND	5	.82
BROMOFORM	ND	5	.74
BROMOMETHANE	ND	5	1.9
CARBON DISULFIDE	ND	5	.61
CARBON TETRACHLORIDE	ND	5	.83
CHLOROBENZENE	ND	5	1.1
CHLOROETHANE	ND	5	1.7
CHLOROFORM	ND	5	.67
CHLOROMETHANE	ND	5	.67
CIS-1,2-DICHLOROETHENE	ND	5	.79
CIS-1,3-DICHLOROPROPENE	ND	5	.79
DIBROMOCHLOROMETHANE	ND	5	.71
ETHYLBENZENE	ND	5	1
MTBE	ND	10	.77
METHYLENE CHLORIDE	ND	5	1.4
STYRENE	ND	5	.87
TETRACHLOROETHENE	ND	5	1.1
TOLUENE	ND	5	.99
TRANS-1,2-DICHLOROETHENE	ND	5	.73
TRANS-1,3-DICHLOROPROPENE	ND	5	.82
TRICHLOROETHENE	ND	5	.89
VINYL ACETATE	ND	50	1.4
VINYL CHLORIDE	ND	5	2.5
XYLENES	ND	5	3.1

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	83	62-139
BROMOFLUOROBENZENE	91	75-125
TOLUENE-D8	100	75-125

PRL: Project Reporting Limit
* : Out side of QC Limit
J : An estimated value between PRL and MDL
E : Value exceed the upper level of the initial calibration
B : Found in the associated blank
D : Value from dilution analysis

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
BATCH NO.: 00L011
METHOD: METHOD 5030A/8260A

MATRIX:	WATER			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK1W				
LAB SAMP ID:	VOL1005B	VOL1005L	VOL1005C		
LAB FILE ID:	RLQ116	RLQ114	RLQ115		
DATE EXTRACTED:	12/07/0005:55	12/07/0004:40	12/07/0005:17	DATE COLLECTED:	NA
DATE ANALYZED:	12/07/0005:55	12/07/0004:40	12/07/0005:17	DATE RECEIVED:	12/07/00
PREP. BATCH:	VOL1005	VOL1005	VOL1005		
CALIB. REF:	RLQ112	RLQ112	RLQ112		

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
1,1-Dichloroethene	ND	20	18.7	93	20	18.6	93	0	75-125	20
Benzene	ND	20	22.3	112	20	23.3	117	4	75-125	20
Chlorobenzene	ND	20	19.5	98	20	19.6	98	0	75-125	20
Toluene	ND	20	20.6	103	20	21.2	106	3	74-125	20
Trichloroethene	ND	20	20.5	102	20	21	105	2	71-125	20

SURROGATE PARAMETER	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	QC LIMIT (%)
1,2-Dichlorethane-d4	50	41	82	50	41.2	82	62-139
Bromofluorobenzene	50	45.3	91	50	45.1	90	75-125
Toluene-d8	50	49.4	99	50	50.6	101	75-125

METHOD 300.0
NITRATE/NITRITE-N

Client : IT CORPORATION
Project : MCAS EL TORO/18609/D.O. 70
Batch No. : 00L011

Matrix : WATER
Instrument ID : TI006

SAMPLE ID	EMAX SAMPLE ID	RESULTS (mg/L)	DLF	MOIST	RL (mg/L)	MDL (mg/L)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1W	ICL019WB	ND	1	NA	.1	.0206	12/09/0018:59	NA	AL09027A	AL09025A	ICL019W	NA	NA
LCS1W	ICL019WL	3.93	1	NA	.1	.0206	12/09/0019:16	NA	AL09028A	AL09025A	ICL019W	NA	NA
18609-3704	L011-02	8.96	10	NA	1	.206	12/09/0021:32	NA	AL09036A	AL09025A	ICL019W	12/01/00	12/01/00
18609-3704DUP	L011-02D	8.66	10	NA	1	.206	12/09/0022:23	NA	AL09039A	AL09037A	ICL019W	12/01/00	12/01/00
18609-3704MS	L011-02M	24.2	10	NA	1	.206	12/09/0022:40	NA	AL09040A	AL09037A	ICL019W	12/01/00	12/01/00
18609-3705	L011-03	7.33	10	NA	1	.206	12/09/0022:57	NA	AL09041A	AL09037A	ICL019W	12/01/00	12/01/00
18609-3706	L011-04	ND	10	NA	1	.206	12/09/0023:14	NA	AL09042A	AL09037A	ICL019W	12/01/00	12/01/00

RL: Reporting Limit

METHOD 300.0
ORTHOPHOSPHATE-P

Client : IT CORPORATION
Project : MCAS EL TORO/18609/D.O. 70
Batch No. : 00L011

Matrix : WATER
Instrument ID : TI006

SAMPLE ID	EMAX SAMPLE ID	RESULTS (mg/L)	DLF	MOIST	RL (mg/L)	MDL (mg/L)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1W	ICL018WB	ND	1	NA	.5	.0322	12/09/0012:10	NA	AL09003A	AL09001A	ICL018W	NA	NA
LCS1W	ICL018WL	2.05	1	NA	.5	.0322	12/09/0012:27	NA	AL09004A	AL09001A	ICL018W	NA	NA
LCD1W	ICL018WC	2.05	1	NA	.5	.0322	12/09/0012:44	NA	AL09005A	AL09001A	ICL018W	NA	NA
18609-3704	L011-02	ND	1	NA	.5	.0322	12/09/0013:01	NA	AL09006A	AL09001A	ICL018W	12/01/00	12/01/00
18609-3704DUP	L011-02D	ND	1	NA	.5	.0322	12/09/0013:18	NA	AL09007A	AL09001A	ICL018W	12/01/00	12/01/00
18609-3704MS	L011-02M	1.69	1	NA	.5	.0322	12/09/0013:35	NA	AL09008A	AL09001A	ICL018W	12/01/00	12/01/00
18609-3705	L011-03	ND	1	NA	.5	.0322	12/09/0013:52	NA	AL09009A	AL09001A	ICL018W	12/01/00	12/01/00
18609-3706	L011-04	ND	1	NA	.5	.0322	12/09/0014:09	NA	AL09010A	AL09001A	ICL018W	12/01/00	12/01/00

RL : Reporting Limit

METHOD 300.0
SULFATE

Client : IT CORPORATION
Project : MCAS EL TORO/18609/D.O. 70
Batch No. : OOL011

Matrix : WATER
Instrument ID : TI006

SAMPLE ID	EMAX SAMPLE ID	RESULTS (mg/L)	DLF	MOIST	RL (mg/L)	MDL (mg/L)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1W	ICL018WB	ND	1	NA	.5	.101	12/09/0012:10	NA	AL09003A	AL09001A	ICL018W	NA	NA
LCS1W	ICL018WL	20.4	1	NA	.5	.101	12/09/0012:27	NA	AL09004A	AL09001A	ICL018W	NA	NA
LCD1W	ICL018WC	20.4	1	NA	.5	.101	12/09/0012:44	NA	AL09005A	AL09001A	ICL018W	NA	NA
18609-3706	L011-04	5.89	1	NA	.5	.101	12/09/0014:09	NA	AL09010A	AL09001A	ICL018W	12/01/00	12/01/00
18609-3704	L011-02	160	25	NA	12.5	2.53	12/09/0017:34	NA	AL09022A	AL09013A	ICL018W	12/01/00	12/01/00
18609-3704DUP	L011-02D	157	25	NA	12.5	2.53	12/09/0017:51	NA	AL09023A	AL09013A	ICL018W	12/01/00	12/01/00
18609-3704MS	L011-02M	266	25	NA	12.5	2.53	12/09/0018:08	NA	AL09024A	AL09013A	ICL018W	12/01/00	12/01/00
MBLK2W	ICL019WB	ND	1	NA	.5	.101	12/09/0018:59	NA	AL09027A	AL09025A	ICL019W	NA	NA
LCS2W	ICL019WL	20.5	1	NA	.5	.101	12/09/0019:16	NA	AL09028A	AL09025A	ICL019W	NA	NA
18609-3705	L011-03	153	25	NA	12.5	2.53	12/09/0019:33	NA	AL09029A	AL09025A	ICL019W	12/01/00	12/01/00

RL : Reporting Limit

EMAX QUALITY CONTROL DATA
LCS ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
BATCH NO.: 00L011
METHOD: METHOD 300.0

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MATRIX:	WATER		% MOISTURE:	NA
DILUTION FACTOR:	1	1		
SAMPLE ID:	MBLK1W			
LAB SAMP ID:	ICL019WB	ICL019WL		
LAB FILE ID:	AL09027A	AL09028A		
DATE EXTRACTED:	NA	NA	DATE COLLECTED:	NA
DATE ANALYZED:	12/09/0018:59	12/09/0019:16	DATE RECEIVED:	NA
PREP. BATCH:	ICL019W	ICL019W		
CALIB. REF:	AL09025A	AL09025A		

ACCESSION:

PARAMETER	BLNK RSLT (mg/L)	SPIKE AMT (mg/L)	BS RSLT (mg/L)	BS % REC	QC LIMIT (%)
Nitrate/Nitrite-N	ND	4	3.93	98	80-120

8007

EMAX QUALITY CONTROL DATA
MS ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
BATCH NO.: 00L011
METHOD: METHOD 300.0

==========

MATRIX:	WATER		% MOISTURE:	NA
DILUTION FACTOR:	10	10		
SAMPLE ID:	18609-3704			
LAB SAMP ID:	L011-02	L011-02M		
LAB FILE ID:	AL09036A	AL09040A		
DATE EXTRACTED:	NA	NA	DATE COLLECTED:	12/01/00
DATE ANALYZED:	12/09/0021:32	12/09/0022:40	DATE RECEIVED:	12/01/00
PREP. BATCH:	ICL019W	ICL019W		
CALIB. REF:	AL09025A	AL09037A		

ACCESSION:

PARAMETER	SMPL RSLT (mg/L)	SPIKE AMT (mg/L)	MS RSLT (mg/L)	MS % REC	QC LIMIT (%)
Nitrate/Nitrite-N	8.96	20	24.2	76*	80-120

8008

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
BATCH NO.: 00L011
METHOD: METHOD 300.0

MATRIX:	WATER			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK1W				
LAB SAMP ID:	ICL018WB	ICL018WL	ICL018WC		
LAB FILE ID:	AL09003A	AL09004A	AL09005A		
DATE EXTRACTED:	NA	NA	NA	DATE COLLECTED:	NA
DATE ANALYZED:	12/09/0012:10	12/09/0012:27	12/09/0012:44	DATE RECEIVED:	NA
PREP. BATCH:	ICL018W	ICL018W	ICL018W		
CALIB. REF:	AL09001A	AL09001A	AL09001A		

ACCESSION:

PARAMETER	BLNK RSLT (mg/L)	SPIKE AMT (mg/L)	BS RSLT (mg/L)	BS % REC	SPIKE AMT (mg/L)	BSD RSLT (mg/L)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
Orthophosphate-P	ND	2	2.05	103	2	2.05	103	0	80-120	20

EMAX QUALITY CONTROL DATA
MS ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
BATCH NO.: 00L011
METHOD: METHOD 300.0

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MATRIX:	WATER		% MOISTURE:	NA
DILUTION FACTOR:	1	1		
SAMPLE ID:	18609-3704			
LAB SAMP ID:	L011-02	L011-02M		
LAB FILE ID:	AL09006A	AL09008A		
DATE EXTRACTED:	NA	NA	DATE COLLECTED:	12/01/00
DATE ANALYZED:	12/09/0013:01	12/09/0013:35	DATE RECEIVED:	12/01/00
PREP. BATCH:	ICL018W	ICL018W		
CALIB. REF:	AL09001A	AL09001A		

ACCESSION:

PARAMETER	SMPL RSLT (mg/L)	SPIKE AMT (mg/L)	MS RSLT (mg/L)	MS % REC	QC LIMIT (%)
Orthophosphate-P	ND	2	1.69	84	80-120

80011

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
BATCH NO.: 00L011
METHOD: METHOD 300.0

MATRIX:	WATER			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK1W				
LAB SAMP ID:	ICL018WB	ICL018WL	ICL018WC		
LAB FILE ID:	AL09003A	AL09004A	AL09005A		
DATE EXTRACTED:	NA	NA	NA	DATE COLLECTED:	NA
DATE ANALYZED:	12/09/0012:10	12/09/0012:27	12/09/0012:44	DATE RECEIVED:	NA
PREP. BATCH:	ICL018W	ICL018W	ICL018W		
CALIB. REF:	AL09001A	AL09001A	AL09001A		

ACCESSION:

PARAMETER	BLNK RSLT (mg/L)	SPIKE AMT (mg/L)	BS RSLT (mg/L)	BS % REC	SPIKE AMT (mg/L)	BSD RSLT (mg/L)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
Sulfate	ND	20	20.4	102	20	20.4	102	0	80-120	20

8013

EMAX QUALITY CONTROL DATA
LCS ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
BATCH NO.: 00L011
METHOD: METHOD 300.0

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MATRIX: WATER % MOISTURE: NA
DILUTION FACTOR: 1 1
SAMPLE ID: MBLK2W
LAB SAMP ID: ICL019WB ICL019WL
LAB FILE ID: AL09027A AL09028A
DATE EXTRACTED: NA NA DATE COLLECTED: NA
DATE ANALYZED: 12/09/0018:59 12/09/0019:16 DATE RECEIVED: NA
PREP. BATCH: ICL019W ICL019W
CALIB. REF: AL09025A AL09025A

ACCESSION:

PARAMETER	BLNK RSLT (mg/L)	SPIKE AMT (mg/L)	BS RSLT (mg/L)	BS % REC	QC LIMIT (%)
Sulfate	ND	20	20.5	103	80-120

8014

EMAX QUALITY CONTROL DATA
MS ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
BATCH NO.: 00L011
METHOD: METHOD 300.0

==========

MATRIX:	WATER		% MOISTURE:	NA
DILUTION FACTOR:	25	25		
SAMPLE ID:	18609-3704			
LAB SAMP ID:	L011-02	L011-02M		
LAB FILE ID:	AL09022A	AL09024A		
DATE EXTRACTED:	NA	NA	DATE COLLECTED:	12/01/00
DATE ANALYZED:	12/09/0017:34	12/09/0018:08	DATE RECEIVED:	12/01/00
PREP. BATCH:	ICL018W	ICL018W		
CALIB. REF:	AL09013A	AL09013A		

ACCESSION:

PARAMETER	SMPL RSLT (mg/L)	SPIKE AMT (mg/L)	MS RSLT (mg/L)	MS % REC	QC LIMIT (%)
Sulfate	160	125	266	85	80-120

METHOD 310.1
TOTAL ALKALINITY

Client : IT CORPORATION
Project : MCAS EL TORO/18609/D.O. 70
Batch No. : OOL011

Matrix : WATER
Instrument ID :

SAMPLE ID	EMAX SAMPLE ID	RESULTS (mg/L)	DLF	MOIST	RL (mg/L)	MDL (mg/L)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
18609-3704	L011-02	311	1	NA	5	.469	12/08/0009:15	NA	ALL002W-4	NA	ALL002W	12/01/00	12/01/00
18609-3704DUP	L011-02D	311	1	NA	5	.469	12/08/0009:30	NA	ALL002W-5	NA	ALL002W	12/01/00	12/01/00
18609-3704MS	L011-02M	374	1	NA	5	.469	12/08/0009:45	NA	ALL002W-6	NA	ALL002W	12/01/00	12/01/00
18609-3705	L011-03	316	1	NA	5	.469	12/08/0010:00	NA	ALL002W-7	NA	ALL002W	12/01/00	12/01/00
18609-3706	L011-04	4.79	1	NA	5	.469	12/08/0010:15	NA	ALL002W-8	NA	ALL002W	12/01/00	12/01/00
MBLK1W	ALL002WB	ND	1	NA	5	.469	12/08/0008:30	NA	ALL002W-1	NA	ALL002W	NA	NA
LCS1W	ALL002WL	98.1	1	NA	5	.469	12/08/0008:45	NA	ALL002W-2	NA	ALL002W	NA	NA
LCD1W	ALL002WC	98.1	1	NA	5	.469	12/08/0009:00	NA	ALL002W-3	NA	ALL002W	NA	NA

RL: Reporting Limit

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
METHOD: METHOD 310.1
MATRIX: WATER
% MOISTURE: NA

BATCH NO.: 00L011
SAMPLE ID: LCS1W/LCD1W
CONTROL NO.: ALL002WL/C

DATE RECEIVED: NA
DATE EXTRACTED: NA
DATE ANALYZED: 12/08/00 08:45/09:00

ACCESSION:

PARAMETER	BLNK RSLT (mg/L)	SPIKE AMT (mg/L)	BS RSLT (mg/L)	BS % REC	SPIKE AMT (mg/L)	BSD RSLT (mg/L)	BSD % REC	RPD %	QC LIMIT %	RPD LIMIT %
Alkalinity	ND	101	98.1	97	101	98.1	97	0	80-120	20

EMAX QUALITY CONTROL DATA
MS ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
METHOD: METHOD 310.1
MATRIX: WATER
% MOISTURE: NA

BATCH NO.: 00L011
SAMPLE ID: 18609-3704MS
CONTROL NO.: L011-02M

DATE RECEIVED: 12/01/00
DATE EXTRACTED: NA
DATE ANALYZED: 12/08/00 09:45

ACCESSION:

PARAMETER	SMPL RSLT (mg/L)	SPIKE AMT (mg/L)	MS RSLT (mg/L)	MS % REC	QC LIMIT (%)
Alkalinity	311	58.8	374	108	80-120

8039

METHOD 160.1
TOTAL DISSOLVED SOLIDS

Client : IT CORPORATION
Project : MCAS EL TORO/18609/D.O. 70
Batch No. : 00L011

Matrix : WATER
Instrument ID :

SAMPLE ID	EMAX SAMPLE ID	RESULTS (mg/L)	DLF	MOIST	RL (mg/L)	MDL (mg/L)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1W	DSL005WB	ND	1	NA	10	4.33	12/06/0018:30	NA	DSL005W-1	NA	DSL005W	NA	NA
LCS1W	DSL005WL	460	1	NA	10	4.33	12/06/0018:31	NA	DSL005W-2	NA	DSL005W	NA	NA
LCD1W	DSL005WC	435	1	NA	10	4.33	12/06/0018:32	NA	DSL005W-3	NA	DSL005W	NA	NA
18609-3704	L011-02	845	1	NA	10	4.33	12/06/0018:43	NA	DSL005W-14	NA	DSL005W	12/01/00	12/04/00
18609-3705	L011-03	795	1	NA	10	4.33	12/06/0018:44	NA	DSL005W-15	NA	DSL005W	12/01/00	12/04/00
18609-3706	L011-04	30	1	NA	10	4.33	12/06/0018:45	NA	DSL005W-16	NA	DSL005W	12/01/00	12/04/00

RL : Reporting Limit

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
METHOD: METHOD 160.1
MATRIX: WATER
% MOISTURE: NA

BATCH NO.: 00L011
SAMPLE ID: LCS1W/LCD1W
CONTROL NO.: DSL005WL/C

DATE RECEIVED: NA
DATE EXTRACTED: NA
DATE ANALYZED: 12/06/00 18:31/18:32

ACCESSION:

PARAMETER	BLNK RSLT (mg/L)	SPIKE AMT (mg/L)	BS RSLT (mg/L)	BS % REC	SPIKE AMT (mg/L)	BSD RSLT (mg/L)	BSD % REC	RPD %	QC LIMIT %	RPD LIMIT %
TDS	ND	442	460	104	442	435	98	6	80-120	20

8043

METHOD 351.3
TKN

Client : IT CORPORATION
Project : MCAS EL TORO/18609/D.O. 70
Batch No. : OOL011

Matrix : WATER
Instrument ID : I21

SAMPLE ID	EMAX SAMPLE ID	RESULTS (mg/L)	DLF	MOIST	RL (mg/L)	MDL (mg/L)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1W	KNL001WB	ND	1	NA	1	.0255	12/06/0015:07	12/04/0019:45	KNL001W-08	KNL001W-06	KNL001W	NA	12/04/00
LCS1W	KNL001WL	1.68	1	NA	1	.0255	12/06/0015:08	12/04/0019:45	KNL001W-09	KNL001W-06	KNL001W	NA	12/04/00
LCD1W	KNL001WC	1.66	1	NA	1	.0255	12/06/0015:09	12/04/0019:45	KNL001W-10	KNL001W-06	KNL001W	NA	12/04/00
18609-3704	L011-02	ND	1	NA	1	.0255	12/06/0015:10	12/04/0019:45	KNL001W-11	KNL001W-06	KNL001W	12/01/00	12/01/00
18609-3704MS	L011-02M	.654J	1	NA	1	.0255	12/06/0015:11	12/04/0019:45	KNL001W-12	KNL001W-06	KNL001W	12/01/00	12/01/00
18609-3704MSD	L011-02S	.620J	1	NA	1	.0255	12/06/0015:12	12/04/0019:45	KNL001W-13	KNL001W-06	KNL001W	12/01/00	12/01/00
18609-3705	L011-03	ND	1	NA	1	.0255	12/06/0015:13	12/04/0019:45	KNL001W-14	KNL001W-06	KNL001W	12/01/00	12/04/00
18609-3706	L011-04	ND	1	NA	1	.0255	12/06/0015:14	12/04/0019:45	KNL001W-15	KNL001W-06	KNL001W	12/01/00	12/04/00

RL : Reporting Limit

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
METHOD: METHOD 351.3
MATRIX: WATER
% MOISTURE: NA

BATCH NO.: 00L011
SAMPLE ID: 18609-3704MS/MSD
CONTROL NO.: L011-02M/S

DATE RECEIVED: 12/01/00
DATE EXTRACTED: 12/04/00 19:45
DATE ANALYZED: 12/06/00 15:11/15:12

ACCESSION:

PARAMETER	SMPL RSLT (mg/L)	SPIKE AMT (mg/L)	MS RSLT (mg/L)	MS % REC	SPIKE AMT (mg/L)	MSD RSLT (mg/L)	MSD % REC	RPD %	QC LIMIT %	RPD LIMIT %
TKN	ND	.6	.654J	109	.6	.620J	103	5	80-120	20

80048

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
METHOD: METHOD 351.3
MATRIX: WATER
% MOISTURE: NA

BATCH NO.: 00L011
SAMPLE ID: LCS1W/LCD1W
CONTROL NO.: KNL001WL/C

DATE RECEIVED: 12/04/00
DATE EXTRACTED: 12/04/00 19:45
DATE ANALYZED: 12/06/00 15:08/15:09

ACCESSION:

PARAMETER	BLNK RSLT (mg/L)	SPIKE AMT (mg/L)	BS RSLT (mg/L)	BS % REC	SPIKE AMT (mg/L)	BSD RSLT (mg/L)	BSD % REC	RPD %	QC LIMIT %	RPD LIMIT %
TKN	ND	1.6	1.68	105	1.6	1.66	104	1	80-120	20

8049

METHOD 120.1
SPECIFIC CONDUCTIVITY

Client : IT CORPORATION
Project : MCAS EL TORO/18609/D.O. 70
Batch No. : OOL011

Matrix : WATER
Instrument ID : I34

SAMPLE ID	EMAX SAMPLE ID	RESULTS (umhos/cm)	DLF	MOIST	RL (umhos/cm)	MDL (umhos/cm)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
18609-3704	L011-02	1340	1	NA	1	.197	12/05/0019:14	NA	ECL001W-03	NA	ECL001W	12/01/00	12/04/00
18609-3705	L011-03	1290	1	NA	1	.197	12/05/0019:16	NA	ECL001W-04	NA	ECL001W	12/01/00	12/04/00
18609-3706	L011-04	38.3	1	NA	1	.197	12/05/0019:18	NA	ECL001W-05	NA	ECL001W	12/01/00	12/04/00
18609-3706DUP	L011-04D	37.6	1	NA	1	.197	12/05/0019:20	NA	ECL001W-06	NA	ECL001W	12/01/00	12/04/00
LCS1W	ECL001WL	412	1	NA	1	.197	12/05/0019:10	NA	ECL001W-01	NA	ECL001W	NA	NA
LCD1W	ECL001WC	412	1	NA	1	.197	12/05/0019:12	NA	ECL001W-02	NA	ECL001W	NA	NA

RL: Reporting Limit

8054

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
METHOD: METHOD 120.1
MATRIX: WATER
% MOISTURE: NA

BATCH NO.: 00L011
SAMPLE ID: LCS1W/LCD1W
CONTROL NO.: ECL001WL/C

DATE RECEIVED: NA
DATE EXTRACTED: NA
DATE ANALYZED: 12/05/00 19:10/19:12

ACCESSION:

PARAMETER	BLNK RSLT (umhos/cm)	SPIKE AMT (umhos/cm)	BS RSLT (umhos/cm)	BS % REC	SPIKE AMT (umhos/cm)	BSD RSLT (umhos/cm)	BSD % REC	RPD %	QC LIMIT %	RPD LIMIT %
Specific Conductivity	ND	409	412	101	409	412	101	0	80-120	20

8055

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: MCAS El Toro

Collection Date: December 1, 2000

LDC Report Date: January 4, 2001

Matrix: Water

Parameters: Total Petroleum Hydrocarbons as Extractables

Validation Level: NFESC Level C

Laboratory: EMAX Laboratories, Inc.

Sample Delivery Group (SDG): 00L011

Sample Identification

18609-3704
18609-3705
18609-3706

Introduction

This data review covers 3 water samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8015 modified for Total Petroleum Hydrocarbons (TPH) as Extractables.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (October 1999) as there are no current guidelines for the method stated above.

A table summarizing all data qualification is provided at the end of this report. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Blank results are summarized in Section III.

Field duplicates are summarized in Section IX.

Paw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Calibration

a. Initial Calibration

Initial calibration of compounds was performed as required by the method.

The percent relative standard deviations (%RSD) of calibration factors for compounds were less than or equal to 20.0% .

b. Calibration Verification

Calibration verification was performed at required frequencies. The percent differences (%D) of amounts in continuing standard mixtures were within the 15.0% QC limits.

III. Blanks

Method blanks were reviewed for each matrix as applicable. No total petroleum hydrocarbons as extractable contaminants were found in the method blanks.

IV. Accuracy and Precision Data

a. Surrogate Recovery

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

b. Matrix Spike/Matrix Spike Duplicates

The laboratory has indicated that there were no matrix spike (MS) and matrix spike duplicate (MSD) analyses specified for the samples in this SDG, and therefore matrix spike and matrix spike duplicate analyses were not performed for this SDG.

c. Laboratory Control Samples

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

V. Target Compound Identification

Raw data were not reviewed for this SDG.

VI. Compound Quantitation and CRQLs

Raw data were not reviewed for this SDG.

VII. System Performance

Raw data were not reviewed for this SDG.

VIII. Overall Assessment of Data

Data flags have been summarized at the end of this report.

IX. Field Duplicates

No field duplicates were identified in this SDG.

X. Field Blanks

No field blanks were identified in this SDG.

MCAS El Toro
Total Petroleum Hydrocarbons as Extractables - Data Qualification Summary - SDG 00L011

No Sample Data Qualified in this SDG

MCAS El Toro
Total Petroleum Hydrocarbons as Extractables - Laboratory Blank Data Qualification Summary - SDG 00L011

No Sample Data Qualified in this SDG

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: MCAS El Toro

Collection Date: December 1, 2000

LDC Report Date: January 4, 2001

Matrix: Water

Parameters: Total Petroleum Hydrocarbons as Gasoline

Validation Level: NFESC Level C

Laboratory: EMAX Laboratories, Inc.

Sample Delivery Group (SDG): 00L011

Sample Identification

18609-3703
18609-3704
18609-3705
18609-3706
18609-3706MS
18609-3706MSD

Introduction

This data review covers 6 water samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8015 modified for Total Petroleum Hydrocarbons (TPH) as Gasoline.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (October 1999) as there are no current guidelines for the method stated above.

A table summarizing all data qualification is provided at the end of this report. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Blank results are summarized in Section III.

Field duplicates are summarized in Section IX.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Calibration

a. Initial Calibration

Initial calibration of compounds was performed as required by the method.

The percent relative standard deviations (%RSD) of calibration factors for compounds were less than or equal to 20.0% .

b. Calibration Verification

Calibration verification was performed at required frequencies. The percent differences (%D) of amounts in continuing standard mixtures were within the 15.0% QC limits.

III. Blanks

Method blanks were reviewed for each matrix as applicable. No total petroleum hydrocarbons as gasoline contaminants were found in the method blanks.

IV. Accuracy and Precision Data

a. Surrogate Recovery

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

b. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

c. Laboratory Control Samples

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

V. Target Compound Identification

Raw data were not reviewed for this SDG.

VI. Compound Quantitation and CRQLs

Raw data were not reviewed for this SDG.

VII. System Performance

Raw data were not reviewed for this SDG.

VIII. Overall Assessment of Data

Data flags have been summarized at the end of this report.

IX. Field Duplicates

No field duplicates were identified in this SDG.

X. Field Blanks

Sample 18609-3703 was identified as a trip blank. No total petroleum hydrocarbons as gasoline contaminants were found in this blank.

MCAS El Toro
Total Petroleum Hydrocarbons as Gasoline - Data Qualification Summary - SDG 00L011

No Sample Data Qualified in this SDG

MCAS El Toro
Total Petroleum Hydrocarbons as Gasoline - Laboratory Blank Data Qualification Summary - SDG 00L011

No Sample Data Qualified in this SDG

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: MCAS El Toro

Collection Date: December 1, 2000

LDC Report Date: December 29, 2000

Matrix: Water

Parameters: Volatiles

Validation Level: NFESC Level C

Laboratory: EMAX Laboratories, Inc.

Sample Delivery Group (SDG): 00L011

Sample Identification

18609-3703
18609-3704
18609-3705
18609-3706

Introduction

This data review covers 4 water samples listed or the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8260A for Volatiles.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (October 1999) as there are no current guidelines for the method stated above.

A table summarizing all data qualification is provided at the end of this report. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Blank results are summarized in Section V.

Field duplicates are summarized in Section XVI.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. GC/MS Instrument Performance Check

Instrument performance was checked at 12 hour intervals.

All ion abundance requirements were met.

III. Initial Calibration

Initial calibration was performed using required standard concentrations.

Percent relative standard deviations (%RSD) were less than or equal to 30.0% for all calibration check compounds and less than or equal to 50.0% for all other compounds.

Average relative response factors (RRF) for all volatile target compounds and system performance check compounds (SPCCs) were within method and validation criteria.

IV. Continuing Calibration

Continuing calibration was performed at the required frequencies.

All of the continuing calibration percent differences (%D) between the initial calibration RRF and the continuing calibration RRF were less than or equal to 25.0% for all calibration check compounds and less than or equal to 50.0% for all other compounds.

All of the continuing calibration RRF values were within method and validation criteria.

V. Blanks

Method blanks were reviewed for each matrix as applicable. No volatile contaminants were found in the method blanks.

VI. Surrogate Spikes

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

VII. Matrix Spike/Matrix Spike Duplicates

The laboratory has indicated that there were no matrix spike (MS) and matrix spike duplicate (MSD) analyses specified for the samples in this SDG, and therefore matrix spike and matrix spike duplicate analyses were not performed for this SDG.

VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

IX. Regional Quality Assurance and Quality Control

Not applicable.

X. Internal Standards

All internal standard areas and retention times were within QC limits.

XI. Target Compound Identifications

Raw data were not reviewed for this SDG.

XII. Compound Quantitation and CRQLs

Raw data were not reviewed for this SDG.

XIII. Tentatively Identified Compounds (TICs)

Raw data were not reviewed for this SDG.

XIV. System Performance

Raw data were not reviewed for this SDG.

XV. Overall Assessment of Data

Data flags have been summarized at the end of the report.

XVI. Field Duplicates

No field duplicates were identified in this SDG.

XVII. Field Blanks

Sample 18609-3703 was identified as a trip blank. No volatile contaminants were found in this blank with the following exceptions:

Trip Blank ID	Compound	Concentration (ug/L)
18609-3703	Methylene chloride	2

MCAS El Toro
Volatiles - Data Qualification Summary - SDG 00L011

No Sample Data Qualified in this SDG

MCAS El Toro
Volatiles - Laboratory Blank Data Qualification Summary - SDG 00L011

No Sample Data Qualified in this SDG

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: MCAS El Toro

Collection Date: December 1, 2000

LDC Report Date: January 2, 2001

Matrix: Water

Parameters: Wet Chemistry

Validation Level: NFESC Level C

Laboratory: EMAX Laboratories, Inc.

Sample Delivery Group (SDG): 00L011

Sample Identification

18609-3704
18609-3705
18609-3706
18609-3704MS
18609-3704MSD
18609-3704DUP
18609-3706DUP

Introduction

This data review covers 7 water samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA Method 120.1 for Conductivity, EPA Method 160.1 for Total Dissolved Solids, EPA Method 300.0 for Nitrate/Nitrite as Nitrogen, Sulfate, and Orthophosphate, EPA Method 310.1 for Alkalinity, and EPA Method 351.3 for Total Kjeldahl Nitrogen.

The review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review (February 1994) as there are no current guidelines for the methods stated above.

A table summarizing all data qualification is provided at the end of this report. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Blank results are summarized in Section III.

Field duplicates are summarized in Section VII.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met with the following exceptions:

Sample	Analyte	Total Time From Sample Collection Until Analysis	Required Holding Time From Sample Collection Until Analysis	Flag	A or P
18609-3704 18609-3705 18609-3706 18609-3704MS 18609-3704DUP	Orthophosphate	8 days	48 hours	J (all detects) R (all non-detects)	P

Non-detected sample concentrations were qualified as unusable (R) due to a gross exceedance (>2X) of holding time.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Calibration

a. Initial Calibration

All criteria for the initial calibration of each method were met with the following exceptions:

Sample	Analyte	Finding	Criteria	Flag	A or P
All samples in SDG 00L011	Sulfate Nitrate/Nitrite as N Orthophosphate Total kjeldahl nitrogen	A blank was not used to establish the calibration curve.	A blank must be used to establish the calibration curve.	None None None None	P

b. Calibration Verification

Calibration verification frequency and analysis criteria were met for each method when applicable.

III. Blanks

Method blanks were reviewed for each matrix as applicable. No contaminant concentrations were found in the method blanks.

IV. Accuracy and Precision Data

a. Matrix Spike/(Matrix Spike) Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

Duplicate (DUP) sample analyses were reviewed for each matrix as applicable. Relative percent differences (RPD) were within QC limits.

b. Laboratory Control Samples

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

V. Sample Result Verification

Raw data were not reviewed for this SDG.

VI. Overall Assessment of Data

Data flags are summarized at the end of this report.

VII. Field Duplicates

No field duplicates were identified in this SDG.

VIII. Field Blanks

No field blanks were identified in this SDG.

MCAS El Toro
Wet Chemistry - Data Qualification Summary - SDG 00L011

SDG	Sample	Analyte	Flag	A or P	Reason
00L011	18609-3704 18609-3705 18609-3706	Orthophosphate	J (all detects) R (all non-detects)	P	Technical holding times
00L011	18609-3704 18609-3705 18609-3706	Nitrate/Nitrite as N Sulfate Orthophosphate Total kjeldahl nitrogen	None None None None	P	Initial calibration

MCAS El Toro
Wet Chemistry - Laboratory Blank Data Qualification Summary - SDG 00L011

No Sample Data Qualified in this SDG

the IT group

IT Corporation
2790 Mosside Blvd.
Monroeville, PA 15146-2792
(412)372-7701

CHAIN-OF-CUSTODY RECORD

PROJECT DATA MANAGER'S COPY

A 12390

FORM 0019 REV. 9-99

TF6- GW (Semi-Annual)

IT'S LAB COORDINATOR: M. Gonzalez	LAB COORDINATOR'S PHONE: 949-660-7550	LAB COORDINATOR'S FAX: 949-475-5433	LABORATORY SERVICE ID: 00L025	LABORATORY CONTACT: EMAX	MAIL REPORT (COMPANY NAME): IT Group
PROJECT NAME: GW- TF6	PROJECT LOCATION: MCAS El Toro, CA	PROJECT NUMBER: 18609	LABORATORY PHONE: 310-618-8889	LABORATORY FAX: 310-618-0818	RECIPIENT NAME: Dwayne Ishida
PROJECT CONTACT: M. Gonzalez	PROJECT PHONE NUMBER: 949-451-1666	PROJECT FAX: 949-451-1672	LABORATORY ADDRESS: 630 Maple Ave		ADDRESS: 3347 Michelson #200
PROJECT ADDRESS: Bldg. 311, MCAS El Toro	CITY, STATE AND ZIP CODE: Santa Ana, CA 92708	CLIENT: SWDIV	CITY, STATE AND ZIP CODE: Torrance, CA 90503		CITY, STATE AND ZIP CODE: Irvine, CA 92612
PROJECT MANAGER: D. Rawal	PROJECT MANAGER'S PHONE: 949-660-7576	PROJECT MANAGER'S FAX: 949-474-8309			

Item	Sample Identifier	Matrix	Date (2000)	Time	Preserved	# of Cont.	QC Level	T.A.T.	Analyses: 8015-gw	8015-Diesel	8015-IP5	8260	Spec. Cond. TDS	SO4, NO3, Alk, TKN, PO4		Comments
1	18609-3708	W	12/4	0950	4°C	11	3	5 day	X	X	X	X	X	X	X	
2	18609-3707	W	12/4	0800	4°C	4	3	5 day	X			X				
3	~~18609-3709~~	~~W~~	~~12/4~~	~~0800~~	~~4°C~~	~~11~~	~~3~~	~~5 day~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~1.g.~~
4	18609-3710	W	12/4	1310	4°C	11	3	5 day	X	X	X	X	X	X	X	
5																
6																
7																
8																
9																
10																

W.J. 12-4-00

SAMPLES COLLECTED BY: W. Jefferson

COURIER AND AIR BILL NUMBER: Courier

COOLER TEMPERATURE UPON RECEIPT:

RELINQUISHED BY	RECEIVED BY	DATE	TIME	SAMPLE'S CONDITION UPON RECEIPT
Way - Lynn Jefferson	[signature]	12-4-00	3:30	

Distribution: White - Laboratory (To be returned with Analytical Report); Goldenrod - Project File; Manilla - Project Data Manager

Project Information Section For Project Personnel Only Do Not Submit to Laboratory

TF6-GW (Semi-Annual)

Sample Point Location	Sample Type: G	C	F	QC
① Trip Blank	X			X
② TF6-MW-01 Pump #1	X			
③ TF6-~~MW-02~~ Pump #2 1.g.	X			
④ Equipment Rinsate Pump #1	X			X

Comments: due 12/12/00 rec'd 12/12/00

Sample Type: G - Grab, C - Composite, F - Field Sample, QC - Quality Control Sample

6251

5785 E

EMAX
LABORATORIES, INC.
630 Maple Ave.
Torrance, CA 90503
Telephone: (310) 618-8889
Fax: (310) 618-0818

Date: 12-14-2000
EMAX Batch No.: 00L025

Attn: Dwayne Ishida

IT Corporation
3347 Michelson Dr. # 200
Irvine CA 92612

Subject: Laboratory Report
Project: MCAS El Toro/18609/D.O. 70

Enclosed is the Laboratory report for samples received on 12/04/00. The data reported include :

Sample ID	Control #	Col Date	Matrix	Analysis
18609-3708	L025-01	12/04/00	WATER	TPH GASOLINE
				TPH DIESEL
				VOLATILE ORGANICS BY GC/MS
				SPECIFIC CONDUCTANCE
				SOLIDS TOTAL DISSOLVED
				SULFATE BY IC
				NITRATE-N BY IC
				ALKALINITY
				TKN
				PHOSPHATE-P
18609-3707	L025-02	12/04/00	WATER	TPH GASOLINE
				VOLATILE ORGANICS BY GC/MS
18609-3710	L025-03	12/04/00	WATER	TPH GASOLINE
				TPH DIESEL
				VOLATILE ORGANICS BY GC/MS
				SPECIFIC CONDUCTANCE
				SOLIDS TOTAL DISSOLVED
				SULFATE BY IC
				NITRATE-N BY IC

1000

Sample ID	Control #	Col Date	Matrix	Analysis
				ALKALINITY
				TKN
				PHOSPHATE-P

The results are summarized on the following pages.

Please feel free to call if you have any questions concerning these results.

Sincerely yours,

Kam Y. Pang, Ph.D.
Laboratory Director

EMAX LABORATORIES, INC., 630 Maple Ave., Torrance, CA 90503 TEL: (310) 618-8889 FAX: (310) 618-0818

METHOD M8015
TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

Client	: IT CORPORATION	Date Collected:	12/04/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	12/04/00
Batch No.	: 00L025	Date Extracted:	12/07/00 18:00
Sample ID:	18609-3708	Date Analyzed:	12/08/00 17:15
Lab Samp ID:	L025-01	Dilution Factor:	.94
Lab File ID:	TL02059A	Matrix :	WATER
Ext Btch ID:	DSL009W	% Moisture :	NA
Calib. Ref.:	TL02053A	Instrument ID :	GCT050

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
DIESEL	ND	.094	.063
JP5	.12**	.47	.12

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
BROMOBENZENE	114	65-135
HEXACOSANE	100	60-145

QC LIMIT : (SOIL) 60-140 55-150
QC LIMIT : (WATER) 65-135 60-145
SURR1 : Bromobenzene
SURR2 : Hexacosane
RL : Reporting Limit
** : Presence of lighter HC pattern, quantitated as JP5

METHOD M8015
TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

ent	: IT CORPORATION	Date Collected:	12/04/00
ject	: MCAS EL TORO/18609/D.O. 70	Date Received:	12/04/00
atch No.	: 00L025	Date Extracted:	12/07/00 18:00
ample ID:	18609-3710	Date Analyzed:	12/08/00 18:04
ab Samp ID:	L025-03	Dilution Factor:	.94
Lab File ID:	TL02060A	Matrix :	WATER
Ext Btch ID:	DSL009W	% Moisture :	NA
alib. Ref.:	TL02053A	Instrument ID :	GCT050

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
DIESEL	ND	.094	.063
JP5	ND	.47	.12

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
BROMOBENZENE	116	65-135
HEXACOSANE	106	60-145

QC LIMIT : (SOIL) 60-140 55-150
QC LIMIT : (WATER) 65-135 60-145
SURR1 : Bromobenzene
SURR2 : Hexacosane
RL : Reporting Limit

METHOD M8015
TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

Client	: IT CORPORATION	Date Collected:	NA
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	12/07/00
Batch No.	: 00L025	Date Extracted:	12/07/00 18:00
Sample ID:	MBLK1W	Date Analyzed:	12/08/00 14:49
Lab Samp ID:	DSL009WB	Dilution Factor:	1
Lab File ID:	TL02056A	Matrix :	WATER
Ext Btch ID:	DSL009W	% Moisture :	NA
Calib. Ref.:	TL02053A	Instrument ID :	GCT050

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
DIESEL	ND	.1	.067
JP5	ND	.5	.13

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
BROMOBENZENE	99	65-135
HEXACOSANE	100	60-145

QC LIMIT : (SOIL) 60-140 55-150
QC LIMIT : (WATER) 65-135 60-145
SURR1 : Bromobenzene
SURR2 Hexacosane
RL : Reporting Limit

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
BATCH NO.: 00L025
METHOD: METHOD M8015

MATRIX:	WATER			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK1W				
LAB SAMP ID:	DSL009WB	DSL009WL	DSL009WC		
LAB FILE ID:	TL02056A	TL02057A	TL02058A		
DATE EXTRACTED:	12/07/0018:00	12/07/0018:00	12/07/0018:00	DATE COLLECTED:	NA
DATE ANALYZED:	12/08/0014:49	12/08/0015:38	12/08/0016:27	DATE RECEIVED:	12/07/00
PREP. BATCH:	DSL009W	DSL009W	DSL009W		
CALIB. REF:	TL02053A	TL02053A	TL02053A		

ACCESSION:

PARAMETER	BLNK RSLT (mg/L)	SPIKE AMT (mg/L)	BS RSLT (mg/L)	BS % REC	SPIKE AMT (mg/L)	BSD RSLT (mg/L)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
Diesel	ND	5	5.13	103	5	5.2	104	1	61-143	30

SURROGATE PARAMETER	SPIKE AMT (mg/L)	BS RSLT (mg/L)	BS % REC	SPIKE AMT (mg/L)	BSD RSLT (mg/L)	BSD % REC	QC LIMIT (%)
Bromobenzene	1	1.14	114	1	1.26	126	65-135
Hexacosane	.25	.268	107	.25	.277	111	60-145

METHOD 5030B/M8015
TOTAL PETROLEUM HYDROCARBONS BY PURGE & TRAP

Client : IT CORPORATION
Project : MCAS EL TORO/18609/D.O. 70
Batch No. : 00L025

Matrix : WATER
Instrument ID : GCT039

SAMPLE ID	EMAX SAMPLE ID	RESULTS (mg/L)	SURR (%)	DLF	MOIST	PRL (mg/L)	MDL (mg/L)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1W	VAL1439B	ND	74	1	NA	.1	.012	12/08/0013:27	12/08/0013:27	EL03039A	EL03031A	VAL1439	NA	12/08/00
LCS1W	VAL1439L	.596	109	1	NA	.1	.012	12/08/0010:35	12/08/0010:35	EL03034A	EL03031A	VAL1439	NA	12/08/00
LCD1W	VAL1439C	.574	110	1	NA	.1	.012	12/08/0011:09	12/08/0011:09	EL03035A	EL03031A	VAL1439	NA	12/08/00
18609-3708	L025-01	.84	118	1	NA	.1	.012	12/08/0020:57	12/08/0020:57	EL03050A	EL03043A	VAL1439	12/04/00	12/04/00
18609-3707	L025-02	ND	86	1	NA	.1	.012	12/08/0021:30	12/08/0021:30	EL03051A	EL03043A	VAL1439	12/04/00	12/04/00
18609-3710	L025-03	ND	89	1	NA	.1	.012	12/08/0022:04	12/08/0022:04	EL03052A	EL03043A	VAL1439	12/04/00	12/04/00

SURR : Bromofluorobenzene (W)65-135 (S)60-140
PRL : Reporting Limit
E : Value exceed the upper level of the initial calibration
D : Value from dilution

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
BATCH NO.: 00L025
METHOD: METHOD 5030B/M8015

MATRIX:	WATER			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK1W				
LAB SAMP ID:	VAL1439B	VAL1439L	VAL1439C		
LAB FILE ID:	EL03039A	EL03034A	EL03035A		
DATE EXTRACTED:	12/08/0013:27	12/08/0010:35	12/08/0011:09	DATE COLLECTED:	NA
DATE ANALYZED:	12/08/0013:27	12/08/0010:35	12/08/0011:09	DATE RECEIVED:	12/08/00
PREP. BATCH:	VAL1439	VAL1439	VAL1439		
CALIB. REF:	EL03031A	EL03031A	EL03031A		

ACCESSION:

PARAMETER	BLNK RSLT (mg/L)	SPIKE AMT (mg/L)	BS RSLT (mg/L)	BS % REC	SPIKE AMT (mg/L)	BSD RSLT (mg/L)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
Gasoline	ND	.55	.596	108	.55	.574	104	4	67-136	30

SURROGATE PARAMETER	SPIKE AMT (mg/L)	BS RSLT (mg/L)	BS % REC	SPIKE AMT (mg/L)	BSD RSLT (mg/L)	BSD % REC	QC LIMIT (%)
Bromofluorobenzene	.02	.0219	109	.02	.022	110	65-135

METHOD 5030A/8260A
VOLATILE ORGANICS BY GC/MS

Client	: IT CORPORATION	Date Collected:	12/04/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	12/04/00
Batch No.	: 00L025	Date Extracted:	12/07/00 10:16
Sample ID:	18609-3707	Date Analyzed:	12/07/00 10:16
Lab Samp ID:	L025-02	Dilution Factor:	1
Lab File ID:	RLQ123	Matrix :	WATER
Ext Btch ID:	VOL1005	% Moisture :	NA
Calib. Ref.:	RLQ112	Instrument ID :	T-005

PARAMETERS	RESULTS (ug/L)	PRL (ug/L)	MDL (ug/L)
1,1,1-TRICHLOROETHANE	ND	5	.91
1,1,2,2-TETRACHLOROETHANE	ND	5	1.1
1,1,2-TRICHLOROETHANE	ND	5	.83
1,1-DICHLOROETHANE	ND	5	.65
1,1-DICHLOROETHENE	ND	5	.86
1,2-DICHLOROETHANE	ND	5	.95
1,2-DICHLOROPROPANE	ND	5	.73
2-BUTANONE	ND	50	6.7
2-CHLOROETHYLVINYLETHER	ND	50	1.3
2-HEXANONE	ND	50	5.6
4-METHYL-2-PENTANONE	ND	50	3.6
ACETONE	10J	50	9.6
BENZENE	ND	5	.77
BROMODICHLOROMETHANE	ND	5	.82
BROMOFORM	ND	5	.74
BROMOMETHANE	ND	5	1.9
CARBON DISULFIDE	ND	5	.61
CARBON TETRACHLORIDE	ND	5	.83
CHLOROBENZENE	ND	5	1.1
CHLOROETHANE	ND	5	1.7
CHLOROFORM	ND	5	.67
CHLOROMETHANE	ND	5	.67
CIS-1,2-DICHLOROETHENE	ND	5	.79
CIS-1,3-DICHLOROPROPENE	ND	5	.79
DIBROMOCHLOROMETHANE	ND	5	.71
ETHYLBENZENE	ND	5	1
MTBE	ND	10	.77
METHYLENE CHLORIDE	ND	5	1.4
STYRENE	ND	5	.87
TETRACHLOROETHENE	ND	5	1.1
TOLUENE	ND	5	.99
TRANS-1,2-DICHLOROETHENE	ND	5	.73
TRANS-1,3-DICHLOROPROPENE	ND	5	.82
TRICHLOROETHENE	ND	5	.89
VINYL ACETATE	ND	50	1.4
VINYL CHLORIDE	ND	5	2.5
XYLENES	ND	5	3.1

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	82	62-139
BROMOFLUOROBENZENE	94	75-125
TOLUENE-D8	103	75-125

PRL: Project Reporting Limit
* : Out side of QC Limit
J : An estimated value between PRL and MDL
E : Value exceed the upper level of the initial calibration
B : Found in the associated blank
D : Value from dilution analysis

METHOD 5030A/8260A
VOLATILE ORGANICS BY GC/MS

Client	: IT CORPORATION	Date Collected:	12/04/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	12/04/00
Batch No.	: 00L025	Date Extracted:	12/07/00 09:40
Sample ID:	18609-3708	Date Analyzed:	12/07/00 09:40
Lab Samp ID:	L025-01	Dilution Factor:	1
Lab File ID:	RLQ122	Matrix :	WATER
Ext Btch ID:	VOL1005	% Moisture :	NA
Calib. Ref.:	RLQ112	Instrument ID :	T-005

PARAMETERS	RESULTS (ug/L)	PRL (ug/L)	MDL (ug/L)
1,1,1-TRICHLOROETHANE	ND	5	.91
1,1,2,2-TETRACHLOROETHANE	ND	5	1.1
1,1,2-TRICHLOROETHANE	ND	5	.83
1,1-DICHLOROETHANE	ND	5	.65
1,1-DICHLOROETHENE	ND	5	.86
1,2-DICHLOROETHANE	ND	5	.95
1,2-DICHLOROPROPANE	ND	5	.73
2-BUTANONE	ND	50	6.7
2-CHLOROETHYLVINYLETHER	ND	50	1.3
2-HEXANONE	ND	50	5.6
4-METHYL-2-PENTANONE	ND	50	3.6
ACETONE	ND	50	9.6
BENZENE	150	5	.77
BROMODICHLOROMETHANE	ND	5	.82
BROMOFORM	ND	5	.74
BROMOMETHANE	ND	5	1.9
CARBON DISULFIDE	ND	5	.61
CARBON TETRACHLORIDE	ND	5	.83
CHLOROBENZENE	ND	5	1.1
CHLOROETHANE	ND	5	1.7
CHLOROFORM	ND	5	.67
CHLOROMETHANE	ND	5	.67
CIS-1,2-DICHLOROETHENE	ND	5	.79
CIS-1,3-DICHLOROPROPENE	ND	5	.79
DIBROMOCHLOROMETHANE	ND	5	.71
ETHYLBENZENE	ND	5	1
MTBE	ND	10	.77
METHYLENE CHLORIDE	3.7J	5	1.4
STYRENE	ND	5	.87
TETRACHLOROETHENE	ND	5	1.1
TOLUENE	ND	5	.99
TRANS-1,2-DICHLOROETHENE	ND	5	.73
TRANS-1,3-DICHLOROPROPENE	ND	5	.82
TRICHLOROETHENE	ND	5	.89
VINYL ACETATE	ND	50	1.4
VINYL CHLORIDE	ND	5	2.5
XYLENES	6.1	5	3.1

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	84	62-139
BROMOFLUOROBENZENE	93	75-125
TOLUENE-D8	101	75-125

PRL: Project Reporting Limit
* : Out side of QC Limit
J : An estimated value between PRL and MDL
E : Value exceed the upper level of the initial calibration
B : Found in the associated blank
D : Value from dilution analysis

METHOD 5030A/8260A
VOLATILE ORGANICS BY GC/MS

Client	: IT CORPORATION	Date Collected:	12/04/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	12/04/00
Batch No.	: 00L025	Date Extracted:	12/07/00 10:54
Sample ID:	18609-3710	Date Analyzed:	12/07/00 10:54
Lab Samp ID:	L025-03	Dilution Factor:	1
Lab File ID:	RLQ124	Matrix	: WATER
Ext Btch ID:	VOL1005	% Moisture	: NA
Calib. Ref.:	RLQ112	Instrument ID	: T-005

PARAMETERS	RESULTS (ug/L)	PRL (ug/L)	MDL (ug/L)
1,1,1-TRICHLOROETHANE	ND	5	.91
1,1,2,2-TETRACHLOROETHANE	ND	5	1.1
1,1,2-TRICHLOROETHANE	ND	5	.83
1,1-DICHLOROETHANE	ND	5	.65
1,1-DICHLOROETHENE	ND	5	.86
1,2-DICHLOROETHANE	ND	5	.95
1,2-DICHLOROPROPANE	ND	5	.73
2-BUTANONE	ND	50	6.7
2-CHLOROETHYLVINYLETHER	ND	50	1.3
2-HEXANONE	ND	50	5.6
4-METHYL-2-PENTANONE	ND	50	3.6
ACETONE	ND	50	9.6
BENZENE	ND	5	.77
BROMODICHLOROMETHANE	ND	5	.82
BROMOFORM	ND	5	.74
BROMOMETHANE	ND	5	1.9
CARBON DISULFIDE	ND	5	.61
CARBON TETRACHLORIDE	ND	5	.83
CHLOROBENZENE	ND	5	1.1
CHLOROETHANE	ND	5	1.7
CHLOROFORM	ND	5	.67
CHLOROMETHANE	ND	5	.67
CIS-1,2-DICHLOROETHENE	ND	5	.79
CIS-1,3-DICHLOROPROPENE	ND	5	.79
DIBROMOCHLOROMETHANE	ND	5	.71
ETHYLBENZENE	ND	5	1
MTBE	ND	10	.77
METHYLENE CHLORIDE	4.2J	5	1.4
STYRENE	ND	5	.87
TETRACHLOROETHENE	ND	5	1.1
TOLUENE	ND	5	.99
TRANS-1,2-DICHLOROETHENE	ND	5	.73
TRANS-1,3-DICHLOROPROPENE	ND	5	.82
TRICHLOROETHENE	ND	5	.89
VINYL ACETATE	ND	50	1.4
VINYL CHLORIDE	ND	5	2.5
XYLENES	ND	5	3.1

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	82	62-139
BROMOFLUOROBENZENE	96	75-125
TOLUENE-D8	100	75-125

PRL: Project Reporting Limit
* : Out side of QC Limit
J : An estimated value between PRL and MDL
E : Value exceed the upper level of the initial calibration
B : Found in the associated blank
D : Value from dilution analysis

METHOD 5030A/8260A
VOLATILE ORGANICS BY GC/MS

Client	: IT CORPORATION	Date Collected:	NA
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	12/07/00
Batch No.	: OOL025	Date Extracted:	12/07/00 05:55
Sample ID:	MBLK1W	Date Analyzed:	12/07/00 05:55
Lab Samp ID:	VOL1005B	Dilution Factor:	1
Lab File ID:	RLQ116	Matrix :	WATER
Ext Btch ID:	VOL1005	% Moisture :	NA
Calib. Ref.:	RLQ112	Instrument ID :	T-005

PARAMETERS	RESULTS (ug/L)	PRL (ug/L)	MDL (ug/L)
1,1,1-TRICHLOROETHANE	ND	5	.91
1,1,2,2-TETRACHLOROETHANE	ND	5	1.1
1,1,2-TRICHLOROETHANE	ND	5	.83
1,1-DICHLOROETHANE	ND	5	.65
1,1-DICHLOROETHENE	ND	5	.86
1,2-DICHLOROETHANE	ND	5	.95
1,2-DICHLOROPROPANE	ND	5	.73
2-BUTANONE	ND	50	6.7
2-CHLOROETHYLVINYLETHER	ND	50	1.3
2-HEXANONE	ND	50	5.6
4-METHYL-2-PENTANONE	ND	50	3.6
ACETONE	ND	50	9.6
BENZENE	ND	5	.77
BROMODICHLOROMETHANE	ND	5	.82
BROMOFORM	ND	5	.74
BROMOMETHANE	ND	5	1.9
CARBON DISULFIDE	ND	5	.61
CARBON TETRACHLORIDE	ND	5	.83
CHLOROBENZENE	ND	5	1.1
CHLOROETHANE	ND	5	1.7
CHLOROFORM	ND	5	.67
CHLOROMETHANE	ND	5	.67
CIS-1,2-DICHLOROETHENE	ND	5	.79
CIS-1,3-DICHLOROPROPENE	ND	5	.79
DIBROMOCHLOROMETHANE	ND	5	.71
ETHYLBENZENE	ND	5	1
MTBE	ND	10	.77
METHYLENE CHLORIDE	ND	5	1.4
STYRENE	ND	5	.87
TETRACHLOROETHENE	ND	5	1.1
TOLUENE	ND	5	.99
TRANS-1,2-DICHLOROETHENE	ND	5	.73
TRANS-1,3-DICHLOROPROPENE	ND	5	.82
TRICHLOROETHENE	ND	5	.89
VINYL ACETATE	ND	50	1.4
VINYL CHLORIDE	ND	5	2.5
XYLENES	ND	5	3.1

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	83	62-139
BROMOFLUOROBENZENE	91	75-125
TOLUENE-D8	100	75-125

PRL: Project Reporting Limit
* : Out side of QC Limit
J : An estimated value between PRL and MDL
E : Value exceed the upper level of the initial calibration
B : Found in the associated blank
D : Value from dilution analysis

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
BATCH NO.: 00L025
METHOD: METHOD 5030A/8260A

MATRIX:	WATER			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK1W				
LAB SAMP ID:	VOL1005B	VOL1005L	VOL1005C		
LAB FILE ID:	RLQ116	RLQ114	RLQ115		
DATE EXTRACTED:	12/07/0005:55	12/07/0004:40	12/07/0005:17	DATE COLLECTED:	NA
DATE ANALYZED:	12/07/0005:55	12/07/0004:40	12/07/0005:17	DATE RECEIVED:	12/07/00
PREP. BATCH:	VOL1005	VOL1005	VOL1005		
CALIB. REF:	RLQ112	RLQ112	RLQ112		

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
1,1-Dichloroethene	ND	20	18.7	93	20	18.6	93	0	75-125	20
Benzene	ND	20	22.3	112	20	23.3	117	4	75-125	20
Chlorobenzene	ND	20	19.5	98	20	19.6	98	0	75-125	20
Toluene	ND	20	20.6	103	20	21.2	106	3	74-125	20
Trichloroethene	ND	20	20.5	102	20	21	105	2	71-125	20

SURROGATE PARAMETER	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	QC LIMIT (%)
1,2-Dichlorethane-d4	50	41	82	50	41.2	82	62-139
Bromofluorobenzene	50	45.3	91	50	45.1	90	75-125
Toluene-d8	50	49.4	99	50	50.6	101	75-125

METHOD 300.0
NITRATE/NITRITE-N

Client : IT CORPORATION
Project : MCAS EL TORO/18609/D.O. 70
Batch No. : OOL025

Matrix : WATER
Instrument ID : TI006

SAMPLE ID	EMAX SAMPLE ID	RESULTS (mg/L)	DLF	MOIST	RL (mg/L)	MDL (mg/L)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1W	ICL019WB	ND	1	NA	.1	.0206	12/09/0018:59	NA	AL09027A	AL09025A	ICL019W	NA	NA
LCS1W	ICL019WL	3.93	1	NA	.1	.0206	12/09/0019:16	NA	AL09028A	AL09025A	ICL019W	NA	NA
18609-3708	L025-01	7.43	10	NA	1	.206	12/09/0023:31	NA	AL09043A	AL09037A	ICL019W	12/04/00	12/04/00
18609-3710	L025-03	2.53	10	NA	1	.206	12/09/0023:48	NA	AL09044A	AL09037A	ICL019W	12/04/00	12/04/00

RL: Reporting Limit

METHOD 300.0
ORTHOPHOSPHATE-P

Client : IT CORPORATION
Project : MCAS EL TORO/18609/D.O. 70
Batch No. : 00L025

Matrix : WATER
Instrument ID : TI006

SAMPLE ID	EMAX SAMPLE ID	RESULTS (mg/L)	DLF	MOIST	RL (mg/L)	MDL (mg/L)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1W	ICL018WB	ND	1	NA	.5	.0322	12/09/0012:10	NA	AL09003A	AL09001A	ICL018W	NA	NA
LCS1W	ICL018WL	2.05	1	NA	.5	.0322	12/09/0012:27	NA	AL09004A	AL09001A	ICL018W	NA	NA
LCD1W	ICL018WC	2.05	1	NA	.5	.0322	12/09/0012:44	NA	AL09005A	AL09001A	ICL018W	NA	NA
18609-3708	L025-01	ND	1	NA	.5	.0322	12/09/0014:26	NA	AL09011A	AL09001A	ICL018W	12/04/00	12/04/00
18609-3710	L025-03	ND	1	NA	.5	.0322	12/09/0014:43	NA	AL09012A	AL09001A	ICL018W	12/04/00	12/04/00

RL : Reporting Limit

METHOD 300.0
SULFATE

Client : IT CORPORATION
Project : MCAS EL TORO/18609/D.O. 70
Batch No. : 00L025

Matrix : WATER
Instrument ID : TI006

SAMPLE ID	EMAX SAMPLE ID	RESULTS (mg/L)	DLF	MOIST	RL (mg/L)	MDL (mg/L)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1W	ICL018WB	ND	1	NA	.5	.101	12/09/0012:10	NA	AL09003A	AL09001A	ICL018W	NA	NA
LCS1W	ICL018WL	20.4	1	NA	.5	.101	12/09/0012:27	NA	AL09004A	AL09001A	ICL018W	NA	NA
LCD1W	ICL018WC	20.4	1	NA	.5	.101	12/09/0012:44	NA	AL09005A	AL09001A	ICL018W	NA	NA
18609-3710	L025-03	6.4	1	NA	.5	.101	12/09/0014:43	NA	AL09012A	AL09001A	ICL018W	12/04/00	12/04/00
18609-3708	L025-01	90.2	25	NA	12.5	2.53	12/09/0016:59	NA	AL09020A	AL09013A	ICL018W	12/04/00	12/04/00

RL : Reporting Limit

EMAX QUALITY CONTROL DATA
LCS ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
BATCH NO.: 00L025
METHOD: METHOD 300.0

==========

MATRIX:	WATER		% MOISTURE:	NA
DILUTION FACTOR:	1	1		
SAMPLE ID:	MBLK1W			
LAB SAMP ID:	ICL019WB	ICL019WL		
LAB FILE ID:	AL09027A	AL09028A		
DATE EXTRACTED:	NA	NA	DATE COLLECTED:	NA
DATE ANALYZED:	12/09/0018:59	12/09/0019:16	DATE RECEIVED:	NA
PREP. BATCH:	ICL019W	ICL019W		
CALIB. REF:	AL09025A	AL09025A		

ACCESSION:

PARAMETER	BLNK RSLT (mg/L)	SPIKE AMT (mg/L)	BS RSLT (mg/L)	BS % REC	QC LIMIT (%)
Nitrate/Nitrite-N	ND	4	3.93	98	80-120

8007

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

LIENT: IT CORPORATION
ROJECT: MCAS EL TORO/18609/D.O. 70
ATCH NO.: OOL025
ETHOD: METHOD 300.0

==========

ATRIX: WATER % MOISTURE: NA

ILUTION FACTOR:	1	1	1		
AMPLE ID:	MBLK1W				
AB SAMP ID:	ICL018WB	ICL018WL	ICL018WC		
AB FILE ID:	AL09003A	AL09004A	AL09005A		
ATE EXTRACTED:	NA	NA	NA	DATE COLLECTED:	NA
ATE ANALYZED:	12/09/0012:10	12/09/0012:27	12/09/0012:44	DATE RECEIVED:	NA
REP. BATCH:	ICL018W	ICL018W	ICL018W		
ALIB. REF:	AL09001A	AL09001A	AL09001A		

ACCESSION:

PARAMETER	BLNK RSLT (mg/L)	SPIKE AMT (mg/L)	BS RSLT (mg/L)	BS % REC	SPIKE AMT (mg/L)	BSD RSLT (mg/L)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
Orthophosphate-P	ND	2	2.05	103	2	2.05	103	0	80-120	20

8008

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
BATCH NO.: 00L025
METHOD: METHOD 300.0

MATRIX:	WATER			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK1W				
LAB SAMP ID:	ICL018WB	ICL018WL	ICL018WC		
LAB FILE ID:	AL09003A	AL09004A	AL09005A		
DATE EXTRACTED:	NA	NA	NA	DATE COLLECTED:	NA
DATE ANALYZED:	12/09/0012:10	12/09/0012:27	12/09/0012:44	DATE RECEIVED:	NA
PREP. BATCH:	ICL018W	ICL018W	ICL018W		
CALIB. REF:	AL09001A	AL09001A	AL09001A		

ACCESSION:

PARAMETER	BLNK RSLT (mg/L)	SPIKE AMT (mg/L)	BS RSLT (mg/L)	BS % REC	SPIKE AMT (mg/L)	BSD RSLT (mg/L)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
Sulfate	ND	20	20.4	102	20	20.4	102	0	80-120	20

6008

METHOD 310.1
TOTAL ALKALINITY

Client : IT CORPORATION
Project : MCAS EL TORO/18609/D.O. 70
Batch No. : 00L025

Matrix : WATER
Instrument ID : NA

SAMPLE ID	EMAX SAMPLE ID	RESULTS (mg/L)	DLF	MOIST	RL (mg/L)	MDL (mg/L)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1W	ALL001WB	ND	1	NA	5	.469	12/06/0009:00	NA	ALL001W-01	NA	ALL001W	NA	NA
LCS1W	ALL001WL	102	1	NA	5	.469	12/06/0009:15	NA	ALL001W-02	NA	ALL001W	NA	NA
LCD1W	ALL001WC	105	1	NA	5	.469	12/06/0009:30	NA	ALL001W-03	NA	ALL001W	NA	NA
18609-3708	L025-01	386	1	NA	5	.469	12/06/0011:45	NA	ALL001W-12	NA	ALL001W	12/04/00	12/04/00
18609-3710	L025-03	ND	1	NA	5	.469	12/06/0012:00	NA	ALL001W-13	NA	ALL001W	12/04/00	12/04/00

RL: Reporting Limit

EMAX QUALITY CONTROL DATA
MS ANALYSIS

IENT: IT CORPORATION
OJECT: MCAS EL TORO/18609/D.O. 70
THOD: METHOD 310.1
TRIX: WATER
MOISTURE: NA

TCH NO.: 00L025 DATE RECEIVED: NA
MPLE ID: 18609-3694MS DATE EXTRACTED: NA
NTROL NO.: K253-01M DATE ANALYZED: 12/06/00 10:15

CESSION:

RAMETER	SMPL RSLT (mg/L)	SPIKE AMT (mg/L)	MS RSLT (mg/L)	MS % REC	QC LIMIT (%)
kalinity	343	58.5	397	92	80-120

8030

EMAX QUALITY CONTROL DATA
DUPLICATE ANALYSIS

ENT: IT CORPORATION
JECT: MCAS EL TORO/18609/D.O. 70
HOD: METHOD 310.1
RIX: WATER
OISTURE: NA

TCH NO.: 00L025
MPLE ID: 18609-3694DUP
NTROL NO.: K253-01D

DATE RECEIVED: NA
DATE EXTRACTED: NA
DATE ANALYZED: 12/06/00 10:00

CESSION:

RAMETER	SAMPLE (mg/L)	DUP. SAMPLE (mg/L)	RPD (%)	RPD LIMIT (%)
kalinity	343	340	1	20

80031

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

IENT: IT CORPORATION
OJECT: MCAS EL TORO/18609/D.O. 70
THOD: METHOD 310.1
TRIX: WATER
MOISTURE: NA

ATCH NO.: 00L025
AMPLE ID: LCS1W/LCD1W
ONTROL NO.: ALL001WL/C

DATE RECEIVED: NA
DATE EXTRACTED: NA
DATE ANALYZED: 12/06/00 09:15/09:30

CCESSION:

ARAMETER	BLNK RSLT (mg/L)	SPIKE AMT (mg/L)	BS RSLT (mg/L)	BS % REC	SPIKE AMT (mg/L)	BSD RSLT (mg/L)	BSD % REC	RPD %	QC LIMIT %	RPD LIMIT %
lkalinity	ND	101	102	101	101	105	104	3	80-120	20

80032

METHOD 160.1
TOTAL DISSOLVED SOLIDS

Client : IT CORPORATION
Project : MCAS EL TORO/18609/D.O. 70
Batch No. : 00L025

Matrix : WATER
Instrument ID : NA

SAMPLE ID	EMAX SAMPLE ID	RESULTS (mg/L)	DLF	MOIST	RL (mg/L)	MDL (mg/L)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1W	DSL006WB	ND	1	NA	10	4.33	12/08/0014:00	NA	DSL006W-01	NA	DSL006W	NA	NA
LCS1W	DSL006WL	455	1	NA	10	4.33	12/08/0014:01	NA	DSL006W-02	NA	DSL006W	NA	NA
LCD1W	DSL006WC	480	1	NA	10	4.33	12/08/0014:02	NA	DSL006W-03	NA	DSL006W	NA	NA
18609-3708	L025-01	880	1	NA	10	4.33	12/08/0014:03	NA	DSL006W-04	NA	DSL006W	12/04/00	12/04/00
18609-3708DUP	L025-01D	895	1	NA	10	4.33	12/08/0014:04	NA	DSL006W-05	NA	DSL006W	12/04/00	12/04/00
18609-3710	L025-03	75.0	1	NA	10	4.33	12/08/0014:05	NA	DSL006W-06	NA	DSL006W	12/04/00	12/04/00

RL : Reporting Limit

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

IENT: IT CORPORATION
OJECT: MCAS EL TORO/18609/D.O. 70
THOD: METHOD 160.1
TRIX: WATER
MOISTURE: NA

TCH NO.: 00L025
MPLE ID: LCS1W/LCD1W
NTROL NO.: DSL006WL/C

DATE RECEIVED: NA
DATE EXTRACTED: NA
DATE ANALYZED: 12/08/00 14:01/14:02

CESSION:

RAMETER	BLNK RSLT (mg/L)	SPIKE AMT (mg/L)	BS RSLT (mg/L)	BS % REC	SPIKE AMT (mg/L)	BSD RSLT (mg/L)	BSD % REC	RPD %	QC LIMIT %	RPD LIMIT %
S	ND	442	455	103	442	480	109	5	80-120	20

8037

METHOD 351.3
TKN

Client : IT CORPORATION
Project : MCAS EL TORO/18609/D.O. 70
Batch No. : 00L025

Matrix : WATER
Instrument ID : I21

SAMPLE ID	EMAX SAMPLE ID	RESULTS (mg/L)	DLF	MOIST	RL (mg/L)	MDL (mg/L)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1W	KNL002WB	ND	1	NA	1	.0255	12/06/0010:10	12/05/0014:30	KNL002W-11	NA	KNL002W	NA	NA
LCS1W	KNL002WL	9.97	1	NA	1	.0255	12/06/0010:11	12/05/0014:30	KNL002W-12	NA	KNL002W	NA	NA
LCD1W	KNL002WC	10.0	1	NA	1	.0255	12/06/0010:12	12/05/0014:30	KNL002W-13	NA	KNL002W	NA	NA
18609-3708	L025-01	ND	1	NA	1	.0255	12/06/0010:18	12/05/0014:30	KNL002W-19	NA	KNL002W	12/04/00	12/04/00
18609-3710	L025-03	ND	1	NA	1	.0255	12/06/0010:19	12/05/0014:30	KNL002W-20	NA	KNL002W	12/04/00	12/04/00

RL : Reporting Limit

EMAX QUALITY CONTROL DATA
MS ANALYSIS

ENT: IT CORPORATION
JECT: MCAS EL TORO/18609/D.O. 70
HOD: METHOD 351.3
RIX: WATER
OISTURE: NA

CH NO.: 00L025
IPLE ID: 18609-3697MS
ITROL NO.: K253-03M

DATE RECEIVED: NA
DATE EXTRACTED: 12/05/00 14:30
DATE ANALYZED: 12/06/00 10:16

:ESSION:

:AMETER	SMPL RSLT (mg/L)	SPIKE AMT (mg/L)	MS RSLT (mg/L)	MS % REC	QC LIMIT (%)
I	.693J	.6	1.28	98	80-120

8041

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

IENT: IT CORPORATION
OJECT: MCAS EL TORO/18609/D.O. 70
THOD: METHOD 351.3
TRIX: WATER
MOISTURE: NA

TCH NO.: 00L025
MPLE ID: LCS1W/LCD1W
NTROL NO.: KNL002WL/C

DATE RECEIVED: NA
DATE EXTRACTED: NA
DATE ANALYZED: 12/06/00 10:11/10:12

CESSION:

RAMETER	BLNK RSLT (mg/L)	SPIKE AMT (mg/L)	BS RSLT (mg/L)	BS % REC	SPIKE AMT (mg/L)	BSD RSLT (mg/L)	BSD % REC	RPD %	QC LIMIT %	RPD LIMIT %
N	ND	10.9	9.97	91	10.9	10.0	92	0	80-120	20

80443

METHOD 120.1
SPECIFIC CONDUCTIVITY

Client : IT CORPORATION
Project : MCAS EL TORO/18609/D.O. 70
Batch No. : 00L025

Matrix : WATER
Instrument ID : I34

SAMPLE ID	EMAX SAMPLE ID	RESULTS (umhos/cm)	DLF	MOIST	RL (umhos/cm)	MDL (umhos/cm)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
LCS1W	ECL002WL	399	1	NA	1	.197	12/07/0018:42	NA	ECL002W-1	NA	ECL002W	NA	NA
LCD1W	ECL002WC	408	1	NA	1	.197	12/07/0018:43	NA	ECL002W-2	NA	ECL002W	NA	NA
18609-3708	L025-01	1240	1	NA	1	.197	12/07/0018:46	NA	ECL002W-3	NA	ECL002W	12/04/00	12/04/00
18609-3710	L025-03	32.9	1	NA	1	.197	12/07/0018:48	NA	ECL002W-4	NA	ECL002W	12/04/00	12/04/00

RL: Reporting Limit

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

IENT: IT CORPORATION
OJECT: MCAS EL TORO/18609/D.O. 70
THOD: METHOD 120.1
TRIX: WATER
MOISTURE: NA

TCH NO.: 00L025
MPLE ID: LCS1W/LCD1W
NTROL NO.: ECL002WL/C

DATE RECEIVED: NA
DATE EXTRACTED: NA
DATE ANALYZED: 12/07/00 18:42/18:43

CESSION:

ARAMETER	BLNK RSLT (umhos/cm)	SPIKE AMT (umhos/cm)	BS RSLT (umhos/cm)	BS % REC	SPIKE AMT (umhos/cm)	BSD RSLT (umhos/cm)	BSD % REC	RPD %	QC LIMIT %	RPD LIMIT %
pecific Conductivity	ND	409	399	98	409	408	100	2	80-120	20

8019

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: MCAS El Toro

Collection Date: December 4, 2000

LDC Report Date: January 4, 2001

Matrix: Water

Parameters: Total Petroleum Hydrocarbons as Extractables

Validation Level: NFESC Level C

Laboratory: EMAX Laboratories, Inc.

Sample Delivery Group (SDG): 00L025

Sample Identification

18609-3708
18609-3710

Introduction

This data review covers 2 water samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8015 modified for Total Petroleum Hydrocarbons (TPH) as Extractables.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (October 1999) as there are no current guidelines for the method stated above.

A table summarizing all data qualification is provided at the end of this report. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Blank results are summarized in Section III.

Field duplicates are summarized in Section IX.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Calibration

a. Initial Calibration

Initial calibration of compounds was performed as required by the method.

The percent relative standard deviations (%RSD) of calibration factors for compounds were less than or equal to 20.0% .

b. Calibration Verification

Calibration verification was performed at required frequencies. The percent differences (%D) of amounts in continuing standard mixtures were within the 15.0% QC limits.

III. Blanks

Method blanks were reviewed for each matrix as applicable. No total petroleum hydrocarbons as extractable contaminants were found in the method blanks.

IV. Accuracy and Precision Data

a. Surrogate Recovery

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

b. Matrix Spike/Matrix Spike Duplicates

The laboratory has indicated that there were no matrix spike (MS) and matrix spike duplicate (MSD) analyses specified for the samples in this SDG, and therefore matrix spike and matrix spike duplicate analyses were not performed for this SDG.

c. Laboratory Control Samples

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

V. Target Compound Identification

Raw data were not reviewed for this SDG.

VI. Compound Quantitation and CRQLs

Raw data were not reviewed for this SDG.

VII. System Performance

Raw data were not reviewed for this SDG.

VIII. Overall Assessment of Data

Data flags have been summarized at the end of this report.

IX. Field Duplicates

No field duplicates were identified in this SDG.

X. Field Blanks

No field blanks were identified in this SDG.

MCAS El Toro
Total Petroleum Hydrocarbons as Extractables - Data Qualification Summary - SDG 00L025

No Sample Data Qualified in this SDG

MCAS El Toro
Total Petroleum Hydrocarbons as Extractables - Laboratory Blank Data Qualification Summary - SDG 00L025

No Sample Data Qualified in this SDG

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: MCAS El Toro

Collection Date: December 4, 2000

LDC Report Date: January 4, 2001

Matrix: Water

Parameters: Total Petroleum Hydrocarbons as Gasoline

Validation Level: NFESC Level C

Laboratory: EMAX Laboratories, Inc.

Sample Delivery Group (SDG): 00L025

Sample Identification

18609-3708
18609-3707
18609-3710

Introduction

This data review covers 3 water samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8015 modified for Total Petroleum Hydrocarbons (TPH) as Gasoline.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (October 1999) as there are no current guidelines for the method stated above.

A table summarizing all data qualification is provided at the end of this report. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Blank results are summarized in Section III.

Field duplicates are summarized in Section IX.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Calibration

a. Initial Calibration

Initial calibration of compounds was performed as required by the method.

The percent relative standard deviations (%RSD) of calibration factors for compounds were less than or equal to 20.0% .

b. Calibration Verification

Calibration verification was performed at required frequencies. The percent differences (%D) of amounts in continuing standard mixtures were within the 15.0% QC limits.

III. Blanks

Method blanks were reviewed for each matrix as applicable. No total petroleum hydrocarbons as gasoline contaminants were found in the method blanks.

IV. Accuracy and Precision Data

a. Surrogate Recovery

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

b. Matrix Spike/Matrix Spike Duplicates

The laboratory has indicated that there were no matrix spike (MS) and matrix spike duplicate (MSD) analyses specified for the samples in this SDG, and therefore matrix spike and matrix spike duplicate analyses were not performed for this SDG.

c. Laboratory Control Samples

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

V. Target Compound Identification

Raw data were not reviewed for this SDG.

VI. Compound Quantitation and CRQLs

Raw data were not reviewed for this SDG.

VII. System Performance

Raw data were not reviewed for this SDG.

VIII. Overall Assessment of Data

Data flags have been summarized at the end of this report.

IX. Field Duplicates

No field duplicates were identified in this SDG.

X. Field Blanks

Sample 18609-3707 was identified as a trip blank. No total petroleum hydrocarbons as gasoline contaminants were found in this blank.

MCAS El Toro
Total Petroleum Hydrocarbons as Gasoline - Data Qualification Summary - SDG 00L025

No Sample Data Qualified in this SDG

MCAS El Toro
Total Petroleum Hydrocarbons as Gasoline - Laboratory Blank Data Qualification Summary - SDG 00L025

No Sample Data Qualified in this SDG

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: MCAS El Toro

Collection Date: December 4, 2000

LDC Report Date: December 29, 2000

Matrix: Water

Parameters: Volatiles

Validation Level: NFESC Level C

Laboratory: EMAX Laboratories, Inc.

Sample Delivery Group (SDG): 00L025

Sample Identification

18609-3708
18609-3707
18609-3710

Introduction

This data review covers 3 water samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8260A for Volatiles.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (October 1999) as there are no current guidelines for the method stated above.

A table summarizing all data qualification is provided at the end of this report. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Blank results are summarized in Section V.

Field duplicates are summarized in Section XVI.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. GC/MS Instrument Performance Check

Instrument performance was checked at 12 hour intervals.

All ion abundance requirements were met.

III. Initial Calibration

Initial calibration was performed using required standard concentrations.

Percent relative standard deviations (%RSD) were less than or equal to 30.0% for all calibration check compounds and less than or equal to 50.0% for all other compounds.

Average relative response factors (RRF) for all volatile target compounds and system performance check compounds (SPCCs) were within method and validation criteria.

IV. Continuing Calibration

Continuing calibration was performed at the required frequencies.

All of the continuing calibration percent differences (%D) between the initial calibration RRF and the continuing calibration RRF were less than or equal to 25.0% for all calibration check compounds and less than or equal to 50.0% for all other compounds.

All of the continuing calibration RRF values were within method and validation criteria.

V. Blanks

Method blanks were reviewed for each matrix as applicable. No volatile contaminants were found in the method blanks.

VI. Surrogate Spikes

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

VII. Matrix Spike/Matrix Spike Duplicates

The laboratory has indicated that there were no matrix spike (MS) and matrix spike duplicate (MSD) analyses specified for the samples in this SDG, and therefore matrix spike and matrix spike duplicate analyses were not performed for this SDG.

VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

IX. Regional Quality Assurance and Quality Control

Not applicable.

X. Internal Standards

All internal standard areas and retention times were within QC limits.

XI. Target Compound Identifications

Raw data were not reviewed for this SDG.

XII. Compound Quantitation and CRQLs

Raw data were not reviewed for this SDG.

XIII. Tentatively Identified Compounds (TICs)

Raw data were not reviewed for this SDG.

XIV. System Performance

Raw data were not reviewed for this SDG.

XV. Overall Assessment of Data

Data flags have been summarized at the end of the report.

XVI. Field Duplicates

No field duplicates were identified in this SDG.

XVII. Field Blanks

Sample 18609-3707 was identified as a trip blank. No volatile contaminants were found in this blank with the following exceptions:

Trip Blank ID	Compound	Concentration (ug/L)
18609-3707	Acetone	10

MCAS El Toro
Volatiles - Data Qualification Summary - SDG 00L025

No Sample Data Qualified in this SDG

MCAS El Toro
Volatiles - Laboratory Blank Data Qualification Summary - SDG 00L025

No Sample Data Qualified in this SDG

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: MCAS El Toro

Collection Date: December 4, 2000

LDC Report Date: January 2, 2001

Matrix: Water

Parameters: Wet Chemistry

Validation Level: NFESC Level C

Laboratory: EMAX Laboratories, Inc.

Sample Delivery Group (SDG): 00L025

Sample Identification

18609-3708
18609-3710
18609-3708DUP

Introduction

This data review covers 3 water samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA Method 120.1 for Conductivity, EPA Method 160.1 for Total Dissolved Solids, EPA Method 300.0 for Nitrate/Nitrite as Nitrogen, Sulfate, and Orthophosphate, EPA Method 310.1 for Alkalinity, and EPA Method 351.3 for Total Kjeldahl Nitrogen.

The review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review (February 1994) as there are no current guidelines for the methods stated above.

A table summarizing all data qualification is provided at the end of this report. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Blank results are summarized in Section III.

Field duplicates are summarized in Section VII.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met with the following exceptions:

Sample	Analyte	Total Time From Sample Collection Until Analysis	Required Holding Time From Sample Collection Until Analysis	Flag	A or P
18609-3708 18609-3710	Orthophosphate	5 days	48 hours	J (all detects) R (all non-detects)	P

Non-detected sample concentrations were qualified as unusable (R) due to a gross exceedance (>2X) of holding time.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Calibration

a. Initial Calibration

All criteria for the initial calibration of each method were met with the following exceptions:

Sample	Analyte	Finding	Criteria	Flag	A or P
All samples in SDG 00L025	Sulfate Nitrate/Nitrite as N Orthophosphate Total kjeldahl nitrogen	A blank was not used to establish the calibration curve.	A blank must be used to establish the calibration curve.	None None None None	P

b. Calibration Verification

Calibration verification frequency and analysis criteria were met for each method when applicable.

III. Blanks

Method blanks were reviewed for each matrix as applicable. No contaminant concentrations were found in the method blanks.

IV. Accuracy and Precision Data

a. Matrix Spike/(Matrix Spike) Duplicates

Matrix spike (MS) samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

Duplicate (DUP) sample analyses were reviewed for each matrix as applicable. Relative percent differences (RPD) were within QC limits.

b. Laboratory Control Samples

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

V. Sample Result Verification

Raw data were not reviewed for this SDG.

VI. Overall Assessment of Data

Data flags are summarized at the end of this report.

VII. Field Duplicates

No field duplicates were identified in this SDG.

VIII. Field Blanks

No field blanks were identified in this SDG.

MCAS El Toro
Wet Chemistry - Data Qualification Summary - SDG 00L025

SDG	Sample	Analyte	Flag	A or P	Reason
00L025	18609-3708 18609-3710	Orthophosphate	J (all detects) R (all non-detects)	P	Technical holding times
00L025	18609-3708 18609-3710	Nitrate/Nitrite as N Sulfate Orthophosphate Total kjeldahl nitrogen	None None None None	P	Initial calibration

MCAS El Toro
Wet Chemistry - Laboratory Blank Data Qualification Summary - SDG 00L025

No Sample Data Qualified in this SDG

the IT group

IT Corporation
2790 Mosside Blvd.
Monroeville, PA 15146-2792
(412)372-7701

CHAIN-OF-CUSTODY RECORD

TF 398 - GW (Semi-Annual)

PROJECT DATA MANAGER'S COPY

A 12397

FORM 0019 REV. 9-99

IT'S LAB COORDINATOR: M. Gonzalez	LAB COORDINATOR'S PHONE: 949-660-7550	LAB COORDINATOR'S FAX: 949-475-5433	LABORATORY SERVICE ID: 00L042	LABORATORY CONTACT: EMAX	MAIL REPORT (COMPANY NAME): IT Group
PROJECT NAME: TF 398	PROJECT LOCATION: MCAS El Toro	PROJECT NUMBER: 18609	LABORATORY PHONE: 310-618-8889	LABORATORY FAX: 310-618-0818	RECIPIENT NAME: Dwayne Ishida
PROJECT CONTACT: M. Gonzalez	PROJECT PHONE NUMBER: 949-451-1666	PROJECT FAX: 949-451-1672	LABORATORY ADDRESS: 630 Maple Ave	ADDRESS: 3347 Michelson #200	
PROJECT ADDRESS: Bldg. 311 MCAS El Toro	CITY, STATE AND ZIP CODE: Santa Ana, CA 92708	CLIENT: SWDIV	CITY, STATE AND ZIP CODE: Torrance, CA 92705	CITY, STATE AND ZIP CODE: Irvine, CA 92612	
PROJECT MANAGER: D. Rawal	PROJECT MANAGER'S PHONE: 949-660-7576	PROJECT MANAGER'S FAX: 949-474-8709			

Item	Sample Identifier	Matrix	Date	Time	Preserved	# of Cont.	QC Level	T.A.T.	Analyses: 8260	TPH-gas	TPH-Diesel	TPH-JP5	Spec. Cond.	TDS	SO_4	PO_4	TKN, NO3	Comments
1	18609-3711	W	12/5	0730	4°C	4	3	5 day	X	X								
2	18609-3712	W	12/5	1015 ~~2730~~	4°C	11	3	5 day	X	X	X	X	X	X	X	X		
3	18609-3713	W	12/5	1400	4°C	10	3	5 day	X	X	X	X	X	X	X	X		
4	18609-3714	W	12/5	1500	4°C	8	3	5 day	X	X	X	X	X	X	X	X		
5																		
6																		
7																		
8																		
9																		
10																		

W. J. 12/5/00

SAMPLES COLLECTED BY: W. Jefferson

COURIER AND AIR BILL NUMBER: Courier

COOLER TEMPERATURE UPON RECEIPT:

RELINQUISHED BY	RECEIVED BY	DATE	TIME	SAMPLE'S CONDITION UPON RECEIPT
Wayne Jefferson	[illegible]	12-5-00	330	

Distribution: White - Laboratory (To be returned with Analytical Report); Goldenrod - Project File; Manilla - Project Data Manager

Project Information Section
For Project Personnel Only
Do Not Submit to Laboratory

Sample Point Location	Sample Type: G	C	F	QC
① Trip Blank	X			X
② TF6-MW-02	X			
③ ~~TF6~~ 398-MW-27	X			
④ Equip Rinsate #2				

Comments

due 12/13/00 rec'd 12/13/00

Sample Type: G - Grab, C - Composite, F - Field Sample, QC - Quality Control Sample

6307

EMAX
LABORATORIES, INC.
630 Maple Ave.
Torrance, CA 90503
Telephone: (310) 618-8889
Fax: (310) 618-0818

Date: 12-15-2000
EMAX Batch No.: 00L042

Attn: Dwayne Ishida

IT Corporation
3347 Michelson Dr. # 200
Irvine CA 92612

Subject: Laboratory Report
Project: MCAS El Toro/18609/D.O. 70

Enclosed is the Laboratory report for samples received on 12/05/00. The data reported include :

Sample ID	Control #	Col Date	Matrix	Analysis
18609-3711	L042-01	12/05/00	WATER	VOLATILE ORGANICS BY GC/MS
				TPH GASOLINE
18609-3712	L042-02	12/05/00	WATER	VOLATILE ORGANICS BY GC/MS
				TPH GASOLINE
				TPH DIESEL
				SPECIFIC CONDUCTANCE
				SOLIDS TOTAL DISSOLVED
				SULFATE BY IC
				ALKALINITY
				PHOSPHATE-P
				TKN
				NITRATE-N BY IC
18609-3713	L042-03	12/05/00	WATER	VOLATILE ORGANICS BY GC/MS
				TPH GASOLINE
				TPH DIESEL
				SPECIFIC CONDUCTANCE
				SOLIDS TOTAL DISSOLVED
				SULFATE BY IC
				ALKALINITY

Sample ID	Control #	Col Date	Matrix	Analysis
				PHOSPHATE-P
				TKN
				NITRATE-N BY IC
18609-3714	L042-04	12/05/00	WATER	VOLATILE ORGANICS BY GC/MS
				TPH GASOLINE
				TPH DIESEL
				SPECIFIC CONDUCTANCE
				SOLIDS TOTAL DISSOLVED
				SULFATE BY IC
				ALKALINITY
				PHOSPHATE-P
				TKN
				NITRATE-N BY IC

The results are summarized on the following pages.

Please feel free to call if you have any questions concerning these results.

Sincerely yours,

Kam Y. Pang, Ph.D.
Laboratory Director

EMAX LABORATORIES, INC., 630 Maple Ave., Torrance, CA 90503 TEL: (310) 618-8889 FAX: (310) 618-0818

METHOD M8015
TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

Client	: IT CORPORATION	Date Collected:	12/05/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	12/05/00
Batch No.	: 00L042	Date Extracted:	12/07/00 18:00
Sample ID:	18609-3712	Date Analyzed:	12/08/00 18:53
Lab Samp ID:	L042-02	Dilution Factor:	.97
Lab File ID:	TL02061A	Matrix :	WATER
Ext Btch ID:	DSL009W	% Moisture :	NA
Calib. Ref.:	TL02053A	Instrument ID :	GCT050

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
DIESEL	ND	.097	.065
JP5	ND	.49	.13

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
BROMOBENZENE	108	65-135
HEXACOSANE	100	60-145

QC LIMIT : (SOIL) 60-140 55-150
QC LIMIT : (WATER) 65-135 60-145
SURR1 : Bromobenzene
SURR2 : Hexacosane
RL : Reporting Limit

METHOD M8015
TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

Client	: IT CORPORATION	Date Collected:	12/05/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	12/05/00
Batch No.	: 00L042	Date Extracted:	12/07/00 18:00
Sample ID:	18609-3713	Date Analyzed:	12/08/00 19:41
Lab Samp ID:	L042-03	Dilution Factor:	.95
Lab File ID:	TL02062A	Matrix :	WATER
Ext Btch ID:	DSL009W	% Moisture :	NA
Calib. Ref.:	TL02053A	Instrument ID :	GCT050

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
DIESEL	ND	.095	.064
JP5	ND	.48	.12

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
BROMOBENZENE	106	65-135
HEXACOSANE	103	60-145

QC LIMIT : (SOIL) 60-140 55-150
QC LIMIT : (WATER) 65-135 60-145
SURR1 : Bromobenzene
SURR2 : Hexacosane
RL : Reporting Limit

METHOD M8015
TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

Client	: IT CORPORATION	Date Collected:	12/05/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	12/05/00
Batch No.	: 00L042	Date Extracted:	12/07/00 18:00
Sample ID:	18609-3714	Date Analyzed:	12/08/00 20:30
Lab Samp ID:	L042-04	Dilution Factor:	.95
Lab File ID:	TL02063A	Matrix :	WATER
Ext Btch ID:	DSL009W	% Moisture :	NA
Calib. Ref.:	TL02053A	Instrument ID :	GCT050

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
DIESEL	ND	.095	.064
JP5	ND	.48	.12

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
BROMOBENZENE	123	65-135
HEXACOSANE	107	60-145

QC LIMIT : (SOIL) 60-140 55-150
QC LIMIT : (WATER) 65-135 60-145
SURR1 : Bromobenzene
SURR2 : Hexacosane
RL : Reporting Limit

METHOD M8015

TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

ient	: IT CORPORATION	Date Collected:	NA
roject	: MCAS EL TORO/18609/D.O. 70	Date Received:	12/07/00
Batch No.	: 00L042	Date Extracted:	12/07/00 18:00
Sample ID:	MBLK1W	Date Analyzed:	12/08/00 14:49
Lab Samp ID:	DSL009WB	Dilution Factor:	1
Lab File ID:	TL02056A	Matrix :	WATER
Ext Btch ID:	DSL009W	% Moisture :	NA
Calib. Ref.:	TL02053A	Instrument ID :	GCT050

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
DIESEL	ND	.1	.067
JP5	ND	.5	.13

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
BROMOBENZENE	99	65-135
HEXACOSANE	100	60-145

QC LIMIT : (SOIL) 60-140 55-150

QC LIMIT : (WATER) 65-135 60-145

SURR1 : Bromobenzene

SURR2 : Hexacosane

RL : Reporting Limit

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
BATCH NO.: 00L042
METHOD: METHOD M8015

MATRIX:	WATER			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK1W				
LAB SAMP ID:	DSL009WB	DSL009WL	DSL009WC		
LAB FILE ID:	TL02056A	TL02057A	TL02058A		
DATE EXTRACTED:	12/07/0018:00	12/07/0018:00	12/07/0018:00	DATE COLLECTED:	NA
DATE ANALYZED:	12/08/0014:49	12/08/0015:38	12/08/0016:27	DATE RECEIVED:	12/07/00
PREP. BATCH:	DSL009W	DSL009W	DSL009W		
CALIB. REF:	TL02053A	TL02053A	TL02053A		

ACCESSION:

PARAMETER	BLNK RSLT (mg/L)	SPIKE AMT (mg/L)	BS RSLT (mg/L)	BS % REC	SPIKE AMT (mg/L)	BSD RSLT (mg/L)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
Diesel	ND	5	5.13	103	5	5.2	104	1	61-143	30

SURROGATE PARAMETER	SPIKE AMT (mg/L)	BS RSLT (mg/L)	BS % REC	SPIKE AMT (mg/L)	BSD RSLT (mg/L)	BSD % REC	QC LIMIT (%)
Bromobenzene	1	1.14	114	1	1.26	126	65-135
Hexacosane	.25	.268	107	.25	.277	111	60-145

METHOD 5030B/M8015
TOTAL PETROLEUM HYDROCARBONS BY PURGE & TRAP

Client : IT CORPORATION
Project : MCAS EL TORO/18609/D.O. 70
Batch No. : 00L042

Matrix : WATER
Instrument ID : GCT039

SAMPLE ID	EMAX SAMPLE ID	RESULTS (mg/L)	SURR (%)	DLF	MOIST	PRL (mg/L)	MDL (mg/L)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1W	VAL2239B	ND	83	1	NA	.1	.012	12/12/0012:13	12/12/0012:13	EL04080A	EL04077A	VAL2239	NA	12/12/00
LCS1W	VAL2239L	.623	103	1	NA	.1	.012	12/11/0021:24	12/11/0021:24	EL04055A	EL04053A	VAL2239	NA	12/11/00
LCD1W	VAL2239C	.589	104	1	NA	.1	.012	12/11/0021:58	12/11/0021:58	EL04056A	EL04053A	VAL2239	NA	12/11/00
18609-3711	L042-01	ND	87	1	NA	.1	.012	12/12/0003:40	12/12/0003:40	EL04066A	EL04065A	VAL2239	12/05/00	12/05/00
18609-3712	L042-02	ND	86	1	NA	.1	.012	12/12/0004:14	12/12/0004:14	EL04067A	EL04065A	VAL2239	12/05/00	12/05/00
18609-3713	L042-03	ND	86	1	NA	.1	.012	12/12/0004:49	12/12/0004:49	EL04068A	EL04065A	VAL2239	12/05/00	12/05/00
18609-3714	L042-04	ND	86	1	NA	.1	.012	12/12/0005:23	12/12/0005:23	EL04069A	EL04065A	VAL2239	12/05/00	12/05/00

SURR : Bromofluorobenzene (W)65-135 (S)60-140
PRL : Reporting Limit
E : Value exceed the upper level of the initial calibration
D : Value from dilution

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
BATCH NO.: 00L042
METHOD: METHOD 5030B/M8015

MATRIX:	WATER			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK1W				
LAB SAMP ID:	VAL2239B	VAL2239L	VAL2239C		
LAB FILE ID:	EL04080A	EL04055A	EL04056A		
DATE EXTRACTED:	12/12/0012:13	12/11/0021:24	12/11/0021:58	DATE COLLECTED:	NA
DATE ANALYZED:	12/12/0012:13	12/11/0021:24	12/11/0021:58	DATE RECEIVED:	12/11/00
PREP. BATCH:	VAL2239	VAL2239	VAL2239		
CALIB. REF:	EL04077A	EL04053A	EL04053A		

ACCESSION:

PARAMETER	BLNK RSLT (mg/L)	SPIKE AMT (mg/L)	BS RSLT (mg/L)	BS % REC	SPIKE AMT (mg/L)	BSD RSLT (mg/L)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
Gasoline	ND	.55	.623	113	.55	.589	107	6	67-136	30

SURROGATE PARAMETER	SPIKE AMT (mg/L)	BS RSLT (mg/L)	BS % REC	SPIKE AMT (mg/L)	BSD RSLT (mg/L)	BSD % REC	QC LIMIT (%)
Bromofluorobenzene	.02	.0207	103	.02	.0209	104	65-135

METHOD 5030A/8260A
VOLATILE ORGANICS BY GC/MS

Client	: IT CORPORATION	Date Collected:	12/05/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	12/05/00
Batch No.	: 00L042	Date Extracted:	12/07/00 14:57
Sample ID:	18609-3711	Date Analyzed:	12/07/00 14:57
Lab Samp ID:	L042-01	Dilution Factor:	1
Lab File ID:	RLP097	Matrix :	WATER
Ext Btch ID:	VOL0802	% Moisture :	NA
Calib. Ref.:	RLP093	Instrument ID :	T-002

PARAMETERS	RESULTS (ug/L)	PRL (ug/L)	MDL (ug/L)
1,1,1-TRICHLOROETHANE	ND	5	.91
1,1,2,2-TETRACHLOROETHANE	ND	5	1.1
1,1,2-TRICHLOROETHANE	ND	5	.83
1,1-DICHLOROETHANE	ND	5	.65
1,1-DICHLOROETHENE	ND	5	.86
1,2-DICHLOROETHANE	ND	5	.95
1,2-DICHLOROPROPANE	ND	5	.73
2-BUTANONE	ND	50	6.7
2-CHLOROETHYLVINYLETHER	ND	50	1.3
2-HEXANONE	ND	50	5.6
4-METHYL-2-PENTANONE	ND	50	3.6
ACETONE	ND	50	9.6
BENZENE	ND	5	.77
BROMODICHLOROMETHANE	ND	5	.82
BROMOFORM	ND	5	.74
BROMOMETHANE	ND	5	1.9
CARBON DISULFIDE	ND	5	.61
CARBON TETRACHLORIDE	ND	5	.83
CHLOROBENZENE	ND	5	1.1
CHLOROETHANE	ND	5	1.7
CHLOROFORM	ND	5	.67
CHLOROMETHANE	ND	5	.67
CIS-1,2-DICHLOROETHENE	ND	5	.79
CIS-1,3-DICHLOROPROPENE	ND	5	.79
DIBROMOCHLOROMETHANE	ND	5	.71
ETHYLBENZENE	ND	5	1
MTBE	ND	10	.77
METHYLENE CHLORIDE	ND	5	1.4
STYRENE	ND	5	.87
TETRACHLOROETHENE	ND	5	1.1
TOLUENE	ND	5	.99
TRANS-1,2-DICHLOROETHENE	ND	5	.73
TRANS-1,3-DICHLOROPROPENE	ND	5	.82
TRICHLOROETHENE	ND	5	.89
VINYL ACETATE	ND	50	1.4
VINYL CHLORIDE	ND	5	2.5
XYLENES	ND	5	3.1

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	85	62-139
BROMOFLUOROBENZENE	92	75-125
TOLUENE-D8	86	75-125

PRL: Project Reporting Limit
* : Out side of QC Limit
J : An estimated value between PRL and MDL
E : Value exceed the upper level of the initial calibration
B : Found in the associated blank
D : Value from dilution analysis

METHOD 5030A/8260A
VOLATILE ORGANICS BY GC/MS

Client	: IT CORPORATION	Date Collected:	12/05/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	12/05/00
Batch No.	: 00L042	Date Extracted:	12/07/00 15:32
Sample ID:	18609-3712	Date Analyzed:	12/07/00 15:32
Lab Samp ID:	L042-02	Dilution Factor:	1
Lab File ID:	RLP098	Matrix :	WATER
Ext Btch ID:	VOL0802	% Moisture :	NA
Calib. Ref.:	RLP093	Instrument ID :	T-002

PARAMETERS	RESULTS (ug/L)	PRL (ug/L)	MDL (ug/L)
1,1,1-TRICHLOROETHANE	ND	5	.91
1,1,2,2-TETRACHLOROETHANE	ND	5	1.1
1,1,2-TRICHLOROETHANE	ND	5	.83
1,1-DICHLOROETHANE	ND	5	.65
1,1-DICHLOROETHENE	ND	5	.86
1,2-DICHLOROETHANE	ND	5	.95
1,2-DICHLOROPROPANE	ND	5	.73
2-BUTANONE	ND	50	6.7
2-CHLOROETHYLVINYLETHER	ND	50	1.3
2-HEXANONE	ND	50	5.6
4-METHYL-2-PENTANONE	ND	50	3.6
ACETONE	19J	50	9.6
BENZENE	ND	5	.77
BROMODICHLOROMETHANE	ND	5	.82
BROMOFORM	ND	5	.74
BROMOMETHANE	ND	5	1.9
CARBON DISULFIDE	ND	5	.61
CARBON TETRACHLORIDE	ND	5	.83
CHLOROBENZENE	ND	5	1.1
CHLOROETHANE	ND	5	1.7
CHLOROFORM	ND	5	.67
CHLOROMETHANE	ND	5	.67
CIS-1,2-DICHLOROETHENE	ND	5	.79
CIS-1,3-DICHLOROPROPENE	ND	5	.79
DIBROMOCHLOROMETHANE	ND	5	.71
ETHYLBENZENE	ND	5	1
MTBE	ND	10	.77
METHYLENE CHLORIDE	ND	5	1.4
STYRENE	ND	5	.87
TETRACHLOROETHENE	ND	5	1.1
TOLUENE	ND	5	.99
TRANS-1,2-DICHLOROETHENE	ND	5	.73
TRANS-1,3-DICHLOROPROPENE	ND	5	.82
TRICHLOROETHENE	ND	5	.89
VINYL ACETATE	ND	50	1.4
VINYL CHLORIDE	ND	5	2.5
XYLENES	ND	5	3.1

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	96	62-139
BROMOFLUOROBENZENE	100	75-125
TOLUENE-D8	97	75-125

PRL: Project Reporting Limit
* : Out side of QC Limit
J : An estimated value between PRL and MDL
E : Value exceed the upper level of the initial calibration
B : Found in the associated blank
D : Value from dilution analysis

METHOD 5030A/8260A
VOLATILE ORGANICS BY GC/MS

Client	: IT CORPORATION	Date Collected:	12/05/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	12/05/00
Batch No.	: 00L042	Date Extracted:	12/07/00 16:07
Sample ID:	18609-3713	Date Analyzed:	12/07/00 16:07
Lab Samp ID:	L042-03	Dilution Factor:	1
Lab File ID:	RLP099	Matrix :	WATER
Ext Btch ID:	VOL0802	% Moisture :	NA
Calib. Ref.:	RLP093	Instrument ID :	T-002

PARAMETERS	RESULTS (ug/L)	PRL (ug/L)	MDL (ug/L)
1,1,1-TRICHLOROETHANE	ND	5	.91
1,1,2,2-TETRACHLOROETHANE	ND	5	1.1
1,1,2-TRICHLOROETHANE	ND	5	.83
1,1-DICHLOROETHANE	ND	5	.65
1,1-DICHLOROETHENE	ND	5	.86
1,2-DICHLOROETHANE	ND	5	.95
1,2-DICHLOROPROPANE	ND	5	.73
2-BUTANONE	ND	50	6.7
2-CHLOROETHYLVINYLETHER	ND	50	1.3
2-HEXANONE	ND	50	5.6
4-METHYL-2-PENTANONE	ND	50	3.6
ACETONE	ND	50	9.6
BENZENE	ND	5	.77
BROMODICHLOROMETHANE	ND	5	.82
BROMOFORM	ND	5	.74
BROMOMETHANE	ND	5	1.9
CARBON DISULFIDE	ND	5	.61
CARBON TETRACHLORIDE	ND	5	.83
CHLOROBENZENE	ND	5	1.1
CHLOROETHANE	ND	5	1.7
CHLOROFORM	ND	5	.67
CHLOROMETHANE	ND	5	.67
IS-1,2-DICHLOROETHENE	ND	5	.79
CIS-1,3-DICHLOROPROPENE	ND	5	.79
DIBROMOCHLOROMETHANE	ND	5	.71
ETHYLBENZENE	ND	5	1
MTBE	ND	10	.77
METHYLENE CHLORIDE	1.5J	5	1.4
STYRENE	ND	5	.87
TETRACHLOROETHENE	ND	5	1.1
TOLUENE	ND	5	.99
TRANS-1,2-DICHLOROETHENE	ND	5	.73
TRANS-1,3-DICHLOROPROPENE	ND	5	.82
TRICHLOROETHENE	ND	5	.89
VINYL ACETATE	ND	50	1.4
VINYL CHLORIDE	ND	5	2.5
XYLENES	ND	5	3.1

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	95	62-139
BROMOFLUOROBENZENE	100	75-125
TOLUENE-D8	95	75-125

PRL: Project Reporting Limit
* : Out side of QC Limit
J : An estimated value between PRL and MDL
E : Value exceed the upper level of the initial calibration
B : Found in the associated blank
D : Value from dilution analysis

METHOD 5030A/8260A
VOLATILE ORGANICS BY GC/MS

Client	: IT CORPORATION	Date Collected:	12/05/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	12/05/00
Batch No.	: 00L042	Date Extracted:	12/07/00 16:42
Sample ID:	18609-3714	Date Analyzed:	12/07/00 16:42
Lab Samp ID:	L042-04	Dilution Factor:	1
Lab File ID:	RLP100	Matrix :	WATER
Ext Btch ID:	VOL0802	% Moisture :	NA
Calib. Ref.:	RLP093	Instrument ID :	T-002

PARAMETERS	RESULTS (ug/L)	PRL (ug/L)	MDL (ug/L)
1,1,1-TRICHLOROETHANE	ND	5	.91
1,1,2,2-TETRACHLOROETHANE	ND	5	1.1
1,1,2-TRICHLOROETHANE	ND	5	.83
1,1-DICHLOROETHANE	ND	5	.65
1,1-DICHLOROETHENE	ND	5	.86
1,2-DICHLOROETHANE	ND	5	.95
1,2-DICHLOROPROPANE	ND	5	.73
2-BUTANONE	ND	50	6.7
2-CHLOROETHYLVINYLETHER	ND	50	1.3
2-HEXANONE	ND	50	5.6
4-METHYL-2-PENTANONE	ND	50	3.6
ACETONE	11J	50	9.6
BENZENE	ND	5	.77
BROMODICHLOROMETHANE	ND	5	.82
BROMOFORM	ND	5	.74
BROMOMETHANE	ND	5	1.9
CARBON DISULFIDE	ND	5	.61
CARBON TETRACHLORIDE	ND	5	.83
CHLOROBENZENE	ND	5	1.1
CHLOROETHANE	ND	5	1.7
CHLOROFORM	1.5J	5	.67
CHLOROMETHANE	ND	5	.67
CIS-1,2-DICHLOROETHENE	ND	5	.79
CIS-1,3-DICHLOROPROPENE	ND	5	.79
DIBROMOCHLOROMETHANE	1.5J	5	.71
ETHYLBENZENE	ND	5	1
MTBE	ND	10	.77
METHYLENE CHLORIDE	2.1J	5	1.4
STYRENE	ND	5	.87
TETRACHLOROETHENE	ND	5	1.1
TOLUENE	ND	5	.99
TRANS-1,2-DICHLOROETHENE	ND	5	.73
TRANS-1,3-DICHLOROPROPENE	ND	5	.82
TRICHLOROETHENE	ND	5	.89
VINYL ACETATE	ND	50	1.4
VINYL CHLORIDE	ND	5	2.5
XYLENES	ND	5	3.1

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	93	62-139
BROMOFLUOROBENZENE	101	75-125
TOLUENE-D8	95	75-125

PRL: Project Reporting Limit
* : Out side of QC Limit
J : An estimated value between PRL and MDL
E : Value exceed the upper level of the initial calibration
B : Found in the associated blank
D : Value from dilution analysis

METHOD 5030A/8260A
VOLATILE ORGANICS BY GC/MS

Client	: IT CORPORATION	Date Collected:	NA
oject	: MCAS EL TORO/18609/D.O. 70	Date Received:	12/07/00
tch No.	: 00L042	Date Extracted:	12/07/00 14:18
Sample ID:	MBLK1W	Date Analyzed:	12/07/00 14:18
Lab Samp ID:	VOL0802B	Dilution Factor:	1
Lab File ID:	RLP096	Matrix :	WATER
Ext Btch ID:	VOL0802	% Moisture :	NA
Calib. Ref.:	RLP093	Instrument ID :	T-002

PARAMETERS	RESULTS (ug/L)	PRL (ug/L)	MDL (ug/L)
1,1,1-TRICHLOROETHANE	ND	5	.91
1,1,2,2-TETRACHLOROETHANE	ND	5	1.1
1,1,2-TRICHLOROETHANE	ND	5	.83
1,1-DICHLOROETHANE	ND	5	.65
1,1-DICHLOROETHENE	ND	5	.86
1,2-DICHLOROETHANE	ND	5	.95
1,2-DICHLOROPROPANE	ND	5	.73
2-BUTANONE	ND	50	6.7
2-CHLOROETHYLVINYLETHER	ND	50	1.3
2-HEXANONE	ND	50	5.6
4-METHYL-2-PENTANONE	ND	50	3.6
ACETONE	ND	50	9.6
BENZENE	ND	5	.77
BROMODICHLOROMETHANE	ND	5	.82
BROMOFORM	ND	5	.74
BROMOMETHANE	ND	5	1.9
CARBON DISULFIDE	ND	5	.61
CARBON TETRACHLORIDE	ND	5	.83
CHLOROBENZENE	ND	5	1.1
CHLOROETHANE	ND	5	1.7
CHLOROFORM	ND	5	.67
CHLOROMETHANE	ND	5	.67
IS-1,2-DICHLOROETHENE	ND	5	.79
CIS-1,3-DICHLOROPROPENE	ND	5	.79
DIBROMOCHLOROMETHANE	ND	5	.71
ETHYLBENZENE	ND	5	1
MTBE	ND	10	.77
METHYLENE CHLORIDE	ND	5	1.4
STYRENE	ND	5	.87
TETRACHLOROETHENE	ND	5	1.1
TOLUENE	ND	5	.99
TRANS-1,2-DICHLOROETHENE	ND	5	.73
TRANS-1,3-DICHLOROPROPENE	ND	5	.82
TRICHLOROETHENE	ND	5	.89
VINYL ACETATE	ND	50	1.4
VINYL CHLORIDE	ND	5	2.5
XYLENES	ND	5	3.1

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	98	62-139
BROMOFLUOROBENZENE	103	75-125
TOLUENE-D8	100	75-125

PRL: Project Reporting Limit
* : Out side of QC Limit
J : An estimated value between PRL and MDL
E : Value exceed the upper level of the initial calibration
B : Found in the associated blank
D : Value from dilution analysis

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
BATCH NO.: 00L042
METHOD: METHOD 5030A/8260A

MATRIX:	WATER			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK1W				
LAB SAMP ID:	VOL0802B	VOL0802L	VOL0802C		
LAB FILE ID:	RLP096	RLP094	RLP095		
DATE EXTRACTED:	12/07/0014:18	12/07/0013:08	12/07/0013:43	DATE COLLECTED:	NA
DATE ANALYZED:	12/07/0014:18	12/07/0013:08	12/07/0013:43	DATE RECEIVED:	12/07/00
PREP. BATCH:	VOL0802	VOL0802	VOL0802		
CALIB. REF:	RLP093	RLP093	RLP093		

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
1,1-Dichloroethene	ND	20	20.4	102	20	19.6	98	4	75-125	20
Benzene	ND	20	20.9	104	20	20.5	103	2	75-125	20
Chlorobenzene	ND	20	20.8	104	20	20	100	4	75-125	20
Toluene	ND	20	20.3	102	20	20	100	1	74-125	20
Trichloroethene	ND	20	20.2	101	20	19.7	99	2	71-125	20

SURROGATE PARAMETER	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	QC LIMIT (%)
1,2-Dichlorethane-d4	50	49.6	99	50	49.7	100	62-139
Bromofluorobenzene	50	53.1	106	50	53.1	106	75-125
Toluene-d8	50	52.6	105	50	52.4	105	75-125

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
TCH NO.: 00L042
METHOD: METHOD 5030A/8260A

MATRIX:	WATER			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	18609-3713				
LAB SAMP ID:	L042-03	L042-03M	L042-03S		
LAB FILE ID:	RLP099	RLP109	RLP110		
DATE EXTRACTED:	12/07/0016:07	12/07/0021:54	12/07/0022:29	DATE COLLECTED:	12/05/00
DATE ANALYZED:	12/07/0016:07	12/07/0021:54	12/07/0022:29	DATE RECEIVED:	12/05/00
PREP. BATCH:	VOL0802	VOL0802	VOL0802		
CALIB. REF:	RLP093	RLP093	RLP093		

ACCESSION:

PARAMETER	SMPL RSLT (ug/L)	SPIKE AMT (ug/L)	MS RSLT (ug/L)	MS % REC	SPIKE AMT (ug/L)	MSD RSLT (ug/L)	MSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
1,1-Dichloroethene	ND	50	47	94	50	43.6	87	8	75-125	20
Benzene	ND	50	49.3	99	50	48.2	96	2	75-125	20
Chlorobenzene	ND	50	49.5	99	50	49.9	100	1	75-125	20
Toluene	ND	50	48.9	98	50	47.4	95	3	74-125	20
Trichloroethene	ND	50	47.7	95	50	45.6	91	5	71-125	20

SURROGATE PARAMETER	SPIKE AMT (ug/L)	MS RSLT (ug/L)	MS % REC	SPIKE AMT (ug/L)	MSD RSLT (ug/L)	MSD % REC	QC LIMIT (%)
1,2-Dichlorethane-d4	50	52.7	105	50	59.4	119	62-139
Bromofluorobenzene	50	50.3	101	50	49.6	99	75-125
Toluene-d8	50	47.7	95	50	46.2	92	75-125

* : Out side of QC Limit

METHOD 300.0
NITRATE/NITRITE-N

Client : IT CORPORATION
Project : MCAS EL TORO/18609/D.O. 70
Batch No. : 00L042

Matrix : WATER
Instrument ID : TI006

SAMPLE ID	EMAX SAMPLE ID	RESULTS (mg/L)	DLF	MOIST	RL (mg/L)	MDL (mg/L)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1W	ICL021WB	ND	1	NA	.1	.0206	12/11/0022:09	NA	AL11027A	AL11025A	ICL021W	NA	NA
LCS1W	ICL021WL	3.98	1	NA	.1	.0206	12/11/0022:26	NA	AL11028A	AL11025A	ICL021W	NA	NA
18609-3712	L042-02	5.09	10	NA	1	.206	12/11/0022:43	NA	AL11029A	AL11025A	ICL021W	12/05/00	12/05/00
18609-3713	L042-03	12.2	10	NA	1	.206	12/11/0023:00	NA	AL11030A	AL11025A	ICL021W	12/05/00	12/05/00
18609-3714	L042-04	2.63	10	NA	1	.206	12/11/0023:17	NA	AL11031A	AL11025A	ICL021W	12/05/00	12/05/00
18609-3714MS	L042-04M	20.6	10	NA	1	.206	12/11/0023:51	NA	AL11033A	AL11025A	ICL021W	12/05/00	12/05/00
18609-3714DUP	L042-04D	2.55	10	NA	1	.206	12/11/0023:34	NA	AL11032A	AL11025A	ICL021W	12/05/00	12/05/00

RL: Reporting Limit

METHOD 300.0
SULFATE

Client : IT CORPORATION
Project : MCAS EL TORO/18609/D.O. 70
Batch No. : 00L042

Matrix : WATER
Instrument ID : TI006

SAMPLE ID	EMAX SAMPLE ID	RESULTS (mg/L)	DLF	MOIST	RL (mg/L)	MDL (mg/L)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1W	ICL020WB	ND	1	NA	.5	.101	12/11/0015:20	NA	AL11003A	AL11001A	ICL020W	NA	NA
LCS1W	ICL020WL	20.2	1	NA	.5	.101	12/11/0015:37	NA	AL11004A	AL11001A	ICL020W	NA	NA
LCD1W	ICL020WC	20.4	1	NA	.5	.101	12/11/0015:54	NA	AL11005A	AL11001A	ICL020W	NA	NA
18609-3712	L042-02	86.7	25	NA	12.5	2.53	12/11/0020:09	NA	AL11020A	AL11013A	ICL020W	12/05/00	12/05/00
18609-3713	L042-03	137	25	NA	12.5	2.53	12/11/0020:26	NA	AL11021A	AL11013A	ICL020W	12/05/00	12/05/00
18609-3714	L042-04	11	1	NA	.5	.101	12/11/0018:44	NA	AL11015A	AL11013A	ICL020W	12/05/00	12/05/00
18609-3714MS	L042-04M	16.5	1	NA	.5	.101	12/11/0019:18	NA	AL11017A	AL11013A	ICL020W	12/05/00	12/05/00
18609-3714DUP	L042-04D	11	1	NA	.5	.101	12/11/0019:01	NA	AL11016A	AL11013A	ICL020W	12/05/00	12/05/00

RL : Reporting Limit

METHOD 300.0
ORTHOPHOSPHATE-P

Client : IT CORPORATION
Project : MCAS EL TORO/18609/D.O. 70
Batch No. : OOL042

Matrix : WATER
Instrument ID : TI006

SAMPLE ID	EMAX SAMPLE ID	RESULTS (mg/L)	DLF	MOIST	RL (mg/L)	MDL (mg/L)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1W	ICLO20WB	ND	1	NA	.5	.0322	12/11/0015:20	NA	AL11003A	AL11001A	ICLO20W	NA	NA
LCS1W	ICLO20WL	2.06	1	NA	.5	.0322	12/11/0015:37	NA	AL11004A	AL11001A	ICLO20W	NA	NA
LCD1W	ICLO20WC	2.06	1	NA	.5	.0322	12/11/0015:54	NA	AL11005A	AL11001A	ICLO20W	NA	NA
18609-3712	L042-02	.224J	1	NA	.5	.0322	12/11/0017:36	NA	AL11011A	AL11001A	ICLO20W	12/05/00	12/05/00
18609-3713	L042-03	ND	1	NA	.5	.0322	12/11/0017:53	NA	AL11012A	AL11001A	ICLO20W	12/05/00	12/05/00
18609-3714	L042-04	ND	1	NA	.5	.0322	12/11/0018:44	NA	AL11015A	AL11013A	ICLO20W	12/05/00	12/05/00
18609-3714MS	L042-04M	2.17	1	NA	.5	.0322	12/11/0019:18	NA	AL11017A	AL11013A	ICLO20W	12/05/00	12/05/00
18609-3714DUP	L042-04D	ND	1	NA	.5	.0322	12/11/0019:01	NA	AL11016A	AL11013A	ICLO20W	12/05/00	12/05/00

RL : Reporting Limit

EMAX QUALITY CONTROL DATA
LCS ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
BATCH NO.: 00L042
METHOD: METHOD 300.0

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MATRIX:	WATER		% MOISTURE:	NA
DILUTION FACTOR:	1	1		
SAMPLE ID:	MBLK1W			
LAB SAMP ID:	ICL021WB	ICL021WL		
LAB FILE ID:	AL11027A	AL11028A		
DATE EXTRACTED:	NA	NA	DATE COLLECTED:	NA
DATE ANALYZED:	12/11/0022:09	12/11/0022:26	DATE RECEIVED:	NA
PREP. BATCH:	ICL021W	ICL021W		
CALIB. REF:	AL11025A	AL11025A		

ACCESSION:

PARAMETER	BLNK RSLT (mg/L)	SPIKE AMT (mg/L)	BS RSLT (mg/L)	BS % REC	QC LIMIT (%)
Nitrate/Nitrite-N	ND	4	3.98	100	80-120

8007

EMAX QUALITY CONTROL DATA
MS ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
BATCH NO.: 00L042
METHOD: METHOD 300.0

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MATRIX:	WATER		% MOISTURE:	NA
DILUTION FACTOR:	10	10		
SAMPLE ID:	18609-3714			
LAB SAMP ID:	L042-04	L042-04M		
LAB FILE ID:	AL11031A	AL11033A		
DATE EXTRACTED:	NA	NA	DATE COLLECTED:	12/05/00
DATE ANALYZED:	12/11/0023:17	12/11/0023:51	DATE RECEIVED:	12/05/00
PREP. BATCH:	ICL021W	ICL021W		
CALIB. REF:	AL11025A	AL11025A		

ACCESSION:

PARAMETER	SMPL RSLT (mg/L)	SPIKE AMT (mg/L)	MS RSLT (mg/L)	MS % REC	QC LIMIT (%)
Nitrate/Nitrite-N	2.63	20	20.6	90	80-120

6008

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
BATCH NO.: 00L042
METHOD: METHOD 300.0

MATRIX:	WATER			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK1W				
LAB SAMP ID:	ICL020WB	ICL020WL	ICL020WC		
LAB FILE ID:	AL11003A	AL11004A	AL11005A		
DATE EXTRACTED:	NA	NA	NA	DATE COLLECTED:	NA
DATE ANALYZED:	12/11/0015:20	12/11/0015:37	12/11/0015:54	DATE RECEIVED:	NA
PREP. BATCH:	ICL020W	ICL020W	ICL020W		
CALIB. REF:	AL11001A	AL11001A	AL11001A		

ACCESSION:

PARAMETER	BLNK RSLT (mg/L)	SPIKE AMT (mg/L)	BS RSLT (mg/L)	BS % REC	SPIKE AMT (mg/L)	BSD RSLT (mg/L)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
Orthophosphate-P	ND	2	2.06	103	2	2.06	103	0	80-120	20

EMAX QUALITY CONTROL DATA
MS ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
BATCH NO.: 00L042
METHOD: METHOD 300.0

==========

MATRIX:	WATER		% MOISTURE:	NA
DILUTION FACTOR:	1	1		
SAMPLE ID:	18609-3714			
LAB SAMP ID:	L042-04	L042-04M		
LAB FILE ID:	AL11015A	AL11017A		
DATE EXTRACTED:	NA	NA	DATE COLLECTED:	12/05/00
DATE ANALYZED:	12/11/0018:44	12/11/0019:18	DATE RECEIVED:	12/05/00
PREP. BATCH:	ICL020W	ICL020W		
CALIB. REF:	AL11013A	AL11013A		

ACCESSION:

PARAMETER	SMPL RSLT (mg/L)	SPIKE AMT (mg/L)	MS RSLT (mg/L)	MS % REC	QC LIMIT (%)
Orthophosphate-P	ND	2	2.17	109	80-120

80011

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
BATCH NO.: 00L042
METHOD: METHOD 300.0

MATRIX:	WATER			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK1W				
LAB SAMP ID:	ICL020WB	ICL020WL	ICL020WC		
LAB FILE ID:	AL11003A	AL11004A	AL11005A		
DATE EXTRACTED:	NA	NA	NA	DATE COLLECTED:	NA
DATE ANALYZED:	12/11/0015:20	12/11/0015:37	12/11/0015:54	DATE RECEIVED:	NA
PREP. BATCH:	ICL020W	ICL020W	ICL020W		
CALIB. REF:	AL11001A	AL11001A	AL11001A		

ACCESSION:

PARAMETER	BLNK RSLT (mg/L)	SPIKE AMT (mg/L)	BS RSLT (mg/L)	BS % REC	SPIKE AMT (mg/L)	BSD RSLT (mg/L)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
Sulfate	ND	20	20.2	101	20	20.4	102	1	80-120	20

80013

EMAX QUALITY CONTROL DATA
MS ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
BATCH NO.: 00L042
METHOD: METHOD 300.0

==========

MATRIX:	WATER		% MOISTURE:	NA
DILUTION FACTOR:	1	1		
SAMPLE ID:	18609-3714			
LAB SAMP ID:	L042-04	L042-04M		
LAB FILE ID:	AL11015A	AL11017A		
DATE EXTRACTED:	NA	NA	DATE COLLECTED:	12/05/00
DATE ANALYZED:	12/11/0018:44	12/11/0019:18	DATE RECEIVED:	12/05/00
PREP. BATCH:	ICL020W	ICL020W		
CALIB. REF:	AL11013A	AL11013A		

ACCESSION:

PARAMETER	SMPL RSLT (mg/L)	SPIKE AMT (mg/L)	MS RSLT (mg/L)	MS % REC	QC LIMIT (%)
Sulfate	11	5	16.5	109	80-120

8015

METHOD 310.1
TOTAL ALKALINITY

Client : IT CORPORATION
Project : MCAS EL TORO/18609/D.O. 70
Batch No. : 00L042

Matrix : WATER
Instrument ID :

SAMPLE ID	EMAX SAMPLE ID	RESULTS (mg/L)	DLF	MOIST	RL (mg/L)	MDL (mg/L)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
18609-3712	L042-02	304	1	NA	5	.469	12/08/0010:30	NA	ALL002W-9	NA	ALL002W	12/05/00	12/05/00
18609-3713	L042-03	306	1	NA	5	.469	12/08/0010:45	NA	ALL002W-10	NA	ALL002W	12/05/00	12/05/00
18609-3714	L042-04	273	1	NA	5	.469	12/08/0011:00	NA	ALL002W-11	NA	ALL002W	12/05/00	12/05/00
MBLK1W	ALL002WB	ND	1	NA	5	.469	12/08/0008:30	NA	ALL002W-1	NA	ALL002W	NA	NA
LCS1W	ALL002WL	98.1	1	NA	5	.469	12/08/0008:45	NA	ALL002W-2	NA	ALL002W	NA	NA
LCD1W	ALL002WC	98.1	1	NA	5	.469	12/08/0009:00	NA	ALL002W-3	NA	ALL002W	NA	NA

RL: Reporting Limit

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
METHOD: METHOD 310.1
MATRIX: WATER
% MOISTURE: NA

BATCH NO.: 00L042
SAMPLE ID: LCS1W/LCD1W
CONTROL NO.: ALL002WL/C

DATE RECEIVED: NA
DATE EXTRACTED: NA
DATE ANALYZED: 12/08/00 08:45/09:00

ACCESSION:

PARAMETER	BLNK RSLT (mg/L)	SPIKE AMT (mg/L)	BS RSLT (mg/L)	BS % REC	SPIKE AMT (mg/L)	BSD RSLT (mg/L)	BSD % REC	RPD %	QC LIMIT %	RPD LIMIT %
Alkalinity	ND	101	98.1	97	101	98.1	97	0	80-120	20

8036

EMAX QUALITY CONTROL DATA
MS ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
METHOD: METHOD 310.1
MATRIX: WATER
% MOISTURE: NA

BATCH NO.: 00L042
SAMPLE ID: 18609-3704MS
CONTROL NO.: L011-02M

DATE RECEIVED: 12/01/00
DATE EXTRACTED: NA
DATE ANALYZED: 12/08/00 09:45

ACCESSION:

PARAMETER	SMPL RSLT (mg/L)	SPIKE AMT (mg/L)	MS RSLT (mg/L)	MS % REC	QC LIMIT (%)
Alkalinity	311	58.5	374	108	80-120

8037

METHOD 160.1
TOTAL DISSOLVED SOLIDS

Client : IT CORPORATION
Project : MCAS EL TORO/18609/D.O. 70
Batch No. : 00L042

Matrix : WATER
Instrument ID : NA

SAMPLE ID	EMAX SAMPLE ID	RESULTS (mg/L)	DLF	MOIST	RL (mg/L)	MDL (mg/L)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1W	DSL007WB	ND	1	NA	10	4.33	12/09/0020:00	NA	DSL007W-01	NA	DSL007W	NA	NA
LCS1W	DSL007WL	295	1	NA	10	4.33	12/09/0020:01	NA	DSL007W-02	NA	DSL007W	NA	NA
LCD1W	DSL007WC	300	1	NA	10	4.33	12/09/0020:02	NA	DSL007W-03	NA	DSL007W	NA	NA
18609-3712	L042-02	600	1	NA	10	4.33	12/09/0020:03	NA	DSL007W-04	NA	DSL007W	12/05/00	12/05/00
18609-3713	L042-03	715	1	NA	10	4.33	12/09/0020:04	NA	DSL007W-05	NA	DSL007W	12/05/00	12/05/00
18609-3714	L042-04	700	1	NA	10	4.33	12/09/0020:16	NA	DSL007W-17	NA	DSL007W	12/05/00	12/05/00

RL : Reporting Limit

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

LIENT: IT CORPORATION
ROJECT: MCAS EL TORO/18609/D.O. 70
ETHOD: METHOD 160.1
ATRIX: WATER
MOISTURE: NA

ATCH NO.: 00L042
AMPLE ID: LCS1W/LCD1W
ONTROL NO.: DSL007WL/C

DATE RECEIVED: NA
DATE EXTRACTED: NA
DATE ANALYZED: 12/09/00 20:01/20:02

CCESSION:

'ARAMETER	BLNK RSLT (mg/L)	SPIKE AMT (mg/L)	BS RSLT (mg/L)	BS % REC	SPIKE AMT (mg/L)	BSD RSLT (mg/L)	BSD % REC	RPD %	QC LIMIT %	RPD LIMIT %
'DS	ND	300	295	98	300	300	100	2	80-120	20

8042

METHOD 351.3
TKN

Client : IT CORPORATION
Project : MCAS EL TORO/18609/D.O. 70
Batch No. : 00L042

Matrix : WATER
Instrument ID :

SAMPLE ID	EMAX SAMPLE ID	RESULTS (mg/L)	DLF	MOIST	RL (mg/L)	MDL (mg/L)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
18609-3712	L042-02	ND	1	NA	1	.0255	12/12/0015:53	12/11/0020:15	KNL003W-14	KNL003W-9	KNL003W	12/05/00	12/05/00
18609-3712MS	L042-02M	.680J	1	NA	1	.0255	12/12/0015:54	12/11/0020:15	KNL003W-15	KNL003W-9	KNL003W	12/05/00	12/05/00
18609-3712MSD	L042-02S	.668J	1	NA	1	.0255	12/12/0015:55	12/11/0020:15	KNL003W-16	KNL003W-9	KNL003W	12/05/00	12/05/00
18609-3713	L042-03	ND	1	NA	1	.0255	12/12/0015:56	12/11/0020:15	KNL003W-17	KNL003W-9	KNL003W	12/05/00	12/05/00
18609-3714	L042-04	ND	1	NA	1	.0255	12/12/0015:58	12/11/0020:15	KNL003W-18	KNL003W-9	KNL003W	12/05/00	12/05/00
MBLK1W	KNL003WB	ND	1	NA	1	.0255	12/12/0015:51	12/11/0020:15	KNL003W-11	KNL003W-9	KNL003W	NA	12/11/00
LCS1W	KNL003WL	3.15	1	NA	1	.0255	12/12/0015:52	12/11/0020:15	KNL003W-12	KNL003W-9	KNL003W	NA	12/11/00
LCD1W	KNL003WC	3.09	1	NA	1	.0255	12/12/0015:53	12/11/0020:15	KNL003W-13	KNL003W-9	KNL003W	NA	12/11/00

RL : Reporting Limit

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

:LIENT: IT CORPORATION
'ROJECT: MCAS EL TORO/18609/D.O. 70
1ETHOD: METHOD 351.3
1ATRIX: WATER
% MOISTURE: NA

3ATCH NO.: 00L042
SAMPLE ID: LCS1W/LCD1W
:ONTROL NO.: KNL003WL/C

DATE RECEIVED: 12/11/00
DATE EXTRACTED: 12/11/00 20:15
DATE ANALYZED: 12/12/00 15:52/15:53

ACCESSION:

PARAMETER	BLNK RSLT (mg/L)	SPIKE AMT (mg/L)	BS RSLT (mg/L)	BS % REC	SPIKE AMT (mg/L)	BSD RSLT (mg/L)	BSD % REC	RPD %	QC LIMIT %	RPD LIMIT %
TKN	ND	2.96	3.15	106	2.96	3.09	104	2	80-120	20

8046

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

LIENT: IT CORPORATION
ROJECT: MCAS EL TORO/18609/D.O. 70
ETHOD: METHOD 351.3
ATRIX: WATER
MOISTURE: NA

ATCH NO.: 00L042
AMPLE ID: 18609-3712MS/MSD
ONTROL NO.: L042-02M/S

CCESSION:

DATE RECEIVED: 12/05/00
DATE EXTRACTED: 12/11/00 20:15
DATE ANALYZED: 12/12/00 15:54/15:55

PARAMETER	SMPL RSLT (mg/L)	SPIKE AMT (mg/L)	MS RSLT (mg/L)	MS % REC	SPIKE AMT (mg/L)	MSD RSLT (mg/L)	MSD % REC	RPD %	QC LIMIT %	RPD LIMIT %
KN	ND	.60	.68	113	.60	.668	111	2	80-120	20

8047

METHOD 120.1
SPECIFIC CONDUCTIVITY

Client : IT CORPORATION
Project : MCAS EL TORO/18609/D.O. 70
Batch No. : 00L042

Matrix : WATER
Instrument ID : I34

SAMPLE ID	EMAX SAMPLE ID	RESULTS (umhos/cm)	DLF	MOIST	RL (umhos/cm)	MDL (umhos/cm)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
LCS1W	ECL002WL	399	1	NA	1	.197	12/07/0018:42	NA	ECL002W-1	NA	ECL002W	NA	NA
LCD1W	ECL002WC	408	1	NA	1	.197	12/07/0018:44	NA	ECL002W-2	NA	ECL002W	NA	NA
18609-3712	L042-02	1090	1	NA	1	.197	12/07/0018:50	NA	ECL002W-5	NA	ECL002W	12/05/00	12/05/00
18609-3713	L042-03	1140	1	NA	1	.197	12/07/0018:52	NA	ECL002W-6	NA	ECL002W	12/05/00	12/05/00
18609-3714	L042-04	66.4	1	NA	1	.197	12/07/0018:54	NA	ECL002W-7	NA	ECL002W	12/05/00	12/05/00
18609-3714DUP	L042-04D	66.4	1	NA	1	.197	12/07/0018:56	NA	ECL002W-8	NA	ECL002W	12/05/00	12/05/00

RL: Reporting Limit

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

:LIENT: IT CORPORATION
'ROJECT: MCAS EL TORO/18609/D.O. 70
IETHOD: METHOD 120.1
IATRIX: WATER
% MOISTURE: NA

BATCH NO.: 00L042
SAMPLE ID: LCS1W/LCD1W
CONTROL NO.: ECL002WL/C

DATE RECEIVED: NA
DATE EXTRACTED: NA
DATE ANALYZED: 12/07/00 18:42/18:43

ACCESSION:

PARAMETER	BLNK RSLT (umhos/cm)	SPIKE AMT (umhos/cm)	BS RSLT (umhos/cm)	BS % REC	SPIKE AMT (umhos/cm)	BSD RSLT (umhos/cm)	BSD % REC	RPD %	QC LIMIT %	RPD LIMIT %
Specific Conductivity	ND	409	399	98	409	408	100	2	80-120	20

8034

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: MCAS El Toro

Collection Date: December 5, 2000

LDC Report Date: January 4, 2001

Matrix: Water

Parameters: Total Petroleum Hydrocarbons as Extractables

Validation Level: NFESC Level C

Laboratory: EMAX Laboratories, Inc.

Sample Delivery Group (SDG): 00L042

Sample Identification

18609-3712
18609-3713
18609-3714

Introduction

This data review covers 3 water samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8015 modified for Total Petroleum Hydrocarbons (TPH) as Extractables.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (October 1999) as there are no current guidelines for the method stated above.

A table summarizing all data qualification is provided at the end of this report. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Blank results are summarized in Section III.

Field duplicates are summarized in Section IX.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Calibration

a. Initial Calibration

Initial calibration of compounds was performed as required by the method.

The percent relative standard deviations (%RSD) of calibration factors for compounds were less than or equal to 20.0% .

b. Calibration Verification

Calibration verification was performed at required frequencies. The percent differences (%D) of amounts in continuing standard mixtures were within the 15.0% QC limits.

III. Blanks

Method blanks were reviewed for each matrix as applicable. No total petroleum hydrocarbons as extractable contaminants were found in the method blanks.

IV. Accuracy and Precision Data

a. Surrogate Recovery

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

b. Matrix Spike/Matrix Spike Duplicates

The laboratory has indicated that there were no matrix spike (MS) and matrix spike duplicate (MSD) analyses specified for the samples in this SDG, and therefore matrix spike and matrix spike duplicate analyses were not performed for this SDG.

c. Laboratory Control Samples

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

V. Target Compound Identification

Raw data were not reviewed for this SDG.

VI. Compound Quantitation and CRQLs

Raw data were not reviewed for this SDG.

VII. System Performance

Raw data were not reviewed for this SDG.

VIII. Overall Assessment of Data

Data flags have been summarized at the end of this report.

IX. Field Duplicates

No field duplicates were identified in this SDG.

X. Field Blanks

No field blanks were identified in this SDG.

MCAS El Toro
Total Petroleum Hydrocarbons as Extractables - Data Qualification Summary - SDG 00L042

No Sample Data Qualified in this SDG

MCAS El Toro
Total Petroleum Hydrocarbons as Extractables - Laboratory Blank Data Qualification Summary - SDG 00L042

No Sample Data Qualified in this SDG

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: MCAS El Toro

Collection Date: December 5, 2000

LDC Report Date: January 4, 2001

Matrix: Water

Parameters: Total Petroleum Hydrocarbons as Gasoline

Validation Level: NFESC Level C

Laboratory: EMAX Laboratories, Inc.

Sample Delivery Group (SDG): 00L042

Sample Identification

18609-3711
18609-3712
18609-3713
18609-3714

Introduction

This data review covers 4 water samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8015 modified for Total Petroleum Hydrocarbons (TPH) as Gasoline.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (October 1999) as there are no current guidelines for the method stated above.

A table summarizing all data qualification is provided at the end of this report. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Blank results are summarized in Section III.

Field duplicates are summarized in Section IX.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Calibration

a. Initial Calibration

Initial calibration of compounds was performed as required by the method.

The percent relative standard deviations (%RSD) of calibration factors for compounds were less than or equal to 20.0% .

b. Calibration Verification

Calibration verification was performed at required frequencies. The percent differences (%D) of amounts in continuing standard mixtures were within the 15.0% QC limits.

III. Blanks

Method blanks were reviewed for each matrix as applicable. No total petroleum hydrocarbons as gasoline contaminants were found in the method blanks.

IV. Accuracy and Precision Data

a. Surrogate Recovery

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

b. Matrix Spike/Matrix Spike Duplicates

The laboratory has indicated that there were no matrix spike (MS) and matrix spike duplicate (MSD) analyses specified for the samples in this SDG, and therefore matrix spike and matrix spike duplicate analyses were not performed for this SDG.

c. Laboratory Control Samples

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

V. Target Compound Identification

Raw data were not reviewed for this SDG.

VI. Compound Quantitation and CRQLs

Raw data were not reviewed for this SDG.

VII. System Performance

Raw data were not reviewed for this SDG.

VIII. Overall Assessment of Data

Data flags have been summarized at the end of this report.

IX. Field Duplicates

No field duplicates were identified in this SDG.

X. Field Blanks

Sample 18609-3711 was identified as a trip blank. No total petroleum hydrocarbons as gasoline contaminants were found in this blank.

MCAS El Toro
Total Petroleum Hydrocarbons as Gasoline - Data Qualification Summary - SDG 00L042

No Sample Data Qualified in this SDG

MCAS El Toro
Total Petroleum Hydrocarbons as Gasoline - Laboratory Blank Data Qualification Summary - SDG 00L042

No Sample Data Qualified in this SDG

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: MCAS El Toro

Collection Date: December 5, 2000

LDC Report Date: December 29, 2000

Matrix: Water

Parameters: Volatiles

Validation Level: NFESC Level C

Laboratory: EMAX Laboratories, Inc.

Sample Delivery Group (SDG): 00L042

Sample Identification

18609-3711
18609-3712
18609-3713
18609-3714
18609-3713MS
18609-3713MSD

Introduction

This data review covers 6 water samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8260A for Volatiles.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (October 1999) as there are no current guidelines for the method stated above.

A table summarizing all data qualification is provided at the end of this report. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Blank results are summarized in Section V.

Field duplicates are summarized in Section XVI.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. GC/MS Instrument Performance Check

Instrument performance was checked at 12 hour intervals.

All ion abundance requirements were met.

III. Initial Calibration

Initial calibration was performed using required standard concentrations.

Percent relative standard deviations (%RSD) were less than or equal to 30.0% for all calibration check compounds and less than or equal to 50.0% for all other compounds.

Average relative response factors (RRF) for all volatile target compounds and system performance check compounds (SPCCs) were within method and validation criteria with the following exceptions:

Date	Compound	RRF (Limits)	Associated Samples	Flag	A or P
11/17/00	Acetone	0.04427 (≥0.05)	All samples in SDG 00L042	J (all detects) R (all non-detects)	A

IV. Continuing Calibration

Continuing calibration was performed at the required frequencies.

All of the continuing calibration percent differences (%D) between the initial calibration RRF and the continuing calibration RRF were less than or equal to 25.0% for all calibration check compounds and less than or equal to 50.0% for all other compounds.

All of the continuing calibration RRF values were within method and validation criteria with the following exceptions:

Date	Compound	RRF (Limits)	Associated Samples	Flag	A or P
12/7/00	Acetone	0.04122 (≥0.05)	All samples in SDG 00L042	J (all detects) R (all non-detects)	A

V. Blanks

Method blanks were reviewed for each matrix as applicable. No volatile contaminants were found in the method blanks.

VI. Surrogate Spikes

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

VII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

IX. Regional Quality Assurance and Quality Control

Not applicable.

X. Internal Standards

All internal standard areas and retention times were within QC limits.

XI. Target Compound Identifications

Raw data were not reviewed for this SDG.

XII. Compound Quantitation and CRQLs

Raw data were not reviewed for this SDG.

XIII. Tentatively Identified Compounds (TICs)

Raw data were not reviewed for this SDG.

XIV. System Performance

Raw data were not reviewed for this SDG.

XV. Overall Assessment of Data

Data flags have been summarized at the end of the report.

XVI. Field Duplicates

No field duplicates were identified in this SDG.

XVII. Field Blanks

Sample 18609-3711 was identified as a trip blank. No volatile contaminants were found in this blank.

MCAS El Toro
Volatiles - Data Qualification Summary - SDG 00L042

SDG	Sample	Compound	Flag	A or P	Reason
00L042	18609-3711 18609-3712 18609-3713 18609-3714	Acetone	J (all detects) R (all non-detects)	A	Initial calibration (RRF)
00L042	18609-3711 18609-3712 18609-3713 18609-3714	Acetone	J (all detects) R (all non-detects)	A	Continuing calibration (RRF)

MCAS El Toro
Volatiles - Laboratory Blank Data Qualification Summary - SDG 00L042

No Sample Data Qualified in this SDG

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: MCAS El Toro

Collection Date: December 5, 2000

LDC Report Date: January 2, 2001

Matrix: Water

Parameters: Wet Chemistry

Validation Level: NFESC Level C

Laboratory: EMAX Laboratories, Inc.

Sample Delivery Group (SDG): 00L042

Sample Identification

18609-3712
18609-3713
18609-3714
18609-3712MS
18609-3712MSD
18609-3714MS
18609-3714DUP

Introduction

This data review covers 7 water samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA Method 120.1 for Conductivity, EPA Method 160.1 for Total Dissolved Solids, EPA Method 300.0 for Nitrate/Nitrite as Nitrogen, Sulfate, and Orthophosphate, EPA Method 310.1 for Alkalinity, and EPA Method 351.3 for Total Kjeldahl Nitrogen.

The review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review (February 1994) as there are no current guidelines for the methods stated above.

A table summarizing all data qualification is provided at the end of this report. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Blank results are summarized in Section III.

Field duplicates are summarized in Section VII.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met with the following exceptions:

Sample	Analyte	Total Time From Sample Collection Until Analysis	Required Holding Time From Sample Collection Until Analysis	Flag	A or P
18609-3712 18609-3713 18609-3714 18609-3714MS 18609-3714DUP	Orthophosphate	6 days	48 hours	J (all detects) R (all non-detects)	P

Non-detected sample concentrations were qualified as unusable (R) due to a gross exceedance (>2X) of holding time.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Calibration

a. Initial Calibration

All criteria for the initial calibration of each method were met with the following exceptions:

Sample	Analyte	Finding	Criteria	Flag	A or P
All samples in SDG 00L042	Sulfate Nitrate/Nitrite as N Orthophosphate Total kjeldahl nitrogen	A blank was not used to establish the calibration curve.	A blank must be used to establish the calibration curve.	None None None None	P

b. Calibration Verification

Calibration verification frequency and analysis criteria were met for each method when applicable.

III. Blanks

Method blanks were reviewed for each matrix as applicable. No contaminant concentrations were found in the method blanks.

IV. Accuracy and Precision Data

a. Matrix Spike/(Matrix Spike) Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

Duplicate (DUP) sample analyses were reviewed for each matrix as applicable. Relative percent differences (RPD) were within QC limits.

b. Laboratory Control Samples

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

V. Sample Result Verification

Raw data were not reviewed for this SDG.

VI. Overall Assessment of Data

Data flags are summarized at the end of this report.

VII. Field Duplicates

No field duplicates were identified in this SDG.

VIII. Field Blanks

No field blanks were identified in this SDG.

MCAS El Toro
Wet Chemistry - Data Qualification Summary - SDG 00L042

SDG	Sample	Analyte	Flag	A or P	Reason
00L042	18609-3712 18609-3713 18609-3714	Orthophosphate	J (all detects) R (all non-detects)	P	Technical holding times
00L042	18609-3712 18609-3713 18609-3714	Nitrate/Nitrite as N Sulfate Orthophosphate Total kjeldahl nitrogen	None None None None	P	Initial calibration

MCAS El Toro
Wet Chemistry - Laboratory Blank Data Qualification Summary - SDG 00L042

No Sample Data Qualified in this SDG

the IT group

IT Corporation
2790 Mosside Blvd.
Monroeville, PA 15146-2792
(412)372-7701

CHAIN-OF-CUSTODY RECORD

PROJECT DATA MANAGER'S COPY

A 12398

FORM 0019 REV. 9-99

TF 398 - GW - Semi Annual

IT'S LAB COORDINATOR: M. Gonzalez	LAB COORDINATOR'S PHONE: 949-660-7550	LAB COORDINATOR'S FAX: 949-475-5433	LABORATORY SERVICE ID: 00L060	LABORATORY CONTACT: EMAX	MAIL REPORT (COMPANY NAME): IT Group
PROJECT NAME: TF398 GW	PROJECT LOCATION: MCAS El Toro, CA	PROJECT NUMBER: 18609	LABORATORY PHONE: 310-618-8889	LABORATORY FAX: 310-618-0818	RECIPIENT NAME: Dwayne Ishida
PROJECT CONTACT: M. Gonzalez	PROJECT PHONE NUMBER: 949-451-1666	PROJECT FAX: 949-451-1672	LABORATORY ADDRESS: 630 Maple Ave.		ADDRESS: 3347 Michelson #200
PROJECT ADDRESS: Bldg. 311, MCAS El Toro	CITY, STATE AND ZIP CODE: Santa Ana, CA 92708	CLIENT: SWDIV	CITY, STATE AND ZIP CODE: Torrance, CA ~~926~~ 90503 E.S.		CITY, STATE AND ZIP CODE: Irvine, CA 92612
PROJECT MANAGER: D. Rawal	PROJECT MANAGER'S PHONE: 949-660-7576	PROJECT MANAGER'S FAX: 949-474-8309			

Item	Sample Identifier	Matrix	2000 Date	Time	Preserved	# of Cont.	QC Level	T.A.T.	Analyses: 8260	TPH-gas	TPH-Diesel	TPH-JP5	Spec. Cond.	TDS, SO4, Alk	PO4	TKN, NO3	Comments
1	18609-3715	W	12/6	0730	4°C	3	3	5 day	X	X							
2	18609-3716	W	↓	1000	↓	10	↓	↓	X	X	X	X	X	X	X	X	
3	18609-3717	↓	↓	1230	↓	11	↓	↓	X	X	X	X	X	X	X	X	
4	18609-3718	↓	↓	1330	↓	10	↓	↓	X	X	X	X	X	X	X	X	Hold until further notice
5																	
6																	
7																	
8																	
9																	
10																	

W.J. 12/6/00

SAMPLES COLLECTED BY: W. J. Herson

COURIER AND AIR BILL NUMBER: Courier

COOLER TEMPERATURE UPON RECEIPT:

RELINQUISHED BY	RECEIVED BY	DATE	TIME	SAMPLE'S CONDITION UPON RECEIPT
Wey-Lynn Jeffers	[signature]	12.6.00	3:00	

Distribution: White - Laboratory (To be returned with Analytical Report); Goldenrod - Project File; Manilla - Project Data Manager

Project Information Section For Project Personnel Only Do Not Submit to Laboratory

TF398 - (Semi Annual)

Sample Point Location	Sample Type: G	C	F	QC
① Trip Blank	X			X
② 398-MW-21	X			
③ 598-MW-01	X			
④ Equipment Rinsate Pump #2	X			X

Comments

ave 12/14/00 rec'd 12/14/00

Sample Type: G - Grab, C - Composite, F - Field Sample, QC - Quality Control Sample

6305

EMAX
LABORATORIES, INC.
630 Maple Ave.
Torrance, CA 90503
Telephone: (310) 618-8889
Fax: (310) 618-0818

Date: 12-18-2000
EMAX Batch No.: 00L060

Attn: Dwayne Ishida

IT Corporation
3347 Michelson Dr. # 200
Irvine CA 92612

Subject: Laboratory Report
Project: MCAS El Toro/18609/D.O. 70

Enclosed is the Laboratory report for samples received on 12/06/00. The data reported include :

Sample ID	Control #	Col Date	Matrix	Analysis
18609-3715	L060-01	12/06/00	WATER	VOLATILE ORGANICS BY GC/MS
				TPH GASOLINE
18609-3716	L060-02	12/06/00	WATER	VOLATILE ORGANICS BY GC/MS
				TPH GASOLINE
				TPH DIESEL
				SPECIFIC CONDUCTANCE
				SOLIDS TOTAL DISSOLVED
				SULFATE BY IC
				ALKALINITY
				PHOSPHATE-P
				TKN
				NITRATE-N BY IC
18609-3717	L060-03	12/06/00	WATER	VOLATILE ORGANICS BY GC/MS
				TPH GASOLINE
				TPH DIESEL
				SPECIFIC CONDUCTANCE
				SOLIDS TOTAL DISSOLVED
				SULFATE BY IC
				ALKALINITY
				PHOSPHATE-P
				TKN
				NITRATE-N BY IC
18609-3718	L060-04	12/06/00	WATER	HOLD

The results are summarized on the following pages.

Please feel free to call if you have any questions concerning these results.

Sincerely yours,

Kam Y. Pang, Ph.D.
Laboratory Director

METHOD M8015
TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

Client	: IT CORPORATION	Date Collected:	12/06/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	12/06/00
Batch No.	: 00L060	Date Extracted:	12/10/00 09:00
Sample ID:	18609-3716	Date Analyzed:	12/12/00 06:22
Lab Samp ID:	L060-02	Dilution Factor:	.94
Lab File ID:	TL03026A	Matrix :	WATER
Ext Btch ID:	DSL016W	% Moisture :	NA
Calib. Ref.:	TL03021A	Instrument ID :	GCT050

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
DIESEL	ND	.094	.063
JP5	ND	.47	.12

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
BROMOBENZENE	101	65-135
HEXACOSANE	74	60-145

QC LIMIT : (SOIL) 60-140 55-150
QC LIMIT : (WATER) 65-135 60-145
SURR1 : Bromobenzene
SURR2 : Hexacosane
RL : Reporting Limit

METHOD M8015
TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

Client	: IT CORPORATION	Date Collected:	12/06/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	12/06/00
Batch No.	: 00L060	Date Extracted:	12/10/00 09:00
Sample ID:	18609-3717	Date Analyzed:	12/12/00 07:11
Lab Samp ID:	L060-03	Dilution Factor:	.94
Lab File ID:	TL03027A	Matrix :	WATER
Ext Btch ID:	DSL016W	% Moisture :	NA
Calib. Ref.:	TL03021A	Instrument ID :	GCT050

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
DIESEL	ND	.094	.063
JP5	1.0**	.47	.12

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
BROMOBENZENE	106	65-135
HEXACOSANE	76	60-145

QC LIMIT : (SOIL) 60-140 55-150
QC LIMIT : (WATER) 65-135 60-145
SURR1 : Bromobenzene
SURR2 : Hexacosane
RL : Reporting Limit
** : Presence of non-typical JP5 like pattern, quantitated as JP5.

METHOD M8015
TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

ient	: IT CORPORATION	Date Collected:	NA
roject	: MCAS EL TORO/18609/D.O. 70	Date Received:	12/10/00
Batch No.	: 00L060	Date Extracted:	12/10/00 09:00
Sample ID:	MBLK1W	Date Analyzed:	12/12/00 03:56
Lab Samp ID:	DSL016WB	Dilution Factor:	1
Lab File ID:	TL03023A	Matrix :	WATER
Ext Btch ID:	DSL016W	% Moisture :	NA
Calib. Ref.:	TL03021A	Instrument ID :	GCT050

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
DIESEL	ND	.1	.067
JP5	ND	.5	.13

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
BROMOBENZENE	92	65-135
HEXACOSANE	77	60-145

QC LIMIT : (SOIL) 60-140 55-150
QC LIMIT : (WATER) 65-135 60-145
SURR1 : Bromobenzene
SURR2 : Hexacosane
RL : Reporting Limit

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
BATCH NO.: 00L060
METHOD: METHOD M8015

MATRIX:	WATER			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK1W				
LAB SAMP ID:	DSL016WB	DSL016WL	DSL016WC		
LAB FILE ID:	TL03023A	TL03024A	TL03025A		
DATE EXTRACTED:	12/10/0009:00	12/10/0009:00	12/10/0009:00	DATE COLLECTED:	NA
DATE ANALYZED:	12/12/0003:56	12/12/0004:45	12/12/0005:33	DATE RECEIVED:	12/10/00
PREP. BATCH:	DSL016W	DSL016W	DSL016W		
CALIB. REF:	TL03021A	TL03021A	TL03021A		

ACCESSION:

PARAMETER	BLNK RSLT (mg/L)	SPIKE AMT (mg/L)	BS RSLT (mg/L)	BS % REC	SPIKE AMT (mg/L)	BSD RSLT (mg/L)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
Diesel	ND	5	4.99	100	5	4.87	97	2	61-143	30

SURROGATE PARAMETER	SPIKE AMT (mg/L)	BS RSLT (mg/L)	BS % REC	SPIKE AMT (mg/L)	BSD RSLT (mg/L)	BSD % REC	QC LIMIT (%)
Bromobenzene	1	.963	96	1	1.03	103	65-135
Hexacosane	.25	.194	78	.25	.2	80	60-145

METHOD 5030B/M8015
TOTAL PETROLEUM HYDROCARBONS BY PURGE & TRAP

Client : IT CORPORATION
Project : MCAS EL TORO/18609/D.O. 70
Batch No. : 00L060

Matrix : WATER
Instrument ID : GCT039

SAMPLE ID	EMAX SAMPLE ID	RESULTS (mg/L)	SURR (%)	DLF	MOIST	PRL (mg/L)	MDL (mg/L)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1W	VAL2239B	ND	83	1	NA	.1	.012	12/12/0012:13	12/12/0012:13	EL04080A	EL04077A	VAL2239	NA	12/12/00
LCS1W	VAL2239L	.623	103	1	NA	.1	.012	12/11/0021:24	12/11/0021:24	EL04055A	EL04053A	VAL2239	NA	12/11/00
LCD1W	VAL2239C	.589	104	1	NA	.1	.012	12/11/0021:58	12/11/0021:58	EL04056A	EL04053A	VAL2239	NA	12/11/00
18609-3715	L060-01	ND	88	1	NA	.1	.012	12/12/0006:31	12/12/0006:31	EL04071A	EL04065A	VAL2239	12/06/00	12/06/00
18609-3716	L060-02	ND	85	1	NA	.1	.012	12/12/0007:05	12/12/0007:05	EL04072A	EL04065A	VAL2239	12/06/00	12/06/00
18609-3717	L060-03	1.6	145*	1	NA	.1	.012	12/12/0007:39	12/12/0007:39	EL04073A	EL04065A	VAL2239	12/06/00	12/06/00

SURR : Bromofluorobenzene (W)65-135 (S)60-140
PRL : Reporting Limit
E : Value exceed the upper level of the initial calibration
D : Value from dilution
* : Out of QC limit

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
BATCH NO.: 00L060
METHOD: METHOD 5030B/M8015

MATRIX:	WATER			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK1W				
LAB SAMP ID:	VAL2239B	VAL2239L	VAL2239C		
LAB FILE ID:	EL04080A	EL04055A	EL04056A		
DATE EXTRACTED:	12/12/0012:13	12/11/0021:24	12/11/0021:58	DATE COLLECTED:	NA
DATE ANALYZED:	12/12/0012:13	12/11/0021:24	12/11/0021:58	DATE RECEIVED:	12/11/00
PREP. BATCH:	VAL2239	VAL2239	VAL2239		
CALIB. REF:	EL04077A	EL04053A	EL04053A		

ACCESSION:

PARAMETER	BLNK RSLT (mg/L)	SPIKE AMT (mg/L)	BS RSLT (mg/L)	BS % REC	SPIKE AMT (mg/L)	BSD RSLT (mg/L)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
Gasoline	ND	.55	.623	113	.55	.589	107	6	67-136	30

SURROGATE PARAMETER	SPIKE AMT (mg/L)	BS RSLT (mg/L)	BS % REC	SPIKE AMT (mg/L)	BSD RSLT (mg/L)	BSD % REC	QC LIMIT (%)
Bromofluorobenzene	.02	.0207	103	.02	.0209	104	65-135

METHOD 5030A/8260A
VOLATILE ORGANICS BY GC/MS

Client	: IT CORPORATION	Date Collected:	12/06/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	12/06/00
Batch No.	: 00L060	Date Extracted:	12/07/00 19:35
Sample ID:	18609-3715	Date Analyzed:	12/07/00 19:35
Lab Samp ID:	L060-01	Dilution Factor:	1
Lab File ID:	RLP105	Matrix :	WATER
Ext Btch ID:	VOL0802	% Moisture :	NA
Calib. Ref.:	RLP093	Instrument ID :	T-002

PARAMETERS	RESULTS (ug/L)	PRL (ug/L)	MDL (ug/L)
1,1,1-TRICHLOROETHANE	ND	5	.91
1,1,2,2-TETRACHLOROETHANE	ND	5	1.1
1,1,2-TRICHLOROETHANE	ND	5	.83
1,1-DICHLOROETHANE	ND	5	.65
1,1-DICHLOROETHENE	ND	5	.86
1,2-DICHLOROETHANE	ND	5	.95
1,2-DICHLOROPROPANE	ND	5	.73
2-BUTANONE	ND	50	6.7
2-CHLOROETHYLVINYLETHER	ND	50	1.3
2-HEXANONE	ND	50	5.6
4-METHYL-2-PENTANONE	ND	50	3.6
ACETONE	ND	50	9.6
BENZENE	ND	5	.77
BROMODICHLOROMETHANE	ND	5	.82
BROMOFORM	ND	5	.74
BROMOMETHANE	ND	5	1.9
CARBON DISULFIDE	ND	5	.61
CARBON TETRACHLORIDE	ND	5	.83
CHLOROBENZENE	ND	5	1.1
CHLOROETHANE	ND	5	1.7
CHLOROFORM	ND	5	.67
LOROMETHANE	ND	5	.67
CIS-1,2-DICHLOROETHENE	ND	5	.79
CIS-1,3-DICHLOROPROPENE	ND	5	.79
DIBROMOCHLOROMETHANE	ND	5	.71
ETHYLBENZENE	ND	5	1
MTBE	ND	10	.77
METHYLENE CHLORIDE	ND	5	1.4
STYRENE	ND	5	.87
TETRACHLOROETHENE	ND	5	1.1
TOLUENE	ND	5	.99
TRANS-1,2-DICHLOROETHENE	ND	5	.73
TRANS-1,3-DICHLOROPROPENE	ND	5	.82
TRICHLOROETHENE	ND	5	.89
VINYL ACETATE	ND	50	1.4
VINYL CHLORIDE	ND	5	2.5
XYLENES	ND	5	3.1

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	99	62-139
BROMOFLUOROBENZENE	101	75-125
TOLUENE-D8	94	75-125

PRL: Project Reporting Limit
* : Out side of QC Limit
J : An estimated value between PRL and MDL
E : Value exceed the upper level of the initial calibration
B : Found in the associated blank
D : Value from dilution analysis

METHOD 5030A/8260A
VOLATILE ORGANICS BY GC/MS

Client	: IT CORPORATION	Date Collected:	12/06/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	12/06/00
Batch No.	: 00L060	Date Extracted:	12/07/00 20:10
Sample ID:	18609-3716	Date Analyzed:	12/07/00 20:10
Lab Samp ID:	L060-02	Dilution Factor:	1
Lab File ID:	RLP106	Matrix	: WATER
Ext Btch ID:	VOL0802	% Moisture	: NA
Calib. Ref.:	RLP093	Instrument ID	: T-002

PARAMETERS	RESULTS (ug/L)	PRL (ug/L)	MDL (ug/L)
1,1,1-TRICHLOROETHANE	ND	5	.91
1,1,2,2-TETRACHLOROETHANE	ND	5	1.1
1,1,2-TRICHLOROETHANE	ND	5	.83
1,1-DICHLOROETHANE	ND	5	.65
1,1-DICHLOROETHENE	ND	5	.86
1,2-DICHLOROETHANE	ND	5	.95
1,2-DICHLOROPROPANE	ND	5	.73
2-BUTANONE	ND	50	6.7
2-CHLOROETHYLVINYLETHER	ND	50	1.3
2-HEXANONE	ND	50	5.6
4-METHYL-2-PENTANONE	ND	50	3.6
ACETONE	ND	50	9.6
BENZENE	ND	5	.77
BROMODICHLOROMETHANE	ND	5	.82
BROMOFORM	ND	5	.74
BROMOMETHANE	ND	5	1.9
CARBON DISULFIDE	ND	5	.61
CARBON TETRACHLORIDE	ND	5	.83
CHLOROBENZENE	ND	5	1.1
CHLOROETHANE	ND	5	1.7
CHLOROFORM	ND	5	.67
CHLOROMETHANE	ND	5	.67
CIS-1,2-DICHLOROETHENE	ND	5	.79
CIS-1,3-DICHLOROPROPENE	ND	5	.79
DIBROMOCHLOROMETHANE	ND	5	.71
ETHYLBENZENE	ND	5	1
MTBE	ND	10	.77
METHYLENE CHLORIDE	4.7J	5	1.4
STYRENE	ND	5	.87
TETRACHLOROETHENE	ND	5	1.1
TOLUENE	ND	5	.99
TRANS-1,2-DICHLOROETHENE	ND	5	.73
TRANS-1,3-DICHLOROPROPENE	ND	5	.82
TRICHLOROETHENE	ND	5	.89
VINYL ACETATE	ND	50	1.4
VINYL CHLORIDE	ND	5	2.5
XYLENES	ND	5	3.1

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	94	62-139
~~BROMOFLUOROBENZENE~~	~~101~~	~~75-125~~
TOLUENE-D8	95	75-125

PRL: Project Reporting Limit
* : Out side of QC Limit
J : An estimated value between PRL and MDL
E : Value exceed the upper level of the initial calibration
B : Found in the associated blank
D : Value from dilution analysis

METHOD 5030A/8260A
VOLATILE ORGANICS BY GC/MS

ient	: IT CORPORATION	Date Collected:	12/06/00
oject	: MCAS EL TORO/18609/D.O. 70	Date Received:	12/06/00
Batch No.	: 00L060	Date Extracted:	12/07/00 20:45
Sample ID:	18609-3717	Date Analyzed:	12/07/00 20:45
Lab Samp ID:	L060-03	Dilution Factor:	1
Lab File ID:	RLP107	Matrix :	WATER
Ext Btch ID:	VOL0802	% Moisture :	NA
Calib. Ref.:	RLP093	Instrument ID :	T-002

PARAMETERS	RESULTS (ug/L)	PRL (ug/L)	MDL (ug/L)
1,1,1-TRICHLOROETHANE	ND	5	.91
1,1,2,2-TETRACHLOROETHANE	ND	5	1.1
1,1,2-TRICHLOROETHANE	ND	5	.83
1,1-DICHLOROETHANE	ND	5	.65
1,1-DICHLOROETHENE	ND	5	.86
1,2-DICHLOROETHANE	ND	5	.95
1,2-DICHLOROPROPANE	ND	5	.73
2-BUTANONE	ND	50	6.7
2-CHLOROETHYLVINYLETHER	ND	50	1.3
2-HEXANONE	ND	50	5.6
4-METHYL-2-PENTANONE	ND	50	3.6
ACETONE	12J	50	9.6
BENZENE	9.5	5	.77
BROMODICHLOROMETHANE	ND	5	.82
BROMOFORM	ND	5	.74
BROMOMETHANE	ND	5	1.9
CARBON DISULFIDE	ND	5	.61
CARBON TETRACHLORIDE	ND	5	.83
CHLOROBENZENE	ND	5	1.1
CHLOROETHANE	ND	5	1.7
CHLOROFORM	3J	5	.67
LOROMETHANE	ND	5	.67
CIS-1,2-DICHLOROETHENE	ND	5	.79
CIS-1,3-DICHLOROPROPENE	ND	5	.79
DIBROMOCHLOROMETHANE	ND	5	.71
ETHYLBENZENE	14	5	1
MTBE	ND	10	.77
METHYLENE CHLORIDE	4J	5	1.4
STYRENE	ND	5	.87
TETRACHLOROETHENE	ND	5	1.1
TOLUENE	ND	5	.99
TRANS-1,2-DICHLOROETHENE	ND	5	.73
TRANS-1,3-DICHLOROPROPENE	ND	5	.82
TRICHLOROETHENE	ND	5	.89
VINYL ACETATE	ND	50	1.4
VINYL CHLORIDE	ND	5	2.5
XYLENES	9.7	5	3.1

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	98	62-139
BROMOFLUOROBENZENE	102	75-125
TOLUENE-D8	95	75-125

PRL: Project Reporting Limit
* : Out side of QC Limit
J : An estimated value between PRL and MDL
E : Value exceed the upper level of the initial calibration
B : Found in the associated blank
D : Value from dilution analysis

METHOD 5030A/8260A
VOLATILE ORGANICS BY GC/MS

Client	: IT CORPORATION	Date Collected:	NA
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	12/07/00
Batch No.	: 00L060	Date Extracted:	12/07/00 14:18
Sample ID:	MBLK1W	Date Analyzed:	12/07/00 14:18
Lab Samp ID:	VOL0802B	Dilution Factor:	1
Lab File ID:	RLP096	Matrix :	WATER
Ext Btch ID:	VOL0802	% Moisture :	NA
Calib. Ref.:	RLP093	Instrument ID :	T-002

PARAMETERS	RESULTS (ug/L)	PRL (ug/L)	MDL (ug/L)
1,1,1-TRICHLOROETHANE	ND	5	.91
1,1,2,2-TETRACHLOROETHANE	ND	5	1.1
1,1,2-TRICHLOROETHANE	ND	5	.83
1,1-DICHLOROETHANE	ND	5	.65
1,1-DICHLOROETHENE	ND	5	.86
1,2-DICHLOROETHANE	ND	5	.95
1,2-DICHLOROPROPANE	ND	5	.73
2-BUTANONE	ND	50	6.7
2-CHLOROETHYLVINYLETHER	ND	50	1.3
2-HEXANONE	ND	50	5.6
4-METHYL-2-PENTANONE	ND	50	3.6
ACETONE	ND	50	9.6
BENZENE	ND	5	.77
BROMODICHLOROMETHANE	ND	5	.82
BROMOFORM	ND	5	.74
BROMOMETHANE	ND	5	1.9
CARBON DISULFIDE	ND	5	.61
CARBON TETRACHLORIDE	ND	5	.83
CHLOROBENZENE	ND	5	1.1
CHLOROETHANE	ND	5	1.7
CHLOROFORM	ND	5	.67
CHLOROMETHANE	ND	5	.67
CIS-1,2-DICHLOROETHENE	ND	5	.79
CIS-1,3-DICHLOROPROPENE	ND	5	.79
DIBROMOCHLOROMETHANE	ND	5	.71
ETHYLBENZENE	ND	5	1
MTBE	ND	10	.77
METHYLENE CHLORIDE	ND	5	1.4
STYRENE	ND	5	.87
TETRACHLOROETHENE	ND	5	1.1
TOLUENE	ND	5	.99
TRANS-1,2-DICHLOROETHENE	ND	5	.73
TRANS-1,3-DICHLOROPROPENE	ND	5	.82
TRICHLOROETHENE	ND	5	.89
VINYL ACETATE	ND	50	1.4
VINYL CHLORIDE	ND	5	2.5
XYLENES	ND	5	3.1

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	98	62-139
~~BROMOFLUOROBENZENE~~	~~103~~	~~75-125~~
TOLUENE-D8	100	75-125

PRL: Project Reporting Limit
* : Out side of QC Limit
J : An estimated value between PRL and MDL
E : Value exceed the upper level of the initial calibration
B : Found in the associated blank
D : Value from dilution analysis

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
BATCH NO.: 00L060
METHOD: METHOD 5030A/8260A

==========

MATRIX: WATER % MOISTURE: NA

DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK1W				
LAB SAMP ID:	VOL0802B	VOL0802L	VOL0802C		
LAB FILE ID:	RLP096	RLP094	RLP095		
DATE EXTRACTED:	12/07/0014:18	12/07/0013:08	12/07/0013:43	DATE COLLECTED:	NA
DATE ANALYZED:	12/07/0014:18	12/07/0013:08	12/07/0013:43	DATE RECEIVED:	12/07/00
PREP. BATCH:	VOL0802	VOL0802	VOL0802		
CALIB. REF:	RLP093	RLP093	RLP093		

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
1,1-Dichloroethene	ND	20	20.4	102	20	19.6	98	4	75-125	20
Benzene	ND	20	20.9	104	20	20.5	103	2	75-125	20
Chlorobenzene	ND	20	20.8	104	20	20	100	4	75-125	20
Toluene	ND	20	20.3	102	20	20	100	1	74-125	20
Trichloroethene	ND	20	20.2	101	20	19.7	99	2	71-125	20

==========

SURROGATE PARAMETER	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	QC LIMIT (%)
1,2-Dichlorethane-d4	50	49.6	99	50	49.7	100	62-139
Bromofluorobenzene	50	53.1	106	50	53.1	106	75-125
Toluene-d8	50	52.6	105	50	52.4	105	75-125

METHOD 300.0
NITRATE/NITRITE-N

Client : IT CORPORATION
Project : MCAS EL TORO/18609/D.O. 70
Batch No. : OOL060

Matrix : WATER
Instrument ID : TI006

SAMPLE ID	EMAX SAMPLE ID	RESULTS (mg/L)	DLF	MOIST	RL (mg/L)	MDL (mg/L)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1W	ICL025WB	ND	1	NA	.1	.0206	12/13/0002:33	NA	AL12047A	AL12045A	ICL025W	NA	NA
LCS1W	ICL025WL	4	1	NA	.1	.0206	12/13/0002:50	NA	AL12048A	AL12045A	ICL025W	NA	NA
18609-3716	L060-02	11.62	10	NA	1	.206	12/13/0004:15	NA	AL12053A	AL12045A	ICL025W	12/06/00	12/06/00
18609-3717	L060-03	6.49	10	NA	1	.206	12/13/0004:32	NA	AL12054A	AL12045A	ICL025W	12/06/00	12/06/00
18609-3717DUP	L060-03D	6.42	10	NA	1	.206	12/13/0004:49	NA	AL12055A	AL12045A	ICL025W	12/06/00	12/06/00
18609-3717MS	L060-03M	24.46	10	NA	1	.206	12/13/0005:06	NA	AL12056A	AL12045A	ICL025W	12/06/00	12/06/00

RL: Reporting Limit

8013

METHOD 300.0
SULFATE

Client : IT CORPORATION
Project : MCAS EL TORO/18609/D.O. 70
Batch No. : 00L060

Matrix : WATER
Instrument ID : TI006

SAMPLE ID	EMAX SAMPLE ID	RESULTS (mg/L)	DLF	MOIST	RL (mg/L)	MDL (mg/L)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1W	ICL025WB	ND	1	NA	.5	.101	12/13/0002:33	NA	AL12047A	AL12045A	ICL025W	NA	NA
LCS1W	ICL025WL	21.8	1	NA	.5	.101	12/13/0002:50	NA	AL12048A	AL12045A	ICL025W	NA	NA
18609-3716	L060-02	173	25	NA	12.5	2.53	12/13/0003:07	NA	AL12049A	AL12045A	ICL025W	12/06/00	12/06/00
18609-3717	L060-03	153	25	NA	12.5	2.53	12/13/0003:24	NA	AL12050A	AL12045A	ICL025W	12/06/00	12/06/00
18609-3717DUP	L060-03D	150	25	NA	12.5	2.53	12/13/0003:41	NA	AL12051A	AL12045A	ICL025W	12/06/00	12/06/00
18609-3717MS	L060-03M	273	25	NA	12.5	2.53	12/13/0003:58	NA	AL12052A	AL12045A	ICL025W	12/06/00	12/06/00

RL : Reporting Limit

METHOD 300.0
ORTHOPHOSPHATE-P

Client : IT CORPORATION
Project : MCAS EL TORO/18609/D.O. 70
Batch No. : 00L060

Matrix : WATER
Instrument ID : TI006

SAMPLE ID	EMAX SAMPLE ID	RESULTS (mg/L)	DLF	MOIST	RL (mg/L)	MDL (mg/L)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1W	ICL024WB	ND	1	NA	.5	.0322	12/12/0020:01	NA	AL12024A	AL12021A	ICL024W	NA	NA
LCS1W	ICL024WL	2.14	1	NA	.5	.0322	12/12/0020:18	NA	AL12025A	AL12021A	ICL024W	NA	NA
18609-3716	L060-02	ND	1	NA	.5	.0322	12/13/0000:17	NA	AL12039A	AL12033A	ICL024W	12/06/00	12/06/00
18609-3717	L060-03	ND	1	NA	.5	.0322	12/13/0000:34	NA	AL12040A	AL12033A	ICL024W	12/06/00	12/06/00
18609-3717DUP	L060-03D	ND	1	NA	.5	.0322	12/13/0000:51	NA	AL12041A	AL12033A	ICL024W	12/06/00	12/06/00
18609-3717MS	L060-03M	1.85	1	NA	.5	.0322	12/13/0001:08	NA	AL12042A	AL12033A	ICL024W	12/06/00	12/06/00

RL : Reporting Limit

EMAX QUALITY CONTROL DATA
LCS ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
BATCH NO.: 00L060
METHOD: METHOD 300.0

==========

MATRIX:	WATER		% MOISTURE:	NA
DILUTION FACTOR:	1	1		
SAMPLE ID:	MBLK1W			
LAB SAMP ID:	ICL025WB	ICL025WL		
LAB FILE ID:	AL12047A	AL12048A		
DATE EXTRACTED:	NA	NA	DATE COLLECTED:	NA
DATE ANALYZED:	12/13/0002:33	12/13/0002:50	DATE RECEIVED:	NA
PREP. BATCH:	ICL025W	ICL025W		
CALIB. REF:	AL12045A	AL12045A		

ACCESSION:

PARAMETER	BLNK RSLT (mg/L)	SPIKE AMT (mg/L)	BS RSLT (mg/L)	BS % REC	QC LIMIT (%)
Nitrate/Nitrite-N	ND	4	4	100	80-120

8007

EMAX QUALITY CONTROL DATA
MS ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
BATCH NO.: 00L060
METHOD: METHOD 300.0

==========

MATRIX:	WATER		% MOISTURE:	NA
DILUTION FACTOR:	10	10		
SAMPLE ID:	18609-3717			
LAB SAMP ID:	L060-03	L060-03M		
LAB FILE ID:	AL12054A	AL12056A		
DATE EXTRACTED:	NA	NA	DATE COLLECTED:	12/06/00
DATE ANALYZED:	12/13/0004:32	12/13/0005:06	DATE RECEIVED:	12/06/00
PREP. BATCH:	ICL025W	ICL025W		
CALIB. REF:	AL12045A	AL12045A		

ACCESSION:

PARAMETER	SMPL RSLT (mg/L)	SPIKE AMT (mg/L)	MS RSLT (mg/L)	MS % REC	QC LIMIT (%)
Nitrate/Nitrite-N	6.49	20	24.46	90	80-120

8009

EMAX QUALITY CONTROL DATA
LCS ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
BATCH NO.: 00L060
METHOD: METHOD 300.0

==========

MATRIX: WATER
% MOISTURE: NA

DILUTION FACTOR:	1	1
SAMPLE ID:	MBLK1W	
LAB SAMP ID:	ICL024WB	ICL024WL
LAB FILE ID:	AL12024A	AL12025A
DATE EXTRACTED:	NA	NA
DATE ANALYZED:	12/12/0020:01	12/12/0020:18
PREP. BATCH:	ICL024W	ICL024W
CALIB. REF:	AL12021A	AL12021A

DATE COLLECTED: NA
DATE RECEIVED: NA

ACCESSION:

PARAMETER	BLNK RSLT (mg/L)	SPIKE AMT (mg/L)	BS RSLT (mg/L)	BS % REC	QC LIMIT (%)
Orthophosphate-P	ND	2	2.14	107	80-120

0010

EMAX QUALITY CONTROL DATA
MS ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
BATCH NO.: 00L060
METHOD: METHOD 300.0

==========

MATRIX:	WATER		% MOISTURE:	NA
DILUTION FACTOR:	1	1		
SAMPLE ID:	18609-3717			
LAB SAMP ID:	L060-03	L060-03M		
LAB FILE ID:	AL12040A	AL12042A		
DATE EXTRACTED:	NA	NA	DATE COLLECTED:	12/06/00
DATE ANALYZED:	12/13/0000:34	12/13/0001:08	DATE RECEIVED:	12/06/00
PREP. BATCH:	ICL024W	ICL024W		
CALIB. REF:	AL12033A	AL12033A		

ACCESSION:

PARAMETER	SMPL RSLT (mg/L)	SPIKE AMT (mg/L)	MS RSLT (mg/L)	MS % REC	QC LIMIT (%)
Orthophosphate-P	ND	2	1.85	93	80-120

8012

EMAX QUALITY CONTROL DATA
LCS ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
BATCH NO.: 00L060
METHOD: METHOD 300.0

==========

MATRIX: WATER
% MOISTURE: NA
DILUTION FACTOR: 1 1
SAMPLE ID: MBLK1W
LAB SAMP ID: ICL025WB ICL025WL
LAB FILE ID: AL12047A AL12048A
DATE EXTRACTED: NA NA
DATE COLLECTED: NA
DATE ANALYZED: 12/13/0002:33 12/13/0002:50
DATE RECEIVED: NA
PREP. BATCH: ICL025W ICL025W
CALIB. REF: AL12045A AL12045A

ACCESSION:

PARAMETER	BLNK RSLT (mg/L)	SPIKE AMT (mg/L)	BS RSLT (mg/L)	BS % REC	QC LIMIT (%)
Sulfate	ND	20	21.8	109	80-120

3013

EMAX QUALITY CONTROL DATA
MS ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
BATCH NO.: 00L060
METHOD: METHOD 300.0

==========

MATRIX:	WATER		% MOISTURE:	NA
DILUTION FACTOR:	25	25		
SAMPLE ID:	18609-3717			
LAB SAMP ID:	L060-03	L060-03M		
LAB FILE ID:	AL12050A	AL12052A		
DATE EXTRACTED:	NA	NA	DATE COLLECTED:	12/06/00
DATE ANALYZED:	12/13/0003:24	12/13/0003:58	DATE RECEIVED:	12/06/00
PREP. BATCH:	ICL025W	ICL025W		
CALIB. REF:	AL12045A	AL12045A		

ACCESSION:

PARAMETER	SMPL RSLT (mg/L)	SPIKE AMT (mg/L)	MS RSLT (mg/L)	MS % REC	QC LIMIT (%)
Sulfate	153	125	273	96	80-120

3015

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: MCAS El Toro

Collection Date: December 6, 2000

LDC Report Date: January 4, 2001

Matrix: Water

Parameters: Total Petroleum Hydrocarbons as Extractables

Validation Level: NFESC Level C

Laboratory: EMAX Laboratories, Inc.

Sample Delivery Group (SDG): 00L060

Sample Identification

18609-3716
18609-3717

Introduction

This data review covers 2 water samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8015 modified for Total Petroleum Hydrocarbons (TPH) as Extractables.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (October 1999) as there are no current guidelines for the method stated above.

A table summarizing all data qualification is provided at the end of this report. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Blank results are summarized in Section III.

Field duplicates are summarized in Section IX.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Calibration

a. Initial Calibration

Initial calibration of compounds was performed as required by the method.

The percent relative standard deviations (%RSD) of calibration factors for compounds were less than or equal to 20.0% .

b. Calibration Verification

Calibration verification was performed at required frequencies. The percent differences (%D) of amounts in continuing standard mixtures were within the 15.0% QC limits.

III. Blanks

Method blanks were reviewed for each matrix as applicable. No total petroleum hydrocarbons as extractable contaminants were found in the method blanks.

IV. Accuracy and Precision Data

a. Surrogate Recovery

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

b. Matrix Spike/Matrix Spike Duplicates

The laboratory has indicated that there were no matrix spike (MS) and matrix spike duplicate (MSD) analyses specified for the samples in this SDG, and therefore matrix spike and matrix spike duplicate analyses were not performed for this SDG.

c. Laboratory Control Samples

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

V. Target Compound Identification

Raw data were not reviewed for this SDG.

VI. Compound Quantitation and CRQLs

Raw data were not reviewed for this SDG.

VII. System Performance

Raw data were not reviewed for this SDG.

VIII. Overall Assessment of Data

Data flags have been summarized at the end of this report.

IX. Field Duplicates

No field duplicates were identified in this SDG.

X. Field Blanks

No field blanks were identified in this SDG.

MCAS El Toro
Total Petroleum Hydrocarbons as Extractables - Data Qualification Summary - SDG 00L060

No Sample Data Qualified in this SDG

MCAS El Toro
Total Petroleum Hydrocarbons as Extractables - Laboratory Blank Data Qualification Summary - SDG 00L060

No Sample Data Qualified in this SDG

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: MCAS El Toro

Collection Date: December 6, 2000

LDC Report Date: January 4, 2001

Matrix: Water

Parameters: Total Petroleum Hydrocarbons as Gasoline

Validation Level: NFESC Level C

Laboratory: EMAX Laboratories, Inc.

Sample Delivery Group (SDG): 00L060

Sample Identification

18609-3715
18609-3716
18609-3717

Introduction

This data review covers 3 water samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8015 modified for Total Petroleum Hydrocarbons (TPH) as Gasoline.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (October 1999) as there are no current guidelines for the method stated above.

A table summarizing all data qualification is provided at the end of this report. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Blank results are summarized in Section III.

Field duplicates are summarized in Section IX.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Calibration

a. Initial Calibration

Initial calibration of compounds was performed as required by the method.

The percent relative standard deviations (%RSD) of calibration factors for compounds were less than or equal to 20.0% .

b. Calibration Verification

Calibration verification was performed at required frequencies. The percent differences (%D) of amounts in continuing standard mixtures were within the 15.0% QC limits.

III. Blanks

Method blanks were reviewed for each matrix as applicable. No total petroleum hydrocarbons as gasoline contaminants were found in the method blanks.

IV. Accuracy and Precision Data

a. Surrogate Recovery

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits with the following exceptions:

Sample	Surrogate	%R (Limits)	Compound	Flag	A or P
18609-3717	Bromofluorobenzene	145 (65-135)	TPH as gasoline	J (all detects)	P

b. Matrix Spike/Matrix Spike Duplicates

The laboratory has indicated that there were no matrix spike (MS) and matrix spike duplicate (MSD) analyses specified for the samples in this SDG, and therefore matrix spike and matrix spike duplicate analyses were not performed for this SDG.

c. Laboratory Control Samples

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

V. Target Compound Identification

Raw data were not reviewed for this SDG.

VI. Compound Quantitation and CRQLs

Raw data were not reviewed for this SDG.

VII. System Performance

Raw data were not reviewed for this SDG.

VIII. Overall Assessment of Data

Data flags have been summarized at the end of this report.

IX. Field Duplicates

No field duplicates were identified in this SDG.

X. Field Blanks

Sample 18609-3715 was identified as a trip blank. No total petroleum hydrocarbons as gasoline contaminants were found in this blank.

MCAS El Toro
Total Petroleum Hydrocarbons as Gasoline - Data Qualification Summary - SDG 00L060

SDG	Sample	Compound	Flag	A or P	Reason
00L060	18609-3717	TPH as gasoline	J (all detects)	P	Surrogate recovery (%R)

MCAS El Toro
Total Petroleum Hydrocarbons as Gasoline - Laboratory Blank Data Qualification Summary - SDG 00L060

No Sample Data Qualified in this SDG

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: MCAS El Toro

Collection Date: December 6, 2000

LDC Report Date: December 29, 2000

Matrix: Water

Parameters: Volatiles

Validation Level: NFESC Level C

Laboratory: EMAX Laboratories, Inc.

Sample Delivery Group (SDG): 00L060

Sample Identification

18609-3715
18609-3716
18609-3717

Introduction

This data review covers 3 water samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8260A for Volatiles.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (October 1999) as there are no current guidelines for the method stated above.

A table summarizing all data qualification is provided at the end of this report. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Blank results are summarized in Section V.

Field duplicates are summarized in Section XVI.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. GC/MS Instrument Performance Check

Instrument performance was checked at 12 hour intervals.

All ion abundance requirements were met.

III. Initial Calibration

Initial calibration was performed using required standard concentrations.

Percent relative standard deviations (%RSD) were less than or equal to 30.0% for all calibration check compounds and less than or equal to 50.0% for all other compounds.

Average relative response factors (RRF) for all volatile target compounds and system performance check compounds (SPCCs) were within method and validation criteria with the following exceptions:

Date	Compound	RRF (Limits)	Associated Samples	Flag	A or P
11/17/00	Acetone	0.04427 (≥0.05)	All samples in SDG 00L060	J (all detects) R (all non-detects)	A

IV. Continuing Calibration

Continuing calibration was performed at the required frequencies.

All of the continuing calibration percent differences (%D) between the initial calibration RRF and the continuing calibration RRF were less than or equal to 25.0% for all calibration check compounds and less than or equal to 50.0% for all other compounds.

All of the continuing calibration RRF values were within method and validation criteria with the following exceptions:

Date	Compound	RRF (Limits)	Associated Samples	Flag	A or P
12/7/00	Acetone	0.04122 (≥0.05)	All samples in SDG 00L060	J (all detects) R (all non-detects)	A

V. Blanks

Method blanks were reviewed for each matrix as applicable. No volatile contaminants were found in the method blanks.

VI. Surrogate Spikes

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

VII. Matrix Spike/Matrix Spike Duplicates

The laboratory has indicated that there were no matrix spike (MS) and matrix spike duplicate (MSD) analyses specified for the samples in this SDG, and therefore matrix spike and matrix spike duplicate analyses were not performed for this SDG.

VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

IX. Regional Quality Assurance and Quality Control

Not applicable.

X. Internal Standards

All internal standard areas and retention times were within QC limits.

XI. Target Compound Identifications

Raw data were not reviewed for this SDG.

XII. Compound Quantitation and CRQLs

Raw data were not reviewed for this SDG.

XIII. Tentatively Identified Compounds (TICs)

Raw data were not reviewed for this SDG.

XIV. System Performance

Raw data were not reviewed for this SDG.

XV. Overall Assessment of Data

Data flags have been summarized at the end of the report.

XVI. Field Duplicates

No field duplicates were identified in this SDG.

XVII. Field Blanks

Sample 18609-3715 was identified as a trip blank. No volatile contaminants were found in this blank.

MCAS El Toro
Volatiles - Data Qualification Summary - SDG 00L060

SDG	Sample	Compound	Flag	A or P	Reason
00L060	18609-3715 18609-3716 18609-3717	Acetone	J (all detects) R (all non-detects)	A	Initial calibration (RRF)
00L060	18609-3715 18609-3716 18609-3717	Acetone	J (all detects) R (all non-detects)	A	Continuing calibration (RRF)

MCAS El Toro
Volatiles - Laboratory Blank Data Qualification Summary - SDG 00L060

No Sample Data Qualified in this SDG

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: MCAS El Toro

Collection Date: December 6, 2000

LDC Report Date: January 2, 2001

Matrix: Water

Parameters: Wet Chemistry

Validation Level: NFESC Level C

Laboratory: EMAX Laboratories, Inc.

Sample Delivery Group (SDG): 00L060

Sample Identification

18609-3716
18609-3717
18609-3717MS
18609-3717MSD
18609-3717DUP

Introduction

This data review covers 5 water samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA Method 120.1 for Conductivity, EPA Method 160.1 for Total Dissolved Solids, EPA Method 300.0 for Nitrate/Nitrite as Nitrogen, Sulfate, and Orthophosphate, EPA Method 310.1 for Alkalinity, and EPA Method 351.3 for Total Kjeldahl Nitrogen.

The review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review (February 1994) as there are no current guidelines for the methods stated above.

A table summarizing all data qualification is provided at the end of this report. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Blank results are summarized in Section III.

Field duplicates are summarized in Section VII.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met with the following exceptions:

Sample	Analyte	Total Time From Sample Collection Until Analysis	Required Holding Time From Sample Collection Until Analysis	Flag	A or P
18609-3716 18609-3717 18609-3717MS 18609-3717DUP	Orthophosphate	7 days	48 hours	J (all detects) R (all non-detects)	P

Non-detected sample concentrations were qualified as unusable (R) due to a gross exceedance (>2X) of holding time.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II Calibration

a. Initial Calibration

All criteria for the initial calibration of each method were met with the following exceptions:

Sample	Analyte	Finding	Criteria	Flag	A or P
All samples in SDG 00L060	Sulfate Nitrate/Nitrite as N Orthophosphate Total kjeldahl nitrogen	A blank was not used to establish the calibration curve.	A blank must be used to establish the calibration curve.	None None None None	P

b. Calibration Verification

Calibration verification frequency and analysis criteria were met for each method when applicable.

III. Blanks

Method blanks were reviewed for each matrix as applicable. No contaminant concentrations were found in the method blanks.

IV. Accuracy and Precision Data

a. Matrix Spike/(Matrix Spike) Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

Duplicate (DUP) sample analyses were reviewed for each matrix as applicable. Relative percent differences (RPD) were within QC limits.

b. Laboratory Control Samples

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

V. Sample Result Verification

Raw data were not reviewed for this SDG.

VI. Overall Assessment of Data

Data flags are summarized at the end of this report.

VII. Field Duplicates

No field duplicates were identified in this SDG.

VIII. Field Blanks

No field blanks were identified in this SDG.

MCAS El Toro
Wet Chemistry - Data Qualification Summary - SDG 00L060

SDG	Sample	Analyte	Flag	A or P	Reason
00L060	18609-3716 18609-3717	Orthophosphate	J (all detects) R (all non-detects)	P	Technical holding times
00L060	18609-3716 18609-3717	Nitrate/Nitrite as N Sulfate Orthophosphate Total kjeldahl nitrogen	None None None None	P	Initial calibration

MCAS El Toro
Wet Chemistry - Laboratory Blank Data Qualification Summary - SDG 00L060

No Sample Data Qualified in this SDG

the IT group

IT Corporation
2790 Mosside Blvd.
Monroeville, PA 15146-2792
(412)372-7701

CHAIN-OF-CUSTODY RECORD

PROJECT DATA MANAGER'S COPY

A 12399

TF 398 - GW - Semi - Annual

FORM 0019 REV. 9-99

IT S LAB COORDINATOR	LAB COORDINATOR'S PHONE	LAB COORDINATOR'S FAX	LABORATORY SERVICE ID	LABORATORY CONTACT	MAIL REPORT (COMPANY NAME)
M. Gonzalez	949-660-7550	949-475-5433	002083	EMAX	IT Group
PROJECT NAME: Semi-Annual	PROJECT LOCATION MCAS El Toro, CA	PROJECT NUMBER 18609	LABORATORY PHONE 310-618-8889	LABORATORY FAX 310-618-0818	RECIPIENT NAME Dwayne Ishida
PROJECT CONTACT M. Gonzalez	PROJECT PHONE NUMBER 949-451-1661	PROJECT FAX 949-451-1672	LABORATORY ADDRESS 630 Maple Ave.		ADDRESS 3347 Michelson #200
PROJECT ADDRESS MCAS Bldg 311, El Toro	CITY, STATE AND ZIP CODE Santa Ana, CA 92708	CLIENT SWDIV	CITY, STATE AND ZIP CODE Torrance, CA 90503		CITY, STATE AND ZIP CODE Irvine, CA 92612
PROJECT MANAGER D. Rawal	PROJECT MANAGER'S PHONE 949-660-7576	PROJECT MANAGER'S FAX 949-474-8309			

Item	Sample Identifier	Matrix	Date 2000	Time	Preserved	# of Cont.	QC Level	T.A.T.	Analyses 8260	TPH-9015	TPH-Diesel	TPH-375	Sp. Grav.	TDS-Dry	PO4	TKN-N043	Comments
1	18609-3719	W	12/7	0800	4°C	3	3	5 day	X	X						1	
2	18609-3720	↓	↓	1040	↓	11	↓	↓	X	X	X	X	X	X	X	X	
3	18609-3721			1415		11			X	X	X	X	X	X	X	X	
4	18609-3722			1530		8			X	X	X	X	X	X	X	X	
5																	
6																	
7																	
8																	
9																	
10																	

W.I. 12/7/00

SAMPLES COLLECTED BY: W. Jefferson

COURIER AND AIR BILL NUMBER: Courier

COOLER TEMPERATURE UPON RECEIPT:

RELINQUISHED BY	RECEIVED BY	DATE	TIME	SAMPLE'S CONDITION UPON RECEIPT
Way-Lynn Jeffries	[illegible]	12/7/00	430	

Distribution: White - Laboratory (To be returned with Analytical Report); Goldenrod - Project File; Manilla - Project Data Manager

Project Information Section
For Project Personnel Only
Do Not Submit to Laboratory

TF 398 - GW - Semi-Annual

Sample Point Location	Sample Type G	C	F	QC
(1) Trip Blank	X			X
(8) ~~TF~~ 398-MW-17	X			
(9) ~~TF~~ 398-MW-04	X			
(4) Equipment Rinsate Pump #1	X			

Comments

12/15/00 rec'd 12/15/00

Sample Type: G - Grab, C - Composite, F - Field Sample, QC - Quality Control Sample

6306

EMAX
LABORATORIES, INC.
630 Maple Ave.
Torrance, CA 90503
Telephone: (310) 618-8889
Fax: (310) 618-0818

Date: 12-18-2000
EMAX Batch No.: 00L083

Attn: Dwayne Ishida

IT Corporation
3347 Michelson Dr. # 200
Irvine CA 92612

Subject: Laboratory Report
Project: MCAS El Toro/18609/D.O. 70

Enclosed is the Laboratory report for samples received on 12/07/00. The data reported include :

Sample ID	Control #	Col Date	Matrix	Analysis
18609-3719	L083-01	12/07/00	WATER	VOLATILE ORGANICS BY GC/MS
				TPH GASOLINE
18609-3720	L083-02	12/07/00	WATER	VOLATILE ORGANICS BY GC/MS
				TPH GASOLINE
				TPH DIESEL
				SPECIFIC CONDUCTANCE
				SOLIDS TOTAL DISSOLVED
				SULFATE BY IC
				ALKALINITY
				PHOSPHATE-P
				TKN
				NITRATE-N BY IC
18609-3721	L083-03	12/07/00	WATER	VOLATILE ORGANICS BY GC/MS
				TPH GASOLINE
				TPH DIESEL
				SPECIFIC CONDUCTANCE
				SOLIDS TOTAL DISSOLVED
				SULFATE BY IC
				ALKALINITY

Sample ID	Control #	Col Date	Matrix	Analysis
				PHOSPHATE-P
				TKN
				NITRATE-N BY IC
18609-3722	L083-04	12/07/00	WATER	VOLATILE ORGANICS BY GC/MS
				TPH GASOLINE
				TPH DIESEL
				SPECIFIC CONDUCTANCE
				SOLIDS TOTAL DISSOLVED
				SULFATE BY IC
				ALKALINITY
				PHOSPHATE-P
				TKN
				NITRATE-N BY IC

The results are summarized on the following pages.

Please feel free to call if you have any questions concerning these results.

Sincerely yours,

Kam Y. Pang, Ph.D.
Laboratory Director

EMAX LABORATORIES, INC., 630 Maple Ave., Torrance, CA 90503 TEL: (310) 618-8889 FAX: (310) 618-0818

METHOD M8015
TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

Client	: IT CORPORATION	Date Collected:	12/07/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	12/07/00
Batch No.	: 00L083	Date Extracted:	12/10/00 09:00
Sample ID:	18609-3720	Date Analyzed:	12/12/00 08:48
Lab Samp ID:	L083-02	Dilution Factor:	.95
Lab File ID:	TL03029A	Matrix :	WATER
Ext Btch ID:	DSL016W	% Moisture :	NA
Calib. Ref.:	TL03021A	Instrument ID :	GCT050

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
DIESEL	ND	.095	.064
JP5	.67**	.48	.12

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
BROMOBENZENE	100	65-135
HEXACOSANE	83	60-145

QC LIMIT : (SOIL) 60-140 55-150
QC LIMIT : (WATER) 65-135 60-145
SURR1 : Bromobenzene
SURR2 : Hexacosane
RL : Reporting Limit
** : Presence of JP5 like pattern, quantitated as JP5

METHOD M8015
TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

nt	: IT CORPORATION	Date Collected:	12/07/00
roject	: MCAS EL TORO/18609/D.O. 70	Date Received:	12/07/00
atch No.	: 00L083	Date Extracted:	12/10/00 09:00
ample ID:	18609-3721	Date Analyzed:	12/12/00 09:37
Lab Samp ID:	L083-03	Dilution Factor:	.95
Lab File ID:	TL03030A	Matrix	: WATER
xt Btch ID:	DSL016W	% Moisture	: NA
alib. Ref.:	TL03021A	Instrument ID	: GCT050

ARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
DIESEL	ND	.095	.064
P5	.61**	.48	.12

URROGATE PARAMETERS	% RECOVERY	QC LIMIT
ROMOBENZENE	100	65-135
EXACOSANE	80	60-145

QC LIMIT : (SOIL) 60-140 55-150
QC LIMIT : (WATER) 65-135 60-145
URR1 : Bromobenzene
URR2 : Hexacosane
RL : Reporting Limit
** : Presence of JP5 like pattern, quantitated as JP5.

METHOD M8015
TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

Client	: IT CORPORATION	Date Collected:	12/07/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	12/07/00
Batch No.	: 00L083	Date Extracted:	12/10/00 09:00
Sample ID:	18609-3722	Date Analyzed:	12/12/00 10:25
Lab Samp ID:	L083-04	Dilution Factor:	.94
Lab File ID:	TL03031A	Matrix :	WATER
Ext Btch ID:	DSL016W	% Moisture :	NA
Calib. Ref.:	TL03021A	Instrument ID :	GCT050

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
DIESEL	ND	.094	.063
JP5	ND	.47	.12

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
BROMOBENZENE	102	65-135
HEXACOSANE	80	60-145

QC LIMIT : (SOIL) 60-140 55-150
QC LIMIT : (WATER) 65-135 60-145
SURR1 : Bromobenzene
SURR2 : Hexacosane
RL : Reporting Limit

METHOD M8015
TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

Client	: IT CORPORATION	Date Collected:	NA
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	12/10/00
Batch No.	: 00L083	Date Extracted:	12/10/00 09:00
Sample ID:	MBLK1W	Date Analyzed:	12/12/00 03:56
Lab Samp ID:	DSL016WB	Dilution Factor:	1
Lab File ID:	TL03023A	Matrix :	WATER
Ext Btch ID:	DSL016W	% Moisture :	NA
Calib. Ref.:	TL03021A	Instrument ID :	GCT050

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
DIESEL	ND	.1	.067
JP5	ND	.5	.13

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
BROMOBENZENE	92	65-135
HEXACOSANE	77	60-145

QC LIMIT : (SOIL) 60-140 55-150
QC LIMIT : (WATER) 65-135 60-145
SURR1 : Bromobenzene
SURR2 : Hexacosane
RL : Reporting Limit

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
BATCH NO.: 00L083
METHOD: METHOD M8015

MATRIX:	WATER			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK1W				
LAB SAMP ID:	DSL016WB	DSL016WL	DSL016WC		
LAB FILE ID:	TL03023A	TL03024A	TL03025A		
DATE EXTRACTED:	12/10/0009:00	12/10/0009:00	12/10/0009:00	DATE COLLECTED:	NA
DATE ANALYZED:	12/12/0003:56	12/12/0004:45	12/12/0005:33	DATE RECEIVED:	12/10/00
PREP. BATCH:	DSL016W	DSL016W	DSL016W		
CALIB. REF:	TL03021A	TL03021A	TL03021A		

ACCESSION:

PARAMETER	BLNK RSLT (mg/L)	SPIKE AMT (mg/L)	BS RSLT (mg/L)	BS % REC	SPIKE AMT (mg/L)	BSD RSLT (mg/L)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
Diesel	ND	5	4.99	100	5	4.87	97	2	61-143	30

SURROGATE PARAMETER	SPIKE AMT (mg/L)	BS RSLT (mg/L)	BS % REC	SPIKE AMT (mg/L)	BSD RSLT (mg/L)	BSD % REC	QC LIMIT (%)
Bromobenzene	1	.963	96	1	1.03	103	65-135
Hexacosane	.25	.194	78	.25	.2	80	60-145

METHOD 5030B/M8015
TOTAL PETROLEUM HYDROCARBONS BY PURGE & TRAP

Client : IT CORPORATION
Project : MCAS EL TORO/18609/D.O. 70
Batch No. : 00L083

Matrix : WATER
Instrument ID : GCT039

SAMPLE ID	EMAX SAMPLE ID	RESULTS (mg/L)	SURR (%)	DLF	MOIST	PRL (mg/L)	MDL (mg/L)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1W	VAL2339B	ND	85	1	NA	.1	.012	12/12/0012:47	12/12/0012:47	EL04081A	EL04077A	VAL2339	NA	12/12/00
LCS1W	VAL2339L	.549	100	1	NA	.1	.012	12/12/0013:21	12/12/0013:21	EL04082A	EL04077A	VAL2339	NA	12/12/00
LCD1W	VAL2339C	.564	107	1	NA	.1	.012	12/12/0014:48	12/12/0014:48	EL04084A	EL04077A	VAL2339	NA	12/12/00
18609-3719	L083-01	ND	85	1	NA	.1	.012	12/12/0021:46	12/12/0021:46	EL04093A	EL04089A	VAL2339	12/07/00	12/07/00
18609-3720	L083-02	.9	163*	1	NA	.1	.012	12/12/0022:19	12/12/0022:19	EL04094A	EL04089A	VAL2339	12/07/00	12/07/00
18609-3721	L083-03	.67	169*	1	NA	.1	.012	12/12/0022:53	12/12/0022:53	EL04095A	EL04089A	VAL2339	12/07/00	12/07/00
18609-3722	L083-04	ND	91	1	NA	.1	.012	12/12/0023:26	12/12/0023:26	EL04096A	EL04089A	VAL2339	12/07/00	12/07/00

SURR : Bromofluorobenzene (W)65-135 (S)60-140
PRL : Reporting Limit
E : Value exceed the upper level of the initial calibration
D : Value from dilution
* : Out of QC limit due to matrix interference

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
BATCH NO.: 00L083
METHOD: METHOD 5030B/M8015

MATRIX: WATER % MOISTURE: NA

DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK1W				
LAB SAMP ID:	VAL2339B	VAL2339L	VAL2339C		
LAB FILE ID:	EL04081A	EL04082A	EL04084A		
DATE EXTRACTED:	12/12/0012:47	12/12/0013:21	12/12/0014:48	DATE COLLECTED:	NA
DATE ANALYZED:	12/12/0012:47	12/12/0013:21	12/12/0014:48	DATE RECEIVED:	12/12/00
PREP. BATCH:	VAL2339	VAL2339	VAL2339		
CALIB. REF:	EL04077A	EL04077A	EL04077A		

ACCESSION:

PARAMETER	BLNK RSLT (mg/L)	SPIKE AMT (mg/L)	BS RSLT (mg/L)	BS % REC	SPIKE AMT (mg/L)	BSD RSLT (mg/L)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
Gasoline	ND	.55	.549	100	.55	.564	102	3	67-136	30

SURROGATE PARAMETER	SPIKE AMT (mg/L)	BS RSLT (mg/L)	BS % REC	SPIKE AMT (mg/L)	BSD RSLT (mg/L)	BSD % REC	QC LIMIT (%)
Bromofluorobenzene	.02	.0199	100	.02	.0214	107	65-135

METHOD 5030A/8260A
VOLATILE ORGANICS BY GC/MS

Client	: IT CORPORATION	Date Collected:	12/07/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	12/07/00
Batch No.	: 00L083	Date Extracted:	12/12/00 19:34
Sample ID:	18609-3719	Date Analyzed:	12/12/00 19:34
Lab Samp ID:	L083-01	Dilution Factor:	1
Lab File ID:	RLP171	Matrix :	WATER
Ext Btch ID:	VOL1402	% Moisture :	NA
Calib. Ref.:	RLP159	Instrument ID :	T-002

PARAMETERS	RESULTS (ug/L)	PRL (ug/L)	MDL (ug/L)
1,1,1-TRICHLOROETHANE	ND	5	.91
1,1,2,2-TETRACHLOROETHANE	ND	5	1.1
1,1,2-TRICHLOROETHANE	ND	5	.83
1,1-DICHLOROETHANE	ND	5	.65
1,1-DICHLOROETHENE	ND	5	.86
1,2-DICHLOROETHANE	ND	5	.95
1,2-DICHLOROPROPANE	ND	5	.73
2-BUTANONE	ND	50	6.7
2-CHLOROETHYLVINYLETHER	ND	50	1.3
2-HEXANONE	ND	50	5.6
4-METHYL-2-PENTANONE	ND	50	3.6
ACETONE	ND	50	9.6
BENZENE	ND	5	.77
BROMODICHLOROMETHANE	ND	5	.82
BROMOFORM	ND	5	.74
BROMOMETHANE	ND	5	1.9
CARBON DISULFIDE	ND	5	.61
CARBON TETRACHLORIDE	ND	5	.83
CHLOROBENZENE	ND	5	1.1
CHLOROETHANE	ND	5	1.7
CHLOROFORM	ND	5	.67
CHLOROMETHANE	ND	5	.67
CIS-1,2-DICHLOROETHENE	ND	5	.79
CIS-1,3-DICHLOROPROPENE	ND	5	.79
DIBROMOCHLOROMETHANE	ND	5	.71
ETHYLBENZENE	ND	5	1
MTBE	ND	10	.77
METHYLENE CHLORIDE	ND	5	1.4
STYRENE	ND	5	.87
TETRACHLOROETHENE	ND	5	1.1
TOLUENE	ND	5	.99
TRANS-1,2-DICHLOROETHENE	ND	5	.73
TRANS-1,3-DICHLOROPROPENE	ND	5	.82
TRICHLOROETHENE	ND	5	.89
VINYL ACETATE	ND	50	1.4
VINYL CHLORIDE	ND	5	2.5
XYLENES	ND	5	3.1

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	101	62-139
BROMOFLUOROBENZENE	104	75-125
TOLUENE-D8	99	75-125

PRL: Project Reporting Limit
* : Out side of QC Limit
J : An estimated value between PRL and MDL
E : Value exceed the upper level of the initial calibration
B : Found in the associated blank
D : Value from dilution analysis

METHOD 5030A/8260A
VOLATILE ORGANICS BY GC/MS

Client	: IT CORPORATION	Date Collected:	12/07/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	12/07/00
Batch No.	: 00L083	Date Extracted:	12/12/00 20:08
Sample ID:	18609-3720	Date Analyzed:	12/12/00 20:08
Lab Samp ID:	L083-02	Dilution Factor:	1
Lab File ID:	RLP172	Matrix :	WATER
Ext Btch ID:	VOL1402	% Moisture :	NA
Calib. Ref.:	RLP159	Instrument ID :	T-002

PARAMETERS	RESULTS (ug/L)	PRL (ug/L)	MDL (ug/L)
1,1,1-TRICHLOROETHANE	ND	5	.91
1,1,2,2-TETRACHLOROETHANE	ND	5	1.1
1,1,2-TRICHLOROETHANE	ND	5	.83
1,1-DICHLOROETHANE	ND	5	.65
1,1-DICHLOROETHENE	ND	5	.86
1,2-DICHLOROETHANE	ND	5	.95
1,2-DICHLOROPROPANE	ND	5	.73
2-BUTANONE	ND	50	6.7
2-CHLOROETHYLVINYLETHER	ND	50	1.3
2-HEXANONE	ND	50	5.6
4-METHYL-2-PENTANONE	ND	50	3.6
ACETONE	ND	50	9.6
BENZENE	11	5	.77
BROMODICHLOROMETHANE	ND	5	.82
BROMOFORM	ND	5	.74
BROMOMETHANE	ND	5	1.9
CARBON DISULFIDE	ND	5	.61
CARBON TETRACHLORIDE	ND	5	.83
CHLOROBENZENE	ND	5	1.1
CHLOROETHANE	ND	5	1.7
CHLOROFORM	ND	5	.67
CHLOROMETHANE	ND	5	.67
CIS-1,2-DICHLOROETHENE	ND	5	.79
CIS-1,3-DICHLOROPROPENE	ND	5	.79
DIBROMOCHLOROMETHANE	ND	5	.71
ETHYLBENZENE	23	5	1
MTBE	ND	10	.77
METHYLENE CHLORIDE	ND	5	1.4
STYRENE	ND	5	.87
TETRACHLOROETHENE	ND	5	1.1
TOLUENE	ND	5	.99
TRANS-1,2-DICHLOROETHENE	ND	5	.73
TRANS-1,3-DICHLOROPROPENE	ND	5	.82
TRICHLOROETHENE	ND	5	.89
VINYL ACETATE	ND	50	1.4
VINYL CHLORIDE	ND	5	2.5
XYLENES	ND	5	3.1

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	106	62-139
BROMOFLUOROBENZENE	109	75-125
TOLUENE-D8	104	75-125

PRL: Project Reporting Limit
* : Out side of QC Limit
J : An estimated value between PRL and MDL
E : Value exceed the upper level of the initial calibration
B : Found in the associated blank
D : Value from dilution analysis

METHOD 5030A/8260A
VOLATILE ORGANICS BY GC/MS

nt	: IT CORPORATION	Date Collected:	12/07/00
ect	: MCAS EL TORO/18609/D.O. 70	Date Received:	12/07/00
atch No.	: 00L083	Date Extracted:	12/12/00 20:41
ample ID:	18609-3721	Date Analyzed:	12/12/00 20:41
ab Samp ID:	L083-03	Dilution Factor:	1
Lab File ID:	RLP173	Matrix :	WATER
Ext Btch ID:	VOL1402	% Moisture :	NA
alib. Ref.:	RLP159	Instrument ID :	T-002

PARAMETERS	RESULTS (ug/L)	PRL (ug/L)	MDL (ug/L)
,1,1-TRICHLOROETHANE	ND	5	.91
1,1,2,2-TETRACHLOROETHANE	ND	5	1.1
1,1,2-TRICHLOROETHANE	ND	5	.83
,1-DICHLOROETHANE	ND	5	.65
,1-DICHLOROETHENE	ND	5	.86
,2-DICHLOROETHANE	ND	5	.95
1,2-DICHLOROPROPANE	ND	5	.73
2-BUTANONE	ND	50	6.7
-CHLOROETHYLVINYLETHER	ND	50	1.3
-HEXANONE	ND	50	5.6
-METHYL-2-PENTANONE	ND	50	3.6
ACETONE	ND	50	9.6
BENZENE	ND	5	.77
ROMODICHLOROMETHANE	ND	5	.82
ROMOFORM	ND	5	.74
ROMOMETHANE	ND	5	1.9
CARBON DISU FIDE	ND	5	.61
CARBON TETRACHLORIDE	ND	5	.83
CHLOROBENZENE	ND	5	1.1
CHLOROETHANE	ND	5	1.7
CHLOROFORM	ND	5	.67
CHLOROMETHANE	ND	5	.67
S-1,2-DICHLOROETHENE	ND	5	.79
-1,3-DICHLOROPROPENE	ND	5	.79
ROMOCHLOROMETHANE	ND	5	.71
ETHYLBENZENE	23	5	1
MTBE	ND	10	.77
METHYLENE CHLORIDE	ND	5	1.4
STYRENE	ND	5	.87
TETRACHLOROETHENE	ND	5	1.1
TOLUENE	ND	5	.99
TRANS-1,2-DICHLOROETHENE	ND	5	.73
TRANS-1,3-DICHLOROPROPENE	ND	5	.82
TRICHLOROETHENE	ND	5	.89
VINYL ACETATE	ND	50	1.4
VINYL CHLORIDE	ND	5	2.5
XYLENES	ND	5	3.1

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	104	62-139
BROMOFLUOROBENZENE	108	75-125
TOLUENE-D8	102	75-125

PRL: Project Reporting Limit
* : Out side of QC Limit
J : An estimated value between PRL and MDL
E : Value exceed the upper level of the initial calibration
B : Found in the associated blank
D : Value from dilution analysis

METHOD 5030A/8260A
VOLATILE ORGANICS BY GC/MS

Client	: IT CORPORATION	Date Collected:	12/07/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	12/07/00
Batch No.	: 00L083	Date Extracted:	12/12/00 21:15
Sample ID:	18609-3722	Date Analyzed:	12/12/00 21:15
Lab Samp ID:	L083-04	Dilution Factor:	1
Lab File ID:	RLP174	Matrix :	WATER
Ext Btch ID:	VOL1402	% Moisture :	NA
Calib. Ref.:	RLP159	Instrument ID :	T-002

PARAMETERS	RESULTS (ug/L)	PRL (ug/L)	MDL (ug/L)
1,1,1-TRICHLOROETHANE	ND	5	.91
1,1,2,2-TETRACHLOROETHANE	ND	5	1.1
1,1,2-TRICHLOROETHANE	ND	5	.83
1,1-DICHLOROETHANE	ND	5	.65
1,1-DICHLOROETHENE	ND	5	.86
1,2-DICHLOROETHANE	ND	5	.95
1,2-DICHLOROPROPANE	ND	5	.73
2-BUTANONE	ND	50	6.7
2-CHLOROETHYLVINYLETHER	ND	50	1.3
2-HEXANONE	ND	50	5.6
4-METHYL-2-PENTANONE	ND	50	3.6
ACETONE	ND	50	9.6
BENZENE	ND	5	.77
BROMODICHLOROMETHANE	ND	5	.82
BROMOFORM	ND	5	.74
BROMOMETHANE	ND	5	1.9
CARBON DISULFIDE	ND	5	.61
CARBON TETRACHLORIDE	ND	5	.83
CHLOROBENZENE	ND	5	1.1
CHLOROETHANE	ND	5	1.7
CHLOROFORM	ND	5	.67
CHLOROMETHANE	ND	5	.67
CIS-1,2-DICHLOROETHENE	ND	5	.79
CIS-1,3-DICHLOROPROPENE	ND	5	.79
DIBROMOCHLOROMETHANE	ND	5	.71
ETHYLBENZENE	ND	5	1
MTBE	ND	10	.77
METHYLENE CHLORIDE	6.4	5	1.4
STYRENE	ND	5	.87
TETRACHLOROETHENE	ND	5	1.1
TOLUENE	ND	5	.99
TRANS-1,2-DICHLOROETHENE	ND	5	.73
TRANS-1,3-DICHLOROPROPENE	ND	5	.82
TRICHLOROETHENE	ND	5	.89
VINYL ACETATE	ND	50	1.4
VINYL CHLORIDE	ND	5	2.5
XYLENES	ND	5	3.1

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	105	62-139
BROMOFLUOROBENZENE	108	75-125
TOLUENE-D8	102	75-125

PRL: Project Reporting Limit
* : Out side of QC Limit
J : An estimated value between PRL and MDL
E : Value exceed the upper level of the initial calibration
B : Found in the associated blank
D : Value from dilution analysis

METHOD 5030A/8260A
VOLATILE ORGANICS BY GC/MS

nt	: IT CORPORATION	Date Collected:	NA
ect	: MCAS EL TORO/18609/D.O. 70	Date Received:	12/12/00
atch No.	: 00L083	Date Extracted:	12/12/00 14:22
ample ID:	MBLK1W	Date Analyzed:	12/12/00 14:22
ab Samp ID:	VOL1402B	Dilution Factor:	1
Lab File ID:	RLP162	Matrix :	WATER
Ext Btch ID:	VOL1402	% Moisture :	NA
alib. Ref.:	RLP159	Instrument ID :	T-002

PARAMETERS	RESULTS (ug/L)	PRL (ug/L)	MDL (ug/L)
,1,1-TRICHLOROETHANE	ND	5	.91
1,1,2,2-TETRACHLOROETHANE	ND	5	1.1
1,1,2-TRICHLOROETHANE	ND	5	.83
,1-DICHLOROETHANE	ND	5	.65
,1-DICHLOROETHENE	ND	5	.86
,2-DICHLOROETHANE	ND	5	.95
1,2-DICHLOROPROPANE	ND	5	.73
2-BUTANONE	ND	50	6.7
-CHLOROETHYLVINYLETHER	ND	50	1.3
-HEXANONE	ND	50	5.6
-METHYL-2-PENTANONE	ND	50	3.6
ACETONE	ND	50	9.6
BENZENE	ND	5	.77
IROMODICHLOROMETHANE	ND	5	.82
ROMOFORM	ND	5	.74
BROMOMETHANE	ND	5	1.9
CARBON DISULFIDE	ND	5	.61
CARBON TETRACHLORIDE	ND	5	.83
CHLOROBENZENE	ND	5	1.1
CHLOROETHANE	ND	5	1.7
CHLOROFORM	ND	5	.67
CHLOROMETHANE	ND	5	.67
S-1,2-DICHLOROETHENE	ND	5	.79
-1,3-DICHLOROPROPENE	ND	5	.79
TBROMOCHLOROMETHANE	ND	5	.71
ETHYLBENZENE	ND	5	1
MTBE	ND	10	.77
METHYLENE CHLORIDE	ND	5	1.4
STYRENE	ND	5	.87
TETRACHLOROETHENE	ND	5	1.1
TOLUENE	ND	5	.99
TRANS-1,2-DICHLOROETHENE	ND	5	.73
TRANS-1,3-DICHLOROPROPENE	ND	5	.82
TRICHLOROETHENE	ND	5	.89
VINYL ACETATE	ND	50	1.4
VINYL CHLORIDE	ND	5	2.5
XYLENES	ND	5	3.1

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	100	62-139
BROMOFLUOROBENZENE	104	75-125
TOLUENE-D8	100	75-125

PRL: Project Reporting Limit
* : Out side of QC Limit
J : An estimated value between PRL and MDL
E : Value exceed the upper level of the initial calibration
B : Found in the associated blank
D : Value from dilution analysis

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
BATCH NO.: 00L083
METHOD: METHOD 5030A/8260A

MATRIX:	WATER			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK1W				
LAB SAMP ID:	VOL1402B	VOL1402L	VOL1402C		
LAB FILE ID:	RLP162	RLP160	RLP161		
DATE EXTRACTED:	12/12/0014:22	12/12/0013:14	12/12/0013:49	DATE COLLECTED:	NA
DATE ANALYZED:	12/12/0014:22	12/12/0013:14	12/12/0013:49	DATE RECEIVED:	12/12/00
PREP. BATCH:	VOL1402	VOL1402	VOL1402		
CALIB. REF:	RLP159	RLP159	RLP159		

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
1,1-Dichloroethene	ND	20	19.5	97	20	18.7	93	4	75-125	20
Benzene	ND	20	20	100	20	19.4	97	3	75-125	20
Chlorobenzene	ND	20	19.7	98	20	19.5	98	1	75-125	20
Toluene	ND	20	19.6	98	20	19.5	97	1	74-125	20
Trichloroethene	ND	20	19.4	97	20	19	95	3	71-125	20

SURROGATE PARAMETER	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	QC LIMIT (%)
1,2-Dichlorethane-d4	50	49.4	99	50	51.9	104	62-139
Bromofluorobenzene	50	53.2	106	50	54.1	108	75-125
Toluene-d8	50	51	102	50	52.4	105	75-125

METHOD 300.0
NITRATE/NITRITE-N

Client : IT CORPORATION
Project : MCAS EL TORO/18609/D.O. 70
Batch No. : 00L083

Matrix : WATER
Instrument ID : TI006

SAMPLE ID	EMAX SAMPLE ID	RESULTS (mg/L)	DLF	MOIST	RL (mg/L)	MDL (mg/L)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1W	ICL028WB	ND	1	NA	.1	.0206	12/14/0008:55	NA	AL13057A	AL13055A	ICL028W	NA	NA
LCS1W	ICL028WL	4.06	1	NA	.1	.0206	12/14/0009:12	NA	AL13058A	AL13055A	ICL028W	NA	NA
LCD1W	ICL028WC	4.07	1	NA	.1	.0206	12/14/0009:29	NA	AL13059A	AL13055A	ICL028W	NA	NA
18609-3720	L083-02	6.44	10	NA	1	.206	12/14/0010:20	NA	AL13062A	AL13055A	ICL028W	12/07/00	12/07/00
18609-3721	L083-03	5.39	10	NA	1	.206	12/14/0010:37	NA	AL13063A	AL13055A	ICL028W	12/07/00	12/07/00
18609-3722	L083-04	3.76	10	NA	1	.206	12/14/0010:54	NA	AL13064A	AL13055A	ICL028W	12/07/00	12/07/00
18609-3722DUP	L083-04D	2.04	10	NA	1	.206	12/14/0011:11	NA	AL13065A	AL13055A	ICL028W	12/07/00	12/07/00
18609-3722MS	L083-04M	22.0	10	NA	1	.206	12/14/0011:28	NA	AL13066A	AL13055A	ICL028W	12/07/00	12/07/00

RL: Reporting Limit

METHOD 300.0
ORTHOPHOSPHATE-P

Client : IT CORPORATION
Project : MCAS EL TORO/18609/D.O. 70
Batch No. : 00L083

Matrix : WATER
Instrument ID : TI006

SAMPLE ID	EMAX SAMPLE ID	RESULTS (mg/L)	DLF	MOIST	RL (mg/L)	MDL (mg/L)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1W	ICL027WB	ND	1	NA	.5	.0322	12/14/0002:06	NA	AL13033A	AL13031A	ICL027W	NA	NA
LCS1W	ICL027WL	2.04	1	NA	.5	.0322	12/14/0002:23	NA	AL13034A	AL13031A	ICL027W	NA	NA
LCD1W	ICL027WC	2.05	1	NA	.5	.0322	12/14/0002:40	NA	AL13035A	AL13031A	ICL027W	NA	NA
18609-3720	L083-02	ND	1	NA	.5	.0322	12/14/0004:39	NA	AL13042A	AL13031A	ICL027W	12/07/00	12/07/00
18609-3721	L083-03	1.84	1	NA	.5	.0322	12/14/0005:30	NA	AL13045A	AL13043A	ICL027W	12/07/00	12/07/00
18609-3722	L083-04	.299J	1	NA	.5	.0322	12/14/0005:47	NA	AL13046A	AL13043A	ICL027W	12/07/00	12/07/00
18609-3722DUP	L083-04D	.308J	1	NA	.5	.0322	12/14/0006:05	NA	AL13047A	AL13043A	ICL027W	12/07/00	12/07/00
18609-3722MS	L083-04M	1.97	1	NA	.5	.0322	12/14/0006:22	NA	AL13048A	AL13043A	ICL027W	12/07/00	12/07/00

RL : Reporting Limit

3004

METHOD 300.0
SULFATE

Client : IT CORPORATION
Project : MCAS EL TORO/18609/D.O. 70
Batch No. : 00L083

Matrix : WATER
Instrument ID : TI006

SAMPLE ID	EMAX SAMPLE ID	RESULTS (mg/L)	DLF	MOIST	RL (mg/L)	MDL (mg/L)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1W	ICL027WB	ND	1	NA	.5	.101	12/14/0002:06	NA	AL13033A	AL13031A	ICL027W	NA	NA
LCS1W	ICL027WL	20	1	NA	.5	.101	12/14/0002:23	NA	AL13034A	AL13031A	ICL027W	NA	NA
LCD1W	ICL027WC	20.1	1	NA	.5	.101	12/14/0002:40	NA	AL13035A	AL13031A	ICL027W	NA	NA
18609-3720	L083-02	29.5	1	NA	.5	.101	12/14/0004:39	NA	AL13042A	AL13031A	ICL027W	12/07/00	12/07/00
18609-3722	L083-04	3.89	1	NA	.5	.101	12/14/0005:47	NA	AL13046A	AL13043A	ICL027W	12/07/00	12/07/00
18609-3722DUP	L083-04D	3.91	1	NA	.5	.101	12/14/0006:05	NA	AL13047A	AL13043A	ICL027W	12/07/00	12/07/00
18609-3722MS	L083-04M	8.27	1	NA	.5	.101	12/14/0006:22	NA	AL13048A	AL13043A	ICL027W	12/07/00	12/07/00
18609-3721	L083-03	72.5	25	NA	12.5	2.53	12/14/0007:30	NA	AL13052A	AL13043A	ICL027W	12/07/00	12/07/00

RL : Reporting Limit

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

IENT: IT CORPORATION
OJECT: MCAS EL TORO/18609/D.O. 70
TCH NO.: 00L083
THOD: METHOD 300.0

TRIX:	WATER			% MOISTURE:	NA
LUTION FACTOR:	1	1	1		
MPLE ID:	MBLK1W				
B SAMP ID:	ICL028WB	ICL028WL	ICL028WC		
B FILE ID:	AL13057A	AL13058A	AL13059A		
TE EXTRACTED:	NA	NA	NA	DATE COLLECTED:	NA
TE ANALYZED:	12/14/0008:55	12/14/0009:12	12/14/0009:29	DATE RECEIVED:	NA
EP. BATCH:	ICL028W	ICL028W	ICL028W		
LIB. REF:	AL13055A	AL13055A	AL13055A		

CESSION:

RAMETER	BLNK RSLT (mg/L)	SPIKE AMT (mg/L)	BS RSLT (mg/L)	BS % REC	SPIKE AMT (mg/L)	BSD RSLT (mg/L)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
trate/Nitrite-N	ND	4	4.06	102	4	4.07	102	0	80-120	20

3007

EMAX QUALITY CONTROL DATA
MS ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
BATCH NO.: 00L083
METHOD: METHOD 300.0

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MATRIX:	WATER		% MOISTURE:	NA
DILUTION FACTOR:	10	10		
SAMPLE ID:	18609-3722			
LAB SAMP ID:	L083-04	L083-04M		
LAB FILE ID:	AL13064A	AL13066A		
DATE EXTRACTED:	NA	NA	DATE COLLECTED:	12/07/00
DATE ANALYZED:	12/14/0010:54	12/14/0011:28	DATE RECEIVED:	12/07/00
PREP. BATCH:	ICL028W	ICL028W		
CALIB. REF:	AL13055A	AL13055A		

ACCESSION:

PARAMETER	SMPL RSLT (mg/L)	SPIKE AMT (mg/L)	MS RSLT (mg/L)	MS % REC	QC LIMIT (%)
Nitrate/Nitrite-N	3.76	20	22.0	91	80-120

3008

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
BATCH NO.: 00L083
METHOD: METHOD 300.0

MATRIX:	WATER			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK1W				
LAB SAMP ID:	ICL027WB	ICL027WL	ICL027WC		
LAB FILE ID:	AL13033A	AL13034A	AL13035A		
DATE EXTRACTED:	NA	NA	NA	DATE COLLECTED:	NA
DATE ANALYZED:	12/14/0002:06	12/14/0002:23	12/14/0002:40	DATE RECEIVED:	NA
PREP. BATCH:	ICL027W	ICL027W	ICL027W		
CALIB. REF:	AL13031A	AL13031A	AL13031A		

ACCESSION:

PARAMETER	BLNK RSLT (mg/L)	SPIKE AMT (mg/L)	BS RSLT (mg/L)	BS % REC	SPIKE AMT (mg/L)	BSD RSLT (mg/L)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
Orthophosphate-P	ND	2	2.04	102	2	2.05	102	0	80-120	20

0108

EMAX QUALITY CONTROL DATA
MS ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
BATCH NO.: 00L083
METHOD: METHOD 300.0

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MATRIX:	WATER		% MOISTURE:	NA
DILUTION FACTOR:	1	1		
SAMPLE ID:	18609-3722			
LAB SAMP ID:	L083-04	L083-04M		
LAB FILE ID:	AL13046A	AL13048A		
DATE EXTRACTED:	NA	NA	DATE COLLECTED:	12/07/00
DATE ANALYZED:	12/14/0005:47	12/14/0006:22	DATE RECEIVED:	12/07/00
PREP. BATCH:	ICL027W	ICL027W		
CALIB. REF:	AL13043A	AL13043A		

ACCESSION:

PARAMETER	SMPL RSLT (mg/L)	SPIKE AMT (mg/L)	MS RSLT (mg/L)	MS % REC	QC LIMIT (%)
Orthophosphate-P	.299J	2	1.97	83	80-120

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
BATCH NO.: 00L083
METHOD: METHOD 300.0

MATRIX:	WATER			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK1W				
LAB SAMP ID:	ICL027WB	ICL027WL	ICL027WC		
LAB FILE ID:	AL13033A	AL13034A	AL13035A		
DATE EXTRACTED:	NA	NA	NA	DATE COLLECTED:	NA
DATE ANALYZED:	12/14/0002:06	12/14/0002:23	12/14/0002:40	DATE RECEIVED:	NA
PREP. BATCH:	ICL027W	ICL027W	ICL027W		
CALIB. REF:	AL13031A	AL13031A	AL13031A		

ACCESSION:

PARAMETER	BLNK RSLT (mg/L)	SPIKE AMT (mg/L)	BS RSLT (mg/L)	BS % REC	SPIKE AMT (mg/L)	BSD RSLT (mg/L)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
Sulfate	ND	20	20	100	20	20.1	100	0	80-120	20

0013

EMAX QUALITY CONTROL DATA
MS ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
BATCH NO.: 00L083
METHOD: METHOD 300.0

==========

MATRIX:	WATER		% MOISTURE:	NA
DILUTION FACTOR:	1	1		
SAMPLE ID:	18609-3722			
LAB SAMP ID:	L083-04	L083-04M		
LAB FILE ID:	AL13046A	AL13048A		
DATE EXTRACTED:	NA	NA	DATE COLLECTED:	12/07/00
DATE ANALYZED:	12/14/0005:47	12/14/0006:22	DATE RECEIVED:	12/07/00
PREP. BATCH:	ICL027W	ICL027W		
CALIB. REF:	AL13043A	AL13043A		

ACCESSION:

PARAMETER	SMPL RSLT (mg/L)	SPIKE AMT (mg/L)	MS RSLT (mg/L)	MS % REC	QC LIMIT (%)
Sulfate	3.89	5	8.27	88	80-120

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: MCAS El Toro

Collection Date: December 7, 2000

LDC Report Date: January 4, 2001

Matrix: Water

Parameters: Total Petroleum Hydrocarbons as Extractables

Validation Level: NFESC Level C

Laboratory: EMAX Laboratories, Inc.

Sample Delivery Group (SDG): 00L083

Sample Identification

18609-3720
18609-3721
18609-3722

Introduction

This data review covers 3 water samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8015 modified for Total Petroleum Hydrocarbons (TPH) as Extractables.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (October 1999) as there are no current guidelines for the method stated above.

A table summarizing all data qualification is provided at the end of this report. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Blank results are summarized in Section III.

Field duplicates are summarized in Section IX.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Calibration

a. Initial Calibration

Initial calibration of compounds was performed as required by the method.

The percent relative standard deviations (%RSD) of calibration factors for compounds were less than or equal to 20.0% .

b. Calibration Verification

Calibration verification was performed at required frequencies. The percent differences (%D) of amounts in continuing standard mixtures were within the 15.0% QC limits.

III. Blanks

Method blanks were reviewed for each matrix as applicable. No total petroleum hydrocarbons as extractable contaminants were found in the method blanks.

IV. Accuracy and Precision Data

a. Surrogate Recovery

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

b. Matrix Spike/Matrix Spike Duplicates

The laboratory has indicated that there were no matrix spike (MS) and matrix spike duplicate (MSD) analyses specified for the samples in this SDG, and therefore matrix spike and matrix spike duplicate analyses were not performed for this SDG.

c. Laboratory Control Samples

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

V. Target Compound Identification

Raw data were not reviewed for this SDG.

VI. Compound Quantitation and CRQLs

Raw data were not reviewed for this SDG.

VII. System Performance

Raw data were not reviewed for this SDG.

VIII. Overall Assessment of Data

Data flags have been summarized at the end of this report.

IX. Field Duplicates

No field duplicates were identified in this SDG.

X. Field Blanks

No field blanks were identified in this SDG.

MCAS El Toro
Total Petroleum Hydrocarbons as Extractables - Data Qualification Summary - SDG 00L083

No Sample Data Qualified in this SDG

MCAS El Toro
Total Petroleum Hydrocarbons as Extractables - Laboratory Blank Data Qualification Summary - SDG 00L083

No Sample Data Qualified in this SDG

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: MCAS El Toro

Collection Date: December 7, 2000

LDC Report Date: January 4, 2001

Matrix: Water

Parameters: Total Petroleum Hydrocarbons as Gasoline

Validation Level: NFESC Level C

Laboratory: EMAX Laboratories, Inc.

Sample Delivery Group (SDG): 00L083

Sample Identification

18609-3719
18609-3720
18609-3721
18609-3722

Introduction

This data review covers 4 water samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8015 modified for Total Petroleum Hydrocarbons (TPH) as Gasoline.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (October 1999) as there are no current guidelines for the method stated above.

A table summarizing all data qualification is provided at the end of this report. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Blank results are summarized in Section III.

Field duplicates are summarized in Section IX.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Calibration

a. Initial Calibration

Initial calibration of compounds was performed as required by the method.

The percent relative standard deviations (%RSD) of calibration factors for compounds were less than or equal to 20.0% .

b. Calibration Verification

Calibration verification was performed at required frequencies. The percent differences (%D) of amounts in continuing standard mixtures were within the 15.0% QC limits.

III. Blanks

Method blanks were reviewed for each matrix as applicable. No total petroleum hydrocarbons as gasoline contaminants were found in the method blanks.

IV. Accuracy and Precision Data

a. Surrogate Recovery

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits with the following exceptions:

Sample	Surrogate	%R (Limits)	Compound	Flag	A or P
18609-3720	Bromofluorobenzene	163 (65-135)	TPH as gasoline	J (all detects)	P
18609-3721	Bromofluorobenzene	169 (65-135)	TPH as gasoline	J (all detects)	P

b. Matrix Spike/Matrix Spike Duplicates

The laboratory has indicated that there were no matrix spike (MS) and matrix spike duplicate (MSD) analyses specified for the samples in this SDG, and therefore matrix spike and matrix spike duplicate analyses were not performed for this SDG.

c. Laboratory Control Samples

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

V. Target Compound Identification

Raw data were not reviewed for this SDG.

VI. Compound Quantitation and CRQLs

Raw data were not reviewed for this SDG.

VII. System Performance

Raw data were not reviewed for this SDG.

VIII. Overall Assessment of Data

Data flags have been summarized at the end of this report.

IX. Field Duplicates

No field duplicates were identified in this SDG.

X. Field Blanks

Sample 18609-3719 was identified as a trip blank. No total petroleum hydrocarbons as gasoline contaminants were found in this blank.

MCAS El Toro
Total Petroleum Hydrocarbons as Gasoline - Data Qualification Summary - SDG 00L083

SDG	Sample	Compound	Flag	A or P	Reason
00L083	18609-3720 18609-3721	TPH as gasoline	J (all detects)	P	Surrogate recovery (%R)

MCAS El Toro
Total Petroleum Hydrocarbons as Gasoline - Laboratory Blank Data Qualification Summary - SDG 00L083

No Sample Data Qualified in this SDG

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: MCAS El Toro

Collection Date: December 7, 2000

LDC Report Date: December 29, 2000

Matrix: Water

Parameters: Volatiles

Validation Level: NFESC Level C

Laboratory: EMAX Laboratories, Inc.

Sample Delivery Group (SDG): 00L083

Sample Identification

18609-3719
18609-3720
18609-3721
18609-3722

Introduction

This data review covers 4 water samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8260A for Volatiles.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (October 1999) as there are no current guidelines for the method stated above.

A table summarizing all data qualification is provided at the end of this report. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Blank results are summarized in Section V.

Field duplicates are summarized in Section XVI.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. GC/MS Instrument Performance Check

Instrument performance was checked at 12 hour intervals.

All ion abundance requirements were met.

III. Initial Calibration

Initial calibration was performed using required standard concentrations.

Percent relative standard deviations (%RSD) were less than or equal to 30.0% for all calibration check compounds and less than or equal to 50.0% for all other compounds.

Average relative response factors (RRF) for all volatile target compounds and system performance check compounds (SPCCs) were within method and validation criteria with the following exceptions:

Date	Compound	RRF (Limits)	Associated Samples	Flag	A or P
11/17/00	Acetone	0.04427 (≥0.05)	All samples in SDG 00L083	J (all detects) R (all non-detects)	A

IV. Continuing Calibration

Continuing calibration was performed at the required frequencies.

All of the continuing calibration percent differences (%D) between the initial calibration RRF and the continuing calibration RRF were less than or equal to 25.0% for all calibration check compounds and less than or equal to 50.0% for all other compounds.

All of the continuing calibration RRF values were within method and validation criteria with the following exceptions:

Date	Compound	RRF (Limits)	Associated Samples	Flag	A or P
12/12/00	Acetone	0.04241 (≥0.05)	All samples in SDG 00L083	J (all detects) R (all non-detects)	A

V. Blanks

Method blanks were reviewed for each matrix as applicable. No volatile contaminants were found in the method blanks.

VI. Surrogate Spikes

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

VII. Matrix Spike/Matrix Spike Duplicates

The laboratory has indicated that there were no matrix spike (MS) and matrix spike duplicate (MSD) analyses specified for the samples in this SDG, and therefore matrix spike and matrix spike duplicate analyses were not performed for this SDG.

VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

IX. Regional Quality Assurance and Quality Control

Not applicable.

X. Internal Standards

All internal standard areas and retention times were within QC limits.

XI. Target Compound Identifications

Raw data were not reviewed for this SDG.

XII. Compound Quantitation and CRQLs

Raw data were not reviewed for this SDG.

XIII. Tentatively Identified Compounds (TICs)

Raw data were not reviewed for this SDG.

XIV. System Performance

Raw data were not reviewed for this SDG.

XV. Overall Assessment of Data

Data flags have been summarized at the end of the report.

XVI. Field Duplicates

No field duplicates were identified in this SDG.

XVII. Field Blanks

Sample 18609-3719 was identified as a trip blank. No volatile contaminants were found in this blank.

MCAS El Toro
Volatiles - Data Qualification Summary - SDG 00L083

SDG	Sample	Compound	Flag	A or P	Reason
00L083	18609-3719 18609-3720 18609-3721 18609-3722	Acetone	J (all detects) R (all non-detects)	A	Initial calibration (RRF)
00L083	18609-3719 18609-3720 18609-3721 18609-3722	Acetone	J (all detects) R (all non-detects)	A	Continuing calibration (RRF)

MCAS El Toro
Volatiles - Laboratory Blank Data Qualification Summary - SDG 00L083

No Sample Data Qualified in this SDG

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: MCAS El Toro

Collection Date: December 7, 2000

LDC Report Date: January 3, 2001

Matrix: Water

Parameters: Wet Chemistry

Validation Level: NFESC Level C

Laboratory: EMAX Laboratories, Inc.

Sample Delivery Group (SDG): 00L083

Sample Identification

18609-3720
18609-3721
18609-3722
18609-3720DUP
18609-3722MS
18609-3722MSD
18609-3722DUP

Introduction

This data review covers 7 water samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA Method 120.1 for Conductivity, EPA Method 160.1 for Total Dissolved Solids, EPA Method 300.0 for Nitrate/Nitrite as Nitrogen, Sulfate, and Orthophosphate, EPA Method 310.1 for Alkalinity, and EPA Method 351.3 for Total Kjeldahl Nitrogen.

The review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review (February 1994) as there are no current guidelines for the methods stated above.

A table summarizing all data qualification is provided at the end of this report. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Blank results are summarized in Section III.

Field duplicates are summarized in Section VII.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met with the following exceptions:

Sample	Analyte	Total Time From Sample Collection Until Analysis	Required Holding Time From Sample Collection Until Analysis	Flag	A or P
18609-3720 18609-3721 18609-3722 18609-3722MS 18609-3722DUP	Orthophosphate	7 days	48 hours	J (all detects) R (all non-detects)	P

Non-detected sample concentrations were qualified as unusable (R) due to a gross exceedance (>2X) of holding time.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Calibration

a. Initial Calibration

All criteria for the initial calibration of each method were met with the following exceptions:

Sample	Analyte	Finding	Criteria	Flag	A or P
All samples in SDG 00L083	Sulfate Nitrate/Nitrite as N Orthophosphate Total kjeldahl nitrogen	A blank was not used to establish the calibration curve.	A blank must be used to establish the calibration curve.	None None None None	P

b. Calibration Verification

Calibration verification frequency and analysis criteria were met for each method when applicable.

III. Blanks

Method blanks were reviewed for each matrix as applicable. No contaminant concentrations were found in the method blanks.

IV. Accuracy and Precision Data

a. Matrix Spike/(Matrix Spike) Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

Duplicate (DUP) sample analyses were reviewed for each matrix as applicable. Relative percent differences (RPD) were within QC limits with the following exceptions:

DUP ID (Associated Samples)	Analyte	RPD (Limits)	Flag	A or P
18609-3722DUP (All samples in SDG 00L083)	Nitrate/Nitrite as N	46 (≤20)	J (all detects) UJ (all non-detects)	A

b. Laboratory Control Samples

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

V. Sample Result Verification

Raw data were not reviewed for this SDG.

VI. Overall Assessment of Data

Data flags are summarized at the end of this report.

VII. Field Duplicates

No field duplicates were identified in this SDG.

VIII. Field Blanks

No field blanks were identified in this SDG.

MCAS El Toro
Wet Chemistry - Data Qualification Summary - SDG 00L083

SDG	Sample	Analyte	Flag	A or P	Reason
00L083	18609-3720 18609-3721 18609-3722	Orthophosphate	J (all detects) R (all non-detects)	P	Technical holding times
00L083	18609-3720 18609-3721 18609-3722	Nitrate/Nitrite as N Sulfate Orthophosphate Total kjeldahl nitrogen	None None None None	P	Initial calibration
00L083	18609-3720 18609-3721 18609-3722	Nitrate/Nitrite as N	J (all detects) UJ (all non-detects)	A	Duplicate sample analysis (RPD)

MCAS El Toro
Wet Chemistry - Laboratory Blank Data Qualification Summary - SDG 00L083

No Sample Data Qualified in this SDG

Continue

COMPLETED SW 12/14/00 Mag 12/15/00

OHM Remediation Services Corp.
Subsidiary of OHM Corporation
U.S. Route 224 East • Findlay, Ohio 45840 • (419) 423-3526

CHAIN-OF-CUSTODY RECORD

TF2-MW-01
GW Sampling

PROJECT DATA MANAGER'S COPY
216006
FORM 0019 REV. 2-97

OHM's LAB COORDINATOR: M. Gonzalez	LAB COORDINATOR'S PHONE: 949-660-7550	LAB COORDINATOR'S FAX: 949-475-5433	LABORATORY SERVICE ID: 00L109	LABORATORY CONTACT: EMAX	MAIL REPORT (COMPANY NAME): IT Corp
PROJECT NAME: GW Sampling	PROJECT LOCATION: MCAS El Toro, CA	PROJECT NUMBER: 18604	LABORATORY PHONE: 310-618-8889	LABORATORY FAX: 310-618-0818	RECIPIENT NAME: Dwayne Ishida
PROJECT CONTACT: M. Gonzalez	PROJECT PHONE NUMBER: 949-451-1666	PROJECT FAX: 949-451-1672	LABORATORY ADDRESS: 630 Maple Ave		ADDRESS: 3347 Michelson #200
PROJECT ADDRESS: MCAS Bldg. 311 El Toro	CITY, STATE AND ZIPCODE: Santa Ana, CA 92908	CLIENT: SWDIV	CITY, STATE AND ZIPCODE: Torrance, CA		CITY, STATE, AND ZIPCODE: Irvine, CA 92612
PROJECT MANAGER: D. Rawal	PROJECT MANAGER'S PHONE: 949-660-7576	PROJECT MANAGER'S FAX: 949-474-8309			

Sample Identifier	Matrix	Date (2000)	Time (2000 eg)	Preserved	# of Cont.	QC Level	T.A.T.	Analyses: 8260	TPH-gas	TPH-Diesel	TPH-Motor					Comments
18604-3723	W	12/8	1045	—	8	3	5 day	X	X	X	X					
18604-3724	↓	↓	1050	↓	7	↓	↓	X	X	X	X					
18604-3725	↓	↓	1200 ~~0800~~ Mag	↓	6	↓	↓	X	X	X	X					
18604-3726	↓	↓	~~1200~~ 1230 0800 Mag	↓	3	↓	↓	X	X							

W.J. 12/18/00

SAMPLES COLLECTED BY: [illegible]	COURIER AND AIR BILL NUMBER: Courier			COOLER TEMPERATURE UPON RECEIPT:
RELINQUISHED BY	RECEIVED BY	DATE	TIME	SAMPLE'S CONDITION UPON RECEIPT
[illegible]	[illegible]	[illegible]		

Distribution: White - Laboratory (To be returned with Analytical Report); Goldenrod - Project File; Yellow - Project Data Manager

Project Information Section For Project Personnel Only Do Not Submit to Laboratory

TF2-MW-01

Sample Point Location	G	C	F	QC
(1) TF2-MW-01	X			
(2) TF2-MW-01 (Dup)	X			X
(3) ~~Trip Blank~~ Equipment rinsate	X			X
(4) Trip Blank	X			X

Comments
ave 12/18/00 rec'd 12/18/00

Sample Type: G - Grab, C - Composite, F - Field Sample, QC - Quality Control Sample

6289