Appendix E
Analytical Report of Soil Confirmatory Samples

Table E-1
Summary of Analytical Results — Soil Borings

Sample Identification		18609-3368	18609-3369	18609-3370	18609-3371	18609-3349	18609-3350	18609-3351
Location Code		398-SCB-01	398-SCB-01	398-SCB-01	398-SCB-01	398-SCB-02	398-SCB-02	398-SCB-02
Date Sampled		08/01/00	08/01/00	08/01/00	08/01/00	07/31/00	07/31/00	07/31/00
Depth (feet below ground surface)		5.0	10.0	20.0	40.0	5.0	10.0	30.0
	Unit							
CA LUFT 8015M								
TPH as Diesel	mg/kg	88	11 U	11 U	11 U	10 U	10 U	68 U
TPH as Gasoline	mg/kg	8.3	1.3	1.09 U	1.1	1.7	1.03 U	6100
TPH as JP-5	mg/kg	11 U	11 U	11 U	29	10 U	10 U	3500
EPA 1312/8015M								
TPH as Diesel	mg/L	NA	NA	NA	NA	NA	NA	NA
TPH as Gasoline	mg/L	NA	NA	NA	NA	NA	NA	NA
TPH as JP-5	mg/L	NA	NA	NA	NA	NA	NA	NA
EPA 1312/8020								
Benzene	µg/L	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	µg/L	NA	NA	NA	NA	NA	NA	NA
Toluene	µg/L	NA	NA	NA	NA	NA	NA	NA
Xylenes (total)	µg/L	NA	NA	NA	NA	NA	NA	NA
EPA 8260A								
	µg/kg	5.4 U	5.5 U	5.5 U	5.4 U	5.2 U	5.1 U	3400 U
Ethylbenzene	µg/kg	5.4 U	5.5 U	5.5 U	5.4 U	5.2 U	5.1 U	860 J
Methyl tert-butyl ether (MTBE)	µg/kg	11 U	11 U	11 U	11 U	10 U	10 U	6800 U
Toluene	µg/kg	5.4 U	5.5 U	5.5 U	5.4 U	5.2 U	5.1 U	3400 U
Trichloroethene	µg/kg	5.4 U	5.5 U	5.5 U	5.4 U	5.2 U	5.1 U	3400 U
Xylenes (total)	µg/kg	5.4 U	5.5 U	5.5 U	5.4 U	5.2 U	5.1 U	3400 U

Table E-1
Summary of Analytical Results — Soil Borings

Sample Identification		18609-3363	18609-3364	18609-3365	18609-3366 (Dup)	18609-3367	18609-3344	18609-3345
Location Code		398-SCB-03	398-SCB-03	398-SCB-03	398-SCB-03	398-SCB-03	398-SCB-10	398-SCB-10
Date Sampled		08/01/00	08/01/00	08/01/00	08/01/00	08/01/00	07/31/00	07/31/00
Depth (feet below ground surface)		5.0	10.0	30.0	29.5	40.0	5.0	10.0
	Unit							
CA LUFT 8015M								
TPH as Diesel	mg/kg	10 U	11 U	69 U	71 U	130 U	11 U	11 U
TPH as Gasoline	mg/kg	1.04 U	1.07 U	3200	3400	6900	1.08 U	1.13 U
TPH as JP-5	mg/kg	10 U	11 U	3300	3600	5300	11 U	11 U
EPA 1312/8015M								
TPH as Diesel	mg/L	NA	NA	NA	NA	NA	NA	NA
TPH as Gasoline	mg/L	NA	NA	NA	NA	NA	NA	NA
TPH as JP-5	mg/L	NA	NA	NA	NA	NA	NA	NA
EPA 1312/8020								
Benzene	µg/L	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	µg/L	NA	NA	NA	NA	NA	NA	NA
Toluene	µg/L	NA	NA	NA	NA	NA	NA	NA
Xylenes (total)	µg/L	NA	NA	NA	NA	NA	NA	NA
EPA 8260A								
	µg/kg	5.2 UJ	5.4 U	350 U	350 UJ	320 UJ	5.4 U	5.7 U
Ethylbenzene	µg/kg	5.2 UJ	5.4 U	200 J	680 J	610 J	5.4 U	5.7 U
Methyl tert-butyl ether (MTBE)	µg/kg	10 U	11 U	690 U	710 UJ	640 UJ	11 U	11 U
Toluene	µg/kg	5.2 UJ	5.4 U	350 U	350 UJ	320 UJ	5.4 U	5.7 U
Trichloroethene	µg/kg	5.2 UJ	5.4 U	350 U	350 UJ	320 UJ	5.4 U	5.7 U
Xylenes (total)	µg/kg	5.2 UJ	5.4 U	350 U	350 UJ	320 UJ	5.4 U	5.7 U

Table E-1
Summary of Analytical Results — Soil Borings

Sample Identification Location Code Date Sampled Depth (feet below ground surface)	Unit	18609-3346 398-SCB-10 07/31/00 20.0	18609-3347 398-SCB-10 07/31/00 40.0	18609-3348 (Dup) 398-SCB-10 07/31/00 39.5	18609-3357 398-SCB-11 07/31/00 5.0	18609-3358 398-SCB-11 07/31/00 10.0	18609-3359 398-SCB-11 07/31/00 20.0	18609-3360 398-SCB-11 07/31/00 40.0
CA LUFT 8015M								
TPH as Diesel	mg/kg	11 U	67 U	140 U	11 U	11 U	12 U	11 U
TPH as Gasoline	mg/kg	1.1 U	5600	8500	1.06 U	1.11 U	1.18 U	1.11 U
TPH as JP-5	mg/kg	11 U	4500	8000	11 U	11 U	12 U	11 U
EPA 1312/8015M								
TPH as Diesel	mg/L	NA	NA	NA	NA	NA	NA	NA
TPH as Gasoline	mg/L	NA	NA	NA	NA	NA	NA	NA
TPH as JP-5	mg/L	NA	NA	NA	NA	NA	NA	NA
EPA 1312/8020								
Benzene	µg/L	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	µg/L	NA	NA	NA	NA	NA	NA	NA
Toluene	µg/L	NA	NA	NA	NA	NA	NA	NA
Xylenes (total)	µg/L	NA	NA	NA	NA	NA	NA	NA
EPA 8260A								
	µg/kg	5.5 U	3400 U	3400 U	5.3 U	5.5 U	5.9 U	5.5 U
Ethylbenzene	µg/kg	5.5 U	770 J	4800	5.3 U	5.5 U	5.9 U	5.5 U
Methyl tert-butyl ether (MTBE)	µg/kg	11 U	6700 U	6900 U	11 U	11 U	12 U	11 U
Toluene	µg/kg	5.5 U	3400 U	3400 U	5.3 U	5.5 U	5.9 U	5.5 U
Trichloroethene	µg/kg	5.5 U	3400 U	3400 U	5.3 U	5.5 U	5.9 U	5.5 U
Xylenes (total)	µg/kg	5.5 U	3400 U	2600 J	5.3 U	5.5 U	5.9 U	5.5 U

Table E-1
Summary of Analytical Results — Soil Borings

Sample Identification		18609-3372	18609-3373	18609-3374	18609-3375	18609-3352	18609-3353	18609-3354
Location Code		398-SCB-27	398-SCB-27	398-SCB-27	398-SCB-27	398-SCB-28	398-SCB-28	398-SCB-28
Date Sampled		08/01/00	08/01/00	08/01/00	08/01/00	07/31/00	07/31/00	07/31/00
Depth (feet below ground surface)		5.0	10.0	20.0	40.0	5.0	10.5	20.0
	Unit							
CA LUFT 8015M								
TPH as Diesel	mg/kg	11 U	11 U	11 U	10 U	10 U	11 U	13 U
TPH as Gasoline	mg/kg	1.12 U	1.08 U	1.08 U	1.04 U	1.02 U	1.07 U	1300
TPH as JP-5	mg/kg	11 U	11 U	11 U	10 U	10 U	11 U	3400
EPA 1312/8015M								
TPH as Diesel	mg/L	NA	NA	NA	NA	NA	NA	NA
TPH as Gasoline	mg/L	NA	NA	NA	NA	NA	NA	NA
TPH as JP-5	mg/L	NA	NA	NA	NA	NA	NA	NA
EPA 1312/8020								
Benzene	µg/L	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	µg/L	NA	NA	NA	NA	NA	NA	NA
Toluene	µg/L	NA	NA	NA	NA	NA	NA	NA
Xylenes (total)	µg/L	NA	NA	NA	NA	NA	NA	NA
EPA 8260A								
	µg/kg	5.6 U	5.4 U	5.4 U	5.2 U	5.1 U	5.4 U	3300 U
Ethylbenzene	µg/kg	5.6 U	5.4 U	5.4 U	5.2 U	5.1 U	5.4 U	3300 U
Methyl tert-butyl ether (MTBE)	µg/kg	11 U	11 U	11 U	10 U	10 U	11 U	6600 U
Toluene	µg/kg	5.6 U	5.4 U	5.4 U	5.2 U	5.1 U	5.4 U	3300 U
Trichloroethene	µg/kg	5.6 U	5.4 U	5.4 U	5.2 U	5.1 U	5.4 U	3300 U
Xylenes (total)	µg/kg	5.6 U	5.4 U	5.4 U	5.2 U	5.1 U	5.4 U	3300 U

Table E-1
Summary of Analytical Results — Soil Borings

Sample Identification Location Code Date Sampled Depth (feet below ground surface)	Unit	18609-3355 398-SCB-28 07/31/00 30.0	18609-3356 (Dup) 398-SCB-28 07/31/00 29.5	18609-2642 CB-398-02 01/14/00 20.0	18609-2643 CB-398-02 01/14/00 39.5	18609-2644 (Dup) CB-398-02 01/14/00 40.0	18609-2645 CB-398-02 01/14/00 61.0	18609-2646 CB-398-02 01/14/00 104.5
CA LUFT 8015M								
TPH as Diesel	mg/kg	14 U	140 U	900	12000	3400	8700	17000
TPH as Gasoline	mg/kg	2000	7600	9	4400	7600	4600	8800
TPH as JP-5	mg/kg	910	6400	NA	NA	NA	NA	NA
EPA 1312/8015M								
TPH as Diesel	mg/L	NA	NA	NA	NA	29	NA	1.7
TPH as Gasoline	mg/L	NA	NA	NA	NA	NA	NA	NA
TPH as JP-5	mg/L	NA	NA	NA	NA	NA	NA	NA
EPA 1312/8020								
Benzene	µg/L	NA	NA	NA	.5 U	1.8	NA	1 U
Ethylbenzene	µg/L	NA	NA	NA	15	25	NA	97
Toluene	µg/L	NA	NA	NA	.5 U	.5 U	NA	1 U
Xylenes (total)	µg/L	NA	NA	NA	1.5 U	1.5 U	NA	8.5
EPA 8260A								
	µg/kg	3500 U	3500 U	7 U	680 U	1200 U	260 U	550 U
Ethylbenzene	µg/kg	3500 U	390 J	7 U	960	8000	260 U	7100
Methyl tert-butyl ether (MTBE)	µg/kg	7000 U	6900 U	14 U	1400 U	2400 U	520 U	1100 U
Toluene	µg/kg	3500 U	3500 U	7 U	680 U	1200 U	260 U	550 U
Trichloroethene	µg/kg	3500 U	3500 U	7 U	680 U	1200 U	260 U	550 U
Xylenes (total)	µg/kg	3500 U	3500 U	7 U	680 U	1200 U	260 U	12000

Table E-1
Summary of Analytical Results — Soil Borings

Sample Identification		18609-2648	18609-2649	18609-2650	18609-2651	18609-2652	18609-2680	18609-2682
Location Code		CB-398-02	CB-398-02	CB-398-02	CB-398-02	CB-398-02	CB-398-03	CB-398-03
Date Sampled		01/14/00	01/14/00	01/17/00	01/17/00	01/17/00	01/19/00	01/20/00
Depth (feet below ground surface)		125.0	149.5	169.5	185.0	189.0	49.5	69.5
	Unit							
CA LUFT 8015M								
TPH as Diesel	mg/kg	11000	11000	74000	1500 J	13000	5400	2000
TPH as Gasoline	mg/kg	12000	10000	1600	1500	4500	5100	2100
TPH as JP-5	mg/kg	NA	NA	NA	NA	NA	NA	NA
EPA 1312/8015M								
TPH as Diesel	mg/L	NA	3	440	NA	5.8	NA	NA
TPH as Gasoline	mg/L	NA	NA	NA	NA	2.7	NA	NA
TPH as JP-5	mg/L	NA	NA	NA	NA	NA	NA	NA
EPA 1312/8020								
Benzene	µg/L	1 U	.5 U	NA	NA	NA	NA	NA
Ethylbenzene	µg/L	95	2.2	NA	NA	NA	NA	NA
Toluene	µg/L	1 U	.5 U	NA	NA	NA	NA	NA
Xylenes (total)	µg/L	170	4.9	NA	NA	NA	NA	NA
EPA 8260A								
	µg/kg	2700 U	1100 U	1500 U	520 U	570 U	2900 U	5700 U
Ethylbenzene	µg/kg	14000	1100 U	1500 U	520 U	570 U	410 J	5700 U
Methyl tert-butyl ether (MTBE)	µg/kg	5400 U	2300 U	3000 U	1000 U	1100 U	5800 U	11000 U
Toluene	µg/kg	2700 U	1100 U	1500 U	520 U	570 U	2900 U	5700 U
Trichloroethene	µg/kg	2700 U	200 J	1500 U	520 U	570 U	2900 U	5700 U
Xylenes (total)	µg/kg	59000	1100 U	24000	520 U	1100	2000 J	5700 U

Table E-1
Summary of Analytical Results — Soil Borings

Sample Identification Location Code Date Sampled Depth (feet below ground surface)	Unit	18609-2683 CB-398-03 01/20/00 99.5	18609-2684 (Dup) CB-398-03 01/20/00 100.0	18609-2685 CB-398-03 01/20/00 139.5	18609-2686 CB-398-03 01/20/00 149.5	18609-2687 CB-398-03 01/20/00 189.0	18609-2669 CB-398-10 01/18/00 40.0	18609-2670 CB-398-10 01/18/00 79.5
CA LUFT 8015M								
TPH as Diesel	mg/kg	8800	10000	6600	9100	5000	15000	760
TPH as Gasoline	mg/kg	9900	7000	6500	3100	3900	8300	500
TPH as JP-5	mg/kg	NA	NA	NA	NA	NA	NA	NA
EPA 1312/8015M								
TPH as Diesel	mg/L	NA	37	7.3	3.8	4.3	NA	NA
TPH as Gasoline	mg/L	3.5	NA	3.2	2.9	2.9	NA	NA
TPH as JP-5	mg/L	NA	NA	NA	NA	NA	NA	NA
EPA 1312/8020								
Benzene	µg/L	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	µg/L	NA	NA	NA	NA	NA	NA	NA
Toluene	µg/L	NA	NA	NA	NA	NA	NA	NA
Xylenes (total)	µg/L	NA	NA	NA	NA	NA	NA	NA
EPA 8260A								
	µg/kg	5600 U	5700 U	5400 U	6400 U	5800 U	3100 U	1200 U
Ethylbenzene	µg/kg	5600 U	5700 U	5400 U	6400 U	5800 U	2000 J	1200 U
Methyl tert-butyl ether (MTBE)	µg/kg	11000 U	11000 U	11000 U	13000 U	12000 U	6200 U	2300 U
Toluene	µg/kg	5600 U	5700 U	5400 U	6400 U	5800 U	3100 U	1200 U
Trichloroethene	µg/kg	5600 U	5700 J	5400 U	6400 U	5800 U	3100 U	1200 U
Xylenes (total)	µg/kg	5600 U	5700 U	5400 U	6400 U	5800 U	1200 J	1200 U

Table E-1
Summary of Analytical Results — Soil Borings

Sample Identification		18609-2672	18609-2673	18609-2674 (Dup)	18609-2675	18609-2676	18609-2677	18609-2678
Location Code		CB-398-10	CB-398-10	CB-398-10	CB-398-10	CB-398-10	CB-398-10	CB-398-10
Date Sampled		01/19/00	01/19/00	01/19/00	01/19/00	01/19/00	01/19/00	01/19/00
Depth (feet below ground surface)		99.5	139.5	140.0	159.5	169.5	180.0	188.0
	Unit							
CA LUFT 8015M								
TPH as Diesel	mg/kg	4200	2700	4400	6300	6700	11000	2500
TPH as Gasoline	mg/kg	3500	1400	3900	5800	3800	9000	2400
TPH as JP-5	mg/kg	NA	NA	NA	NA	NA	NA	NA
EPA 1312/8015M								
TPH as Diesel	mg/L	NA	NA	NA	NA	NA	6.7	2.9
TPH as Gasoline	mg/L	NA	NA	NA	NA	NA	5.5	7
TPH as JP-5	mg/L	NA	NA	NA	NA	NA	NA	NA
EPA 1312/8020								
Benzene	µg/L	NA	NA	NA	NA	NA	1 U	46
Ethylbenzene	µg/L	NA	NA	NA	NA	NA	29	130
Toluene	µg/L	NA	NA	NA	NA	NA	1.1	7.5
Xylenes (total)	µg/L	NA	NA	NA	NA	NA	120	620
EPA 8260A								
	µg/kg	2700 U	2700 U	2800 U	3100 U	2600 U	2800 U	360 J
Ethylbenzene	µg/kg	2700 U	2700 U	2800 U	3100 U	2600 U	2800 J	4000
Methyl tert-butyl ether (MTBE)	µg/kg	5400 U	5400 U	5600 U	6300 U	5200 U	5600 U	6100 U
Toluene	µg/kg	2700 U	2700 U	2800 U	3100 U	2600 U	2800 U	3000 U
Trichloroethene	µg/kg	2700 U	2700 U	2800 U	3100 U	2600 U	2800 U	3000 U
Xylenes (total)	µg/kg	770 J	2200 J	1100 J	3100 U	800 J	11000	19000

Table E-1
Summary of Analytical Results — Soil Borings

Sample Identification Location Code Date Sampled Depth (feet below ground surface)	Unit	18609-2635 CB-398-11 01/13/00 140.0	18609-2636 CB-398-11 01/13/00 149.5	18609-2637 CB-398-11 01/13/00 160.0	18609-2638 CB-398-11 01/13/00 169.5	18609-2639 CB-398-11 01/13/00 179.5	18609-2654 CB-398-28 01/17/00 39.0	18609-2655 CB-398-28 01/17/00 69.0
CA LUFT 8015M								
TPH as Diesel	mg/kg	10.4 U	NA	280	NA	48	810	3000
TPH as Gasoline	mg/kg	1.04 U	3400 J	8.3	8700 J	2.2	110	1400 J
TPH as JP-5	mg/kg	NA	4800	NA	14000	NA	NA	NA
EPA 1312/8015M								
TPH as Diesel	mg/L	NA	NA	NA	NA	NA	NA	NA
TPH as Gasoline	mg/L	NA	2.9	NA	3.9	NA	NA	NA
TPH as JP-5	mg/L	NA	1.3	NA	2.4	NA	NA	NA
EPA 1312/8020								
Benzene	µg/L	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	µg/L	NA	NA	NA	NA	NA	NA	NA
Toluene	µg/L	NA	NA	NA	NA	NA	NA	NA
Xylenes (total)	µg/L	NA	NA	NA	37	NA	NA	NA
EPA 8260A								
	µg/kg	5.2 U	630 U	290 U	1200 U	5.4 U	590 U	560 U
Ethylbenzene	µg/kg	5.2 U	630 U	290 U	1200 U	5.4 U	2000	560 U
Methyl tert-butyl ether (MTBE)	µg/kg	10 U	1300 U	580 U	2400 U	11 U	1200 U	1100 U
Toluene	µg/kg	5.2 U	630 U	290 U	1200 U	5.4 U	590 U	560 U
Trichloroethene	µg/kg	5.2 U	630 U	290 U	1200 U	5.4 U	590 U	560 U
Xylenes (total)	µg/kg	5.2 U	620 J	290 U	5100	5.4 U	590 U	560 U

Table E-1
Summary of Analytical Results — Soil Borings

Sample Identification		18609-2656 (Dup)	18609-2657	18609-2658	18609-2661	18609-2662	18609-2663	18609-2664
Location Code		CB-398-28	CB-398-28	CB-398-28	CB-398-28	CB-398-28	CB-398-28	CB-398-28
Date Sampled		01/17/00	01/17/00	01/17/00	01/18/00	01/18/00	01/18/00	01/18/00
Depth (feet below ground surface)		70.5	89.0	109.0	129.5	139.5	149.5	160.0
	Unit							
CA LUFT 8015M								
TPH as Diesel	mg/kg	2800	1900	11000	14000	12000	5000	10000
TPH as Gasoline	mg/kg	2500	1200	9700	8200	13000	1700	7300
TPH as JP-5	mg/kg	NA	NA	NA	NA	NA	NA	NA
EPA 1312/8015M								
TPH as Diesel	mg/L	NA	NA	NA	NA	NA	NA	NA
TPH as Gasoline	mg/L	NA	NA	NA	NA	32	NA	NA
TPH as JP-5	mg/L	NA	NA	NA	NA	NA	NA	NA
EPA 1312/8020								
Benzene	µg/L	NA	NA	NA	NA	2.5 U	NA	NA
Ethylbenzene	µg/L	NA	NA	NA	NA	160	NA	NA
Toluene	µg/L	NA	NA	NA	NA	13	NA	NA
Xylenes (total)	µg/L	NA	NA	NA	NA	290	NA	NA
EPA 8260A								
	µg/kg	560 U	570 U	540 U	2800 U	1100 U	1300 U	1200 U
Ethylbenzene	µg/kg	560 U	570 U	2700	31000	26000	220 J	520 J
Methyl tert-butyl ether (MTBE)	µg/kg	1100 U	1100 U	1100 U	5700 U	2100 U	2700 U	2300 U
Toluene	µg/kg	560 U	570 U	540 U	2800 U	1100 U	1300 U	1200 U
Trichloroethene	µg/kg	560 U	570 U	540 U	2800 U	1100 U	1300 U	1200 U
Xylenes (total)	µg/kg	560 U	570 U	2900	30000	45000	2700	990 J

Table E-1
Summary of Analytical Results — Soil Borings

Sample Identification Location Code Date Sampled Depth (feet below ground surface)	Unit	18609-2665 CB-398-28 01/18/00 169.5	18609-2666 CB-398-28 01/18/00 185.0	18609-2667 CB-398-28 01/18/00 189.5	18609-3377 398-SB-HP-01 08/01/00 5.0	18609-3378 398-SB-HP-01 08/01/00 10.0	18609-3379 398-SB-HP-01 08/01/00 20.0	18609-3380 398-SB-HP-01 08/01/00 40.0
CA LUFT 8015M								
TPH as Diesel	mg/kg	31000	2400	13000	11 U	12 U	11 U	12 U
TPH as Gasoline	mg/kg	17000	3200	7100	1.08 U	1.21 U	1.07 U	1.16 U
TPH as JP-5	mg/kg	NA	NA	NA	11 U	12 U	11 U	12 U
EPA 1312/8015M								
TPH as Diesel	mg/L	730	NA	2.1	NA	NA	NA	NA
TPH as Gasoline	mg/L	3.5	NA	2.4	NA	NA	NA	NA
TPH as JP-5	mg/L	NA	NA	NA	NA	NA	NA	NA
EPA 1312/8020								
Benzene	µg/L	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	µg/L	NA	NA	NA	NA	NA	NA	NA
Toluene	µg/L	NA	NA	NA	NA	NA	NA	NA
Xylenes (total)	µg/L	NA	NA	NA	NA	NA	NA	NA
EPA 8260A								
	µg/kg	1100 U	1200 U	1100 U	5.4 U	6 U	5.3 U	5.8 U
Ethylbenzene	µg/kg	370 J	650 J	300 J	5.4 U	6 U	5.3 U	5.8 U
Methyl tert-butyl ether (MTBE)	µg/kg	2200 U	2300 U	2300 U	11 U	12 U	11 U	12 U
Toluene	µg/kg	1100 U	1200 U	1100 U	5.4 U	6 U	5.3 U	5.8 U
Trichloroethene	µg/kg	1100 U	1200 U	1100 U	5.4 U	6 U	5.3 U	5.8 U
Xylenes (total)	µg/kg	8200	5100	1800	5.4 U	6 U	5.3 U	5.8 U

COMPLETED (SW 1/21)

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 10629

FORM 0019 REV. 9-99

Tank Farm 398

LAB COORDINATOR: M. Concepcion	LAB COORDINATOR'S PHONE: 949-660-1550	LAB COORDINATOR'S FAX: 949-475-5433	LABORATORY SERVICE ID: 00-A037	LABORATORY CONTACT: EMAX	MAIL REPORT (COMPANY NAME): IT Group
PROJECT NAME: El Toro-D070	PROJECT LOCATION: MCAS El Toro	PROJECT NUMBER: 18609	LABORATORY PHONE: 610-618-8884	LABORATORY FAX: —	RECIPIENT NAME: Dwayne Shick
PROJECT CONTACT: M. Concepcion	PROJECT PHONE NUMBER: 949-451-1667	PROJECT FAX: 949-475-5433	LABORATORY ADDRESS: 630 Maple Dr.		ADDRESS: 3347 Michelson
PROJECT ADDRESS: —	CITY, STATE AND ZIP CODE: —	CLIENT: SWDIV	CITY, STATE AND ZIP CODE: Torrance, CA		CITY, STATE AND ZIP CODE: Irvine, CA
PROJECT MANAGER: E. Sedlak	PROJECT MANAGER'S PHONE: 949-660-5446	PROJECT MANAGER'S FAX: —			

Item	Sample Identifier	Matrix	Date (2000)	Time	Preserved	# of Cont.	QC Level	T.A.T.	Analyses: 8015-IPS	8015-GAS	8260+MTBE	8015-Diesel	EPA 1312 (Hold)				Comments
1	~~18708-W~~ 18609-2634	W	1-13	1410	4°C	8	3	5 day	X	X	X	X					Analyze from "X" on cap
2	18609-2635	S	1/13	1218	4°C	1	3	5 day	X	X	X	X	X				~~CB39~~
3	18609-2636 *	S	1/13	1229	4°C	1	3	5 Day	X	X	X	X	X				SPLP Gas/JP-5 1/26/00
4	18609-2637 *	S	1/13	1245	4°C	1	3	5 Day	X	X	X	X	X				SPLP
5	18609-2638 *	S	1/13	1259	4°C	1	3	5-Day	X	X	X	X	X				SPLP Gas/JP-5/xylene
6	18609-2639	S	1/13	1317	4°C	1	3	5-day	X	X	X	X	X				
7	18609-2640	W	1/13	1225	4°C	2	3	5-Day			X						
8																	
9																	
10																	

W.S. 1/13/00

SAMPLES COLLECTED BY: A. Sickles

COURIER AND AIR BILL NUMBER: Courier

COOLER TEMPERATURE UPON RECEIPT:

RELINQUISHED BY	RECEIVED BY	DATE	TIME	SAMPLE'S CONDITION UPON RECEIPT
Andrew Kiddington	[signature]	1-13-00	2:30	

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

Tank Farm 398

Sample Point Location	Sample Type: G	C	F	QC
(1) EQUIPMENT RINSATE FOR CB398-11	X		X	X
(2) CB 398-11 @ 140-140.5	X			
(3) CB 398-11 From 149.5-150'	X			
(4) CB 398-11 From 160-160.5'	X			
(5) CB398-11 From 169.5-170'	X			
(6) CB398-11 From 179.5-180'	X			
(7) Trip Blank	X			X

Comments

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

(SPLP-4636) 4650

AV

[redacted]

4526A

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

Date: 02-10-2000
EMAX Batch No.: 00A037

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 01/13/00. The data reported include :

Sample ID	Control #	Col Date	Matrix	Analysis
18609-2634	A037-01	01/13/00	Water	Modified 8015 by Purge & Trap
				Modified 8015 by Extraction
				Volatile Organics by GC/MS
18609-2635	A037-02	01/13/00	Soil	Modified 8015 by Extraction
				Modified 8015 by Purge & Trap
				Volatile Organics by GC/MS
18609-2636	A037-03	01/13/00	Soil	Volatile Organics by GC/MS
				Modified 8015 by Extraction
				Modified 8015 by Purge & Trap
18609-2637	A037-04	01/13/00	Soil	Modified 8015 by Extraction
				Modified 8015 by Purge & Trap
				Volatile Organics by GC/MS
18609-2638	A037-05	01/13/00	Soil	Volatile Organics by GC/MS
				Modified 8015 by Extraction
				Modified 8015 by Purge & Trap
18609-2639	A037-06	01/13/00	Soil	Modified 8015 by Purge & Trap
				Modified 8015 by Extraction
				Volatile Organics by GC/MS
18609-2640	A037-07	01/13/00	Water	Volatile Organics by GC/MS

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
Project : MCAS EL TORO/18609/D.O. 70
Batch No. : 00A037

Matrix : SOIL
Instrument ID : GCT019

SAMPLE ID	EMAX SAMPLE ID	RESULTS (mg/kg)	SUR1 (%)	SUR2 (%)	DLF	MOIST	RL (mg/kg)	MDL (mg/kg)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1S	DSA018SB	ND	80	76	1	NA	10	2.1	01/23/0013:52	01/14/0016:30	TA10071A	TA10062A	DSA018S	NA	01/14/00
LCS1S	DSA018SL	511	78	82	1	NA	10	2.1	01/22/0016:44	01/14/0016:30	TA10037A	TA10026A	DSA018S	NA	01/14/00
18609-2635	A037-02	ND	87	93	1	4.1	10.4	2.19	01/22/0018:37	01/14/0016:30	TA10040A	TA10038A	DSA018S	01/13/00	01/13/00
18609-2635MS	A037-02M	580	82	85	1	4.1	10.4	2.19	01/22/0019:14	01/14/0016:30	TA10041A	TA10038A	DSA018S	01/13/00	01/13/00
18609-2635MSD	A037-02S	566	76	81	1	4.1	10.4	2.19	01/22/0019:51	01/14/0016:30	TA10042A	TA10038A	DSA018S	01/13/00	01/13/00
18609-2636	A037-03	4800*	104	80	10	20.9	126	26.5	01/23/0014:29	01/14/0016:30	TA10072A	TA10062A	DSA018S	01/13/00	01/13/00
18609-2637	A037-04	280	83	80	1	13.3	11.5	2.42	01/22/0021:06	01/14/0016:30	TA10044A	TA10038A	DSA018S	01/13/00	01/13/00
18609-2638	A037-05	14000*	DO	DO	20	15.2	236	49.4	01/23/0015:07	01/14/0016:30	TA10073A	TA10062A	DSA018S	01/13/00	01/13/00
18609-2639	A037-06	48	83	82	1	6.7	10.7	2.25	01/22/0022:20	01/14/0016:30	TA10046A	TA10038A	DSA018S	01/13/00	01/13/00

QC LIMIT : (SOIL) 60-140 55-150
QC LIMIT : (WATER) 65-135 60-145
SURR1 : Bromobenzene
SURR2 : Hexacosane
RL : Reporting Limit
H-C RANGE: C7-C18 = JP-5
C6-C12 = Gas
C10-C24 = Diesel
C18-C34 = Motor Oil
E : Value exceed the upper level of the initial calibration
D : Value from dilution
DO : Diluted out
* : Chromatogram shows a JP5 pattern

5005

METHOD M8015
TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

Client : IT CORPORATION
Project : MCAS EL TORO/18609/D.O. 70
Batch No. : 00A037

Matrix : WATER
Instrument ID : GCT019

SAMPLE ID	EMAX SAMPLE ID	RESULTS (mg/L)	SUR1 (%)	SUR2 (%)	DLF	MOIST	RL (mg/L)	MDL (mg/L)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1W	DSA023WB	ND	79	88	1	NA	.1	.038	01/21/0011:20	01/18/0016:00	TA09058A	TA09055A	DSA023W	NA	01/18/00
LCS1W	DSA023WL	5.28	69	86	1	NA	.1	.038	01/20/0020:24	01/18/0016:00	TA09034A	TA09031A	DSA023W	NA	01/18/00
LCD1W	DSA023WC	5.21	70	86	1	NA	.1	.038	01/20/0021:02	01/18/0016:00	TA09035A	TA09031A	DSA023W	NA	01/18/00
18609-2634	A037-01	ND	67	82	.98	NA	.098	.0372	01/22/0009:15	01/18/0016:00	TA10025A	TA10014A	DSA023W	01/13/00	01/13/00

QC LIMIT : (SOIL) 60-140 55-150
QC LIMIT : (WATER) 65-135 60-145
SURR1 : Bromobenzene
SURR2 : Hexacosane
RL : Reporting Limit
H-C RANGE: C7-C18 = JP-5
C6-C12 = Gas
C10-C24 = Diesel
C18-C34 = Motor Oil
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.: 00A037
METHOD: METHOD M8015

MATRIX:	WATER			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK1W				
LAB SAMP ID:	DSA023W8	DSA023WL	DSA023WC		
LAB FILE ID:	TA09058A	TA09034A	TA09035A		
DATE EXTRACTED:	01/18/0016:00	01/18/0016:00	01/18/0016:00	DATE COLLECTED:	NA
DATE ANALYZED:	01/21/0011:20	01/20/0020:24	01/20/0021:02	DATE RECEIVED:	01/18/00
PREP. BATCH:	DSA023W	DSA023W	DSA023W		
CALIB. REF:	TA09055A	TA09031A	TA09031A		

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	5.28	106	5	5.21	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	.691	69	1	.697	70	65-135
Hexacosane	1	.861	86	1	.856	86	60-145

EMAX QUALITY CONTROL DATA
LCS ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
BATCH NO.: 00A037
METHOD: METHOD M8015

==========

MATRIX:	SOIL		% MOISTURE:	NA
DILUTION FACTOR:	1	1		
SAMPLE ID:	MBLK1S			
LAB SAMP ID:	DSA018SB	DSA018SL		
LAB FILE ID:	TA10071A	TA10037A		
DATE EXTRACTED:	01/14/0016:30	01/14/0016:30	DATE COLLECTED:	NA
DATE ANALYZED:	01/23/0013:52	01/22/0016:44	DATE RECEIVED:	01/14/00
PREP. BATCH:	DSA018S	DSA018S		
CALIB. REF:	TA10062A	TA10026A		

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	QC LIMIT (%)
Diesel	ND	500	511	102	51-153

==========

SURROGATE PARAMETER	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	QC LIMIT (%)
Bromobenzene	100	77.6	78	60-140
Hexacosane	100	81.6	82	55-150

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
BATCH NO.: 00A037
METHOD: METHOD M8015

MATRIX:	SOIL			% MOISTURE:	4.1
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	18609-2635				
LAB SAMP ID:	A037-02	A037-02M	A037-02S		
LAB FILE ID:	TA10040A	TA10041A	TA10042A		
DATE EXTRACTED:	01/14/0016:30	01/14/0016:30	01/14/0016:30	DATE COLLECTED:	01/13/00
DATE ANALYZED:	01/22/0018:37	01/22/0019:14	01/22/0019:51	DATE RECEIVED:	01/13/00
PREP. BATCH:	DSA018S	DSA018S	DSA018S		
CALIB. REF:	TA10038A	TA10038A	TA10038A		

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	MS RSLT (mg/kg)	MS % REC	SPIKE AMT (mg/kg)	MSD RSLT (mg/kg)	MSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
Diesel	ND	521	580	111	521	566	109	2	51-153	50

SURROGATE PARAMETER	SPIKE AMT (mg/kg)	MS RSLT (mg/kg)	MS % REC	SPIKE AMT (mg/kg)	MSD RSLT (mg/kg)	MSD % REC	QC LIMIT (%)
Bromobenzene	104	85.3	82	104	78.8	76	60-140
Hexacosane	104	88.3	85	104	84.8	81	55-150

METHOD 5030A/M8015

TOTAL PETROLEUM HYDROCARBONS BY PURGE & TRAP

Client : IT CORPORATION
Project : MCAS EL TORO/18609/D.O. 70
Batch No. : 00A037

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	VAA1839B	ND	89	1	NA	.1	.018	01/15/0019:07	01/15/0019:07	EA09047A	EA09046A	VAA1839	NA	01/15/00
LCS1W	VAA1839L	1.16	99	1	NA	.1	.018	01/15/0019:42	01/15/0019:42	EA09048A	EA09046A	VAA1839	NA	01/15/00
LCD1W	VAA1839C	1.1	100	1	NA	.1	.018	01/15/0020:17	01/15/0020:17	EA09049A	EA09046A	VAA1839	NA	01/15/00
18609-2634	A037-01	ND	90	1	NA	.1	.018	01/15/0022:03	01/15/0022:03	EA09052A	EA09046A	VAA1839	01/13/00	01/13/00

SURR : Bromofluorobenzene
PRL : Reporting Limit
E : Value exceed the upper level of the initial calibration
D : Value from dilution

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

Client : IT CORPORATION
Project : MCAS EL TORO/18609/D.O. 70
Batch No. : 00A037

Matrix : SOIL
Instrument ID : GCT039

SAMPLE ID	EMAX SAMPLE ID	RESULTS (mg/kg)	SURR (%)	DLF	MOIST	RL (mg/kg)	MDL (mg/kg)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1S	VAA2339B	ND	82	1	NA	1	.088	01/19/0000:09	01/19/0000:09	EA10064A	EA10063A	VAA2339	NA	01/19/00
LCS1S	VAA2339L	5.77	94	1	NA	1	.088	01/19/0000:45	01/19/0000:45	EA10065A	EA10063A	VAA2339	NA	01/19/00
LCD1S	VAA2339C	5.8	94	1	NA	1	.088	01/19/0001:20	01/19/0001:20	EA10066A	EA10063A	VAA2339	NA	01/19/00
MBLK2S	VMA2639B	ND	78	10	NA	10	.88	01/20/0003:47	01/20/0003:47	EA11030A	EA11027A	VMA2639	NA	01/20/00
LCS2S	VMA2639L	66	84	10	NA	10	.88	01/20/0015:14	01/20/0015:14	EA11049A	EA11039A	VMA2639	NA	01/20/00
LCD2S	VMA2639C	63.2	89	10	NA	10	.88	01/20/0004:58	01/20/0004:58	EA11032A	EA11027A	VMA2639	NA	01/20/00
MBLK3S	VMA2739B	ND	76	10	NA	10	.88	01/20/0021:01	01/20/0021:01	EA11058A	EA11051A	VMA2739	NA	01/20/00
LCS3S	VMA2739L	62.8	89	10	NA	10	.88	01/20/0021:36	01/20/0021:36	EA11059A	EA11051A	VMA2739	NA	01/20/00
LCD3S	VMA2739C	54.4	86	10	NA	10	.88	01/20/0022:10	01/20/0022:10	EA11060A	EA11051A	VMA2739	NA	01/20/00
18609-2635	A037-02	ND	81	1	4.1	1.04	.0918	01/19/0001:56	01/19/0001:56	EA10067A	EA10063A	VAA2339	01/13/00	01/13/00
18609-2636	A037-03	5000E	158*	40	20.9	50.6	4.45	01/20/0005:34	01/20/0005:34	EA11033A	EA11027A	VMA2639	01/13/00	01/13/00
18609-2636DL	A037-03T	3400**	95	500	20.9	632	55.6	01/21/0001:03	01/21/0001:03	EA11065A	EA11063A	VMA2739	01/13/00	01/13/00
18609-2637	A037-04	8.3**	82	1	13.3	1.15	.101	01/19/0002:32	01/19/0002:32	EA10068A	EA10063A	VAA2339	01/13/00	01/13/00
18609-2638	A037-05	8800E	906*	40	15.2	47.2	4.15	01/20/0006:09	01/20/0006:09	EA11034A	EA11027A	VMA2639	01/13/00	01/13/00
18609-2638DL	A037-05T	8700**	102	500	15.2	590	51.9	01/21/0001:38	01/21/0001:38	EA11066A	EA11063A	VMA2739	01/13/00	01/13/00
18609-2639	A037-06	2.2**	81	1	6.7	1.07	.0943	01/19/0003:07	01/19/0003:07	EA10069A	EA10063A	VAA2339	01/13/00	01/13/00

SURR : Bromofluorobenzene
PRL : Reporting Limit
E : Value exceed the upper level of the initial calibration
D : Value from dilution
** : Chromatogram exhibits heavier pattern of HC.
* : Due to matrix interferences.

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
BATCH NO.: 00A037
METHOD: METHOD 5030A/M8015

MATRIX:	WATER			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK1W				
LAB SAMP ID:	VAA1839B	VAA1839L	VAA1839C		
LAB FILE ID:	EA09047A	EA09048A	EA09049A		
DATE EXTRACTED:	01/15/0019:07	01/15/0019:42	01/15/0020:17	DATE COLLECTED:	NA
DATE ANALYZED:	01/15/0019:07	01/15/0019:42	01/15/0020:17	DATE RECEIVED:	01/15/00
PREP. BATCH:	VAA1839	VAA1839	VAA1839		
CALIB. REF:	EA09046A	EA09046A	EA09046A		

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	1.1	1.16	106	1.1	1.1	100	5	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	.05	.0494	99	.05	.0498	100	65-135

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
BATCH NO.: 00A037
METHOD: METHOD 5030A/M8015

MATRIX:	SOIL			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK1S				
LAB SAMP ID:	VAA2339B	VAA2339L	VAA2339C		
LAB FILE ID:	EA10064A	EA10065A	EA10066A		
DATE EXTRACTED:	01/19/0000:09	01/19/0000:45	01/19/0001:20	DATE COLLECTED:	NA
DATE ANALYZED:	01/19/0000:09	01/19/0000:45	01/19/0001:20	DATE RECEIVED:	01/19/00
PREP. BATCH:	VAA2339	VAA2339	VAA2339		
CALIB. REF:	EA10063A	EA10063A	EA10063A		

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
Gasoline	ND	5.5	5.77	105	5.5	5.8	105	0	57-146	50

SURROGATE PARAMETER	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	QC LIMIT (%)
Bromofluorobenzene	.25	.235	94	.25	.235	94	60-140

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
BATCH NO.: 00A037
METHOD: METHOD 5030A/M8015

MATRIX:	SOIL			% MOISTURE:	NA
DILUTION FACTOR:	10	10	10		
SAMPLE ID:	MBLK2S				
LAB SAMP ID:	VMA2639B	VMA2639L	VMA2639C		
LAB FILE ID:	EA11030A	EA11049A	EA11032A		
DATE EXTRACTED:	01/20/0003:47	01/20/0015:14	01/20/0004:58	DATE COLLECTED:	NA
DATE ANALYZED:	01/20/0003:47	01/20/0015:14	01/20/0004:58	DATE RECEIVED:	01/20/00
PREP. BATCH:	VMA2639	VMA2639	VMA2639		
CALIB. REF:	EA11027A	EA11039A	EA11027A		

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
Gasoline	ND	55	66	120	55	63.2	115	4	57-146	50

SURROGATE PARAMETER	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	QC LIMIT (%)
Bromofluorobenzene	2.5	2.1	84	2.5	2.24	89	60-140

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
BATCH NO.: 00A037
METHOD: METHOD 5030A/M8015

MATRIX:	SOIL			% MOISTURE:	NA
DILUTION FACTOR:	10	10	10		
SAMPLE ID:	MBLK3S				
LAB SAMP ID:	VMA2739B	VMA2739L	VMA2739C		
LAB FILE ID:	EA11058A	EA11059A	EA11060A		
DATE EXTRACTED:	01/20/0021:01	01/20/0021:36	01/20/0022:10	DATE COLLECTED:	NA
DATE ANALYZED:	01/20/0021:01	01/20/0021:36	01/20/0022:10	DATE RECEIVED:	01/20/00
PREP. BATCH:	VMA2739	VMA2739	VMA2739		
CALIB. REF:	EA11051A	EA11051A	EA11051A		

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
Gasoline	ND	55	62.8	114	55	54.4	99	14	57-146	50

SURROGATE PARAMETER	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	QC LIMIT (%)
Bromofluorobenzene	2.5	2.24	89	2.5	2.16	86	60-140

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

Client	: IT CORPORATION	Date Collected:	01/13/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	01/13/00
Btch No.	: 00A037	Date Extracted:	01/15/00 02:15
Sample ID:	18609-2634	Date Analyzed:	01/15/00 02:15
Lab Samp ID:	A037-01	Dilution Factor:	1
Lab File ID:	RAV226	Matrix	: WATER
Ext Btch ID:	VOA1401	% Moisture	: NA
Calib. Ref.:	RAV221	Instrument ID	: T-001

PARAMETERS	RESULTS (ug/L)	PRL (ug/L)	MDL (ug/L)
1,1,1-TRICHLOROETHANE	ND	5	1.1
1,1,2,2-TETRACHLOROETHANE	ND	5	.49
1,1,2-TRICHLOROETHANE	ND	5	.52
1,1-DICHLOROETHANE	ND	5	1.2
1,1-DICHLOROETHENE	ND	5	2
1,2-DICHLOROETHANE	ND	5	.58
1,2-DICHLOROPROPANE	ND	5	.53
2-BUTANONE	ND	50	7.9
2-CHLOROETHYLVINYLETHER	ND	50	.83
2-HEXANONE	ND	50	1
4-METHYL-2-PENTANONE	ND	50	1
ACETONE	ND	50	10
BENZENE	ND	5	.85
BROMODICHLOROMETHANE	ND	5	.33
BROMOFORM	ND	5	.29
BROMOMETHANE	ND	5	1.5
CARBON DISULFIDE	ND	5	1.3
CARBON TETRACHLORIDE	ND	5	1.3
CHLOROBENZENE	ND	5	.68
CHLOROETHANE	ND	5	2.9
CHLOROFORM	ND	5	.85
CHLOROMETHANE	ND	5	1.7
CIS-1,2-DICHLOROETHENE	ND	5	.97
CIS-1,3-DICHLOROPROPENE	ND	5	.47
DIBROMOCHLOROMETHANE	ND	5	.29
ETHYLBENZENE	ND	5	.72
MTBE	ND	10	.96
METHYLENE CHLORIDE	6.6B	5	1.8
STYRENE	ND	5	.58
TETRACHLOROETHENE	ND	5	1.2
TOLUENE	ND	5	.92
TRANS-1,2-DICHLOROETHENE	ND	5	1.5
TRANS-1,3-DICHLOROPROPENE	ND	5	.45
TRICHLOROETHENE	ND	5	.9
VINYL ACETATE	ND	50	6.2
VINYL CHLORIDE	ND	5	1.7
XYLENES	ND	5	2.4

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	96	62-139
TOLUENE-D8	95	75-125
BROMOFLUOROBENZENE	92	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:	01/13/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	01/13/00
Batch No.	: 00A037	Date Extracted:	01/15/00 05:05
Sample ID:	18609-2635	Date Analyzed:	01/15/00 05:05
Lab Samp ID:	A037-02	Dilution Factor:	1
Lab File ID:	RAV231	Matrix :	SOIL
Ext Btch ID:	VOA1401	% Moisture :	4.1
Calib. Ref.:	RAV221	Instrument ID :	T-001

PARAMETERS	RESULTS (ug/kg)	PRL (ug/kg)	MDL (ug/kg)
1,1,1-TRICHLOROETHANE	ND	5.2	.35
1,1,2,2-TETRACHLOROETHANE	ND	5.2	.35
1,1,2-TRICHLOROETHANE	ND	5.2	.24
1,1-DICHLOROETHANE	ND	5.2	.32
1,1-DICHLOROETHENE	ND	5.2	.56
1,2-DICHLOROETHANE	ND	5.2	.34
1,2-DICHLOROPROPANE	ND	5.2	.39
2-BUTANONE	ND	52	5.3
2-CHLOROETHYLVINYLETHER	ND	52	.18
2-HEXANONE	ND	52	1.3
4-METHYL-2-PENTANONE	ND	52	1.2
ACETONE	ND	52	4.3
BENZENE	ND	5.2	.26
BROMODICHLOROMETHANE	ND	5.2	.27
BROMOFORM	ND	5.2	.29
BROMOMETHANE	ND	5.2	.67
CARBON DISULFIDE	ND	5.2	.13
CARBON TETRACHLORIDE	ND	5.2	.82
CHLOROBENZENE	ND	5.2	.21
CHLOROETHANE	ND	5.2	1.9
CHLOROFORM	ND	5.2	.44
CHLOROMETHANE	ND	5.2	2.1
CIS-1,2-DICHLOROETHENE	ND	5.2	.3
CIS-1,3-DICHLOROPROPENE	ND	5.2	.23
DIBROMOCHLOROMETHANE	ND	5.2	.082
ETHYLBENZENE	ND	5.2	.41
MTBE	ND	10	.39
METHYLENE CHLORIDE	6.4B	5.2	.43
STYRENE	ND	5.2	.46
TETRACHLOROETHENE	ND	5.2	.25
TOLUENE	ND	5.2	.33
TRANS-1,2-DICHLOROETHENE	ND	5.2	.3
TRANS-1,3-DICHLOROPROPENE	ND	5.2	.69
TRICHLOROETHENE	ND	5.2	.27
VINYL ACETATE	ND	52	.75
VINYL CHLORIDE	ND	5.2	1.1
XYLENES	ND	5.2	1.1

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	93	52-149
TOLUENE-D8	96	65-135
BROMOFLUOROBENZENE	96	65-135

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:	01/13/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	01/13/00
Batch No.	: 00A037	Date Extracted:	01/15/00 09:03
Sample ID:	18609-2636	Date Analyzed:	01/15/00 09:03
Lab Samp ID:	A037-03	Dilution Factor:	100
Lab File ID:	RAV238	Matrix :	SOIL
Ext Btch ID:	VOA1401	% Moisture :	20.9
Calib. Ref.:	RAV221	Instrument ID :	T-001

PARAMETERS	RESULTS (ug/kg)	PRL (ug/kg)	MDL (ug/kg)
1,1,1-TRICHLOROETHANE	ND	630	42
1,1,2,2-TETRACHLOROETHANE	ND	630	42
1,1,2-TRICHLOROETHANE	ND	630	29
1,1-DICHLOROETHANE	ND	630	38
1,1-DICHLOROETHENE	ND	630	68
1,2-DICHLOROETHANE	ND	630	41
1,2-DICHLOROPROPANE	ND	630	48
2-BUTANONE	ND	6300	650
2-CHLOROETHYLVINYLETHER	ND	6300	21
2-HEXANONE	ND	6300	160
4-METHYL-2-PENTANONE	ND	6300	140
ACETONE	ND	6300	520
BENZENE	ND	630	31
BROMODICHLOROMETHANE	ND	630	33
BROMOFORM	ND	630	35
BROMOMETHANE	ND	630	81
CARBON DISULFIDE	ND	630	16
CARBON TETRACHLORIDE	ND	630	100
CHLOROBENZENE	ND	630	25
CHLOROETHANE	ND	630	220
CHLOROFORM	ND	630	54
CHLOROMETHANE	ND	630	260
CIS-1,2-DICHLOROETHENE	ND	630	37
CIS-1,3-DICHLOROPROPENE	ND	630	28
DIBROMOCHLOROMETHANE	ND	630	10
ETHYLBENZENE	ND	630	50
MTBE	ND	1300	47
METHYLENE CHLORIDE	1400B	630	52
STYRENE	ND	630	55
TETRACHLOROETHENE	ND	630	31
TOLUENE	ND	630	40
TRANS-1,2-DICHLOROETHENE	ND	630	36
TRANS-1,3-DICHLOROPROPENE	ND	630	84
TRICHLOROETHENE	ND	630	32
VINYL ACETATE	ND	6300	91
VINYL CHLORIDE	ND	630	130
XYLENES	620J	630	140

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	95	52-149
TOLUENE-D8	111	65-135
BROMOFLUOROBENZENE	101	65-135

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:	01/13/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	01/13/00
Batch No.	: 00A037	Date Extracted:	01/19/00 18:33
Sample ID:	18609-2637	Date Analyzed:	01/19/00 18:33
Lab Samp ID:	A037-04	Dilution Factor:	50
Lab File ID:	RAV323	Matrix :	SOIL
Ext Btch ID:	VOA1901	% Moisture :	13.3
Calib. Ref.:	RAV313	Instrument ID :	T-001

PARAMETERS	RESULTS (ug/kg)	PRL (ug/kg)	MDL (ug/kg)
1,1,1-TRICHLOROETHANE	ND	290	19
1,1,2,2-TETRACHLOROETHANE	ND	290	19
1,1,2-TRICHLOROETHANE	ND	290	13
1,1-DICHLOROETHANE	ND	290	17
1,1-DICHLOROETHENE	ND	290	31
1,2-DICHLOROETHANE	ND	290	19
1,2-DICHLOROPROPANE	ND	290	22
2-BUTANONE	ND	2900	300
2-CHLOROETHYLVINYLETHER	ND	2900	9.8
2-HEXANONE	ND	2900	72
4-METHYL-2-PENTANONE	ND	2900	66
ACETONE	ND	2900	240
BENZENE	ND	290	14
BROMODICHLOROMETHANE	ND	290	15
BROMOFORM	ND	290	16
BROMOMETHANE	ND	290	37
CARBON DISULFIDE	ND	290	7.3
CARBON TETRACHLORIDE	ND	290	46
CHLOROBENZENE	ND	290	11
CHLOROETHANE	ND	290	100
CHLOROFORM	ND	290	24
CHLOROMETHANE	ND	290	120
CIS-1,2-DICHLOROETHENE	ND	290	17
CIS-1,3-DICHLOROPROPENE	ND	290	13
DIBROMOCHLOROMETHANE	ND	290	4.6
ETHYLBENZENE	ND	290	23
MTBE	ND	580	21
METHYLENE CHLORIDE	ND	290	24
STYRENE	ND	290	25
TETRACHLOROETHENE	ND	290	14
TOLUENE	ND	290	18
TRANS-1,2-DICHLOROETHENE	ND	290	17
TRANS-1,3-DICHLOROPROPENE	ND	290	38
TRICHLOROETHENE	ND	290	15
VINYL ACETATE	ND	2900	41
VINYL CHLORIDE	ND	290	58
XYLENES	ND	290	63

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	89	52-149
TOLUENE-D8	95	65-135
BROMOFLUOROBENZENE	96	65-135

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:	01/13/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	01/13/00
Batch No.	: 00A037	Date Extracted:	01/20/00 16:47
Sample ID	: 18609-2638	Date Analyzed:	01/20/00 16:47
Lab Samp ID	: A037-05	Dilution Factor:	200
Lab File ID	: RAV361	Matrix	: SOIL
Ext Btch ID	: VOA2201	% Moisture	: 15.2
Calib. Ref.	: RAV356	Instrument ID	: T-001

PARAMETERS	RESULTS (ug/kg)	PRL (ug/kg)	MDL (ug/kg)
1,1,1-TRICHLOROETHANE	ND	1200	78
1,1,2,2-TETRACHLOROETHANE	ND	1200	78
1,1,2-TRICHLOROETHANE	ND	1200	55
1,1-DICHLOROETHANE	ND	1200	71
1,1-DICHLOROETHENE	ND	1200	130
1,2-DICHLOROETHANE	ND	1200	77
1,2-DICHLOROPROPANE	ND	1200	89
2-BUTANONE	ND	12000	1200
2-CHLOROETHYLVINYLETHER	ND	12000	40
2-HEXANONE	ND	12000	290
4-METHYL-2-PENTANONE	ND	12000	270
ACETONE	ND	12000	960
BENZENE	ND	1200	58
BROMODICHLOROMETHANE	ND	1200	61
BROMOFORM	ND	1200	66
BROMOMETHANE	ND	1200	150
CARBON DISULFIDE	ND	1200	30
CARBON TETRACHLORIDE	ND	1200	190
CHLOROBENZENE	ND	1200	46
CHLOROETHANE	ND	1200	420
CHLOROFORM	ND	1200	100
CHLOROMETHANE	ND	1200	490
CIS-1,2-DICHLOROETHENE	ND	1200	69
[illegible]-1,3-DICHLOROPROPENE	ND	1200	52
[illegible]ROMOCHLOROMETHANE	ND	1200	19
[illegible]HYLBENZENE	ND	1200	92
MTBE	ND	2400	88
METHYLENE CHLORIDE	ND	1200	96
STYRENE	ND	1200	100
TETRACHLOROETHENE	ND	1200	57
TOLUENE	ND	1200	74
TRANS-1,2-DICHLOROETHENE	ND	1200	68
TRANS-1,3-DICHLOROPROPENE	ND	1200	160
TRICHLOROETHENE	ND	1200	60
VINYL ACETATE	ND	12000	170
VINYL CHLORIDE	ND	1200	240
XYLENES	5100	1200	260

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	87	52-149
TOLUENE-D8	101	65-135
BROMOFLUOROBENZENE	95	65-135

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:	01/13/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	01/13/00
Batch No.	: 00A037	Date Extracted:	01/15/00 05:39
Sample ID:	18609-2639	Date Analyzed:	01/15/00 05:39
Lab Samp ID:	A037-06	Dilution Factor:	1
Lab File ID:	RAV232	Matrix :	SOIL
Ext Btch ID:	VOA1401	% Moisture :	6.7
Calib. Ref.:	RAV221	Instrument ID :	T-001

PARAMETERS	RESULTS (ug/kg)	PRL (ug/kg)	MDL (ug/kg)
1,1,1-TRICHLOROETHANE	ND	5.4	.35
1,1,2,2-TETRACHLOROETHANE	ND	5.4	.35
1,1,2-TRICHLOROETHANE	ND	5.4	.25
1,1-DICHLOROETHANE	ND	5.4	.32
1,1-DICHLOROETHENE	ND	5.4	.58
1,2-DICHLOROETHANE	ND	5.4	.35
1,2-DICHLOROPROPANE	ND	5.4	.4
2-BUTANONE	ND	54	5.5
2-CHLOROETHYLVINYLETHER	ND	54	.18
2-HEXANONE	ND	54	1.3
4-METHYL-2-PENTANONE	ND	54	1.2
ACETONE	ND	54	4.4
BENZENE	ND	5.4	.27
BROMODICHLOROMETHANE	ND	5.4	.28
BROMOFORM	ND	5.4	.3
BROMOMETHANE	ND	5.4	.68
CARBON DISULFIDE	ND	5.4	.14
CARBON TETRACHLORIDE	ND	5.4	.85
CHLOROBENZENE	ND	5.4	.21
CHLOROETHANE	ND	5.4	1.9
CHLOROFORM	ND	5.4	.45
CHLOROMETHANE	ND	5.4	2.2
CIS-1,2-DICHLOROETHENE	ND	5.4	.31
CIS-1,3-DICHLOROPROPENE	ND	5.4	.24
DIBROMOCHLOROMETHANE	ND	5.4	.085
ETHYLBENZENE	ND	5.4	.42
MTBE	ND	11	.4
METHYLENE CHLORIDE	7.2B	5.4	.44
STYRENE	ND	5.4	.47
TETRACHLOROETHENE	ND	5.4	.26
TOLUENE	ND	5.4	.34
TRANS-1,2-DICHLOROETHENE	ND	5.4	.31
TRANS-1,3-DICHLOROPROPENE	ND	5.4	.71
TRICHLOROETHENE	ND	5.4	.27
VINYL ACETATE	ND	54	.77
VINYL CHLORIDE	ND	5.4	1.1
XYLENES	ND	5.4	1.2

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	91	52-149
TOLUENE-D8	97	65-135
BROMOFLUOROBENZENE	94	65-135

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:	01/13/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	01/13/00
Btch No.	: 00A037	Date Extracted:	01/15/00 02:49
Sample ID:	18609-2640	Date Analyzed:	01/15/00 02:49
Lab Samp ID:	A037-07	Dilution Factor:	1
Lab File ID:	RAV227	Matrix :	WATER
Ext Btch ID:	VOA1401	% Moisture :	NA
Calib. Ref.:	RAV221	Instrument ID :	T-001

PARAMETERS	RESULTS (ug/L)	PRL (ug/L)	MDL (ug/L)
1,1,1-TRICHLOROETHANE	ND	5	1.1
1,1,2,2-TETRACHLOROETHANE	ND	5	.49
1,1,2-TRICHLOROETHANE	ND	5	.52
1,1-DICHLOROETHANE	ND	5	1.2
1,1-DICHLOROETHENE	ND	5	2
1,2-DICHLOROETHANE	ND	5	.58
1,2-DICHLOROPROPANE	ND	5	.53
2-BUTANONE	ND	50	7.9
2-CHLOROETHYLVINYLETHER	ND	50	.83
2-HEXANONE	ND	50	1
4-METHYL-2-PENTANONE	ND	50	1
ACETONE	ND	50	10
BENZENE	ND	5	.85
BROMODICHLOROMETHANE	ND	5	.33
BROMOFORM	ND	5	.29
BROMOMETHANE	ND	5	1.5
CARBON DISULFIDE	ND	5	1.3
CARBON TETRACHLORIDE	ND	5	1.3
CHLOROBENZENE	ND	5	.68
CHLOROETHANE	ND	5	2.9
CHLOROFORM	ND	5	.85
CHLOROMETHANE	ND	5	1.7
CIS-1,2-DICHLOROETHENE	ND	5	.97
CIS-1,3-DICHLOROPROPENE	ND	5	.47
BROMOCHLOROMETHANE	ND	5	.29
ETHYLBENZENE	ND	5	.72
MTBE	ND	10	.96
METHYLENE CHLORIDE	5.9B	5	1.8
STYRENE	ND	5	.58
TETRACHLOROETHENE	ND	5	1.2
TOLUENE	ND	5	.92
TRANS-1,2-DICHLOROETHENE	ND	5	1.5
TRANS-1,3-DICHLOROPROPENE	ND	5	.45
TRICHLOROETHENE	ND	5	.9
VINYL ACETATE	ND	50	6.2
VINYL CHLORIDE	ND	5	1.7
XYLENES	ND	5	2.4

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	88	62-139
TOLUENE-D8	94	75-125
BROMOFLUOROBENZENE	93	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:	01/15/00
Batch No.	: 00A037	Date Extracted:	01/15/00 01:41
Sample ID:	MBLK1W	Date Analyzed:	01/15/00 01:41
Lab Samp ID:	VOA1401Q	Dilution Factor:	1
Lab File ID:	RAV225	Matrix :	WATER
Ext Btch ID:	VOA1401	% Moisture :	NA
Calib. Ref.:	RAV221	Instrument ID :	T-001

PARAMETERS	RESULTS (ug/L)	PRL (ug/L)	MDL (ug/L)
1,1,1-TRICHLOROETHANE	ND	5	1.1
1,1,2,2-TETRACHLOROETHANE	ND	5	.49
1,1,2-TRICHLOROETHANE	ND	5	.52
1,1-DICHLOROETHANE	ND	5	1.2
1,1-DICHLOROETHENE	ND	5	2
1,2-DICHLOROETHANE	ND	5	.58
1,2-DICHLOROPROPANE	ND	5	.53
2-BUTANONE	ND	50	7.9
2-CHLOROETHYLVINYLETHER	ND	50	.83
2-HEXANONE	ND	50	1
4-METHYL-2-PENTANONE	ND	50	1
ACETONE	ND	50	10
BENZENE	ND	5	.85
BROMODICHLOROMETHANE	ND	5	.33
BROMOFORM	ND	5	.29
BROMOMETHANE	ND	5	1.5
CARBON DISULFIDE	ND	5	1.3
CARBON TETRACHLORIDE	ND	5	1.3
CHLOROBENZENE	ND	5	.68
CHLOROETHANE	ND	5	2.9
CHLOROFORM	ND	5	.85
CHLOROMETHANE	ND	5	1.7
CIS-1,2-DICHLOROETHENE	ND	5	.97
CIS-1,3-DICHLOROPROPENE	ND	5	.47
DIBROMOCHLOROMETHANE	ND	5	.29
ETHYLBENZENE	ND	5	.72
MTBE	ND	10	.96
METHYLENE CHLORIDE	3.5J	5	1.8
STYRENE	ND	5	.58
TETRACHLOROETHENE	ND	5	1.2
TOLUENE	ND	5	.92
TRANS-1,2-DICHLOROETHENE	ND	5	1.5
TRANS-1,3-DICHLOROPROPENE	ND	5	.45
TRICHLOROETHENE	ND	5	.9
VINYL ACETATE	ND	50	6.2
VINYL CHLORIDE	ND	5	1.7
XYLENES	ND	5	2.4

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	90	62-139
TOLUENE-D8	96	75-125
BROMOFLUOROBENZENE	93	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.: 00A037
METHOD: METHOD 5030A/8260A

MATRIX:	WATER			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK1W				
LAB SAMP ID:	VOA1401Q	VOA1401L	VOA1401C		
LAB FILE ID:	RAV225	RAV222	RAV223		
DATE EXTRACTED:	01/15/0001:41	01/14/0023:59	01/15/0000:33	DATE COLLECTED:	NA
DATE ANALYZED:	01/15/0001:41	01/14/0023:59	01/15/0000:33	DATE RECEIVED:	01/15/00
PREP. BATCH:	VOA1401	VOA1401	VOA1401		
CALIB. REF:	RAV221	RAV221	RAV221		

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	19.8	99	20	19.8	99	0	75-125	20
Benzene	ND	20	19.1	96	20	19.6	98	2	75-125	20
Chlorobenzene	ND	20	19.8	99	20	20	100	1	75-125	20
Toluene	ND	20	21.3	106	20	20.8	104	2	74-125	20
Trichloroethene	ND	20	21.8	109	20	22.1	111	1	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	47.4	95	62-139
Toluene-d8	50	48.5	97	50	49.4	99	75-125
Bromofluorobenzene	50	48.9	98	50	49.2	98	75-125

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

Client	: IT CORPORATION	Date Collected:	NA
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	01/15/00
Batch No.	: 00A037	Date Extracted:	01/15/00 01:41
Sample ID:	MBLK1S	Date Analyzed:	01/15/00 01:41
Lab Samp ID:	VOA1401Q	Dilution Factor:	1
Lab File ID:	RAV225	Matrix :	SOIL
Ext Btch ID:	VOA1401	% Moisture :	NA
Calib. Ref.:	RAV221	Instrument ID :	T-001

PARAMETERS	RESULTS (ug/kg)	PRL (ug/kg)	MDL (ug/kg)
1,1,1-TRICHLOROETHANE	ND	5	.33
1,1,2,2-TETRACHLOROETHANE	ND	5	.33
1,1,2-TRICHLOROETHANE	ND	5	.23
1,1-DICHLOROETHANE	ND	5	.3
1,1-DICHLOROETHENE	ND	5	.54
1,2-DICHLOROETHANE	ND	5	.33
1,2-DICHLOROPROPANE	ND	5	.38
2-BUTANONE	ND	50	5.1
2-CHLOROETHYLVINYLETHER	ND	50	.17
2-HEXANONE	ND	50	1.2
4-METHYL-2-PENTANONE	ND	50	1.1
ACETONE	ND	50	4.1
BENZENE	ND	5	.25
BROMODICHLOROMETHANE	ND	5	.26
BROMOFORM	ND	5	.28
BROMOMETHANE	ND	5	.64
CARBON DISULFIDE	ND	5	.13
CARBON TETRACHLORIDE	ND	5	.79
CHLOROBENZENE	ND	5	.2
CHLOROETHANE	ND	5	1.8
CHLOROFORM	ND	5	.42
CHLOROMETHANE	ND	5	2.1
CIS-1,2-DICHLOROETHENE	ND	5	.29
CIS-1,3-DICHLOROPROPENE	ND	5	.22
DIBROMOCHLOROMETHANE	ND	5	.079
ETHYLBENZENE	ND	5	.39
MTBE	ND	10	.37
METHYLENE CHLORIDE	3.5J	5	.41
STYRENE	ND	5	.44
TETRACHLOROETHENE	ND	5	.24
TOLUENE	ND	5	.31
TRANS-1,2-DICHLOROETHENE	ND	5	.29
TRANS-1,3-DICHLOROPROPENE	ND	5	.67
TRICHLOROETHENE	ND	5	.25
VINYL ACETATE	ND	50	.72
VINYL CHLORIDE	ND	5	1
XYLENES	ND	5	1.1

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	90	52-149
TOLUENE-D8	96	65-135
BROMOFLUOROBENZENE	93	65-135

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.: 00A037
METHOD: METHOD 5030A/8260A

MATRIX:	SOIL			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK1S				
LAB SAMP ID:	VOA1401Q	VOA1401L	VOA1401C		
LAB FILE ID:	RAV225	RAV222	RAV223		
DATE EXTRACTED:	01/15/0001:41	01/14/0023:59	01/15/0000:33	DATE COLLECTED:	NA
DATE ANALYZED:	01/15/0001:41	01/14/0023:59	01/15/0000:33	DATE RECEIVED:	01/15/00
PREP. BATCH:	VOA2201	VOA2201	VOA2201		
CALIB. REF:	RAV221	RAV221	RAV221		

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
1,1-Dichloroethene	ND	20	19.8	99	20	19.8	99	0	65-135	30
Benzene	ND	20	19.1	96	20	19.6	98	2	65-135	30
Chlorobenzene	ND	20	19.8	99	20	20	100	1	65-135	30
Toluene	ND	20	21.3	106	20	20.8	104	2	64-135	30
Trichloroethene	ND	20	21.8	109	20	22.1	111	1	61-135	30

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT (%)
1,2-Dichlorethane-d4	50	49.3	99	50	47.4	95	52-149
Toluene-d8	50	48.5	97	50	49.4	99	65-135
Bromofluorobenzene	50	48.9	98	50	49.2	98	65-135

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
BATCH NO.: 00A037
METHOD: METHOD 5030A/8260A

MATRIX:	SOIL			% MOISTURE:	4.1
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	18609-2635				
LAB SAMP ID:	A037-02	A037-02M	A037-02S		
LAB FILE ID:	RAV231	RAV236	RAV237		
DATE EXTRACTED:	01/15/0005:05	01/15/0007:55	01/15/0008:29	DATE COLLECTED:	01/13/00
DATE ANALYZED:	01/15/0005:05	01/15/0007:55	01/15/0008:29	DATE RECEIVED:	01/13/00
PREP. BATCH:	VOA1401	VOA1401	VOA1401		
CALIB. REF:	RAV221	RAV221	RAV221		

ACCESSION:

PARAMETER	SMPL RSLT (ug/kg)	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	SPIKE AMT (ug/kg)	MSD RSLT (ug/kg)	MSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
1,1-Dichloroethene	ND	52.1	45.2	87	52.1	50.1	96	10	65-135	30
Benzene	ND	52.1	44.7	86	52.1	46.5	89	4	65-135	30
Chlorobenzene	ND	52.1	47.1	90	52.1	47.8	92	2	65-135	30
Toluene	ND	52.1	49.2	94	52.1	50.3	96	2	64-135	30
Trichloroethene	ND	52.1	52.6	101	52.1	53.9	103	2	61-135	30

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	SPIKE AMT (ug/kg)	MSD RSLT (ug/kg)	MSD % REC	QC LIMIT (%)
1,2-Dichlorethane-d4	52.1	48.9	94	52.1	51.8	99	52-149
Toluene-d8	52.1	49.7	95	52.1	52.5	101	65-135
Bromofluorobenzene	52.1	51	98	52.1	51.7	99	65-135

* : Out side of QC Limit

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

Client	: IT CORPORATION	Date Collected:	NA
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	01/19/00
Batch No.	: 00A037	Date Extracted:	01/19/00 15:05
Sample ID:	MBLK2S	Date Analyzed:	01/19/00 15:05
Lab Samp ID:	VOA1901Q	Dilution Factor:	1
Lab File ID:	RAV317	Matrix :	SOIL
Ext Btch ID:	VOA1901	% Moisture :	NA
Calib. Ref.:	RAV313	Instrument ID :	T-001

PARAMETERS	RESULTS (ug/kg)	PRL (ug/kg)	MDL (ug/kg)
1,1,1-TRICHLOROETHANE	ND	5	.33
1,1,2,2-TETRACHLOROETHANE	ND	5	.33
1,1,2-TRICHLOROETHANE	ND	5	.23
1,1-DICHLOROETHANE	ND	5	.3
1,1-DICHLOROETHENE	ND	5	.54
1,2-DICHLOROETHANE	ND	5	.33
1,2-DICHLOROPROPANE	ND	5	.38
2-BUTANONE	ND	50	5.1
2-CHLOROETHYLVINYLETHER	ND	50	.17
2-HEXANONE	ND	50	1.2
4-METHYL-2-PENTANONE	ND	50	1.1
ACETONE	ND	50	4.1
BENZENE	ND	5	.25
BROMODICHLOROMETHANE	ND	5	.26
BROMOFORM	ND	5	.28
BROMOMETHANE	ND	5	.64
CARBON DISULFIDE	ND	5	.13
CARBON TETRACHLORIDE	ND	5	.79
CHLOROBENZENE	ND	5	.2
CHLOROETHANE	ND	5	1.8
CHLOROFORM	ND	5	.42
CHLOROMETHANE	ND	5	2.1
CIS-1,2-DICHLOROETHENE	ND	5	.29
CIS-1,3-DICHLOROPROPENE	ND	5	.22
DIBROMOCHLOROMETHANE	ND	5	.079
ETHYLBENZENE	ND	5	.39
MTBE	ND	10	.37
METHYLENE CHLORIDE	ND	5	.41
STYRENE	ND	5	.44
TETRACHLOROETHENE	ND	5	.24
TOLUENE	ND	5	.31
TRANS-1,2-DICHLOROETHENE	ND	5	.29
TRANS-1,3-DICHLOROPROPENE	ND	5	.67
TRICHLOROETHENE	ND	5	.25
VINYL ACETATE	ND	50	.72
VINYL CHLORIDE	ND	5	1
XYLENES	ND	5	1.1

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	92	52-149
TOLUENE-D8	101	65-135
BROMOFLUOROBENZENE	102	65-135

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.: 00A037
METHOD: METHOD 5030A/8260A

MATRIX:	SOIL			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK2S				
LAB SAMP ID:	VOA1901Q	VOA1901L	VOA1901C		
LAB FILE ID:	RAV317	RAV314	RAV315		
DATE EXTRACTED:	01/19/0015:05	01/19/0013:23	01/19/0013:57	DATE COLLECTED:	NA
DATE ANALYZED:	01/19/0015:05	01/19/0013:23	01/19/0013:57	DATE RECEIVED:	01/19/00
PREP. BATCH:	VOA2201	VOA2201	VOA2201		
CALIB. REF:	RAV313	RAV313	RAV313		

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
1,1-Dichloroethene	ND	20	19.3	96	20	20	100	4	65-135	30
Benzene	ND	20	21	105	20	21.4	107	2	65-135	30
Chlorobenzene	ND	20	19.8	99	20	20.9	105	6	65-135	30
Toluene	ND	20	20.2	101	20	21.4	107	6	64-135	30
Trichloroethene	ND	20	18.6	93	20	20	100	7	61-135	30

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT (%)
1,2-Dichlorethane-d4	50	47.8	96	50	48.8	98	52-149
Toluene-d8	50	49.2	98	50	50.5	101	65-135
Bromofluorobenzene	50	50.5	101	50	51.6	103	65-135

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

Client	: IT CORPORATION	Date Collected:	NA
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	01/20/00
Btch No.	: 00A037	Date Extracted:	01/20/00 15:59
Sample ID:	MBLK3S	Date Analyzed:	01/20/00 15:59
Lab Samp ID:	VOA2201Q	Dilution Factor:	1
Lab File ID:	RAV360	Matrix :	SOIL
Ext Btch ID:	VOA2201	% Moisture :	NA
Calib. Ref.:	RAV356	Instrument ID :	T-001

PARAMETERS	RESULTS (ug/kg)	PRL (ug/kg)	MDL (ug/kg)
1,1,1-TRICHLOROETHANE	ND	5	.33
1,1,2,2-TETRACHLOROETHANE	ND	5	.33
1,1,2-TRICHLOROETHANE	ND	5	.23
1,1-DICHLOROETHANE	ND	5	.3
1,1-DICHLOROETHENE	ND	5	.54
1,2-DICHLOROETHANE	ND	5	.33
1,2-DICHLOROPROPANE	ND	5	.38
2-BUTANONE	ND	50	5.1
2-CHLOROETHYLVINYLETHER	ND	50	.17
2-HEXANONE	ND	50	1.2
4-METHYL-2-PENTANONE	ND	50	1.1
ACETONE	ND	50	4.1
BENZENE	ND	5	.25
BROMODICHLOROMETHANE	ND	5	.26
BROMOFORM	ND	5	.28
BROMOMETHANE	ND	5	.64
CARBON DISULFIDE	ND	5	.13
CARBON TETRACHLORIDE	ND	5	.79
CHLOROBENZENE	ND	5	.2
CHLOROETHANE	ND	5	1.8
CHLOROFORM	ND	5	.42
CHLOROMETHANE	ND	5	2.1
CIS-1,2-DICHLOROETHENE	ND	5	.29
CIS-1,3-DICHLOROPROPENE	ND	5	.22
DIBROMOCHLOROMETHANE	ND	5	.079
ETHYLBENZENE	ND	5	.39
MTBE	ND	10	.37
METHYLENE CHLORIDE	ND	5	.41
STYRENE	ND	5	.44
TETRACHLOROETHENE	ND	5	.24
TOLUENE	ND	5	.31
TRANS-1,2-DICHLOROETHENE	ND	5	.29
TRANS-1,3-DICHLOROPROPENE	ND	5	.67
TRICHLOROETHENE	ND	5	.25
VINYL ACETATE	ND	50	.72
VINYL CHLORIDE	ND	5	1
XYLENES	ND	5	1.1

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	96	52-149
TOLUENE-D8	95	65-135
BROMOFLUOROBENZENE	97	65-135

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.: 00A037
METHOD: METHOD 5030A/8260A

MATRIX:	SOIL			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK3S				
LAB SAMP ID:	VOA2201Q	VOA2201L	VOA2201C		
LAB FILE ID:	RAV360	RAV357	RAV358		
DATE EXTRACTED:	01/20/0015:59	01/20/0014:17	01/20/0014:51	DATE COLLECTED:	NA
DATE ANALYZED:	01/20/0015:59	01/20/0014:17	01/20/0014:51	DATE RECEIVED:	01/20/00
PREP. BATCH:	VOA2201	VOA2201	VOA2201		
CALIB. REF:	RAV356	RAV356	RAV356		

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
1,1-Dichloroethene	ND	20	19.1	95	20	18.8	94	1	65-135	30
Benzene	ND	20	20	100	20	19.6	98	2	65-135	30
Chlorobenzene	ND	20	20.5	102	20	19.5	98	5	65-135	30
Toluene	ND	20	21	105	20	19.3	97	8	64-135	30
Trichloroethene	ND	20	19.6	98	20	19.1	95	3	61-135	30

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT (%)
1,2-Dichlorethane-d4	50	51	102	50	48	96	52-149
Toluene-d8	50	49.3	99	50	47.1	94	65-135
Bromofluorobenzene	50	50.1	100	50	48.8	98	65-135

4526B

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

Date: 02-07-2000
EMAX Batch No.: 00A037B

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 01/13/00 and requested analyses on 01/26/00. The data reported include :

Sample ID	Control #	Col Date	Matrix	Analysis
18609-2636	A037-03	01/13/00	Soil	SPLP M8015
18609-2638	A037-05	01/13/00	Soil	SPLP BTEX SPLP M8015

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 SW1312/M8015
TOTAL PETROLEUM HYDROCARBONS BY PURGE & TRAP

Client : IT CORPORATION
Project : MCAS EL TORO/18609/D.O. 70
Batch No. : 00A037B

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	VAA4839B	ND	80	1	NA	.1	.018	02/02/0018:52	02/02/0018:52	EA16092A	EA16082A	VAA4839	NA	02/02/00
LCS1W	VAA4839L	1.14	94	1	NA	.1	.018	02/02/0020:36	02/02/0020:36	EA16095A	EA16094A	VAA4839	NA	02/02/00
LCD1W	VAA4839C	1.09	90	1	NA	.1	.018	02/02/0021:11	02/02/0021:11	EA16096A	EA16094A	VAA4839	NA	02/02/00
MBLK2W	VAA4339B	ND	69	1	NA	.1	.018	01/28/0022:57	01/28/0022:57	EA15017A	EA15016A	VAA4339	NA	01/28/00
LCS2W	VAA4339L	.914	80	1	NA	.1	.018	01/28/0023:31	01/28/0023:31	EA15018A	EA15016A	VAA4339	NA	01/28/00
LCD2W	VAA4339C	.831	79	1	NA	.1	.018	01/29/0000:06	01/29/0000:06	EA15019A	EA15016A	VAA4339	NA	01/29/00
MBLK3W	TVA003SB	ND	67	1	NA	.1	.018	01/29/0001:14	01/29/0001:14	EA15021A	EA15016A	VAA4349	NA	01/29/00
18609-2636	A037-03	2.9	87	5	NA	.5	.09	02/02/0022:54	02/02/0022:54	EA16099A	EA16094A	VAA4839	01/13/00	01/13/00
18609-2638	A037-05	3.9	89	5	NA	.5	.09	02/02/0023:28	02/02/0023:28	EA16100A	EA16094A	VAA4839	01/13/00	01/13/00
18609-2638MS	A037-05M	9.16	98	5	NA	.5	.09	02/03/0000:02	02/03/0000:02	EA16101A	EA16094A	VAA4839	01/13/00	01/13/00
18609-2638MSD	A037-05S	7.7	71	5	NA	.5	.09	02/03/0000:37	02/03/0000:37	EA16102A	EA16094A	VAA4839	01/13/00	01/13/00

SURR : Bromofluorobenzene
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.: 00A037B
METHOD: METHOD SW1312/M8015

MATRIX:	WATER			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK1W				
LAB SAMP ID:	VAA4839B	VAA4839L	VAA4839C		
LAB FILE ID:	EA16092A	EA16095A	EA16096A		
DATE EXTRACTED:	02/02/0018:52	02/02/0020:36	02/02/0021:11	DATE COLLECTED:	NA
DATE ANALYZED:	02/02/0018:52	02/02/0020:38	02/02/0021:11	DATE RECEIVED:	02/02/00
PREP. BATCH:	VAA4839	VAA4839	VAA4839		
CALIB. REF:	EA16082A	EA16094A	EA16094A		

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	1.1	1.14	104	1.1	1.09	100	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	.05	.0469	94	.05	.0448	90	65-135

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
BATCH NO.: 00A037B
METHOD: METHOD SW1312/M8015

MATRIX:	WATER			% MOISTURE:	NA
DILUTION FACTOR:	5	5	5		
SAMPLE ID:	18609-2638				
LAB SAMP ID:	A037-05	A037-05M	A037-05S		
LAB FILE ID:	EA16100A	EA16101A	EA16102A		
DATE EXTRACTED:	02/02/0023:28	02/03/0000:02	02/03/0000:37	DATE COLLECTED:	01/13/00
DATE ANALYZED:	02/02/0023:28	02/03/0000:02	02/03/0000:37	DATE RECEIVED:	01/13/00
PREP. BATCH:	VAA4839	VAA4839	VAA4839		
CALIB. REF:	EA16094A	EA16094A	EA16094A		

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	3.94	5.5	9.16	95	5.5	7.7	68	17	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	.25	.246	98	.25	.178	71	65-135

EPA METHOD SW1312/8021
SPLP/BTEX

Client	: IT CORPORATION	Date Collected:	01/13/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	01/13/00
Batch No.	: 00A037B	Date Extracted:	02/02/00 23:28
Sample ID:	18609-2638	Date Analyzed:	02/02/00 23:28
Lab Samp ID:	A037-05	Dilution Factor:	5
Lab File ID:	EA16100B	Matrix :	WATER
Ext Btch ID:	VAA4839	% Moisture :	NA
Calib. Ref.:	EA16093B	Instrument ID :	GCT039

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
TOTAL XYLENES	37	7.5	1.4

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
BROMOFLUOROBENZENE	100	60-140

RL: Reporting Limit
Extraction Date: 01/28/00 11:00

EPA METHOD SW1312/8021
SPLP/BTEX

Client	: IT CORPORATION	Date Collected:	NA
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	02/02/00
Batch No.	: 00A037B	Date Extracted:	02/02/00 18:52
Sample ID:	MBLK1W	Date Analyzed:	02/02/00 18:52
Lab Samp ID:	VAA4839B	Dilution Factor:	1
Lab File ID:	EA16092B	Matrix :	WATER
Ext Btch ID:	VAA4839	% Moisture :	NA
Calib. Ref.:	EA16081B	Instrument ID :	GCT039

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
TOTAL XYLENES	ND	1.5	.29

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
BROMOFLUOROBENZENE	94	60-140

RL: Reporting Limit

EPA METHOD SW1312/8021
SPLP/BTEX

Client	: IT CORPORATION	Date Collected:	NA
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	01/28/00
Batch No.	: 00A037B	Date Extracted:	01/28/00 22:57
Sample ID:	MBLK2W	Date Analyzed:	01/28/00 22:57
Lab Samp ID:	VAA4339B	Dilution Factor:	1
Lab File ID:	EA15017B	Matrix :	WATER
Ext Btch ID:	VAA4339	% Moisture :	NA
Calib. Ref.:	EA15015B	Instrument ID :	GCT039

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
TOTAL XYLENES	ND	1.5	.29

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
BROMOFLUOROBENZENE	84	60-140

RL: Reporting Limit

EPA METHOD SW1312/8021
SPLP/BTEX

Client	: IT CORPORATION	Date Collected:	NA
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	01/29/00
Batch No.	: 00A037B	Date Extracted:	01/29/00 01:14
Sample ID	: MBLK3W	Date Analyzed:	01/29/00 01:14
Lab Samp ID	: TVA003SB	Dilution Factor:	1
Lab File ID	: EA15021B	Matrix :	WATER
Ext Btch ID	: VAA4349	% Moisture :	NA
Calib. Ref.	: EA15015B	Instrument ID :	GCT039

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
TOTAL XYLENES	ND	1.5	.29

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
BROMOFLUOROBENZENE	74	60-140

RL: Reporting Limit
Extraction Date: 01/28/00 11:00

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
BATCH NO.: 00A037B
METHOD: EPA 1312B/8021

MATRIX: WATER % MOISTURE: NA

DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK1W				
LAB SAMP ID:	VAA4839B	VAA4839L	VAA4839C		
LAB FILE ID:	EA16092B	EA16095B	EA16096B		
DATE EXTRACTED:	02/02/0018:52	02/02/0020:36	02/02/0021:11	DATE COLLECTED:	NA
DATE ANALYZED:	02/02/0018:52	02/02/0020:36	02/02/0021:11	DATE RECEIVED:	02/02/00
PREP. BATCH:	VAA4839	VAA4839	VAA4839		
CALIB. REF:	EA16081B	EA16093B	EA16093B		

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 (%)
Total Xylenes	ND	93.4	95.2	102	93.4	91	97	5	61-129	30

SURROGATE PARAMETER	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	QC LIMIT (%)
Bromofluorobenzene	50	50.8	102	50	49	98	60-140

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
BATCH NO.: 00A037B
METHOD: EPA 1312B/8021

MATRIX:	WATER			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK2W				
LAB SAMP ID:	VAA4339B	VAA4339L	VAA4339C		
LAB FILE ID:	EA15017B	EA15018B	EA15019B		
DATE EXTRACTED:	01/28/0022:57	01/28/0023:31	01/29/0000:06	DATE COLLECTED:	NA
DATE ANALYZED:	01/28/0022:57	01/28/0023:31	01/29/0000:06	DATE RECEIVED:	01/29/00
PREP. BATCH:	VAA4339	VAA4339	VAA4339		
CALIB. REF:	EA15015B	EA15015B	EA15015B		

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 (%)
Total Xylenes	ND	93.4	80.1	86	93.4	73.8	79	8	61-129	30

SURROGATE PARAMETER	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	QC LIMIT (%)
Bromofluorobenzene	50	45.5	91	50	44.9	90	60-140

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
BATCH NO.: 00A037B
METHOD: EPA 1312B/8021

MATRIX:	WATER			% MOISTURE:	NA
DILUTION FACTOR:	5	5	5		
SAMPLE ID:	18609-2638				
LAB SAMP ID:	A037-05	A037-05M	A037-05S		
LAB FILE ID:	EA16100B	EA16101B	EA16102B		
DATE EXTRACTED:	02/02/0023:28	02/03/0000:02	02/03/0000:37	DATE COLLECTED:	01/13/00
DATE ANALYZED:	02/02/0023:28	02/03/0000:02	02/03/0000:37	DATE RECEIVED:	01/13/00
PREP. BATCH:	VAA4839	VAA4839	VAA4839		
CALIB. REF:	EA16093B	EA16093B	EA16093B		

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 (%)
Total Xylenes	36.8	467	492	97	467	394	76	22	61-129	30

SURROGATE PARAMETER	SPIKE AMT (ug/L)	MS RSLT (ug/L)	MS % REC	SPIKE AMT (ug/L)	MSD RSLT (ug/L)	MSD % REC	QC LIMIT (%)
Bromofluorobenzene	250	257	103	250	168	67	60-140

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

Date: 02-23-2000
EMAX Batch No.: 00A037B

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 01/13/00 and requested analyses on 01/26/00. The data reported include :

Sample ID	Control #	Col Date	Matrix	Analysis
18609-2636	A037-03	01/13/00	Soil	SPLP M8015
18609-2638	A037-05	01/13/00	Soil	SPLP M8015

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 SW1312/M8015

TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

Client : IT CORPORATION
Project : MCAS EL TORO/18609/D.O. 70
Batch No. : 00A037B

Matrix : WATER
Instrument ID : GCT043

SAMPLE ID	EMAX SAMPLE ID	RESULTS (mg/L)	SUR1 (%)	SUR2 (%)	DLF	MOIST	RL (mg/L)	MDL (mg/L)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1W	DSA050WB	ND	110	101	1	NA	.1	.038	02/02/0018:45	02/01/0017:00	DB01004A	DB01002A	DSA050W	NA	02/01/00
LCS1W	DSA050WL	5.16	124	108	1	NA	.1	.038	02/02/0019:27	02/01/0017:00	DB01005A	DB01002A	DSA050W	NA	02/01/00
LCD1W	DSA050WC	4.74	100	105	1	NA	.1	.038	02/02/0020:09	02/01/0017:00	DB01006A	DB01002A	DSA050W	NA	02/01/00
MBLK2W	TXA004S	ND	98	93	1	NA	.1	.038	02/02/0022:14	02/01/0017:00	DB01009A	DB01002A	DSA050W	NA	02/01/00
18609-2636	A037-03	1.3**	90	100	1	NA	.1	.038	02/03/0003:47	02/01/0017:00	DB01017A	DB01014A	DSA050W	01/13/00	01/13/00
18609-2638	A037-05	2.4**	113	102	1	NA	.1	.038	02/03/0004:29	02/01/0017:00	DB01018A	DB01014A	DSA050W	01/13/00	01/13/00

PQL : Project Quantitation Limit
SURR1 : Bromobenzene 65-135 60-140
SURR2 : Hexacosane 60-140 55-150
H-C RANGE: C7 -C18 = JP5
C10-C24 = Diesel
C18-C34 = Motor Oil
C6 -C12 = Gas
** : Chromatograms show JP5 pattern

5004

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
BATCH NO.: 00A037B
METHOD: METHOD SW1312/M8015

MATRIX:	WATER			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK1W				
LAB SAMP ID:	DSA050WB	DSA050WL	DSA050WC		
LAB FILE ID:	DB01004A	DB01005A	DB01006A		
DATE EXTRACTED:	02/01/0017:00	02/01/0017:00	02/01/0017:00	DATE COLLECTED:	NA
DATE ANALYZED:	02/02/0018:45	02/02/0019:27	02/02/0020:09	DATE RECEIVED:	02/01/00
PREP. BATCH:	DSA050W	DSA050W	DSA050W		
CALIB. REF:	DB01002A	DB01002A	DB01002A		

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	5.16	103	5	4.74	95	8	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	1.24	124	1	1	100	65-135
Hexacosane	1	1.08	108	1	1.05	105	60-140

5088

MPLETED (SW 1/29/00 NG 2/1/00

he group

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

CHAIN-OF-CUSTODY RECORD

PROJECT DATA MANAGER'S COPY

A 10636

FORM 0019 REV. 9-99

Tank Farm 398

LAB COORDINATOR	LAB COORDINATOR'S PHONE	LAB COORDINATOR'S FAX	LABORATORY SERVICE ID	LABORATORY CONTACT	MAIL REPORT (COMPANY NAME)
M. Concepcion	949-660-7550	949-475-5433	00-A044	EMAX	IT Group

PROJECT NAME	PROJECT LOCATION	PROJECT NUMBER	LABORATORY PHONE	LABORATORY FAX	RECIPIENT NAME
El Toro - D070	MCAS El Toro, CA	18609	310-618-8889	—	Dwayne Ishida

PROJECT CONTACT	PROJECT PHONE NUMBER	PROJECT FAX	LABORATORY ADDRESS	ADDRESS
M. Concepcion	949-451-1667	949-475-5433	630 Maple	3347 Michelson #200

PROJECT ADDRESS	CITY, STATE AND ZIP CODE	CLIENT	CITY, STATE AND ZIP CODE	CITY, STATE AND ZIP CODE
—	—	SWDIV	Torrance, CA	Irvine, CA

PROJECT MANAGER	PROJECT MANAGER'S PHONE	PROJECT MANAGER'S FAX
R. Sedlak	949-660-5446	—

Analyze "X" Cap.

Item	Sample Identifier	Matrix (a.s)	Date 2000	Time	Preserved	# of Cont.	QC Level	T.A.T.	Analyses: 8015-Diesel	8015-JP-5	8015-GAS	8260+MTBS	EPA 1312 (Hold)				Comments
1	18609-2641	W	1-14	0800	4°C	2	3	5 day				X					EPA 1312 on hold
2	18609-2642	S	1-14	0902	4°C	1	3	5 Day	X	X	X	X	X				
3	18609-2643	S	1-14	0920	4°C	1	3	5 Day	X	X	X	X	X				SPLP 8021
4	18609-~~2643~~ 2644 (a.s)	S	1-14	0923	4°C	1	4	5 Day	X	X	X	X	X				SPLP EXT / SPLP 8021
5	18609-2645	S	1-14	1002	4°C	1	3	5 Day	X	X	X	X	X				
6	18609-2646	S	1-14	1124	4°C	1	3	5 Day	X	X	X	X	X				SPLP EXT / SPLP 8021
7	18609-2647	W	1-14	1215	4°C	8	3	5 Day	X	X	X	X					
8	18609-2648	S	1-14	1327	4°C	1	3	5 Day	X	X	X	X	X				SPLP 8021
9	18609-2649	S	1-14	1419	4°C	1	3	5 Day	X	X	X	X	X				SPLP EXT / SPLP 8021
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]	1-14-00	2:10	

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

Sample Point Location	G	C	F	QC
1) Trip Blank for CB 398-02	X			X
2) CB398-02 at 20-20½'	X			
3) CB 398-02 at 39.5-40	X			
4) CB 398-02 at 40-40.5' (Dup)	X			X
5) CB 398-02 at 61-61.5	X			
6) CB 398-02 at 104.5-105	X			
7) EQIPMENT RINSATE FOR CB 398-02	X			X
8) CB398-02 at 125-125.5'	X			
9) CB398-02 at 149.5-150	X			
10) ~~CB 398-02 at~~ a.s				

Comments

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

(SPLP 4682) 4605

AC

[redacted]

4526C

C

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

Date: 02-06-2000
EMAX Batch No.: 00A044

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 01/14/00. The data reported include :

Sample ID	Control #	Col Date	Matrix	Analysis
18609-2641	A044-01	01/14/00	Water	Volatile Organics by GC/MS
18609-2642	A044-02	01/14/00	Soil	Modified 8015 by Extraction
				Modified 8015 by Purge & Trap
				Volatile Organics by GC/MS
18609-2643	A044-03	01/14/00	Soil	Volatile Organics by GC/MS
				Modified 8015 by Extraction
				Modified 8015 by Purge & Trap
18609-2644	A044-04	01/14/00	Soil	Modified 8015 by Extraction
				Modified 8015 by Purge & Trap
				Volatile Organics by GC/MS
18609-2645	A044-05	01/14/00	Soil	Volatile Organics by GC/MS
				Modified 8015 by Extraction
				Modified 8015 by Purge & Trap
18609-2646	A044-06	01/14/00	Soil	Modified 8015 by Purge & Trap
				Modified 8015 by Extraction
				Volatile Organics by GC/MS
18609-2647	A044-07	01/14/00	Water	Modified 8015 by Purge & Trap
				Modified 8015 by Extraction
				Volatile Organics by GC/MS

Sample ID	Control #	Col Date	Matrix	Analysis
18609-2648	A044-08	01/14/00	Soil	Volatile Organics by GC/MS
				Modified 8015 by Extraction
				Modified 8015 by Purge & Trap
18609-2649	A044-09	01/14/00	Soil	Modified 8015 by Purge & Trap
				Modified 8015 by Extraction
				Volatile Organics by GC/MS

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
Project : MCAS EL TORO/18609/D.O. 70
Batch No. : 00A044

Matrix : SOIL
Instrument ID : GCT019

SAMPLE ID	EMAX SAMPLE ID	RESULTS (mg/kg)	SUR1 (%)	SUR2 (%)	DLF	MOIST	RL (mg/kg)	MDL (mg/kg)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1S	DSA020SB	ND	75	71	1	NA	10	2.1	01/23/0018:12	01/17/0014:00	TA10078A	TA10074A	DSA020S	NA	01/17/00
LCS1S	DSA020SL	531	80	74	1	NA	10	2.1	01/23/0017:35	01/17/0014:00	TA10077A	TA10074A	DSA020S	NA	01/17/00
18609-2642	A044-02	900	103	97	1	28.8	14	2.94	01/24/0003:31	01/17/0014:00	TA10093A	TA10086A	DSA020S	01/14/00	01/14/00
18609-2643	A044-03	12000	DO	DO	20	26.8	273	57.3	01/25/0020:22	01/17/0014:00	TA11016A	TA11012A	DSA020S	01/14/00	01/14/00
18609-2644	A044-04	34000	DO	DO	50	18.1	611	128	01/25/0021:00	01/17/0014:00	TA11017A	TA11012A	DSA020S	01/14/00	01/14/00
18609-2645	A044-05	8700	DO	DO	20	4.1	209	43.7	01/25/0021:37	01/17/0014:00	TA11018A	TA11012A	DSA020S	01/14/00	01/14/00
18609-2646	A044-06	17000**	DO	DO	50	8.3	545	114	01/25/0022:14	01/17/0014:00	TA11019A	TA11012A	DSA020S	01/14/00	01/14/00
18609-2648	A044-08	11000**	DO	DO	20	7.1	215	45.1	01/25/0022:51	01/17/0014:00	TA11020A	TA11012A	DSA020S	01/14/00	01/14/00
18609-2649	A044-09	11000**	DO	DO	20	12.6	229	48	01/25/0023:28	01/17/0014:00	TA11021A	TA11012A	DSA020S	01/14/00	01/14/00

QC LIMIT : (SOIL) 60-140 55-150
QC LIMIT : (WATER) 65-135 60-145
SURR1 : Bromobenzene
SURR2 : Hexacosane
RL : Reporting Limit
DO : Diluted Out
** : Chromatogram shows a mixture of JP5 and Diesel. All results were quantitated from diesel calibration.

METHOD M8015
TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

Client : IT CORPORATION
Project : MCAS EL TORO/18609/D.O. 70
Batch No. : 00A044

Matrix : WATER
Instrument ID : GCT019

SAMPLE ID	EMAX SAMPLE ID	RESULTS (mg/L)	SUR1 (%)	SUR2 (%)	DLF	MOIST	RL (mg/L)	MDL (mg/L)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1W	DSA023WB	ND	79	88	1	NA	.1	.038	01/21/0011:20	01/18/0016:00	TA09058A	TA09055A	DSA023W	NA	01/18/00
LCS1W	DSA023WL	5.28	69	86	1	NA	.1	.038	01/20/0020:24	01/18/0016:00	TA09034A	TA09031A	DSA023W	NA	01/18/00
LCD1W	DSA023WC	5.21	70	86	1	NA	.1	.038	01/20/0021:02	01/18/0016:00	TA09035A	TA09031A	DSA023W	NA	01/18/00
18609-2647	A044-07	.11	73	85	.96	NA	.096	.0365	01/22/0012:22	01/18/0016:00	TA10030A	TA10026A	DSA023W	01/14/00	01/14/00

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.: 00A044
METHOD: METHOD M8015

MATRIX:	WATER			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK1W				
LAB SAMP ID:	DSA023WB	DSA023WL	DSA023WC		
LAB FILE ID:	TA09058A	TA09034A	TA09035A		
DATE EXTRACTED:	01/18/0016:00	01/18/0016:00	01/18/0016:00	DATE COLLECTED:	NA
DATE ANALYZED:	01/21/0011:20	01/20/0020:24	01/20/0021:02	DATE RECEIVED:	01/18/00
PREP. BATCH:	DSA023W	DSA023W	DSA023W		
CALIB. REF:	TA09055A	TA09031A	TA09031A		

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	5.28	106	5	5.21	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	.691	69	1	.697	70	65-135
Hexacosane	1	.861	86	1	.856	86	60-145

EMAX QUALITY CONTROL DATA
LCS ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
BATCH NO.: 00A044
METHOD: METHOD M8015

==========

MATRIX:	SOIL		% MOISTURE:	NA
DILUTION FACTOR:	1	1		
SAMPLE ID:	MBLK1S			
LAB SAMP ID:	DSA020SB	DSA020SL		
LAB FILE ID:	TA10078A	TA10077A		
DATE EXTRACTED:	01/17/0014:00	01/17/0014:00	DATE COLLECTED:	NA
DATE ANALYZED:	01/23/0018:12	01/23/0017:35	DATE RECEIVED:	01/17/00
PREP. BATCH:	DSA020S	DSA020S		
CALIB. REF:	TA10074A	TA10074A		

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	QC LIMIT (%)
Diesel	ND	500	531	106	51-153

==========

SURROGATE PARAMETER	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	QC LIMIT (%)
Bromobenzene	100	79.6	80	60-140
Hexacosane	100	74.1	74	55-150

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

Client : IT CORPORATION
Project : MCAS EL TORO/18609/D.O. 70
Batch No. : 00A044

Matrix : SOIL
Instrument ID : GCT039

SAMPLE ID	EMAX SAMPLE ID	RESULTS (mg/kg)	SURR (%)	DLF	MOIST	RL (mg/kg)	MDL (mg/kg)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1S	VAA2339B	ND	82	1	NA	1	.088	01/19/0000:09	01/19/0000:09	EA10064A	EA10063A	VAA2339	NA	01/19/00
LCS1S	VAA2339L	5.77	94	1	NA	1	.088	01/19/0000:45	01/19/0000:45	EA10065A	EA10063A	VAA2339	NA	01/19/00
LCD1S	VAA2339C	5.8	94	1	NA	1	.088	01/19/0001:20	01/19/0001:20	EA10066A	EA10063A	VAA2339	NA	01/19/00
MBLK2S	VMA2639B	ND	78	10	NA	10	.88	01/20/0003:47	01/20/0003:47	EA11030A	EA11027A	VMA2639	NA	01/20/00
LCS2S	VMA2639X	66	84	10	NA	10	.88	01/20/0015:14	01/20/0015:14	EA11049A	EA11039A	VMA2639	NA	01/20/00
LCD2S	VMA2639C	63.2	89	10	NA	10	.88	01/20/0004:58	01/20/0004:58	EA11032A	EA11027A	VMA2639	NA	01/20/00
18609-2642	A044-02	9**	80	1	28.8	1.4	.124	01/19/0003:43	01/19/0003:43	EA10070A	EA10063A	VAA2339	01/14/00	01/14/00
18609-2643	A044-03	4400**	88	1000	26.8	1370	120	01/20/0014:04	01/20/0014:04	EA11047A	EA11039A	VMA2639	01/14/00	01/14/00
18609-2644	A044-04	7600**	93	1000	18.1	1220	107	01/20/0014:39	01/20/0014:39	EA11048A	EA11039A	VMA2639	01/14/00	01/14/00
18609-2645	A044-05	4600**	76	1000	4.1	1040	91.8	01/20/0017:00	01/20/0017:00	EA11052A	EA11057A	VMA2639	01/14/00	01/14/00
18609-2645MS	A044-05M	150E	152*	1	4.1	1.04	.0918	01/19/0004:54	01/19/0004:54	EA10072A	EA10063A	VAA2339	01/14/00	01/14/00
18609-2645MSD	A044-05S	140E	485*	1	4.1	1.04	.0918	01/19/0005:30	01/19/0005:30	EA10073A	EA10063A	VAA2339	01/14/00	01/14/00
18609-2646	A044-06	8800**	93	1000	8.3	1090	96	01/20/0017:35	01/20/0017:35	EA11053A	EA11051A	VMA2639	01/14/00	01/14/00
18609-2648	A044-08	12000**	97	1000	7.1	1080	94.7	01/18/0010:20	01/18/0010:20	EA11041A	EA11039A	VMA2639	01/14/00	01/14/00
18609-2649	A044-09	10000**	100	1000	12.6	1140	101	01/20/0010:54	01/20/0010:54	EA11042A	EA11039A	VMA2639	01/14/00	01/14/00

SURR : Bromofluorobenzene
PRL : Reporting Limit
E : Value exceed the upper level of the initial calibration
D : Value from dilution
* : Matrix Interferance
** : Presence of heavier HC in the chromatogram

METHOD 5030B/M8015

TOTAL PETROLEUM HYDROCARBONS BY PURGE & TRAP

Client : IT CORPORATION
Project : MCAS EL TORO/18609/D.O. 70
Batch No. : 00A044

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	VAA2139B	ND	84	1	NA	.1	.018	01/17/0016:40	01/17/0016:40	EA10011A	EA10003A	VAA2139	NA	01/17/00
LCS1W	VAA2139L	1.22	97	1	NA	.1	.018	01/17/0017:15	01/17/0017:15	EA10012A	EA10003A	VAA2139	NA	01/17/00
LCD1W	VAA2139C	1.15	99	1	NA	.1	.018	01/17/0017:51	01/17/0017:51	EA10013A	EA10003A	VAA2139	NA	01/17/00
18609-2647	A044-07	ND	82	1	NA	.1	.018	01/17/0020:14	01/17/0020:14	EA10017A	EA10015A	VAA2139	01/14/00	01/14/00
18609-2647MS	A044-07M	1.19	99	1	NA	.1	.018	01/17/0020:50	01/17/0020:50	EA10018A	EA10015A	VAA2139	01/14/00	01/14/00
18609-2647MSD	A044-07S	1.14	97	1	NA	.1	.018	01/17/0021:25	01/17/0021:25	EA10019A	EA10015A	VAA2139	01/14/00	01/14/00

SURR : Bromofluorobenzene
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.: 00A044
METHOD: METHOD 5030B/M8015

==========

MATRIX:	WATER			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK1W				
LAB SAMP ID:	VAA2139B	VAA2139L	VAA2139C		
LAB FILE ID:	EA10011A	EA10012A	EA10013A		
DATE EXTRACTED:	01/17/0016:40	01/17/0017:15	01/17/0017:51	DATE COLLECTED:	NA
DATE ANALYZED:	01/17/0016:40	01/17/0017:15	01/17/0017:51	DATE RECEIVED:	01/17/00
PREP. BATCH:	VAA2139	VAA2139	VAA2139		
CALIB. REF:	EA10003A	EA10003A	EA10003A		

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	1.1	1.22	111	1.1	1.15	105	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	.05	.0486	97	.05	.0494	99	65-135

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
BATCH NO.: 00A044
METHOD: METHOD 5030B/M8015

MATRIX:	SOIL			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK1S				
LAB SAMP ID:	VAA2339B	VAA2339L	VAA2339C		
LAB FILE ID:	EA10064A	EA10065A	EA10066A		
DATE EXTRACTED:	01/19/0000:09	01/19/0000:45	01/19/0001:20	DATE COLLECTED:	NA
DATE ANALYZED:	01/19/0000:09	01/19/0000:45	01/19/0001:20	DATE RECEIVED:	01/19/00
PREP. BATCH:	VAA2339	VAA2339	VAA2339		
CALIB. REF:	EA10063A	EA10063A	EA10063A		

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
Gasoline	ND	5.5	5.77	105	5.5	5.8	105	0	57-146	50

SURROGATE PARAMETER	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	QC LIMIT (%)
Bromofluorobenzene	.25	.235	94	.25	.235	94	60-140

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
BATCH NO.: 00A044
METHOD: METHOD 5030B/M8015

MATRIX:	SOIL			% MOISTURE:	NA
DILUTION FACTOR:	10	10	10		
SAMPLE ID:	MBLK2S				
LAB SAMP ID:	VMA2639B	VMA2639X	VMA2639C		
LAB FILE ID:	EA11030A	EA11049A	EA11032A		
DATE EXTRACTED:	01/20/0003:47	01/20/0015:14	01/20/0004:58	DATE COLLECTED:	NA
DATE ANALYZED:	01/20/0003:47	01/20/0015:14	01/20/0004:58	DATE RECEIVED:	01/20/00
PREP. BATCH:	VMA2639	VMA2639	VMA2639		
CALIB. REF:	EA11027A	EA11039A	EA11027A		

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
Gasoline	ND	55	66	120	55	63.2	115	4	57-146	50

SURROGATE PARAMETER	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	QC LIMIT (%)
Bromofluorobenzene	2.5	2.1	84	2.5	2.24	89	60-140

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
BATCH NO.: 00A044
METHOD: METHOD 5030B/M8015

MATRIX:	SOIL			% MOISTURE:	4.1
DILUTION FACTOR:	1000	1	1		
SAMPLE ID:	18609-2645				
LAB SAMP ID:	A044-05	A044-05M	A044-05S		
LAB FILE ID:	EA11052A	EA10072A	EA10073A		
DATE EXTRACTED:	01/20/0017:00	01/19/0004:54	01/19/0005:30	DATE COLLECTED:	01/14/00
DATE ANALYZED:	01/20/0017:00	01/19/0004:54	01/19/0005:30	DATE RECEIVED:	01/14/00
PREP. BATCH:	VMA2639	VAA2339	VAA2339		
CALIB. REF:	EA11057A	EA10063A	EA10063A		

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	MS RSLT (mg/kg)	MS % REC	SPIKE AMT (mg/kg)	MSD RSLT (mg/kg)	MSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
Gasoline	4.59	5.74	151	2550*	5.74	141	2400*	6	57-146	50

SURROGATE PARAMETER	SPIKE AMT (mg/kg)	MS RSLT (mg/kg)	MS % REC	SPIKE AMT (mg/kg)	MSD RSLT (mg/kg)	MSD % REC	QC LIMIT (%)
Bromofluorobenzene	.261	.397	152*	.261	1.265	485*	60-140

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
BATCH NO.: 00A044
METHOD: METHOD 5030B/M8015

MATRIX:	SOIL			% MOISTURE:	4.1
DILUTION FACTOR:	1000	1	1		
SAMPLE ID:	18609-2645				
LAB SAMP ID:	A044-05	A044-05M	A044-05S		
LAB FILE ID:	EA11052A	EA10072A	EA10073A		
DATE EXTRACTED:	01/20/0017:00	01/19/0004:54	01/19/0005:30	DATE COLLECTED:	01/14/00
DATE ANALYZED:	01/20/0017:00	01/19/0004:54	01/19/0005:30	DATE RECEIVED:	01/14/00
PREP. BATCH:	VMA2639	VAA2339	VAA2339		
CALIB. REF:	EA11057A	EA10063A	EA10063A		

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	MS RSLT (mg/kg)	MS % REC	SPIKE AMT (mg/kg)	MSD RSLT (mg/kg)	MSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
Gasoline	4.59	5.74	151	2550*	5.74	141	2400*	6	57-146	50
	4590.		151000.			141000.				

SURROGATE PARAMETER	SPIKE AMT (mg/kg)	MS RSLT (mg/kg)	MS % REC	SPIKE AMT (mg/kg)	MSD RSLT (mg/kg)	MSD % REC	QC LIMIT (%)
Bromofluorobenzene	.261	.397	152*	.261	1.265	485*	60-140

$$\frac{(146410)}{5.74} = 2550696\%$$

$$\frac{136410}{5.74} \times 100\% = 2376480\%$$

RPD

7%

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
BATCH NO.: 00A044
METHOD: METHOD 5030B/M8015

MATRIX:	WATER			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	18609-2647				
LAB SAMP ID:	A044-07	A044-07M	A044-07S		
LAB FILE ID:	EA10017A	EA10018A	EA10019A		
DATE EXTRACTED:	01/17/0020:14	01/17/0020:50	01/17/0021:25	DATE COLLECTED:	01/14/00
DATE ANALYZED:	01/17/0020:14	01/17/0020:50	01/17/0021:25	DATE RECEIVED:	01/14/00
PREP. BATCH:	VAA2139	VAA2139	VAA2139		
CALIB. REF:	EA10015A	EA10015A	EA10015A		

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	1.1	1.19	109	1.1	1.14	104	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	.05	.0493	99	.05	.0485	97	65-135

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

Client : IT CORPORATION	Date Collected: 01/14/00
Project : MCAS EL TORO/18609/D.O. 70	Date Received: 01/14/00
Batch No. : 00A044	Date Extracted: 01/20/00 04:43
Sample ID: 18609-2641	Date Analyzed: 01/20/00 04:43
Lab Samp ID: A044-01	Dilution Factor: 1
Lab File ID: RAV341	Matrix : WATER
Ext Btch ID: VOA2101	% Moisture : NA
Calib. Ref.: RAV336	Instrument ID : T-001

PARAMETERS	RESULTS (ug/L)	PRL (ug/L)	MDL (ug/L)
1,1,1-TRICHLOROETHANE	ND	5	1.1
1,1,2,2-TETRACHLOROETHANE	ND	5	.49
1,1,2-TRICHLOROETHANE	ND	5	.52
1,1-DICHLOROETHANE	ND	5	1.2
1,1-DICHLOROETHENE	ND	5	2
1,2-DICHLOROETHANE	ND	5	.58
1,2-DICHLOROPROPANE	ND	5	.53
2-BUTANONE	ND	50	7.9
2-CHLOROETHYLVINYLETHER	ND	50	.83
2-HEXANONE	ND	50	1
4-METHYL-2-PENTANONE	ND	50	1
ACETONE	ND	50	10
BENZENE	ND	5	.85
BROMODICHLOROMETHANE	ND	5	.33
BROMOFORM	ND	5	.29
BROMOMETHANE	ND	5	1.5
CARBON DISULFIDE	ND	5	1.3
CARBON TETRACHLORIDE	ND	5	1.3
CHLOROBENZENE	ND	5	.68
CHLOROETHANE	ND	5	2.9
CHLOROFORM	ND	5	.85
CHLOROMETHANE	ND	5	1.7
CIS-1,2-DICHLOROETHENE	ND	5	.97
CIS-1,3-DICHLOROPROPENE	ND	5	.47
DIBROMOCHLOROMETHANE	ND	5	.29
ETHYLBENZENE	ND	5	.72
MTBE	ND	10	.96
METHYLENE CHLORIDE	ND	5	1.8
STYRENE	ND	5	.58
TETRACHLOROETHENE	ND	5	1.2
TOLUENE	ND	5	.92
TRANS-1,2-DICHLOROETHENE	ND	5	1.5
TRANS-1,3-DICHLOROPROPENE	ND	5	.45
TRICHLOROETHENE	ND	5	.9
VINYL ACETATE	ND	50	6.2
VINYL CHLORIDE	ND	5	1.7
XYLENES	ND	5	2.4

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	107	62-139
TOLUENE-D8	100	75-125
BROMOFLUOROBENZENE	108	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:	01/14/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	01/14/00
Btch No.	: 00A044	Date Extracted:	01/19/00 18:00
Sample ID:	18609-2642	Date Analyzed:	01/19/00 18:00
Lab Samp ID:	A044-02	Dilution Factor:	1
Lab File ID:	RAV322	Matrix :	SOIL
Ext Btch ID:	VOA1901	% Moisture :	28.8
Calib. Ref.:	RAV313	Instrument ID :	T-001

PARAMETERS	RESULTS (ug/kg)	PRL (ug/kg)	MDL (ug/kg)
1,1,1-TRICHLOROETHANE	ND	7	.46
1,1,2,2-TETRACHLOROETHANE	ND	7	.46
1,1,2-TRICHLOROETHANE	ND	7	.33
1,1-DICHLOROETHANE	ND	7	.43
1,1-DICHLOROETHENE	ND	7	.76
1,2-DICHLOROETHANE	ND	7	.46
1,2-DICHLOROPROPANE	ND	7	.53
2-BUTANONE	ND	70	7.2
2-CHLOROETHYLVINYLETHER	ND	70	.24
2-HEXANONE	ND	70	1.8
4-METHYL-2-PENTANONE	ND	70	1.6
ACETONE	ND	70	5.7
BENZENE	ND	7	.35
BROMODICHLOROMETHANE	ND	7	.36
BROMOFORM	ND	7	.39
BROMOMETHANE	ND	7	.9
CARBON DISULFIDE	ND	7	.18
CARBON TETRACHLORIDE	ND	7	1.1
CHLOROBENZENE	ND	7	.28
CHLOROETHANE	ND	7	2.5
CHLOROFORM	ND	7	.6
CHLOROMETHANE	ND	7	2.9
-1,2-DICHLOROETHENE	ND	7	.41
-1,3-DICHLOROPROPENE	ND	7	.31
DIBROMOCHLOROMETHANE	ND	7	.11
ETHYLBENZENE	ND	7	.55
MTBE	ND	14	.52
METHYLENE CHLORIDE	ND	7	.57
STYRENE	ND	7	.62
TETRACHLOROETHENE	ND	7	.34
TOLUENE	ND	7	.44
TRANS-1,2-DICHLOROETHENE	ND	7	.4
TRANS-1,3-DICHLOROPROPENE	ND	7	.94
TRICHLOROETHENE	ND	7	.36
VINYL ACETATE	ND	70	1
VINYL CHLORIDE	ND	7	1.4
XYLENES	ND	7	1.5

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	91	52-149
TOLUENE-D8	91	65-135
BROMOFLUOROBENZENE	98	65-135

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:	01/14/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	01/14/00
Batch No.	: 00A044	Date Extracted:	01/19/00 19:41
Sample ID:	18609-2643	Date Analyzed:	01/19/00 19:41
Lab Samp ID:	A044-03	Dilution Factor:	100
Lab File ID:	RAV325	Matrix :	SOIL
Ext Btch ID:	VOA1901	% Moisture :	26.8
Calib. Ref.:	RAV313	Instrument ID :	T-001

PARAMETERS	RESULTS (ug/kg)	PRL (ug/kg)	MDL (ug/kg)
1,1,1-TRICHLOROETHANE	ND	680	45
1,1,2,2-TETRACHLOROETHANE	ND	680	45
1,1,2-TRICHLOROETHANE	ND	680	32
1,1-DICHLOROETHANE	ND	680	41
1,1-DICHLOROETHENE	ND	680	73
1,2-DICHLOROETHANE	ND	680	45
1,2-DICHLOROPROPANE	ND	680	51
2-BUTANONE	ND	6800	700
2-CHLOROETHYLVINYLETHER	ND	6800	23
2-HEXANONE	ND	6800	170
4-METHYL-2-PENTANONE	ND	6800	160
ACETONE	ND	6800	560
BENZENE	ND	680	34
BROMODICHLOROMETHANE	ND	680	35
BROMOFORM	ND	680	38
BROMOMETHANE	ND	680	87
CARBON DISULFIDE	ND	680	17
CARBON TETRACHLORIDE	ND	680	110
CHLOROBENZENE	ND	680	27
CHLOROETHANE	ND	680	240
CHLOROFORM	ND	680	58
CHLOROMETHANE	ND	680	280
CIS-1,2-DICHLOROETHENE	ND	680	40
CIS-1,3-DICHLOROPROPENE	ND	680	30
DIBROMOCHLOROMETHANE	ND	680	11
ETHYLBENZENE	960	680	54
MTBE	ND	1400	51
METHYLENE CHLORIDE	ND	680	56
STYRENE	ND	680	60
TETRACHLOROETHENE	ND	680	33
TOLUENE	ND	680	43
TRANS-1,2-DICHLOROETHENE	ND	680	39
TRANS-1,3-DICHLOROPROPENE	ND	680	91
TRICHLOROETHENE	ND	680	35
VINYL ACETATE	ND	6800	98
VINYL CHLORIDE	ND	680	140
XYLENES	ND	680	150

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	96	52-149
TOLUENE-D8	98	65-135
BROMOFLUOROBENZENE	95	65-135

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:	01/14/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	01/14/00
Batch No.	: 00A044	Date Extracted:	01/19/00 20:15
Sample ID:	18609-2644	Date Analyzed:	01/19/00 20:15
Lab Samp ID:	A044-04	Dilution Factor:	200
Lab File ID:	RAV326	Matrix :	SOIL
Ext Btch ID:	VOA1901	% Moisture :	18.1
Calib. Ref.:	RAV313	Instrument ID :	T-001

PARAMETERS	RESULTS (ug/kg)	PRL (ug/kg)	MDL (ug/kg)
1,1,1-TRICHLOROETHANE	ND	1200	81
1,1,2,2-TETRACHLOROETHANE	ND	1200	81
1,1,2-TRICHLOROETHANE	ND	1200	57
1,1-DICHLOROETHANE	ND	1200	74
1,1-DICHLOROETHENE	ND	1200	130
1,2-DICHLOROETHANE	ND	1200	80
1,2-DICHLOROPROPANE	ND	1200	92
2-BUTANONE	ND	12000	1300
2-CHLOROETHYLVINYLETHER	ND	12000	42
2-HEXANONE	ND	12000	300
4-METHYL-2-PENTANONE	ND	12000	280
ACETONE	ND	12000	1000
BENZENE	ND	1200	61
BROMODICHLOROMETHANE	ND	1200	63
BROMOFORM	ND	1200	68
BROMOMETHANE	ND	1200	160
CARBON DISULFIDE	ND	1200	31
CARBON TETRACHLORIDE	ND	1200	190
CHLOROBENZENE	ND	1200	48
CHLOROETHANE	ND	1200	430
CHLOROFORM	ND	1200	100
[illegible]OROMETHANE	ND	1200	500
[illegible]-1,2-DICHLOROETHENE	ND	1200	71
[illegible]-1,3-DICHLOROPROPENE	ND	1200	54
DIBROMOCHLOROMETHANE	ND	1200	19
ETHYLBENZENE	8000	1200	96
MTBE	ND	2400	91
METHYLENE CHLORIDE	ND	1200	100
STYRENE	ND	1200	110
TETRACHLOROETHENE	ND	1200	59
TOLUENE	ND	1200	77
TRANS-1,2-DICHLOROETHENE	ND	1200	70
TRANS-1,3-DICHLOROPROPENE	ND	1200	160
TRICHLOROETHENE	ND	1200	62
VINYL ACETATE	ND	12000	170
VINYL CHLORIDE	ND	1200	250
XYLENES	ND	1200	270

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	98	52-149
TOLUENE-D8	107	65-135
BROMOFLUOROBENZENE	105	65-135

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:	01/14/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	01/14/00
Batch No.	: 00A044	Date Extracted:	01/19/00 20:49
Sample ID:	18609-2645	Date Analyzed:	01/19/00 20:49
Lab Samp ID:	A044-05	Dilution Factor:	50
Lab File ID:	RAV327	Matrix :	SOIL
Ext Btch ID:	VOA1901	% Moisture :	4.1
Calib. Ref.:	RAV313	Instrument ID :	T-001

PARAMETERS	RESULTS (ug/kg)	PRL (ug/kg)	MDL (ug/kg)
1,1,1-TRICHLOROETHANE	ND	260	17
1,1,2,2-TETRACHLOROETHANE	ND	260	17
1,1,2-TRICHLOROETHANE	ND	260	12
1,1-DICHLOROETHANE	ND	260	16
1,1-DICHLOROETHENE	ND	260	28
1,2-DICHLOROETHANE	ND	260	17
1,2-DICHLOROPROPANE	ND	260	20
2-BUTANONE	ND	2600	270
2-CHLOROETHYLVINYLETHER	ND	2600	8.9
2-HEXANONE	ND	2600	65
4-METHYL-2-PENTANONE	ND	2600	59
ACETONE	ND	2600	210
BENZENE	ND	260	13
BROMODICHLOROMETHANE	ND	260	14
BROMOFORM	ND	260	15
BROMOMETHANE	ND	260	33
CARBON DISULFIDE	ND	260	6.6
CARBON TETRACHLORIDE	ND	260	41
CHLOROBENZENE	ND	260	10
CHLOROETHANE	ND	260	93
CHLOROFORM	ND	260	22
CHLOROMETHANE	ND	260	110
CIS-1,2-DICHLOROETHENE	ND	260	15
CIS-1,3-DICHLOROPROPENE	ND	260	12
DIBROMOCHLOROMETHANE	ND	260	4.1
ETHYLBENZENE	ND	260	20
MTBE	ND	520	19
METHYLENE CHLORIDE	ND	260	21
STYRENE	ND	260	23
TETRACHLOROETHENE	ND	260	13
TOLUENE	ND	260	16
TRANS-1,2-DICHLOROETHENE	ND	260	15
TRANS-1,3-DICHLOROPROPENE	ND	260	35
TRICHLOROETHENE	ND	260	13
VINYL ACETATE	ND	2600	37
VINYL CHLORIDE	ND	260	53
XYLENES	ND	260	57

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	94	52-149
TOLUENE-D8	101	65-135
BROMOFLUOROBENZENE	96	65-135

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:	01/14/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	01/14/00
Batch No.	: 00A044	Date Extracted:	01/19/00 21:23
Sample ID:	18609-2646	Date Analyzed:	01/19/00 21:23
Lab Samp ID:	A044-06	Dilution Factor:	100
Lab File ID:	RAV328	Matrix :	SOIL
Ext Btch ID:	VOA1901	% Moisture :	8.3
Calib. Ref.:	RAV313	Instrument ID :	T-001

PARAMETERS	RESULTS (ug/kg)	PRL (ug/kg)	MDL (ug/kg)
1,1,1-TRICHLOROETHANE	ND	550	36
1,1,2,2-TETRACHLOROETHANE	ND	550	36
1,1,2-TRICHLOROETHANE	ND	550	25
1,1-DICHLOROETHANE	ND	550	33
1,1-DICHLOROETHENE	ND	550	59
1,2-DICHLOROETHANE	ND	550	36
1,2-DICHLOROPROPANE	ND	550	41
2-BUTANONE	ND	5500	560
2-CHLOROETHYLVINYLETHER	ND	5500	19
2-HEXANONE	ND	5500	140
4-METHYL-2-PENTANONE	ND	5500	120
ACETONE	ND	5500	450
BENZENE	ND	550	27
BROMODICHLOROMETHANE	ND	550	28
BROMOFORM	ND	550	30
BROMOMETHANE	ND	550	70
CARBON DISULFIDE	ND	550	14
CARBON TETRACHLORIDE	ND	550	86
CHLOROBENZENE	ND	550	21
CHLOROETHANE	ND	550	190
CHLOROFORM	ND	550	46
CHLOROMETHANE	ND	550	220
CIS-1,2-DICHLOROETHENE	ND	550	32
CIS-1,3-DICHLOROPROPENE	ND	550	24
DIBROMOCHLOROMETHANE	ND	550	8.6
ETHYLBENZENE	7100	550	43
MTBE	ND	1100	40
METHYLENE CHLORIDE	ND	550	45
STYRENE	ND	550	48
TETRACHLOROETHENE	ND	550	26
TOLUENE	ND	550	34
TRANS-1,2-DICHLOROETHENE	ND	550	31
TRANS-1,3-DICHLOROPROPENE	ND	550	73
TRICHLOROETHENE	ND	550	28
VINYL ACETATE	ND	5500	78
VINYL CHLORIDE	ND	550	110
XYLENES	12000	550	120

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	102	52-149
TOLUENE-D8	112	65-135
BROMOFLUOROBENZENE	121	65-135

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:	01/14/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	01/14/00
Batch No.	: 00A044	Date Extracted:	01/20/00 05:17
Sample ID:	18609-2647	Date Analyzed:	01/20/00 05:17
Lab Samp ID:	A044-07	Dilution Factor:	1
Lab File ID:	RAV342	Matrix :	WATER
Ext Btch ID:	VOA2101	% Moisture :	NA
Calib. Ref.:	RAV336	Instrument ID :	T-001

PARAMETERS	RESULTS (ug/L)	PRL (ug/L)	MDL (ug/L)
1,1,1-TRICHLOROETHANE	ND	5	1.1
1,1,2,2-TETRACHLOROETHANE	ND	5	.49
1,1,2-TRICHLOROETHANE	ND	5	.52
1,1-DICHLOROETHANE	ND	5	1.2
1,1-DICHLOROETHENE	ND	5	2
1,2-DICHLOROETHANE	ND	5	.58
1,2-DICHLOROPROPANE	ND	5	.53
2-BUTANONE	ND	50	7.9
2-CHLOROETHYLVINYLETHER	ND	50	.83
2-HEXANONE	ND	50	1
4-METHYL-2-PENTANONE	ND	50	1
ACETONE	ND	50	10
BENZENE	ND	5	.85
BROMODICHLOROMETHANE	ND	5	.33
BROMOFORM	ND	5	.29
BROMOMETHANE	ND	5	1.5
CARBON DISULFIDE	ND	5	1.3
CARBON TETRACHLORIDE	ND	5	1.3
CHLOROBENZENE	ND	5	.68
CHLOROETHANE	ND	5	2.9
CHLOROFORM	ND	5	.85
CHLOROMETHANE	ND	5	1.7
CIS-1,2-DICHLOROETHENE	ND	5	.97
CIS-1,3-DICHLOROPROPENE	ND	5	.47
DIBROMOCHLOROMETHANE	ND	5	.29
ETHYLBENZENE	ND	5	.72
MTBE	ND	10	.96
METHYLENE CHLORIDE	ND	5	1.8
STYRENE	ND	5	.58
TETRACHLOROETHENE	ND	5	1.2
TOLUENE	1.7J	5	.92
TRANS-1,2-DICHLOROETHENE	ND	5	1.5
TRANS-1,3-DICHLOROPROPENE	ND	5	.45
TRICHLOROETHENE	ND	5	.9
VINYL ACETATE	ND	50	6.2
VINYL CHLORIDE	ND	5	1.7
XYLENES	ND	5	2.4

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	106	62-139
TOLUENE-D8	100	75-125
BROMOFLUOROBENZENE	105	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:	01/14/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	01/14/00
Btch No.	: 00A044	Date Extracted:	01/20/00 17:21
Sample ID:	18609-2648	Date Analyzed:	01/20/00 17:21
Lab Samp ID:	A044-08	Dilution Factor:	500
Lab File ID:	RAV362	Matrix :	SOIL
Ext Btch ID:	VOA2201	% Moisture :	7.1
Calib. Ref.:	RAV356	Instrument ID :	T-001

PARAMETERS	RESULTS (ug/kg)	PRL (ug/kg)	MDL (ug/kg)
1,1,1-TRICHLOROETHANE	ND	2700	180
1,1,2,2-TETRACHLOROETHANE	ND	2700	180
1,1,2-TRICHLOROETHANE	ND	2700	130
1,1-DICHLOROETHANE	ND	2700	160
1,1-DICHLOROETHENE	ND	2700	290
1,2-DICHLOROETHANE	ND	2700	180
1,2-DICHLOROPROPANE	ND	2700	200
2-BUTANONE	ND	27000	2800
2-CHLOROETHYLVINYLETHER	ND	27000	91
2-HEXANONE	ND	27000	670
4-METHYL-2-PENTANONE	ND	27000	610
ACETONE	ND	27000	2200
BENZENE	ND	2700	130
BROMODICHLOROMETHANE	ND	2700	140
BROMOFORM	ND	2700	150
BROMOMETHANE	ND	2700	340
CARBON DISULFIDE	ND	2700	68
CARBON TETRACHLORIDE	ND	2700	430
CHLOROBENZENE	ND	2700	110
CHLOROETHANE	ND	2700	960
CHLOROFORM	ND	2700	230
[illegible]LOROMETHANE	ND	2700	1100
[illegible]-1,2-DICHLOROETHENE	ND	2700	160
[illegible]S-1,3-DICHLOROPROPENE	ND	2700	120
DIBROMOCHLOROMETHANE	ND	2700	43
ETHYLBENZENE	14000	2700	210
MTBE	ND	5400	200
METHYLENE CHLORIDE	ND	2700	220
STYRENE	ND	2700	240
TETRACHLOROETHENE	ND	2700	130
TOLUENE	ND	2700	170
TRANS-1,2-DICHLOROETHENE	ND	2700	160
TRANS-1,3-DICHLOROPROPENE	ND	2700	360
TRICHLOROETHENE	ND	2700	140
VINYL ACETATE	ND	27000	390
VINYL CHLORIDE	ND	2700	540
XYLENES	59000	2700	590

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	96	52-149
TOLUENE-D8	104	65-135
BROMOFLUOROBENZENE	101	65-135

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:	01/14/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	01/14/00
Batch No.	: 00A044	Date Extracted:	01/19/00 22:31
Sample ID:	18609-2649	Date Analyzed:	01/19/00 22:31
Lab Samp ID:	A044-09	Dilution Factor:	200
Lab File ID:	RAV330	Matrix :	SOIL
Ext Btch ID:	VOA1901	% Moisture :	12.6
Calib. Ref.:	RAV313	Instrument ID :	T-001

PARAMETERS	RESULTS (ug/kg)	PRL (ug/kg)	MDL (ug/kg)
1,1,1-TRICHLOROETHANE	ND	1100	76
1,1,2,2-TETRACHLOROETHANE	ND	1100	76
1,1,2-TRICHLOROETHANE	ND	1100	53
1,1-DICHLOROETHANE	ND	1100	69
1,1-DICHLOROETHENE	ND	1100	120
1,2-DICHLOROETHANE	ND	1100	75
1,2-DICHLOROPROPANE	ND	1100	86
2-BUTANONE	ND	11000	1200
2-CHLOROETHYLVINYLETHER	ND	11000	39
2-HEXANONE	ND	11000	290
4-METHYL-2-PENTANONE	ND	11000	260
ACETONE	ND	11000	940
BENZENE	ND	1100	57
BROMODICHLOROMETHANE	ND	1100	59
BROMOFORM	ND	1100	64
BROMOMETHANE	ND	1100	150
CARBON DISULFIDE	ND	1100	29
CARBON TETRACHLORIDE	ND	1100	180
CHLOROBENZENE	ND	1100	45
CHLOROETHANE	ND	1100	410
CHLOROFORM	ND	1100	97
CHLOROMETHANE	ND	1100	470
CIS-1,2-DICHLOROETHENE	ND	1100	67
CIS-1,3-DICHLOROPROPENE	ND	1100	51
DIBROMOCHLOROMETHANE	ND	1100	18
ETHYLBENZENE	ND	1100	90
MTBE	ND	2300	85
METHYLENE CHLORIDE	ND	1100	94
STYRENE	ND	1100	100
TETRACHLOROETHENE	ND	1100	56
TOLUENE	ND	1100	72
TRANS-1,2-DICHLOROETHENE	ND	1100	66
TRANS-1,3-DICHLOROPROPENE	ND	1100	150
TRICHLOROETHENE	200J	1100	58
VINYL ACETATE	ND	11000	160
VINYL CHLORIDE	ND	1100	230
XYLENES	ND	1100	250

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	107	52-149
TOLUENE-D8	110	65-135
BROMOFLUOROBENZENE	106	65-135

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:	01/19/00
Batch No.	: 00A044	Date Extracted:	01/19/00 15:05
Sample ID:	MBLK1S	Date Analyzed:	01/19/00 15:05
Lab Samp ID:	VOA1901Q	Dilution Factor:	1
Lab File ID:	RAV317	Matrix :	SOIL
Ext Btch ID:	VOA1901	% Moisture :	NA
Calib. Ref.:	RAV313	Instrument ID :	T-001

PARAMETERS	RESULTS (ug/kg)	PRL (ug/kg)	MDL (ug/kg)
1,1,1-TRICHLOROETHANE	ND	5	.33
1,1,2,2-TETRACHLOROETHANE	ND	5	.33
1,1,2-TRICHLOROETHANE	ND	5	.23
1,1-DICHLOROETHANE	ND	5	.3
1,1-DICHLOROETHENE	ND	5	.54
1,2-DICHLOROETHANE	ND	5	.33
1,2-DICHLOROPROPANE	ND	5	.38
2-BUTANONE	ND	50	5.1
2-CHLOROETHYLVINYLETHER	ND	50	.17
2-HEXANONE	ND	50	1.2
4-METHYL-2-PENTANONE	ND	50	1.1
ACETONE	ND	50	4.1
BENZENE	ND	5	.25
BROMODICHLOROMETHANE	ND	5	.26
BROMOFORM	ND	5	.28
BROMOMETHANE	ND	5	.64
CARBON DISULFIDE	ND	5	.13
CARBON TETRACHLORIDE	ND	5	.79
CHLOROBENZENE	ND	5	.2
CHLOROETHANE	ND	5	1.8
CHLOROFORM	ND	5	.42
[illegible]ROMETHANE	ND	5	2.1
[illegible]-1,2-DICHLOROETHENE	ND	5	.29
CIS-1,3-DICHLOROPROPENE	ND	5	.22
DIBROMOCHLOROMETHANE	ND	5	.079
ETHYLBENZENE	ND	5	.39
MTBE	ND	10	.37
METHYLENE CHLORIDE	ND	5	.41
STYRENE	ND	5	.44
TETRACHLOROETHENE	ND	5	.24
TOLUENE	ND	5	.31
TRANS-1,2-DICHLOROETHENE	ND	5	.29
TRANS-1,3-DICHLOROPROPENE	ND	5	.67
TRICHLOROETHENE	ND	5	.25
VINYL ACETATE	ND	50	.72
VINYL CHLORIDE	ND	5	1
XYLENES	ND	5	1.1

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	92	52-149
TOLUENE-D8	101	65-135
BROMOFLUOROBENZENE	102	65-135

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.: 00A044
METHOD: METHOD 5030A/8260A

MATRIX:	SOIL			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK1S				
LAB SAMP ID:	VOA1901Q	VOA1901L	VOA1901C		
LAB FILE ID:	RAV317	RAV314	RAV315		
DATE EXTRACTED:	01/19/0015:05	01/19/0013:23	01/19/0013:57	DATE COLLECTED:	NA
DATE ANALYZED:	01/19/0015:05	01/19/0013:23	01/19/0013:57	DATE RECEIVED:	01/19/00
PREP. BATCH:	VOA2201	VOA2201	VOA2201		
CALIB. REF:	RAV313	RAV313	RAV313		

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
1,1-Dichloroethene	ND	20	19.3	96	20	20	100	4	65-135	30
Benzene	ND	20	21	105	20	21.4	107	2	65-135	30
Chlorobenzene	ND	20	19.8	99	20	20.9	105	6	65-135	30
Toluene	ND	20	20.2	101	20	21.4	107	6	64-135	30
Trichloroethene	ND	20	18.6	93	20	20	100	7	61-135	30

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT (%)
1,2-Dichlorethane-d4	50	47.8	96	50	48.8	98	52-149
Toluene-d8	50	49.2	98	50	50.5	101	65-135
Bromofluorobenzene	50	50.5	101	50	51.6	103	65-135

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
BATCH NO.: 00A044
METHOD: METHOD 5030A/8260A

MATRIX:	SOIL			% MOISTURE:	28.8
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	18609-2642				
LAB SAMP ID:	A044-02	A044-02M	A044-02S		
LAB FILE ID:	RAV322	RAV331	RAV332		
DATE EXTRACTED:	01/19/0018:00	01/19/0023:05	01/19/0023:38	DATE COLLECTED:	01/14/00
DATE ANALYZED:	01/19/0018:00	01/19/0023:05	01/19/0023:38	DATE RECEIVED:	01/14/00
PREP. BATCH:	VOA1901	VOA1901	VOA1901		
CALIB. REF:	RAV313	RAV313	RAV313		

ACCESSION:

PARAMETER	SMPL RSLT (ug/kg)	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	SPIKE AMT (ug/kg)	MSD RSLT (ug/kg)	MSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
1,1-Dichloroethene	ND	70.2	70.1	100	70.2	67.4	96	4	65-135	30
Benzene	ND	70.2	70.2	100	70.2	66.8	95	5	65-135	30
Chlorobenzene	ND	70.2	66.4	95	70.2	66.6	95	0	65-135	30
Toluene	ND	70.2	69.4	99	70.2	68	97	2	64-135	30
Trichloroethene	ND	70.2	63.5	90	70.2	63.3	90	0	61-135	30

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	SPIKE AMT (ug/kg)	MSD RSLT (ug/kg)	MSD % REC	QC LIMIT (%)
1,2-Dichlorethane-d4	70.2	79.6	113	70.2	79.2	113	52-149
Toluene-d8	70.2	72.1	103	70.2	71.7	102	65-135
Bromofluorobenzene	70.2	73.1	104	70.2	75.2	107	65-135

* : Out side of QC Limit

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

Client	: IT CORPORATION	Date Collected:	NA
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	01/20/00
Batch No.	: 00A044	Date Extracted:	01/20/00 04:09
Sample ID:	MBLK1W	Date Analyzed:	01/20/00 04:09
Lab Samp ID:	VOA2101Q	Dilution Factor:	1
Lab File ID:	RAV340	Matrix :	WATER
Ext Btch ID:	VOA2101	% Moisture :	NA
Calib. Ref.:	RAV336	Instrument ID :	T-001

PARAMETERS	RESULTS (ug/L)	PRL (ug/L)	MDL (ug/L)
1,1,1-TRICHLOROETHANE	ND	5	1.1
1,1,2,2-TETRACHLOROETHANE	ND	5	.49
1,1,2-TRICHLOROETHANE	ND	5	.52
1,1-DICHLOROETHANE	ND	5	1.2
1,1-DICHLOROETHENE	ND	5	2
1,2-DICHLOROETHANE	ND	5	.58
1,2-DICHLOROPROPANE	ND	5	.53
2-BUTANONE	ND	50	7.9
2-CHLOROETHYLVINYLETHER	ND	50	.83
2-HEXANONE	ND	50	1
4-METHYL-2-PENTANONE	ND	50	1
ACETONE	ND	50	10
BENZENE	ND	5	.85
BROMODICHLOROMETHANE	ND	5	.33
BROMOFORM	ND	5	.29
BROMOMETHANE	ND	5	1.5
CARBON DISULFIDE	ND	5	1.3
CARBON TETRACHLORIDE	ND	5	1.3
CHLOROBENZENE	ND	5	.68
CHLOROETHANE	ND	5	2.9
CHLOROFORM	ND	5	.85
CHLOROMETHANE	ND	5	1.7
CIS-1,2-DICHLOROETHENE	ND	5	.97
CIS-1,3-DICHLOROPROPENE	ND	5	.47
DIBROMOCHLOROMETHANE	ND	5	.29
ETHYLBENZENE	ND	5	.72
MTBE	ND	10	.96
METHYLENE CHLORIDE	ND	5	1.8
STYRENE	ND	5	.58
TETRACHLOROETHENE	ND	5	1.2
TOLUENE	ND	5	.92
TRANS-1,2-DICHLOROETHENE	ND	5	1.5
TRANS-1,3-DICHLOROPROPENE	ND	5	.45
TRICHLOROETHENE	ND	5	.9
VINYL ACETATE	ND	50	6.2
VINYL CHLORIDE	ND	5	1.7
XYLENES	ND	5	2.4

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	104	62-139
TOLUENE-D8	98	75-125
BROMOFLUOROBENZENE	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

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
BATCH NO.: 00A044
METHOD: METHOD 5030A/8260A

MATRIX:	WATER			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK1W				
LAB SAMP ID:	VOA2101Q	VOA2101L	VOA2101C		
LAB FILE ID:	RAV340	RAV337	RAV338		
DATE EXTRACTED:	01/20/0004:09	01/20/0002:28	01/20/0003:02	DATE COLLECTED:	NA
DATE ANALYZED:	01/20/0004:09	01/20/0002:28	01/20/0003:02	DATE RECEIVED:	01/20/00
PREP. BATCH:	VOA2101	VOA2101	VOA2101		
CALIB. REF:	RAV336	RAV336	RAV336		

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	21.7	109	20	22.4	112	3	75-125	20
Benzene	ND	20	21.9	109	20	22	110	1	75-125	20
Chlorobenzene	ND	20	21	105	20	20.6	103	2	75-125	20
Toluene	ND	20	21.5	108	20	20.9	105	3	74-125	20
Trichloroethene	ND	20	20.6	103	20	20.4	102	1	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	54	108	50	56.1	112	62-139
Toluene-d8	50	51.2	102	50	50.4	101	75-125
Bromofluorobenzene	50	53.8	108	50	53	106	75-125

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

Client	: IT CORPORATION	Date Collected:	NA
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	01/20/00
Batch No.	: 00A044	Date Extracted:	01/20/00 15:59
Sample ID:	MBLK2S	Date Analyzed:	01/20/00 15:59
Lab Samp ID:	VOA2201Q	Dilution Factor:	1
Lab File ID:	RAV360	Matrix :	SOIL
Ext Btch ID:	VOA2201	% Moisture :	NA
Calib. Ref.:	RAV356	Instrument ID :	T-001

PARAMETERS	RESULTS (ug/kg)	PRL (ug/kg)	MDL (ug/kg)
1,1,1-TRICHLOROETHANE	ND	5	.33
1,1,2,2-TETRACHLOROETHANE	ND	5	.33
1,1,2-TRICHLOROETHANE	ND	5	.23
1,1-DICHLOROETHANE	ND	5	.3
1,1-DICHLOROETHENE	ND	5	.54
1,2-DICHLOROETHANE	ND	5	.33
1,2-DICHLOROPROPANE	ND	5	.38
2-BUTANONE	ND	50	5.1
2-CHLOROETHYLVINYLETHER	ND	50	.17
2-HEXANONE	ND	50	1.2
4-METHYL-2-PENTANONE	ND	50	1.1
ACETONE	ND	50	4.1
BENZENE	ND	5	.25
BROMODICHLOROMETHANE	ND	5	.26
BROMOFORM	ND	5	.28
BROMOMETHANE	ND	5	.64
CARBON DISULFIDE	ND	5	.13
CARBON TETRACHLORIDE	ND	5	.79
CHLOROBENZENE	ND	5	.2
CHLOROETHANE	ND	5	1.8
CHLOROFORM	ND	5	.42
CHLOROMETHANE	ND	5	2.1
CIS-1,2-DICHLOROETHENE	ND	5	.29
CIS-1,3-DICHLOROPROPENE	ND	5	.22
DIBROMOCHLOROMETHANE	ND	5	.079
ETHYLBENZENE	ND	5	.39
MTBE	ND	10	.37
METHYLENE CHLORIDE	ND	5	.41
STYRENE	ND	5	.44
TETRACHLOROETHENE	ND	5	.24
TOLUENE	ND	5	.31
TRANS-1,2-DICHLOROETHENE	ND	5	.29
TRANS-1,3-DICHLOROPROPENE	ND	5	.67
TRICHLOROETHENE	ND	5	.25
VINYL ACETATE	ND	50	.72
VINYL CHLORIDE	ND	5	1
XYLENES	ND	5	1.1

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	96	52-149
TOLUENE-D8	95	65-135
BROMOFLUOROBENZENE	97	65-135

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.: 00A044
METHOD: METHOD 5030A/8260A

MATRIX:	SOIL			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK2S				
LAB SAMP ID:	VOA2201Q	VOA2201L	VOA2201C		
LAB FILE ID:	RAV360	RAV357	RAV358		
DATE EXTRACTED:	01/20/0015:59	01/20/0014:17	01/20/0014:51	DATE COLLECTED:	NA
DATE ANALYZED:	01/20/0015:59	01/20/0014:17	01/20/0014:51	DATE RECEIVED:	01/20/00
PREP. BATCH:	VOA2201	VOA2201	VOA2201		
CALIB. REF:	RAV356	RAV356	RAV356		

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
1,1-Dichloroethene	ND	20	19.1	95	20	18.8	94	1	65-135	30
Benzene	ND	20	20	100	20	19.6	98	2	65-135	30
Chlorobenzene	ND	20	20.5	102	20	19.5	98	5	65-135	30
Toluene	ND	20	21	105	20	19.3	97	8	64-135	30
Trichloroethene	ND	20	19.6	98	20	19.1	95	3	61-135	30

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT (%)
1,2-Dichlorethane-d4	50	51	102	50	48	96	52-149
Toluene-d8	50	49.3	99	50	47.1	94	65-135
Bromofluorobenzene	50	50.1	100	50	48.8	98	65-135

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

Date: 02-21-2000
EMAX Batch No.: 00A044A

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 01/14/00 and requested on 01/27/00. The data reported include :

Sample ID	Control #	Col Date	Matrix	Analysis
18609-2643	A044-03	01/14/00	Soil	SPLP BTEX
18609-2644	A044-04	01/14/00	Soil	SPLP BTEX
				SPLP M8015
18609-2646	A044-06	01/14/00	Soil	SPLP BTEX
18609-2648	A044-08	01/14/00	Soil	SPLP BTEX
18609-2649	A044-09	01/14/00	Soil	SPLP BTEX
				SPLP M8015

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 SW1312/M8015
TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

Client : IT CORPORATION
Project : MCAS EL TORO/18609/D.O. 70
Batch No. : 00A044A

Matrix : WATER
Instrument ID : GCT043

SAMPLE ID	EMAX SAMPLE ID	RESULTS (mg/L)	SUR1 (%)	SUR2 (%)	DLF	MOIST	PQL (mg/L)	MDL (mg/L)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1W	DSA050WB	ND	110	101	1	NA	.1	.038	02/02/0018:45	02/01/0017:00	DB01004A	DB01002A	DSA050W	NA	02/01/00
LCS1W	DSA050WL	5.16	124	108	1	NA	.1	.038	02/02/0019:27	02/01/0017:00	DB01005A	DB01002A	DSA050W	NA	02/01/00
LCD1W	DSA050WC	4.74	100	105	1	NA	.1	.038	02/02/0020:09	02/01/0017:00	DB01006A	DB01002A	DSA050W	NA	02/01/00
MBLK2W	TXA005SB	ND	81	99	1	NA	.1	.038	02/02/0022:55	02/01/0017:00	DB01010A	DB01002A	DSA050W	NA	02/01/00
18609-2644	A044-04	29	98	85	5	NA	.5	.19	02/03/0017:45	02/01/0017:00	DB01036A	DB01024A	DSA050W	01/14/00	01/14/00
18609-2649	A044-09**	3	118	105	1	NA	.1	.038	02/03/0005:52	02/01/0017:00	DB01020A	DB01014A	DSA050W	01/14/00	01/14/00

PQL : Project Quantitation Limit
SURR1 : Bromobenzene 65-135 60-140
SURR2 : Hexacosane 60-140 55-150
H-C RANGE: C7 -C18 = JP5
C10-C24 = Diesel
C18-C34 = Motor Oil
C6 -C12 = Gas
** : Chromatogram shows a mixture of JP5 and Diesel. Result was quantitated from Diesel.

METHOD SPLP/MB015

TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

Client : IT CORPORATION
Project : MCAS EL TORO/18609/D.O. 70
Batch No. : 00A044B

Matrix : WATER
Instrument ID : GCT019

SAMPLE ID	EMAX SAMPLE ID	RESULTS (mg/L)	SUR1 (%)	SUR2 (%)	DLF	MOIST	PQL (mg/L)	MDL (mg/L)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1W	DSB011WB	ND	81	91	1	NA	.1	.012	02/09/0008:25	02/08/0017:00	TB03071A	TB03069A	DSB011W	NA	02/08/00
LCS1W	DSB011WL	4.88	91	87	1	NA	.1	.012	02/09/0009:02	02/08/0017:00	TB03072A	TB03069A	DSB011W	NA	02/08/00
LCD1W	DSB011WC	4.94	87	87	1	NA	.1	.012	02/09/0009:39	02/08/0017:00	TB03073A	TB03069A	DSB011W	NA	02/08/00
MBLK1S	TXB003SB	ND	75	90	1	NA	.1	.012	02/09/0010:17	02/08/0017:00	TB03074A	TB03069A	DSB011W	NA	02/08/00
18609-2646	A044-06	1.7**	77	108	1	NA	.1	.012	02/09/0011:32	02/08/0017:00	TB03076A	TB03069A	DSB011W	01/14/00	01/14/00

PQL : Project Quantitation Limit
SURR1 : Bromobenzene 65-135 60-140
SURR2 : Hexacosane 60-140 55-150
H-C RANGE: C7 -C18 = JP5
C10-C24 = Diesel
C18-C34 = Motor Oil
C6 -C12 = Gas
** : Chromatogram shows a mixture of JP5 and Diesel, results were calculated as diesel

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
[illegible] NO.: 00A044A
METHOD: METHOD SW1312/M8015

MATRIX:	WATER			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK1W				
LAB SAMP ID:	DSA050WB	DSA050WL	DSA050WC		
LAB FILE ID:	DB01004A	DB01005A	DB01006A		
DATE EXTRACTED:	02/01/0017:00	02/01/0017:00	02/01/0017:00	DATE COLLECTED:	NA
DATE ANALYZED:	02/02/0018:45	02/02/0019:27	02/02/0020:09	DATE RECEIVED:	02/01/00
PREP. BATCH:	DSA050W	DSA050W	DSA050W		
CALIB. REF:	DB01002A	DB01002A	DB01002A		

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	5.16	103	5	4.74	95	8	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	1.24	124	1	1	100	65-135
Hexacosane	1	1.08	108	1	1.05	105	60-140

EPA METHOD SW1312/8021
SPLP/BTEX

lient	: IT CORPORATION	Date Collected:	01/14/00
roject	: MCAS EL TORO/18609/D.O. 70	Date Received:	01/14/00
atch No.	: 00A044A	Date Extracted:	01/31/00 22:26
ample ID:	18609-2643	Date Analyzed:	01/31/00 22:26
ab Samp ID:	A044-03	Dilution Factor:	1
ab File ID:	EA16015B	Matrix :	WATER
xt Btch ID:	VAA4539	% Moisture :	NA
alib. Ref.:	EA16009B	Instrument ID :	GCT039

ARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
ENZENE	ND	.5	.28
OLUENE	ND	.5	.28
THYLBENZENE	15	.5	.29
OTAL XYLENES	ND	1.5	.92

URROGATE PARAMETERS	% RECOVERY	QC LIMIT
ROMOFLUOROBENZENE	96	60-140

.: Reporting Limit
xtraction Date: 01/29/00 11:00

EPA METHOD SW1312/8021
SPLP/BTEX

Client	: IT CORPORATION	Date Collected:	01/14/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	01/14/00
Batch No.	: 00A044A	Date Extracted:	01/31/00 23:00
Sample ID:	18609-2644	Date Analyzed:	01/31/00 23:00
Lab Samp ID:	A044-04	Dilution Factor:	1
Lab File ID:	EA16016B	Matrix :	WATER
Ext Btch ID:	VAA4539	% Moisture :	NA
Calib. Ref.:	EA16009B	Instrument ID :	GCT039

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
BENZENE	1.8	.5	.28
TOLUENE	ND	.5	.28
ETHYLBENZENE	25	.5	.29
TOTAL XYLENES	ND	1.5	.92

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
BROMOFLUOROBENZENE	102	60-140

RL: Reporting Limit
Extraction Date: 01/29/00 11:00

EPA METHOD SW1312/8021
SPLP/BTEX

:lient	: IT CORPORATION	Date Collected:	01/14/00
'roject	: MCAS EL TORO/18609/D.O. 70	Date Received:	01/14/00
;atch No.	: 00A044A	Date Extracted:	01/31/00 23:34
'ample ID:	18609-2646	Date Analyzed:	01/31/00 23:34
ab Samp ID:	A044-06	Dilution Factor:	1
ab File ID:	EA16017B	Matrix :	WATER
xt Btch ID:	VAA4539	% Moisture :	NA
alib. Ref.:	EA16009B	Instrument ID :	GCT039

ARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
ENZENE	ND	.5	.28
OLUENE	ND	.5	.28
THYLBENZENE	120E	.5	.29
OTAL XYLENES	190	1.5	.92

URROGATE PARAMETERS	% RECOVERY	QC LIMIT
ROMOFLUOROBENZENE	98	60-140

L: Reporting Limit
xtraction Date: 01/29/00 11:00
: Exceeded the calibration range

EPA METHOD SW1312/8021
SPLP/BTEX

Client	: IT CORPORATION	Date Collected:	01/14/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	01/14/00
Batch No.	: 00A044A	Date Extracted:	02/05/00 18:48
Sample ID:	18609-2646DL	Date Analyzed:	02/05/00 18:48
Lab Samp ID:	A044-06T	Dilution Factor:	2
Lab File ID:	EB02046B	Matrix :	WATER
Ext Btch ID:	VAB0739	% Moisture :	NA
Calib. Ref.:	EB02037B	Instrument ID :	GCT039

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
BENZENE	ND	1	.56
TOLUENE	ND	1	.56
ETHYLBENZENE	97	1	.58
TOTAL XYLENES	8.5	3	1.8

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
BROMOFLUOROBENZENE	97	60-140

RL: Reporting Limit
Extraction Date: 01/29/00 11:00

EPA METHOD SW1312/8021
SPLP/BTEX

Client	: IT CORPORATION	Date Collected:	01/14/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	01/14/00
Batch No.	: 00A044A	Date Extracted:	02/01/00 00:08
Sample ID:	18609-2648	Date Analyzed:	02/01/00 00:08
Lab Samp ID:	A044-08	Dilution Factor:	1
Lab File ID:	EA16018B	Matrix :	WATER
Ext Btch ID:	VAA4539	% Moisture :	NA
Calib. Ref.:	EA16009B	Instrument ID :	GCT039

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
BENZENE	ND	.5	.28
TOLUENE	ND	.5	.28
ETHYLBENZENE	110E	.5	.29
TOTAL XYLENES	220E	1.5	.92

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
BROMOFLUOROBENZENE	102	60-140

RL: Reporting Limit
Extraction Date: 01/29/00 11:00
E : Exceeded the calibration range

EPA METHOD SW1312/8021
SPLP/BTEX

Client	: IT CORPORATION	Date Collected:	01/14/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	01/14/00
Batch No.	: 00A044A	Date Extracted:	02/03/00 19:10
Sample ID:	18609-2648DL	Date Analyzed:	02/03/00 19:10
Lab Samp ID:	A044-08T	Dilution Factor:	2
Lab File ID:	EB01011B	Matrix :	WATER
Ext Btch ID:	VAB0139	% Moisture :	NA
Calib. Ref.:	EB01002B	Instrument ID :	GCT039

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
BENZENE	ND	1	.56
TOLUENE	ND	1	.56
ETHYLBENZENE	95	1	.58
TOTAL XYLENES	170	3	1.8

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
BROMOFLUOROBENZENE	112	60-140

RL: Reporting Limit
Extraction Date: 01/29/00 11:00

EPA METHOD SW1312/8021
SPLP/BTEX

lient	: IT CORPORATION	Date Collected:	01/14/00
roject	: MCAS EL TORO/18609/D.O. 70	Date Received:	01/14/00
atch No.	: 00A044A	Date Extracted:	02/01/00 00:43
ample ID:	18609-2649	Date Analyzed:	02/01/00 00:43
ab Samp ID:	A044-09	Dilution Factor:	1
ab File ID:	EA16019B	Matrix :	WATER
xt Btch ID:	VAA4539	% Moisture :	NA
alib. Ref.:	EA16009B	Instrument ID :	GCT039

ARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
ENZENE	ND	.5	.28
OLUENE	ND	.5	.28
THYLBENZENE	2.2	.5	.29
OTAL XYLENES	4.9	1.5	.92

JRROGATE PARAMETERS	% RECOVERY	QC LIMIT
ROMOFLUOROBENZENE	79	60-140

.: Reporting Limit
xtraction Date: 01/29/00 11:00

EPA METHOD SW1312/8021
SPLP/BTEX

Client	: IT CORPORATION	Date Collected:	NA
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	01/31/00
Batch No.	: 00A044A	Date Extracted:	01/31/00 20:09
Sample ID:	MBLK1W	Date Analyzed:	01/31/00 20:09
Lab Samp ID:	VAA4539B	Dilution Factor:	1
Lab File ID:	EA16011B	Matrix :	WATER
Ext Btch ID:	VAA4539	% Moisture :	NA
Calib. Ref.:	EA16009B	Instrument ID :	GCT039

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
BENZENE	ND	.5	.28
TOLUENE	ND	.5	.28
ETHYLBENZENE	ND	.5	.29
TOTAL XYLENES	ND	1.5	.92

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
BROMOFLUOROBENZENE	82	60-140

RL: Reporting Limit
Extraction Date: 01/29/00 11:00

EPA METHOD SW1312/8021
SPLP/BTEX

:lient	: IT CORPORATION	Date Collected:	NA
'roject	: MCAS EL TORO/18609/D.O. 70	Date Received:	01/31/00
:atch No.	: 00A044A	Date Extracted:	01/31/00 21:52
:ample ID:	MBLK2W	Date Analyzed:	01/31/00 21:52
ab Samp ID:	TVA004SB	Dilution Factor:	1
ab File ID:	EA16014B	Matrix :	WATER
xt Btch ID:	VAA4539	% Moisture :	NA
alib. Ref.:	EA16009B	Instrument ID :	GCT039

ARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
ENZENE	ND	.5	.28
OLUENE	ND	.5	.28
THYLBENZENE	ND	.5	.29
OTAL XYLENES	ND	1.5	.92

URROGATE PARAMETERS	% RECOVERY	QC LIMIT
ROMOFLUOROBENZENE	83	60-140

L: Reporting Limit
xtraction Date: 01/29/00 11:00

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
EMAX NO.: 00A044A
METHOD: EPA 1312B/8021

MATRIX:	WATER			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK1W				
LAB SAMP ID:	VAA4539B	VAA4539L	VAA4539C		
LAB FILE ID:	EA16011B	EA16012B	EA16013B		
DATE EXTRACTED:	01/31/0020:09	01/31/0020:43	01/31/0021:17	DATE COLLECTED:	NA
DATE ANALYZED:	01/31/0020:09	01/31/0020:43	01/31/0021:17	DATE RECEIVED:	01/31/00
PREP. BATCH:	VAA4539	VAA4539	VAA4539		
CALIB. REF:	EA16009B	EA16009B	EA16009B		

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 (%)
Benzene	ND	13	14.8	114	13	12.1	93	20	39-150	30
Toluene	ND	79.6	78.8	99	79.6	67	84	16	46-148	30
Ethylbenzene	ND	17.8	18.5	104	17.8	16.1	90	14	32-160	30
Total Xylenes	ND	93.4	94.5	101	93.4	77.3	83	20	61-129	30

SURROGATE PARAMETER	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	QC LIMIT (%)
Bromofluorobenzene	50	43.9	88	50	42.8	86	60-140

EPA METHOD SW1312/8021
SPLP/BTEX

:lient	: IT CORPORATION	Date Collected:	NA
'roject	: MCAS EL TORO/18609/D.O. 70	Date Received:	02/03/00
atch No.	: 00A044A	Date Extracted:	02/03/00 15:05
ample ID:	MBLK3W	Date Analyzed:	02/03/00 15:05
ab Samp ID:	VAB0139B	Dilution Factor:	1
ab File ID:	EB01004B	Matrix :	WATER
xt Btch ID:	VAB0139	% Moisture :	NA
alib. Ref.:	EB01002B	Instrument ID :	GCT039

ARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
ENZENE	ND	.5	.28
OLUENE	ND	.5	.28
THYLBENZENE	ND	.5	.29
OTAL XYLENES	ND	1.5	.92

URROGATE PARAMETERS	% RECOVERY	QC LIMIT
ROMOFLUOROBENZENE	93	60-140

L: Reporting Limit
xtraction Date: 01/29/00 11:00

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
[illegible] NO.: 00A044A
METHOD: EPA 1312B/8021

MATRIX: WATER % MOISTURE: NA

DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK3W				
LAB SAMP ID:	VAB0139B	VAB0139L	VAB0139C		
LAB FILE ID:	EB01004B	EB01005B	EB01006B		
DATE EXTRACTED:	02/03/0015:05	02/03/0015:40	02/03/0016:15	DATE COLLECTED:	NA
DATE ANALYZED:	02/03/0015:05	02/03/0015:40	02/03/0016:15	DATE RECEIVED:	02/03/00
PREP. BATCH:	VAB0139	VAB0139	VAB0139		
CALIB. REF:	EB01002B	EB01002B	EB01002B		

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 (%)
Benzene	ND	13	12.4	95	13	12.3	95	0	39-150	30
Toluene	ND	79.6	65.3	82	79.6	66.1	83	1	46-148	30
Ethylbenzene	ND	17.8	16.1	90	17.8	16.3	91	1	32-160	30
Total Xylenes	ND	93.4	80.1	86	93.4	76.3	82	5	61-129	30

SURROGATE PARAMETER	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	QC LIMIT (%)
Bromofluorobenzene	50	51.7	103	50	50.4	101	60-140

EPA METHOD SW1312/8021
SPLP/BTEX

.ient	: IT CORPORATION	Date Collected:	NA
·oject	: MCAS EL TORO/18609/D.O. 70	Date Received:	02/05/00
ıtch No.	: 00A044A	Date Extracted:	02/05/00 07:34
ımple ID:	MBLK4W	Date Analyzed:	02/05/00 07:34
ıb Samp ID:	VAB0739B	Dilution Factor:	1
ıb File ID:	EB02027B	Matrix :	WATER
:t Btch ID:	VAB0739	% Moisture :	NA
ıl ib. Ref.:	EB02025B	Instrument ID :	GCT039

.RAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
NZENE	ND	.5	.28
ıLUENE	ND	.5	.28
HYLBENZENE	ND	.5	.29
ıTAL XYLENES	ND	1.5	.92

RROGATE PARAMETERS	% RECOVERY	QC LIMIT
OMOFLUOROBENZENE	79	60-140

: Reporting Limit
.traction Date: 01/29/00 11:00

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

LIENT: IT CORPORATION
CT: MCAS EL TORO/18609/D.O. 70
NO.: 00A044A
D: EPA 1312B/8021

==========

ATRIX:	WATER			% MOISTURE:	NA
ILUTION FACTOR:	1	1	1		
AMPLE ID:	MBLK4W				
AB SAMP ID:	VAB0739B	VAB0739L	VAB0739C		
AB FILE ID:	EB02027B	EB02028B	EB02029B		
ATE EXTRACTED:	02/05/0007:34	02/05/0008:09	02/05/0008:44	DATE COLLECTED:	NA
ATE ANALYZED:	02/05/0007:34	02/05/0008:09	02/05/0008:44	DATE RECEIVED:	02/05/00
REP. BATCH:	VAB0739	VAB0739	VAB0739		
ALIB. REF:	EB02025B	EB02025B	EB02025B		

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 (%)
enzene	ND	13	15.1	116	13	14.5	112	4	39-150	30
oluene	ND	79.6	84	105	79.6	83.8	105	0	46-148	30
thylbenzene	ND	17.8	20.9	118	17.8	20.9	117	0	32-160	30
otal Xylenes	ND	93.4	103	111	93.4	102	110	1	61-129	30

==========

URROGATE PARAMETER	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	QC LIMIT (%)
romofluorobenzene	50	43.5	87	50	43.8	88	60-140

COMPLETED GW 2/3/00

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

CHAIN-OF-CUSTODY RECORD

PROJECT DATA MANAGER'S COPY

Tank Farm 398 A 10090

FORM 0019 REV. 9-99

LAB COORDINATOR: J. Concepcion	LAB COORDINATOR'S PHONE: 949 660 7550	LAB COORDINATOR'S FAX: 949 475 5433	LABORATORY SERVICE ID: 00A053	LABORATORY CONTACT: E MAX	MAIL REPORT (COMPANY NAME): IT GROUP
PROJECT NAME: EL TORO - D070	PROJECT LOCATION: MCAS, EL TORO, CA	PROJECT NUMBER: 18609	LABORATORY PHONE: 310 618 8889	LABORATORY FAX: —	RECIPIENT NAME: DWAYNE ISHIDA
PROJECT CONTACT: J. CONCEPCION	PROJECT PHONE NUMBER: 949 451 1667	PROJECT FAX: 949 475 5433	LABORATORY ADDRESS: 630 MAPLE		ADDRESS: 3347 Michelson Dr., St 200
PROJECT ADDRESS: —	CITY, STATE AND ZIP CODE: —	CLIENT: SWDIV	CITY, STATE AND ZIP CODE: TORRANCE, CA		CITY, STATE AND ZIP CODE: Irvine CA 92612
PROJECT MANAGER: B. SEDLAK	PROJECT MANAGER'S PHONE: 949 660 5446	PROJECT MANAGER'S FAX: —			

Analyzer "X" cap

Sample Identifier	Matrix	Date	Time	Preserved	# of Cont.	QC Level	T.A.T.	8015-Diesel	8015-JP5	8015-Gas	8260+MTBE	EPA 1312 (Hold)				Comments
18609-2650	Soil	1/7/00	0750	4°C	1	3	5day	X	X	X	X	X				EPA 1312 ox HOLD SPLP OCT
18609-2651	Soil	1/7/00	0840	4°C	1	3	5day	X	X	X	X	X				
18609-2652	Soil	1/7/00	0900	4°C	1	3	5day	X	X	X	X	X				SPLP OCT / SPLP GAS
18609-2653	Water	1/7/00	0950	HCL pH<2	8	3	5day	X	X	X	X					
18609-2654	Soil	1/7/00	1350	4°C	1	3	5day	X	X	X	X	X				
18609-2655	Soil	1/7/00	1435 1415	4°C	1	3	5day	X	X	X	X	X				
18609-2656	Soil	1/7/00	1438 1410	4°C	1	4	5day	X	X	X	X	X				
18609-2657	Soil	1/7/00	1510	4°C	1	3	5day	X	X	X	X	X				
18609-2658	Soil	1/7/00	1540	4°C	1	3	5day	X	X	X	X	X				
18609-2659	Water	1/7/00	0700	HCL	2	3	5day				X					

SAMPLES COLLECTED BY: BRIAN TANAKA

COURIER AND AIR BILL NUMBER:

COOLER TEMPERATURE UPON RECEIPT:

RELINQUISHED BY	RECEIVED BY	DATE	TIME	SAMPLE'S CONDITION UPON RECEIPT
[signature]	[signature]	1-7-00	1610	

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

Sample Point Location	Sample Type G	C	F	QC
1) CB-398-02	✓			
@ 169-170.5 BGS				
2) CB-398-02	✓			
@ 185-185.5				
3) CB-398-02	✓			
@ 189-190				
4) Equipment Rinse				✓
5) CB-398-28	✓			
@ 398-406.5 (40.5)				
6) CB-398-28	✓			
@ 69-70½ BGS				
7) Dup @ 69-70½ BGS				✓
8) CB-398-28 @ 89-90½	✓			
9) CB-398-28 @ 109-110	✓			
10 Trip Blank TF-398				✓

Comments

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

(SPLP 46666) 4036

4526D
D

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

Date: 02-10-2000
EMAX Batch No.: 00A053

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 01/17/00. The data reported include :

Sample ID	Control #	Col Date	Matrix	Analysis
18609-2650	A053-01	01/17/00	Soil	Volatile Organics by GC/MS
				Modified 8015 by Extraction
				Modified 8015 by Purge & Trap
18609-2651	A053-02	01/17/00	Soil	Modified 8015 by Extraction
				Modified 8015 by Purge & Trap
				Volatile Organics by GC/MS
18609-2652	A053-03	01/17/00	Soil	Volatile Organics by GC/MS
				Modified 8015 by Extraction
				Modified 8015 by Purge & Trap
18609-2653	A053-04	01/17/00	Water	Modified 8015 by Purge & Trap
				Modified 8015 by Extraction
				Volatile Organics by GC/MS
18609-2654	A053-05	01/17/00	Soil	Modified 8015 by Extraction
				Modified 8015 by Purge & Trap
				Volatile Organics by GC/MS
18609-2655	A053-06	01/17/00	Soil	Volatile Organics by GC/MS
				Modified 8015 by Extraction
				Modified 8015 by Purge & Trap
18609-2656	A053-07	01/17/00	Soil	Modified 8015 by Purge & Trap

Sample ID	Control #	Col Date	Matrix	Analysis
				Modified 8015 by Extraction
				Volatile Organics by GC/MS
18609-2657	A053-08	01/17/00	Soil	Volatile Organics by GC/MS
				Modified 8015 by Extraction
				Modified 8015 by Purge & Trap
18609-2658	A053-09	01/17/00	Soil	Modified 8015 by Purge & Trap
				Modified 8015 by Extraction
				Volatile Organics by GC/MS
18609-2659	A053-10	01/17/00	Water	Volatile Organics by GC/MS

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
Project : MCAS EL TORO/18609/D.O. 70
Batch No. : 00A053

Matrix : SOIL
Instrument ID : GCT019

SAMPLE ID	EMAX SAMPLE ID	RESULTS (mg/kg)	SUR1 (%)	SUR2 (%)	DLF	MOIST	RL (mg/kg)	MDL (mg/kg)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1S	DSA026SB	ND	67	66	1	NA	10	2.1	01/26/0023:39	01/18/0015:00	TA11060A	TA11051A	DSA026S	NA	01/18/00
LCS1S	DSA026SL	439	67	65	1	NA	10	2.1	01/27/0000:17	01/18/0015:00	TA11061A	TA11051A	DSA026S	NA	01/18/00
LCD1S	DSA026SC	455	72	69	1	NA	10	2.1	01/27/0000:53	01/18/0015:00	TA11062A	TA11051A	DSA026S	NA	01/18/00
18609-2650	A053-01	74000	DO	DO	50	16.4	598	125	01/27/0014:25	01/18/0015:00	TA12004A	TA12002A	DSA026S	01/17/00	01/17/00
18609-2651	A053-02	1500	78	74	1	3.2	10.3	2.17	01/27/0003:58	01/18/0015:00	TA11067A	TA11064A	DSA026S	01/17/00	01/17/00
18609-2651MS	A053-02M	3670	106	106	2	3.2	20.7	4.33	01/27/0015:03	01/18/0015:00	TA12005A	TA12002A	DSA026S	01/17/00	01/17/00
18609-2651MSD	A053-02S	2680	80	73	2	3.2	20.7	4.33	01/27/0015:40	01/18/0015:00	TA12006A	TA12002A	DSA026S	01/17/00	01/17/00
18609-2652	A053-03	13000	113	74	10	12.2	114	23.9	01/27/0005:49	01/18/0015:00	TA11070A	TA11064A	DSA026S	01/17/00	01/17/00
18609-2654	A053-05	810	79	71	1	15.2	11.8	2.47	01/27/0006:26	01/18/0015:00	TA11071A	TA11064A	DSA026S	01/17/00	01/17/00
18609-2655	A053-06	3000	94	76	5	11.4	56.4	11.8	01/27/0007:03	01/18/0015:00	TA11072A	TA11064A	DSA026S	01/17/00	01/17/00
18609-2656	A053-07	2800	126	74	5	10.2	55.7	11.7	01/27/0007:39	01/18/0015:00	TA11073A	TA11064A	DSA026S	01/17/00	01/17/00
18609-2657	A053-08	1900	89	77	2	11.8	22.7	4.75	01/27/0008:16	01/18/0015:00	TA11074A	TA11064A	DSA026S	01/17/00	01/17/00
18609-2658	A053-09	11000	DO	DO	20	7.1	215	45.1	01/27/0008:53	01/18/0015:00	TA11075A	TA11064A	DSA026S	01/17/00	01/17/00

QC LIMIT : (SOIL) 60-140 55-150
QC LIMIT : (WATER) 65-135 60-145
SURR1 : Bromobenzene
SURR2 : Hexacosane
RL : Reporting Limit
H-C RANGE: C7-C18 = JP-5
C6-C12 = Gas
C10-C24 = Diesel
C18-C34 = Motor Oil
E : Value exceed the upper level of the initial calibration
D : Value from dilution

METHOD M8015
TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

Client : IT CORPORATION
Project : MCAS EL TORO/18609/D.O. 70
Batch No. : 00A053

Matrix : WATER
Instrument ID : GCT019

SAMPLE ID	EMAX SAMPLE ID	RESULTS (mg/L)	SUR1 (%)	SUR2 (%)	DLF	MOIST	RL (mg/L)	MDL (mg/L)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1W	DSA028WB	ND	69	86	1	NA	.1	.038	01/24/0009:43	01/19/0015:30	TA10103A	TA10096A	DSA028W	NA	01/19/00
LCS1W	DSA028WL	4.95	76	83	1	NA	.1	.038	01/24/0010:21	01/19/0015:30	TA10104A	TA10096A	DSA028W	NA	01/19/00
LCD1W	DSA028WC	5.16	74	85	1	NA	.1	.038	01/24/0010:58	01/19/0015:30	TA10105A	TA10096A	DSA028W	NA	01/19/00
18609-2653	A053-04	ND	67	76	.92	NA	.092	.035	01/26/0003:48	01/19/0015:30	TA11028A	TA11025A	DSA028W	01/17/00	01/17/00

QC LIMIT : (SOIL) 60-140 55-150
QC LIMIT : (WATER) 65-135 60-145
SURR1 : Bromobenzene
SURR2 : Hexacosane
RL : Reporting Limit
H-C RANGE: C7-C18 = JP-5
C6-C12 = Gas
C10-C24 = Diesel
C18-C34 = Motor Oil
E : Value exceed the upper level of the initial calibration
D : Value from dilution

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

:LIENT: IT CORPORATION
'ROJECT: MCAS EL TORO/18609/D.O. 70
3ATCH NO.: 00A053
1ETHOD: METHOD M8015

1ATRIX:	WATER			% MOISTURE:	NA
)ILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK1W				
.AB SAMP ID:	DSA028WB	DSA028WL	DSA028WC		
.AB FILE ID:	TA10103A	TA10104A	TA10105A		
)ATE EXTRACTED:	01/19/0015:30	01/19/0015:30	01/19/0015:30	DATE COLLECTED:	NA
)ATE ANALYZED:	01/24/0009:43	01/24/0010:21	01/24/0010:58	DATE RECEIVED:	01/19/00
'REP. BATCH:	DSA028W	DSA028W	DSA028W		
:ALIB. REF:	TA10096A	TA10096A	TA10096A		

\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 (%)
)iesel	ND	5	4.95	99	5	5.16	103	4	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 (%)
3romobenzene	1	.758	76	1	.745	74	65-135
lexacosane	1	.833	83	1	.847	85	60-145

5016

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

LIENT: IT CORPORATION
ROJECT: MCAS EL TORO/18609/D.O. 70
ATCH NO.: 00A053
ETHOD: METHOD M8015

ATRIX:	SOIL			% MOISTURE:	NA
ILUTION FACTOR:	1	1	1		
AMPLE ID:	MBLK1S				
AB SAMP ID:	DSA026SB	DSA026SL	DSA026SC		
AB FILE ID:	TA11060A	TA11061A	TA11062A		
ATE EXTRACTED:	01/18/0015:00	01/18/0015:00	01/18/0015:00	DATE COLLECTED:	NA
ATE ANALYZED:	01/26/0023:39	01/27/0000:17	01/27/0000:53	DATE RECEIVED:	01/18/00
REP. BATCH:	DSA026S	DSA026S	DSA026S		
ALIB. REF:	TA11051A	TA11051A	TA11051A		

CCESSION:

ARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
iesel	ND	500	439	88	500	455	91	3	51-153	50

URROGATE PARAMETER	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	QC LIMIT (%)
romobenzene	100	67.2	67	100	71.6	72	60-140
exacosane	100	65.4	65	100	68.6	69	55-150

5017

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
BATCH NO.: 00A053
METHOD: METHOD M8015

MATRIX: SOIL
% MOISTURE: 3.2

DILUTION FACTOR:	1	2	2
SAMPLE ID:	18609-2651		
LAB SAMP ID:	A053-02	A053-02M	A053-02S
LAB FILE ID:	TA11067A	TA12005A	TA12006A
DATE EXTRACTED:	01/18/0015:00	01/18/0015:00	01/18/0015:00
DATE ANALYZED:	01/27/0003:58	01/27/0015:03	01/27/0015:40
PREP. BATCH:	DSA026S	DSA026S	DSA026S
CALIB. REF:	TA11064A	TA12002A	TA12002A

DATE COLLECTED: 01/17/00
DATE RECEIVED: 01/17/00

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	MS RSLT (mg/kg)	MS % REC	SPIKE AMT (mg/kg)	MSD RSLT (mg/kg)	MSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
Diesel	1500	517	3670	420*	517	2680	228*	59*	51-153	50

SURROGATE PARAMETER	SPIKE AMT (mg/kg)	MS RSLT (mg/kg)	MS % REC	SPIKE AMT (mg/kg)	MSD RSLT (mg/kg)	MSD % REC	QC LIMIT (%)
Bromobenzene	103	110	106	103	82.6	80	60-140
Hexacosane	103	109	106	103	75.5	73	55-150

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

Client : IT CORPORATION
Project : MCAS EL TORO/18609/D.O. 70
Batch No. : 00A053

Matrix : SOIL
Instrument ID : GCT039

SAMPLE ID	EMAX SAMPLE ID	RESULTS (mg/kg)	SURR (%)	DLF	MOIST	RL (mg/kg)	MDL (mg/kg)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1S	VMA2639B	ND	78	10	NA	10	.88	01/20/0003:47	01/20/0003:47	EA11030A	EA11027A	VMA2639	NA	01/20/00
LCS1S	VMA2639L	66	84	10	NA	10	.88	01/20/0015:14	01/20/0015:14	EA11049A	EA11039A	VMA2639	NA	01/20/00
LCD1S	VMA2639C	63.2	89	10	NA	10	.88	01/20/0004:58	01/20/0004:58	EA11032A	EA11027A	VMA2639	NA	01/20/00
MBLK2S	VMA2739B	ND	76	10	NA	10	.88	01/20/0021:01	01/20/0021:01	EA11058A	EA11051A	VMA2739	NA	01/20/00
LCS2S	VMA2739L	62.8	89	10	NA	10	.88	01/20/0021:36	01/20/0021:36	EA11059A	EA11051A	VMA2739	NA	01/20/00
LCD2S	VMA2739C	54.4	86	10	NA	10	.88	01/20/0022:10	01/20/0022:10	EA11060A	EA11051A	VMA2739	NA	01/20/00
MBLK3S	VMA2939B	ND	74	10	NA	10	.88	01/21/0018:58	01/21/0018:58	EA12009A	EA12003A	VMA2939	NA	01/20/00
LCS3S	VMA2939L	49.9	77	10	NA	10	.88	01/21/0019:32	01/21/0019:32	EA12010A	EA12003A	VMA2939	NA	01/20/00
LCD3S	VMA2939C	48.5	83	10	NA	10	.88	01/21/0020:07	01/21/0020:07	EA12011A	EA12003A	VMA2939	NA	01/20/00
18609-2650	A053-01	1600**	93	100	16.4	120	10.5	01/20/0018:42	01/20/0018:42	EA11054A	EA11051A	VMA2639	01/17/00	01/17/00
18609-2651	A053-02	1500**	79	100	3.2	103	9.09	01/20/0011:30	01/20/0011:30	EA11043A	EA11039A	VMA2639	01/17/00	01/17/00
18609-2652	A053-03	6900E	91	100	12.2	114	10	01/20/0012:08	01/20/0012:08	EA11044A	EA11039A	VMA2639	01/17/00	01/17/00
18609-2652DL	A053-03T	4500**	89	1000	12.2	1140	100	01/20/0022:45	01/20/0022:45	EA11061A	EA11051A	VMA2739	01/17/00	01/17/00
18609-2654	A053-05	ND	81	100	15.2	118	10.4	01/20/0012:44	01/20/0012:44	EA11045A	EA11039A	VMA2639	01/17/00	01/17/00
18609-2654RE	A053-05R	110**	96	10	15.2	11.8	1.04	01/21/0000:28	01/21/0000:28	EA11064A	EA11063A	VMA2739	01/17/00	01/17/00
18609-2655	A053-06	1400**	108	100	11.4	113	9.93	01/20/0013:29	01/20/0013:29	EA11046A	EA11039A	VMA2639	01/17/00	01/17/00
18609-2656	A053-07	2500**	90	200	10.2	223	19.6	01/20/0019:17	01/20/0019:17	EA11055A	EA11051A	VMA2639	01/17/00	01/17/00
18609-2657	A053-08	1200**	87	100	11.8	113	9.98	01/20/0019:52	01/20/0019:52	EA11056A	EA11051A	VMA2639	01/17/00	01/17/00
18609-2658	A053-09	9700**	89	1000	7.1	1080	94.7	01/21/0020:41	01/21/0020:41	EA12012A	EA12003A	VMA2939	01/17/00	01/17/00

SURR : Bromofluorobenzene
PRL : Reporting Limit
E : Value exceed the upper level of the initial calibration
D : Value from dilution
** : Presence of heavier HC in the chromatogram, not a typical gasoline pattern

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

Client : IT CORPORATION
Project : MCAS EL TORO/18609/D.O. 70
Batch No. : 00A053

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	VAA2439B	ND	78	1	NA	.1	.018	01/19/0012:05	01/19/0012:05	EA11004A	EA11003A	VAA2439	NA	01/19/00
LCS1W	VAA2439L	1.08	94	1	NA	.1	.018	01/19/0012:42	01/19/0012:42	EA11005A	EA11003A	VAA2439	NA	01/19/00
LCD1W	VAA2439C	.986	93	1	NA	.1	.018	01/19/0013:19	01/19/0013:19	EA11006A	EA11003A	VAA2439	NA	01/19/00
18609-2653	A053-04	ND	79	1	NA	.1	.018	01/19/0021:15	01/19/0021:15	EA11019A	EA11015A	VAA2439	01/17/00	01/17/00

SURR : Bromofluorobenzene
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.: 00A053
METHOD: METHOD 5030A/M8015

MATRIX:	WATER			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK1W				
LAB SAMP ID:	VAA2439B	VAA2439L	VAA2439C		
LAB FILE ID:	EA11004A	EA11005A	EA11006A		
DATE EXTRACTED:	01/19/0012:05	01/19/0012:42	01/19/0013:19	DATE COLLECTED:	NA
DATE ANALYZED:	01/19/0012:05	01/19/0012:42	01/19/0013:19	DATE RECEIVED:	01/19/00
PREP. BATCH:	VAA2439	VAA2439	VAA2439		
CALIB. REF:	EA11003A	EA11003A	EA11003A		

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	1.1	1.08	98	1.1	.986	90	9	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	.05	.0471	94	.05	.0464	93	65-135

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
BATCH NO.: 00A053
METHOD: METHOD 5030A/M8015

MATRIX:	SOIL			% MOISTURE:	NA
DILUTION FACTOR:	10	10	10		
SAMPLE ID:	MBLK1S				
LAB SAMP ID:	VMA2639B	VMA2639L	VMA2639C		
LAB FILE ID:	EA11030A	EA11049A	EA11032A		
DATE EXTRACTED:	01/20/0003:47	01/20/0015:14	01/20/0004:58	DATE COLLECTED:	NA
DATE ANALYZED:	01/20/0003:47	01/20/0015:14	01/20/0004:58	DATE RECEIVED:	01/20/00
PREP. BATCH:	VMA2639	VMA2639	VMA2639		
CALIB. REF:	EA11027A	EA11039A	EA11027A		

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
Gasoline	ND	55	66	120	55	63.2	115	4	57-146	50

SURROGATE PARAMETER	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	QC LIMIT (%)
Bromofluorobenzene	2.5	2.1	84	2.5	2.24	89	60-140

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
BATCH NO.: 00A053
METHOD: METHOD 5030A/M8015

MATRIX:	SOIL			% MOISTURE:	NA
DILUTION FACTOR:	10	10	10		
SAMPLE ID:	MBLK2S				
LAB SAMP ID:	VMA2739B	VMA2739L	VMA2739C		
LAB FILE ID:	EA11058A	EA11059A	EA11060A		
DATE EXTRACTED:	01/20/0021:01	01/20/0021:36	01/20/0022:10	DATE COLLECTED:	NA
DATE ANALYZED:	01/20/0021:01	01/20/0021:36	01/20/0022:10	DATE RECEIVED:	01/20/00
PREP. BATCH:	VMA2739	VMA2739	VMA2739		
CALIB. REF:	EA11051A	EA11051A	EA11051A		

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
Gasoline	ND	55	62.8	114	55	54.4	99	14	57-146	50

SURROGATE PARAMETER	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	QC LIMIT (%)
Bromofluorobenzene	2.5	2.24	89	2.5	2.16	86	60-140

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
BATCH NO.: 00A053
METHOD: METHOD 5030A/M8015

MATRIX:	SOIL			% MOISTURE:	NA
DILUTION FACTOR:	10	10	10		
SAMPLE ID:	MBLK3S				
LAB SAMP ID:	VMA2939B	VMA2939L	VMA2939C		
LAB FILE ID:	EA12009A	EA12010A	EA12011A		
DATE EXTRACTED:	01/21/0018:58	01/21/0019:32	01/21/0020:07	DATE COLLECTED:	NA
DATE ANALYZED:	01/21/0018:58	01/21/0019:32	01/21/0020:07	DATE RECEIVED:	01/20/00
PREP. BATCH:	VMA2939	VMA2939	VMA2939		
CALIB. REF:	EA12003A	EA12003A	EA12003A		

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
Gasoline	ND	55	49.9	91	55	48.5	88	3	57-146	50

SURROGATE PARAMETER	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	QC LIMIT (%)
Bromofluorobenzene	[illegible].5	1.94	77	2.5	2.08	83	60-140

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

Client : IT CORPORATION	Date Collected: 01/17/00
Project : MCAS EL TORO/18609/D.O. 70	Date Received: 01/17/00
Batch No. : 00A053	Date Extracted: 01/18/00 20:14
Sample ID: 18609-2650	Date Analyzed: 01/18/00 20:14
Lab Samp ID: A053-01	Dilution Factor: 250
Lab File ID: RAW056	Matrix : SOIL
Ext Btch ID: VOA0203	% Moisture : 16.4
Calib. Ref.: RAW049	Instrument ID : T-006

PARAMETERS	RESULTS (ug/kg)	PRL (ug/kg)	MDL (ug/kg)
1,1,1-TRICHLOROETHANE	ND	1500	99
1,1,2,2-TETRACHLOROETHANE	ND	1500	99
1,1,2-TRICHLOROETHANE	ND	1500	70
1,1-DICHLOROETHANE	ND	1500	91
1,1-DICHLOROETHENE	ND	1500	160
1,2-DICHLOROETHANE	ND	1500	97
1,2-DICHLOROPROPANE	ND	1500	110
2-BUTANONE	ND	15000	1500
2-CHLOROETHYLVINYLETHER	ND	15000	51
2-HEXANONE	ND	15000	370
4-METHYL-2-PENTANONE	ND	15000	340
ACETONE	ND	15000	1200
BENZENE	ND	1500	74
BROMODICHLOROMETHANE	ND	1500	77
BROMOFORM	ND	1500	83
BROMOMETHANE	ND	1500	190
CARBON DISULFIDE	ND	1500	38
CARBON TETRACHLORIDE	ND	1500	240
CHLOROBENZENE	ND	1500	59
CHLOROETHANE	ND	1500	530
CHLOROFORM	ND	1500	130
CHLOROMETHANE	ND	1500	620
CIS-1,2-DICHLOROETHENE	ND	1500	87
CIS-1,3-DICHLOROPROPENE	ND	1500	66
DIBROMOCHLOROMETHANE	ND	1500	24
ETHYLBENZENE	ND	1500	120
MTBE	ND	3000	110
METHYLENE CHLORIDE	1900B	1500	120
STYRENE	ND	1500	130
TETRACHLOROETHENE	ND	1500	73
TOLUENE	ND	1500	94
TRANS-1,2-DICHLOROETHENE	ND	1500	86
TRANS-1,3-DICHLOROPROPENE	ND	1500	200
TRICHLOROETHENE	ND	1500	76
VINYL ACETATE	ND	15000	210
VINYL CHLORIDE	ND	1500	300
XYLENES	24000	1500	330

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	103	52-149
TOLUENE-D8	119	65-135
BROMOFLUOROBENZENE	116	65-135

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:	01/17/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	01/17/00
Batch No.	: 00A053	Date Extracted:	01/18/00 20:52
Sample ID:	18609-2651	Date Analyzed:	01/18/00 20:52
Lab Samp ID:	A053-02	Dilution Factor:	100
Lab File ID:	RAW057	Matrix :	SOIL
Ext Btch ID:	VOA0203	% Moisture :	3.2
Calib. Ref.:	RAW049	Instrument ID :	T-006

PARAMETERS	RESULTS (ug/kg)	PRL (ug/kg)	MDL (ug/kg)
1,1,1-TRICHLOROETHANE	ND	520	34
1,1,2,2-TETRACHLOROETHANE	ND	520	34
1,1,2-TRICHLOROETHANE	ND	520	24
1,1-DICHLOROETHANE	ND	520	31
1,1-DICHLOROETHENE	ND	520	56
1,2-DICHLOROETHANE	ND	520	34
1,2-DICHLOROPROPANE	ND	520	39
2-BUTANONE	ND	5200	530
2-CHLOROETHYLVINYLETHER	ND	5200	18
2-HEXANONE	ND	5200	130
4-METHYL-2-PENTANONE	ND	5200	120
ACETONE	ND	5200	420
BENZENE	ND	520	26
BROMODICHLOROMETHANE	ND	520	27
BROMOFORM	ND	520	29
BROMOMETHANE	ND	520	66
CARBON DISULFIDE	ND	520	13
CARBON TETRACHLORIDE	ND	520	82
CHLOROBENZENE	ND	520	20
CHLOROETHANE	ND	520	180
CHLOROFORM	ND	520	44
CHLOROMETHANE	ND	520	210
CIS-1,2-DICHLOROETHENE	ND	520	30
CIS-1,3-DICHLOROPROPENE	ND	520	23
BROMOCHLOROMETHANE	ND	520	8.2
ETHYLBENZENE	ND	520	40
MTBE	ND	1000	38
METHYLENE CHLORIDE	700B	520	42
STYRENE	ND	520	45
TETRACHLOROETHENE	ND	520	25
TOLUENE	ND	520	32
TRANS-1,2-DICHLOROETHENE	ND	520	30
TRANS-1,3-DICHLOROPROPENE	ND	520	69
TRICHLOROETHENE	ND	520	26
VINYL ACETATE	ND	5200	74
VINYL CHLORIDE	ND	520	100
XYLENES	ND	520	110

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	117	52-149
TOLUENE-D8	95	65-135
BROMOFLUOROBENZENE	104	65-135

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:	01/17/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	01/17/00
Batch No.	: 00A053	Date Extracted:	01/18/00 21:31
Sample ID:	18609-2652	Date Analyzed:	01/18/00 21:31
Lab Samp ID:	A053-03	Dilution Factor:	100
Lab File ID:	RAW058	Matrix :	SOIL
Ext Btch ID:	VOA0203	% Moisture :	12.2
Calib. Ref.:	RAW049	Instrument ID :	T-006

PARAMETERS	RESULTS (ug/kg)	PRL (ug/kg)	MDL (ug/kg)
1,1,1-TRICHLOROETHANE	ND	570	38
1,1,2,2-TETRACHLOROETHANE	ND	570	38
1,1,2-TRICHLOROETHANE	ND	570	27
1,1-DICHLOROETHANE	ND	570	35
1,1-DICHLOROETHENE	ND	570	61
1,2-DICHLOROETHANE	ND	570	37
1,2-DICHLOROPROPANE	ND	570	43
2-BUTANONE	ND	5700	580
2-CHLOROETHYLVINYLETHER	ND	5700	19
2-HEXANONE	ND	5700	140
4-METHYL-2-PENTANONE	ND	5700	130
ACETONE	ND	5700	470
BENZENE	ND	570	28
BROMODICHLOROMETHANE	ND	570	29
BROMOFORM	ND	570	32
BROMOMETHANE	ND	570	73
CARBON DISULFIDE	ND	570	14
CARBON TETRACHLORIDE	ND	570	90
CHLOROBENZENE	ND	570	22
CHLOROETHANE	ND	570	200
CHLOROFORM	ND	570	48
CHLOROMETHANE	ND	570	230
CIS-1,2-DICHLOROETHENE	ND	570	33
CIS-1,3-DICHLOROPROPENE	ND	570	25
DIBROMOCHLOROMETHANE	ND	570	9
ETHYLBENZENE	ND	570	45
MTBE	ND	1100	42
METHYLENE CHLORIDE	750B	570	47
STYRENE	ND	570	50
TETRACHLOROETHENE	ND	570	28
TOLUENE	ND	570	36
TRANS-1,2-DICHLOROETHENE	ND	570	33
TRANS-1,3-DICHLOROPROPENE	ND	570	76
TRICHLOROETHENE	ND	570	29
VINYL ACETATE	ND	5700	82
VINYL CHLORIDE	ND	570	120
XYLENES	1100	570	120

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	121	52-149
TOLUENE-D8	97	65-135
BROMOFLUOROBENZENE	104	65-135

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:	01/17/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	01/17/00
Batch No.	: 00A053	Date Extracted:	01/18/00 19:35
Sample ID:	18609-2653	Date Analyzed:	01/18/00 19:35
Lab Samp ID:	A053-04	Dilution Factor:	1
Lab File ID:	RAW055	Matrix :	WATER
Ext Btch ID:	VOA0203	% Moisture :	NA
Calib. Ref.:	RAW049	Instrument ID :	T-006

PARAMETERS	RESULTS (ug/L)	PRL (ug/L)	MDL (ug/L)
1,1,1-TRICHLOROETHANE	ND	5	1.1
1,1,2,2-TETRACHLOROETHANE	ND	5	.49
1,1,2-TRICHLOROETHANE	ND	5	.52
1,1-DICHLOROETHANE	ND	5	1.2
1,1-DICHLOROETHENE	ND	5	2
1,2-DICHLOROETHANE	ND	5	.58
1,2-DICHLOROPROPANE	ND	5	.53
2-BUTANONE	ND	50	7.9
2-CHLOROETHYLVINYLETHER	ND	50	.83
2-HEXANONE	ND	50	1
4-METHYL-2-PENTANONE	ND	50	1
ACETONE	ND	50	10
BENZENE	ND	5	.85
BROMODICHLOROMETHANE	ND	5	.33
BROMOFORM	ND	5	.29
BROMOMETHANE	ND	5	1.5
CARBON DISULFIDE	ND	5	1.3
CARBON TETRACHLORIDE	ND	5	1.3
CHLOROBENZENE	ND	5	.68
CHLOROETHANE	ND	5	2.9
CHLOROFORM	ND	5	.85
CHLOROMETHANE	ND	5	1.7
CIS-1,2-DICHLOROETHENE	ND	5	.97
CIS-1,3-DICHLOROPROPENE	ND	5	.47
DIBROMOCHLOROMETHANE	ND	5	.29
ETHYLBENZENE	ND	5	.72
MTBE	ND	10	.96
METHYLENE CHLORIDE	5.8B	5	1.8
STYRENE	ND	5	.58
TETRACHLOROETHENE	ND	5	1.2
TOLUENE	ND	5	.92
TRANS-1,2-DICHLOROETHENE	ND	5	1.5
TRANS-1,3-DICHLOROPROPENE	ND	5	.45
TRICHLOROETHENE	ND	5	.9
VINYL ACETATE	ND	50	6.2
VINYL CHLORIDE	ND	5	1.7
XYLENES	ND	5	2.4

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	110	62-139
TOLUENE-D8	104	75-125
BROMOFLUOROBENZENE	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:	01/17/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	01/17/00
Batch No.	: 00A053	Date Extracted:	01/18/00 22:09
Sample ID:	18609-2654	Date Analyzed:	01/18/00 22:09
Lab Samp ID:	A053-05	Dilution Factor:	100
Lab File ID:	RAW059	Matrix :	SOIL
Ext Btch ID:	VOA0203	% Moisture :	15.2
Calib. Ref.:	RAW049	Instrument ID :	T-006

PARAMETERS	RESULTS (ug/kg)	PRL (ug/kg)	MDL (ug/kg)
1,1,1-TRICHLOROETHANE	ND	590	39
1,1,2,2-TETRACHLOROETHANE	ND	590	39
1,1,2-TRICHLOROETHANE	ND	590	27
1,1-DICHLOROETHANE	ND	590	36
1,1-DICHLOROETHENE	ND	590	63
1,2-DICHLOROETHANE	ND	590	38
1,2-DICHLOROPROPANE	ND	590	44
2-BUTANONE	ND	5900	600
2-CHLOROETHYLVINYLETHER	ND	5900	20
2-HEXANONE	ND	5900	150
4-METHYL-2-PENTANONE	ND	5900	130
ACETONE	ND	5900	480
BENZENE	ND	590	29
BROMODICHLOROMETHANE	ND	590	31
BROMOFORM	ND	590	33
BROMOMETHANE	ND	590	75
CARBON DISULFIDE	ND	590	15
CARBON TETRACHLORIDE	ND	590	93
CHLOROBENZENE	ND	590	23
CHLOROETHANE	ND	590	210
CHLOROFORM	ND	590	50
CHLOROMETHANE	ND	590	240
CIS-1,2-DICHLOROETHENE	ND	590	34
CIS-1,3-DICHLOROPROPENE	ND	590	26
DIBROMOCHLOROMETHANE	ND	590	9.3
ETHYLBENZENE	2000	590	46
MTBE	ND	1200	44
METHYLENE CHLORIDE	730B	590	48
STYRENE	ND	590	52
TETRACHLOROETHENE	ND	590	29
TOLUENE	ND	590	37
TRANS-1,2-DICHLOROETHENE	ND	590	34
TRANS-1,3-DICHLOROPROPENE	ND	590	79
TRICHLOROETHENE	ND	590	30
VINYL ACETATE	ND	5900	84
VINYL CHLORIDE	ND	590	120
XYLENES	ND	590	130

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	115	52-149
TOLUENE-D8	103	65-135
BROMOFLUOROBENZENE	106	65-135

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:	01/17/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	01/17/00
Batch No.	: 00A053	Date Extracted:	01/18/00 22:47
Sample ID	: 18609-2655	Date Analyzed:	01/18/00 22:47
Lab Samp ID	: A053-06	Dilution Factor:	100
Lab File ID	: RAW060	Matrix :	SOIL
Ext Btch ID	: VOA0203	% Moisture :	11.4
Calib. Ref.	: RAW049	Instrument ID :	T-006

PARAMETERS	RESULTS (ug/kg)	PRL (ug/kg)	MDL (ug/kg)
1,1,1-TRICHLOROETHANE	ND	560	37
1,1,2,2-TETRACHLOROETHANE	ND	560	37
1,1,2-TRICHLOROETHANE	ND	560	26
1,1-DICHLOROETHANE	ND	560	34
1,1-DICHLOROETHENE	ND	560	61
1,2-DICHLOROETHANE	ND	560	37
1,2-DICHLOROPROPANE	ND	560	42
2-BUTANONE	ND	5600	580
2-CHLOROETHYLVINYLETHER	ND	5600	19
2-HEXANONE	ND	5600	140
4-METHYL-2-PENTANONE	ND	5600	130
ACETONE	ND	5600	460
BENZENE	ND	560	28
BROMODICHLOROMETHANE	ND	560	29
BROMOFORM	ND	560	31
BROMOMETHANE	ND	560	72
CARBON DISULFIDE	ND	560	14
CARBON TETRACHLORIDE	ND	560	89
CHLOROBENZENE	ND	560	22
CHLOROETHANE	ND	560	200
CHLOROFORM	ND	560	48
CHLOROMETHANE	ND	560	230
CIS-1,2-DICHLOROETHENE	ND	560	33
CIS-1,3-DICHLOROPROPENE	ND	560	25
BROMOCHLOROMETHANE	ND	560	8.9
ETHYLBENZENE	ND	560	44
MTBE	ND	1100	42
METHYLENE CHLORIDE	600B	560	46
STYRENE	ND	560	49
TETRACHLOROETHENE	ND	560	27
TOLUENE	ND	560	35
TRANS-1,2-DICHLOROETHENE	ND	560	33
TRANS-1,3-DICHLOROPROPENE	ND	560	75
TRICHLOROETHENE	ND	560	29
VINYL ACETATE	ND	5600	81
VINYL CHLORIDE	ND	560	110
XYLENES	ND	560	120

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	113	52-149
TOLUENE-D8	93	65-135
BROMOFLUOROBENZENE	99	65-135

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:	01/17/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	01/17/00
Batch No.	: 00A053	Date Extracted:	01/18/00 23:26
Sample ID:	18609-2656	Date Analyzed:	01/18/00 23:26
Lab Samp ID:	A053-07	Dilution Factor:	100
Lab File ID:	RAW061	Matrix :	SOIL
Ext Btch ID:	VOA0203	% Moisture :	10.2
Calib. Ref.:	RAW049	Instrument ID :	T-006

PARAMETERS	RESULTS (ug/kg)	PRL (ug/kg)	MDL (ug/kg)
1,1,1-TRICHLOROETHANE	ND	560	37
1,1,2,2-TETRACHLOROETHANE	ND	560	37
1,1,2-TRICHLOROETHANE	ND	560	26
1,1-DICHLOROETHANE	ND	560	34
1,1-DICHLOROETHENE	ND	560	60
1,2-DICHLOROETHANE	ND	560	36
1,2-DICHLOROPROPANE	ND	560	42
2-BUTANONE	ND	5600	570
2-CHLOROETHYLVINYLETHER	ND	5600	19
2-HEXANONE	ND	5600	140
4-METHYL-2-PENTANONE	ND	5600	130
ACETONE	ND	5600	460
BENZENE	ND	560	28
BROMODICHLOROMETHANE	ND	560	29
BROMOFORM	ND	560	31
BROMOMETHANE	ND	560	71
CARBON DISULFIDE	ND	560	14
CARBON TETRACHLORIDE	ND	560	88
CHLOROBENZENE	ND	560	22
CHLOROETHANE	ND	560	200
CHLOROFORM	ND	560	47
CHLOROMETHANE	ND	560	230
CIS-1,2-DICHLOROETHENE	ND	560	32
CIS-1,3-DICHLOROPROPENE	ND	560	25
DIBROMOCHLOROMETHANE	ND	560	8.8
ETHYLBENZENE	ND	560	44
MTBE	ND	1100	41
METHYLENE CHLORIDE	750B	560	46
STYRENE	ND	560	49
TETRACHLOROETHENE	ND	560	27
TOLUENE	ND	560	35
TRANS-1,2-DICHLOROETHENE	ND	560	32
TRANS-1,3-DICHLOROPROPENE	ND	560	74
TRICHLOROETHENE	ND	560	28
VINYL ACETATE	ND	5600	80
VINYL CHLORIDE	ND	560	110
XYLENES	ND	560	120

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	118	52-149
TOLUENE-D8	91	65-135
BROMOFLUOROBENZENE	95	65-135

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:	01/17/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	01/17/00
Btch No.	: 00A053	Date Extracted:	01/19/00 00:04
Sample ID:	18609-2657	Date Analyzed:	01/19/00 00:04
Lab Samp ID:	A053-08	Dilution Factor:	100
Lab File ID:	RAW062	Matrix :	SOIL
Ext Btch ID:	VOA0203	% Moisture :	11.8
Calib. Ref.:	RAW049	Instrument ID :	T-006

PARAMETERS	RESULTS (ug/kg)	PRL (ug/kg)	MDL (ug/kg)
1,1,1-TRICHLOROETHANE	ND	570	38
1,1,2,2-TETRACHLOROETHANE	ND	570	38
1,1,2-TRICHLOROETHANE	ND	570	26
1,1-DICHLOROETHANE	ND	570	34
1,1-DICHLOROETHENE	ND	570	61
1,2-DICHLOROETHANE	ND	570	37
1,2-DICHLOROPROPANE	ND	570	43
2-BUTANONE	ND	5700	580
2-CHLOROETHYLVINYLETHER	ND	5700	19
2-HEXANONE	ND	5700	140
4-METHYL-2-PENTANONE	ND	5700	130
ACETONE	ND	5700	460
BENZENE	ND	570	28
BROMODICHLOROMETHANE	ND	570	29
BROMOFORM	ND	570	32
BROMOMETHANE	ND	570	72
CARBON DISULFIDE	ND	570	14
CARBON TETRACHLORIDE	ND	570	90
CHLOROBENZENE	ND	570	22
CHLOROETHANE	ND	570	200
CHLOROFORM	ND	570	48
CHLOROMETHANE	ND	570	230
CIS-1,2-DICHLOROETHENE	ND	570	33
CIS-1,3-DICHLOROPROPENE	ND	570	25
DIBROMOCHLOROMETHANE	ND	570	9
ETHYLBENZENE	ND	570	44
MTBE	ND	1100	42
METHYLENE CHLORIDE	730B	570	46
STYRENE	ND	570	50
TETRACHLOROETHENE	ND	570	28
TOLUENE	ND	570	36
TRANS-1,2-DICHLOROETHENE	ND	570	33
TRANS-1,3-DICHLOROPROPENE	ND	570	76
TRICHLOROETHENE	ND	570	29
VINYL ACETATE	ND	5700	81
VINYL CHLORIDE	ND	570	110
XYLENES	ND	570	120

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	111	52-149
TOLUENE-D8	97	65-135
BROMOFLUOROBENZENE	97	65-135

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:	01/17/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	01/17/00
Batch No.	: 00A053	Date Extracted:	01/19/00 00:43
Sample ID:	18609-2658	Date Analyzed:	01/19/00 00:43
Lab Samp ID:	A053-09	Dilution Factor:	100
Lab File ID:	RAW063	Matrix :	SOIL
Ext Btch ID:	VOA0203	% Moisture :	7.1
Calib. Ref.:	RAW049	Instrument ID :	T-006

PARAMETERS	RESULTS (ug/kg)	PRL (ug/kg)	MDL (ug/kg)
1,1,1-TRICHLOROETHANE	ND	540	36
1,1,2,2-TETRACHLOROETHANE	ND	540	36
1,1,2-TRICHLOROETHANE	ND	540	25
1,1-DICHLOROETHANE	ND	540	33
1,1-DICHLOROETHENE	ND	540	58
1,2-DICHLOROETHANE	ND	540	35
1,2-DICHLOROPROPANE	ND	540	40
2-BUTANONE	ND	5400	550
2-CHLOROETHYLVINYLETHER	ND	5400	18
2-HEXANONE	ND	5400	130
4-METHYL-2-PENTANONE	ND	5400	120
ACETONE	ND	5400	440
BENZENE	ND	540	27
BROMODICHLOROMETHANE	ND	540	28
BROMOFORM	ND	540	30
BROMOMETHANE	ND	540	69
CARBON DISULFIDE	ND	540	14
CARBON TETRACHLORIDE	ND	540	85
CHLOROBENZENE	ND	540	21
CHLOROETHANE	ND	540	190
CHLOROFORM	ND	540	46
CHLOROMETHANE	ND	540	220
CIS-1,2-DICHLOROETHENE	ND	540	31
CIS-1,3-DICHLOROPROPENE	ND	540	24
DIBROMOCHLOROMETHANE	ND	540	8.5
ETHYLBENZENE	2700	540	42
MTBE	ND	1100	40
METHYLENE CHLORIDE	730B	540	44
STYRENE	ND	540	47
TETRACHLOROETHENE	ND	540	26
TOLUENE	ND	540	34
TRANS-1,2-DICHLOROETHENE	ND	540	31
TRANS-1,3-DICHLOROPROPENE	ND	540	72
TRICHLOROETHENE	ND	540	27
VINYL ACETATE	ND	5400	77
VINYL CHLORIDE	ND	540	110
XYLENES	2900	540	120

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	118	52-149
TOLUENE-D8	109	65-135
BROMOFLUOROBENZENE	116	65-135

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:	01/17/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	01/17/00
Batch No.	: 00A053	Date Extracted:	01/18/00 18:56
Sample ID:	18609-2659	Date Analyzed:	01/18/00 18:56
Lab Samp ID:	A053-10	Dilution Factor:	1
Lab File ID:	RAW054	Matrix :	WATER
Ext Btch ID:	VOA0203	% Moisture :	NA
Calib. Ref.:	RAW049	Instrument ID :	T-006

PARAMETERS	RESULTS (ug/L)	PRL (ug/L)	MDL (ug/L)
1,1,1-TRICHLOROETHANE	ND	5	1.1
1,1,2,2-TETRACHLOROETHANE	ND	5	.49
1,1,2-TRICHLOROETHANE	ND	5	.52
1,1-DICHLOROETHANE	ND	5	1.2
1,1-DICHLOROETHENE	ND	5	2
1,2-DICHLOROETHANE	ND	5	.58
1,2-DICHLOROPROPANE	ND	5	.53
2-BUTANONE	ND	50	7.9
2-CHLOROETHYLVINYLETHER	ND	50	.83
2-HEXANONE	ND	50	1
4-METHYL-2-PENTANONE	ND	50	1
ACETONE	ND	50	10
BENZENE	ND	5	.85
BROMODICHLOROMETHANE	ND	5	.33
BROMOFORM	ND	5	.29
BROMOMETHANE	ND	5	1.5
CARBON DISULFIDE	ND	5	1.3
CARBON TETRACHLORIDE	ND	5	1.3
CHLOROBENZENE	ND	5	.68
CHLOROETHANE	ND	5	2.9
CHLOROFORM	ND	5	.85
CHLOROMETHANE	ND	5	1.7
CIS-1,2-DICHLOROETHENE	ND	5	.97
CIS-1,3-DICHLOROPROPENE	ND	5	.47
DIBROMOCHLOROMETHANE	ND	5	.29
ETHYLBENZENE	ND	5	.72
MTBE	ND	10	.96
METHYLENE CHLORIDE	6.1B	5	1.8
STYRENE	ND	5	.58
TETRACHLOROETHENE	ND	5	1.2
TOLUENE	ND	5	.92
TRANS-1,2-DICHLOROETHENE	ND	5	1.5
TRANS-1,3-DICHLOROPROPENE	ND	5	.45
TRICHLOROETHENE	ND	5	.9
VINYL ACETATE	ND	50	6.2
VINYL CHLORIDE	ND	5	1.7
XYLENES	ND	5	2.4

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	109	62-139
TOLUENE-D8	106	75-125
BROMOFLUOROBENZENE	105	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:	01/18/00
Batch No.	: 00A053	Date Extracted:	01/18/00 18:17
Sample ID:	MBLK1W	Date Analyzed:	01/18/00 18:17
Lab Samp ID:	VOA0203Q	Dilution Factor:	1
Lab File ID:	RAW053	Matrix :	WATER
Ext Btch ID:	VOA0203	% Moisture :	NA
Calib. Ref.:	RAW049	Instrument ID :	T-006

PARAMETERS	RESULTS (ug/L)	PRL (ug/L)	MDL (ug/L)
1,1,1-TRICHLOROETHANE	ND	5	1.1
1,1,2,2-TETRACHLOROETHANE	ND	5	.49
1,1,2-TRICHLOROETHANE	ND	5	.52
1,1-DICHLOROETHANE	ND	5	1.2
1,1-DICHLOROETHENE	ND	5	2
1,2-DICHLOROETHANE	ND	5	.58
1,2-DICHLOROPROPANE	ND	5	.53
2-BUTANONE	ND	50	7.9
2-CHLOROETHYLVINYLETHER	ND	50	.83
2-HEXANONE	ND	50	1
4-METHYL-2-PENTANONE	ND	50	1
ACETONE	ND	50	10
BENZENE	ND	5	.85
BROMODICHLOROMETHANE	ND	5	.33
BROMOFORM	ND	5	.29
BROMOMETHANE	ND	5	1.5
CARBON DISULFIDE	ND	5	1.3
CARBON TETRACHLORIDE	ND	5	1.3
CHLOROBENZENE	ND	5	.68
CHLOROETHANE	ND	5	2.9
CHLOROFORM	ND	5	.85
CHLOROMETHANE	ND	5	1.7
CIS-1,2-DICHLOROETHENE	ND	5	.97
CIS-1,3-DICHLOROPROPENE	ND	5	.47
DIBROMOCHLOROMETHANE	ND	5	.29
ETHYLBENZENE	ND	5	.72
MTBE	ND	10	.96
METHYLENE CHLORIDE	7	5	1.8
STYRENE	ND	5	.58
TETRACHLOROETHENE	ND	5	1.2
TOLUENE	ND	5	.92
TRANS-1,2-DICHLOROETHENE	ND	5	1.5
TRANS-1,3-DICHLOROPROPENE	ND	5	.45
TRICHLOROETHENE	ND	5	.9
VINYL ACETATE	ND	50	6.2
VINYL CHLORIDE	ND	5	1.7
XYLENES	ND	5	2.4

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	111	62-139
TOLUENE-D8	108	75-125
BROMOFLUOROBENZENE	108	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:	01/18/00
Btch No.	: 00A053	Date Extracted:	01/18/00 17:38
Sample ID	: MBLK1S	Date Analyzed:	01/18/00 17:38
Lab Samp ID	: VOA0203B	Dilution Factor:	50
Lab File ID	: RAW052	Matrix :	SOIL
Ext Btch ID	: VOA0203	% Moisture :	NA
Calib. Ref.	: RAW049	Instrument ID :	T-006

PARAMETERS	RESULTS (ug/kg)	PRL (ug/kg)	MDL (ug/kg)
1,1,1-TRICHLOROETHANE	ND	250	17
1,1,2,2-TETRACHLOROETHANE	ND	250	17
1,1,2-TRICHLOROETHANE	ND	250	12
1,1-DICHLOROETHANE	ND	250	15
1,1-DICHLOROETHENE	ND	250	27
1,2-DICHLOROETHANE	ND	250	16
1,2-DICHLOROPROPANE	ND	250	19
2-BUTANONE	ND	2500	260
2-CHLOROETHYLVINYLETHER	ND	2500	8.5
2-HEXANONE	ND	2500	62
4-METHYL-2-PENTANONE	ND	2500	57
ACETONE	ND	2500	200
BENZENE	ND	250	12
BROMODICHLOROMETHANE	ND	250	13
BROMOFORM	ND	250	14
BROMOMETHANE	ND	250	32
CARBON DISULFIDE	ND	250	6.3
CARBON TETRACHLORIDE	ND	250	40
CHLOROBENZENE	ND	250	9.9
CHLOROETHANE	ND	250	89
CHLOROFORM	ND	250	21
CHLOROMETHANE	ND	250	100
CIS-1,2-DICHLOROETHENE	ND	250	15
CIS-1,3-DICHLOROPROPENE	ND	250	11
BROMOCHLOROMETHANE	ND	250	4
ETHYLBENZENE	ND	250	20
MTBE	ND	500	19
METHYLENE CHLORIDE	200J	250	20
STYRENE	ND	250	22
TETRACHLOROETHENE	ND	250	12
TOLUENE	ND	250	16
TRANS-1,2-DICHLOROETHENE	ND	250	14
TRANS-1,3-DICHLOROPROPENE	ND	250	33
TRICHLOROETHENE	ND	250	13
VINYL ACETATE	ND	2500	36
VINYL CHLORIDE	ND	250	50
XYLENES	ND	250	54

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	108	52-149
TOLUENE-D8	100	65-135
BROMOFLUOROBENZENE	104	65-135

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.: 00A053
METHOD: METHOD 5030A/8260A

MATRIX:	WATER			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK1W				
LAB SAMP ID:	VOA0203Q	VOA0203L	VOA0203C		
LAB FILE ID:	RAW053	RAW050	RAW051		
DATE EXTRACTED:	01/18/0018:17	01/18/0016:20	01/18/0016:59	DATE COLLECTED:	NA
DATE ANALYZED:	01/18/0018:17	01/18/0016:20	01/18/0016:59	DATE RECEIVED:	01/18/00
PREP. BATCH:	VOA0203	VOA0203	VOA0203		
CALIB. REF:	RAW049	RAW049	RAW049		

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	23.2	116	20	23	115	1	75-125	20
Benzene	ND	20	21.2	106	20	21	105	1	75-125	20
Chlorobenzene	ND	20	20.6	103	20	21.3	107	4	75-125	20
Toluene	ND	20	21.2	106	20	20.4	102	4	74-125	20
Trichloroethene	ND	20	20.1	101	20	19.5	98	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	51.7	103	50	54.3	109	62-139
Toluene-d8	50	52.3	105	50	52.6	105	75-125
Bromofluorobenzene	50	51	102	50	53.9	108	75-125

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
BATCH NO.: 00A053
METHOD: METHOD 5030A/8260A

MATRIX:	SOIL			% MOISTURE:	NA
DILUTION FACTOR:	50	1	1		
SAMPLE ID:	MBLK1S				
LAB SAMP ID:	VOA0203B	VOA0203L	VOA0203C		
LAB FILE ID:	RAW052	RAW050	RAW051		
DATE EXTRACTED:	01/18/0017:38	01/18/0016:20	01/18/0016:59	DATE COLLECTED:	NA
DATE ANALYZED:	01/18/0017:38	01/18/0016:20	01/18/0016:59	DATE RECEIVED:	01/18/00
PREP. BATCH:	VOA0203	VOA0203	VOA0203		
CALIB. REF:	RAW049	RAW049	RAW049		

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
1,1-Dichloroethene	ND	20	23.2	116	20	23	115	1	65-135	30
Benzene	ND	20	21.2	106	20	21	105	1	65-135	30
Chlorobenzene	ND	20	20.6	103	20	21.3	107	4	65-135	30
Toluene	ND	20	21.2	106	20	20.4	102	4	64-135	30
Trichloroethene	ND	20	20.1	101	20	19.5	98	3	61-135	30

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT (%)
1,2-Dichlorethane-d4	50	51.7	103	50	54.3	109	52-149
Toluene-d8	50	52.3	105	50	52.6	105	65-135
Bromofluorobenzene	50	51	102	50	53.9	108	65-135

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

Date: 02-18-2000
EMAX Batch No.: 00A053A

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 01/17/00 and requested the following analysis on 01/31/00. The data reported include :

Sample ID	Control #	Col Date	Matrix	Analysis
18609-2650	A053-01	01/17/00	Soil	SPLP TPH-Gas SPLP M8015
18609-2652	A053-03	01/17/00	Soil	SPLP M8015

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

METH 312/M8015
TOTAL PETROLEUM OCARBONS BY EXTRACTION

Client : IT CORPORATION
Project : MCAS EL TORO/18609/D.O. 70
Batch No. : 00A053A

Matrix : WATER
Instrument ID : GCT019

SAMPLE ID	EMAX SAMPLE ID	RESULTS (mg/L)	SUR1 (%)	SUR2 (%)	DLF	MOIST	PQL (mg/L)	MDL (mg/L)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1W	DSB004WB	ND	74	102	1	NA	.1	.038	02/06/0006:37	02/04/0018:00	TB02073A	TB02071A	DSB004W	NA	02/04/00
LCS1W	DSB004WL	5.04	85	94	1	NA	.1	.038	02/06/0007:14	02/04/0018:00	TB02074A	TB02071A	DSB004W	NA	02/04/00
LCD1W	DSB004WC	5.34	87	101	1	NA	.1	.038	02/06/0007:52	02/04/0018:00	TB02075A	TB02071A	DSB004W	NA	02/04/00
MBLKW2	TXA006SB	ND	76	97	1	NA	.1	.038	02/06/0009:43	02/04/0018:00	TB02078A	TB02071A	DSB004W	NA	02/04/00
18609-2650	A053-01	440*	DO	DO	100	NA	10	3.8	02/09/0002:49	02/04/0018:00	TB03062A	TB03057A	DSB004W	01/17/00	01/17/00
18609-2652	A053-03	5.8*	72	85	1	NA	.1	.038	02/06/0011:36	02/04/0018:00	TB02081A	TB02071A	DSB004W	01/17/00	01/17/00

PQL : Project Quantitation Limit
SURR1 : Bromobenzene 65-135 60-140
SURR2 : Hexacosane 60-140 55-150
H-C RANGE: C7 -C18 = JP5
C10-C24 = Diesel
C18-C34 = Motor Oil
C6 -C12 = Gas
DO : Diluted Out
* : Mixture of JP5 and Diesel, calculated as Diesel.

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

IENT: IT CORPORATION
OJECT: MCAS EL TORO/18609/D.O. 70
TCH NO.: 00A053A
THOD: METHOD SW1312/M8015

TRIX:	WATER			% MOISTURE:	NA
LUTION FACTOR:	1	1	1		
MPLE ID:	MBLK1W				
B SAMP ID:	DSB004WB	DSB004WL	DSB004WC		
B FILE ID:	TB02073A	TB02074A	TB02075A		
TE EXTRACTED:	02/04/0018:00	02/04/0018:00	02/04/0018:00	DATE COLLECTED:	NA
TE ANALYZED:	02/06/0006:37	02/06/0007:14	02/06/0007:52	DATE RECEIVED:	02/04/00
EP. BATCH:	DSB004W	DSB004W	DSB004W		
LIB. REF:	TB02071A	TB02071A	TB02071A		

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 (%)
esel	ND	5	5.04	101	5	5.34	107	6	61-143	30

RROGATE PARAMETER	SPIKE AMT (mg/L)	BS RSLT (mg/L)	BS % REC	SPIKE AMT (mg/L)	BSD RSLT (mg/L)	BSD % REC	QC LIMIT (%)
omobenzene	1	.848	85	1	.87	87	65-135
xacosane	1	.938	94	1	1.01	101	60-140

METHOD [illegible]2/M8015
TOTAL PETROLEUM HYDRO[illegible]BONS BY PURGE & TRAP

Client : IT CORPORATION
Project : MCAS EL TORO/18609/D.O. 70
Batch No. : 00A053A

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	VAA4839B	ND	80	1	NA	.1	.018	02/02/0018:52	02/02/0018:52	EA16092A	EA16082A	VAA4839	NA	02/02/00
LCS1W	VAA4839L	1.14	94	1	NA	.1	.018	02/02/0020:36	02/02/0020:36	EA16095A	EA16094A	VAA4839	NA	02/02/00
LCD1W	VAA4839C	1.09	90	1	NA	.1	.018	02/02/0021:11	02/02/0021:11	EA16096A	EA16094A	VAA4839	NA	02/02/00
MBLK2W	TVA005SB	ND	78	1	NA	.1	.018	02/03/0001:11	02/03/0001:11	EA16103A	EA16094A	VAA4839	NA	02/03/00
18609-2652	A053-03	2.7**	117	1	NA	.1	.018	02/03/0001:46	02/03/0001:46	EA16104A	EA16094A	VAA4839	01/17/00	01/17/00

SURR : Bromofluorobenzene
PRL : Reporting Limit
E : Value exceed the upper level of the initial calibration
D : Value from dilution
** : Presence of heavier HC pattern in the Chromatogram
Extraction Date: 02/01/00 14:00

2004

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
BATCH NO.: 00A053A
METHOD: METHOD SW1312/M8015

==========

MATRIX:	WATER			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK1W				
LAB SAMP ID:	VAA4839B	VAA4839L	VAA4839C		
LAB FILE ID:	EA16092A	EA16095A	EA16096A		
DATE EXTRACTED:	02/02/0018:52	02/02/0020:36	02/02/0021:11	DATE COLLECTED:	NA
DATE ANALYZED:	02/02/0018:52	02/02/0020:36	02/02/0021:11	DATE RECEIVED:	02/02/00
PREP. BATCH:	VAA4839	VAA4839	VAA4839		
CALIB. REF:	EA16082A	EA16094A	EA16094A		

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	1.1	1.14	104	1.1	1.09	100	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	.05	.0469	94	.05	.0448	90	65-135

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

CHAIN-OF-CUSTODY REC

Do 70 PROJECT DATA MANAGER'S COPY

A 10647

Tank Farm 398

FORM 0019 REV. 9-99

LAB COORDINATOR: I. Concepcion	LAB COORDINATOR'S PHONE: 949-660-7550	LAB COORDINATOR'S FAX: 949-475-5433	LABORATORY SERVICE ID: A061	LABORATORY CONTACT: EMAX	MAIL REPORT (COMPANY NAME): IT Group
PROJECT NAME: El Toro-DO70	PROJECT LOCATION: MCAS El Toro, CA	PROJECT NUMBER: 18609	LABORATORY PHONE: 310-618-8889	LABORATORY FAX: —	RECIPIENT NAME: Dwayne Ishida
PROJECT CONTACT: M. Concepcion	PROJECT PHONE NUMBER: 949-451-1667	PROJECT FAX: 949-475-5433	LABORATORY ADDRESS: 630 Maple		ADDRESS: 3347 Michelson Dr. #200
PROJECT ADDRESS: —	CITY, STATE AND ZIP CODE: —	CLIENT: SWDIV	CITY, STATE AND ZIP CODE: Torrance CA		CITY, STATE AND ZIP CODE: Irvine, CA 92612
PROJECT MANAGER: S. Sedlak	PROJECT MANAGER'S PHONE: 949-660-5446	PROJECT MANAGER'S FAX: —			

EPA 1312 (hold)

Item	Sample Identifier	Matrix	Date (2000)	Time	Preserved	# of Cont.	QC Level	T.A.T.	Analyses: 8015-JP-5	8015-GAS	8260+MTBE	8015-Diesel	EPA 1312 (hold)	Comments
	18609-2660	W	1-18	0750	HCl	2	3	5-Day			X			
	18609-2661	S	1-18	0824	None	1	3		X	X	X	X	X	
	18609-2662	S	1-18	0849	None	1	3		X	X	X	X	X	SPLP GAS / SPLP BTEX
	18609-2663	S	1-18	0901	None	1	3		X	X	X	X	X	
	18609-2664	S	1-18	0914	None	1	3		X	X	X	X	X	
	18609-2665	S	1-18	0926	None	1	3		X	X	X	X	X	SPLP EXT SPLP GAS.
	18609-2666	S	1-18	0955	None	1	3		X	X	X	X	X	~~not reported mg/kg~~ reported on A061B for 8260 analyzed
	18609-2667	S	1-18	1009	None	1	3		X	X	X	X	X	← ~~This sample on hold.~~ SPLP EXT / SPLP GAS
	18609-2668	W	1-18	1025	HCl 4°C	8	3	5-Day	X	X	X	X		
0	18609-2669	S	1-18	1457	None	1	3	5-Day	X	X	X	X	X	

SAMPLES COLLECTED BY: A. Siddiqui

COURIER AND AIR BILL NUMBER: Courier

COOLER TEMPERATURE UPON RECEIPT:

RELINQUISHED BY	RECEIVED BY	DATE	TIME	SAMPLE'S CONDITION UPON RECEIPT
Adnan Siddiqui	[signature]	1-18	1510	

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

Do 70

Tank Farm 398

Sample Point Location	Sample Type: G	C	F	QC
① TRIP BLANK	X		X	X
② CB398-28 From 129.5-130	X		X	
③ CB398-28 From 139.5-140	X		X	
④ CB398-28 From 149.5-150	X		X	
⑤ CB398-28 160-160.5	X		X	
⑥ CB398-28 From 169.5-170	X		X	
⑦ CB398-28 From 185 to 185.5	X		X	
⑧ CB398-28 (Hold) From 189.5-190 (wet)	X		X	
⑨ EQUIPMEN RINSATE	X		X	X
⑩ CB398-10 From 40-40.5	X		X	

Comments: saturated w/fuel

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

AC

SPLP(A666) 4637

[redacted]

COMPLETED SW 2/3/00

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

CHAIN-OF-CUSTODY RECORD

D070

TANK FARM 398

PROJECT DATA MANAGER'S COPY

A 10641

FORM 0019 REV. 9-99

LAB COORDINATOR	LAB COORDINATOR'S PHONE	LAB COORDINATOR'S FAX	LABORATORY SERVICE ID	LABORATORY CONTACT	MAIL REPORT (COMPANY NAME)
M. Concepcion	949 660 7550	949 475 5433	A061	EMAX	IT Group

PROJECT NAME	PROJECT LOCATION	PROJECT NUMBER	LABORATORY PHONE	LABORATORY FAX	RECIPIENT NAME
ELTORO D070	MAS ELTORO CA	18609	3106188889		Duane Ishida

PROJECT CONTACT	PROJECT PHONE NUMBER	PROJECT FAX	LABORATORY ADDRESS	ADDRESS
M. Concepcion	949-451-1667	949 475-5433	630 Maple	3347 Michelson Dr #200

PROJECT ADDRESS	CITY, STATE AND ZIP CODE	CLIENT	CITY, STATE AND ZIP CODE	CITY, STATE AND ZIP CODE
—		SWDIV	Torrance CA	IRVINE CA 92612

PROJECT MANAGER	PROJECT MANAGER'S PHONE	PROJECT MANAGER'S FAX
S. Sedlak	949 660 5446	—

ANALYZE "X" CAP

Item	Sample Identifier	Matrix	2000 Date	Time	Preserved	# of Cont.	QC Level	T.A.T.	Analyses: 8015 Diesel	8015-JP-5	8015-GAS	8260 + MTBE	EPA 1312 (hold)				Comments
	18609-2670	S	1-18	1545	None	1	3	5-Day	X	X	X	X	X				EPA 1312 on HOLD

SAMPLES COLLECTED BY: A. Siddique

COURIER AND AIR BILL NUMBER: Courier

COOLER TEMPERATURE UPON RECEIPT:

RELINQUISHED BY	RECEIVED BY	DATE	TIME	SAMPLE'S CONDITION UPON RECEIPT
Adnan Siddique	[signature]	1-18-00	1:10	

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

D070

Tank Farm 398

Sample Point Location	Sample Type: G	C	F	QC
① CB398-10				
Frm 79.5-80'				

Comments

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

AC

SPLP 4666 4637

4526E

E

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

Date: 02-11-2000
EMAX Batch No.: 00A061

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 01/18/00. The data reported include :

Sample ID	Control #	Col Date	Matrix	Analysis
18609-2660	A061-01	01/18/00	Water	Volatile Organics by GC/MS
18609-2661	A061-02	01/18/00	Soil	Modified 8015 by Extraction
				Modified 8015 by Purge & Trap
				Volatile Organics by GC/MS
18609-2662	A061-03	01/18/00	Soil	Volatile Organics by GC/MS
				Modified 8015 by Extraction
				Modified 8015 by Purge & Trap
18609-2663	A061-04	01/18/00	Soil	Modified 8015 by Purge & Trap
				Modified 8015 by Extraction
				Volatile Organics by GC/MS
18609-2664	A061-05	01/18/00	Soil	Volatile Organics by GC/MS
				Modified 8015 by Extraction
				Modified 8015 by Purge & Trap
18609-2665	A061-06	01/18/00	Soil	Modified 8015 by Extraction
				Modified 8015 by Purge & Trap
				Volatile Organics by GC/MS
18609-2666	A061-07	01/18/00	Soil	Volatile Organics by GC/MS
				Modified 8015 by Extraction
				Modified 8015 by Purge & Trap

Sample ID	Control #	Col Date	Matrix	Analysis
18609-2667	A061-08	01/18/00	Soil	Modified 8015 by Extraction
18609-2668	A061-09	01/18/00	Water	Modified 8015 by Purge & Trap
				Modified 8015 by Extraction
				Volatile Organics by GC/MS
18609-2669	A061-10	01/18/00	Soil	Volatile Organics by GC/MS
				Modified 8015 by Extraction
				Modified 8015 by Purge & Trap
18609-2670	A061-11	01/18/00	Soil	Modified 8015 by Extraction
				Modified 8015 by Purge & Trap
				Volatile Organics by GC/MS

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
Project : MCAS EL TORO/18609/D.O. 70
Batch No. : 00A061

Matrix : SOIL
Instrument ID : GCT019

SAMPLE ID	EMAX SAMPLE ID	RESULTS (mg/kg)	SUR1 (%)	SUR2 (%)	DLF	MOIST	RL (mg/kg)	MDL (mg/kg)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1S	DSA031SB	ND	67	62	1	NA	10	2.1	01/31/0011:53	01/19/0014:30	TA14006A	TA14002A	DSA031S	NA	01/19/00
LCS1S	DSA031SL	436	69	62	1	NA	10	2.1	01/31/0012:30	01/19/0014:30	TA14007A	TA14002A	DSA031S	NA	01/19/00
18609-2661	A061-02	14000**	DO	DO	20	11.6	11.3	2.37	01/29/0005:25	01/19/0014:30	TA12067A	TA12062A	DSA031S	01/18/00	01/18/00
18609-2662	A061-03	12000**	DO	DO	50	5.9	10.6	2.23	01/29/0006:02	01/19/0014:30	TA12068A	TA12062A	DSA031S	01/18/00	01/18/00
18609-2663	A061-04	5000**	DO	DO	5	25.1	13.4	2.8	01/29/0006:39	01/19/0014:30	TA12069A	TA12062A	DSA031S	01/18/00	01/18/00
18609-2664	A061-05	10000**	DO	DO	10	14.0	11.6	2.44	01/29/0007:16	01/19/0014:30	TA12070A	TA12062A	DSA031S	01/18/00	01/18/00
18609-2665	A061-06	31000**	DO	DO	50	7.6	10.8	2.27	01/29/0007:53	01/19/0014:30	TA12071A	TA12062A	DSA031S	01/18/00	01/18/00
18609-2666	A061-07	2400**	DO	DO	5	13.9	11.6	2.43	01/29/0008:30	01/19/0014:30	TA12072A	TA12062A	DSA031S	01/18/00	01/18/00
18609-2667	A061-08	13000**	DO	DO	20	13.0	11.5	2.41	01/29/0015:19	01/19/0014:30	TA13008A	TA13002A	DSA031S	01/18/00	01/18/00
18609-2669	A061-10	15000**	DO	DO	10	18.8	12.3	2.58	01/29/0012:50	01/19/0014:30	TA13004A	TA13002A	DSA031S	01/18/00	01/18/00
18609-2670	A061-11	760**	82	74	1	14.4	11.7	2.45	01/29/0013:27	01/19/0014:30	TA13005A	TA13002A	DSA031S	01/18/00	01/18/00
18609-2670MS	A061-11M	1400	87	75	1	14.4	11.7	2.45	01/29/0014:05	01/19/0014:30	TA13006A	TA13002A	DSA031S	01/18/00	01/18/00
18609-2670MSD	A061-11S	1100	78	73	1	14.4	11.7	2.45	01/29/0014:42	01/19/0014:30	TA13007A	TA13002A	DSA031S	01/18/00	01/18/00

QC LIMIT : (SOIL) 60-140 55-150
QC LIMIT : (WATER) 65-135 60-145
SURR1 : Bromobenzene
SURR2 : Hexacosane
RL : Reporting Limit
** : Chromatogram shows a mixture of JP5 and Diesel, results were calculated based on Diesel calibration factor.

METHOD M8015
TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

Client : IT CORPORATION
Project : MCAS EL TORO/18609/D.O. 70
Batch No. : 00A061

Matrix : WATER
Instrument ID : GCT019

SAMPLE ID	EMAX SAMPLE ID	RESULTS (mg/L)	SUR1 (%)	SUR2 (%)	DLF	MOIST	RL (mg/L)	MDL (mg/L)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1W	DSA032WB	ND	69	82	1	NA	.1	.038	01/29/0004:10	01/20/0015:00	TA12065A	TA12062A	DSA032W	NA	01/20/00
LCS1W	DSA032WL	5.08	75	83	1	NA	.1	.038	01/28/0010:49	01/20/0015:00	TA12037A	TA12026A	DSA032W	NA	01/20/00
LCD1W	DSA032WC	5.05	72	80	1	NA	.1	.038	01/28/0013:18	01/20/0015:00	TA12041A	TA12038A	DSA032W	NA	01/20/00
18609-2668	A061-09	ND	70	83	.98	NA	.098	.0372	01/28/0016:25	01/20/0015:00	TA12046A	TA12038A	DSA032W	01/18/00	01/18/00

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

LIENT: IT CORPORATION
ROJECT: MCAS EL TORO/18609/D.O. 70
ATCH NO.: 00A061
ETHOD: METHOD M8015

ATRIX:	WATER			% MOISTURE:	NA
ILUTION FACTOR:	1	1	1		
AMPLE ID:	MBLK1W				
AB SAMP ID:	DSA032WB	DSA032WL	DSA032WC		
AB FILE ID:	TA12065A	TA12037A	TA12041A		
ATE EXTRACTED:	01/20/0015:00	01/20/0015:00	01/20/0015:00	DATE COLLECTED:	NA
ATE ANALYZED:	01/29/0004:10	01/28/0010:49	01/28/0013:18	DATE RECEIVED:	01/20/00
REP. BATCH:	DSA032W	DSA032W	DSA032W		
ALIB. REF:	TA12062A	TA12026A	TA12038A		

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 (%)
iesel	ND	5	5.08	102	5	5.05	101	1	61-143	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 (%)
romobenzene	1	.75	75	1	.718	72	65-135
exacosane	1	.826	83	1	.8	80	60-145

50/

EMAX QUALITY CONTROL DATA
LCS ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
BATCH NO.: 00A061
METHOD: METHOD M8015

==========

MATRIX: SOIL % MOISTURE: NA
DILUTION FACTOR: 1 1
SAMPLE ID: MBLK1S
LAB SAMP ID: DSA031SB DSA031SL
LAB FILE ID: TA14006A TA14007A
DATE EXTRACTED: 01/19/0014:30 01/19/0014:30 DATE COLLECTED: NA
DATE ANALYZED: 01/31/0011:53 01/31/0012:30 DATE RECEIVED: 01/19/00
PREP. BATCH: DSA031S DSA031S
CALIB. REF: TA14002A TA14002A

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	QC LIMIT (%)
Diesel	ND	500	436	87	51-153

==========

SURROGATE PARAMETER	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	QC LIMIT (%)
Bromobenzene	100	69.5	69	60-140
Hexacosane	100	62.3	62	55-150

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

LIENT: IT CORPORATION
ROJECT: MCAS EL TORO/18609/D.O. 70
ATCH NO.: 00A061
ETHOD: METHOD M8015

ATRIX:	SOIL			% MOISTURE:	14.4
ILUTION FACTOR:	1	1	1		
AMPLE ID:	18609-2670				
AB SAMP ID:	A061-11	A061-11M	A061-11S		
AB FILE ID:	TA13005A	TA13006A	TA13007A		
ATE EXTRACTED:	01/19/0014:30	01/19/0014:30	01/19/0014:30	DATE COLLECTED:	01/18/00
ATE ANALYZED:	01/29/0013:27	01/29/0014:05	01/29/0014:42	DATE RECEIVED:	01/18/00
REP. BATCH:	DSA031S	DSA031S	DSA031S		
ALIB. REF:	TA13002A	TA13002A	TA13002A		

CCESSION:

ARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	MS RSLT (mg/kg)	MS % REC	SPIKE AMT (mg/kg)	MSD RSLT (mg/kg)	MSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
iesel	760	584	1400	112	584	1100	65	21	51-153	50

URROGATE PARAMETER	SPIKE AMT (mg/kg)	MS RSLT (mg/kg)	MS % REC	SPIKE AMT (mg/kg)	MSD RSLT (mg/kg)	MSD % REC	QC LIMIT (%)
romobenzene	117	101	87	117	91.5	78	60-140
exacosane	117	88.2	75	117	85.5	73	55-150

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

Client : IT CORPORATION
Project : MCAS EL TORO/18609/D.O. 70
Batch No. : 00A061

Matrix : SOIL
Instrument ID : GCT039

SAMPLE ID	EMAX SAMPLE ID	RESULTS (mg/kg)	SURR (%)	DLF	MOIST	RL (mg/kg)	MDL (mg/kg)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1S	VMA2939B	ND	74	10	NA	10	.88	01/21/0018:58	01/21/0018:58	EA12009A	EA12003A	VMA2939	NA	01/21/00
LCS1S	VMA2939L	49.9	77	10	NA	10	.88	01/21/0019:32	01/21/0019:32	EA12010A	EA12003A	VMA2939	NA	01/21/00
LCD1S	VMA2939C	48.5	83	10	NA	10	.88	01/21/0020:07	01/21/0020:07	EA12011A	EA12003A	VMA2939	NA	01/21/00
MBLK2S	VMA3439B	ND	80	10	NA	10	.88	01/25/0013:30	01/25/0013:30	EA13045A	EA13039A	VMA3439	NA	01/25/00
LCS2S	VMA3439L	51.3	86	10	NA	10	.88	01/25/0014:04	01/25/0014:04	EA13046A	EA13039A	VMA3439	NA	01/25/00
LCD2S	VMA3439C	42.8	78	10	NA	10	.88	01/25/0014:39	01/25/0014:39	EA13047A	EA13039A	VMA3439	NA	01/25/00
18609-2661	A061-02	8200**	84	1000	11.6	1130	99.5	01/22/0003:00	01/22/0003:00	EA12023A	EA12015A	VMA2939	01/18/00	01/18/00
18609-2662	A061-03	13000**	91	1000	5.9	1060	93.5	01/21/0021:16	01/21/0021:16	EA12013A	EA12003A	VMA2939	01/18/00	01/18/00
18609-2663	A061-04	1700**	110	100	25.1	134	11.7	01/25/0020:39	01/25/0020:39	EA13057A	EA13051A	VMA3439	01/18/00	01/18/00
18609-2664	A061-05	7300**	84	1000	14.0	1160	102	01/21/0022:59	01/21/0022:59	EA12016A	EA12015A	VMA2939	01/18/00	01/18/00
18609-2665	A061-06	17000**	100	1000	7.6	1080	95.2	01/21/0023:33	01/21/0023:33	EA12017A	EA12015A	VMA2939	01/18/00	01/18/00
18609-2666	A061-07	3200**	87	200	13.9	232	20.4	01/22/0000:07	01/22/0000:07	EA12018A	EA12015A	VMA2939	01/18/00	01/18/00
18609-2669	A061-10	8300**	84	1000	18.8	1230	108	01/22/0001:16	01/22/0001:16	EA12020A	EA12015A	VMA2939	01/18/00	01/18/00
18609-2670	A061-11	500**	73	100	14.4	117	10.3	01/25/0021:14	01/25/0021:14	EA13058A	EA13051A	VMA3439	01/18/00	01/18/00

SURR : Bromofluorobenzene
PRL : Reporting Limit
E : Value exceed the upper level of the initial calibration
D : Value from dilution
** : Presence of HC heavier than gasoline.

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

Client : IT CORPORATION
Project : MCAS EL TORO/18609/D.O. 70
Batch No. : 00A061

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	VAA2439B	ND	78	1	NA	.1	.018	01/19/0012:05	01/19/0012:05	EA11004A	EA11003A	VAA2439	NA	01/19/00
LCS1W	VAA2439L	1.08	94	1	NA	.1	.018	01/19/0012:42	01/19/0012:42	EA11005A	EA11003A	VAA2439	NA	01/19/00
LCD1W	VAA2439C	.986	93	1	NA	.1	.018	01/19/0013:19	01/19/0013:19	EA11006A	EA11003A	VAA2439	NA	01/19/00
18609-2668	A061-09	ND	80	1	NA	.1	.018	01/19/0019:27	01/19/0019:27	EA11016A	EA11015A	VAA2439	01/18/00	01/18/00
18609-2668MS	A061-09M	1.0	87	1	NA	.1	.018	01/19/0020:03	01/19/0020:03	EA11017A	EA11015A	VAA2439	01/18/00	01/18/00
18609-2668MSD	A061-09S	1.03	92	1	NA	.1	.018	01/19/0020:39	01/19/0020:39	EA11018A	EA11015A	VAA2439	01/18/00	01/18/00

SURR : Bromofluorobenzene
PRL : Reporting Limit
E : Value exceed the upper level of the initial calibration
D : Value from dilution

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

Client : IT CORPORATION
Project : MCAS EL TORO/18609/D.O. 70
Batch No. : 00A061A

Matrix : SOIL
Instrument ID : GCT039

SAMPLE ID	EMAX SAMPLE ID	RESULTS (mg/kg)	SURR (%)	DLF	MOIST	RL (mg/kg)	MDL (mg/kg)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1S	VMA2939B	ND	74	10	NA	10	.88	01/21/0018:58	01/21/0018:58	EA12009A	EA12003A	VMA2939	NA	01/21/00
LCS1S	VMA2939L	49.9	77	10	NA	10	.88	01/21/0019:32	01/21/0019:32	EA12010A	EA12003A	VMA2939	NA	01/21/00
LCD1S	VMA2939C	48.5	83	10	NA	10	.88	01/21/0020:07	01/21/0020:07	EA12011A	EA12003A	VMA2939	NA	01/21/00
18609-2667	A061-08	7100*	79	1000	13.0	1150	101	01/22/0000:42	01/22/0000:42	EA12019A	EA12015A	VMA2939	01/18/00	01/18/00

SURR : Bromofluorobenzene
PRL : Reporting Limit
* : Chromatogram exhibits heavier pattern of HC.

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
PROJECT NO.: 00A061
METHOD: METHOD 5030B/M8015

MATRIX:	WATER			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK1W				
LAB SAMP ID:	VAA2439B	VAA2439L	VAA2439C		
LAB FILE ID:	EA11004A	EA11005A	EA11006A		
DATE EXTRACTED:	01/19/0012:05	01/19/0012:42	01/19/0013:19	DATE COLLECTED:	NA
DATE ANALYZED:	01/19/0012:05	01/19/0012:42	01/19/0013:19	DATE RECEIVED:	01/19/00
PREP. BATCH:	VAA2439	VAA2439	VAA2439		
CALIB. REF:	EA11003A	EA11003A	EA11003A		

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	1.1	1.08	98	1.1	.986	90	9	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	.05	.0471	94	.05	.0464	93	65-135

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
BATCH NO.: 00A061
METHOD: METHOD 5030B/M8015

MATRIX:	SOIL			% MOISTURE:	NA
DILUTION FACTOR:	10	10	10		
SAMPLE ID:	MBLK1S				
LAB SAMP ID:	VMA2939B	VMA2939L	VMA2939C		
LAB FILE ID:	EA12009A	EA12010A	EA12011A		
DATE EXTRACTED:	01/21/0018:58	01/21/0019:32	01/21/0020:07	DATE COLLECTED:	NA
DATE ANALYZED:	01/21/0018:58	01/21/0019:32	01/21/0020:07	DATE RECEIVED:	01/21/00
PREP. BATCH:	VMA2939	VMA2939	VMA2939		
CALIB. REF:	EA12003A	EA12003A	EA12003A		

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
Gasoline	ND	55	49.9	91	55	48.5	88	3	57-146	50

SURROGATE PARAMETER	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	QC LIMIT (%)
Bromofluorobenzene	2.5	1.94	77	2.5	2.08	83	60-140

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
BATCH NO.: 00A061
METHOD: METHOD 5030B/M8015

MATRIX:	SOIL			% MOISTURE:	NA
DILUTION FACTOR:	10	10	10		
SAMPLE ID:	MBLK2S				
LAB SAMP ID:	VMA3439B	VMA3439L	VMA3439C		
LAB FILE ID:	EA13045A	EA13046A	EA13047A		
DATE EXTRACTED:	01/25/0013:30	01/25/0014:04	01/25/0014:39	DATE COLLECTED:	NA
DATE ANALYZED:	01/25/0013:30	01/25/0014:04	01/25/0014:39	DATE RECEIVED:	01/25/00
PREP. BATCH:	VMA3439	VMA3439	VMA3439		
CALIB. REF:	EA13039A	EA13039A	EA13039A		

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
Gasoline	ND	55	51.3	93	55	42.8	78	18	57-146	50

SURROGATE PARAMETER	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	QC LIMIT (%)
Bromofluorobenzene	2.5	2.16	86	2.5	1.95	78	60-140

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
BATCH NO.: 00A061
METHOD: METHOD 5030B/M8015

MATRIX:	WATER			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	18609-2668				
LAB SAMP ID:	A061-09	A061-09M	A061-09S		
LAB FILE ID:	EA11016A	EA11017A	EA11018A		
DATE EXTRACTED:	01/19/0019:27	01/19/0020:03	01/19/0020:39	DATE COLLECTED:	01/18/00
DATE ANALYZED:	01/19/0019:27	01/19/0020:03	01/19/0020:39	DATE RECEIVED:	01/18/00
PREP. BATCH:	VAA2439	VAA2439	VAA2439		
CALIB. REF:	EA11015A	EA11015A	EA11015A		

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	1.1	1.0	91	1.1	1.03	93	3	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	.05	.0435	87	.05	.0458	92	65-135

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
BATCH NO.: 00A061A
METHOD: METHOD 5030B/M8015

MATRIX:	SOIL			% MOISTURE:	NA
DILUTION FACTOR:	10	10	10		
SAMPLE ID:	MBLK1S				
LAB SAMP ID:	VMA2939B	VMA2939L	VMA2939C		
LAB FILE ID:	EA12009A	EA12010A	EA12011A		
DATE EXTRACTED:	01/21/0018:58	01/21/0019:32	01/21/0020:07	DATE COLLECTED:	NA
DATE ANALYZED:	01/21/0018:58	01/21/0019:32	01/21/0020:07	DATE RECEIVED:	01/21/00
PREP. BATCH:	VMA2939	VMA2939	VMA2939		
CALIB. REF:	EA12003A	EA12003A	EA12003A		

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
Gasoline	ND	55	49.9	91	55	48.5	88	3	57-146	50

SURROGATE PARAMETER	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	QC LIMIT (%)
Bromofluorobenzene	2.5	1.94	77	2.5	2.08	83	60-140

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

Client	: IT CORPORATION	Date Collected:	01/18/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	01/18/00
Batch No.	: 00A061	Date Extracted:	01/21/00 19:39
Sample ID:	18609-2660	Date Analyzed:	01/21/00 19:39
Lab Samp ID:	A061-01	Dilution Factor:	1
Lab File ID:	RAP083	Matrix :	WATER
Ext Btch ID:	VOA0402	% Moisture :	NA
Calib. Ref.:	RAP078	Instrument ID :	T-002

PARAMETERS	RESULTS (ug/L)	PRL (ug/L)	MDL (ug/L)
1,1,1-TRICHLOROETHANE	ND	5	1.1
1,1,2,2-TETRACHLOROETHANE	ND	5	.49
1,1,2-TRICHLOROETHANE	ND	5	.52
1,1-DICHLOROETHANE	ND	5	1.2
1,1-DICHLOROETHENE	ND	5	2
1,2-DICHLOROETHANE	ND	5	.58
1,2-DICHLOROPROPANE	ND	5	.53
2-BUTANONE	ND	50	7.9
2-CHLOROETHYLVINYLETHER	ND	50	.83
2-HEXANONE	ND	50	1
4-METHYL-2-PENTANONE	ND	50	1
ACETONE	ND	50	10
BENZENE	ND	5	.85
BROMODICHLOROMETHANE	ND	5	.33
BROMOFORM	ND	5	.29
BROMOMETHANE	ND	5	1.5
CARBON DISULFIDE	ND	5	1.3
CARBON TETRACHLORIDE	ND	5	1.3
CHLOROBENZENE	ND	5	.68
CHLOROETHANE	ND	5	2.9
CHLOROFORM	ND	5	.85
CHLOROMETHANE	ND	5	1.7
CIS-1,2-DICHLOROETHENE	ND	5	.97
CIS-1,3-DICHLOROPROPENE	ND	5	.47
DIBROMOCHLOROMETHANE	ND	5	.29
ETHYLBENZENE	ND	5	.72
MTBE	ND	10	.96
METHYLENE CHLORIDE	2.6JB	5	1.8
STYRENE	ND	5	.58
TETRACHLOROETHENE	ND	5	1.2
TOLUENE	ND	5	.92
TRANS-1,2-DICHLOROETHENE	ND	5	1.5
TRANS-1,3-DICHLOROPROPENE	ND	5	.45
TRICHLOROETHENE	ND	5	.9
VINYL ACETATE	ND	50	6.2
VINYL CHLORIDE	ND	5	1.7
XYLENES	ND	5	2.4

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	89	62-139
TOLUENE-D8	94	75-125
BROMOFLUOROBENZENE	93	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:	01/18/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	01/18/00
Batch No.	: 00A061	Date Extracted:	01/24/00 19:59
Sample ID:	18609-2661	Date Analyzed:	01/24/00 19:59
Lab Samp ID:	A061-02	Dilution Factor:	500
Lab File ID:	RAP130	Matrix :	SOIL
Ext Btch ID:	VOA0502	% Moisture :	11.6
Calib. Ref.:	RAP121	Instrument ID :	T-002

PARAMETERS	RESULTS (ug/kg)	PRL (ug/kg)	MDL (ug/kg)
1,1,1-TRICHLOROETHANE	ND	2800	190
1,1,2,2-TETRACHLOROETHANE	ND	2800	190
1,1,2-TRICHLOROETHANE	ND	2800	130
1,1-DICHLOROETHANE	ND	2800	170
1,1-DICHLOROETHENE	ND	2800	300
1,2-DICHLOROETHANE	ND	2800	180
1,2-DICHLOROPROPANE	ND	2800	210
2-BUTANONE	ND	28000	2900
2-CHLOROETHYLVINYLETHER	ND	28000	96
2-HEXANONE	ND	28000	710
4-METHYL-2-PENTANONE	ND	28000	640
ACETONE	ND	28000	2300
BENZENE	ND	2800	140
BROMODICHLOROMETHANE	ND	2800	150
BROMOFORM	ND	2800	160
BROMOMETHANE	ND	2800	360
CARBON DISULFIDE	ND	2800	71
CARBON TETRACHLORIDE	ND	2800	450
CHLOROBENZENE	ND	2800	110
CHLOROETHANE	ND	2800	1000
CHLOROFORM	ND	2800	240
CHLOROMETHANE	ND	2800	1200
CIS-1,2-DICHLOROETHENE	ND	2800	160
CIS-1,3-DICHLOROPROPENE	ND	2800	130
DIBROMOCHLOROMETHANE	ND	2800	45
ETHYLBENZENE	31000	2800	220
MTBE	ND	5700	210
METHYLENE CHLORIDE	1300JB	2800	230
STYRENE	ND	2800	250
TETRACHLOROETHENE	ND	2800	140
TOLUENE	ND	2800	180
TRANS-1,2-DICHLOROETHENE	ND	2800	160
TRANS-1,3-DICHLOROPROPENE	ND	2800	380
TRICHLOROETHENE	ND	2800	140
VINYL ACETATE	ND	28000	400
VINYL CHLORIDE	ND	2800	570
XYLENES	30000	2800	620

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	97	52-149
TOLUENE-D8	123	65-135
BROMOFLUOROBENZENE	114	65-135

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:	01/18/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	01/18/00
Batch No.	: 00A061	Date Extracted:	01/21/00 21:22
Sample ID:	18609-2662	Date Analyzed:	01/21/00 21:22
Lab Samp ID:	A061-03	Dilution Factor:	200
Lab File ID:	RAP086	Matrix :	SOIL
Ext Btch ID:	VOA0402	% Moisture :	5.9
Calib. Ref.:	RAP078	Instrument ID :	T-002

PARAMETERS	RESULTS (ug/kg)	PRL (ug/kg)	MDL (ug/kg)
1,1,1-TRICHLOROETHANE	ND	1100	70
1,1,2,2-TETRACHLOROETHANE	ND	1100	70
1,1,2-TRICHLOROETHANE	ND	1100	50
1,1-DICHLOROETHANE	ND	1100	64
1,1-DICHLOROETHENE	ND	1100	110
1,2-DICHLOROETHANE	ND	1100	69
1,2-DICHLOROPROPANE	ND	1100	80
2-BUTANONE	ND	11000	1100
2-CHLOROETHYLVINYLETHER	ND	11000	36
2-HEXANONE	ND	11000	270
4-METHYL-2-PENTANONE	ND	11000	240
ACETONE	ND	11000	870
BENZENE	ND	1100	53
BROMODICHLOROMETHANE	ND	1100	55
BROMOFORM	ND	1100	59
BROMOMETHANE	ND	1100	140
CARBON DISULFIDE	ND	1100	27
CARBON TETRACHLORIDE	ND	1100	170
CHLOROBENZENE	ND	1100	42
CHLOROETHANE	ND	1100	380
CHLOROFORM	ND	1100	90
CHLOROMETHANE	ND	1100	440
CIS-1,2-DICHLOROETHENE	ND	1100	62
CIS-1,3-DICHLOROPROPENE	ND	1100	47
DIBROMOCHLOROMETHANE	ND	1100	17
ETHYLBENZENE	26000	1100	83
MTBE	ND	2100	79
METHYLENE CHLORIDE	560JB	1100	87
STYRENE	ND	1100	93
TETRACHLOROETHENE	ND	1100	52
TOLUENE	ND	1100	67
TRANS-1,2-DICHLOROETHENE	ND	1100	61
TRANS-1,3-DICHLOROPROPENE	ND	1100	140
TRICHLOROETHENE	ND	1100	54
VINYL ACETATE	ND	11000	150
VINYL CHLORIDE	ND	1100	210
XYLENES	45000	1100	230

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	99	52-149
TOLUENE-D8	129	65-135
BROMOFLUOROBENZENE	130	65-135

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:	01/18/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	01/18/00
Batch No.	: 00A061	Date Extracted:	01/21/00 21:56
Sample ID:	18609-2663	Date Analyzed:	01/21/00 21:56
Lab Samp ID:	A061-04	Dilution Factor:	200
Lab File ID:	RAP087	Matrix :	SOIL
Ext Btch ID:	VOA0402	% Moisture :	25.1
Calib. Ref.:	RAP078	Instrument ID :	T-002

PARAMETERS	RESULTS (ug/kg)	PRL (ug/kg)	MDL (ug/kg)
1,1,1-TRICHLOROETHANE	ND	1300	88
1,1,2,2-TETRACHLOROETHANE	ND	1300	88
1,1,2-TRICHLOROETHANE	ND	1300	62
1,1-DICHLOROETHANE	ND	1300	81
1,1-DICHLOROETHENE	ND	1300	140
1,2-DICHLOROETHANE	ND	1300	87
1,2-DICHLOROPROPANE	ND	1300	100
2-BUTANONE	ND	13000	1400
2-CHLOROETHYLVINYLETHER	ND	13000	45
2-HEXANONE	ND	13000	330
4-METHYL-2-PENTANONE	ND	13000	300
ACETONE	ND	13000	1100
BENZENE	ND	1300	66
BROMODICHLOROMETHANE	ND	1300	69
BROMOFORM	ND	1300	74
BROMOMETHANE	ND	1300	170
CARBON DISULFIDE	ND	1300	34
CARBON TETRACHLORIDE	ND	1300	210
CHLOROBENZENE	ND	1300	53
CHLOROETHANE	ND	1300	470
CHLOROFORM	ND	1300	110
CHLOROMETHANE	ND	1300	550
CIS-1,2-DICHLOROETHENE	ND	1300	78
CIS-1,3-DICHLOROPROPENE	ND	1300	59
DIBROMOCHLOROMETHANE	ND	1300	21
ETHYLBENZENE	220J	1300	100
MTBE	ND	2700	99
METHYLENE CHLORIDE	700JB	1300	110
STYRENE	ND	1300	120
TETRACHLOROETHENE	ND	1300	65
TOLUENE	ND	1300	84
TRANS-1,2-DICHLOROETHENE	ND	1300	77
TRANS-1,3-DICHLOROPROPENE	ND	1300	180
TRICHLOROETHENE	ND	1300	68
VINYL ACETATE	ND	13000	190
VINYL CHLORIDE	ND	1300	270
XYLENES	2700	1300	290

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	108	52-149
TOLUENE-D8	127	65-135
BROMOFLUOROBENZENE	126	65-135

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:	01/18/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	01/18/00
Batch No.	: 00A061	Date Extracted:	01/21/00 22:31
Sample ID:	18609-2664	Date Analyzed:	01/21/00 22:31
Lab Samp ID:	A061-05	Dilution Factor:	200
Lab File ID:	RAP088	Matrix :	SOIL
Ext Btch ID:	VOA0402	% Moisture :	14.0
Calib. Ref.:	RAP078	Instrument ID :	T-002

PARAMETERS	RESULTS (ug/kg)	PRL (ug/kg)	MDL (ug/kg)
1,1,1-TRICHLOROETHANE	ND	1200	77
1,1,2,2-TETRACHLOROETHANE	ND	1200	77
1,1,2-TRICHLOROETHANE	ND	1200	54
1,1-DICHLOROETHANE	ND	1200	70
1,1-DICHLOROETHENE	ND	1200	130
1,2-DICHLOROETHANE	ND	1200	76
1,2-DICHLOROPROPANE	ND	1200	87
2-BUTANONE	ND	12000	1200
2-CHLOROETHYLVINYLETHER	ND	12000	40
2-HEXANONE	ND	12000	290
4-METHYL-2-PENTANONE	ND	12000	260
ACETONE	ND	12000	950
BENZENE	ND	1200	58
BROMODICHLOROMETHANE	ND	1200	60
BROMOFORM	ND	1200	65
BROMOMETHANE	ND	1200	150
CARBON DISULFIDE	ND	1200	29
CARBON TETRACHLORIDE	ND	1200	180
CHLOROBENZENE	ND	1200	46
CHLOROETHANE	ND	1200	410
CHLOROFORM	ND	1200	99
CHLOROMETHANE	ND	1200	480
CIS-1,2-DICHLOROETHENE	ND	1200	68
CIS-1,3-DICHLOROPROPENE	ND	1200	52
DIBROMOCHLOROMETHANE	ND	1200	18
ETHYLBENZENE	520J	1200	91
MTBE	ND	2300	86
METHYLENE CHLORIDE	650JB	1200	95
STYRENE	ND	1200	100
TETRACHLOROETHENE	ND	1200	57
TOLUENE	ND	1200	73
TRANS-1,2-DICHLOROETHENE	ND	1200	67
TRANS-1,3-DICHLOROPROPENE	ND	1200	150
TRICHLOROETHENE	ND	1200	59
VINYL ACETATE	ND	12000	170
VINYL CHLORIDE	ND	1200	230
XYLENES	990J	1200	250

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	103	52-149
TOLUENE-D8	106	65-135
BROMOFLUOROBENZENE	117	65-135

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:	01/18/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	01/18/00
Batch No.	: 00A061	Date Extracted:	01/21/00 23:05
Sample ID:	18609-2665	Date Analyzed:	01/21/00 23:05
Lab Samp ID:	A061-06	Dilution Factor:	200
Lab File ID:	RAP089	Matrix :	SOIL
Ext Btch ID:	VOA0402	% Moisture :	7.6
Calib. Ref.:	RAP078	Instrument ID :	T-002

PARAMETERS	RESULTS (ug/kg)	PRL (ug/kg)	MDL (ug/kg)
1,1,1-TRICHLOROETHANE	ND	1100	72
1,1,2,2-TETRACHLOROETHANE	ND	1100	72
1,1,2-TRICHLOROETHANE	ND	1100	50
1,1-DICHLOROETHANE	ND	1100	66
1,1-DICHLOROETHENE	ND	1100	120
1,2-DICHLOROETHANE	ND	1100	71
1,2-DICHLOROPROPANE	ND	1100	81
2-BUTANONE	ND	11000	1100
2-CHLOROETHYLVINYLETHER	ND	11000	37
2-HEXANONE	ND	11000	270
4-METHYL-2-PENTANONE	ND	11000	250
ACETONE	ND	11000	890
BENZENE	ND	1100	54
BROMODICHLOROMETHANE	ND	1100	56
BROMOFORM	ND	1100	60
BROMOMETHANE	ND	1100	140
CARBON DISULFIDE	ND	1100	27
CARBON TETRACHLORIDE	ND	1100	170
CHLOROBENZENE	ND	1100	43
CHLOROETHANE	ND	1100	380
CHLOROFORM	ND	1100	92
CHLOROMETHANE	ND	1100	450
CIS-1,2-DICHLOROETHENE	ND	1100	63
CIS-1,3-DICHLOROPROPENE	ND	1100	48
DIBROMOCHLOROMETHANE	ND	1100	17
ETHYLBENZENE	370J	1100	85
MTBE	ND	2200	80
METHYLENE CHLORIDE	470JB	1100	89
STYRENE	ND	1100	95
TETRACHLOROETHENE	ND	1100	53
TOLUENE	ND	1100	68
TRANS-1,2-DICHLOROETHENE	ND	1100	62
TRANS-1,3-DICHLOROPROPENE	ND	1100	140
TRICHLOROETHENE	ND	1100	55
VINYL ACETATE	ND	11000	150
VINYL CHLORIDE	ND	1100	220
XYLENES	8200	1100	240

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	99	52-149
TOLUENE-D8	112	65-135
BROMOFLUOROBENZENE	133	65-135

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:	01/18/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	01/18/00
Batch No.	: 00A061	Date Extracted:	01/21/00 23:40
Sample ID:	18609-2666	Date Analyzed:	01/21/00 23:40
Lab Samp ID:	A061-07	Dilution Factor:	200
Lab File ID:	RAP090	Matrix :	SOIL
Ext Btch ID:	VOA0402	% Moisture :	13.9
Calib. Ref.:	RAP078	Instrument ID :	T-002

PARAMETERS	RESULTS (ug/kg)	PRL (ug/kg)	MDL (ug/kg)
1,1,1-TRICHLOROETHANE	ND	1200	77
1,1,2,2-TETRACHLOROETHANE	ND	1200	77
1,1,2-TRICHLOROETHANE	ND	1200	54
1,1-DICHLOROETHANE	ND	1200	70
1,1-DICHLOROETHENE	ND	1200	120
1,2-DICHLOROETHANE	ND	1200	76
1,2-DICHLOROPROPANE	ND	1200	87
2-BUTANONE	ND	12000	1200
2-CHLOROETHYLVINYLETHER	ND	12000	39
2-HEXANONE	ND	12000	290
4-METHYL-2-PENTANONE	ND	12000	260
ACETONE	ND	12000	950
BENZENE	ND	1200	58
BROMODICHLOROMETHANE	ND	1200	60
BROMOFORM	ND	1200	65
BROMOMETHANE	ND	1200	150
CARBON DISULFIDE	ND	1200	29
CARBON TETRACHLORIDE	ND	1200	180
CHLOROBENZENE	ND	1200	46
CHLOROETHANE	ND	1200	410
CHLOROFORM	ND	1200	98
CHLOROMETHANE	ND	1200	480
CIS-1,2-DICHLOROETHENE	ND	1200	68
CIS-1,3-DICHLOROPROPENE	ND	1200	52
DIBROMOCHLOROMETHANE	ND	1200	18
ETHYLBENZENE	650J	1200	91
MTBE	ND	2300	86
METHYLENE CHLORIDE	610JB	1200	95
STYRENE	ND	1200	100
TETRACHLOROETHENE	ND	1200	56
TOLUENE	ND	1200	73
TRANS-1,2-DICHLOROETHENE	ND	1200	67
TRANS-1,3-DICHLOROPROPENE	ND	1200	150
TRICHLOROETHENE	ND	1200	59
VINYL ACETATE	ND	12000	170
VINYL CHLORIDE	ND	1200	230
XYLENES	5100	1200	250

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	105	52-149
TOLUENE-D8	112	65-135
BROMOFLUOROBENZENE	122	65-135

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:	01/18/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	01/18/00
Lab No.	: 00A061A	Date Extracted:	01/22/00 00:14
Sample ID:	18609-2667	Date Analyzed:	01/22/00 00:14
Lab Samp ID:	A061-08	Dilution Factor:	200
Lab File ID:	RAP091	Matrix :	SOIL
Ext Btch ID:	VOA0402	% Moisture :	13.0
Calib. Ref.:	RAP078	Instrument ID :	T-002

PARAMETERS	RESULTS (ug/kg)	PRL (ug/kg)	MDL (ug/kg)
1,1,1-TRICHLOROETHANE	ND	1100	76
1,1,2,2-TETRACHLOROETHANE	ND	1100	76
1,1,2-TRICHLOROETHANE	ND	1100	54
1,1-DICHLOROETHANE	ND	1100	70
1,1-DICHLOROETHENE	ND	1100	120
1,2-DICHLOROETHANE	ND	1100	75
1,2-DICHLOROPROPANE	ND	1100	86
2-BUTANONE	ND	11000	1200
2-CHLOROETHYLVINYLETHER	ND	11000	39
2-HEXANONE	ND	11000	290
4-METHYL-2-PENTANONE	ND	11000	260
ACETONE	ND	11000	940
BENZENE	ND	1100	57
BROMODICHLOROMETHANE	ND	1100	60
BROMOFORM	ND	1100	64
BROMOMETHANE	ND	1100	150
CARBON DISULFIDE	ND	1100	29
CARBON TETRACHLORIDE	ND	1100	180
CHLOROBENZENE	ND	1100	45
CHLOROETHANE	ND	1100	410
CHLOROFORM	ND	1100	97
CHLOROMETHANE	ND	1100	470
[illegible],2-DICHLOROETHENE	ND	1100	67
C[illegible]1,3-DICHLOROPROPENE	ND	1100	51
DIBROMOCHLOROMETHANE	ND	1100	18
ETHYLBENZENE	300J	1100	90
MTBE	ND	2300	85
METHYLENE CHLORIDE	480JB	1100	94
STYRENE	ND	1100	100
TETRACHLOROETHENE	ND	1100	56
TOLUENE	ND	1100	72
TRANS-1,2-DICHLOROETHENE	ND	1100	66
TRANS-1,3-DICHLOROPROPENE	ND	1100	150
TRICHLOROETHENE	ND	1100	59
VINYL ACETATE	ND	11000	160
VINYL CHLORIDE	ND	1100	230
XYLENES	1800	1100	250

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	102	52-149
TOLUENE-D8	113	65-135
BROMOFLUOROBENZENE	129	65-135

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:	01/18/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	01/18/00
Batch No.	: 00A061	Date Extracted:	01/21/00 20:14
Sample ID:	18609-2668	Date Analyzed:	01/21/00 20:14
Lab Samp ID:	A061-09	Dilution Factor:	1
Lab File ID:	RAP084	Matrix :	WATER
Ext Btch ID:	VOA0402	% Moisture :	NA
Calib. Ref.:	RAP078	Instrument ID :	T-002

PARAMETERS	RESULTS (ug/L)	PRL (ug/L)	MDL (ug/L)
1,1,1-TRICHLOROETHANE	ND	5	1.1
1,1,2,2-TETRACHLOROETHANE	ND	5	.49
1,1,2-TRICHLOROETHANE	ND	5	.52
1,1-DICHLOROETHANE	ND	5	1.2
1,1-DICHLOROETHENE	ND	5	2
1,2-DICHLOROETHANE	ND	5	.58
1,2-DICHLOROPROPANE	ND	5	.53
2-BUTANONE	ND	50	7.9
2-CHLOROETHYLVINYLETHER	ND	50	.83
2-HEXANONE	ND	50	1
4-METHYL-2-PENTANONE	ND	50	1
ACETONE	ND	50	10
BENZENE	ND	5	.85
BROMODICHLOROMETHANE	ND	5	.33
BROMOFORM	ND	5	.29
BROMOMETHANE	ND	5	1.5
CARBON DISULFIDE	ND	5	1.3
CARBON TETRACHLORIDE	ND	5	1.3
CHLOROBENZENE	ND	5	.68
CHLOROETHANE	ND	5	2.9
CHLOROFORM	ND	5	.85
CHLOROMETHANE	ND	5	1.7
CIS-1,2-DICHLOROETHENE	ND	5	.97
CIS-1,3-DICHLOROPROPENE	ND	5	.47
DIBROMOCHLOROMETHANE	ND	5	.29
ETHYLBENZENE	ND	5	.72
MTBE	ND	10	.96
METHYLENE CHLORIDE	3JB	5	1.8
STYRENE	ND	5	.58
TETRACHLOROETHENE	ND	5	1.2
TOLUENE	ND	5	.92
TRANS-1,2-DICHLOROETHENE	ND	5	1.5
TRANS-1,3-DICHLOROPROPENE	ND	5	.45
TRICHLOROETHENE	ND	5	.9
VINYL ACETATE	ND	50	6.2
VINYL CHLORIDE	ND	5	1.7
XYLENES	ND	5	2.4

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	101	62-139
TOLUENE-D8	105	75-125
BROMOFLUOROBENZENE	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

Client	: IT CORPORATION	Date Collected:	01/18/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	01/18/00
Batch No.	: 00A061	Date Extracted:	01/24/00 20:34
Sample ID:	18609-2669	Date Analyzed:	01/24/00 20:34
Lab Samp ID:	A061-10	Dilution Factor:	500
Lab File ID:	RAP131	Matrix :	SOIL
Ext Btch ID:	VOA0502	% Moisture :	18.8
Calib. Ref.:	RAP121	Instrument ID :	T-002

PARAMETERS	RESULTS (ug/kg)	PRL (ug/kg)	MDL (ug/kg)
1,1,1-TRICHLOROETHANE	ND	3100	200
1,1,2,2-TETRACHLOROETHANE	ND	3100	200
1,1,2-TRICHLOROETHANE	ND	3100	140
1,1-DICHLOROETHANE	ND	3100	190
1,1-DICHLOROETHENE	ND	3100	330
1,2-DICHLOROETHANE	ND	3100	200
1,2-DICHLOROPROPANE	ND	3100	230
2-BUTANONE	ND	31000	3200
2-CHLOROETHYLVINYLETHER	ND	31000	100
2-HEXANONE	ND	31000	770
4-METHYL-2-PENTANONE	ND	31000	700
ACETONE	ND	31000	2500
BENZENE	ND	3100	150
BROMODICHLOROMETHANE	ND	3100	160
BROMOFORM	ND	3100	170
BROMOMETHANE	ND	3100	390
CARBON DISULFIDE	ND	3100	78
CARBON TETRACHLORIDE	ND	3100	490
CHLOROBENZENE	ND	3100	120
CHLOROETHANE	ND	3100	1100
CHLOROFORM	ND	3100	260
CHLOROMETHANE	ND	3100	1300
CIS-1,2-DICHLOROETHENE	ND	3100	180
CIS-1,3-DICHLOROPROPENE	ND	3100	140
DIBROMOCHLOROMETHANE	ND	3100	49
ETHYLBENZENE	2000J	3100	240
MTBE	ND	6200	230
METHYLENE CHLORIDE	1400JB	3100	250
STYRENE	ND	3100	270
TETRACHLOROETHENE	ND	3100	150
TOLUENE	ND	3100	190
TRANS-1,2-DICHLOROETHENE	ND	3100	180
TRANS-1,3-DICHLOROPROPENE	ND	3100	410
TRICHLOROETHENE	ND	3100	160
VINYL ACETATE	ND	31000	440
VINYL CHLORIDE	ND	3100	620
XYLENES	1200J	3100	670

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	98	52-149
TOLUENE-D8	105	65-135
BROMOFLUOROBENZENE	105	65-135

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:	01/18/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	01/18/00
Batch No.	: 00A061	Date Extracted:	01/22/00 01:22
Sample ID:	18609-2670	Date Analyzed:	01/22/00 01:22
Lab Samp ID:	A061-11	Dilution Factor:	200
Lab File ID:	RAP093	Matrix :	SOIL
Ext Btch ID:	VOA0402	% Moisture :	14.4
Calib. Ref.:	RAP078	Instrument ID :	T-002

PARAMETERS	RESULTS (ug/kg)	PRL (ug/kg)	MDL (ug/kg)
1,1,1-TRICHLOROETHANE	ND	1200	77
1,1,2,2-TETRACHLOROETHANE	ND	1200	77
1,1,2-TRICHLOROETHANE	ND	1200	54
1,1-DICHLOROETHANE	ND	1200	71
1,1-DICHLOROETHENE	ND	1200	130
1,2-DICHLOROETHANE	ND	1200	76
1,2-DICHLOROPROPANE	ND	1200	88
2-BUTANONE	ND	12000	1200
2-CHLOROETHYLVINYLETHER	ND	12000	40
2-HEXANONE	ND	12000	290
4-METHYL-2-PENTANONE	ND	12000	270
ACETONE	ND	12000	960
BENZENE	ND	1200	58
BROMODICHLOROMETHANE	ND	1200	61
BROMOFORM	ND	1200	65
BROMOMETHANE	ND	1200	150
CARBON DISULFIDE	ND	1200	29
CARBON TETRACHLORIDE	ND	1200	180
CHLOROBENZENE	ND	1200	46
CHLOROETHANE	ND	1200	410
CHLOROFORM	ND	1200	99
CHLOROMETHANE	ND	1200	480
CIS-1,2-DICHLOROETHENE	ND	1200	68
CIS-1,3-DICHLOROPROPENE	ND	1200	52
DIBROMOCHLOROMETHANE	ND	1200	18
ETHYLBENZENE	ND	1200	92
MTBE	ND	2300	87
METHYLENE CHLORIDE	480JB	1200	96
STYRENE	ND	1200	100
TETRACHLOROETHENE	ND	1200	57
TOLUENE	ND	1200	73
TRANS-1,2-DICHLOROETHENE	ND	1200	67
TRANS-1,3-DICHLOROPROPENE	ND	1200	160
TRICHLOROETHENE	ND	1200	60
VINYL ACETATE	ND	12000	170
VINYL CHLORIDE	ND	1200	240
XYLENES	ND	1200	250

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	102	52-149
TOLUENE-D8	103	65-135
BROMOFLUOROBENZENE	109	65-135

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:	01/21/00
Batch No.	: 00A061	Date Extracted:	01/21/00 19:05
Sample ID:	MBLK1W	Date Analyzed:	01/21/00 19:05
Lab Samp ID:	VOA0402Q	Dilution Factor:	1
Lab File ID:	RAP082	Matrix :	WATER
Ext Btch ID:	VOA0402	% Moisture :	NA
Calib. Ref.:	RAP078	Instrument ID :	T-002

PARAMETERS	RESULTS (ug/L)	PRL (ug/L)	MDL (ug/L)
1,1,1-TRICHLOROETHANE	ND	5	1.1
1,1,2,2-TETRACHLOROETHANE	ND	5	.49
1,1,2-TRICHLOROETHANE	ND	5	.52
1,1-DICHLOROETHANE	ND	5	1.2
1,1-DICHLOROETHENE	ND	5	2
1,2-DICHLOROETHANE	ND	5	.58
1,2-DICHLOROPROPANE	ND	5	.53
2-BUTANONE	ND	50	7.9
2-CHLOROETHYLVINYLETHER	ND	50	.83
2-HEXANONE	ND	50	1
4-METHYL-2-PENTANONE	ND	50	1
ACETONE	ND	50	10
BENZENE	ND	5	.85
BROMODICHLOROMETHANE	ND	5	.33
BROMOFORM	ND	5	.29
BROMOMETHANE	ND	5	1.5
CARBON DISULFIDE	ND	5	1.3
CARBON TETRACHLORIDE	ND	5	1.3
CHLOROBENZENE	ND	5	.68
CHLOROETHANE	ND	5	2.9
CHLOROFORM	ND	5	.85
CHLOROMETHANE	ND	5	1.7
CIS-1,2-DICHLOROETHENE	ND	5	.97
CIS-1,3-DICHLOROPROPENE	ND	5	.47
DIBROMOCHLOROMETHANE	ND	5	.29
ETHYLBENZENE	ND	5	.72
MTBE	ND	10	.96
METHYLENE CHLORIDE	1.9J	5	1.8
STYRENE	ND	5	.58
TETRACHLOROETHENE	ND	5	1.2
TOLUENE	ND	5	.92
TRANS-1,2-DICHLOROETHENE	ND	5	1.5
TRANS-1,3-DICHLOROPROPENE	ND	5	.45
TRICHLOROETHENE	ND	5	.9
VINYL ACETATE	ND	50	6.2
VINYL CHLORIDE	ND	5	1.7
XYLENES	ND	5	2.4

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	101	62-139
TOLUENE-D8	104	75-125
BROMOFLUOROBENZENE	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

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
BATCH NO.: 00A061
METHOD: METHOD 5030A/8260A

MATRIX:	WATER			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK1W				
LAB SAMP ID:	VOA0402Q	VOA0402L	VOA0402C		
LAB FILE ID:	RAP082	RAP079	RAP080		
DATE EXTRACTED:	01/21/0019:05	01/21/0017:22	01/21/0017:57	DATE COLLECTED:	NA
DATE ANALYZED:	01/21/0019:05	01/21/0017:22	01/21/0017:57	DATE RECEIVED:	01/21/00
PREP. BATCH:	VOA0402	VOA0402	VOA0402		
CALIB. REF:	RAP078	RAP078	RAP078		

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	20.3	101	20	20.2	101	1	75-125	20
Benzene	ND	20	20.7	103	20	20.3	101	2	75-125	20
Chlorobenzene	ND	20	20.1	101	20	19.8	99	2	75-125	20
Toluene	ND	20	20.5	103	20	20.1	101	2	74-125	20
Trichloroethene	ND	20	20.7	104	20	20.2	101	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	49.7	99	50	51.4	103	62-139
Toluene-d8	50	53	106	50	54.1	108	75-125
Bromofluorobenzene	50	53.6	107	50	53.3	107	75-125

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

Client	: IT CORPORATION	Date Collected:	NA
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	01/21/00
Batch No.	: 00A061	Date Extracted:	01/21/00 18:31
Sample ID:	MBLK1S	Date Analyzed:	01/21/00 18:31
Lab Samp ID:	VOA0402B	Dilution Factor:	1
Lab File ID:	RAP081	Matrix :	SOIL
Ext Btch ID:	VOA0402	% Moisture :	NA
Calib. Ref.:	RAP078	Instrument ID :	T-002

PARAMETERS	RESULTS (ug/kg)	PRL (ug/kg)	MDL (ug/kg)
1,1,1-TRICHLOROETHANE	ND	5	.33
1,1,2,2-TETRACHLOROETHANE	ND	5	.33
1,1,2-TRICHLOROETHANE	ND	5	.23
1,1-DICHLOROETHANE	ND	5	.3
1,1-DICHLOROETHENE	ND	5	.54
1,2-DICHLOROETHANE	ND	5	.33
1,2-DICHLOROPROPANE	ND	5	.38
2-BUTANONE	ND	50	5.1
2-CHLOROETHYLVINYLETHER	ND	50	.17
2-HEXANONE	ND	50	1.2
4-METHYL-2-PENTANONE	ND	50	1.1
ACETONE	ND	50	4.1
BENZENE	ND	5	.25
BROMODICHLOROMETHANE	ND	5	.26
BROMOFORM	ND	5	.28
BROMOMETHANE	ND	5	.64
CARBON DISULFIDE	ND	5	.13
CARBON TETRACHLORIDE	ND	5	.79
CHLOROBENZENE	ND	5	.2
CHLOROETHANE	ND	5	1.8
CHLOROFORM	ND	5	.42
CHLOROMETHANE	ND	5	2.1
CIS-1,2-DICHLOROETHENE	ND	5	.29
CIS-1,3-DICHLOROPROPENE	ND	5	.22
DIBROMOCHLOROMETHANE	ND	5	.079
ETHYLBENZENE	ND	5	.39
MTBE	ND	10	.37
METHYLENE CHLORIDE	1.9J	5	.41
STYRENE	ND	5	.44
TETRACHLOROETHENE	ND	5	.24
TOLUENE	ND	5	.31
TRANS-1,2-DICHLOROETHENE	ND	5	.29
TRANS-1,3-DICHLOROPROPENE	ND	5	.67
TRICHLOROETHENE	ND	5	.25
VINYL ACETATE	ND	50	.72
VINYL CHLORIDE	ND	5	1
XYLENES	ND	5	1.1

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	101	52-149
TOLUENE-D8	107	65-135
BROMOFLUOROBENZENE	107	65-135

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:	01/21/00
Batch No.	: 00A061A	Date Extracted:	01/21/00 18:31
Sample ID:	MBLK1S	Date Analyzed:	01/21/00 18:31
Lab Samp ID:	VOA0402B	Dilution Factor:	50
Lab File ID:	RAP081	Matrix :	SOIL
Ext Btch ID:	VOA0402	% Moisture :	NA
Calib. Ref.:	RAP078	Instrument ID :	T-002

PARAMETERS	RESULTS (ug/kg)	PRL (ug/kg)	MDL (ug/kg)
1,1,1-TRICHLOROETHANE	ND	250	17
1,1,2,2-TETRACHLOROETHANE	ND	250	17
1,1,2-TRICHLOROETHANE	ND	250	12
1,1-DICHLOROETHANE	ND	250	15
1,1-DICHLOROETHENE	ND	250	27
1,2-DICHLOROETHANE	ND	250	16
1,2-DICHLOROPROPANE	ND	250	19
2-BUTANONE	ND	2500	260
2-CHLOROETHYLVINYLETHER	ND	2500	8.5
2-HEXANONE	ND	2500	62
4-METHYL-2-PENTANONE	ND	2500	57
ACETONE	ND	2500	200
BENZENE	ND	250	12
BROMODICHLOROMETHANE	ND	250	13
BROMOFORM	ND	250	14
BROMOMETHANE	ND	250	32
CARBON DISULFIDE	ND	250	6.3
CARBON TETRACHLORIDE	ND	250	40
CHLOROBENZENE	ND	250	9.9
CHLOROETHANE	ND	250	89
CHLOROFORM	ND	250	21
CHLOROMETHANE	ND	250	100
CIS-1,2-DICHLOROETHENE	ND	250	15
CIS-1,3-DICHLOROPROPENE	ND	250	11
DIBROMOCHLOROMETHANE	ND	250	4
ETHYLBENZENE	ND	250	20
MTBE	ND	500	19
METHYLENE CHLORIDE	97J	250	20
STYRENE	ND	250	22
TETRACHLOROETHENE	ND	250	12
TOLUENE	ND	250	16
TRANS-1,2-DICHLOROETHENE	ND	250	14
TRANS-1,3-DICHLOROPROPENE	ND	250	33
TRICHLOROETHENE	ND	250	13
VINYL ACETATE	ND	2500	36
VINYL CHLORIDE	ND	250	50
XYLENES	ND	250	54

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	101	52-149
TOLUENE-D8	107	65-135
BROMOFLUOROBENZENE	107	65-135

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.: 00A061
METHOD: METHOD 5030A/8260A

MATRIX: SOIL % MOISTURE: NA

DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK1S				
LAB SAMP ID:	VOA0402B	VOA0402L	VOA0402C		
LAB FILE ID:	RAP081	RAP079	RAP080		
DATE EXTRACTED:	01/21/0018:31	01/21/0017:22	01/21/0017:57	DATE COLLECTED:	NA
DATE ANALYZED:	01/21/0018:31	01/21/0017:22	01/21/0017:57	DATE RECEIVED:	01/21/00
PREP. BATCH:	VOA0402	VOA0402	VOA0402		
CALIB. REF:	RAP078	RAP078	RAP078		

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
1,1-Dichloroethene	ND	20	20.3	101	20	20.2	101	1	65-135	30
Benzene	ND	20	20.7	103	20	20.3	101	2	65-135	30
Chlorobenzene	ND	20	20.1	101	20	19.8	99	2	65-135	30
Toluene	ND	20	20.5	103	20	20.1	101	2	64-135	30
Trichloroethene	ND	20	20.7	104	20	20.2	101	3	61-135	30

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT (%)
1,2-Dichlorethane-d4	50	49.7	99	50	51.4	103	52-149
[illegible]ene-d8	50	53	106	50	54.1	108	65-135
[illegible]ofluorobenzene	50	53.6	107	50	53.3	107	65-135

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

Client	: IT CORPORATION	Date Collected:	NA
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	01/24/00
Batch No.	: 00A061	Date Extracted:	01/24/00 16:25
Sample ID:	MBLK2S	Date Analyzed:	01/24/00 16:25
Lab Samp ID:	VOA0502B	Dilution Factor:	1
Lab File ID:	RAP124	Matrix :	SOIL
Ext Btch ID:	VOA0502	% Moisture :	NA
Calib. Ref.:	RAP121	Instrument ID :	T-002

PARAMETERS	RESULTS (ug/kg)	PRL (ug/kg)	MDL (ug/kg)
1,1,1-TRICHLOROETHANE	ND	5	.33
1,1,2,2-TETRACHLOROETHANE	ND	5	.33
1,1,2-TRICHLOROETHANE	ND	5	.23
1,1-DICHLOROETHANE	ND	5	.3
1,1-DICHLOROETHENE	ND	5	.54
1,2-DICHLOROETHANE	ND	5	.33
1,2-DICHLOROPROPANE	ND	5	.38
2-BUTANONE	ND	50	5.1
2-CHLOROETHYLVINYLETHER	ND	50	.17
2-HEXANONE	ND	50	1.2
4-METHYL-2-PENTANONE	ND	50	1.1
ACETONE	ND	50	4.1
BENZENE	ND	5	.25
BROMODICHLOROMETHANE	ND	5	.26
BROMOFORM	ND	5	.28
BROMOMETHANE	ND	5	.64
CARBON DISULFIDE	ND	5	.13
CARBON TETRACHLORIDE	ND	5	.79
CHLOROBENZENE	ND	5	.2
CHLOROETHANE	ND	5	1.8
CHLOROFORM	ND	5	.42
CHLOROMETHANE	ND	5	2.1
CIS-1,2-DICHLOROETHENE	ND	5	.29
CIS-1,3-DICHLOROPROPENE	ND	5	.22
DIBROMOCHLOROMETHANE	ND	5	.079
ETHYLBENZENE	ND	5	.39
MTBE	ND	10	.37
METHYLENE CHLORIDE	1.6J	5	.41
STYRENE	ND	5	.44
TETRACHLOROETHENE	ND	5	.24
TOLUENE	ND	5	.31
TRANS-1,2-DICHLOROETHENE	ND	5	.29
TRANS-1,3-DICHLOROPROPENE	ND	5	.67
TRICHLOROETHENE	ND	5	.25
VINYL ACETATE	ND	50	.72
VINYL CHLORIDE	ND	5	1
XYLENES	ND	5	1.1

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	101	52-149
TOLUENE-D8	104	65-135
BROMOFLUOROBENZENE	108	65-135

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.: 00A061
METHOD: METHOD 5030A/8260A

MATRIX:	SOIL			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK2S				
LAB SAMP ID:	VOA0502B	VOA0502L	VOA0502C		
LAB FILE ID:	RAP124	RAP122	RAP123		
DATE EXTRACTED:	01/24/0016:25	01/24/0015:17	01/24/0015:51	DATE COLLECTED:	NA
DATE ANALYZED:	01/24/0016:25	01/24/0015:17	01/24/0015:51	DATE RECEIVED:	01/24/00
PREP. BATCH:	VOA0502	VOA0502	VOA0502		
CALIB. REF:	RAP121	RAP121	RAP121		

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
1,1-Dichloroethene	ND	20	19.6	98	20	18.9	95	4	65-135	30
Benzene	ND	20	20.7	104	20	20.1	100	3	65-135	30
Chlorobenzene	ND	20	20.3	102	20	19.8	99	3	65-135	30
Toluene	ND	20	20.5	102	20	20	100	2	64-135	30
Trichloroethene	ND	20	20.5	102	20	19.7	99	4	61-135	30

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT (%)
1,2-Dichlorethane-d4	50	50.2	100	50	50.2	100	52-149
Toluene-d8	50	52.7	105	50	52.4	105	65-135
Bromofluorobenzene	50	53.5	107	50	52.9	106	65-135

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
BATCH NO.: 00A061
METHOD: METHOD 5030A/8260A

MATRIX:	SOIL			% MOISTURE:	14.4
DILUTION FACTOR:	200	200	200		
SAMPLE ID:	18609-2670				
LAB SAMP ID:	A061-11	A061-11M	A061-11S		
LAB FILE ID:	RAP093	RAP094	RAP095		
DATE EXTRACTED:	01/22/0001:22	01/22/0001:56	01/22/0002:31	DATE COLLECTED:	01/18/00
DATE ANALYZED:	01/22/0001:22	01/22/0001:56	01/22/0002:31	DATE RECEIVED:	01/18/00
PREP. BATCH:	VOA0402	VOA0402	VOA0402		
CALIB. REF:	RAP078	RAP078	RAP078		

ACCESSION:

PARAMETER	SMPL RSLT (ug/kg)	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	SPIKE AMT (ug/kg)	MSD RSLT (ug/kg)	MSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
1,1-Dichloroethene	ND	11700	10600	91	11700	11300	97	6	65-135	30
Benzene	ND	11700	11100	95	11700	11800	101	6	65-135	30
Chlorobenzene	ND	11700	10900	94	11700	11800	101	7	65-135	30
Toluene	ND	11700	10900	93	11700	11600	100	7	64-135	30
Trichloroethene	ND	11700	10900	93	11700	11800	101	8	61-135	30

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	SPIKE AMT (ug/kg)	MSD RSLT (ug/kg)	MSD % REC	QC LIMIT (%)
1,2-Dichlorethane-d4	11700	12800	109	11700	12600	108	52-149
Toluene-d8	11700	12500	107	11700	12500	107	65-135
Bromofluorobenzene	11700	12700	108	11700	12800	110	65-135

* : Out side of QC Limit

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
[illegible] NO.: 00A061A
METHOD: METHOD 5030A/8260A

MATRIX:	SOIL			% MOISTURE:	NA
DILUTION FACTOR:	50	1	1		
SAMPLE ID:	MBLK1S				
LAB SAMP ID:	VOA0402B	VOA0402L	VOA0402C		
LAB FILE ID:	RAP081	RAP079	RAP080		
DATE EXTRACTED:	01/21/0018:31	01/21/0017:22	01/21/0017:57	DATE COLLECTED:	NA
DATE ANALYZED:	01/21/0018:31	01/21/0017:22	01/21/0017:57	DATE RECEIVED:	01/21/00
PREP. BATCH:	VOA0402	VOA0402	VOA0402		
CALIB. REF:	RAP078	RAP078	RAP078		

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
1,1-Dichloroethene	ND	20	20.3	101	20	20.2	101	1	65-135	30
Benzene	ND	20	20.7	103	20	20.3	101	2	65-135	30
Chlorobenzene	ND	20	20.1	101	20	19.8	99	2	65-135	30
Toluene	ND	20	20.5	103	20	20.1	101	2	64-135	30
Trichloroethene	ND	20	20.7	104	20	20.2	101	3	61-135	30

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT (%)
1,2-Dichlorethane-d4	50	49.7	99	50	51.4	103	52-149
Toluene-d8	50	53	106	50	54.1	108	65-135
[illegible]fluorobenzene	50	53.6	107	50	53.3	107	65-135

MCAS El Toro
Volatiles - Data Qualification Summary - SDG 00A061

SDG	Sample	Compound	Flag	A or P	Reason
00A061	18609-2660 18609-2661 18609-2662 18609-2663 18609-2664 18609-2665 18609-2666 18609-2668 18609-2669 18609-2670	Acetone	J (all detects) R (all non-detects)	A	Continuing calibration (RRF)

MCAS El Toro
Volatiles - Laboratory Blank Data Qualification Summary - SDG 00A061

SDG	Sample	Compound TIC (RT in minutes)	Modified Final Concentration	A or P
00A061	18609-2660	Methylene chloride	5U ug/L	A
00A061	18609-2668	Methylene chloride	5U ug/L	A
00A061	18609-2662	Methylene chloride	1100U ug/Kg	A
00A061	18609-2663	Methylene chloride	1300U ug/Kg	A
00A061	18609-2664	Methylene chloride	1200U ug/Kg	A
00A061	18609-2665	Methylene chloride	1100U ug/Kg	A
00A061	18609-2666	Methylene chloride	1200U ug/Kg	A
00A061	18609-2670	Methylene chloride	1200U ug/Kg	A
00A061	18609-2661	Methylene chloride	2800U ug/Kg	A
00A061	18609-2669	Methylene chloride	3100U ug/Kg	A

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

Date: 02-18-2000
EMAX Batch No.: 00A061B

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 01/18/00 and requested the following analysis on 01/31/00. The data reported include :

Sample ID	Control #	Col Date	Matrix	Analysis
18609-2662	A061-01	01/18/00	Soil	SPLP BTEX
				SPLP TPH-Gas
18609-2665	A061-06	01/18/00	Soil	SPLP M8015
				SPLP TPH-Gas
18609-2667	A061-08	01/18/00	Soil	SPLP M8015
				SPLP TPH-Gas

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 SW1312/M8015
TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

Client : IT CORPORATION
Project : MCAS EL TORO/18609/D.O. 70
Batch No. : 00A061B

Matrix : WATER
Instrument ID : GCT019

SAMPLE ID	EMAX SAMPLE ID	RESULTS (mg/L)	SUR1 (%)	SUR2 (%)	DLF	MOIST	RL (mg/L)	MDL (mg/L)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1W	DSB004WB	ND	74	102	1	NA	.1	.038	02/06/0006:37	02/04/0018:00	TB02073A	TB02071A	DSB004W	NA	02/04/00
LCS1W	DSB004WL	5.04	85	94	1	NA	.1	.038	02/06/0007:14	02/04/0018:00	TB02074A	TB02071A	DSB004W	NA	02/04/00
LCD1W	DSB004WC	5.34	87	101	1	NA	.1	.038	02/06/0007:52	02/04/0018:00	TB02075A	TB02071A	DSB004W	NA	02/04/00
MBLK2W	TXA006SB	ND	76	97	1	NA	.1	.038	02/06/0009:43	02/04/0018:00	TB02078A	TB02071A	DSB004W	NA	02/04/00
18609-2665	A061-06	730*	DO	DO	100	NA	10	3.8	02/09/0002:11	02/04/0018:00	TB03061A	TB03057A	DSB004W	01/18/00	01/18/00
18609-2667	A061-08	2.2*	47**	94	1	NA	.1	.038	02/06/0022:55	02/04/0018:00	TB02099A	TB02095A	DSB004W	01/18/00	01/18/00
18609-2667RE	A061-08R	2.1*	45**	91	1	NA	.1	.038	02/09/0005:55	02/04/0018:00	TB03067A	TB03057A	DSB004W	01/18/00	01/18/00

PQL : Project Quantitation Limit
SURR1 : Bromobenzene 65-135 60-140
SURR2 : Hexacosane 60-140 55-150
H-C RANGE: C7 -C18 = JP5
C10-C24 = Diesel
C18-C34 = Motor Oil
C6 -C12 = Gas
DO : Diluted Out
* : Chromatograms show mixture of JP5 and Diesel, results were quantitated as Diesel.
** : Matrix interferance

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
BATCH NO.: 00A061B
METHOD: METHOD SW1312/M8015

MATRIX:	WATER			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK1W				
LAB SAMP ID:	DSB004WB	DSB004WL	DSB004WC		
LAB FILE ID:	TB02073A	TB02074A	TB02075A		
DATE EXTRACTED:	02/04/0018:00	02/04/0018:00	02/04/0018:00	DATE COLLECTED:	NA
DATE ANALYZED:	02/06/0006:37	02/06/0007:14	02/06/0007:52	DATE RECEIVED:	02/04/00
PREP. BATCH:	DSB004W	DSB004W	DSB004W		
CALIB. REF:	TB02071A	TB02071A	TB02071A		

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	5.04	101	5	5.34	107	6	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	.848	85	1	.87	87	65-135
Hexacosane	1	.938	94	1	1.01	101	60-140

METHOD SW1312/M8015

TOTAL PETROLEUM HYDROCARBONS BY PURGE & TRAP

Client : IT CORPORATION
Project : MCAS EL TORO/18609/D.O. 70
Batch No. : 00A061B

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	VAA4839B	ND	80	1	NA	.1	.018	02/02/0018:52	02/02/0018:52	EA16092A	EA16082A	VAA4839	NA	02/02/00
LCS1W	VAA4839L	1.14	94	1	NA	.1	.018	02/02/0020:36	02/02/0020:36	EA16095A	EA16082A	VAA4839	NA	02/02/00
LCD1W	VAA4839C	1.09	90	1	NA	.1	.018	02/02/0021:11	02/02/0021:11	EA16096A	EA16082A	VAA4839	NA	02/02/00
MBLK2W	TVB001SB	ND	80	1	NA	.1	.018	02/03/0003:30	02/03/0003:30	EA16107A	EA16106A	VAA4839	NA	02/03/00
MBLK3W	VAB0139B	ND	73	1	NA	.1	.018	02/03/0015:05	02/03/0015:05	EB01004A	EB01003A	VAB0139	NA	02/03/00
LCS3W	VAB0139L	.88	84	1	NA	.1	.018	02/03/0015:40	02/03/0015:40	EB01005A	EB01003A	VAB0139	NA	02/03/00
LCD3W	VAB0139C	.888	87	1	NA	.1	.018	02/03/0016:15	02/03/0016:15	EB01006A	EB01003A	VAB0139	NA	02/03/00
18609-2662	A061-03	32	100	10	NA	1	.18	02/03/0022:02	02/03/0022:02	EB01016A	EB01015A	VAB0139	01/18/00	01/18/00
18609-2665	A061-06	3.5	85	5	NA	.5	.09	02/03/0004:39	02/03/0004:39	EA16109A	EA16106A	VAA4839	01/18/00	01/18/00
18609-2667	A061-08	2.4	83	5	NA	.5	.09	02/03/0005:13	02/03/0005:13	EA16110A	EA16106A	VAA4839	01/18/00	01/18/00

SURR : Bromofluorobenzene
PRL : Reporting Limit
E : Value exceed the upper level of the initial calibration
D : Value from dilution
Extraction Date: 02/02/00 12:00

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
BATCH NO.: 00A061B
METHOD: METHOD SW1312/M8015

MATRIX:	WATER			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK1W				
LAB SAMP ID:	VAA4839B	VAA4839L	VAA4839C		
LAB FILE ID:	EA16092A	EA16095A	EA16096A		
DATE EXTRACTED:	02/02/0018:52	02/02/0020:36	02/02/0021:11	DATE COLLECTED:	NA
DATE ANALYZED:	02/02/0018:52	02/02/0020:36	02/02/0021:11	DATE RECEIVED:	02/02/00
PREP. BATCH:	VAA4839	VAA4839	VAA4839		
CALIB. REF:	EA16082A	EA16082A	EA16082A		

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	1.1	1.14	104	1.1	1.09	100	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	.05	.0469	94	.05	.0448	90	65-135

4009

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
BATCH NO.: 00A061B
METHOD: METHOD SW1312/M8015

MATRIX:	WATER			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK3W				
LAB SAMP ID:	VAB0139B	VAB0139L	VAB0139C		
LAB FILE ID:	EB01004A	EB01005A	EB01006A		
DATE EXTRACTED:	02/03/0015:05	02/03/0015:40	02/03/0016:15	DATE COLLECTED:	NA
DATE ANALYZED:	02/03/0015:05	02/03/0015:40	02/03/0016:15	DATE RECEIVED:	02/03/00
PREP. BATCH:	VAB0139	VAB0139	VAB0139		
CALIB. REF:	EB01003A	EB01003A	EB01003A		

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	1.1	.88	80	1.1	.888	81	1	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	.05	.0422	84	.05	.0437	87	65-135

MCAS El Toro
Volatiles - Data Qualification Summary - SDG 00A061A

SDG	Sample	Compound	Flag	A or P	Reason
00A061A	18609-2667	Acetone	J (all detects) R (all non-detects)	A	Continuing calibration (RRF)

MCAS El Toro
Volatiles - Laboratory Blank Data Qualification Summary - SDG 00A061A

SDG	Sample	Compound TIC (RT in minutes)	Modified Final Concentration	A or P
00A061A	18609-2667	Methylene chloride	1100U ug/Kg	A

the igroup

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

CHAIN-OF-CUSTODY RECORD

Do 7 PROJECT DATA MANAGER'S COPY

Tank Farm 398

A 10650

FORM 0019 REV. 9-99

LAB COORDINATOR	LAB COORDINATOR'S PHONE	LAB COORDINATOR'S FAX	LABORATORY SERVICE ID	LABORATORY CONTACT	MAIL REPORT (COMPANY NAME)
Concepcion	949-660 7550	949 475 5433	DOA073	E MAX	IT GROUP
PROJECT NAME: EL TORO DO #70	PROJECT LOCATION: MCAS, EL TORO	PROJECT NUMBER: 18609	LABORATORY PHONE: 3061888889	LABORATORY FAX	RECIPIENT NAME: DWAYNE ISHIDA
PROJECT CONTACT: J. Concepcion	PROJECT PHONE NUMBER: 949 451 1667	PROJECT FAX: 949 475 5433	LABORATORY ADDRESS: 630 Maple		ADDRESS: 347 Michelson Dr. Suite 200
PROJECT ADDRESS: —	CITY, STATE AND ZIP CODE	CLIENT: SW DIV	CITY, STATE AND ZIP CODE: TORRANCE, CA		CITY, STATE AND ZIP CODE: IRVINE, CA 92612
PROJECT MANAGER: J. Sedlak	PROJECT MANAGER'S PHONE: 949 660 5446	PROJECT MANAGER'S FAX			

1" Analyze X on Cap EPA 1312 (hold)

Sample Identifier	Matrix	Date (2000)	Time	Preserved	# of Cont.	QC Level	T.A.T.	TPH-Diesel	TPH-JP-5	TPH-Gas	8260 BTEX	EPA 1312 (hold)				Comments
18609-2671	SW	1-19	0715	HCl	2	3	5 Days				X					
18609-2672	S	1-19	0730	None	1	3	5 Days	X	X	X	X	X				
18609-2673	S	1-19	0847	None	1	3		X	X	X	X	X				
18609-2674	S	1-19	0851	None	1	4		X	X	X	X	X				
18609-2675	S	1-19	0914	None	1	3		X	X	X	X	X				
18609-2676	S	1-19	0938	None	1	3		X	X	X	X	X				
18609-2677	S	1-19	0952	None	1	3		X	X	X	X	X				SPLP JP5/diesel/Gas/BTEX
18609-2678	S	1-19	1010	None	1	3		X	X	X	X	X				SPLP JP5/diesel/Gas/BTEX
18609-2679	W	1-19	1025	HCl	8	3		X	X	X	X					
18609-2680	S	1-19	1510	None	1	3	5 Days	X	X	X	X	X				

SAMPLES COLLECTED BY	COURIER AND AIR BILL NUMBER	COOLER TEMPERATURE UPON RECEIPT

RELINQUISHED BY	RECEIVED BY	DATE	TIME	SAMPLE'S CONDITION UPON RECEIPT
[signature]	[signature]	1/19/2000	1630	

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

DO70
Tank Farm 398
MCAS, EL TORO

Sample Point Location	Sample Type G	C	F	QC
(1) Trip Blank	X		X	X
(2) CB 398-10 from 99.5 - 100	X		X	
(3) CB 398-10 from 139.5 - 140	X		X	
(4) CB 398-10 from 140 - 140.5 (DUP)	X		X	X
(5) CB 398-10 from 159.5 - 160	X		X	
(6) CB 398-10 from 169.5 - 170	X		X	
(7) CB 398-10 from 180 - 180.5	X		X	
(8) CB 398-10 from 188 - 188.5'	X		X	
(9) EQUIPMENT RINSATE	X			X
(10) CB 398-03 49.5 - 50'	X		X	

Comments

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

(GW 4752) 4641

I

45391

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

Date: 02-10-2000
EMAX Batch No.: 00A073

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 01/19/00. The data reported include :

Sample ID	Control #	Col Date	Matrix	Analysis
18609-2671	A073-01	01/19/00	Water	Volatile Organics by GC/MS
18609-2672	A073-02	01/19/00	Soil	Volatile Organics by GC/MS
				Modified 8015 by Extraction
				Modified 8015 by Purge & Trap
18609-2673	A073-03	01/19/00	Soil	Modified 8015 by Purge & Trap
				Modified 8015 by Extraction
				Volatile Organics by GC/MS
18609-2674	A073-04	01/19/00	Soil	Volatile Organics by GC/MS
				Modified 8015 by Extraction
				Modified 8015 by Purge & Trap
18609-2675	A073-05	01/19/00	Soil	Modified 8015 by Purge & Trap
				Modified 8015 by Extraction
				Volatile Organics by GC/MS
18609-2676	A073-06	01/19/00	Soil	Volatile Organics by GC/MS
				Modified 8015 by Extraction
				Modified 8015 by Purge & Trap
18609-2677	A073-07	01/19/00	Soil	Modified 8015 by Purge & Trap
				Modified 8015 by Extraction
				Volatile Organics by GC/MS

Sample ID	Control #	Col Date	Matrix	Analysis
18609-2678	A073-08	01/19/00	Soil	Volatile Organics by GC/MS
				Modified 8015 by Extraction
				Modified 8015 by Purge & Trap
18609-2679	A073-09	01/19/00	Water	Modified 8015 by Purge & Trap
				Modified 8015 by Extraction
				Volatile Organics by GC/MS
18609-2680	A073-10	01/19/00	Soil	Modified 8015 by Extraction
				Modified 8015 by Purge & Trap
				Volatile Organics by GC/MS

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

Matrix : SOIL
Instrument ID : GCT019

Client : IT CORPORATION
Project : MCAS EL TORO/18609/D.O. 70
Batch No. : 00A073

SAMPLE ID	EMAX SAMPLE ID	RESULTS (mg/kg)	SUR1 (%)	SUR2 (%)	DLF	MOIST	RL (mg/kg)	MDL (mg/kg)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1S	DSA033SB	ND	118	67	1	NA	10	2.1	01/29/0016:33	01/20/0014:00	TA13010A	TA13002A	DSA033S	NA	01/20/00
LCS1S	DSA033SL	443	118	63	1	NA	10	2.1	01/29/0015:56	01/20/0014:00	TA13009A	TA13002A	DSA033S	NA	01/20/00
18609-2672	A073-02	4200**	DO	DO	5	6.8	53.6	11.2	01/29/0017:11	01/20/0014:00	TA13011A	TA13002A	DSA033S	01/19/00	01/19/00
18609-2673	A073-03	2700**	DO	DO	2	7.1	21.5	4.51	01/29/0017:48	01/20/0014:00	TA13012A	TA13002A	DSA033S	01/19/00	01/19/00
18609-2674	A073-04	4400**	DO	DO	5	10.4	55.8	11.7	01/29/0018:25	01/20/0014:00	TA13013A	TA13002A	DSA033S	01/19/00	01/19/00
18609-2675	A073-05	6300**	DO	DO	10	20.5	126	26.4	01/29/0020:16	01/20/0014:00	TA13016A	TA13014A	DSA033S	01/19/00	01/19/00
18609-2676	A073-06	6700	DO	DO	5	4.2	52.2	10.9	01/29/0020:53	01/20/0014:00	TA13017A	TA13014A	DSA033S	01/19/00	01/19/00
18609-2677	A073-07	11000**	DO	DO	20	10.0	222	46.6	01/29/0021:30	01/20/0014:00	TA13018A	TA13014A	DSA033S	01/19/00	01/19/00
18609-2678	A073-08	2500**	DO	DO	5	17.4	60.5	12.7	01/29/0022:07	01/20/0014:00	TA13019A	TA13014A	DSA033S	01/19/00	01/19/00
18609-2680	A073-10	5400**	DO	DO	5	13.7	57.9	12.1	01/29/0022:44	01/20/0014:00	TA13020A	TA13014A	DSA033S	01/19/00	01/19/00

QC LIMIT : (SOIL) 60-140 55-150
QC LIMIT : (WATER) 65-135 60-145
SURR1 : Bromobenzene
SURR2 : Hexacosane
RL : Reporting Limit
* : Chromatogram shows JP5 pattern
** : Chromatogram shows a mixture of JP5 and Diesel pattern, results were calculated as diesel.

Revised Report

5004

METHOD M8015
TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

Client : IT CORPORATION
Project : MCAS EL TORO/18609/D.O. 70
Batch No. : 00A073

Matrix : WATER
Instrument ID : GCT019

SAMPLE ID	EMAX SAMPLE ID	RESULTS (mg/L)	SUR1 (%)	SUR2 (%)	DLF	MOIST	RL (mg/L)	MDL (mg/L)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1W	DSA032WB	ND	69	82	1	NA	.1	.038	01/29/0004:10	01/20/0015:00	TA12065A	TA12062A	DSA032W	NA	01/20/00
LCS1W	DSA032WL	5.08	75	83	1	NA	.1	.038	01/28/0010:49	01/20/0015:00	TA12037A	TA12026A	DSA032W	NA	01/20/00
LCD1W	DSA032WC	5.05	72	80	1	NA	.1	.038	01/28/0013:18	01/20/0015:00	TA12041A	TA12038A	DSA032W	NA	01/20/00
18609-2679	A073-09	ND	77	83	.96	NA	.096	.0365	01/28/0017:02	01/20/0015:00	TA12047A	TA12038A	DSA032W	01/19/00	01/19/00

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 ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
BATCH NO.: 00A073
METHOD: METHOD M8015

==========

MATRIX:	SOIL		% MOISTURE:	NA
DILUTION FACTOR:	1	1		
SAMPLE ID:	MBLK1S			
LAB SAMP ID:	DSA033SB	DSA033SL		
LAB FILE ID:	TA13010A	TA13009A		
DATE EXTRACTED:	01/20/0014:00	01/20/0014:00	DATE COLLECTED:	NA
DATE ANALYZED:	01/29/0016:33	01/29/0015:56	DATE RECEIVED:	01/20/00
PREP. BATCH:	DSA033S	DSA033S		
CALIB. REF:	TA13002A	TA13002A		

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	QC LIMIT (%)
Diesel	ND	500	443	89	51-153

==========

SURROGATE PARAMETER	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	QC LIMIT (%)
Bromobenzene	100	118	118	60-140
Hexacosane	100	62.7	63	55-150

5016

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
BATCH NO.: 00A073
METHOD: METHOD M8015

MATRIX:	WATER			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK1W				
LAB SAMP ID:	DSA032WB	DSA032WL	DSA032WC		
LAB FILE ID:	TA12065A	TA12037A	TA12041A		
DATE EXTRACTED:	01/20/0015:00	01/20/0015:00	01/20/0015:00	DATE COLLECTED:	NA
DATE ANALYZED:	01/29/0004:10	01/28/0010:49	01/28/0013:18	DATE RECEIVED:	01/20/00
PREP. BATCH:	DSA032W	DSA032W	DSA032W		
CALIB. REF:	TA12062A	TA12026A	TA12038A		

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	5.08	102	5	5.05	101	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	.75	75	1	.718	72	65-135
Hexacosane	1	.826	83	1	.8	80	60-145

5017

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

Client : IT CORPORATION
Project : MCAS EL TORO/18609/D.O. 70
Batch No. : 00A073

Matrix : SOIL
Instrument ID : GCT039

SAMPLE ID	EMAX SAMPLE ID	RESULTS (mg/kg)	SURR (%)	DLF	MOIST	RL (mg/kg)	MDL (mg/kg)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1S	VMA2939B	ND	74	10	NA	10	.88	01/21/0018:58	01/21/0018:58	EA12009A	EA12003A	VMA2939	NA	01/21/00
LCS1S	VMA2939L	49.9	77	10	NA	10	.88	01/21/0019:32	01/21/0019:32	EA12010A	EA12003A	VMA2939	NA	01/21/00
LCD1S	VMA2939C	48.5	83	10	NA	10	.88	01/21/0020:07	01/21/0020:07	EA12011A	EA12003A	VMA2939	NA	01/21/00
MBLK2S	VMA3439B	ND	80	10	NA	10	.88	01/25/0013:30	01/25/0013:30	EA13045A	EA13039A	VMA3439	NA	01/25/00
LCS2S	VMA3439L	51.3	86	10	NA	10	.88	01/25/0014:04	01/25/0014:04	EA13046A	EA13039A	VMA3439	NA	01/25/00
LCD2S	VMA3439C	42.8	78	10	NA	10	.88	01/25/0014:39	01/25/0014:39	EA13047A	EA13039A	VMA3439	NA	01/25/00
18609-2672	A073-02	3500**	85	500	6.8	536	47.2	01/22/0002:26	01/22/0002:26	EA12022A	EA12015A	VMA2939	01/19/00	01/19/00
18609-2673	A073-03	1400**	100	100	7.1	108	9.47	01/25/0021:48	01/25/0021:48	EA13059A	EA13051A	VMA3439	01/19/00	01/19/00
18609-2674	A073-04	3900**	93	500	10.4	558	49.1	01/22/0001:51	01/22/0001:51	EA12021A	EA12015A	VMA2939	01/19/00	01/19/00
18609-2675	A073-05	5800**	81	1000	20.5	1260	111	01/22/0003:35	01/22/0003:35	EA12024A	EA12015A	VMA2939	01/19/00	01/19/00
18609-2676	A073-06	3800**	75	500	4.2	522	45.9	01/22/0004:10	01/22/0004:10	EA12025A	EA12015A	VMA2939	01/19/00	01/19/00
18609-2677	A073-07	9000**	101	1000	10.0	1110	97.8	01/22/0005:54	01/22/0005:54	EA12028A	EA12027A	VMA2939	01/19/00	01/19/00
18609-2678	A073-08	2400**	105	100	17.4	121	10.7	01/25/0022:22	01/25/0022:22	EA13060A	EA13051A	VMA3439	01/19/00	01/19/00
18609-2680	A073-10	5100**	80	500	13.7	579	51	01/22/0006:29	01/22/0006:29	EA12029A	EA12027A	VMA2939	01/19/00	01/19/00

SURR : Bromofluorobenzene
PRL : Reporting Limit
E : Value exceed the upper level of the initial calibration
D : Value from dilution
** : Presence of HC heavier than gasoline.

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

Client : IT CORPORATION
Project : MCAS EL TORO/18609/D.O. 70
Batch No. : 00A073

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	VAA3039B	ND	86	1	NA	.1	.018	01/22/0016:20	01/22/0016:20	EA12046A	EA12045A	VAA3039	NA	01/22/00
LCS1W	VAA3039L	1.38	104	1	NA	.1	.018	01/22/0016:55	01/22/0016:55	EA12047A	EA12045A	VAA3039	NA	01/22/00
LCD1W	VAA3039C	1.38	105	1	NA	.1	.018	01/22/0017:29	01/22/0017:29	EA12048A	EA12045A	VAA3039	NA	01/22/00
18609-2679	A073-09	ND	90	1	NA	.1	.018	01/22/0018:04	01/22/0018:04	EA12049A	EA12045A	VAA3039	01/19/00	01/19/00

SURR : Bromofluorobenzene
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
[illegible] NO.: 00A073
[illegible]OD: METHOD 5030B/M8015

MATRIX:	SOIL			% MOISTURE:	NA
DILUTION FACTOR:	10	10	10		
SAMPLE ID:	MBLK1S				
LAB SAMP ID:	VMA2939B	VMA2939L	VMA2939C		
LAB FILE ID:	EA12009A	EA12010A	EA12011A		
DATE EXTRACTED:	01/21/0018:58	01/21/0019:32	01/21/0020:07	DATE COLLECTED:	NA
DATE ANALYZED:	01/21/0018:58	01/21/0019:32	01/21/0020:07	DATE RECEIVED:	01/21/00
PREP. BATCH:	VMA2939	VMA2939	VMA2939		
CALIB. REF:	EA12003A	EA12003A	EA12003A		

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
Gasoline	ND	55	49.9	91	55	48.5	88	3	57-146	50

SURROGATE PARAMETER	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	QC LIMIT (%)
Bromofluorobenzene	2.5	1.94	77	2.5	2.08	83	60-140

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
BATCH NO.: 00A073
METHOD: METHOD 5030B/M8015

MATRIX:	SOIL			% MOISTURE:	NA
DILUTION FACTOR:	10	10	10		
SAMPLE ID:	MBLK2S				
LAB SAMP ID:	VMA3439B	VMA3439L	VMA3439C		
LAB FILE ID:	EA13045A	EA13046A	EA13047A		
DATE EXTRACTED:	01/25/0013:30	01/25/0014:04	01/25/0014:39	DATE COLLECTED:	NA
DATE ANALYZED:	01/25/0013:30	01/25/0014:04	01/25/0014:39	DATE RECEIVED:	01/25/00
PREP. BATCH:	VMA3439	VMA3439	VMA3439		
CALIB. REF:	EA13039A	EA13039A	EA13039A		

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
Gasoline	ND	55	51.3	93	55	42.8	78	18	57-146	50

SURROGATE PARAMETER	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	QC LIMIT (%)
Bromofluorobenzene	2.5	2.16	86	2.5	1.95	78	60-140

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
BATCH NO.: 00A073
METHOD: METHOD 5030B/M8015

MATRIX:	WATER			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK1W				
LAB SAMP ID:	VAA3039B	VAA3039L	VAA3039C		
LAB FILE ID:	EA12046A	EA12047A	EA12048A		
DATE EXTRACTED:	01/22/0016:20	01/22/0016:55	01/22/0017:29	DATE COLLECTED:	NA
DATE ANALYZED:	01/22/0016:20	01/22/0016:55	01/22/0017:29	DATE RECEIVED:	01/22/00
PREP. BATCH:	VAA3039	VAA3039	VAA3039		
CALIB. REF:	EA12045A	EA12045A	EA12045A		

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	1.1	1.38	125	1.1	1.38	125	0	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	.05	.0521	104	.05	.0526	105	65-135

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

Client	: IT CORPORATION	Date Collected:	01/19/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	01/19/00
Batch No.	: 00A073	Date Extracted:	01/24/00 17:42
Sample ID:	18609-2671	Date Analyzed:	01/24/00 17:42
Lab Samp ID:	A073-01	Dilution Factor:	1
Lab File ID:	RAP126	Matrix :	WATER
Ext Btch ID:	VOA0502	% Moisture :	NA
Calib. Ref.:	RAP121	Instrument ID :	T-002

PARAMETERS	RESULTS (ug/L)	PRL (ug/L)	MDL (ug/L)
1,1,1-TRICHLOROETHANE	ND	5	1.1
1,1,2,2-TETRACHLOROETHANE	ND	5	.49
1,1,2-TRICHLOROETHANE	ND	5	.52
1,1-DICHLOROETHANE	ND	5	1.2
1,1-DICHLOROETHENE	ND	5	2
1,2-DICHLOROETHANE	ND	5	.58
1,2-DICHLOROPROPANE	ND	5	.53
2-BUTANONE	ND	50	7.9
2-CHLOROETHYLVINYLETHER	ND	50	.83
2-HEXANONE	ND	50	1
4-METHYL-2-PENTANONE	ND	50	1
ACETONE	ND	50	10
BENZENE	ND	5	.85
BROMODICHLOROMETHANE	ND	5	.33
BROMOFORM	ND	5	.29
BROMOMETHANE	ND	5	1.5
CARBON DISULFIDE	ND	5	1.3
CARBON TETRACHLORIDE	ND	5	1.3
CHLOROBENZENE	ND	5	.68
CHLOROETHANE	ND	5	2.9
CHLOROFORM	ND	5	.85
CHLOROMETHANE	ND	5	1.7
CIS-1,2-DICHLOROETHENE	ND	5	.97
CIS-1,3-DICHLOROPROPENE	ND	5	.47
DIBROMOCHLOROMETHANE	ND	5	.29
ETHYLBENZENE	ND	5	.72
MTBE	ND	10	.96
METHYLENE CHLORIDE	2.5J	5	1.8
STYRENE	ND	5	.58
TETRACHLOROETHENE	ND	5	1.2
TOLUENE	ND	5	.92
TRANS-1,2-DICHLOROETHENE	ND	5	1.5
TRANS-1,3-DICHLOROPROPENE	ND	5	.45
TRICHLOROETHENE	ND	5	.9
VINYL ACETATE	ND	50	6.2
VINYL CHLORIDE	ND	5	1.7
XYLENES	ND	5	2.4

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	96	62-139
TOLUENE-D8	103	75-125
BROMOFLUOROBENZENE	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:	01/19/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	01/19/00
Batch No.	: 00A073	Date Extracted:	01/24/00 21:08
Sample ID:	18609-2672	Date Analyzed:	01/24/00 21:08
Lab Samp ID:	A073-02	Dilution Factor:	500
Lab File ID:	RAP132	Matrix :	SOIL
Ext Btch ID:	VOA0502	% Moisture :	6.8
Calib. Ref.:	RAP121	Instrument ID :	T-002

PARAMETERS	RESULTS (ug/kg)	PRL (ug/kg)	MDL (ug/kg)
1,1,1-TRICHLOROETHANE	ND	2700	180
1,1,2,2-TETRACHLOROETHANE	ND	2700	180
1,1,2-TRICHLOROETHANE	ND	2700	120
1,1-DICHLOROETHANE	ND	2700	160
1,1-DICHLOROETHENE	ND	2700	290
1,2-DICHLOROETHANE	ND	2700	170
1,2-DICHLOROPROPANE	ND	2700	200
2-BUTANONE	ND	27000	2700
2-CHLOROETHYLVINYLETHER	ND	27000	91
2-HEXANONE	ND	27000	670
4-METHYL-2-PENTANONE	ND	27000	610
ACETONE	ND	27000	2200
BENZENE	ND	2700	130
BROMODICHLOROMETHANE	ND	2700	140
BROMOFORM	ND	2700	150
BROMOMETHANE	ND	2700	340
CARBON DISULFIDE	ND	2700	68
CARBON TETRACHLORIDE	ND	2700	420
CHLOROBENZENE	ND	2700	110
CHLOROETHANE	ND	2700	950
CHLOROFORM	ND	2700	230
CHLOROMETHANE	ND	2700	1100
CIS-1,2-DICHLOROETHENE	ND	2700	160
CIS-1,3-DICHLOROPROPENE	ND	2700	120
DIBROMOCHLOROMETHANE	ND	2700	42
ETHYLBENZENE	ND	2700	210
MTBE	ND	5400	200
METHYLENE CHLORIDE	1300JB	2700	220
STYRENE	ND	2700	230
TETRACHLOROETHENE	ND	2700	130
TOLUENE	ND	2700	170
TRANS-1,2-DICHLOROETHENE	ND	2700	150
TRANS-1,3-DICHLOROPROPENE	ND	2700	360
TRICHLOROETHENE	ND	2700	140
VINYL ACETATE	ND	27000	380
VINYL CHLORIDE	ND	2700	540
XYLENES	770J	2700	580

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	101	52-149
TOLUENE-D8	104	65-135
BROMOFLUOROBENZENE	104	65-135

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
Methanol Extraction date: 01/24/00 13:15

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

Client	: IT CORPORATION	Date Collected:	01/19/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	01/19/00
Batch No.	: 00A073	Date Extracted:	01/24/00 21:42
Sample ID:	18609-2673	Date Analyzed:	01/24/00 21:42
Lab Samp ID:	A073-03	Dilution Factor:	500
Lab File ID:	RAP133	Matrix :	SOIL
Ext Btch ID:	VOA0502	% Moisture :	7.1
Calib. Ref.:	RAP121	Instrument ID :	T-002

PARAMETERS	RESULTS (ug/kg)	PRL (ug/kg)	MDL (ug/kg)
1,1,1-TRICHLOROETHANE	ND	2700	180
1,1,2,2-TETRACHLOROETHANE	ND	2700	180
1,1,2-TRICHLOROETHANE	ND	2700	130
1,1-DICHLOROETHANE	ND	2700	160
1,1-DICHLOROETHENE	ND	2700	290
1,2-DICHLOROETHANE	ND	2700	180
1,2-DICHLOROPROPANE	ND	2700	200
2-BUTANONE	ND	27000	2800
2-CHLOROETHYLVINYLETHER	ND	27000	91
2-HEXANONE	ND	27000	670
4-METHYL-2-PENTANONE	ND	27000	610
ACETONE	ND	27000	2200
BENZENE	ND	2700	130
BROMODICHLOROMETHANE	ND	2700	140
BROMOFORM	ND	2700	150
BROMOMETHANE	ND	2700	340
CARBON DISULFIDE	ND	2700	68
CARBON TETRACHLORIDE	ND	2700	430
CHLOROBENZENE	ND	2700	110
CHLOROETHANE	ND	2700	960
CHLOROFORM	ND	2700	230
CHLOROMETHANE	ND	2700	1100
CIS-1,2-DICHLOROETHENE	ND	2700	160
CIS-1,3-DICHLOROPROPENE	ND	2700	120
DIBROMOCHLOROMETHANE	ND	2700	43
ETHYLBENZENE	ND	2700	210
MTBE	ND	5400	200
METHYLENE CHLORIDE	1800JB	2700	220
STYRENE	ND	2700	240
TETRACHLOROETHENE	ND	2700	130
TOLUENE	ND	2700	170
TRANS-1,2-DICHLOROETHENE	ND	2700	160
TRANS-1,3-DICHLOROPROPENE	ND	2700	360
TRICHLOROETHENE	ND	2700	140
VINYL ACETATE	ND	27000	390
VINYL CHLORIDE	ND	2700	540
XYLENES	2200J	2700	590

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	106	52-149
TOLUENE-D8	102	65-135
BROMOFLUOROBENZENE	110	65-135

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
Methanol Extraction date: 01/24/00 13:15

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

Client	: IT CORPORATION	Date Collected:	01/19/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	01/19/00
Batch No.	: 00A073	Date Extracted:	01/24/00 22:17
Sample ID:	18609-2674	Date Analyzed:	01/24/00 22:17
Lab Samp ID:	A073-04	Dilution Factor:	500
Lab File ID:	RAP134	Matrix :	SOIL
Ext Btch ID:	VOA0502	% Moisture :	10.4
Calib. Ref.:	RAP121	Instrument ID :	T-002

PARAMETERS	RESULTS (ug/kg)	PRL (ug/kg)	MDL (ug/kg)
1,1,1-TRICHLOROETHANE	ND	2800	180
1,1,2,2-TETRACHLOROETHANE	ND	2800	180
1,1,2-TRICHLOROETHANE	ND	2800	130
1,1-DICHLOROETHANE	ND	2800	170
1,1-DICHLOROETHENE	ND	2800	300
1,2-DICHLOROETHANE	ND	2800	180
1,2-DICHLOROPROPANE	ND	2800	210
2-BUTANONE	ND	28000	2900
2-CHLOROETHYLVINYLETHER	ND	28000	95
2-HEXANONE	ND	28000	700
4-METHYL-2-PENTANONE	ND	28000	630
ACETONE	ND	28000	2300
BENZENE	ND	2800	140
BROMODICHLOROMETHANE	ND	2800	140
BROMOFORM	ND	2800	160
BROMOMETHANE	ND	2800	360
CARBON DISULFIDE	ND	2800	70
CARBON TETRACHLORIDE	ND	2800	440
CHLOROBENZENE	ND	2800	110
CHLOROETHANE	ND	2800	990
CHLOROFORM	ND	2800	240
CHLOROMETHANE	ND	2800	1100
CIS-1,2-DICHLOROETHENE	ND	2800	160
CIS-1,3-DICHLOROPROPENE	ND	2800	120
DIBROMOCHLOROMETHANE	ND	2800	44
ETHYLBENZENE	ND	2800	220
MTBE	ND	5600	210
METHYLENE CHLORIDE	1600JB	2800	230
STYRENE	ND	2800	240
TETRACHLOROETHENE	ND	2800	140
TOLUENE	ND	2800	180
TRANS-1,2-DICHLOROETHENE	ND	2800	160
TRANS-1,3-DICHLOROPROPENE	ND	2800	370
TRICHLOROETHENE	ND	2800	140
VINYL ACETATE	ND	28000	400
VINYL CHLORIDE	ND	2800	560
XYLENES	1100J	2800	610

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	101	52-149
TOLUENE-D8	104	65-135
BROMOFLUOROBENZENE	108	65-135

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
Methanol Extraction date: 01/24/00 13:15

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

Client	: IT CORPORATION	Date Collected:	01/19/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	01/19/00
Batch No.	: 00A073	Date Extracted:	01/24/00 22:51
Sample ID:	18609-2675	Date Analyzed:	01/24/00 22:51
Lab Samp ID:	A073-05	Dilution Factor:	500
Lab File ID:	RAP135	Matrix :	SOIL
Ext Btch ID:	VOA0502	% Moisture :	20.5
Calib. Ref.:	RAP121	Instrument ID :	T-002

PARAMETERS	RESULTS (ug/kg)	PRL (ug/kg)	MDL (ug/kg)
1,1,1-TRICHLOROETHANE	ND	3100	210
1,1,2,2-TETRACHLOROETHANE	ND	3100	210
1,1,2-TRICHLOROETHANE	ND	3100	150
1,1-DICHLOROETHANE	ND	3100	190
1,1-DICHLOROETHENE	ND	3100	340
1,2-DICHLOROETHANE	ND	3100	210
1,2-DICHLOROPROPANE	ND	3100	240
2-BUTANONE	ND	31000	3200
2-CHLOROETHYLVINYLETHER	ND	31000	110
2-HEXANONE	ND	31000	780
4-METHYL-2-PENTANONE	ND	31000	720
ACETONE	ND	31000	2600
BENZENE	ND	3100	160
BROMODICHLOROMETHANE	ND	3100	160
BROMOFORM	ND	3100	180
BROMOMETHANE	ND	3100	400
CARBON DISULFIDE	ND	3100	79
CARBON TETRACHLORIDE	ND	3100	500
CHLOROBENZENE	ND	3100	120
CHLOROETHANE	ND	3100	1100
CHLOROFORM	ND	3100	270
CHLOROMETHANE	ND	3100	1300
CIS-1,2-DICHLOROETHENE	ND	3100	180
CIS-1,3-DICHLOROPROPENE	ND	3100	140
DIBROMOCHLOROMETHANE	ND	3100	50
ETHYLBENZENE	ND	3100	250
MTBE	ND	6300	230
METHYLENE CHLORIDE	1600JB	3100	260
STYRENE	ND	3100	280
TETRACHLOROETHENE	ND	3100	150
TOLUENE	ND	3100	200
TRANS-1,2-DICHLOROETHENE	ND	3100	180
TRANS-1,3-DICHLOROPROPENE	ND	3100	420
TRICHLOROETHENE	ND	3100	160
VINYL ACETATE	ND	31000	450
VINYL CHLORIDE	ND	3100	640
XYLENES	ND	3100	680

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	101	52-149
TOLUENE-D8	106	65-135
BROMOFLUOROBENZENE	115	65-135

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
Methanol Extraction date: 01/24/00 13:15

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

Client	: IT CORPORATION	Date Collected:	01/19/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	01/19/00
Batch No.	: 00A073	Date Extracted:	01/25/00 17:28
Sample ID:	18609-2676	Date Analyzed:	01/25/00 17:28
Lab Samp ID:	A073-06	Dilution Factor:	500
Lab File ID:	RAP148	Matrix :	SOIL
Ext Btch ID:	VOA0602	% Moisture :	4.2
Calib. Ref.:	RAP142	Instrument ID :	T-002

PARAMETERS	RESULTS (ug/kg)	PRL (ug/kg)	MDL (ug/kg)
1,1,1-TRICHLOROETHANE	ND	2600	170
1,1,2,2-TETRACHLOROETHANE	ND	2600	170
1,1,2-TRICHLOROETHANE	ND	2600	120
1,1-DICHLOROETHANE	ND	2600	160
1,1-DICHLOROETHENE	ND	2600	280
1,2-DICHLOROETHANE	ND	2600	170
1,2-DICHLOROPROPANE	ND	2600	200
2-BUTANONE	ND	26000	2700
2-CHLOROETHYLVINYLETHER	ND	26000	89
2-HEXANONE	ND	26000	650
4-METHYL-2-PENTANONE	ND	26000	590
ACETONE	ND	26000	2100
BENZENE	ND	2600	130
BROMODICHLOROMETHANE	ND	2600	140
BROMOFORM	ND	2600	150
BROMOMETHANE	ND	2600	330
CARBON DISULFIDE	ND	2600	66
CARBON TETRACHLORIDE	ND	2600	410
CHLOROBENZENE	ND	2600	100
CHLOROETHANE	ND	2600	930
CHLOROFORM	ND	2600	220
CHLOROMETHANE	ND	2600	1100
CIS-1,2-DICHLOROETHENE	ND	2600	150
CIS-1,3-DICHLOROPROPENE	ND	2600	120
DIBROMOCHLOROMETHANE	ND	2600	41
ETHYLBENZENE	ND	2600	200
MTBE	ND	5200	190
METHYLENE CHLORIDE	580JB	2600	210
STYRENE	ND	2600	230
TETRACHLOROETHENE	ND	2600	130
TOLUENE	ND	2600	160
TRANS-1,2-DICHLOROETHENE	ND	2600	150
TRANS-1,3-DICHLOROPROPENE	ND	2600	350
TRICHLOROETHENE	ND	2600	130
VINYL ACETATE	ND	26000	370
VINYL CHLORIDE	ND	2600	530
XYLENES	800J	2600	570

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	94	52-149
TOLUENE-D8	104	65-135
BROMOFLUOROBENZENE	105	65-135

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
Methanol Extraction date: 01/24/00 13:15

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

Client	: IT CORPORATION	Date Collected:	01/19/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	01/19/00
Batch No.	: 00A073	Date Extracted:	01/24/00 23:59
Sample ID:	18609-2677	Date Analyzed:	01/24/00 23:59
Lab Samp ID:	A073-07	Dilution Factor:	500
Lab File ID:	RAP137	Matrix :	SOIL
Ext Btch ID:	VOA0502	% Moisture :	10.0
Calib. Ref.:	RAP121	Instrument ID :	T-002

PARAMETERS	RESULTS (ug/kg)	PRL (ug/kg)	MDL (ug/kg)
1,1,1-TRICHLOROETHANE	ND	2800	180
1,1,2,2-TETRACHLOROETHANE	ND	2800	180
1,1,2-TRICHLOROETHANE	ND	2800	130
1,1-DICHLOROETHANE	ND	2800	170
1,1-DICHLOROETHENE	ND	2800	300
1,2-DICHLOROETHANE	ND	2800	180
1,2-DICHLOROPROPANE	ND	2800	210
2-BUTANONE	ND	28000	2800
2-CHLOROETHYLVINYLETHER	ND	28000	94
2-HEXANONE	ND	28000	690
4-METHYL-2-PENTANONE	ND	28000	630
ACETONE	ND	28000	2300
BENZENE	ND	2800	140
BROMODICHLOROMETHANE	ND	2800	140
BROMOFORM	ND	2800	150
BROMOMETHANE	ND	2800	360
CARBON DISULFIDE	ND	2800	70
CARBON TETRACHLORIDE	ND	2800	440
CHLOROBENZENE	ND	2800	110
CHLOROETHANE	ND	2800	990
CHLOROFORM	ND	2800	240
CHLOROMETHANE	ND	2800	1100
CIS-1,2-DICHLOROETHENE	ND	2800	160
CIS-1,3-DICHLOROPROPENE	ND	2800	120
DIBROMOCHLOROMETHANE	ND	2800	44
ETHYLBENZENE	2800J	2800	220
MTBE	ND	5600	210
METHYLENE CHLORIDE	1400JB	2800	230
STYRENE	ND	2800	240
TETRACHLOROETHENE	ND	2800	140
TOLUENE	ND	2800	170
TRANS-1,2-DICHLOROETHENE	ND	2800	160
TRANS-1,3-DICHLOROPROPENE	ND	2800	370
TRICHLOROETHENE	ND	2800	140
VINYL ACETATE	ND	28000	400
VINYL CHLORIDE	ND	2800	560
XYLENES	11000	2800	600

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	101	52-149
TOLUENE-D8	109	65-135
BROMOFLUOROBENZENE	113	65-135

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
Methanol Extraction date: 01/24/00 13:15

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

Client	: IT CORPORATION	Date Collected:	01/19/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	01/19/00
Batch No.	: 00A073	Date Extracted:	01/25/00 00:34
Sample ID:	18609-2678	Date Analyzed:	01/25/00 00:34
Lab Samp ID:	A073-08	Dilution Factor:	500
Lab File ID:	RAP138	Matrix :	SOIL
Ext Btch ID:	VOA0502	% Moisture :	17.4
Calib. Ref.:	RAP121	Instrument ID :	T-002

PARAMETERS	RESULTS (ug/kg)	PRL (ug/kg)	MDL (ug/kg)
1,1,1-TRICHLOROETHANE	ND	3000	200
1,1,2,2-TETRACHLOROETHANE	ND	3000	200
1,1,2-TRICHLOROETHANE	ND	3000	140
1,1-DICHLOROETHANE	ND	3000	180
1,1-DICHLOROETHENE	ND	3000	330
1,2-DICHLOROETHANE	ND	3000	200
1,2-DICHLOROPROPANE	ND	3000	230
2-BUTANONE	ND	30000	3100
2-CHLOROETHYLVINYLETHER	ND	30000	100
2-HEXANONE	ND	30000	750
4-METHYL-2-PENTANONE	ND	30000	690
ACETONE	ND	30000	2500
BENZENE	360J	3000	150
BROMODICHLOROMETHANE	ND	3000	160
BROMOFORM	ND	3000	170
BROMOMETHANE	ND	3000	390
CARBON DISULFIDE	ND	3000	76
CARBON TETRACHLORIDE	ND	3000	480
CHLOROBENZENE	ND	3000	120
CHLOROETHANE	ND	3000	1100
CHLOROFORM	ND	3000	260
CHLOROMETHANE	ND	3000	1200
CIS-1,2-DICHLOROETHENE	ND	3000	180
CIS-1,3-DICHLOROPROPENE	ND	3000	130
DIBROMOCHLOROMETHANE	ND	3000	48
ETHYLBENZENE	4000	3000	240
MTBE	ND	6100	220
METHYLENE CHLORIDE	2000JB	3000	250
STYRENE	ND	3000	270
TETRACHLOROETHENE	ND	3000	150
TOLUENE	ND	3000	190
TRANS-1,2-DICHLOROETHENE	ND	3000	170
TRANS-1,3-DICHLOROPROPENE	ND	3000	400
TRICHLOROETHENE	ND	3000	150
VINYL ACETATE	ND	30000	430
VINYL CHLORIDE	ND	3000	610
XYLENES	19000	3000	660

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	109	52-149
TOLUENE-D8	105	65-135
BROMOFLUOROBENZENE	107	65-135

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
Methanol Extraction date: 01/24/00 13:15

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

Client	: IT CORPORATION	Date Collected:	01/19/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	01/19/00
Batch No.	: 00A073	Date Extracted:	01/24/00 18:17
Sample ID:	18609-2679	Date Analyzed:	01/24/00 18:17
Lab Samp ID:	A073-09	Dilution Factor:	1
Lab File ID:	RAP127	Matrix :	WATER
Ext Btch ID:	VOA0502	% Moisture :	NA
Calib. Ref.:	RAP121	Instrument ID :	T-002

PARAMETERS	RESULTS (ug/L)	PRL (ug/L)	MDL (ug/L)
1,1,1-TRICHLOROETHANE	ND	5	1.1
1,1,2,2-TETRACHLOROETHANE	ND	5	.49
1,1,2-TRICHLOROETHANE	ND	5	.52
1,1-DICHLOROETHANE	ND	5	1.2
1,1-DICHLOROETHENE	ND	5	2
1,2-DICHLOROETHANE	ND	5	.58
1,2-DICHLOROPROPANE	ND	5	.53
2-BUTANONE	ND	50	7.9
2-CHLOROETHYLVINYLETHER	ND	50	.83
2-HEXANONE	ND	50	1
4-METHYL-2-PENTANONE	ND	50	1
ACETONE	ND	50	10
BENZENE	ND	5	.85
BROMODICHLOROMETHANE	ND	5	.33
BROMOFORM	ND	5	.29
BROMOMETHANE	ND	5	1.5
CARBON DISULFIDE	ND	5	1.3
CARBON TETRACHLORIDE	ND	5	1.3
CHLOROBENZENE	ND	5	.68
CHLOROETHANE	ND	5	2.9
CHLOROFORM	ND	5	.85
CHLOROMETHANE	ND	5	1.7
CIS-1,2-DICHLOROETHENE	ND	5	.97
CIS-1,3-DICHLOROPROPENE	ND	5	.47
DIBROMOCHLOROMETHANE	ND	5	.29
ETHYLBENZENE	ND	5	.72
MTBE	ND	10	.96
METHYLENE CHLORIDE	2.1J	5	1.8
STYRENE	ND	5	.58
TETRACHLOROETHENE	ND	5	1.2
TOLUENE	ND	5	.92
TRANS-1,2-DICHLOROETHENE	ND	5	1.5
TRANS-1,3-DICHLOROPROPENE	ND	5	.45
TRICHLOROETHENE	ND	5	.9
VINYL ACETATE	ND	50	6.2
VINYL CHLORIDE	ND	5	1.7
XYLENES	ND	5	2.4

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	98	62-139
TOLUENE-D8	104	75-125
BROMOFLUOROBENZENE	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:	01/19/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	01/19/00
Batch No.	: 00A073	Date Extracted:	01/25/00 01:08
Sample ID:	18609-2680	Date Analyzed:	01/25/00 01:08
Lab Samp ID:	A073-10	Dilution Factor:	500
Lab File ID:	RAP139	Matrix :	SOIL
Ext Btch ID:	VOA0502	% Moisture :	13.7
Calib. Ref.:	RAP121	Instrument ID :	T-002

PARAMETERS	RESULTS (ug/kg)	PRL (ug/kg)	MDL (ug/kg)
1,1,1-TRICHLOROETHANE	ND	2900	190
1,1,2,2-TETRACHLOROETHANE	ND	2900	190
1,1,2-TRICHLOROETHANE	ND	2900	130
1,1-DICHLOROETHANE	ND	2900	180
1,1-DICHLOROETHENE	ND	2900	310
1,2-DICHLOROETHANE	ND	2900	190
1,2-DICHLOROPROPANE	ND	2900	220
2-BUTANONE	ND	29000	3000
2-CHLOROETHYLVINYLETHER	ND	29000	98
2-HEXANONE	ND	29000	720
4-METHYL-2-PENTANONE	ND	29000	660
ACETONE	ND	29000	2400
BENZENE	ND	2900	140
BROMODICHLOROMETHANE	ND	2900	150
BROMOFORM	ND	2900	160
BROMOMETHANE	ND	2900	370
CARBON DISULFIDE	ND	2900	73
CARBON TETRACHLORIDE	ND	2900	460
CHLOROBENZENE	ND	2900	110
CHLOROETHANE	ND	2900	1000
CHLOROFORM	ND	2900	250
CHLOROMETHANE	ND	2900	1200
CIS-1,2-DICHLOROETHENE	ND	2900	170
CIS-1,3-DICHLOROPROPENE	ND	2900	130
DIBROMOCHLOROMETHANE	ND	2900	46
ETHYLBENZENE	410J	2900	230
MTBE	ND	5800	210
METHYLENE CHLORIDE	1500JB	2900	240
STYRENE	ND	2900	250
TETRACHLOROETHENE	ND	2900	140
TOLUENE	ND	2900	180
TRANS-1,2-DICHLOROETHENE	ND	2900	170
TRANS-1,3-DICHLOROPROPENE	ND	2900	390
TRICHLOROETHENE	ND	2900	150
VINYL ACETATE	ND	29000	410
VINYL CHLORIDE	ND	2900	590
XYLENES	2000J	2900	630

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	102	52-149
TOLUENE-D8	102	65-135
BROMOFLUOROBENZENE	107	65-135

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
Methanol Extraction date: 01/24/00 13:15

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

Client	: IT CORPORATION	Date Collected:	NA
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	01/24/00
Batch No.	: 00A073	Date Extracted:	01/24/00 16:25
Sample ID:	MBLK1S	Date Analyzed:	01/24/00 16:25
Lab Samp ID:	VOA0502B	Dilution Factor:	50
Lab File ID:	RAP124	Matrix :	SOIL
Ext Btch ID:	VOA0502	% Moisture :	NA
Calib. Ref.:	RAP121	Instrument ID :	T-002

PARAMETERS	RESULTS (ug/kg)	PRL (ug/kg)	MDL (ug/kg)
1,1,1-TRICHLOROETHANE	ND	250	17
1,1,2,2-TETRACHLOROETHANE	ND	250	17
1,1,2-TRICHLOROETHANE	ND	250	12
1,1-DICHLOROETHANE	ND	250	15
1,1-DICHLOROETHENE	ND	250	27
1,2-DICHLOROETHANE	ND	250	16
1,2-DICHLOROPROPANE	ND	250	19
2-BUTANONE	ND	2500	260
2-CHLOROETHYLVINYLETHER	ND	2500	8.5
2-HEXANONE	ND	2500	62
4-METHYL-2-PENTANONE	ND	2500	57
ACETONE	ND	2500	200
BENZENE	ND	250	12
BROMODICHLOROMETHANE	ND	250	13
BROMOFORM	ND	250	14
BROMOMETHANE	ND	250	32
CARBON DISULFIDE	ND	250	6.3
CARBON TETRACHLORIDE	ND	250	40
CHLOROBENZENE	ND	250	9.9
CHLOROETHANE	ND	250	89
CHLOROFORM	ND	250	21
CHLOROMETHANE	ND	250	100
CIS-1,2-DICHLOROETHENE	ND	250	15
CIS-1,3-DICHLOROPROPENE	ND	250	11
DIBROMOCHLOROMETHANE	ND	250	4
ETHYLBENZENE	ND	250	20
MTBE	ND	500	19
METHYLENE CHLORIDE	79J	250	20
STYRENE	ND	250	22
TETRACHLOROETHENE	ND	250	12
TOLUENE	ND	250	16
TRANS-1,2-DICHLOROETHENE	ND	250	14
TRANS-1,3-DICHLOROPROPENE	ND	250	33
TRICHLOROETHENE	ND	250	13
VINYL ACETATE	ND	2500	36
VINYL CHLORIDE	ND	250	50
XYLENES	ND	250	54

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	101	52-149
TOLUENE-D8	104	65-135
BROMOFLUOROBENZENE	108	65-135

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:	01/24/00
Batch No.	: 00A073	Date Extracted:	01/24/00 17:08
Sample ID:	MBLK1W	Date Analyzed:	01/24/00 17:08
Lab Samp ID:	VOA0502Q	Dilution Factor:	1
Lab File ID:	RAP125	Matrix :	WATER
Ext Btch ID:	VOA0502	% Moisture :	NA
Calib. Ref.:	RAP121	Instrument ID :	T-002

PARAMETERS	RESULTS (ug/L)	PRL (ug/L)	MDL (ug/L)
1,1,1-TRICHLOROETHANE	ND	5	1.1
1,1,2,2-TETRACHLOROETHANE	ND	5	.49
1,1,2-TRICHLOROETHANE	ND	5	.52
1,1-DICHLOROETHANE	ND	5	1.2
1,1-DICHLOROETHENE	ND	5	2
1,2-DICHLOROETHANE	ND	5	.58
1,2-DICHLOROPROPANE	ND	5	.53
2-BUTANONE	ND	50	7.9
2-CHLOROETHYLVINYLETHER	ND	50	.83
2-HEXANONE	ND	50	1
4-METHYL-2-PENTANONE	ND	50	1
ACETONE	ND	50	10
BENZENE	ND	5	.85
BROMODICHLOROMETHANE	ND	5	.33
BROMOFORM	ND	5	.29
BROMOMETHANE	ND	5	1.5
CARBON DISULFIDE	ND	5	1.3
CARBON TETRACHLORIDE	ND	5	1.3
CHLOROBENZENE	ND	5	.68
CHLOROETHANE	ND	5	2.9
CHLOROFORM	ND	5	.85
CHLOROMETHANE	ND	5	1.7
CIS-1,2-DICHLOROETHENE	ND	5	.97
CIS-1,3-DICHLOROPROPENE	ND	5	.47
DIBROMOCHLOROMETHANE	ND	5	.29
ETHYLBENZENE	ND	5	.72
MTBE	ND	10	.96
METHYLENE CHLORIDE	ND	5	1.8
STYRENE	ND	5	.58
TETRACHLOROETHENE	ND	5	1.2
TOLUENE	ND	5	.92
TRANS-1,2-DICHLOROETHENE	ND	5	1.5
TRANS-1,3-DICHLOROPROPENE	ND	5	.45
TRICHLOROETHENE	ND	5	.9
VINYL ACETATE	ND	50	6.2
VINYL CHLORIDE	ND	5	1.7
XYLENES	ND	5	2.4

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	93	62-139
TOLUENE-D8	98	75-125
BROMOFLUOROBENZENE	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

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
BATCH NO.: 00A073
METHOD: METHOD 5030A/8260A

MATRIX:	SOIL			% MOISTURE:	NA
DILUTION FACTOR:	50	1	1		
SAMPLE ID:	MBLK1S				
LAB SAMP ID:	VOA0502B	VOA0502L	VOA0502C		
LAB FILE ID:	RAP124	RAP122	RAP123		
DATE EXTRACTED:	01/24/0016:25	01/24/0015:17	01/24/0015:51	DATE COLLECTED:	NA
DATE ANALYZED:	01/24/0016:25	01/24/0015:17	01/24/0015:51	DATE RECEIVED:	01/24/00
PREP. BATCH:	VOA0502	VOA0502	VOA0502		
CALIB. REF:	RAP121	RAP121	RAP121		

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
1,1-Dichloroethene	ND	20	19.6	98	20	18.9	95	4	65-135	30
Benzene	ND	20	20.7	104	20	20.1	100	3	65-135	30
Chlorobenzene	ND	20	20.3	102	20	19.8	99	3	65-135	30
Toluene	ND	20	20.5	102	20	20	100	2	64-135	30
Trichloroethene	ND	20	20.5	102	20	19.7	99	4	61-135	30

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT (%)
1,2-Dichlorethane-d4	50	50.2	100	50	50.2	100	52-149
Toluene-d8	50	52.7	105	50	52.4	105	65-135
Bromofluorobenzene	50	53.5	107	50	52.9	106	65-135

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

Client	: IT CORPORATION	Date Collected:	NA
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	01/25/00
Batch No.	: 00A073	Date Extracted:	01/25/00 15:13
Sample ID:	MBLK2S	Date Analyzed:	01/25/00 15:13
Lab Samp ID:	VOA0602B	Dilution Factor:	50
Lab File ID:	RAP145	Matrix :	SOIL
Ext Btch ID:	VOA0602	% Moisture :	NA
Calib. Ref.:	RAP142	Instrument ID :	T-002

PARAMETERS	RESULTS (ug/kg)	PRL (ug/kg)	MDL (ug/kg)
1,1,1-TRICHLOROETHANE	ND	250	17
1,1,2,2-TETRACHLOROETHANE	ND	250	17
1,1,2-TRICHLOROETHANE	ND	250	12
1,1-DICHLOROETHANE	ND	250	15
1,1-DICHLOROETHENE	ND	250	27
1,2-DICHLOROETHANE	ND	250	16
1,2-DICHLOROPROPANE	ND	250	19
2-BUTANONE	ND	2500	260
2-CHLOROETHYLVINYLETHER	ND	2500	8.5
2-HEXANONE	ND	2500	62
4-METHYL-2-PENTANONE	ND	2500	57
ACETONE	ND	2500	200
BENZENE	ND	250	12
BROMODICHLOROMETHANE	ND	250	13
BROMOFORM	ND	250	14
BROMOMETHANE	ND	250	32
CARBON DISULFIDE	ND	250	6.3
CARBON TETRACHLORIDE	ND	250	40
CHLOROBENZENE	ND	250	9.9
CHLOROETHANE	ND	250	89
CHLOROFORM	ND	250	21
CHLOROMETHANE	ND	250	100
CIS-1,2-DICHLOROETHENE	ND	250	15
CIS-1,3-DICHLOROPROPENE	ND	250	11
DIBROMOCHLOROMETHANE	ND	250	4
ETHYLBENZENE	ND	250	20
MTBE	ND	500	19
METHYLENE CHLORIDE	61J	250	20
STYRENE	ND	250	22
TETRACHLOROETHENE	ND	250	12
TOLUENE	ND	250	16
TRANS-1,2-DICHLOROETHENE	ND	250	14
TRANS-1,3-DICHLOROPROPENE	ND	250	33
TRICHLOROETHENE	ND	250	13
VINYL ACETATE	ND	2500	36
VINYL CHLORIDE	ND	250	50
XYLENES	ND	250	54

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	95	52-149
TOLUENE-D8	100	65-135
BROMOFLUOROBENZENE	104	65-135

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.: 00A073
METHOD: METHOD 5030A/8260A

MATRIX:	SOIL			% MOISTURE:	NA
DILUTION FACTOR:	50	1	1		
SAMPLE ID:	MBLK2S				
LAB SAMP ID:	VOA0602B	VOA0602L	VOA0602C		
LAB FILE ID:	RAP145	RAP143	RAP144		
DATE EXTRACTED:	01/25/0015:13	01/25/0014:04	01/25/0014:38	DATE COLLECTED:	NA
DATE ANALYZED:	01/25/0015:13	01/25/0014:04	01/25/0014:38	DATE RECEIVED:	01/25/00
PREP. BATCH:	VOA0602	VOA0602	VOA0602		
CALIB. REF:	RAP142	RAP142	RAP142		

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
1,1-Dichloroethene	ND	20	20	100	20	19.3	96	4	65-135	30
Benzene	ND	20	20.1	101	20	19.3	97	4	65-135	30
Chlorobenzene	ND	20	19.5	98	20	19	95	3	65-135	30
Toluene	ND	20	20	100	20	19.2	96	4	64-135	30
Trichloroethene	ND	20	19.9	99	20	19.3	97	3	61-135	30

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT (%)
1,2-Dichlorethane-d4	50	49.4	99	50	48.8	98	52-149
Toluene-d8	50	51.8	104	50	51.6	103	65-135
Bromofluorobenzene	50	52.8	106	50	53.4	107	65-135

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

Date: 02-23-2000
EMAX Batch No.: 00A073A

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 01/19/00 and requested on 02/01/00. The data reported include :

Sample ID	Control #	Col Date	Matrix	Analysis
18609-2677	A073-07	02/02/00	Soil	SPLP M8015
				SPLP TPH-Gas
				SPLP BTEX
18609-2678	A073-08	02/02/00	Soil	SPLP BTEX
				SPLP M8015
				SPLP TPH-Gas

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 SW1312/M8015
TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

lient : IT CORPORATION
roject : MCAS EL TORO/18609/D.O. 70
atch No. : 00A073A

Matrix : WATER
Instrument ID : GCT019

AMPLE ID	EMAX SAMPLE ID	RESULTS (mg/L)	SUR1 (%)	SUR2 (%)	DLF	MOIST	PQL (mg/L)	MDL (mg/L)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
BLK1W	DSB004WB	ND	74	102	1	NA	.1	.038	02/06/0006:37	02/04/0018:00	TB02073A	TB02071A	DSB004W	NA	02/04/00
CS1W	DSB004WL	5.04	85	94	1	NA	.1	.038	02/06/0007:14	02/04/0018:00	TB02074A	TB02071A	DSB004W	NA	02/04/00
CD1W	DSB004WC	5.34	87	101	1	NA	.1	.038	02/06/0007:52	02/04/0018:00	TB02075A	TB02071A	DSB004W	NA	02/04/00
BLK2W	TXB002SB	ND	75	94	1	NA	.1	.038	02/06/0010:21	02/04/0018:00	TB02079A	TB02071A	DSB004W	NA	02/04/00
8609-2677	A073-07	6.7*	71	93	1	NA	.1	.038	02/06/0023:33	02/04/0018:00	TB02100A	TB02095A	DSB004W	02/02/00	01/19/00
8609-2678	A073-08	2.9*	78	92	1	NA	.1	.038	02/07/0000:10	02/04/0018:00	TB02101A	TB02095A	DSB004W	02/02/00	01/19/00

QL : Project Quantitation Limit
URR1 : Bromobenzene 65-135 60-140
URR2 : Hexacosane 60-140 55-150
-C RANGE: C7 -C18 = JP5
C10-C24 = Diesel
C18-C34 = Motor Oil
C6 -C12 = Gas
: Chromatogram shows a mixture of JP5 and Diesel, results were calculated as diesel.

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

IT CORPORATION
MCAS EL TORO/18609/D.O. 70
NO.: 00A073A
THOD: METHOD SW1312/M8015

TRIX:	WATER			% MOISTURE:	NA
LUTION FACTOR:	1	1	1		
MPLE ID:	MBLK1W				
B SAMP ID:	DSB004WB	DSB004WL	DSB004WC		
B FILE ID:	TB02073A	TB02074A	TB02075A		
TE EXTRACTED:	02/04/0018:00	02/04/0018:00	02/04/0018:00	DATE COLLECTED:	NA
TE ANALYZED:	02/06/0006:37	02/06/0007:14	02/06/0007:52	DATE RECEIVED:	02/04/00
EP. BATCH:	DSB004W	DSB004W	DSB004W		
LIB. REF:	TB02071A	TB02071A	TB02071A		

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 (%)
esel	ND	5	5.04	101	5	5.34	107	6	61-143	30

RROGATE PARAMETER	SPIKE AMT (mg/L)	BS RSLT (mg/L)	BS % REC	SPIKE AMT (mg/L)	BSD RSLT (mg/L)	BSD % REC	QC LIMIT (%)
omobenzene	1	.848	85	1	.87	87	65-135
xacosane	1	.938	94	1	1.01	101	60-140

METHOD SW1312/M8015
TOTAL PETROLEUM HYDROCARBONS BY PURGE & TRAP

Client : IT CORPORATION
Project : MCAS EL TORO/18609/D.O. 70
Batch No. : 00A073A

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	VAB0139B	ND	73	1	NA	.1	.018	02/03/0015:05	02/03/0015:05	EB01004A	EB01003A	VAB0139	NA	02/03/00
LCS1W	VAB0139L	.88	84	1	NA	.1	.018	02/03/0015:40	02/03/0015:40	EB01005A	EB01003A	VAB0139	NA	02/03/00
LCD1W	VAB0139C	.888	87	1	NA	.1	.018	02/03/0016:15	02/03/0016:15	EB01006A	EB01003A	VAB0139	NA	02/03/00
MBLK1S	TVB003SB	ND	72	1	NA	.1	.018	02/04/0002:02	02/04/0002:02	EB01023A	EB01015A	VAB0139	NA	02/04/00
18609-2677	A073-07	5.5*	116	2	NA	.2	.036	02/04/0002:36	02/04/0002:36	EB01024A	EB01015A	VAB0139	01/19/00	01/19/00
18609-2678	A073-08	7*	87	10	NA	1	.18	02/04/0003:11	02/04/0003:11	EB01025A	EB01015A	VAB0139	01/19/00	01/19/00

SURR : Bromofluorobenzene
PRL : Reporting Limit
E : Value exceed the upper level of the initial calibration
D : Value from dilution
* : Chromatogram exhibits pattern of heavier HC.
Extraction Date: 02/03/00 12:30

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

:T: IT CORPORATION
:CT: MCAS EL TORO/18609/D.O. 70
ATCH NO.: 00A073A
ETHOD: METHOD SW1312/M8015

==========

ATRIX: WATER % MOISTURE: NA

ILUTION FACTOR:	1	1	1		
AMPLE ID:	MBLK1W				
AB SAMP ID:	VAB0139B	VAB0139L	VAB0139C		
AB FILE ID:	EB01004A	EB01005A	EB01006A		
ATE EXTRACTED:	02/03/0015:05	02/03/0015:40	02/03/0016:15	DATE COLLECTED:	NA
ATE ANALYZED:	02/03/0015:05	02/03/0015:40	02/03/0016:15	DATE RECEIVED:	02/03/00
REP. BATCH:	VAB0139	VAB0139	VAB0139		
ALIB. REF:	EB01003A	EB01003A	EB01003A		

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 (%)
asoline	ND	1.1	.88	80	1.1	.888	81	1	67-136	30

==========

ATE PARAMETER	SPIKE AMT (mg/L)	BS RSLT (mg/L)	BS % REC	SPIKE AMT (mg/L)	BSD RSLT (mg/L)	BSD % REC	QC LIMIT (%)
romofluorobenzene	.05	.0422	84	.05	.0437	87	65-135

EPA METHOD SW1312/8021
SPLP/BTEX

Client	: IT CORPORATION	Date Collected:	02/02/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	01/19/00
Batch No.	: 00A073A	Date Extracted:	02/04/00 02:36
Sample ID:	18609-2677	Date Analyzed:	02/04/00 02:36
Lab Samp ID:	A073-07	Dilution Factor:	2
Lab File ID:	EB01024B	Matrix :	WATER
Ext Btch ID:	VAB0139	% Moisture :	NA
Calib. Ref.:	EB01014B	Instrument ID :	GCT039

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
BENZENE	ND	1	.56
TOLUENE	1.1	1	.56
ETHYLBENZENE	29	1	.58
TOTAL XYLENES	120	3	1.8

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
BROMOFLUOROBENZENE	103	60-140

RL: Reporting Limit
Extraction Date: 02/03/00 12:30

EPA METHOD SW1312/8021
SPLP/BTEX

Client	: IT CORPORATION	Date Collected:	02/02/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	01/19/00
Batch No.	: 00A073A	Date Extracted:	02/04/00 03:11
Sample ID:	18609-2678	Date Analyzed:	02/04/00 03:11
Lab Samp ID:	A073-08	Dilution Factor:	10
Lab File ID:	EB01025B	Matrix :	WATER
Ext Btch ID:	VAB0139	% Moisture :	NA
Calib. Ref.:	EB01014B	Instrument ID :	GCT039

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
BENZENE	46	5	2.8
TOLUENE	7.5	5	2.8
ETHYLBENZENE	130	5	2.9
TOTAL XYLENES	620	15	9.2

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
BROMOFLUOROBENZENE	94	60-140

RL: Reporting Limit
Extraction Date: 02/03/00 12:30

EPA METHOD SW1312/8021
SPLP/BTEX

Client	: IT CORPORATION	Date Collected:	NA
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	02/03/00
Batch No.	: 00A073A	Date Extracted:	02/03/00 15:05
Sample ID:	MBLK1W	Date Analyzed:	02/03/00 15:05
Lab Samp ID:	VAB0139B	Dilution Factor:	1
Lab File ID:	EB01004B	Matrix :	WATER
Ext Btch ID:	VAB0139	% Moisture :	NA
Calib. Ref.:	EB01002B	Instrument ID :	GCT039

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
BENZENE	ND	.5	.28
TOLUENE	ND	.5	.28
ETHYLBENZENE	ND	.5	.29
TOTAL XYLENES	ND	1.5	.92

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
BROMOFLUOROBENZENE	93	60-140

RL: Reporting Limit

EPA METHOD SW1312/8021
SPLP/BTEX

Client	: IT CORPORATION	Date Collected:	NA
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	02/04/00
Batch No.	: 00A073A	Date Extracted:	02/04/00 02:02
Sample ID	: MBLK2W	Date Analyzed:	02/04/00 02:02
Lab Samp ID	: TVB003SB	Dilution Factor:	1
Lab File ID	: EB01023B	Matrix :	WATER
Ext Btch ID	: VAB0139	% Moisture :	NA
Calib. Ref.	: EB01014B	Instrument ID :	GCT039

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
BENZENE	ND	.5	.28
TOLUENE	ND	.5	.28
ETHYLBENZENE	ND	.5	.29
TOTAL XYLENES	ND	1.5	.92

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
BROMOFLUOROBENZENE	84	60-140

RL: Reporting Limit
Extraction Date: 02/03/00 12:30

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
BATCH NO.: 00A073A
METHOD: EPA SW1312/8021

MATRIX:	WATER			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK1W				
LAB SAMP ID:	VAB0139B	VAB0139L	VAB0139C		
LAB FILE ID:	EB01004B	EB01005B	EB01006B		
DATE EXTRACTED:	02/03/0015:05	02/03/0015:40	02/03/0016:15	DATE COLLECTED:	NA
DATE ANALYZED:	02/03/0015:05	02/03/0015:40	02/03/0016:15	DATE RECEIVED:	02/03/00
PREP. BATCH:	VAB0139	VAB0139	VAB0139		
CALIB. REF:	EB01002B	EB01002B	EB01002B		

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 (%)
Benzene	ND	13	12.4	95	13	12.3	95	0	39-150	30
Toluene	ND	79.6	65.3	82	79.6	66.1	83	1	46-148	30
Ethylbenzene	ND	17.8	16.1	90	17.8	16.3	91	1	32-160	30
Total Xylenes	ND	93.4	80.1	86	93.4	76.3	82	5	61-129	30

SURROGATE PARAMETER	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	QC LIMIT (%)
Bromofluorobenzene	50	51.7	103	50	50.4	101	60-140

the group

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

CHAIN-OF-CUSTODY RECORD

DO 70 PROJECT DATA MANAGER'S COPY

TANK FARM 398 A 10652

FORM 0019 REV. 9-99

LAB COORDINATOR: M. Concepcion	LAB COORDINATOR'S PHONE: 949 660 7550	LAB COORDINATOR'S FAX: 949 755 5433	LABORATORY SERVICE ID: 00A084	LABORATORY CONTACT: E MAX	MAIL REPORT (COMPANY NAME): IT GROUP
PROJECT NAME: El Toro DO70	PROJECT LOCATION: MCAS, El Toro, CA	PROJECT NUMBER: 18609	LABORATORY PHONE: 310 618 8889	LABORATORY FAX:	RECIPIENT NAME: DWAYNE ISHIDA
PROJECT CONTACT: M. Concepcion	PROJECT PHONE NUMBER: 949 451 1667	PROJECT FAX: 949 475 5433	LABORATORY ADDRESS: 630 MAPLE		ADDRESS: 3347 Michelson Dr. Suite 200
PROJECT ADDRESS:	CITY, STATE AND ZIP CODE:	CLIENT: SW DIV	CITY, STATE AND ZIP CODE: TORRANCE CA		CITY, STATE AND ZIP CODE: IRVINE, CA 92612
PROJECT MANAGER: J. Sedlak	PROJECT MANAGER'S PHONE: 949 660 5446	PROJECT MANAGER'S FAX:			

Sample Identifier	Matrix	Date 2000	Time	Preserved	# of Cont.	QC Level	T.A.T.	8015 Diesel	8015 JPS	8015 Gas	8260 + MTBE	EPA 1312 (hold)				Comments (ANALYZE "X" CAP)
18609-2681	W	1-20	0730	HCl	2	3	5-Day				X					EPA 1312 on Hold
18609-2682	S	1-20	0753	None	1	3	5 day	X	X	X	X	X				
18609-2683	S	1-20	0848	None	1	3		X	X	X	X	X				SPLP GAS
18609-2684	S	1-20	0852	None	1	4		X	X	X	X	X				SPLP diesel
18609-2685	S	1-20	0955	None	1	3		X	X	X	X	X				SPLP gas/diesel
18609-2686	S	1-20	1008	None	1	3		X	X	X	X	X				SPLP gas/diesel
18609-2687	S	1-20	1100	None	1	3		X	X	X	X	X				SPLP gas/diesel
18609-2688	W	1-20	1130	see label	8	3	5-Day	X	X	X	X					

SAMPLES COLLECTED BY:

RELINQUISHED BY	RECEIVED BY	DATE	TIME
[signature]	[signature]	1/21/00	1230

COURIER AND AIR BILL NUMBER:

COOLER TEMPERATURE UPON RECEIPT:

SAMPLE'S CONDITION UPON RECEIPT

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

DO70
TF 398
MCAS EL TORO

Sample Point Location	G	C	F	QC
(1) Trip Blank	X			X
(2) CB 398-03 69.5-70	X		X	
(3) CB 398-03 99.5-100	X		X	
(4) CB 398-03 100-100.5'	X		X	X
(5) CB 398-03 139.5-140	X		X	
(6) CB 398-03 149.5-150	X		X	
(7) CB 398-03 189-189.5	X		X	
(8) EQUIPMENT RINSATE	X		X	X

Comments

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

4641

4539 J

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

Date: 02-12-2000
EMAX Batch No.: 00A084

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 01/20/00. The data reported include :

Sample ID	Control #	Col Date	Matrix	Analysis
18609-2681	A084-01	01/20/00	Water	Volatile Organics by GC/MS
18609-2682	A084-02	01/20/00	Soil	Volatile Organics by GC/MS
				Modified 8015 by Extraction
				Modified 8015 by Purge & Trap
18609-2683	A084-03	01/20/00	Soil	Modified 8015 by Extraction
				Volatile Organics by GC/MS
				Modified 8015 by Purge & Trap
18609-2684	A084-04	01/20/00	Soil	Modified 8015 by Extraction
				Modified 8015 by Purge & Trap
				Volatile Organics by GC/MS
18609-2685	A084-05	01/20/00	Soil	Volatile Organics by GC/MS
				Modified 8015 by Extraction
				Modified 8015 by Purge & Trap
18609-2686	A084-06	01/20/00	Soil	Modified 8015 by Extraction
				Modified 8015 by Purge & Trap
				Volatile Organics by GC/MS
18609-2687	A084-07	01/20/00	Soil	Volatile Organics by GC/MS
				Modified 8015 by Extraction
				Modified 8015 by Purge & Trap
18609-2688	A084-08	01/20/00	Water	Modified 8015 by Purge & Trap
				Modified 8015 by Extraction
				Volatile Organics by GC/MS

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
Project : MCAS EL TORO/18609/D.O. 70
Batch No. : 00A084

Matrix : SOIL
Instrument ID : GCT019

SAMPLE ID	EMAX SAMPLE ID	RESULTS (mg/kg)	SUR1 (%)	SUR2 (%)	DLF	MOIST	RL (mg/kg)	MDL (mg/kg)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1S	DSA035SB	ND	68	65	1	NA	10	2.1	01/30/0008:02	01/21/0016:00	TA13035A	TA13026A	DSA035S	NA	01/21/00
LCS1S	DSA035SL	444	70	64	1	NA	10	2.1	01/30/0008:39	01/21/0016:00	TA13036A	TA13026A	DSA035S	NA	01/21/00
18609-2682	A084-02	2000**	89	63	5	11.6	56.6	11.9	01/30/0021:40	01/21/0016:00	TA13057A	TA13050A	DSA035S	01/20/00	01/20/00
18609-2683	A084-03	8800**	DO	DO	10	11.1	112	23.6	01/30/0022:17	01/21/0016:00	TA13058A	TA13050A	DSA035S	01/20/00	01/20/00
18609-2684	A084-04	10000**	DO	DO	10	12.6	114	24	01/30/0022:54	01/21/0016:00	TA13059A	TA13050A	DSA035S	01/20/00	01/20/00
18609-2685	A084-05	6600**	DO	DO	10	6.8	107	22.5	01/30/0023:31	01/21/0016:00	TA13060A	TA13050A	DSA035S	01/20/00	01/20/00
18609-2686	A084-06	9100**	97	66	5	22.3	64.4	13.5	01/31/0000:09	01/21/0016:00	TA13061A	TA13050A	DSA035S	01/20/00	01/20/00
18609-2687	A084-07	5000**	93	61	5	13.6	57.9	12.1	01/31/0002:01	01/21/0016:00	TA13064A	TA13062A	DSA035S	01/20/00	01/20/00

QC LIMIT : (SOIL) 60-140 55-150
QC LIMIT : (WATER) 65-135 60-145
SURR1 : Bromobenzene
SURR2 : Hexacosane
RL : Reporting Limit
** : Chromatogram shows a mixture of JP5 and Diesel, results were calculated as diesel.
DO : Diluted out

METHOD M8015
TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

Client : IT CORPORATION
Project : MCAS EL TORO/18609/D.O. 70
Batch No. : 00A084

Matrix : WATER
Instrument ID : GCT019

SAMPLE ID	EMAX SAMPLE ID	RESULTS (mg/L)	SUR1 (%)	SUR2 (%)	DLF	MOIST	RL (mg/L)	MDL (mg/L)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1W	DSA036WB	ND	69	79	1	NA	.1	.038	01/26/0004:26	01/22/0015:00	TA11029A	TA11025A	DSA036W	NA	01/22/00
LCS1W	DSA036WL	5.05	72	76	1	NA	.1	.038	01/26/0005:03	01/22/0015:00	TA11030A	TA11025A	DSA036W	NA	01/22/00
LCD1W	DSA036WC	4.87	67	75	1	NA	.1	.038	01/26/0005:40	01/22/0015:00	TA11031A	TA11025A	DSA036W	NA	01/22/00
18609-2688	A084-08	ND	65	76	1.1	NA	.11	.0418	01/31/0002:38	01/22/0015:00	TA13065A	TA13062A	DSA036W	01/20/00	01/20/00

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 ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
BATCH NO.: 00A084
METHOD: METHOD M8015

==========

MATRIX:	SOIL		% MOISTURE:	NA
DILUTION FACTOR:	1	1		
SAMPLE ID:	MBLK1S			
LAB SAMP ID:	DSA035SB	DSA035SL		
LAB FILE ID:	TA13035A	TA13036A		
DATE EXTRACTED:	01/21/0016:00	01/21/0016:00	DATE COLLECTED:	NA
DATE ANALYZED:	01/30/0008:02	01/30/0008:39	DATE RECEIVED:	01/21/00
PREP. BATCH:	DSA035S	DSA035S		
CALIB. REF:	TA13026A	TA13026A		

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	QC LIMIT (%)
Diesel	ND	500	444	89	51-153

==========

SURROGATE PARAMETER	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	QC LIMIT (%)
Bromobenzene	100	69.9	70	60-140
Hexacosane	100	64.3	64	55-150

5014

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

IENT: IT CORPORATION
OJECT: MCAS EL TORO/18609/D.O. 70
TCH NO.: 00A084
THOD: METHOD M8015

TRIX:	WATER			% MOISTURE:	NA
LUTION FACTOR:	1	1	1		
MPLE ID:	MBLK1W				
B SAMP ID:	DSA036WB	DSA036WL	DSA036WC		
B FILE ID:	TA11029A	TA11030A	TA11031A		
TE EXTRACTED:	01/22/0015:00	01/22/0015:00	01/22/0015:00	DATE COLLECTED:	NA
TE ANALYZED:	01/26/0004:26	01/26/0005:03	01/26/0005:40	DATE RECEIVED:	01/22/00
EP. BATCH:	DSA036W	DSA036W	DSA036W		
LIB. REF:	TA11025A	TA11025A	TA11025A		

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 (%)
esel	ND	5	5.05	101	5	4.87	97	4	61-143	30

RROGATE PARAMETER	SPIKE AMT (mg/L)	BS RSLT (mg/L)	BS % REC	SPIKE AMT (mg/L)	BSD RSLT (mg/L)	BSD % REC	QC LIMIT (%)
omobenzene	1	.721	72	1	.667	67	65-135
xacosane	1	.764	76	1	.749	75	60-145

5015

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

Client : IT CORPORATION
Project : MCAS EL TORO/18609/D.O. 70
Batch No. : 00A084

Matrix : SOIL
Instrument ID : GCT039

SAMPLE ID	EMAX SAMPLE ID	RESULTS (mg/kg)	SURR (%)	DLF	MOIST	RL (mg/kg)	MDL (mg/kg)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1S	VMA3439B	ND	80	10	NA	10	.88	01/25/0013:30	01/25/0013:30	EA13045A	EA13039A	VMA3439	NA	01/25/00
LCS1S	VMA3439L	51.3	86	10	NA	10	.88	01/25/0014:04	01/25/0014:04	EA13046A	EA13039A	VMA3439	NA	01/25/00
LCD1S	VMA3439C	42.8	78	10	NA	10	.88	01/25/0014:39	01/25/0014:39	EA13047A	EA13039A	VMA3439	NA	01/25/00
MBLK2S	VMA4039B	ND	72	10	NA	10	.88	01/27/0016:20	01/27/0016:20	EA14010A	EA14003A	VMA4039	NA	01/27/00
LCS2S	VMA4039L	50.1	85	10	NA	10	.88	01/27/0016:54	01/27/0016:54	EA14011A	EA14003A	VMA4039	NA	01/27/00
LCD2S	VMA4039C	42.9	80	10	NA	10	.88	01/27/0017:29	01/27/0017:29	EA14012A	EA14003A	VMA4039	NA	01/27/00
18609-2682	A084-02	2100*	94	100	11.6	113	9.95	01/25/0015:13	01/25/0015:13	EA13048A	EA13039A	VMA3439	01/20/00	01/20/00
18609-2683	A084-03	9900*	86	1000	11.1	1120	99	01/26/0002:23	01/26/0002:23	EA13067A	EA13063A	VMA3439	01/20/00	01/20/00
18609-2684	A084-04	7000*	82	1000	12.6	1140	101	01/27/0018:03	01/27/0018:03	EA14013A	EA14003A	VMA4039	01/20/00	01/20/00
18609-2685	A084-05	6500*	77	1000	6.8	1070	94.4	01/27/0021:05	01/27/0021:05	EA14018A	EA14015A	VMA4039	01/20/00	01/20/00
18609-2686	A084-06	3100*	91	200	22.3	257	22.7	01/27/0020:31	01/27/0020:31	EA14017A	EA14015A	VMA4039	01/20/00	01/20/00
18609-2687	A084-07	3900*	80	500	13.6	579	50.9	01/27/0019:56	01/27/0019:56	EA14016A	EA14015A	VMA4039	01/20/00	01/20/00

SURR : Bromofluorobenzene
PRL : Reporting Limit
E : Value exceed the upper level of the initial calibration
D : Value from dilution
* : Chromatogram exhibits heavier pattern of HC.

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

Client : IT CORPORATION
Project : MCAS EL TORO/18609/D.O. 70
Batch No. : 00A084

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	VAA3039	ND	86	1	NA	.1	.018	01/22/0016:20	01/22/0016:20	EA12046A	EA12045A	VAA3039	NA	01/22/00
LCS1W	VAA3039L	1.38	104	1	NA	.1	.018	01/22/0016:55	01/22/0016:55	EA12047A	EA12045A	VAA3039	NA	01/22/00
LCD1W	VAA3039C	1.38	105	1	NA	.1	.018	01/22/0017:29	01/22/0017:29	EA12048A	EA12045A	VAA3039	NA	01/22/00
18609-2688	A084-08	ND	84	1	NA	.1	.018	01/22/0019:47	01/22/0019:47	EA12052A	EA12045A	VAA3039	01/20/00	01/20/00

SURR : Bromofluorobenzene
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.: 00A084
METHOD: METHOD 5030B/M8015

MATRIX:	WATER			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK1W				
LAB SAMP ID:	VAA3039	VAA3039L	VAA3039C		
LAB FILE ID:	EA12046A	EA12047A	EA12048A		
DATE EXTRACTED:	01/22/0016:20	01/22/0016:55	01/22/0017:29	DATE COLLECTED:	NA
DATE ANALYZED:	01/22/0016:20	01/22/0016:55	01/22/0017:29	DATE RECEIVED:	01/22/00
PREP. BATCH:	VAA3039	VAA3039	VAA3039		
CALIB. REF:	EA12045A	EA12045A	EA12045A		

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	1.1	1.38	125	1.1	1.38	125	0	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	.05	.0521	104	.05	.0526	105	65-135

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
BATCH NO.: 00A084
METHOD: METHOD 5030B/M8015

MATRIX:	SOIL			% MOISTURE:	NA
DILUTION FACTOR:	10	10	10		
SAMPLE ID:	MBLK1S				
LAB SAMP ID:	VMA3439B	VMA3439L	VMA3439C		
LAB FILE ID:	EA13045A	EA13046A	EA13047A		
DATE EXTRACTED:	01/25/0013:30	01/25/0014:04	01/25/0014:39	DATE COLLECTED:	NA
DATE ANALYZED:	01/25/0013:30	01/25/0014:04	01/25/0014:39	DATE RECEIVED:	01/25/00
PREP. BATCH:	VMA3439	VMA3439	VMA3439		
CALIB. REF:	EA13039A	EA13039A	EA13039A		

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
Gasoline	ND	55	51.3	93	55	42.8	78	18	57-146	50

SURROGATE PARAMETER	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	QC LIMIT (%)
Bromofluorobenzene	2.5	2.16	86	2.5	1.95	78	60-140

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
BATCH NO.: 00A084
METHOD: METHOD 5030B/M8015

MATRIX:	SOIL			% MOISTURE:	NA
DILUTION FACTOR:	10	10	10		
SAMPLE ID:	MBLK2S				
LAB SAMP ID:	VMA4039B	VMA4039L	VMA4039C		
LAB FILE ID:	EA14010A	EA14011A	EA14012A		
DATE EXTRACTED:	01/27/0016:20	01/27/0016:54	01/27/0017:29	DATE COLLECTED:	NA
DATE ANALYZED:	01/27/0016:20	01/27/0016:54	01/27/0017:29	DATE RECEIVED:	01/27/00
PREP. BATCH:	VMA4039	VMA4039	VMA4039		
CALIB. REF:	EA14003A	EA14003A	EA14003A		

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
Gasoline	ND	55	50.1	91	55	42.9	78	15	57-146	50

SURROGATE PARAMETER	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	QC LIMIT (%)
Bromofluorobenzene	2.5	2.12	85	2.5	2	80	60-140

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

Client	: IT CORPORATION	Date Collected:	01/20/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	01/20/00
Batch No.	: 00A084	Date Extracted:	02/03/00 14:43
Sample ID:	18609-2681	Date Analyzed:	02/03/00 14:43
Lab Samp ID:	A084-01	Dilution Factor:	1
Lab File ID:	RBV077	Matrix	: WATER
Ext Btch ID:	VOB0501	% Moisture	: NA
Calib. Ref.:	RBV071	Instrument ID	: T-001

PARAMETERS	RESULTS (ug/L)	PRL (ug/L)	MDL (ug/L)
1,1,1-TRICHLOROETHANE	ND	5	1.1
1,1,2,2-TETRACHLOROETHANE	ND	5	.49
1,1,2-TRICHLOROETHANE	ND	5	.52
1,1-DICHLOROETHANE	ND	5	1.2
1,1-DICHLOROETHENE	ND	5	2
1,2-DICHLOROETHANE	ND	5	.58
1,2-DICHLOROPROPANE	ND	5	.53
2-BUTANONE	ND	50	7.9
2-CHLOROETHYLVINYLETHER	ND	50	.83
2-HEXANONE	ND	50	1
4-METHYL-2-PENTANONE	ND	50	1
ACETONE	ND	50	10
BENZENE	ND	5	.85
BROMODICHLOROMETHANE	ND	5	.33
BROMOFORM	ND	5	.29
BROMOMETHANE	ND	5	1.5
CARBON DISULFIDE	ND	5	1.3
CARBON TETRACHLORIDE	ND	5	1.3
CHLOROBENZENE	ND	5	.68
CHLOROETHANE	ND	5	2.9
CHLOROFORM	ND	5	.85
CHLOROMETHANE	ND	5	1.7
CIS-1,2-DICHLOROETHENE	ND	5	.97
CIS-1,3-DICHLOROPROPENE	ND	5	.47
DIBROMOCHLOROMETHANE	ND	5	.29
ETHYLBENZENE	ND	5	.72
MTBE	ND	10	.96
METHYLENE CHLORIDE	1.9J	5	1.8
STYRENE	ND	5	.58
TETRACHLOROETHENE	ND	5	1.2
TOLUENE	ND	5	.92
TRANS-1,2-DICHLOROETHENE	ND	5	1.5
TRANS-1,3-DICHLOROPROPENE	ND	5	.45
TRICHLOROETHENE	ND	5	.9
VINYL ACETATE	ND	50	6.2
VINYL CHLORIDE	ND	5	1.7
XYLENES	ND	5	2.4

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	96	62-139
TOLUENE-D8	101	75-125
BROMOFLUOROBENZENE	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:	01/20/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	01/20/00
Batch No.	: 00A084	Date Extracted:	02/03/00 17:33
Sample ID:	18609-2682	Date Analyzed:	02/03/00 17:33
Lab Samp ID:	A084-02	Dilution Factor:	1000
Lab File ID:	RBV082	Matrix :	SOIL
Ext Btch ID:	VOB0501	% Moisture :	11.6
Calib. Ref.:	RBV071	Instrument ID :	T-001

PARAMETERS	RESULTS (ug/kg)	PRL (ug/kg)	MDL (ug/kg)
1,1,1-TRICHLOROETHANE	ND	5700	370
1,1,2,2-TETRACHLOROETHANE	ND	5700	370
1,1,2-TRICHLOROETHANE	ND	5700	260
1,1-DICHLOROETHANE	ND	5700	340
1,1-DICHLOROETHENE	ND	5700	610
1,2-DICHLOROETHANE	ND	5700	370
1,2-DICHLOROPROPANE	ND	5700	430
2-BUTANONE	ND	57000	5800
2-CHLOROETHYLVINYLETHER	ND	57000	190
2-HEXANONE	ND	57000	1400
4-METHYL-2-PENTANONE	ND	57000	1300
ACETONE	ND	57000	4600
BENZENE	ND	5700	280
BROMODICHLOROMETHANE	ND	5700	290
BROMOFORM	ND	5700	320
BROMOMETHANE	ND	5700	720
CARBON DISULFIDE	ND	5700	140
CARBON TETRACHLORIDE	ND	5700	890
CHLOROBENZENE	ND	5700	220
CHLOROETHANE	ND	5700	2000
CHLOROFORM	ND	5700	480
[illegible]ROMETHANE	ND	5700	2300
[illegible]-1,2-DICHLOROETHENE	ND	5700	330
CIS-1,3-DICHLOROPROPENE	ND	5700	250
DIBROMOCHLOROMETHANE	ND	5700	89
ETHYLBENZENE	ND	5700	440
MTBE	ND	11000	420
METHYLENE CHLORIDE	ND	5700	460
STYRENE	ND	5700	500
TETRACHLOROETHENE	ND	5700	270
TOLUENE	ND	5700	360
TRANS-1,2-DICHLOROETHENE	ND	5700	330
TRANS-1,3-DICHLOROPROPENE	ND	5700	750
TRICHLOROETHENE	ND	5700	290
VINYL ACETATE	ND	57000	810
VINYL CHLORIDE	ND	5700	1100
XYLENES	ND	5700	1200

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	90	52-149
TOLUENE-D8	101	65-135
BROMOFLUOROBENZENE	94	65-135

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:	01/20/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	01/20/00
Batch No.	: 00A084	Date Extracted:	02/03/00 18:07
Sample ID:	18609-2683	Date Analyzed:	02/03/00 18:07
Lab Samp ID:	A084-03	Dilution Factor:	1000
Lab File ID:	RBV083	Matrix :	SOIL
Ext Btch ID:	VOB0501	% Moisture :	11.1
Calib. Ref.:	RBV071	Instrument ID :	T-001

PARAMETERS	RESULTS (ug/kg)	PRL (ug/kg)	MDL (ug/kg)
1,1,1-TRICHLOROETHANE	ND	5600	370
1,1,2,2-TETRACHLOROETHANE	ND	5600	370
1,1,2-TRICHLOROETHANE	ND	5600	260
1,1-DICHLOROETHANE	ND	5600	340
1,1-DICHLOROETHENE	ND	5600	610
1,2-DICHLOROETHANE	ND	5600	370
1,2-DICHLOROPROPANE	ND	5600	420
2-BUTANONE	ND	56000	5800
2-CHLOROETHYLVINYLETHER	ND	56000	190
2-HEXANONE	ND	56000	1400
4-METHYL-2-PENTANONE	ND	56000	1300
ACETONE	ND	56000	4600
BENZENE	ND	5600	280
BROMODICHLOROMETHANE	ND	5600	290
BROMOFORM	ND	5600	310
BROMOMETHANE	ND	5600	720
CARBON DISULFIDE	ND	5600	140
CARBON TETRACHLORIDE	ND	5600	890
CHLOROBENZENE	ND	5600	220
CHLOROETHANE	ND	5600	2000
CHLOROFORM	ND	5600	480
CHLOROMETHANE	ND	5600	2300
CIS-1,2-DICHLOROETHENE	ND	5600	330
CIS-1,3-DICHLOROPROPENE	ND	5600	250
DIBROMOCHLOROMETHANE	ND	5600	89
ETHYLBENZENE	ND	5600	440
MTBE	ND	11000	420
METHYLENE CHLORIDE	ND	5600	460
STYRENE	ND	5600	490
TETRACHLOROETHENE	ND	5600	270
TOLUENE	ND	5600	350
TRANS-1,2-DICHLOROETHENE	ND	5600	320
TRANS-1,3-DICHLOROPROPENE	ND	5600	750
TRICHLOROETHENE	ND	5600	290
VINYL ACETATE	ND	56000	810
VINYL CHLORIDE	ND	5600	1100
XYLENES	ND	5600	1200

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	90	52-149
TOLUENE-D8	99	65-135
BROMOFLUOROBENZENE	91	65-135

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:	01/20/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	01/20/00
Batch No.	: 00A084	Date Extracted:	02/03/00 18:41
Sample ID:	18609-2684	Date Analyzed:	02/03/00 18:41
Lab Samp ID:	A084-04	Dilution Factor:	1000
Lab File ID:	RBV084	Matrix :	SOIL
Ext Btch ID:	VOB0501	% Moisture :	12.6
Calib. Ref.:	RBV071	Instrument ID :	T-001

PARAMETERS	RESULTS (ug/kg)	PRL (ug/kg)	MDL (ug/kg)
1,1,1-TRICHLOROETHANE	ND	5700	380
1,1,2,2-TETRACHLOROETHANE	ND	5700	380
1,1,2-TRICHLOROETHANE	ND	5700	270
1,1-DICHLOROETHANE	ND	5700	350
1,1-DICHLOROETHENE	ND	5700	620
1,2-DICHLOROETHANE	ND	5700	370
1,2-DICHLOROPROPANE	ND	5700	430
2-BUTANONE	ND	57000	5900
2-CHLOROETHYLVINYLETHER	ND	57000	190
2-HEXANONE	ND	57000	1400
4-METHYL-2-PENTANONE	ND	57000	1300
ACETONE	ND	57000	4700
BENZENE	ND	5700	280
BROMODICHLOROMETHANE	ND	5700	300
BROMOFORM	ND	5700	320
BROMOMETHANE	ND	5700	730
CARBON DISULFIDE	ND	5700	140
CARBON TETRACHLORIDE	ND	5700	910
CHLOROBENZENE	ND	5700	230
CHLOROETHANE	ND	5700	2000
CHLOROFORM	ND	5700	490
CHLOROMETHANE	ND	5700	2400
CIS-1,2-DICHLOROETHENE	ND	5700	330
CIS-1,3-DICHLOROPROPENE	ND	5700	250
DIBROMOCHLOROMETHANE	ND	5700	90
ETHYLBENZENE	ND	5700	450
MTBE	ND	11000	420
METHYLENE CHLORIDE	ND	5700	470
STYRENE	ND	5700	500
TETRACHLOROETHENE	ND	5700	280
TOLUENE	ND	5700	360
TRANS-1,2-DICHLOROETHENE	ND	5700	330
TRANS-1,3-DICHLOROPROPENE	ND	5700	760
TRICHLOROETHENE	ND	5700	290
VINYL ACETATE	ND	57000	820
VINYL CHLORIDE	ND	5700	1200
XYLENES	ND	5700	1200

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	94	52-149
TOLUENE-D8	101	65-135
BROMOFLUOROBENZENE	90	65-135

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:	01/20/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	01/20/00
Batch No.	: 00A084	Date Extracted:	02/03/00 19:15
Sample ID:	18609-2685	Date Analyzed:	02/03/00 19:15
Lab Samp ID:	A084-05	Dilution Factor:	1000
Lab File ID:	RBV085	Matrix :	SOIL
Ext Btch ID:	VOB0501	% Moisture :	6.8
Calib. Ref.:	RBV071	Instrument ID :	T-001

PARAMETERS	RESULTS (ug/kg)	PRL (ug/kg)	MDL (ug/kg)
1,1,1-TRICHLOROETHANE	ND	5400	360
1,1,2,2-TETRACHLOROETHANE	ND	5400	360
1,1,2-TRICHLOROETHANE	ND	5400	250
1,1-DICHLOROETHANE	ND	5400	330
1,1-DICHLOROETHENE	ND	5400	580
1,2-DICHLOROETHANE	ND	5400	350
1,2-DICHLOROPROPANE	ND	5400	400
2-BUTANONE	ND	54000	5500
2-CHLOROETHYLVINYLETHER	ND	54000	180
2-HEXANONE	ND	54000	1300
4-METHYL-2-PENTANONE	ND	54000	1200
ACETONE	ND	54000	4400
BENZENE	ND	5400	270
BROMODICHLOROMETHANE	ND	5400	280
BROMOFORM	ND	5400	300
BROMOMETHANE	ND	5400	690
CARBON DISULFIDE	ND	5400	140
CARBON TETRACHLORIDE	ND	5400	850
CHLOROBENZENE	ND	5400	210
CHLOROETHANE	ND	5400	1900
CHLOROFORM	ND	5400	450
CHLOROMETHANE	ND	5400	2200
CIS-1,2-DICHLOROETHENE	ND	5400	310
CIS-1,3-DICHLOROPROPENE	ND	5400	240
DIBROMOCHLOROMETHANE	ND	5400	85
ETHYLBENZENE	ND	5400	420
MTBE	ND	11000	400
METHYLENE CHLORIDE	ND	5400	440
STYRENE	ND	5400	470
TETRACHLOROETHENE	ND	5400	260
TOLUENE	ND	5400	340
TRANS-1,2-DICHLOROETHENE	ND	5400	310
TRANS-1,3-DICHLOROPROPENE	ND	5400	710
TRICHLOROETHENE	ND	5400	270
VINYL ACETATE	ND	54000	770
VINYL CHLORIDE	ND	5400	1100
XYLENES	ND	5400	1200

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	88	52-149
TOLUENE-D8	99	65-135
BROMOFLUOROBENZENE	90	65-135

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:	01/20/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	01/20/00
Batch No.	: 00A084	Date Extracted:	02/03/00 19:49
Sample ID:	18609-2686	Date Analyzed:	02/03/00 19:49
Lab Samp ID:	A084-06	Dilution Factor:	1000
Lab File ID:	RBV086	Matrix :	SOIL
Ext Btch ID:	VOB0501	% Moisture :	22.3
Calib. Ref.:	RBV071	Instrument ID :	T-001

PARAMETERS	RESULTS (ug/kg)	PRL (ug/kg)	MDL (ug/kg)
1,1,1-TRICHLOROETHANE	ND	6400	430
1,1,2,2-TETRACHLOROETHANE	ND	6400	430
1,1,2-TRICHLOROETHANE	ND	6400	300
1,1-DICHLOROETHANE	ND	6400	390
1,1-DICHLOROETHENE	ND	6400	690
1,2-DICHLOROETHANE	ND	6400	420
1,2-DICHLOROPROPANE	ND	6400	480
2-BUTANONE	ND	64000	6600
2-CHLOROETHYLVINYLETHER	ND	64000	220
2-HEXANONE	ND	64000	1600
4-METHYL-2-PENTANONE	ND	64000	1500
ACETONE	ND	64000	5300
BENZENE	ND	6400	320
BROMODICHLOROMETHANE	ND	6400	330
BROMOFORM	ND	6400	360
BROMOMETHANE	ND	6400	820
CARBON DISULFIDE	ND	6400	160
CARBON TETRACHLORIDE	ND	6400	1000
CHLOROBENZENE	ND	6400	250
CHLOROETHANE	ND	6400	2300
CHLOROFORM	ND	6400	550
CHLOROMETHANE	ND	6400	2600
CIS-1,2-DICHLOROETHENE	ND	6400	370
CIS-1,3-DICHLOROPROPENE	ND	6400	290
DIBROMOCHLOROMETHANE	ND	6400	100
ETHYLBENZENE	ND	6400	500
MTBE	ND	13000	480
METHYLENE CHLORIDE	ND	6400	530
STYRENE	ND	6400	560
TETRACHLOROETHENE	ND	6400	310
TOLUENE	ND	6400	400
TRANS-1,2-DICHLOROETHENE	ND	6400	370
TRANS-1,3-DICHLOROPROPENE	ND	6400	860
TRICHLOROETHENE	ND	6400	330
VINYL ACETATE	ND	64000	920
VINYL CHLORIDE	ND	6400	1300
XYLENES	ND	6400	1400

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	93	52-149
TOLUENE-D8	102	65-135
BROMOFLUOROBENZENE	94	65-135

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:	01/20/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	01/20/00
Batch No.	: 00A084	Date Extracted:	02/03/00 20:23
Sample ID:	18609-2687	Date Analyzed:	02/03/00 20:23
Lab Samp ID:	A084-07	Dilution Factor:	1000
Lab File ID:	RBV087	Matrix :	SOIL
Ext Btch ID:	VOB0501	% Moisture :	13.6
Calib. Ref.:	RBV071	Instrument ID :	T-001

PARAMETERS	RESULTS (ug/kg)	PRL (ug/kg)	MDL (ug/kg)
1,1,1-TRICHLOROETHANE	ND	5800	380
1,1,2,2-TETRACHLOROETHANE	ND	5800	380
1,1,2-TRICHLOROETHANE	ND	5800	270
1,1-DICHLOROETHANE	ND	5800	350
1,1-DICHLOROETHENE	ND	5800	620
1,2-DICHLOROETHANE	ND	5800	380
1,2-DICHLOROPROPANE	ND	5800	440
2-BUTANONE	ND	58000	5900
2-CHLOROETHYLVINYLETHER	ND	58000	200
2-HEXANONE	ND	58000	1400
4-METHYL-2-PENTANONE	ND	58000	1300
ACETONE	ND	58000	4700
BENZENE	ND	5800	290
BROMODICHLOROMETHANE	ND	5800	300
BROMOFORM	ND	5800	320
BROMOMETHANE	ND	5800	740
CARBON DISULFIDE	ND	5800	150
CARBON TETRACHLORIDE	ND	5800	920
CHLOROBENZENE	ND	5800	230
CHLOROETHANE	ND	5800	2100
CHLOROFORM	ND	5800	490
CHLOROMETHANE	ND	5800	2400
CIS-1,2-DICHLOROETHENE	ND	5800	340
CIS-1,3-DICHLOROPROPENE	ND	5800	260
DIBROMOCHLOROMETHANE	ND	5800	91
ETHYLBENZENE	ND	5800	450
MTBE	ND	12000	430
METHYLENE CHLORIDE	ND	5800	470
STYRENE	ND	5800	510
TETRACHLOROETHENE	ND	5800	280
TOLUENE	ND	5800	360
TRANS-1,2-DICHLOROETHENE	ND	5800	330
TRANS-1,3-DICHLOROPROPENE	ND	5800	770
TRICHLOROETHENE	ND	5800	300
VINYL ACETATE	ND	58000	830
VINYL CHLORIDE	ND	5800	1200
XYLENES	ND	5800	1300

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	92	52-149
TOLUENE-D8	103	65-135
BROMOFLUOROBENZENE	92	65-135

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:	01/20/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	01/20/00
Batch No.	: 00A084	Date Extracted:	02/03/00 04:32
Sample ID:	18609-2688	Date Analyzed:	02/03/00 04:32
Lab Samp ID:	A084-08	Dilution Factor:	1
Lab File ID:	RBV059	Matrix	: WATER
Ext Btch ID:	VOB0401	% Moisture	: NA
Calib. Ref.:	RBV050	Instrument ID	: T-001

PARAMETERS	RESULTS (ug/L)	PRL (ug/L)	MDL (ug/L)
1,1,1-TRICHLOROETHANE	ND	5	1.1
1,1,2,2-TETRACHLOROETHANE	ND	5	.49
1,1,2-TRICHLOROETHANE	ND	5	.52
1,1-DICHLOROETHANE	ND	5	1.2
1,1-DICHLOROETHENE	ND	5	2
1,2-DICHLOROETHANE	ND	5	.58
1,2-DICHLOROPROPANE	ND	5	.53
2-BUTANONE	ND	50	7.9
2-CHLOROETHYLVINYLETHER	ND	50	.83
2-HEXANONE	ND	50	1
4-METHYL-2-PENTANONE	ND	50	1
ACETONE	ND	50	10
BENZENE	ND	5	.85
BROMODICHLOROMETHANE	ND	5	.33
BROMOFORM	ND	5	.29
BROMOMETHANE	ND	5	1.5
CARBON DISULFIDE	ND	5	1.3
CARBON TETRACHLORIDE	ND	5	1.3
CHLOROBENZENE	ND	5	.68
CHLOROETHANE	ND	5	2.9
CHLOROFORM	ND	5	.85
CHLOROMETHANE	ND	5	1.7
CIS-1,2-DICHLOROETHENE	ND	5	.97
CIS-1,3-DICHLOROPROPENE	ND	5	.47
DIBROMOCHLOROMETHANE	ND	5	.29
ETHYLBENZENE	ND	5	.72
MTBE	ND	10	.96
METHYLENE CHLORIDE	ND	5	1.8
STYRENE	ND	5	.58
TETRACHLOROETHENE	ND	5	1.2
TOLUENE	ND	5	.92
TRANS-1,2-DICHLOROETHENE	ND	5	1.5
TRANS-1,3-DICHLOROPROPENE	ND	5	.45
TRICHLOROETHENE	ND	5	.9
VINYL ACETATE	ND	50	6.2
VINYL CHLORIDE	ND	5	1.7
XYLENES	ND	5	2.4

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	89	62-139
TOLUENE-D8	99	75-125
BROMOFLUOROBENZENE	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:	02/03/00
Batch No.	: 00A084	Date Extracted:	02/03/00 01:41
Sample ID:	MBLK1W	Date Analyzed:	02/03/00 01:41
Lab Samp ID:	VOB0401Q	Dilution Factor:	1
Lab File ID:	RBV054	Matrix :	WATER
Ext Btch ID:	VOB0401	% Moisture :	NA
Calib. Ref.:	RBV050	Instrument ID :	T-001

PARAMETERS	RESULTS (ug/L)	PRL (ug/L)	MDL (ug/L)
1,1,1-TRICHLOROETHANE	ND	5	1.1
1,1,2,2-TETRACHLOROETHANE	ND	5	.49
1,1,2-TRICHLOROETHANE	ND	5	.52
1,1-DICHLOROETHANE	ND	5	1.2
1,1-DICHLOROETHENE	ND	5	2
1,2-DICHLOROETHANE	ND	5	.58
1,2-DICHLOROPROPANE	ND	5	.53
2-BUTANONE	ND	50	7.9
2-CHLOROETHYLVINYLETHER	ND	50	.83
2-HEXANONE	ND	50	1
4-METHYL-2-PENTANONE	ND	50	1
ACETONE	ND	50	10
BENZENE	ND	5	.85
BROMODICHLOROMETHANE	ND	5	.33
BROMOFORM	ND	5	.29
BROMOMETHANE	ND	5	1.5
CARBON DISULFIDE	ND	5	1.3
CARBON TETRACHLORIDE	ND	5	1.3
CHLOROBENZENE	ND	5	.68
CHLOROETHANE	ND	5	2.9
CHLOROFORM	ND	5	.85
CHLOROMETHANE	ND	5	1.7
CIS-1,2-DICHLOROETHENE	ND	5	.97
CIS-1,3-DICHLOROPROPENE	ND	5	.47
DIBROMOCHLOROMETHANE	ND	5	.29
ETHYLBENZENE	ND	5	.72
MTBE	ND	10	.96
METHYLENE CHLORIDE	ND	5	1.8
STYRENE	ND	5	.58
TETRACHLOROETHENE	ND	5	1.2
TOLUENE	ND	5	.92
TRANS-1,2-DICHLOROETHENE	ND	5	1.5
TRANS-1,3-DICHLOROPROPENE	ND	5	.45
TRICHLOROETHENE	ND	5	.9
VINYL ACETATE	ND	50	6.2
VINYL CHLORIDE	ND	5	1.7
XYLENES	ND	5	2.4

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	94	62-139
TOLUENE-D8	103	75-125
BROMOFLUOROBENZENE	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:	NA
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	02/03/00
Batch No.	: 00A084	Date Extracted:	02/03/00 13:35
Sample ID:	MBLK1S	Date Analyzed:	02/03/00 13:35
Lab Samp ID:	V0B0501Q	Dilution Factor:	1
Lab File ID:	RBV075	Matrix :	SOIL
Ext Btch ID:	V0B0501	% Moisture :	NA
Calib. Ref.:	RBV071	Instrument ID :	T-001

PARAMETERS	RESULTS (ug/kg)	PRL (ug/kg)	MDL (ug/kg)
1,1,1-TRICHLOROETHANE	ND	5	.33
1,1,2,2-TETRACHLOROETHANE	ND	5	.33
1,1,2-TRICHLOROETHANE	ND	5	.23
1,1-DICHLOROETHANE	ND	5	.3
1,1-DICHLOROETHENE	ND	5	.54
1,2-DICHLOROETHANE	ND	5	.33
1,2-DICHLOROPROPANE	ND	5	.38
2-BUTANONE	ND	50	5.1
2-CHLOROETHYLVINYLETHER	ND	50	.17
2-HEXANONE	ND	50	1.2
4-METHYL-2-PENTANONE	ND	50	1.1
ACETONE	ND	50	4.1
BENZENE	ND	5	.25
BROMODICHLOROMETHANE	ND	5	.26
BROMOFORM	ND	5	.28
BROMOMETHANE	ND	5	.64
CARBON DISULFIDE	ND	5	.13
CARBON TETRACHLORIDE	ND	5	.79
CHLOROBENZENE	ND	5	.2
CHLOROETHANE	ND	5	1.8
CHLOROFORM	ND	5	.42
CHLOROMETHANE	ND	5	2.1
CIS-1,2-DICHLOROETHENE	ND	5	.29
CIS-1,3-DICHLOROPROPENE	ND	5	.22
DIBROMOCHLOROMETHANE	ND	5	.079
ETHYLBENZENE	ND	5	.39
MTBE	ND	10	.37
METHYLENE CHLORIDE	ND	5	.41
STYRENE	ND	5	.44
TETRACHLOROETHENE	ND	5	.24
TOLUENE	ND	5	.31
TRANS-1,2-DICHLOROETHENE	ND	5	.29
TRANS-1,3-DICHLOROPROPENE	ND	5	.67
TRICHLOROETHENE	ND	5	.25
VINYL ACETATE	ND	50	.72
VINYL CHLORIDE	ND	5	1
XYLENES	ND	5	1.1

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	91	52-149
TOLUENE-D8	103	65-135
BROMOFLUOROBENZENE	95	65-135

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:	02/03/00
Batch No.	: 00A084	Date Extracted:	02/03/00 13:35
Sample ID:	MBLK2W	Date Analyzed:	02/03/00 13:35
Lab Samp ID:	VOB0501Q	Dilution Factor:	1
Lab File ID:	RBV075	Matrix :	WATER
Ext Btch ID:	VOB0501	% Moisture :	NA
Calib. Ref.:	RBV071	Instrument ID :	T-001

PARAMETERS	RESULTS (ug/L)	PRL (ug/L)	MDL (ug/L)
1,1,1-TRICHLOROETHANE	ND	5	1.1
1,1,2,2-TETRACHLOROETHANE	ND	5	.49
1,1,2-TRICHLOROETHANE	ND	5	.52
1,1-DICHLOROETHANE	ND	5	1.2
1,1-DICHLOROETHENE	ND	5	2
1,2-DICHLOROETHANE	ND	5	.58
1,2-DICHLOROPROPANE	ND	5	.53
2-BUTANONE	ND	50	7.9
2-CHLOROETHYLVINYLETHER	ND	50	.83
2-HEXANONE	ND	50	1
4-METHYL-2-PENTANONE	ND	50	1
ACETONE	ND	50	10
BENZENE	ND	5	.85
BROMODICHLOROMETHANE	ND	5	.33
BROMOFORM	ND	5	.29
BROMOMETHANE	ND	5	1.5
CARBON DISULFIDE	ND	5	1.3
CARBON TETRACHLORIDE	ND	5	1.3
CHLOROBENZENE	ND	5	.68
CHLOROETHANE	ND	5	2.9
CHLOROFORM	ND	5	.85
CHLOROMETHANE	ND	5	1.7
CIS-1,2-DICHLOROETHENE	ND	5	.97
CIS-1,3-DICHLOROPROPENE	ND	5	.47
DIBROMOCHLOROMETHANE	ND	5	.29
ETHYLBENZENE	ND	5	.72
MTBE	ND	10	.96
METHYLENE CHLORIDE	ND	5	1.8
STYRENE	ND	5	.58
TETRACHLOROETHENE	ND	5	1.2
TOLUENE	ND	5	.92
TRANS-1,2-DICHLOROETHENE	ND	5	1.5
TRANS-1,3-DICHLOROPROPENE	ND	5	.45
TRICHLOROETHENE	ND	5	.9
VINYL ACETATE	ND	50	6.2
VINYL CHLORIDE	ND	5	1.7
XYLENES	ND	5	2.4

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	91	62-139
TOLUENE-D8	103	75-125
BROMOFLUOROBENZENE	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

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
BATCH NO.: 00A084
METHOD: METHOD 5030A/8260A

MATRIX: WATER % MOISTURE: NA

DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK1W				
LAB SAMP ID:	VOB0401Q	VOB0401L	VOB0401C		
LAB FILE ID:	RBV054	RBV051	RBV052		
DATE EXTRACTED:	02/03/0001:41	02/02/0023:59	02/03/0000:33	DATE COLLECTED:	NA
DATE ANALYZED:	02/03/0001:41	02/02/0023:59	02/03/0000:33	DATE RECEIVED:	02/03/00
PREP. BATCH:	VOB0401	VOB0401	VOB0401		
CALIB. REF:	RBV050	RBV050	RBV050		

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	22	110	20	21.4	107	3	75-125	20
Benzene	ND	20	21.3	106	20	21.4	107	1	75-125	20
Chlorobenzene	ND	20	20.9	105	20	21.5	108	3	75-125	20
Toluene	ND	20	21.8	109	20	21.1	106	3	74-125	20
Trichloroethene	ND	20	28.6	143*	20	22.4	112	24*	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	46.1	92	50	47	94	62-139
Toluene-d8	50	51.5	103	50	50.8	102	75-125
Bromofluorobenzene	50	50	100	50	49.2	98	75-125

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
BATCH NO.: 00A084
METHOD: METHOD 5030A/8260A

MATRIX:	SOIL			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK1S				
LAB SAMP ID:	VOB0501Q	VOB0501L	VOB0501C		
LAB FILE ID:	RBV075	RBV072	RBV073		
DATE EXTRACTED:	02/03/0013:35	02/03/0011:53	02/03/0012:27	DATE COLLECTED:	NA
DATE ANALYZED:	02/03/0013:35	02/03/0011:53	02/03/0012:27	DATE RECEIVED:	02/03/00
PREP. BATCH:	VOB0501	VOB0501	VOB0501		
CALIB. REF:	RBV071	RBV071	RBV071		

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
1,1-Dichloroethene	ND	20	20.5	102	20	20.3	101	1	65-135	30
Benzene	ND	20	21.5	108	20	21.6	108	0	65-135	30
Chlorobenzene	ND	20	21.8	109	20	21.6	108	1	65-135	30
Toluene	ND	20	21.8	109	20	22	110	1	64-135	30
Trichloroethene	ND	20	20.5	102	20	20.5	102	0	61-135	30

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT (%)
1,2-Dichlorethane-d4	50	46.9	94	50	48.5	97	52-149
Toluene-d8	50	49.9	100	50	51.5	103	65-135
Bromofluorobenzene	50	47.4	95	50	49.2	98	65-135

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
LOT NO.: 00A084
METHOD: METHOD 5030A/8260A

MATRIX:	WATER			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK2W				
LAB SAMP ID:	VOB0501Q	VOB0501L	VOB0501C		
LAB FILE ID:	RBV075	RBV072	RBV073		
DATE EXTRACTED:	02/03/0013:35	02/03/0011:53	02/03/0012:27	DATE COLLECTED:	NA
DATE ANALYZED:	02/03/0013:35	02/03/0011:53	02/03/0012:27	DATE RECEIVED:	02/03/00
PREP. BATCH:	VOB0501	VOB0501	VOB0501		
CALIB. REF:	RBV071	RBV071	RBV071		

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	20.5	102	20	20.3	101	1	75-125	20
Benzene	ND	20	21.5	108	20	21.6	108	0	75-125	20
Chlorobenzene	ND	20	21.8	109	20	21.6	108	1	75-125	20
Toluene	ND	20	21.8	109	20	22	110	1	74-125	20
Trichloroethene	ND	20	20.5	102	20	20.5	102	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	46.9	94	50	48.5	97	62-139
Toluene-d8	50	49.9	100	50	51.5	103	75-125
Bromofluorobenzene	50	47.4	95	50	49.2	98	75-125

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

Date: 02-23-2000
EMAX Batch No.: 00A084A

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 01/20/00 and requested on 02/03/00. The data reported include :

Sample ID	Control #	Col Date	Matrix	Analysis
18609-2683	A084-03	01/20/00	Soil	SPLP TPH-Gas
18609-2684	A084-04	01/20/00	Soil	SPLP M8015
18609-2685	A084-05	01/20/00	Soil	SPLP M8015
				SPLP TPH-Gas
18609-2686	A084-06	01/20/00	Soil	SPLP TPH-Gas
				SPLP M8015
18609-2687	A084-07	01/20/00	Soil	SPLP M8015
				SPLP TPH-Gas

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

METHO[illegible]P/M8015
TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

Client : IT CORPORATION
Project : MCAS EL TORO/18609/D.O. 70
Batch No. : 00A084A

Matrix : WATER
Instrument ID : GCT019

SAMPLE ID	EMAX SAMPLE ID	RESULTS (mg/L)	SUR1 (%)	SUR2 (%)	DLF	MOIST	PQL (mg/L)	MDL (mg/L)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1W	DSB011WB	ND	81	91	1	NA	.1	.038	02/09/0008:25	02/08/0017:00	TB03071A	TB03069A	DSB011W	NA	02/08/00
LCS1W	DSB011WL	4.88	91	87	1	NA	.1	.038	02/09/0009:02	02/08/0017:00	TB03072A	TB03069A	DSB011W	NA	02/08/00
LCD1W	DSB011WC	4.94	87	87	1	NA	.1	.038	02/09/0009:39	02/08/0017:00	TB03073A	TB03069A	DSB011W	NA	02/08/00
MBLK2W	TXB003SB	ND	75	90	1	NA	.1	.038	02/09/0010:17	02/08/0017:00	TB03074A	TB03069A	DSB011W	NA	02/08/00
18609-2684	A084-04	37	86	121	5	NA	.5	.19	02/09/0017:10	02/08/0017:00	TB03085A	TB03081A	DSB011W	01/20/00	01/20/00
18609-2685	A084-05	7.3	82	105	1	NA	.1	.038	02/09/0013:25	02/08/0017:00	TB03079A	TB03069A	DSB011W	01/20/00	01/20/00
18609-2686	A084-06	3.8	84	94	1	NA	.1	.038	02/09/0014:02	02/08/0017:00	TB03080A	TB03069A	DSB011W	01/20/00	01/20/00
18609-2687	A084-07	4.3	88	94	1	NA	.1	.038	02/09/0015:55	02/08/0017:00	TB03083A	TB03081A	DSB011W	01/20/00	01/20/00

PQL : Project Quantitation Limit
SURR1 : Bromobenzene 65-135 60-140
SURR2 : Hexacosane 60-140 55-150
H-C RANGE: C7 -C18 = JP5
C10-C24 = Diesel
C18-C34 = Motor Oil
C6 -C12 = Gas

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

:LIENT: IT CORPORATION
'ROJECT: MCAS EL TORO/18609/D.O. 70
IATCH NO.: 00A084A
IETHOD: METHOD SW1312/M8015

IATRIX:	WATER			% MOISTURE:	NA
IILUTION FACTOR:	1	1	1		
;AMPLE ID:	MBLK1W				
.AB SAMP ID:	DSB011WB	DSB011WL	DSB011WC		
.AB FILE ID:	TB03071A	TB03072A	TB03073A		
IATE EXTRACTED:	02/08/0017:00	02/08/0017:00	02/08/0017:00	DATE COLLECTED:	NA
IATE ANALYZED:	02/09/0008:25	02/09/0009:02	02/09/0009:39	DATE RECEIVED:	02/08/00
'REP. BATCH:	DSB011W	DSB011W	DSB011W		
:ALIB. REF:	TB03069A	TB03069A	TB03069A		

.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 (%)
iesel	ND	5	4.88	98	5	4.94	99	1	61-143	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 (%)
·romobenzene	1	.906	91	1	.867	87	65-135
exacosane	1	.875	87	1	.874	87	60-140

METHOD SW M8015
TOTAL PETROLEUM HYDROC NS BY PURGE & TRAP

Client : IT CORPORATION
Project : MCAS EL TORO/18609/D.O. 70
Batch No. : 00A084A

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	VAB0739B	ND	66	1	NA	.1	.018	02/05/0007:34	02/05/0007:34	EB02027A	EB02026A	VAB0739	NA	02/05/00
LCS1W	VAB0739L	1.22	80	1	NA	.1	.018	02/05/0008:09	02/05/0008:09	EB02028A	EB02026A	VAB0739	NA	02/05/00
LCD1W	VAB0739C	1.21	83	1	NA	.1	.018	02/05/0008:44	02/05/0008:44	EB02029A	EB02026A	VAB0739	NA	02/05/00
MBLK2W	TVB006SB	ND	70	1	NA	.1	.018	02/05/0014:40	02/05/0014:40	EB02039A	EB02038A	VAB0739	NA	02/05/00
18609-2683	A084-03	3.5*	83	1	NA	.1	.018	02/05/0012:53	02/05/0012:53	EB02036A	EB02026A	VAB0739	01/20/00	01/20/00
18609-2685	A084-05	3.2*	77	1	NA	.1	.018	02/05/0016:27	02/05/0016:27	EB02042A	EB02038A	VAB0739	01/20/00	01/20/00
18609-2686	A084-06	2.9*	78	1	NA	.1	.018	02/05/0017:02	02/05/0017:02	EB02043A	EB02038A	VAB0739	01/20/00	01/20/00
18609-2686MS	A084-06M	4*	90	1	NA	.1	.018	02/05/0017:37	02/05/0017:37	EB02044A	EB02038A	VAB0739	01/20/00	01/20/00
18609-2686MSD	A084-06S	3.9*	90	1	NA	.1	.018	02/05/0018:13	02/05/0018:13	EB02045A	EB02038A	VAB0739	01/20/00	01/20/00
18609-2687	A084-07	2.9*	94	1	NA	.1	.018	02/05/0015:16	02/05/0015:16	EB02040A	EB02038A	VAB0739	01/20/00	01/20/00

SURR : Bromofluorobenzene
PRL : Reporting Limit
E : Value exceed the upper level of the initial calibration
D : Value from dilution
* : Chromatograms exhibit pattern of heavier HC.
Extraction Date: 02/04/00 13:00

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
BATCH NO.: 00A084A
METHOD: METHOD SW1312/M8015

MATRIX:	WATER			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK1W				
LAB SAMP ID:	VAB0739B	VAB0739L	VAB0739C		
LAB FILE ID:	EB02027A	EB02028A	EB02029A		
DATE EXTRACTED:	02/05/0007:34	02/05/0008:09	02/05/0008:44	DATE COLLECTED:	NA
DATE ANALYZED:	02/05/0007:34	02/05/0008:09	02/05/0008:44	DATE RECEIVED:	02/05/00
PREP. BATCH:	VAB0739	VAB0739	VAB0739		
CALIB. REF:	EB02026A	EB02026A	EB02026A		

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	1.1	1.22	111	1.1	1.21	110	1	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	.05	.0401	80	.05	.0413	83	65-135

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

IENT: IT CORPORATION
: MCAS EL TORO/18609/D.O. 70
NO.: 00A084A
THOD: METHOD SW1312/M8015

TRIX: WATER % MOISTURE: NA

LUTION FACTOR:	1	1	1		
MPLE ID:	18609-2686				
B SAMP ID:	A084-06	A084-06M	A084-06S		
B FILE ID:	EB02043A	EB02044A	EB02045A		
TE EXTRACTED:	02/05/0017:02	02/05/0017:37	02/05/0018:13	DATE COLLECTED:	01/20/00
TE ANALYZED:	02/05/0017:02	02/05/0017:37	02/05/0018:13	DATE RECEIVED:	01/20/00
EP. BATCH:	VAB0739	VAB0739	VAB0739		
LIB. REF:	EB02038A	EB02038A	EB02038A		

CESSION:

RAMETER	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 (%)
soline	2.86	1.1	4	104	1.1	3.9	94	3	67-136	30

RROGATE PARAMETER	SPIKE AMT (mg/L)	MS RSLT (mg/L)	MS % REC	SPIKE AMT (mg/L)	MSD RSLT (mg/L)	MSD % REC	QC LIMIT (%)
omofluorobenzene	.05	.0452	90	.05	.0451	90	65-135

[illegible]

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 12079

UST 398 - Confirmation Drilling

FORM 0019 REV. 9-99

LAB COORDINATOR: M. Concepcion	LAB COORDINATOR'S PHONE: 949-660-7550	LAB COORDINATOR'S FAX: 949-475-5433	LABORATORY SERVICE ID: 9216	LABORATORY CONTACT: EMAX	MAIL REPORT (COMPANY NAME): IT Group
PROJECT NAME: UST 398-C.B.	PROJECT LOCATION: MCAS El Toro, CA	PROJECT NUMBER: 918609	LABORATORY PHONE: 310-618-8889	LABORATORY FAX: 310-618-0818	RECIPIENT NAME: Dwayne Ishida
PROJECT CONTACT: M. Concepcion	PROJECT PHONE NUMBER: 949-451-1667	PROJECT FAX: 949-451-1672	LABORATORY ADDRESS: 630 Maple Ave.		ADDRESS: 3347 Michelson # 200
PROJECT ADDRESS: —	CITY, STATE AND ZIP CODE: —	CLIENT: SWDIV	CITY, STATE AND ZIP CODE: Torrance, CA		CITY, STATE AND ZIP CODE: Irvine, CA ~~92606~~ 92612
PROJECT MANAGER: B. Sedlak	PROJECT MANAGER'S PHONE: 949-660-5446	PROJECT MANAGER'S FAX: 949-474-8309			

Analyze at the "x"

Item	Sample Identifier	Matrix	Date (2000)	Time	Preserved	# of Cont.	QC Level	T.A.T.	Analyses: 8260	8015-gas	8015-Diesel	8015-JP-5					Comments
	18609-3343	W	7-31	0930	4°C	2	3	~~5~~ 24 hr	X								
	18609-3344	S	7-31	1040	4°C	1	3	24hr	X	X	X	X					
	18609-3345	S	7-31	1045	4°C	1	3	24hr									
	18609-3346	S	7-31	1055	4°C	1	3	24hr									
	18609-3347	S	7-31	1115	4°C	1	3	24hr									
	18609-3348	S	7-31	1120	4°C	1	4	24hr									
	18609-3349	S	7-31	1225	4°C	1	3	24hr									
	18609-3350	S	7-31	1230	4°C	1	3	24hr									
	18609-3351	S	7-31	1240	4°C	1	3	24hr									
	~~18609~~ VJ.																

SAMPLES COLLECTED BY: N. Jefferson

COURIER AND AIR BILL NUMBER: Courier

COOLER TEMPERATURE UPON RECEIPT:

RELINQUISHED BY	RECEIVED BY	DATE	TIME	SAMPLE'S CONDITION UPON RECEIPT
[signature]	[signature]	7-31-00	3:35	

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

~~UST~~ TE 398 - Confirmating Drilling

Sample Point Location	Sample Type: G	C	F	QC
(1) Trip Blank	X			X
(2) 398-SCB-10 @ 5.0-5.5' bgs	X			
(3) 398-SCB-10 @ 10.0'-10.5' bgs	X			
(4) 398-SCB-10 @ 20.0'-20.5' bgs	X			
(5) 398-SCB-10 @ 40.0'-40.5 bgs	X			
(6) 398-SCB-10 @ ~~40~~ (Dup) 39.5-40.0' bgs	X			X
(7) 398-SCB-02 @ 5.0-5.5' bgs	X			
(8) 398-SCB-02 @ 10.0-10.5' bgs	X			
(9) 398-SCB-02 @ 30.0'-30.5' bgs	X			

Comments: due ~~8/7/00~~ 8/2/00 rec'd 8/4/00

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

[redacted]

COMPLETED 4-4-00 by phl

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 12080

UST 398 - Confirmation Drilling

FORM 0019 REV. 9-99

LAB COORDINATOR: A. Concepcion	LAB COORDINATOR'S PHONE: 949-660-7550	LAB COORDINATOR'S FAX: 949-475-5433	LABORATORY SERVICE ID: 00G216	LABORATORY CONTACT: EMAX	MAIL REPORT (COMPANY NAME): IT Group
PROJECT NAME: UST 398 - C.B.	PROJECT LOCATION: MCAS El Toro, CA	PROJECT NUMBER: 918609	LABORATORY PHONE: 310-618-8889	LABORATORY FAX: 310-618-0818	RECIPIENT NAME: Duwayne Ishida
PROJECT CONTACT: M. Concepcion	PROJECT PHONE NUMBER: 949-451-1667	PROJECT FAX: 949-451-1672	LABORATORY ADDRESS: 630 Maple Ave.	ADDRESS: 3347 Michelson #200	
PROJECT ADDRESS:	CITY, STATE AND ZIP CODE:	CLIENT: SWDIV	CITY, STATE AND ZIP CODE: Torrance, CA	CITY, STATE AND ZIP CODE: Irvine CA, 92612	
PROJECT MANAGER: B. Sedlak	PROJECT MANAGER'S PHONE: 949-660-5446	PROJECT MANAGER'S FAX: 949-474-8309			

Item	Sample Identifier	Matrix	Date	Time	Preserved	# of Cont.	QC Level	T.A.T.	Analyses 8260	8015-gas	8015-DRO	8015-JP-5	Comments
	18609-3352	S	7-31	1350	4°C	1	3	24hr	X	X	X	X	
	18609-3353			1355			3						
	18609-3354			1400			3						
	18609-3355			1405			3						
	18609-3356			1410			4						
	18609-3357			1430			3						
	18609-3358			1440			3						
	18609-3359			1500			3						
	18609-3360			1505			3						
	18609-3361	W		1515		6	3						

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
[signature]	[signature]	7-31-00	3:35	

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
~~UST~~ 398 Confirmation Drilling

Sample Point Location	Sample Type G	C	F	QC
① 398-SCB-28 @ 5.0'-5.5' bgs	X			
② 398-SCB-28 @ 10.5'-11.0' bgs	X			
③ 398-SCB-28 @ 20.0'-20.5' bgs	X			
④ 398-SCB-28 @ 30.0'-30.5' bgs	X			
⑤ 398-SCB-28 @ 39.5'-30.0' (Dup)	X			X
⑥ 398-SCB-28 @ 5.0'-5.5' bgs	X			
⑦ 398-SCB-11 @ 10.0'-10.5' bgs	X			
⑧ 398-SCB-11 20.0'-20.5' bgs	X			
⑨ 398-SCB-11 40.0'-40.5' bgs				
~~⑩ 398-CB-11 W.S.~~ Equipment Rinsate	X			X

Comments: due 8/2/00 rec'd 8/4/00

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

5170A

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

Date: 08-07-2000
EMAX Batch No.: 00G216

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 07/31/00. The data reported include :

Sample ID	Control #	Col Date	Matrix	Analysis
18609-3343	G216-01	07/31/00	WATER	VOLATILE ORGANICS BY GC/MS
18609-3344	G216-02	07/31/00	SOIL	TPH DIESEL
				TPH GASOLINE
				VOLATILE ORGANICS BY GC/MS
				TPH JP-5
18609-3345	G216-03	07/31/00	SOIL	TPH DIESEL
				TPH GASOLINE
				VOLATILE ORGANICS BY GC/MS
				TPH JP-5
18609-3346	G216-04	07/31/00	SOIL	TPH DIESEL
				TPH GASOLINE
				VOLATILE ORGANICS BY GC/MS
				TPH JP-5
18609-3347	G216-05	07/31/00	SOIL	TPH DIESEL
				TPH GASOLINE
				VOLATILE ORGANICS BY GC/MS
				TPH JP-5
18609-3348	G216-06	07/31/00	SOIL	TPH DIESEL
				TPH GASOLINE

Sample ID	Control #	Col Date	Matrix	Analysis
				VOLATILE ORGANICS BY GC/MS
				TPH JP-5
18609-3349	G216-07	07/31/00	SOIL	TPH DIESEL
				TPH GASOLINE
				VOLATILE ORGANICS BY GC/MS
				TPH JP-5
18609-3350	G216-08	07/31/00	SOIL	TPH DIESEL
				TPH GASOLINE
				VOLATILE ORGANICS BY GC/MS
				TPH JP-5
18609-3351	G216-09	07/31/00	SOIL	TPH DIESEL
				TPH GASOLINE
				VOLATILE ORGANICS BY GC/MS
				TPH JP-5
18609-3352	G216-10	07/31/00	SOIL	TPH DIESEL
				TPH GASOLINE
				VOLATILE ORGANICS BY GC/MS
				TPH JP-5
18609-3353	G216-11	07/31/00	SOIL	TPH DIESEL
				TPH GASOLINE
				VOLATILE ORGANICS BY GC/MS
				TPH JP-5
18609-3354	G216-12	07/31/00	SOIL	TPH DIESEL
				TPH GASOLINE
				VOLATILE ORGANICS BY GC/MS
				TPH JP-5
18609-3355	G216-13	07/31/00	SOIL	TPH DIESEL
				TPH GASOLINE
				VOLATILE ORGANICS BY GC/MS
				TPH JP-5
18609-3356	G216-14	07/31/00	SOIL	TPH DIESEL
				TPH GASOLINE
				VOLATILE ORGANICS BY GC/MS
				TPH JP-5
18609-3357	G216-15	07/31/00	SOIL	TPH DIESEL
				TPH GASOLINE
				VOLATILE ORGANICS BY GC/MS
				TPH JP-5
18609-3358	G216-16	07/31/00	SOIL	TPH DIESEL
				TPH GASOLINE
				VOLATILE ORGANICS BY GC/MS

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

Sample ID	Control #	Col Date	Matrix	Analysis
				TPH JP-5
18609-3359	G216-17	07/31/00	SOIL	TPH DIESEL
				TPH GASOLINE
				VOLATILE ORGANICS BY GC/MS
				TPH JP-5
18609-3360	G216-18	07/31/00	SOIL	TPH DIESEL
				TPH GASOLINE
				VOLATILE ORGANICS BY GC/MS
				TPH JP-5
18609-3361	G216-19	07/31/00	WATER	VOLATILE ORGANICS BY GC/MS
				TPH GASOLINE
				TPH DIESEL
				TPH JP-5

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

[illegible]	: IT CORPORATION	Date Collected:	07/31/00
[illegible]ject	: MCAS EL TORO/18609/D.O. 70	Date Received:	07/31/00
tch No.	: 00G216	Date Extracted:	08/01/00 13:10
mple ID:	18609-3344	Date Analyzed:	08/02/00 00:12
o Samp ID:	G216-02	Dilution Factor:	1
b File ID:	DH01017A	Matrix	: SOIL
t Btch ID:	DSH002S	% Moisture	: 7.0
lib. Ref.:	DH01014A	Instrument ID	: GCT043

RAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
ESEL	ND	11	3.7
5	ND	11	4

RROGATE PARAMETERS	% RECOVERY	QC LIMIT
OMOBENZENE	93	60-140
XACOSANE	117	55-150

LIMIT : (SOIL) 60-140 55-150

LIMIT : (WATER) 65-135 60-145

RR1 : Bromobenzene

RR2 : Hexacosane

: Reporting Limit

METHOD M8015

TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

lient	: IT CORPORATION	Date Collected:	07/31/00
-oject	: MCAS EL TORO/18609/D.O. 70	Date Received:	07/31/00
atch No.	: 00G216	Date Extracted:	08/01/00 13:10
ample ID:	18609-3345	Date Analyzed:	08/02/00 01:00
ab Samp ID:	G216-03	Dilution Factor:	1
ab File ID:	DH01018A	Matrix :	SOIL
xt Btch ID:	DSH002S	% Moisture :	11.6
alib. Ref.:	DH01014A	Instrument ID :	GCT043

ARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
IESEL	ND	11	3.9
>5	ND	11	4.2

JRROGATE PARAMETERS	% RECOVERY	QC LIMIT
ROMOBENZENE	92	60-140
EXACOSANE	114	55-150

C LIMIT : (SOIL) 60-140 55-150

C LIMIT : (WATER) 65-135 60-145

JRR1 : Bromobenzene

JRR2 : Hexacosane

L : Reporting Limit

METHOD M8015

TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

[illegible]	: IT CORPORATION	Date Collected:	07/31/00
ɔject	: MCAS EL TORO/18609/D.O. 70	Date Received:	07/31/00
:ch No.	: 00G216	Date Extracted:	08/01/00 13:10
mple ID:	18609-3346	Date Analyzed:	08/02/00 01:48
ɔ Samp ID:	G216-04	Dilution Factor:	1
ɔ File ID:	DH01019A	Matrix :	SOIL
: Btch ID:	DSH002S	% Moisture :	9.3
.ib. Ref.:	DH01014A	Instrument ID :	GCT043

:AMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
:SEL	ND	11	3.8
;	ND	11	4.1

:ROGATE PARAMETERS	% RECOVERY	QC LIMIT
)MOBENZENE	93	60-140
:ACOSANE	113	55-150

LIMIT : (SOIL) 60-140 55-150

LIMIT : (WATER) 65-135 60-145

:R1 : Bromobenzene

:R2 : Hexacosane

: Reporting Limit

METHOD M8015
TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

.ient	: IT CORPORATION	Date Collected:	07/31/00
·oject	: MCAS EL TORO/18609/D.O. 70	Date Received:	07/31/00
ıtch No.	: 00G216	Date Extracted:	08/01/00 13:10
ımple ID:	18609-3347	Date Analyzed:	08/02/00 13:49
ıb Samp ID:	G216-05	Dilution Factor:	5
ıb File ID:	DH01034A	Matrix :	SOIL
ct Btch ID:	DSH002S	% Moisture :	25.5
ılib. Ref.:	DH01026A	Instrument ID :	GCT043

ARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
ESEL	ND	67	23
5**	4500	67	25

JRROGATE PARAMETERS	% RECOVERY	QC LIMIT
ROMOBENZENE	131	60-140
EXACOSANE	82	55-150

: LIMIT : (SOIL) 60-140 55-150
: LIMIT : (WATER) 65-135 60-145
JRR1 : Bromobenzene
JRR2 : Hexacosane
- : Reporting Limit
* : Chromatogram shows a JP5-like pattern, calculated as JP5

METHOD M8015
TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

e	: IT CORPORATION	Date Collected:	07/31/00
	: MCAS EL TORO/18609/D.O. 70	Date Received:	07/31/00
o.	: 00G216	Date Extracted:	08/01/00 13:10
ple ID:	18609-3348	Date Analyzed:	08/02/00 14:37
Samp ID:	G216-06	Dilution Factor:	10
File ID:	DH01035A	Matrix :	SOIL
Btch ID:	DSH002S	% Moisture :	27.4
ib. Ref.:	DH01026A	Instrument ID :	GCT043

AMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
SEL	ND	140	48
**	8000	140	51

ROGATE PARAMETERS	% RECOVERY	QC LIMIT
MOBENZENE	DO	60-140
ACOSANE	DO	55-150

LIMIT : (SOIL) 60-140 55-150
LIMIT : (WATER) 65-135 60-145
R1 : Bromobenzene
R2 : Hexacosane
: Reporting Limit
: Diluted Out
: Chromatogram shows a JP5-like pattern, calculated as JP5

METHOD M8015
TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

lient	: IT CORPORATION	Date Collected:	07/31/00
roject	: MCAS EL TORO/18609/D.O. 70	Date Received:	07/31/00
atch No.	: 00G216	Date Extracted:	08/01/00 13:10
ample ID:	18609-3349	Date Analyzed:	08/02/00 04:12
ab Samp ID:	G216-07	Dilution Factor:	1
ab File ID:	DH01022A	Matrix :	SOIL
xt Btch ID:	DSH002S	% Moisture :	4.1
alib. Ref.:	DH01014A	Instrument ID :	GCT043

ARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
IESEL	ND	10	3.6
P5	ND	10	3.9

JRROGATE PARAMETERS	% RECOVERY	QC LIMIT
ROMOBENZENE	94	60-140
EXACOSANE	122	55-150

C LIMIT : (SOIL) 60-140 55-150
C LIMIT : (WATER) 65-135 60-145
URR1 : Bromobenzene
URR2 : Hexacosane
L : Reporting Limit

METHOD M8015

TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

	: IT CORPORATION	Date Collected:	07/31/00
	: MCAS EL TORO/18609/D.O. 70	Date Received:	07/31/00
tch No.	: 00G216	Date Extracted:	08/01/00 13:10
mple ID:	18609-3350	Date Analyzed:	08/02/00 05:00
b Samp ID:	G216-08	Dilution Factor:	1
b File ID:	DH01023A	Matrix :	SOIL
t Btch ID:	DSH002S	% Moisture :	2.9
lib. Ref.:	DH01014A	Instrument ID :	GCT043

RAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
ESEL	ND	10	3.6
5	ND	10	3.8

RROGATE PARAMETERS	% RECOVERY	QC LIMIT
OMOBENZENE	60	60-140
XACOSANE	71	55-150

LIMIT : (SOIL) 60-140 55-150

LIMIT : (WATER) 65-135 60-145

RR1 : Bromobenzene

RR2 : Hexacosane

: Reporting Limit

METHOD M8015
TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

ient	: IT CORPORATION	Date Collected:	07/31/00
oject	: MCAS EL TORO/18609/D.O. 70	Date Received:	07/31/00
tch No.	: 00G216	Date Extracted:	08/01/00 13:10
mple ID:	18609-3351	Date Analyzed:	08/02/00 15:26
o Samp ID:	G216-09	Dilution Factor:	5
o File ID:	DH01036A	Matrix :	SOIL
t Btch ID:	DSH002S	% Moisture :	26.1
lib. Ref.:	DH01026A	Instrument ID :	GCT043

RAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
ESEL	ND	68	23
5**	3500	68	25

RROGATE PARAMETERS	% RECOVERY	QC LIMIT
OMOBENZENE	128	60-140
KACOSANE	70	55-150

LIMIT : (SOIL) 60-140 55-150
LIMIT : (WATER) 65-135 60-145
RR1 : Bromobenzene
RR2 : Hexacosane
: Reporting Limit
: Chromatogram shows a JP5-like pattern, calculated as JP5

METHOD M8015

TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

[illegible]	: IT CORPORATION	Date Collected:	07/31/00
[illegible]	: MCAS EL TORO/18609/D.O. 70	Date Received:	07/31/00
tch No.	: 00G216	Date Extracted:	08/01/00 13:10
mple ID:	18609-3352	Date Analyzed:	08/02/00 09:47
b Samp ID:	G216-10	Dilution Factor:	1
b File ID:	DH01029A	Matrix :	SOIL
t Btch ID:	DSH002S	% Moisture :	1.5
lib. Ref.:	DH01026A	Instrument ID :	GCT043

RAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
ESEL	ND	10	3.5
5	ND	10	3.8

RROGATE PARAMETERS	% RECOVERY	QC LIMIT
OMOBENZENE	91	60-140
XACOSANE	111	55-150

LIMIT : (SOIL) 60-140 55-150

LIMIT : (WATER) 65-135 60-145

RR1 : Bromobenzene

RR2 : Hexacosane

: Reporting Limit

METHOD M8015
TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

ient	: IT CORPORATION	Date Collected:	07/31/00
oject	: MCAS EL TORO/18609/D.O. 70	Date Received:	07/31/00
tch No.	: 00G216	Date Extracted:	08/01/00 13:10
mple ID:	18609-3353	Date Analyzed:	08/02/00 10:35
b Samp ID:	G216-11	Dilution Factor:	1
b File ID:	DH01030A	Matrix :	SOIL
t Btch ID:	DSH002S	% Moisture :	6.7
lib. Ref.:	DH01026A	Instrument ID :	GCT043

RAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
ESEL	ND	11	3.7
S	ND	11	4

RROGATE PARAMETERS	% RECOVERY	QC LIMIT
OMOBENZENE	90	60-140
XACOSANE	107	55-150

LIMIT : (SOIL) 60-140 55-150
LIMIT : (WATER) 65-135 60-145
RR1 : Bromobenzene
RR2 : Hexacosane
: Reporting Limit

METHOD M8015
TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

ient	: IT CORPORATION	Date Collected:	07/31/00
[illegible]	: MCAS EL TORO/18609/D.O. 70	Date Received:	07/31/00
[illegible] No.	: 00G216	Date Extracted:	08/01/00 13:10
mple ID:	18609-3354	Date Analyzed:	08/02/00 11:24
b Samp ID:	G216-12	Dilution Factor:	1
b File ID:	DH01031A	Matrix :	SOIL
t Btch ID:	DSH002S	% Moisture :	23.7
lib. Ref.:	DH01026A	Instrument ID :	GCT043

RAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
ESEL	ND	13	4.5
5**	3400	13	4.9

RROGATE PARAMETERS	% RECOVERY	QC LIMIT
OMOBENZENE	96	60-140
XACOSANE	117	55-150

LIMIT : (SOIL) 60-140 55-150
LIMIT : (WATER) 65-135 60-145
RR1 : Bromobenzene
RR2 : Hexacosane
: Reporting Limit
: Chromatogram shows a JP5-like pattern, calculated as JP5

METHOD M8015
TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

ient	: IT CORPORATION	Date Collected:	07/31/00
ɔject	: MCAS EL TORO/18609/D.O. 70	Date Received:	07/31/00
:ch No.	: 00G216	Date Extracted:	08/01/00 13:10
ɲple ID:	18609-3355	Date Analyzed:	08/02/00 12:12
ɔ Samp ID:	G216-13	Dilution Factor:	1
ɔ File ID:	DH01032A	Matrix :	SOIL
: Btch ID:	DSH002S	% Moisture :	28.8
.ib. Ref.:	DH01026A	Instrument ID :	GCT043

:AMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
:SEL	ND	14	4.9
;**	910	14	5.2

:ROGATE PARAMETERS	% RECOVERY	QC LIMIT
)MOBENZENE	113	60-140
:ACOSANE	124	55-150

LIMIT : (SOIL) 60-140 55-150
LIMIT : (WATER) 65-135 60-145
:R1 : Bromobenzene
:R2 : Hexacosane
: Reporting Limit
: Chromatogram shows a JP5-like pattern, calculated as JP5

METHOD M8015
TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

ent	: IT CORPORATION	Date Collected:	07/31/00
[illegible]	: MCAS EL TORO/18609/D.O. 70	Date Received:	07/31/00
[illegible]o.	: 00G216	Date Extracted:	08/01/00 13:10
ple ID:	18609-3356	Date Analyzed:	08/02/00 13:01
Samp ID:	G216-14	Dilution Factor:	10
File ID:	DH01033A	Matrix :	SOIL
Btch ID:	DSH002S	% Moisture :	28.0
ib. Ref.:	DH01026A	Instrument ID :	GCT043

AMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
SEL	ND	140	48
**	6400	140	52

ROGATE PARAMETERS	% RECOVERY	QC LIMIT
MOBENZENE	DO	60-140
ACOSANE	DO	55-150

LIMIT : (SOIL) 60-140 55-150
LIMIT : (WATER) 65-135 60-145
R1 : Bromobenzene
R2 : Hexacosane
: Reporting Limit
: Diluted Out
: Chromatogram shows a JP5-like pattern, calculated as JP5

METHOD M8015

TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

lient	: IT CORPORATION	Date Collected:	07/31/00
roject	: MCAS EL TORO/18609/D.O. 70	Date Received:	07/31/00
atch No.	: 00G216	Date Extracted:	08/01/00 13:10
ample ID:	18609-3357	Date Analyzed:	08/02/00 13:51
ab Samp ID:	G216-15	Dilution Factor:	1
ab File ID:	TH01027A	Matrix :	SOIL
xt Btch ID:	DSH002S	% Moisture :	6.1
alib. Ref.:	TH01024A	Instrument ID :	GCT050

ARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
IESEL	ND	11	3.7
P5	ND	11	4

JRROGATE PARAMETERS	% RECOVERY	QC LIMIT
ROMOBENZENE	120	60-140
EXACOSANE	98	55-150

C LIMIT : (SOIL) 60-140 55-150

C LIMIT : (WATER) 65-135 60-145

URR1 : Bromobenzene

URR2 : Hexacosane

L : Reporting Limit

METHOD M8015

TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

[illegible]	: IT CORPORATION	Date Collected:	07/31/00
[illegible]	: MCAS EL TORO/18609/D.O. 70	Date Received:	07/31/00
tch No.	: 00G216	Date Extracted:	08/01/00 13:10
mple ID:	18609-3358	Date Analyzed:	08/02/00 14:39
b Samp ID:	G216-16	Dilution Factor:	1
b File ID:	TH01028A	Matrix :	SOIL
t Btch ID:	DSH002S	% Moisture :	9.6
lib. Ref.:	TH01024A	Instrument ID :	GCT050

RAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
ESEL	ND	11	3.8
5	ND	11	4.1

RROGATE PARAMETERS	% RECOVERY	QC LIMIT
OMOBENZENE	115	60-140
XACOSANE	92	55-150

LIMIT : (SOIL) 60-140 55-150

LIMIT : (WATER) 65-135 60-145

RR1 : Bromobenzene

RR2 : Hexacosane

: Reporting Limit

METHOD M8015

TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

Client	: IT CORPORATION	Date Collected:	07/31/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	07/31/00
Batch No.	: 00G216	Date Extracted:	08/01/00 13:10
Sample ID:	18609-3359	Date Analyzed:	08/02/00 15:28
Lab Samp ID:	G216-17	Dilution Factor:	1
Lab File ID:	TH01029A	Matrix :	SOIL
Ext Btch ID:	DSH002S	% Moisture :	15.2
Calib. Ref.:	TH01024A	Instrument ID :	GCT050

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
DIESEL	ND	12	4.1
P5	ND	12	4.4

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
BROMOBENZENE	116	60-140
HEXACOSANE	91	55-150

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

L[illegible]	: IT CORPORATION	Date Collected:	07/31/00
[illegible]t	: MCAS EL TORO/18609/D.O. 70	Date Received:	07/31/00
atch No.	: 00G216	Date Extracted:	08/01/00 13:10
ample ID:	18609-3360	Date Analyzed:	08/02/00 16:16
ab Samp ID:	G216-18	Dilution Factor:	1
ab File ID:	TH01030A	Matrix :	SOIL
xt Btch ID:	DSH002S	% Moisture :	9.7
alib. Ref.:	TH01024A	Instrument ID :	GCT050

ARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
IESEL	ND	11	3.8
P5	ND	11	4.1

URROGATE PARAMETERS	% RECOVERY	QC LIMIT
ROMOBENZENE	120	60-140
EXACOSANE	96	55-150

C LIMIT : (SOIL) 60-140 55-150
C LIMIT : (WATER) 65-135 60-145
URR1 : Bromobenzene
URR2 : Hexacosane
- : Reporting Limit

METHOD M8015
TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

lient	: IT CORPORATION	Date Collected:	07/31/00
roject	: MCAS EL TORO/18609/D.O. 70	Date Received:	07/31/00
atch No.	: 00G216	Date Extracted:	08/01/00 14:30
ample ID:	18609-3361	Date Analyzed:	08/01/00 20:12
ab Samp ID:	G216-19	Dilution Factor:	.93
ab File ID:	DH01012A	Matrix :	WATER
xt Btch ID:	DSG054W	% Moisture :	NA
alib. Ref.:	DH01002A	Instrument ID :	GCT043

ARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
IESEL	ND	.093	.062
P5	ND	.47	.12

URROGATE PARAMETERS	% RECOVERY	QC LIMIT
ROMOBENZENE	79	65-135
EXACOSANE	122	60-145

C LIMIT : (SOIL) 60-140 55-150
C LIMIT : (WATER) 65-135 60-145
URR1 : Bromobenzene
URR2 : Hexacosane
L : Reporting Limit

METHOD M8015
TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

[illegible]	: IT CORPORATION	Date Collected:	NA
[illegible]	: MCAS EL TORO/18609/D.O. 70	Date Received:	08/01/00
:ch No.	: 00G216	Date Extracted:	08/01/00 13:10
ıple ID:	MBLK1S	Date Analyzed:	08/01/00 21:00
› Samp ID:	DSH002SB	Dilution Factor:	1
› File ID:	DH01013A	Matrix :	SOIL
: Btch ID:	DSH002S	% Moisture :	NA
.ib. Ref.:	DH01002A	Instrument ID :	GCT043

:AMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
:SEL	ND	10	3.5
›	ND	10	3.7

:ROGATE PARAMETERS	% RECOVERY	QC LIMIT
)MOBENZENE	87	60-140
:ACOSANE	111	55-150

LIMIT : (SOIL) 60-140 55-150
LIMIT : (WATER) 65-135 60-145
:R1 : Bromobenzene
:R2 : Hexacosane
: Reporting Limit

EMAX QUALITY CONTROL DATA
LCS ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
BATCH NO.: 00G216
METHOD: METHOD M8015

==========

MATRIX:	SOIL		% MOISTURE:	NA
DILUTION FACTOR:	1	1		
SAMPLE ID:	MBLK1S			
LAB SAMP ID:	DSH002SB	DSH002SL		
LAB FILE ID:	DH01013A	DH01016A		
DATE EXTRACTED:	08/01/0013:10	08/01/0013:10	DATE COLLECTED:	NA
DATE ANALYZED:	08/01/0021:00	08/01/0023:24	DATE RECEIVED:	08/01/00
PREP. BATCH:	DSH002S	DSH002S		
CALIB. REF:	DH01002A	DH01014A		

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	QC LIMIT (%)
Diesel	ND	500	398	80	51-153

==========

SURROGATE PARAMETER	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	QC LIMIT (%)
Bromobenzene	100	93.7	94	60-140
Hexacosane	25	30.2	121	55-150

METHOD M8015
TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

[illegible]	: IT CORPORATION	Date Collected:	NA
[illegible]t	: MCAS EL TORO/18609/D.O. 70	Date Received:	08/01/00
atch No.	: 00G216	Date Extracted:	08/01/00 14:30
ample ID:	MBLK1W	Date Analyzed:	08/01/00 17:46
ab Samp ID:	DSG054WB	Dilution Factor:	1
ab File ID:	DH01009A	Matrix :	WATER
t Btch ID:	DSG054W	% Moisture :	NA
lib. Ref.:	DH01002A	Instrument ID :	GCT043

RAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
ESEL	ND	.1	.067
5	ND	.5	.13

RROGATE PARAMETERS	% RECOVERY	QC LIMIT
OMOBENZENE	77	65-135
XACOSANE	122	60-145

LIMIT : (SOIL) 60-140 55-150
LIMIT : (WATER) 65-135 60-145
RR1 : Bromobenzene
RR2 : Hexacosane
: Reporting Limit

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

:LIENT: IT CORPORATION
'ROJECT: MCAS EL TORO/18609/D.O. 70
3ATCH NO.: 00G216
1ETHOD: METHOD M8015

1ATRIX:	WATER			% MOISTURE:	NA
)ILUTION FACTOR:	1	1	1		
3AMPLE ID:	MBLK1W				
.AB SAMP ID:	DSG054WB	DSG054WL	DSG054WC		
.AB FILE ID:	DH01009A	DH01010A	DH01011A		
)ATE EXTRACTED:	08/01/0014:30	08/01/0014:30	08/01/0014:30	DATE COLLECTED:	NA
)ATE ANALYZED:	08/01/0017:46	08/01/0018:35	08/01/0019:23	DATE RECEIVED:	08/01/00
'REP. BATCH:	DSG054W	DSG054W	DSG054W		
:ALIB. REF:	DH01002A	DH01002A	DH01002A		

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 (%)
)iesel	ND	5	4.06	81	5	4.77	95	16	61-143	30

3URROGATE PARAMETER	SPIKE AMT (mg/L)	BS RSLT (mg/L)	BS % REC	SPIKE AMT (mg/L)	BSD RSLT (mg/L)	BSD % REC	QC LIMIT (%)
3romobenzene	1	.748	75	1	.876	88	65-135
1exacosane	.25	.319	128	.25	.335	134	60-145

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

LIENT: IT CORPORATION
: MCAS EL TORO/18609/D.O. 70
NO.: 00G216
ETHOD: METHOD M8015

==========

ATRIX: SOIL % MOISTURE: 2.9

ILUTION FACTOR:	1	1	1		
AMPLE ID:	18609-3350				
AB SAMP ID:	G216-08	G216-08M	G216-08S		
AB FILE ID:	DH01023A	DH01024A	DH01025A		
ATE EXTRACTED:	08/01/0013:10	08/01/0013:10	08/01/0013:10	DATE COLLECTED:	07/31/00
ATE ANALYZED:	08/02/0005:00	08/02/0005:47	08/02/0006:35	DATE RECEIVED:	07/31/00
REP. BATCH:	DSH002S	DSH002S	DSH002S		
ALIB. REF:	DH01014A	DH01014A	DH01014A		

CCESSION:

ARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	MS RSLT (mg/kg)	MS % REC	SPIKE AMT (mg/kg)	MSD RSLT (mg/kg)	MSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
iesel	ND	515	430	83	515	475	92	10	51-153	50

==========

URROGATE PARAMETER	SPIKE AMT (mg/kg)	MS RSLT (mg/kg)	MS % REC	SPIKE AMT (mg/kg)	MSD RSLT (mg/kg)	MSD % REC	QC LIMIT (%)
enzene	103	104	101	103	107	104	60-140
exacosane	25.7	32.9	128	25.7	34.6	134	55-150

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

Client : IT CORPORATION
Project : MCAS EL TORO/18609/D.O. 70
Batch No. : 00G216

Matrix : SOIL
Instrument ID : GCT039

SAMPLE ID	EMAX SAMPLE ID	RESULTS (mg/kg)	SURR (%)	DLF	MOIST	PRL (mg/kg)	MDL (mg/kg)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1S	VAH0239B	ND	85	1	NA	1	.02	08/01/0018:14	08/01/0018:14	EH01014A	EH01013A	VAH0239	NA	08/01/00
LCS1S	VAH0239L	3.44	105	1	NA	1	.02	08/01/0018:50	08/01/0018:50	EH01015A	EH01013A	VAH0239	NA	08/01/00
LCD1S	VAH0239C	2.87	101	1	NA	1	.02	08/01/0019:28	08/01/0019:28	EH01016A	EH01013A	VAH0239	NA	08/01/00
MBLK2S	VMH0339B	ND	78	10	NA	10	.2	08/02/0009:17	08/02/0009:17	EH01040A	EH01036A	VMH0339	NA	08/02/00
LCS2S	VMH0339L	33.3	108	10	NA	10	.2	08/02/0009:51	08/02/0009:51	EH01041A	EH01036A	VMH0339	NA	08/02/00
LCD2S	VMH0339C	36.1	105	10	NA	10	.2	08/02/0010:26	08/02/0010:26	EH01042A	EH01036A	VMH0339	NA	08/02/00
MBLK3S	VAH0439B	ND	80	1	NA	1	.02	08/02/0021:28	08/02/0021:28	EH01060A	EH01057A	VAH0439	NA	08/02/00
LCS3S	VAH0439L	2.96	101	1	NA	1	.02	08/02/0022:04	08/02/0022:04	EH01061A	EH01057A	VAH0439	NA	08/02/00
LCD3S	VAH0439C	3.07	96	1	NA	1	.02	08/02/0022:38	08/02/0022:38	EH01062A	EH01057A	VAH0439	NA	08/02/00
18609-3344	G216-02	ND	86	1	7.0	1.08	.0215	08/01/0020:03	08/01/0020:03	EH01017A	EH01013A	VAH0239	07/31/00	07/31/00
18609-3345	G216-03	ND	82	1	11.6	1.13	.0226	08/01/0020:38	08/01/0020:38	EH01018A	EH01013A	VAH0239	07/31/00	07/31/00
18609-3346	G216-04	ND	86	1	9.3	1.1	.0221	08/01/0021:13	08/01/0021:13	EH01019A	EH01013A	VAH0239	07/31/00	07/31/00
18609-3347**	G216-05	5600	115	500	25.5	671	13.4	08/02/0018:33	08/02/0018:33	EH01055A	EH01047A	VMH0339	07/31/00	07/31/00
18609-3348**	G216-06	8500	116	500	27.4	689	13.8	08/02/0016:47	08/02/0016:47	EH01052A	EH01047A	VMH0339	07/31/00	07/31/00
18609-3349**	G216-07	1.7	80	1	4.1	1.04	.0209	08/02/0023:13	08/02/0023:13	EH01063A	EH01057A	VAH0439	07/31/00	07/31/00
18609-3350	G216-08	ND	83	1	2.9	1.03	.0206	08/01/0023:32	08/01/0023:32	EH01023A	EH01013A	VAH0239	07/31/00	07/31/00
18609-3350MS	G216-08M	3.51	105	1	2.9	1.03	.0206	08/02/0008:07	08/02/0008:07	EH01038A	EH01036A	VAH0239	07/31/00	07/31/00
18609-3350MSD	G216-08S	3.5	100	1	2.9	1.03	.0206	08/02/0008:42	08/02/0008:42	EH01039A	EH01036A	VAH0239	07/31/00	07/31/00
18609-3351**	G216-09	6100	109	500	26.1	677	13.5	08/02/0017:22	08/02/0017:22	EH01053A	EH01047A	VMH0339	07/31/00	07/31/00
18609-3352	G216-10	ND	91	1	1.5	1.02	.0203	08/02/0023:48	08/02/0023:48	EH01064A	EH01057A	VAH0439	07/31/00	07/31/00
18609-3353	G216-11	ND	85	1	6.7	1.07	.0214	08/02/0002:24	08/02/0002:24	EH01028A	EH01025A	VAH0239	07/31/00	07/31/00
18609-3354**	G216-12	1300	85	200	23.7	262	5.24	08/02/0019:09	08/02/0019:09	EH01056A	EH01047A	VMH0339	07/31/00	07/31/00
18609-3355**	G216-13	2000	109	100	28.8	140	2.81	08/02/0015:35	08/02/0015:35	EH01050A	EH01047A	VMH0339	07/31/00	07/31/00
18609-3356**	G216-14	7600	99	1000	28.0	1390	27.8	08/02/0017:58	08/02/0017:58	EH01054A	EH01047A	VMH0339	07/31/00	07/31/00
18609-3357	G216-15	ND	83	1	6.1	1.06	.0213	08/03/0000:23	08/03/0000:23	EH01065A	EH01057A	VAH0439	07/31/00	07/31/00
18609-3358	G216-16	ND	84	1	9.6	1.11	.0221	08/02/0005:16	08/02/0005:16	EH01033A	EH01025A	VAH0239	07/31/00	07/31/00
18609-3359	G216-17	ND	78	1	15.2	1.18	.0236	08/02/0005:50	08/02/0005:50	EH01034A	EH01025A	VAH0239	07/31/00	07/31/00
18609-3360	G216-18	ND	88	1	9.7	1.11	.0221	08/02/0006:24	08/02/0006:24	EH01035A	EH01025A	VAH0239	07/31/00	07/31/00

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
** : Presence of hydrocarbon heavier than Gasoline.

METHOD [illegible]/M8015
TOTAL PETROLEUM HYDRO[illegible]ONS BY PURGE & TRAP

Client : IT CORPORATION
Project : MCAS EL TORO/18609/D.O. 70
Batch No. : 00G216

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	VAH0139B	ND	82	1	NA	.1	.012	08/01/0012:14	08/01/0012:14	EH01004A	EH01002A	VAH0139	NA	08/01/00
LCS1W	VAH0139L	.605	105	1	NA	.1	.012	08/01/0012:50	08/01/0012:50	EH01005A	EH01002A	VAH0139	NA	08/01/00
LCD1W	VAH0139C	.58	101	1	NA	.1	.012	08/01/0013:24	08/01/0013:24	EH01006A	EH01002A	VAH0139	NA	08/01/00
18609-3361	G216-19	ND	91	1	NA	.1	.012	08/01/0014:00	08/01/0014:00	EH01007A	EH01002A	VAH0139	07/31/00	07/31/00

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

LIENT: IT CORPORATION
ROJECT: MCAS EL TORO/18609/D.O. 70
ATCH NO.: 00G216
ETHOD: METHOD 5030B/M8015

ATRIX:	WATER			% MOISTURE:	NA
ILUTION FACTOR:	1	1	1		
AMPLE ID:	MBLK1W				
AB SAMP ID:	VAH0139B	VAH0139L	VAH0139C		
AB FILE ID:	EH01004A	EH01005A	EH01006A		
ATE EXTRACTED:	08/01/0012:14	08/01/0012:50	08/01/0013:24	DATE COLLECTED:	NA
ATE ANALYZED:	08/01/0012:14	08/01/0012:50	08/01/0013:24	DATE RECEIVED:	08/01/00
REP. BATCH:	VAH0139	VAH0139	VAH0139		
ALIB. REF:	EH01002A	EH01002A	EH01002A		

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 (%)
asoline	ND	.55	.605	110	.55	.58	106	4	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 (%)
romofluorobenzene	.02	.0209	105	.02	.0202	101	65-135

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

:ENT: IT CORPORATION
MCAS EL TORO/18609/D.O. 70
D.: 00G216
:HOD: METHOD 5030B/M8015

'RIX: SOIL % MOISTURE: NA

.UTION FACTOR:	1	1	1
MPLE ID:	MBLK1S		
3 SAMP ID:	VAH0239B	VAH0239L	VAH0239C
3 FILE ID:	EH01014A	EH01015A	EH01016A
'E EXTRACTED:	08/01/0018:14	08/01/0018:50	08/01/0019:28
'E ANALYZED:	08/01/0018:14	08/01/0018:50	08/01/0019:28
:P. BATCH:	VAH0239	VAH0239	VAH0239
.IB. REF:	EH01013A	EH01013A	EH01013A

DATE COLLECTED: NA
DATE RECEIVED: 08/01/00

:ESSION:

RAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
soline	ND	2.75	3.44	125	2.75	2.87	104	18	57-146	50

RROGATE PARAMETER	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	QC LIMIT (%)
omofluorobenzene	.1	.105	105	.1	.101	101	60-140

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

.IENT: IT CORPORATION
ROJECT: MCAS EL TORO/18609/D.O. 70
ATCH NO.: 00G216
ETHOD: METHOD 5030B/M8015

ATRIX:	SOIL			% MOISTURE:	NA
ILUTION FACTOR:	10	10	10		
AMPLE ID:	MBLK2S				
AB SAMP ID:	VMH0339B	VMH0339L	VMH0339C		
AB FILE ID:	EH01040A	EH01041A	EH01042A		
ATE EXTRACTED:	08/02/0009:17	08/02/0009:51	08/02/0010:26	DATE COLLECTED:	NA
ATE ANALYZED:	08/02/0009:17	08/02/0009:51	08/02/0010:26	DATE RECEIVED:	08/02/00
REP. BATCH:	VMH0339	VMH0339	VMH0339		
ALIB. REF:	EH01036A	EH01036A	EH01036A		

CCESSION:

ARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
asoline	ND	27.5	33.3	121	27.5	36.1	131	8	57-146	50

URROGATE PARAMETER	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	QC LIMIT (%)
romofluorobenzene	1	1.08	108	1	1.05	105	60-140

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

ENT: IT CORPORATION
MCAS EL TORO/18609/D.O. 70
.: 00G216
HOD: METHOD 5030B/M8015

==========

RIX: SOIL % MOISTURE: NA
UTION FACTOR: 1 1 1
PLE ID: MBLK3S
SAMP ID: VAH0439B VAH0439L VAH0439C
FILE ID: EH01060A EH01061A EH01062A
E EXTRACTED: 08/02/0021:28 08/02/0022:04 08/02/0022:38 DATE COLLECTED: NA
E ANALYZED: 08/02/0021:28 08/02/0022:04 08/02/0022:38 DATE RECEIVED: 08/02/00
P. BATCH: VAH0439 VAH0439 VAH0439
IB. REF: EH01057A EH01057A EH01057A

ESSION:

AMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
oline	ND	2.75	2.96	108	2.75	3.07	112	4	57-146	50

==========

ROGATE PARAMETER	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	QC LIMIT (%)
mofluorobenzene	.1	.101	101	.1	.0956	96	60-140

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

IENT: IT CORPORATION
OJECT: MCAS EL TORO/18609/D.O. 70
TCH NO.: 00G216
THOD: METHOD 5030B/M8015

TRIX:	SOIL			% MOISTURE:	2.9
LUTION FACTOR:	1	1	1		
MPLE ID:	18609-3350				
B SAMP ID:	G216-08	G216-08M	G216-08S		
B FILE ID:	EH01023A	EH01038A	EH01039A		
TE EXTRACTED:	08/01/0023:32	08/02/0008:07	08/02/0008:42	DATE COLLECTED:	07/31/00
TE ANALYZED:	08/01/0023:32	08/02/0008:07	08/02/0008:42	DATE RECEIVED:	07/31/00
EP. BATCH:	VAH0239	VAH0239	VAH0239		
LIB. REF:	EH01013A	EH01036A	EH01036A		

CESSION:

RAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	MS RSLT (mg/kg)	MS % REC	SPIKE AMT (mg/kg)	MSD RSLT (mg/kg)	MSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
soline	ND	2.83	3.51	124	2.83	3.5	124	0	57-146	50

RROGATE PARAMETER	SPIKE AMT (mg/kg)	MS RSLT (mg/kg)	MS % REC	SPIKE AMT (mg/kg)	MSD RSLT (mg/kg)	MSD % REC	QC LIMIT (%)
omofluorobenzene	.103	.108	105	.103	.103	100	60-140

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

ient	: IT CORPORATION	Date Collected:	07/31/00
	: MCAS EL TORO/18609/D.O. 70	Date Received:	07/31/00
No.	: 00G216	Date Extracted:	08/01/00 16:40
mple ID:	18609-3343	Date Analyzed:	08/01/00 16:40
b Samp ID:	G216-01	Dilution Factor:	1
b File ID:	RHQ012	Matrix :	WATER
t Btch ID:	VOH0105	% Moisture :	NA
lib. Ref.:	RHQ002	Instrument ID :	T-005

RAMETERS	RESULTS (ug/L)	PRL (ug/L)	MDL (ug/L)
1,1-TRICHLOROETHANE	ND	5	.91
1,2,2-TETRACHLOROETHANE	ND	5	1.1
1,2-TRICHLOROETHANE	ND	5	.83
1-DICHLOROETHANE	ND	5	.65
1-DICHLOROETHENE	ND	5	.86
2-DICHLOROETHANE	ND	5	.95
2-DICHLOROPROPANE	ND	5	.73
BUTANONE	ND	50	6.7
CHLOROETHYLVINYLETHER	ND	50	1.3
HEXANONE	ND	50	5.6
METHYL-2-PENTANONE	ND	50	3.6
ETONE	ND	50	9.6
NZENE	ND	5	.77
OMODICHLOROMETHANE	ND	5	.82
OMOFORM	ND	5	.74
OMOMETHANE	ND	5	1.9
RBON DISULFIDE	ND	5	.61
RBON TETRACHLORIDE	ND	5	.83
LOROBENZENE	ND	5	1.1
LOROETHANE	ND	5	1.7
LOROFORM	ND	5	.67
METHANE	ND	5	.67
-DICHLOROETHENE	ND	5	.79
3-DICHLOROPROPENE	ND	5	.79
BROMOCHLOROMETHANE	ND	5	.71
HYLBENZENE	ND	5	1
BE	ND	10	.77
THYLENE CHLORIDE	ND	5	1.4
YRENE	ND	5	.87
TRACHLOROETHENE	ND	5	1.1
LUENE	ND	5	.99
ANS-1,2-DICHLOROETHENE	ND	5	.73
ANS-1,3-DICHLOROPROPENE	ND	5	.82
ICHLOROETHENE	ND	5	.89
NYL ACETATE	ND	50	1.4
NYL CHLORIDE	ND	5	2.5
LENES	ND	5	3.1

RROGATE PARAMETERS	% RECOVERY	QC LIMIT
2-DICHLOROETHANE-D4	100	62-139
OMOFLUOROBENZENE	99	75-125
LUENE-D8	104	75-125

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

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

Client : IT CORPORATION	Date Collected: 07/31/00
Project : MCAS EL TORO/18609/D.O. 70	Date Received: 07/31/00
Batch No. : 00G216	Date Extracted: 08/01/00 17:59
Sample ID: 18609-3344	Date Analyzed: 08/01/00 17:59
Lab Samp ID: G216-02	Dilution Factor: 1
Lab File ID: RHQ014	Matrix : SOIL
Ext Btch ID: VOH0105	% Moisture : 7.0
Calib. Ref.: RHQ002	Instrument ID : T-005

PARAMETERS	RESULTS (ug/kg)	PRL (ug/kg)	MDL (ug/kg)
1,1,1-TRICHLOROETHANE	ND	5.4	.37
1,1,2,2-TETRACHLOROETHANE	ND	5.4	.79
1,1,2-TRICHLOROETHANE	ND	5.4	.71
1,1-DICHLOROETHANE	ND	5.4	.56
1,1-DICHLOROETHENE	ND	5.4	.52
1,2-DICHLOROETHANE	ND	5.4	1.1
1,2-DICHLOROPROPANE	ND	5.4	.59
2-BUTANONE	ND	54	1.6
2-CHLOROETHYLVINYLETHER	ND	54	.8
2-HEXANONE	ND	54	1.6
4-METHYL-2-PENTANONE	ND	54	3
ACETONE	ND	54	3.1
BENZENE	ND	5.4	.57
BROMODICHLOROMETHANE	ND	5.4	.45
BROMOFORM	ND	5.4	.64
BROMOMETHANE	ND	5.4	3.9
CARBON DISULFIDE	ND	11	.36
CARBON TETRACHLORIDE	ND	5.4	.58
CHLOROBENZENE	ND	5.4	.5
CHLOROETHANE	ND	5.4	.99
CHLOROFORM	ND	5.4	.56
CHLOROMETHANE	ND	5.4	.57
CIS-1,2-DICHLOROETHENE	ND	5.4	.49
CIS-1,3-DICHLOROPROPENE	ND	5.4	.43
DIBROMOCHLOROMETHANE	ND	5.4	.39
ETHYLBENZENE	ND	5.4	.49
MTBE	ND	11	.81
METHYLENE CHLORIDE	ND	11	3.2
STYRENE	ND	5.4	.37
TETRACHLOROETHENE	ND	5.4	.36
TOLUENE	ND	5.4	.62
TRANS-1,2-DICHLOROETHENE	ND	5.4	.51
TRANS-1,3-DICHLOROPROPENE	ND	5.4	.48
TRICHLOROETHENE	ND	5.4	.66
VINYL ACETATE	ND	54	.89
VINYL CHLORIDE	ND	5.4	.63
XYLENES	ND	5.4	1.2

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	102	52-149
BROMOFLUOROBENZENE	101	65-135
TOLUENE-D8	103	65-135

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

lient	: IT CORPORATION	Date Collected:	07/31/00
t	: MCAS EL TORO/18609/D.O. 70	Date Received:	07/31/00
No.	: 00G216	Date Extracted:	08/01/00 18:39
ample ID:	18609-3345	Date Analyzed:	08/01/00 18:39
ab Samp ID:	G216-03	Dilution Factor:	1
ab File ID:	RHQ015	Matrix :	SOIL
xt Btch ID:	VOH0105	% Moisture :	11.6
alib. Ref.:	RHQ002	Instrument ID :	T-005

ARAMETERS	RESULTS (ug/kg)	PRL (ug/kg)	MDL (ug/kg)
,1,1-TRICHLOROETHANE	ND	5.7	.38
,1,2,2-TETRACHLOROETHANE	ND	5.7	.83
,1,2-TRICHLOROETHANE	ND	5.7	.74
,1-DICHLOROETHANE	ND	5.7	.59
,1-DICHLOROETHENE	ND	5.7	.54
,2-DICHLOROETHANE	ND	5.7	1.1
,2-DICHLOROPROPANE	ND	5.7	.62
-BUTANONE	ND	57	1.7
-CHLOROETHYLVINYLETHER	ND	57	.84
-HEXANONE	ND	57	1.7
-METHYL-2-PENTANONE	ND	57	3.2
CETONE	ND	57	3.3
ENZENE	ND	5.7	.6
ROMODICHLOROMETHANE	ND	5.7	.48
ROMOFORM	ND	5.7	.67
ROMOMETHANE	ND	5.7	4.1
ARBON DISULFIDE	ND	11	.38
ARBON TETRACHLORIDE	ND	5.7	.61
HLOROBENZENE	ND	5.7	.52
HLOROETHANE	ND	5.7	1
HLOROFORM	ND	5.7	.59
HLOROMETHANE	ND	5.7	.6
2-DICHLOROETHENE	ND	5.7	.52
3-DICHLOROPROPENE	ND	5.7	.45
IBROMOCHLOROMETHANE	ND	5.7	.42
THYLBENZENE	ND	5.7	.52
TBE	ND	11	.86
ETHYLENE CHLORIDE	ND	11	3.4
TYRENE	ND	5.7	.39
ETRACHLOROETHENE	ND	5.7	.38
OLUENE	ND	5.7	.65
RANS-1,2-DICHLOROETHENE	ND	5.7	.54
RANS-1,3-DICHLOROPROPENE	ND	5.7	.51
RICHLOROETHENE	ND	5.7	.69
INYL ACETATE	ND	57	.94
INYL CHLORIDE	ND	5.7	.66
YLENES	ND	5.7	1.3

URROGATE PARAMETERS	% RECOVERY	QC LIMIT
,2-DICHLOROETHANE-D4	100	52-149
ROMOFLUOROBENZENE	102	65-135
OLUENE-D8	102	65-135

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

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

Client : IT CORPORATION	Date Collected: 07/31/00
Project : MCAS EL TORO/18609/D.O. 70	Date Received: 07/31/00
Batch No. : 00G216	Date Extracted: 08/01/00 19:17
Sample ID: 18609-3346	Date Analyzed: 08/01/00 19:17
Lab Samp ID: G216-04	Dilution Factor: 1
Lab File ID: RHQ016	Matrix : SOIL
Ext Btch ID: VOH0105	% Moisture : 9.3
Calib. Ref.: RHQ002	Instrument ID : T-005

PARAMETERS	RESULTS (ug/kg)	PRL (ug/kg)	MDL (ug/kg)
1,1,1-TRICHLOROETHANE	ND	5.5	.37
1,1,2,2-TETRACHLOROETHANE	ND	5.5	.81
1,1,2-TRICHLOROETHANE	ND	5.5	.72
1,1-DICHLOROETHANE	ND	5.5	.58
1,1-DICHLOROETHENE	ND	5.5	.53
1,2-DICHLOROETHANE	ND	5.5	1.1
1,2-DICHLOROPROPANE	ND	5.5	.6
2-BUTANONE	ND	55	1.7
2-CHLOROETHYLVINYLETHER	ND	55	.82
2-HEXANONE	ND	55	1.6
4-METHYL-2-PENTANONE	ND	55	3.1
ACETONE	ND	55	3.2
BENZENE	ND	5.5	.58
BROMODICHLOROMETHANE	ND	5.5	.47
BROMOFORM	ND	5.5	.65
BROMOMETHANE	ND	5.5	4
CARBON DISULFIDE	ND	11	.37
CARBON TETRACHLORIDE	ND	5.5	.59
CHLOROBENZENE	ND	5.5	.51
CHLOROETHANE	ND	5.5	1
CHLOROFORM	ND	5.5	.58
CHLOROMETHANE	ND	5.5	.58
CIS-1,2-DICHLOROETHENE	ND	5.5	.51
CIS-1,3-DICHLOROPROPENE	ND	5.5	.44
DIBROMOCHLOROMETHANE	ND	5.5	.4
ETHYLBENZENE	ND	5.5	.51
MTBE	ND	11	.83
METHYLENE CHLORIDE	ND	11	3.3
STYRENE	ND	5.5	.38
TETRACHLOROETHENE	ND	5.5	.37
TOLUENE	ND	5.5	.64
TRANS-1,2-DICHLOROETHENE	ND	5.5	.52
TRANS-1,3-DICHLOROPROPENE	ND	5.5	.5
TRICHLOROETHENE	ND	5.5	.67
VINYL ACETATE	ND	55	.92
VINYL CHLORIDE	ND	5.5	.64
XYLENES	ND	5.5	1.3

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	100	52-149
BROMOFLUOROBENZENE	102	65-135
TOLUENE-D8	104	65-135

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

: IT CORPORATION		Date Collected:	07/31/00
: MCAS EL TORO/18609/D.O. 70		Date Received:	07/31/00
No. : 00G216		Date Extracted:	08/01/00 20:34
mple ID: 18609-3347		Date Analyzed:	08/01/00 20:34
b Samp ID: G216-05		Dilution Factor:	500
b File ID: RHQ018		Matrix :	SOIL
t Btch ID: VOH0105		% Moisture :	25.5
lib. Ref.: RHQ002		Instrument ID :	T-005

RAMETERS	RESULTS (ug/kg)	PRL (ug/kg)	MDL (ug/kg)
1,1-TRICHLOROETHANE	ND	3400	230
1,2,2-TETRACHLOROETHANE	ND	3400	500
1,2-TRICHLOROETHANE	ND	3400	440
1-DICHLOROETHANE	ND	3400	350
1-DICHLOROETHENE	ND	3400	320
2-DICHLOROETHANE	ND	3400	660
2-DICHLOROPROPANE	ND	3400	370
BUTANONE	ND	34000	1000
CHLOROETHYLVINYLETHER	ND	34000	500
HEXANONE	ND	34000	990
METHYL-2-PENTANONE	ND	34000	1900
ETONE	ND	34000	1900
NZENE	ND	3400	350
ROMODICHLOROMETHANE	ND	3400	280
ROMOFORM	ND	3400	400
ROMOMETHANE	ND	3400	2400
RBON DISULFIDE	ND	6700	220
RBON TETRACHLORIDE	ND	3400	360
LOROBENZENE	ND	3400	310
LOROETHANE	ND	3400	620
LOROFORM	ND	3400	350
METHANE	ND	3400	350
2-DICHLOROETHENE	ND	3400	310
,3-DICHLOROPROPENE	ND	3400	270
IBROMOCHLOROMETHANE	ND	3400	250
THYLBENZENE	770J	3400	310
TBE	ND	6700	510
ETHYLENE CHLORIDE	ND	6700	2000
TYRENE	ND	3400	230
ETRACHLOROETHENE	ND	3400	230
OLUENE	ND	3400	390
RANS-1,2-DICHLOROETHENE	ND	3400	320
RANS-1,3-DICHLOROPROPENE	ND	3400	300
RICHLOROETHENE	ND	3400	410
INYL ACETATE	ND	34000	560
INYL CHLORIDE	ND	3400	390
YLENES	ND	3400	760

URROGATE PARAMETERS	% RECOVERY	QC LIMIT
,2-DICHLOROETHANE-D4	98	52-149
ROMOFLUOROBENZENE	93	65-135
OLUENE-D8	100	65-135

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

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

Client : IT CORPORATION	Date Collected: 07/31/00
Project : MCAS EL TORO/18609/D.O. 70	Date Received: 07/31/00
Batch No. : 00G216	Date Extracted: 08/01/00 21:12
Sample ID: 18609-3348	Date Analyzed: 08/01/00 21:12
Lab Samp ID: G216-06	Dilution Factor: 500
Lab File ID: RHQ019	Matrix : SOIL
Ext Btch ID: VOH0105	% Moisture : 27.4
Calib. Ref.: RHQ002	Instrument ID : T-005

PARAMETERS	RESULTS (ug/kg)	PRL (ug/kg)	MDL (ug/kg)
1,1,1-TRICHLOROETHANE	ND	3400	230
1,1,2,2-TETRACHLOROETHANE	ND	3400	510
1,1,2-TRICHLOROETHANE	ND	3400	450
1,1-DICHLOROETHANE	ND	3400	360
1,1-DICHLOROETHENE	ND	3400	330
1,2-DICHLOROETHANE	ND	3400	680
1,2-DICHLOROPROPANE	ND	3400	380
2-BUTANONE	ND	34000	1000
2-CHLOROETHYLVINYLETHER	ND	34000	510
2-HEXANONE	ND	34000	1000
4-METHYL-2-PENTANONE	ND	34000	1900
ACETONE	ND	34000	2000
BENZENE	ND	3400	360
BROMODICHLOROMETHANE	ND	3400	290
BROMOFORM	ND	3400	410
BROMOMETHANE	ND	3400	2500
CARBON DISULFIDE	ND	6900	230
CARBON TETRACHLORIDE	ND	3400	370
CHLOROBENZENE	ND	3400	320
CHLOROETHANE	ND	3400	630
CHLOROFORM	ND	3400	360
CHLOROMETHANE	ND	3400	360
CIS-1,2-DICHLOROETHENE	ND	3400	320
CIS-1,3-DICHLOROPROPENE	ND	3400	280
DIBROMOCHLOROMETHANE	ND	3400	250
ETHYLBENZENE	4800	3400	320
MTBE	ND	6900	520
METHYLENE CHLORIDE	ND	6900	2100
STYRENE	ND	3400	230
TETRACHLOROETHENE	ND	3400	230
TOLUENE	ND	3400	400
TRANS-1,2-DICHLOROETHENE	ND	3400	330
TRANS-1,3-DICHLOROPROPENE	ND	3400	310
TRICHLOROETHENE	ND	3400	420
VINYL ACETATE	ND	34000	570
VINYL CHLORIDE	ND	3400	400
XYLENES	2600J	3400	780

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	93	52-149
BROMOFLUOROBENZENE	99	65-135
TOLUENE-D8	105	65-135

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:	07/31/00
t	: MCAS EL TORO/18609/D.O. 70	Date Received:	07/31/00
No.	: 00G216	Date Extracted:	08/02/00 08:25
mple ID:	18609-3349	Date Analyzed:	08/02/00 08:25
ib Samp ID:	G216-07	Dilution Factor:	1
ib File ID:	RHQ037	Matrix	: SOIL
t Btch ID:	VOH0205	% Moisture	: 4.1
lib. Ref.:	RHQ022	Instrument ID	: T-005

RAMETERS	RESULTS (ug/kg)	PRL (ug/kg)	MDL (ug/kg)
1,1-TRICHLOROETHANE	ND	5.2	.35
1,2,2-TETRACHLOROETHANE	ND	5.2	.77
1,2-TRICHLOROETHANE	ND	5.2	.68
1-DICHLOROETHANE	ND	5.2	.55
1-DICHLOROETHENE	ND	5.2	.5
2-DICHLOROETHANE	ND	5.2	1
2-DICHLOROPROPANE	ND	5.2	.57
BUTANONE	ND	52	1.6
CHLOROETHYLVINYLETHER	ND	52	.77
HEXANONE	ND	52	1.5
METHYL-2-PENTANONE	ND	52	2.9
ETONE	ND	52	3
NZENE	ND	5.2	.55
OMODICHLOROMETHANE	ND	5.2	.44
OMOFORM	ND	5.2	.62
OMOMETHANE	ND	5.2	3.7
RBON DISULFIDE	ND	10	.35
RBON TETRACHLORIDE	ND	5.2	.56
LOROBENZENE	ND	5.2	.48
LOROETHANE	ND	5.2	.96
LOROFORM	ND	5.2	.55
OMETHANE	ND	5.2	.55
2-DICHLOROETHENE	ND	5.2	.48
,3-DICHLOROPROPENE	ND	5.2	.42
BROMOCHLOROMETHANE	ND	5.2	.38
HYLBENZENE	ND	5.2	.48
BE	ND	10	.79
THYLENE CHLORIDE	ND	10	3.1
YRENE	ND	5.2	.36
TRACHLOROETHENE	ND	5.2	.35
OLUENE	ND	5.2	.6
RANS-1,2-DICHLOROETHENE	ND	5.2	.49
RANS-1,3-DICHLOROPROPENE	ND	5.2	.47
RICHLOROETHENE	ND	5.2	.64
INYL ACETATE	ND	52	.87
INYL CHLORIDE	ND	5.2	.61
YLENES	ND	5.2	1.2

JRROGATE PARAMETERS	% RECOVERY	QC LIMIT
,2-DICHLOROETHANE-D4	102	52-149
ROMOFLUOROBENZENE	120	65-135
OLUENE-D8	115	65-135

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

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

lient	: IT CORPORATION	Date Collected:	07/31/00
roject	: MCAS EL TORO/18609/D.O. 70	Date Received:	07/31/00
atch No.	: 00G216	Date Extracted:	08/01/00 19:56
ample ID:	18609-3350	Date Analyzed:	08/01/00 19:56
ab Samp ID:	G216-08	Dilution Factor:	1
ab File ID:	RHQ017	Matrix :	SOIL
xt Btch ID:	VOH0105	% Moisture :	2.9
alib. Ref.:	RHQ002	Instrument ID :	T-005

ARAMETERS	RESULTS (ug/kg)	PRL (ug/kg)	MDL (ug/kg)
,1,1-TRICHLOROETHANE	ND	5.1	.35
,1,2,2-TETRACHLOROETHANE	ND	5.1	.76
,1,2-TRICHLOROETHANE	ND	5.1	.68
,1-DICHLOROETHANE	ND	5.1	.54
,1-DICHLOROETHENE	ND	5.1	.49
,2-DICHLOROETHANE	ND	5.1	1
,2-DICHLOROPROPANE	ND	5.1	.56
-BUTANONE	ND	51	1.6
-CHLOROETHYLVINYLETHER	ND	51	.76
-HEXANONE	ND	51	1.5
-METHYL-2-PENTANONE	ND	51	2.9
CETONE	ND	51	3
ENZENE	ND	5.1	.54
ROMODICHLOROMETHANE	ND	5.1	.44
ROMOFORM	ND	5.1	.61
ROMOMETHANE	ND	5.1	3.7
ARBON DISULFIDE	ND	10	.34
ARBON TETRACHLORIDE	ND	5.1	.55
HLOROBENZENE	ND	5.1	.48
HLOROETHANE	ND	5.1	.95
HLOROFORM	ND	5.1	.54
HLOROMETHANE	ND	5.1	.54
IS-1,2-DICHLOROETHENE	ND	5.1	.47
IS-1,3-DICHLOROPROPENE	ND	5.1	.41
IBROMOCHLOROMETHANE	ND	5.1	.38
THYLBENZENE	ND	5.1	.47
TBE	ND	10	.78
ETHYLENE CHLORIDE	ND	10	3.1
TYRENE	ND	5.1	.35
ETRACHLOROETHENE	ND	5.1	.35
OLUENE	ND	5.1	.59
RANS-1,2-DICHLOROETHENE	ND	5.1	.49
RANS-1,3-DICHLOROPROPENE	ND	5.1	.46
RICHLOROETHENE	ND	5.1	.63
INYL ACETATE	ND	51	.85
INYL CHLORIDE	ND	5.1	.6
YLENES	ND	5.1	1.2

URROGATE PARAMETERS	% RECOVERY	QC LIMIT
,2-DICHLOROETHANE-D4	101	52-149
ROMOFLUOROBENZENE	101	65-135
OLUENE-D8	104	65-135

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

[illegible]	: IT CORPORATION	Date Collected:	07/31/00
[illegible]t	: MCAS EL TORO/18609/D.O. 70	Date Received:	07/31/00
[illegible] No.	: 00G216	Date Extracted:	08/02/00 05:54
ample ID:	18609-3351	Date Analyzed:	08/02/00 05:54
ab Samp ID:	G216-09	Dilution Factor:	500
ab File ID:	RHQ033	Matrix :	SOIL
kt Btch ID:	VOH0205	% Moisture :	26.1
alib. Ref.:	RHQ022	Instrument ID :	T-005

ARAMETERS	RESULTS (ug/kg)	PRL (ug/kg)	MDL (ug/kg)
,1,1-TRICHLOROETHANE	ND	3400	230
,1,2,2-TETRACHLOROETHANE	ND	3400	500
,1,2-TRICHLOROETHANE	ND	3400	440
,1-DICHLOROETHANE	ND	3400	350
,1-DICHLOROETHENE	ND	3400	320
,2-DICHLOROETHANE	ND	3400	670
,2-DICHLOROPROPANE	ND	3400	370
-BUTANONE	ND	34000	1000
-CHLOROETHYLVINYLETHER	ND	34000	500
-HEXANONE	ND	34000	990
-METHYL-2-PENTANONE	ND	34000	1900
CETONE	ND	34000	1900
ENZENE	ND	3400	360
ROMODICHLOROMETHANE	ND	3400	290
ROMOFORM	ND	3400	400
ROMOMETHANE	ND	3400	2400
ARBON DISULFIDE	ND	6800	230
ARBON TETRACHLORIDE	ND	3400	360
HLOROBENZENE	ND	3400	310
HLOROETHANE	ND	3400	620
HLOROFORM	ND	3400	350
[illegible]METHANE	ND	3400	360
[illegible]2-DICHLOROETHENE	ND	3400	310
[illegible],3-DICHLOROPROPENE	ND	3400	270
IBROMOCHLOROMETHANE	ND	3400	250
THYLBENZENE	860J	3400	310
TBE	ND	6800	510
ETHYLENE CHLORIDE	ND	6800	2000
TYRENE	ND	3400	230
ETRACHLOROETHENE	ND	3400	230
OLUENE	ND	3400	390
RANS-1,2-DICHLOROETHENE	ND	3400	320
RANS-1,3-DICHLOROPROPENE	ND	3400	300
RICHLOROETHENE	ND	3400	410
INYL ACETATE	ND	34000	560
INYL CHLORIDE	ND	3400	400
YLENES	ND	3400	770

URROGATE PARAMETERS	% RECOVERY	QC LIMIT
,2-DICHLOROETHANE-D4	98	52-149
ROMOFLUOROBENZENE	97	65-135
OLUENE-D8	101	65-135

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

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

Client : IT CORPORATION	Date Collected: 07/31/00
Project : MCAS EL TORO/18609/D.O. 70	Date Received: 07/31/00
Batch No. : 00G216	Date Extracted: 08/02/00 02:09
Sample ID: 18609-3352	Date Analyzed: 08/02/00 02:09
Lab Samp ID: G216-10	Dilution Factor: 1
Lab File ID: RHQ027	Matrix : SOIL
Ext Btch ID: VOH0205	% Moisture : 1.5
Calib. Ref.: RHQ022	Instrument ID : T-005

PARAMETERS	RESULTS (ug/kg)	PRL (ug/kg)	MDL (ug/kg)
1,1,1-TRICHLOROETHANE	ND	5.1	.35
1,1,2,2-TETRACHLOROETHANE	ND	5.1	.75
1,1,2-TRICHLOROETHANE	ND	5.1	.67
1,1-DICHLOROETHANE	ND	5.1	.53
1,1-DICHLOROETHENE	ND	5.1	.49
1,2-DICHLOROETHANE	ND	5.1	1
1,2-DICHLOROPROPANE	ND	5.1	.56
2-BUTANONE	ND	51	1.5
2-CHLOROETHYLVINYLETHER	ND	51	.75
2-HEXANONE	ND	51	1.5
4-METHYL-2-PENTANONE	ND	51	2.9
ACETONE	ND	51	2.9
BENZENE	ND	5.1	.53
BROMODICHLOROMETHANE	ND	5.1	.43
BROMOFORM	ND	5.1	.6
BROMOMETHANE	ND	5.1	3.6
CARBON DISULFIDE	ND	10	.34
CARBON TETRACHLORIDE	ND	5.1	.55
CHLOROBENZENE	ND	5.1	.47
CHLOROETHANE	ND	5.1	.94
CHLOROFORM	ND	5.1	.53
CHLOROMETHANE	ND	5.1	.54
CIS-1,2-DICHLOROETHENE	ND	5.1	.47
CIS-1,3-DICHLOROPROPENE	ND	5.1	.41
DIBROMOCHLOROMETHANE	ND	5.1	.37
ETHYLBENZENE	ND	5.1	.47
MTBE	ND	10	.77
METHYLENE CHLORIDE	ND	10	3.1
STYRENE	ND	5.1	.35
TETRACHLOROETHENE	ND	5.1	.34
TOLUENE	ND	5.1	.58
TRANS-1,2-DICHLOROETHENE	ND	5.1	.48
TRANS-1,3-DICHLOROPROPENE	ND	5.1	.46
TRICHLOROETHENE	ND	5.1	.62
VINYL ACETATE	ND	51	.84
VINYL CHLORIDE	ND	5.1	.59
XYLENES	ND	5.1	1.2

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	97	52-149
BROMOFLUOROBENZENE	105	65-135
TOLUENE-D8	102	65-135

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:	07/31/00
[illegible]	: MCAS EL TORO/18609/D.O. 70	Date Received:	07/31/00
[illegible]o.	: 00G216	Date Extracted:	08/02/00 02:46
mple ID:	18609-3353	Date Analyzed:	08/02/00 02:46
b Samp ID:	G216-11	Dilution Factor:	1
b File ID:	RHQ028	Matrix :	SOIL
t Btch ID:	VOH0205	% Moisture :	6.7
lib. Ref.:	RHQ022	Instrument ID :	T-005

RAMETERS	RESULTS (ug/kg)	PRL (ug/kg)	MDL (ug/kg)
1,1-TRICHLOROETHANE	ND	5.4	.36
1,2,2-TETRACHLOROETHANE	ND	5.4	.79
1,2-TRICHLOROETHANE	ND	5.4	.7
1-DICHLOROETHANE	ND	5.4	.56
1-DICHLOROETHENE	ND	5.4	.51
2-DICHLOROETHANE	ND	5.4	1.1
2-DICHLOROPROPANE	ND	5.4	.59
BUTANONE	ND	54	1.6
CHLOROETHYLVINYLETHER	ND	54	.79
HEXANONE	ND	54	1.6
METHYL-2-PENTANONE	ND	54	3
ETONE	ND	54	3.1
NZENE	ND	5.4	.56
OMODICHLOROMETHANE	ND	5.4	.45
OMOFORM	ND	5.4	.63
OMOMETHANE	ND	5.4	3.8
RBON DISULFIDE	ND	11	.36
RBON TETRACHLORIDE	ND	5.4	.58
LOROBENZENE	ND	5.4	.5
LOROETHANE	ND	5.4	.99
LOROFORM	ND	5.4	.56
[illegible]OMETHANE	ND	5.4	.56
[illegible]-DICHLOROETHENE	ND	5.4	.49
[illegible]3-DICHLOROPROPENE	ND	5.4	.43
BROMOCHLOROMETHANE	ND	5.4	.39
HYLBENZENE	ND	5.4	.49
BE	ND	11	.81
THYLENE CHLORIDE	ND	11	3.2
YRENE	ND	5.4	.37
TRACHLOROETHENE	ND	5.4	.36
LUENE	ND	5.4	.62
ANS-1,2-DICHLOROETHENE	ND	5.4	.51
ANS-1,3-DICHLOROPROPENE	ND	5.4	.48
ICHLOROETHENE	ND	5.4	.66
NYL ACETATE	ND	54	.89
NYL CHLORIDE	ND	5.4	.63
LENES	ND	5.4	1.2

RROGATE PARAMETERS	% RECOVERY	QC LIMIT
2-DICHLOROETHANE-D4	98	52-149
OMOFLUOROBENZENE	102	65-135
LUENE-D8	101	65-135

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

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

Client	: IT CORPORATION	Date Collected:	07/31/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	07/31/00
Batch No.	: 00G216	Date Extracted:	08/02/00 06:31
Sample ID:	18609-3354	Date Analyzed:	08/02/00 06:31
Lab Samp ID:	G216-12	Dilution Factor:	500
Lab File ID:	RHQ034	Matrix :	SOIL
Ext Btch ID:	VOH0205	% Moisture :	23.7
Calib. Ref.:	RHQ022	Instrument ID :	T-005

PARAMETERS	RESULTS (ug/kg)	PRL (ug/kg)	MDL (ug/kg)
1,1,1-TRICHLOROETHANE	ND	3300	220
1,1,2,2-TETRACHLOROETHANE	ND	3300	480
1,1,2-TRICHLOROETHANE	ND	3300	430
1,1-DICHLOROETHANE	ND	3300	340
1,1-DICHLOROETHENE	ND	3300	310
1,2-DICHLOROETHANE	ND	3300	650
1,2-DICHLOROPROPANE	ND	3300	360
2-BUTANONE	ND	33000	1000
2-CHLOROETHYLVINYLETHER	ND	33000	480
2-HEXANONE	ND	33000	960
4-METHYL-2-PENTANONE	ND	33000	1800
ACETONE	ND	33000	1900
BENZENE	ND	3300	340
BROMODICHLOROMETHANE	ND	3300	280
BROMOFORM	ND	3300	390
BROMOMETHANE	ND	3300	2300
CARBON DISULFIDE	ND	6600	220
CARBON TETRACHLORIDE	ND	3300	350
CHLOROBENZENE	ND	3300	300
CHLOROETHANE	ND	3300	600
CHLOROFORM	ND	3300	340
CHLOROMETHANE	ND	3300	350
CIS-1,2-DICHLOROETHENE	ND	3300	300
CIS-1,3-DICHLOROPROPENE	ND	3300	260
DIBROMOCHLOROMETHANE	ND	3300	240
ETHYLBENZENE	ND	3300	300
MTBE	ND	6600	500
METHYLENE CHLORIDE	ND	6600	2000
STYRENE	ND	3300	220
TETRACHLOROETHENE	ND	3300	220
TOLUENE	ND	3300	380
TRANS-1,2-DICHLOROETHENE	ND	3300	310
TRANS-1,3-DICHLOROPROPENE	ND	3300	290
TRICHLOROETHENE	ND	3300	400
VINYL ACETATE	ND	33000	540
VINYL CHLORIDE	ND	3300	380
XYLENES	ND	3300	740

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	97	52-149
BROMOFLUOROBENZENE	98	65-135
TOLUENE-D8	100	65-135

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:	07/31/00
[illegible]	: MCAS EL TORO/18609/D.O. 70	Date Received:	07/31/00
[illegible]o.	: 00G216	Date Extracted:	08/02/00 07:09
mple ID:	18609-3355	Date Analyzed:	08/02/00 07:09
ɔ Samp ID:	G216-13	Dilution Factor:	500
ɔ File ID:	RHQ035	Matrix :	SOIL
t Btch ID:	VOH0205	% Moisture :	28.8
lib. Ref.:	RHQ022	Instrument ID :	T-005

RAMETERS	RESULTS (ug/kg)	PRL (ug/kg)	MDL (ug/kg)
1,1-TRICHLOROETHANE	ND	3500	240
1,2,2-TETRACHLOROETHANE	ND	3500	520
1,2-TRICHLOROETHANE	ND	3500	460
1-DICHLOROETHANE	ND	3500	370
1-DICHLOROETHENE	ND	3500	340
2-DICHLOROETHANE	ND	3500	690
2-DICHLOROPROPANE	ND	3500	380
BUTANONE	ND	35000	1100
CHLOROETHYLVINYLETHER	ND	35000	520
HEXANONE	ND	35000	1000
METHYL-2-PENTANONE	ND	35000	2000
ETONE	ND	35000	2000
ZENE	ND	3500	370
OMODICHLOROMETHANE	ND	3500	300
OMOFORM	ND	3500	420
OMOMETHANE	ND	3500	2500
RBON DISULFIDE	ND	7000	230
RBON TETRACHLORIDE	ND	3500	380
.OROBENZENE	ND	3500	330
.OROETHANE	ND	3500	650
.OROFORM	ND	3500	370
.OROMETHANE	ND	3500	370
[illegible]-DICHLOROETHENE	ND	3500	320
[illegible]-DICHLOROPROPENE	ND	3500	280
BROMOCHLOROMETHANE	ND	3500	260
YLBENZENE	ND	3500	320
BE	ND	7000	530
THYLENE CHLORIDE	ND	7000	2100
YRENE	ND	3500	240
TRACHLOROETHENE	ND	3500	240
.UENE	ND	3500	400
ANS-1,2-DICHLOROETHENE	ND	3500	330
ANS-1,3-DICHLOROPROPENE	ND	3500	320
.CHLOROETHENE	ND	3500	430
NYL ACETATE	ND	35000	580
NYL CHLORIDE	ND	3500	410
.ENES	ND	3500	800

ROGATE PARAMETERS	% RECOVERY	QC LIMIT
2-DICHLOROETHANE-D4	97	52-149
OMOFLUOROBENZENE	96	65-135
.UENE-D8	102	65-135

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

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

lient	: IT CORPORATION	Date Collected:	07/31/00
roject	: MCAS EL TORO/18609/D.O. 70	Date Received:	07/31/00
atch No.	: 00G216	Date Extracted:	08/02/00 07:46
ample ID:	18609-3356	Date Analyzed:	08/02/00 07:46
ab Samp ID:	G216-14	Dilution Factor:	500
ab File ID:	RHQ036	Matrix :	SOIL
xt Btch ID:	VOH0205	% Moisture :	28.0
alib. Ref.:	RHQ022	Instrument ID :	T-005

ARAMETERS	RESULTS (ug/kg)	PRL (ug/kg)	MDL (ug/kg)
,1,1-TRICHLOROETHANE	ND	3500	240
,1,2,2-TETRACHLOROETHANE	ND	3500	510
,1,2-TRICHLOROETHANE	ND	3500	460
,1-DICHLOROETHANE	ND	3500	360
,1-DICHLOROETHENE	ND	3500	330
,2-DICHLOROETHANE	ND	3500	680
,2-DICHLOROPROPANE	ND	3500	380
-BUTANONE	ND	35000	1100
-CHLOROETHYLVINYLETHER	ND	35000	510
-HEXANONE	ND	35000	1000
-METHYL-2-PENTANONE	ND	35000	2000
CETONE	ND	35000	2000
ENZENE	ND	3500	370
ROMODICHLOROMETHANE	ND	3500	290
ROMOFORM	ND	3500	410
ROMOMETHANE	ND	3500	2500
ARBON DISULFIDE	ND	6900	230
ARBON TETRACHLORIDE	ND	3500	370
HLOROBENZENE	ND	3500	320
HLOROETHANE	ND	3500	640
HLOROFORM	ND	3500	360
HLOROMETHANE	ND	3500	370
IS-1,2-DICHLOROETHENE	ND	3500	320
IS-1,3-DICHLOROPROPENE	ND	3500	280
IBROMOCHLOROMETHANE	ND	3500	250
THYLBENZENE	390J	3500	320
ITBE	ND	6900	520
IETHYLENE CHLORIDE	ND	6900	2100
TYRENE	ND	3500	240
ETRACHLOROETHENE	ND	3500	230
OLUENE	ND	3500	400
RANS-1,2-DICHLOROETHENE	ND	3500	330
RANS-1,3-DICHLOROPROPENE	ND	3500	310
RICHLOROETHENE	ND	3500	420
INYL ACETATE	ND	35000	580
INYL CHLORIDE	ND	3500	410
YLENES	ND	3500	790

URROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	99	52-149
BROMOFLUOROBENZENE	95	65-135
TOLUENE-D8	101	65-135

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

lient	: IT CORPORATION	Date Collected:	07/31/00
ct	: MCAS EL TORO/18609/D.O. 70	Date Received:	07/31/00
No.	: 00G216	Date Extracted:	08/02/00 03:24
ample ID:	18609-3357	Date Analyzed:	08/02/00 03:24
ab Samp ID:	G216-15	Dilution Factor:	1
ab File ID:	RHQ029	Matrix :	SOIL
xt Btch ID:	VOH0205	% Moisture :	6.1
alib. Ref.:	RHQ022	Instrument ID :	T-005

ARAMETERS	RESULTS (ug/kg)	PRL (ug/kg)	MDL (ug/kg)
,1,1-TRICHLOROETHANE	ND	5.3	.36
,1,2,2-TETRACHLOROETHANE	ND	5.3	.79
,1,2-TRICHLOROETHANE	ND	5.3	.7
,1-DICHLOROETHANE	ND	5.3	.56
,1-DICHLOROETHENE	ND	5.3	.51
,2-DICHLOROETHANE	ND	5.3	1
,2-DICHLOROPROPANE	ND	5.3	.58
-BUTANONE	ND	53	1.6
-CHLOROETHYLVINYLETHER	ND	53	.79
-HEXANONE	ND	53	1.6
-METHYL-2-PENTANONE	ND	53	3
CETONE	ND	53	3.1
ENZENE	ND	5.3	.56
ROMODICHLOROMETHANE	ND	5.3	.45
ROMOFORM	ND	5.3	.63
ROMOMETHANE	ND	5.3	3.8
ARBON DISULFIDE	ND	11	.36
ARBON TETRACHLORIDE	ND	5.3	.57
HLOROBENZENE	ND	5.3	.49
HLOROETHANE	ND	5.3	.98
HLOROFORM	ND	5.3	.56
ROMOMETHANE	ND	5.3	.56
2-DICHLOROETHENE	ND	5.3	.49
,3-DICHLOROPROPENE	ND	5.3	.43
IBROMOCHLOROMETHANE	ND	5.3	.39
THYLBENZENE	ND	5.3	.49
TBE	ND	11	.81
ETHYLENE CHLORIDE	ND	11	3.2
TYRENE	ND	5.3	.36
ETRACHLOROETHENE	ND	5.3	.36
OLUENE	ND	5.3	.61
RANS-1,2-DICHLOROETHENE	ND	5.3	.5
RANS-1,3-DICHLOROPROPENE	ND	5.3	.48
RICHLOROETHENE	ND	5.3	.65
INYL ACETATE	ND	53	.88
INYL CHLORIDE	ND	5.3	.62
YLENES	ND	5.3	1.2

URROGATE PARAMETERS	% RECOVERY	QC LIMIT
,2-DICHLOROETHANE-D4	97	52-149
ROMOFLUOROBENZENE	108	65-135
OLUENE-D8	106	65-135

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

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

lient	: IT CORPORATION	Date Collected:	07/31/00
roject	: MCAS EL TORO/18609/D.O. 70	Date Received:	07/31/00
atch No.	: 00G216	Date Extracted:	08/02/00 04:01
ample ID:	18609-3358	Date Analyzed:	08/02/00 04:01
ab Samp ID:	G216-16	Dilution Factor:	1
ab File ID:	RHQ030	Matrix :	SOIL
xt Btch ID:	VOH0205	% Moisture :	9.6
alib. Ref.:	RHQ022	Instrument ID :	T-005

ARAMETERS	RESULTS (ug/kg)	PRL (ug/kg)	MDL (ug/kg)
,1,1-TRICHLOROETHANE	ND	5.5	.38
,1,2,2-TETRACHLOROETHANE	ND	5.5	.82
,1,2-TRICHLOROETHANE	ND	5.5	.73
,1-DICHLOROETHANE	ND	5.5	.58
,1-DICHLOROETHENE	ND	5.5	.53
,2-DICHLOROETHANE	ND	5.5	1.1
,2-DICHLOROPROPANE	ND	5.5	.61
-BUTANONE	ND	55	1.7
-CHLOROETHYLVINYLETHER	ND	55	.82
-HEXANONE	ND	55	1.6
-METHYL-2-PENTANONE	ND	55	3.1
CETONE	ND	55	3.2
ENZENE	ND	5.5	.58
ROMODICHLOROMETHANE	ND	5.5	.47
ROMOFORM	ND	5.5	.65
ROMOMETHANE	ND	5.5	4
ARBON DISULFIDE	ND	11	.37
ARBON TETRACHLORIDE	ND	5.5	.59
HLOROBENZENE	ND	5.5	.51
HLOROETHANE	ND	5.5	1
HLOROFORM	ND	5.5	.58
HLOROMETHANE	ND	5.5	.58
IS-1,2-DICHLOROETHENE	ND	5.5	.51
IS-1,3-DICHLOROPROPENE	ND	5.5	.44
IBROMOCHLOROMETHANE	ND	5.5	.41
THYLBENZENE	ND	5.5	.51
ITBE	ND	11	.84
IETHYLENE CHLORIDE	ND	11	3.3
TYRENE	ND	5.5	.38
ETRACHLOROETHENE	ND	5.5	.37
OLUENE	ND	5.5	.64
RANS-1,2-DICHLOROETHENE	ND	5.5	.52
RANS-1,3-DICHLOROPROPENE	ND	5.5	.5
RICHLOROETHENE	ND	5.5	.68
INYL ACETATE	ND	55	.92
INYL CHLORIDE	ND	5.5	.65
YLENES	ND	5.5	1.3

URROGATE PARAMETERS	% RECOVERY	QC LIMIT
,2-DICHLOROETHANE-D4	97	52-149
BROMOFLUOROBENZENE	102	65-135
OLUENE-D8	104	65-135

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

[illegible]nt	: IT CORPORATION	Date Collected:	07/31/00
[illegible]t	: MCAS EL TORO/18609/D.O. 70	Date Received:	07/31/00
[illegible] No.	: 00G216	Date Extracted:	08/02/00 04:39
[illegible]mple ID:	18609-3359	Date Analyzed:	08/02/00 04:39
[illegible]ab Samp ID:	G216-17	Dilution Factor:	1
[illegible]ab File ID:	RHQ031	Matrix :	SOIL
[illegible]xt Btch ID:	VOH0205	% Moisture :	15.2
[illegible]alib. Ref.:	RHQ022	Instrument ID :	T-005

ARAMETERS	RESULTS (ug/kg)	PRL (ug/kg)	MDL (ug/kg)
,1,1-TRICHLOROETHANE	ND	5.9	.4
,1,2,2-TETRACHLOROETHANE	ND	5.9	.87
,1,2-TRICHLOROETHANE	ND	5.9	.77
,1-DICHLOROETHANE	ND	5.9	.62
,1-DICHLOROETHENE	ND	5.9	.57
,2-DICHLOROETHANE	ND	5.9	1.2
,2-DICHLOROPROPANE	ND	5.9	.65
-BUTANONE	ND	59	1.8
-CHLOROETHYLVINYLETHER	ND	59	.87
-HEXANONE	ND	59	1.7
-METHYL-2-PENTANONE	ND	59	3.3
CETONE	ND	59	3.4
ENZENE	ND	5.9	.62
ROMODICHLOROMETHANE	ND	5.9	.5
ROMOFORM	ND	5.9	.7
ROMOMETHANE	ND	5.9	4.2
ARBON DISULFIDE	ND	12	.39
ARBON TETRACHLORIDE	ND	5.9	.63
HLOROBENZENE	ND	5.9	.55
HLOROETHANE	ND	5.9	1.1
HLOROFORM	ND	5.9	.62
[illegible]OMETHANE	ND	5.9	.62
[illegible]2-DICHLOROETHENE	ND	5.9	.54
IS-1,3-DICHLOROPROPENE	ND	5.9	.47
IBROMOCHLOROMETHANE	ND	5.9	.43
THYLBENZENE	ND	5.9	.54
TBE	ND	12	.89
ETHYLENE CHLORIDE	ND	12	3.6
TYRENE	ND	5.9	.4
ETRACHLOROETHENE	ND	5.9	.4
OLUENE	ND	5.9	.68
RANS-1,2-DICHLOROETHENE	ND	5.9	.56
RANS-1,3-DICHLOROPROPENE	ND	5.9	.53
RICHLOROETHENE	ND	5.9	.72
INYL ACETATE	ND	59	.98
INYL CHLORIDE	ND	5.9	.69
YLENES	ND	5.9	1.3

URROGATE PARAMETERS	% RECOVERY	QC LIMIT
,2-DICHLOROETHANE-D4	94	52-149
ROMOFLUOROBENZENE	103	65-135
OLUENE-D8	104	65-135

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

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

Client	: IT CORPORATION	Date Collected:	07/31/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	07/31/00
Batch No.	: 00G216	Date Extracted:	08/02/00 05:16
Sample ID:	18609-3360	Date Analyzed:	08/02/00 05:16
Lab Samp ID:	G216-18	Dilution Factor:	1
Lab File ID:	RHQ032	Matrix :	SOIL
Ext Btch ID:	VOH0205	% Moisture :	9.7
Calib. Ref.:	RHQ022	Instrument ID :	T-005

PARAMETERS	RESULTS (ug/kg)	PRL (ug/kg)	MDL (ug/kg)
1,1,1-TRICHLOROETHANE	ND	5.5	.38
1,1,2,2-TETRACHLOROETHANE	ND	5.5	.82
1,1,2-TRICHLOROETHANE	ND	5.5	.73
1,1-DICHLOROETHANE	ND	5.5	.58
1,1-DICHLOROETHENE	ND	5.5	.53
1,2-DICHLOROETHANE	ND	5.5	1.1
1,2-DICHLOROPROPANE	ND	5.5	.61
2-BUTANONE	ND	55	1.7
2-CHLOROETHYLVINYLETHER	ND	55	.82
2-HEXANONE	ND	55	1.6
4-METHYL-2-PENTANONE	ND	55	3.1
ACETONE	ND	55	3.2
BENZENE	ND	5.5	.58
BROMODICHLOROMETHANE	ND	5.5	.47
BROMOFORM	ND	5.5	.66
BROMOMETHANE	ND	5.5	4
CARBON DISULFIDE	ND	11	.37
CARBON TETRACHLORIDE	ND	5.5	.59
CHLOROBENZENE	ND	5.5	.51
CHLOROETHANE	ND	5.5	1
CHLOROFORM	ND	5.5	.58
CHLOROMETHANE	ND	5.5	.58
CIS-1,2-DICHLOROETHENE	ND	5.5	.51
CIS-1,3-DICHLOROPROPENE	ND	5.5	.45
DIBROMOCHLOROMETHANE	ND	5.5	.41
ETHYLBENZENE	ND	5.5	.51
MTBE	ND	11	.84
METHYLENE CHLORIDE	ND	11	3.3
STYRENE	ND	5.5	.38
TETRACHLOROETHENE	ND	5.5	.37
TOLUENE	ND	5.5	.64
TRANS-1,2-DICHLOROETHENE	ND	5.5	.52
TRANS-1,3-DICHLOROPROPENE	ND	5.5	.5
TRICHLOROETHENE	ND	5.5	.68
VINYL ACETATE	ND	55	.92
VINYL CHLORIDE	ND	5.5	.65
XYLENES	ND	5.5	1.3

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	97	52-149
BROMOFLUOROBENZENE	98	65-135
TOLUENE-D8	102	65-135

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:	07/31/00
[illegible]	: MCAS EL TORO/18609/D.O. 70	Date Received:	07/31/00
[illegible] No.	: 00G216	Date Extracted:	08/01/00 17:20
mple ID:	18609-3361	Date Analyzed:	08/01/00 17:20
b Samp ID:	G216-19	Dilution Factor:	1
b File ID:	RHQ013	Matrix :	WATER
t Btch ID:	VOH0105	% Moisture :	NA
lib. Ref.:	RHQ002	Instrument ID :	T-005

RAMETERS	RESULTS (ug/L)	PRL (ug/L)	MDL (ug/L)
1,1-TRICHLOROETHANE	ND	5	.91
1,2,2-TETRACHLOROETHANE	ND	5	1.1
1,2-TRICHLOROETHANE	ND	5	.83
1-DICHLOROETHANE	ND	5	.65
1-DICHLOROETHENE	ND	5	.86
2-DICHLOROETHANE	ND	5	.95
2-DICHLOROPROPANE	ND	5	.73
BUTANONE	ND	50	6.7
CHLOROETHYLVINYLETHER	ND	50	1.3
HEXANONE	ND	50	5.6
METHYL-2-PENTANONE	ND	50	3.6
ETONE	ND	50	9.6
NZENE	ND	5	.77
OMODICHLOROMETHANE	ND	5	.82
OMOFORM	ND	5	.74
OMOMETHANE	ND	5	1.9
RBON DISULFIDE	ND	5	.61
RBON TETRACHLORIDE	ND	5	.83
LOROBENZENE	ND	5	1.1
LOROETHANE	ND	5	1.7
LOROFORM	ND	5	.67
[illegible]METHANE	ND	5	.67
[illegible]2-DICHLOROETHENE	ND	5	.79
S[illegible],3-DICHLOROPROPENE	ND	5	.79
BROMOCHLOROMETHANE	ND	5	.71
HYLBENZENE	ND	5	1
BE	ND	10	.77
THYLENE CHLORIDE	ND	5	1.4
YRENE	ND	5	.87
TRACHLOROETHENE	ND	5	1.1
LUENE	ND	5	.99
ANS-1,2-DICHLOROETHENE	ND	5	.73
ANS-1,3-DICHLOROPROPENE	ND	5	.82
ICHLOROETHENE	ND	5	.89
NYL ACETATE	ND	50	1.4
NYL CHLORIDE	ND	5	2.5
LENES	ND	5	3.1

IRROGATE PARAMETERS	% RECOVERY	QC LIMIT
2-DICHLOROETHANE-D4	98	62-139
OMOFLUOROBENZENE	99	75-125
LUENE-D8	103	75-125

L: Project Reporting Limit
: Out side of QC Limit
: An estimated value between PRL and MDL
: Value exceed the upper level of the initial calibration
: Found in the associated blank
: 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:	08/01/00
Batch No.	: 00G216	Date Extracted:	08/01/00 13:15
Sample ID:	MBLK1W	Date Analyzed:	08/01/00 13:15
Lab Samp ID:	VOH0105Q	Dilution Factor:	1
Lab File ID:	RHQ007	Matrix :	WATER
Ext Btch ID:	VOH0105	% Moisture :	NA
Calib. Ref.:	RHQ002	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	93	62-139
BROMOFLUOROBENZENE	104	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

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

LIENT: IT CORPORATION
ROJECT: MCAS EL TORO/18609/D.O. 70
NO.: 00G216
D: METHOD 5030A/8260A

ATRIX:	WATER			% MOISTURE:	NA
ILUTION FACTOR:	1	1	1		
AMPLE ID:	MBLK1W				
AB SAMP ID:	VOH0105Q	VOH0105L	VOH0105C		
AB FILE ID:	RHQ007	RHQ004	RHQ005		
ATE EXTRACTED:	08/01/0013:15	08/01/0011:18	08/01/0011:57	DATE COLLECTED:	NA
ATE ANALYZED:	08/01/0013:15	08/01/0011:18	08/01/0011:57	DATE RECEIVED:	08/01/00
EP. BATCH:	VOH0105	VOH0105	VOH0105		
ALIB. REF:	RHQ002	RHQ002	RHQ002		

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 (%)
1-Dichloroethene	ND	20	20.1	100	20	20.6	103	3	75-125	20
enzene	ND	20	21.2	106	20	21.2	106	0	75-125	20
lorobenzene	ND	20	20.6	103	20	20.6	103	0	75-125	20
luene	ND	20	21.5	108	20	22	110	2	74-125	20
ichloroethene	ND	20	21.1	105	20	21.3	106	1	71-125	20

URROGATE PARAMETER	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	QC LIMIT (%)
2-Dichlorethane-d4	50	48.1	96	50	47.4	95	62-139
omofluorobenzene	50	50.1	100	50	51.6	103	75-125
e-d8	50	51.4	103	50	52.4	105	75-125

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

Client	: IT CORPORATION	Date Collected:	NA
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	08/01/00
Batch No.	: 00G216	Date Extracted:	08/01/00 13:15
Sample ID:	MBLK1S	Date Analyzed:	08/01/00 13:15
Lab Samp ID:	VOH0105Q	Dilution Factor:	1
Lab File ID:	RHQ007	Matrix :	SOIL
Ext Btch ID:	VOH0105	% Moisture :	NA
Calib. Ref.:	RHQ002	Instrument ID :	T-005

PARAMETERS	RESULTS (ug/kg)	PRL (ug/kg)	MDL (ug/kg)
1,1,1-TRICHLOROETHANE	ND	5	.34
1,1,2,2-TETRACHLOROETHANE	ND	5	.74
1,1,2-TRICHLOROETHANE	ND	5	.66
1,1-DICHLOROETHANE	ND	5	.52
1,1-DICHLOROETHENE	ND	5	.48
1,2-DICHLOROETHANE	ND	5	.99
1,2-DICHLOROPROPANE	ND	5	.55
2-BUTANONE	ND	50	1.5
2-CHLOROETHYLVINYLETHER	ND	50	.74
2-HEXANONE	ND	50	1.5
4-METHYL-2-PENTANONE	ND	50	2.8
ACETONE	ND	50	2.9
BENZENE	ND	5	.53
BROMODICHLOROMETHANE	ND	5	.42
BROMOFORM	ND	5	.59
BROMOMETHANE	ND	5	3.6
CARBON DISULFIDE	ND	10	.33
CARBON TETRACHLORIDE	ND	5	.54
CHLOROBENZENE	ND	5	.46
CHLOROETHANE	ND	5	.92
CHLOROFORM	ND	5	.52
CHLOROMETHANE	ND	5	.53
CIS-1,2-DICHLOROETHENE	ND	5	.46
CIS-1,3-DICHLOROPROPENE	ND	5	.4
DIBROMOCHLOROMETHANE	ND	5	.37
ETHYLBENZENE	ND	5	.46
MTBE	ND	10	.76
METHYLENE CHLORIDE	ND	10	3
STYRENE	ND	5	.34
TETRACHLOROETHENE	ND	5	.34
TOLUENE	ND	5	.58
TRANS-1,2-DICHLOROETHENE	ND	5	.47
TRANS-1,3-DICHLOROPROPENE	ND	5	.45
TRICHLOROETHENE	ND	5	.61
VINYL ACETATE	ND	50	.83
VINYL CHLORIDE	ND	5	.58
XYLENES	ND	5	1.1

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	93	52-149
BROMOFLUOROBENZENE	104	65-135
TOLUENE-D8	104	65-135

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:	NA
E	: MCAS EL TORO/18609/D.O. 70	Date Received:	08/01/00
No.	: 00G216	Date Extracted:	08/01/00 13:55
mple ID:	M8LK2S	Date Analyzed:	08/01/00 13:55
ib Samp ID:	VOH0205Q	Dilution Factor:	50
ib File ID:	RHQ008	Matrix :	SOIL
t Btch ID:	VOH0105	% Moisture :	NA
ilib. Ref.:	RHQ002	Instrument ID :	T-005

RAMETERS	RESULTS (ug/kg)	PRL (ug/kg)	MDL (ug/kg)
1,1-TRICHLOROETHANE	ND	250	17
1,2,2-TETRACHLOROETHANE	ND	250	37
1,2-TRICHLOROETHANE	ND	250	33
1-DICHLOROETHANE	ND	250	26
1-DICHLOROETHENE	ND	250	24
2-DICHLOROETHANE	ND	250	49
2-DICHLOROPROPANE	ND	250	27
BUTANONE	ND	2500	76
CHLOROETHYLVINYLETHER	ND	2500	37
HEXANONE	ND	2500	74
METHYL-2-PENTANONE	ND	2500	140
ETONE	ND	2500	140
NZENE	ND	250	26
OMODICHLOROMETHANE	ND	250	21
OMOFORM	ND	250	30
OMOMETHANE	ND	250	180
RBON DISULFIDE	ND	500	17
RBON TETRACHLORIDE	ND	250	27
LOROBENZENE	ND	250	23
LOROETHANE	ND	250	46
LOROFORM	ND	250	26
METHANE	ND	250	26
2-DICHLOROETHENE	ND	250	23
S-1,3-DICHLOROPROPENE	ND	250	20
BROMOCHLOROMETHANE	ND	250	18
HYLBENZENE	ND	250	23
BE	ND	500	38
THYLENE CHLORIDE	ND	500	150
YRENE	ND	250	17
TRACHLOROETHENE	ND	250	17
LUENE	ND	250	29
ANS-1,2-DICHLOROETHENE	ND	250	24
ANS-1,3-DICHLOROPROPENE	ND	250	22
ICHLOROETHENE	ND	250	31
NYL ACETATE	ND	2500	41
NYL CHLORIDE	ND	250	29
LENES	ND	250	57

JRROGATE PARAMETERS	% RECOVERY	QC LIMIT
,2-DICHLOROETHANE-D4	96	52-149
ROMOFLUOROBENZENE	105	65-135
LUENE-D8	105	65-135

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

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

LIENT: IT CORPORATION
ROJECT: MCAS EL TORO/18609/D.O. 70
ATCH NO.: 00G216
ETHOD: METHOD 5030A/8260A

ATRIX: SOIL % MOISTURE: NA

ILUTION FACTOR:	1	1	1
AMPLE ID:	MBLK1S		
AB SAMP ID:	VOH0105Q	VOH0105L	VOH0105C
AB FILE ID:	RHQ007	RHQ004	RHQ005
ATE EXTRACTED:	08/01/0013:15	08/01/0011:18	08/01/0011:57
ATE ANALYZED:	08/01/0013:15	08/01/0011:18	08/01/0011:57
REP. BATCH:	VOH0105	VOH0105	VOH0105
ALIB. REF:	RHQ002	RHQ002	RHQ002

DATE COLLECTED: NA
DATE RECEIVED: 08/01/00

CCESSION:

ARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
,1-Dichloroethene	ND	20	20.1	100	20	20.6	103	3	65-135	30
enzene	ND	20	21.2	106	20	21.2	106	0	65-135	30
hlorobenzene	ND	20	20.6	103	20	20.6	103	0	65-135	30
oluene	ND	20	21.5	108	20	22	110	2	64-135	30
richloroethene	ND	20	21.1	105	20	21.3	106	1	61-135	30

URROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT (%)
,2-Dichlorethane-d4	50	48.1	96	50	47.4	95	52-149
romofluorobenzene	50	50.1	100	50	51.6	103	65-135
oluene-d8	50	51.4	103	50	52.4	105	65-135

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

lient	: IT CORPORATION	Date Collected:	NA
t	: MCAS EL TORO/18609/D.O. 70	Date Received:	08/02/00
No.	: 00G216	Date Extracted:	08/02/00 01:31
ample ID:	MBLK3S	Date Analyzed:	08/02/00 01:31
ab Samp ID:	VOH0205Q	Dilution Factor:	1
ab File ID:	RHQ026	Matrix :	SOIL
xt Btch ID:	VOH0205	% Moisture :	NA
alib. Ref.:	RHQ022	Instrument ID :	T-005

ARAMETERS	RESULTS (ug/kg)	PRL (ug/kg)	MDL (ug/kg)
,1,1-TRICHLOROETHANE	ND	5	.34
,1,2,2-TETRACHLOROETHANE	ND	5	.74
,1,2-TRICHLOROETHANE	ND	5	.66
,1-DICHLOROETHANE	ND	5	.52
,1-DICHLOROETHENE	ND	5	.48
,2-DICHLOROETHANE	ND	5	.99
,2-DICHLOROPROPANE	ND	5	.55
-BUTANONE	ND	50	1.5
-CHLOROETHYLVINYLETHER	ND	50	.74
-HEXANONE	ND	50	1.5
-METHYL-2-PENTANONE	ND	50	2.8
CETONE	ND	50	2.9
ENZENE	ND	5	.53
ROMODICHLOROMETHANE	ND	5	.42
ROMOFORM	ND	5	.59
ROMOMETHANE	ND	5	3.6
ARBON DISULFIDE	ND	10	.33
ARBON TETRACHLORIDE	ND	5	.54
HLOROBENZENE	ND	5	.46
HLOROETHANE	ND	5	.92
HLOROFORM	ND	5	.52
HLOROMETHANE	ND	5	.53
2-DICHLOROETHENE	ND	5	.46
,3-DICHLOROPROPENE	ND	5	.4
BROMOCHLOROMETHANE	ND	5	.37
THYLBENZENE	ND	5	.46
TBE	ND	10	.76
ETHYLENE CHLORIDE	ND	10	3
TYRENE	ND	5	.34
ETRACHLOROETHENE	ND	5	.34
OLUENE	ND	5	.58
RANS-1,2-DICHLOROETHENE	ND	5	.47
RANS-1,3-DICHLOROPROPENE	ND	5	.45
RICHLOROETHENE	ND	5	.61
INYL ACETATE	ND	50	.83
INYL CHLORIDE	ND	5	.58
YLENES	ND	5	1.1

URROGATE PARAMETERS	% RECOVERY	QC LIMIT
,2-DICHLOROETHANE-D4	95	52-149
ROMOFLUOROBENZENE	102	65-135
OLUENE-D8	102	65-135

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

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

:LIENT: IT CORPORATION
ROJECT: MCAS EL TORO/18609/D.O. 70
ATCH NO.: 00G216
ETHOD: METHOD 5030A/8260A

ATRIX:	SOIL			% MOISTURE:	NA
ILUTION FACTOR:	1	1	1		
AMPLE ID:	MBLK3S				
AB SAMP ID:	VOH0205Q	VOH0205L	VOH0205C		
AB FILE ID:	RHQ026	RHQ023	RHQ024		
ATE EXTRACTED:	08/02/0001:31	08/01/0023:38	08/02/0000:16	DATE COLLECTED:	NA
ATE ANALYZED:	08/02/0001:31	08/01/0023:38	08/02/0000:16	DATE RECEIVED:	08/02/00
REP. BATCH:	VOH0205	VOH0205	VOH0205		
ALIB. REF:	RHQ022	RHQ022	RHQ022		

CCESSION:

ARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
,1-Dichloroethene	ND	20	18.9	95	20	18.2	91	4	65-135	30
enzene	ND	20	21.1	105	20	20.5	103	3	65-135	30
hlorobenzene	ND	20	20.7	103	20	20.2	101	2	65-135	30
oluene	ND	20	21.6	108	20	21.3	107	1	64-135	30
richloroethene	ND	20	25.3	126	20	24.9	124	2	61-135	30

URROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT (%)
,2-Dichlorethane-d4	50	49	98	50	48.4	97	52-149
romofluorobenzene	50	50.4	101	50	50.6	101	65-135
oluene-d8	50	50.8	102	50	50.9	102	65-135

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

IENT: IT CORPORATION
CT: MCAS EL TORO/18609/D.O. 70
O.: 00G216
: METHOD 5030A/8260A

TRIX:	SOIL			% MOISTURE:	4.1
LUTION FACTOR:	1	1	1		
MPLE ID:	18609-3349				
B SAMP ID:	G216-07	G216-07M	G216-07S		
B FILE ID:	RHQ037	RHQ038	RHQ039		
TE EXTRACTED:	08/02/0008:25	08/02/0009:02	08/02/0009:40	DATE COLLECTED:	07/31/00
TE ANALYZED:	08/02/0008:25	08/02/0009:02	08/02/0009:40	DATE RECEIVED:	07/31/00
EP. BATCH:	VOH0205	VOH0205	VOH0205		
LIB. REF:	RHQ022	RHQ022	RHQ022		

CESSION:

RAMETER	SMPL RSLT (ug/kg)	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	SPIKE AMT (ug/kg)	MSD RSLT (ug/kg)	MSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
1-Dichloroethene	ND	52.1	52.4	100	52.1	51.2	98	2	65-135	30
nzene	ND	52.1	65.1	125	52.1	62.4	120	4	65-135	30
lorobenzene	ND	52.1	52	100	52.1	51.9	100	0	65-135	30
luene	ND	52.1	61.5	118	52.1	59.7	115	3	64-135	30
ichloroethene	ND	52.1	64.6	124	52.1	63.2	121	2	61-135	30

RROGATE PARAMETER	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	SPIKE AMT (ug/kg)	MSD RSLT (ug/kg)	MSD % REC	QC LIMIT (%)
2-Dichlorethane-d4	52.1	51.7	99	52.1	51.5	99	52-149
omofluorobenzene	52.1	59.5	114	52.1	61	117	65-135
e-d8	52.1	58.8	113	52.1	58	111	65-135

: Out side of QC Limit

COMPLETED/80 [illegible]

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

CHAIN-OF-CUSTODY RECORD

PROJECT DATA MANAGER'S COPY

A 12081

FORM 0019 REV. 9-99

00H011

TF398 - Confirmation Drilling

LAB COORDINATOR: M. Concepcion	LAB COORDINATOR'S PHONE: 949-660-7550	LAB COORDINATOR'S FAX: 949-475-5433	LABORATORY SERVICE ID: 00G210	LABORATORY CONTACT: EMAX	MAIL REPORT (COMPANY NAME): IT Corp
PROJECT NAME: TF-398 C.B.	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: 949-451-1667	PROJECT FAX: 949-451-1672	LABORATORY ADDRESS: 630 Maple Ave.		ADDRESS: 3347 Michelson #200
PROJECT ADDRESS: —	CITY, STATE AND ZIP CODE: —	CLIENT: SWDIV	CITY, STATE AND ZIP CODE: Torrance, CA 92 NJ.		CITY, STATE AND ZIP CODE: Irvine, CA 92612
PROJECT MANAGER: B. Sedlak	PROJECT MANAGER'S PHONE: 949-660-5446	PROJECT MANAGER'S FAX: 949-474-8309			

Sample Identifier	Matrix	Date (2000)	Time	Preserved	# of Cont.	QC Level	T.A.T.	Analyses: 8260	TPH-gas	TPH-Diesel	TPH-SPS					Comments (Analyze from "X")
18609-3362	W	8-1	0900	4°C	2	3	24hr	X								
18609-3363	S	8-1	0825	4°C	1	3	24hr	X	X	X	X					
18609-3364	S	↓	0830	↓	↓	3	↓	↓	↓	↓	↓					
18609-3365	↓	↓	0840	↓	↓	3	↓	↓	↓	↓	↓					+ High Conc.
18609-3366	↓	↓	0845	↓	↓	4	↓	↓	↓	↓	↓					+ high Conc.
18609-3367	↓	↓	0855	↓	↓	3	↓	↓	↓	↓	↓					+ high Conc.
18609-3368	↓	↓	0930	↓	↓	3	↓	↓	↓	↓	↓					
18609-3369	↓	↓	0935	↓	↓	3	↓	↓	↓	↓	↓					
18609-3370	↓	↓	0940	↓	↓	3	↓	↓	↓	↓	↓					
18609-3371	↓	↓	0950	↓	↓	3	↓	↓	↓	↓	↓					

SAMPLES COLLECTED BY: N. Jefferson

COURIER AND AIR BILL NUMBER: Courier

COOLER TEMPERATURE UPON RECEIPT:

RELINQUISHED BY	RECEIVED BY	DATE	TIME	SAMPLE'S CONDITION UPON RECEIPT
[illegible]	[illegible]	[illegible]	3:10	

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 - Confirmation Drilling.

Sample Point Location	G	C	F	QC
① Trip Blank	X			X
② ~~SCF~~ 398-SCB-03 @ 5.0'-5.5' bgs	X			
③ 398SCB-03 @ 10.0'-10.5' bgs	X			
④ 398SCB-03 @ ~~30.~~ 30.0'-30.5' bgs	X			
⑤ 398SCB-03 @ 29.5'-30.0' bgs (Dup)	X			X
⑥ 398-SCB-03 @ 40.0'-40.5' bgs	X			
⑦ 398SCB-01 @ 5.0'-5.5' bgs	X			
⑧ 398-SCB-01 @ 10.0'-10.5' bgs	X			
⑨ 398SCB-01 20.0'-20.5' bgs	X			
⑩ 398-SCB-01 40.0-40.5' bgs	X			

Comments: due: 8-3-00 rec'd 8/2/00

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

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 12082

TF398 - Confirmation Drilling

FORM 0019 REV. 9-99

LAB COORDINATOR	LAB COORDINATOR'S PHONE	LAB COORDINATOR'S FAX	LABORATORY SERVICE ID	LABORATORY CONTACT	MAIL REPORT (COMPANY NAME)
M. Concepcion	949-660-7550	949-475-5433	Holl	EMAX	IT Group

PROJECT NAME	PROJECT LOCATION	PROJECT NUMBER	LABORATORY PHONE	LABORATORY FAX	RECIPIENT NAME
TF 398 - C.B.	MCAS El Toro, CA	18609	310-618-8889	310-618-0818	Dwayne Ishida

PROJECT CONTACT	PROJECT PHONE NUMBER	PROJECT FAX	LABORATORY ADDRESS	ADDRESS
M. Concepcion	949-451-1667	949-451-1672	630 Maple Ave.	3347 Michelson #200

PROJECT ADDRESS	CITY, STATE AND ZIP CODE	CLIENT	CITY, STATE AND ZIP CODE	CITY, STATE AND ZIP CODE
—	—	SWDIV	Torrance, CA	Irvine, CA 92612

PROJECT MANAGER	PROJECT MANAGER'S PHONE	PROJECT MANAGER'S FAX
J. Sedlak	949-660-5446	949-474-8307

Sample Identifier	Matrix	Date (2000)	Time	Preserved	# of Cont.	QC Level	T.A.T.	Analyses: 8260	8015-gas	8015-Diesel	8015-IPS	Hold				Comments
18609-3372	S	8-1	1045	4°C	1	3	24hr	X	X	X	X					
18609-3373	S	8-1	1050	↓	1	3	↓	↓	↓	↓	↓					
18609-3374	S	8-1	1100	↓	1	3	↓	↓	↓	↓	↓					
18609-3375	S	8-1	1120	↓	1	3	↓	↓	↓	↓	↓					
18609-3376	W	8-1	1300	↓	6	3	↓	↓	↓	↓	↓		X			hold sample 18609-3376
18609-3377	S	8-1	1405	↓	1	3	↓	↓	↓	↓	↓					
18609-3378	S	8-1	1425	↓	1	3	↓	↓	↓	↓	↓					
18609-3379	S	8-1	1430	↓	1	3	↓	↓	↓	↓	↓					
18609-3380	S	8-1	1455	↓	1	3	↓	↓	↓	↓	↓					

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
[signature]	[signature]	8-1-00	3:10	

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-Confirmation Drilling

Sample Point Location	G	C	F	QC
① 398 SCB-27 @ 5.0-5.5' bgs	X			
② 398-SCB-27 @ 10.0'-10.5' bgs	X			
③ 398-SCB-27 @ 20.0'-20.5' bgs	X			
④ 398-SCB-27 @ 40.0'-40.5' bgs	X			
⑤ ~~398-SCW-2~~ 398-Equipment Rinsate	X			X
⑥ 398-HP-01 @ 5.0'-5.5' bgs	X			
⑦ 398-HP-01 @ 10.0'-10.5' bgs	X			
⑧ 398-HP-01 @ 20.0'-20.5' bgs	X			
⑨ 398-HP-01 @ 40.0'-40.5' bgs	X			

Comments: due: 8-3-00 rec'd 8/7/00

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

5170B7

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

Date: 08-08-2000
EMAX Batch No.: 00H011

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 08/01/00. The data reported include :

Sample ID	Control #	Col Date	Matrix	Analysis
18609-3362	H011-01	08/01/00	WATER	VOLATILE ORGANICS BY GC/MS
18609-3363	H011-02	08/01/00	SOIL	TPH DIESEL
				TPH GASOLINE
				VOLATILE ORGANICS BY GC/MS
				TPH JP-5
18609-3364	H011-03	08/01/00	SOIL	TPH DIESEL
				TPH GASOLINE
				VOLATILE ORGANICS BY GC/MS
				TPH JP-5
18609-3365	H011-04	08/01/00	SOIL	TPH DIESEL
				TPH GASOLINE
				VOLATILE ORGANICS BY GC/MS
				TPH JP-5
18609-3366	H011-05	08/01/00	SOIL	TPH DIESEL
				TPH GASOLINE
				VOLATILE ORGANICS BY GC/MS
				TPH JP-5
18609-3367	H011-06	08/01/00	SOIL	TPH DIESEL
				TPH GASOLINE

Sample ID	Control #	Col Date	Matrix	Analysis
				VOLATILE ORGANICS BY GC/MS
				TPH JP-5
18609-3368	H011-07	08/01/00	SOIL	TPH DIESEL
				TPH GASOLINE
				VOLATILE ORGANICS BY GC/MS
				TPH JP-5
18609-3369	H011-08	08/01/00	SOIL	TPH DIESEL
				TPH GASOLINE
				VOLATILE ORGANICS BY GC/MS
				TPH JP-5
18609-3370	H011-09	08/01/00	SOIL	TPH DIESEL
				TPH GASOLINE
				VOLATILE ORGANICS BY GC/MS
				TPH JP-5
18609-3371	H011-10	08/01/00	SOIL	TPH DIESEL
				TPH GASOLINE
				VOLATILE ORGANICS BY GC/MS
				TPH JP-5
18609-3372	H011-11	08/01/00	SOIL	TPH DIESEL
				TPH GASOLINE
				VOLATILE ORGANICS BY GC/MS
				TPH JP-5
18609-3373	H011-12	08/01/00	SOIL	TPH DIESEL
				TPH GASOLINE
				VOLATILE ORGANICS BY GC/MS
				TPH JP-5
18609-3374	H011-13	08/01/00	SOIL	TPH DIESEL
				TPH GASOLINE
				VOLATILE ORGANICS BY GC/MS
				TPH JP-5
18609-3375	H011-14	08/01/00	SOIL	TPH DIESEL
				TPH GASOLINE
				VOLATILE ORGANICS BY GC/MS
				TPH JP-5
18609-3376	H011-15	08/01/00	WATER	HOLD
18609-3377	H011-16	08/01/00	SOIL	TPH DIESEL
				TPH GASOLINE
				VOLATILE ORGANICS BY GC/MS
				TPH JP-5
18609-3378	H011-17	08/01/00	SOIL	TPH DIESEL
				TPH GASOLINE

Sample ID	Control #	Col Date	Matrix	Analysis
				VOLATILE ORGANICS BY GC/MS
				TPH JP-5
18609-3379	H011-18	08/01/00	SOIL	TPH DIESEL
				TPH GASOLINE
				VOLATILE ORGANICS BY GC/MS
				TPH JP-5
18609-3380	H011-19	08/01/00	SOIL	TPH DIESEL
				TPH GASOLINE
				VOLATILE ORGANICS BY GC/MS
				TPH JP-5

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:	08/01/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	08/01/00
Batch No.	: 00H011	Date Extracted:	08/02/00 13:00
Sample ID:	18609-3363	Date Analyzed:	08/02/00 19:28
Lab Samp ID:	H011-02	Dilution Factor:	1
Lab File ID:	DH01041A	Matrix :	SOIL
Ext Btch ID:	DSH006S	% Moisture :	3.4
Calib. Ref.:	DH01037A	Instrument ID :	GCT043

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
DIESEL	ND	10	3.6
JP5	ND	10	3.9

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
BROMOBENZENE	103	60-140
HEXACOSANE	127	55-150

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:	08/01/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	08/01/00
Batch No.	: 00H011	Date Extracted:	08/02/00 13:00
Sample ID:	18609-3364	Date Analyzed:	08/02/00 20:16
Lab Samp ID:	H011-03	Dilution Factor:	1
Lab File ID:	DH01042A	Matrix :	SOIL
Ext Btch ID:	DSH006S	% Moisture :	6.9
Calib. Ref.:	DH01037A	Instrument ID :	GCT043

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
DIESEL	ND	11	3.7
JP5	ND	11	4

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
BROMOBENZENE	104	60-140
HEXACOSANE	133	55-150

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:	08/01/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	08/01/00
Batch No.	: 00H011	Date Extracted:	08/02/00 13:00
Sample ID:	18609-3365	Date Analyzed:	08/03/00 13:52
Lab Samp ID:	H011-04	Dilution Factor:	5
Lab File ID:	DH01064A	Matrix :	SOIL
Ext Btch ID:	DSH006S	% Moisture :	27.7
Calib. Ref.:	DH01061A	Instrument ID :	GCT043

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
DIESEL	ND	69	24
JP5	3300**	69	26

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
BROMOBENZENE	137	60-140
HEXACOSANE	90	55-150

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

METHOD M8015
TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

Client	: IT CORPORATION	Date Collected:	08/01/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	08/01/00
Batch No.	: 00H011	Date Extracted:	08/02/00 13:00
Sample ID:	18609-3366	Date Analyzed:	08/03/00 14:41
Lab Samp ID:	H011-05	Dilution Factor:	5
Lab File ID:	DH01065A	Matrix :	SOIL
Ext Btch ID:	DSH006S	% Moisture :	29.3
Calib. Ref.:	DH01061A	Instrument ID :	GCT043

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
DIESEL	ND	71	25
JP5	3600**	71	26

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
BROMOBENZENE	137	60-140
HEXACOSANE	86	55-150

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

METHOD M8015
TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

Client	: IT CORPORATION	Date Collected:	08/01/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	08/01/00
Batch No.	: 00H011	Date Extracted:	08/02/00 13:00
Sample ID:	18609-3367	Date Analyzed:	08/03/00 19:30
Lab Samp ID:	H011-06	Dilution Factor:	10
Lab File ID:	DH01071A	Matrix :	SOIL
Ext Btch ID:	DSH006S	% Moisture :	21.9
Calib. Ref.:	DH01066A	Instrument ID :	GCT043

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
DIESEL	ND	130	44
JP5	5300**	130	48

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
BROMOBENZENE	DO	60-140
HEXACOSANE	DO	55-150

QC LIMIT : (SOIL) 60-140 55-150
QC LIMIT : (WATER) 65-135 60-145
SURR1 : Bromobenzene
SURR2 : Hexacosane
RL : Reporting Limit
** : Chromatogram shows a JP5 like pattern.
DO : Diluted out

METHOD M8015
TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

Client	: IT CORPORATION	Date Collected:	08/01/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	08/01/00
Batch No.	: 00H011	Date Extracted:	08/02/00 13:00
Sample ID:	18609-3368	Date Analyzed:	08/02/00 23:28
Lab Samp ID:	H011-07	Dilution Factor:	1
Lab File ID:	DH01046A	Matrix :	SOIL
Ext Btch ID:	DSH006S	% Moisture :	6.7
Calib. Ref.:	DH01037A	Instrument ID :	GCT043

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
DIESEL	88**	11	3.7
JP5	ND	11	4

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
BROMOBENZENE	97	60-140
HEXACOSANE	122	55-150

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

METHOD M8015
TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

Client	: IT CORPORATION	Date Collected:	08/01/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	08/01/00
Batch No.	: 00H011	Date Extracted:	08/02/00 13:00
Sample ID:	18609-3369	Date Analyzed:	08/03/00 03:28
Lab Samp ID:	H011-08	Dilution Factor:	1
Lab File ID:	DH01051A	Matrix :	SOIL
Ext Btch ID:	DSH006S	% Moisture :	8.4
Calib. Ref.:	DH01049A	Instrument ID :	GCT043

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
DIESEL	ND	11	3.8
JP5	ND	11	4.1

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
BROMOBENZENE	101	60-140
HEXACOSANE	126	55-150

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:	08/01/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	08/01/00
Batch No.	: 00H011	Date Extracted:	08/02/00 13:00
Sample ID:	18609-3370	Date Analyzed:	08/03/00 04:16
Lab Samp ID:	H011-09	Dilution Factor:	1
Lab File ID:	DH01052A	Matrix :	SOIL
Ext Btch ID:	DSH006S	% Moisture :	8.4
Calib. Ref.:	DH01049A	Instrument ID :	GCT043

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
DIESEL	ND	11	3.8
JP5	ND	11	4.1

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
BROMOBENZENE	93	60-140
HEXACOSANE	110	55-150

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:	08/01/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	08/01/00
Batch No.	: 00H011	Date Extracted:	08/02/00 13:00
Sample ID:	18609-3371	Date Analyzed:	08/03/00 05:04
Lab Samp ID:	H011-10	Dilution Factor:	1
Lab File ID:	DH01053A	Matrix :	SOIL
Ext Btch ID:	DSH006S	% Moisture :	7.2
Calib. Ref.:	DH01049A	Instrument ID :	GCT043

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
DIESEL	ND	11	3.7
JP5	29**	11	4

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
BROMOBENZENE	93	60-140
HEXACOSANE	135	55-150

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

METHOD M8015
TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

Client	: IT CORPORATION	Date Collected:	08/01/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	08/01/00
Batch No.	: 00H011	Date Extracted:	08/02/00 13:00
Sample ID:	18609-3372	Date Analyzed:	08/03/00 05:52
Lab Samp ID:	H011-11	Dilution Factor:	1
Lab File ID:	DH01054A	Matrix :	SOIL
Ext Btch ID:	DSH006S	% Moisture :	10.6
Calib. Ref.:	DH01049A	Instrument ID :	GCT043

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
DIESEL	ND	11	3.9
JP5	ND	11	4.2

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
BROMOBENZENE	98	60-140
HEXACOSANE	119	55-150

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:	08/01/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	08/01/00
Batch No.	: 00H011	Date Extracted:	08/02/00 13:00
Sample ID:	18609-3373	Date Analyzed:	08/03/00 06:39
Lab Samp ID:	H011-12	Dilution Factor:	1
Lab File ID:	DH01055A	Matrix :	SOIL
Ext Btch ID:	DSH006S	% Moisture :	7.0
Calib. Ref.:	DH01049A	Instrument ID :	GCT043

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
DIESEL	ND	11	3.7
JP5	ND	11	4

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
BROMOBENZENE	94	60-140
HEXACOSANE	134	55-150

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:	08/01/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	08/01/00
Batch No.	: 00H011	Date Extracted:	08/02/00 13:00
Sample ID:	18609-3374	Date Analyzed:	08/03/00 07:27
Lab Samp ID:	H011-13	Dilution Factor:	1
Lab File ID:	DH01056A	Matrix :	SOIL
Ext Btch ID:	DSH006S	% Moisture :	7.1
Calib. Ref.:	DH01049A	Instrument ID :	GCT043

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
DIESEL	ND	11	3.7
JP5	ND	11	4

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
BROMOBENZENE	93	60-140
HEXACOSANE	132	55-150

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:	08/01/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	08/01/00
Batch No.	: 00H011	Date Extracted:	08/02/00 13:00
Sample ID:	18609-3375	Date Analyzed:	08/03/00 08:15
Lab Samp ID:	H011-14	Dilution Factor:	1
Lab File ID:	DH01057A	Matrix :	SOIL
Ext Btch ID:	DSH006S	% Moisture :	3.9
Calib. Ref.:	DH01049A	Instrument ID :	GCT043

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
DIESEL	ND	10	3.6
JP5	ND	10	3.9

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
BROMOBENZENE	95	60-140
HEXACOSANE	133	55-150

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:	08/01/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	08/01/00
Batch No.	: 00H011	Date Extracted:	08/02/00 13:00
Sample ID:	18609-3377	Date Analyzed:	08/03/00 09:03 ✓
Lab Samp ID:	H011-16	Dilution Factor:	1
Lab File ID:	DH01058A	Matrix :	SOIL
Ext Btch ID:	DSH006S	% Moisture :	7.0
Calib. Ref.:	DH01049A	Instrument ID :	GCT043

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
DIESEL	ND	11	3.7
JP5	ND	11	4

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
BROMOBENZENE	101	60-140
HEXACOSANE	118	55-150 ✓

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:	08/01/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	08/01/00
Batch No.	: 00H011	Date Extracted:	08/02/00 13:00
Sample ID:	18609-3378	Date Analyzed:	08/03/00 09:51
Lab Samp ID:	H011-17	Dilution Factor:	1
Lab File ID:	DH01059A	Matrix :	SOIL
Ext Btch ID:	DSH006S	% Moisture :	17.1
Calib. Ref.:	DH01049A	Instrument ID :	GCT043

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
DIESEL	ND	12	4.2
JP5	ND	12	4.5

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
BROMOBENZENE	97	60-140
HEXACOSANE	132	55-150

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:	08/01/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	08/01/00
Batch No.	: 00H011	Date Extracted:	08/02/00 13:00
Sample ID:	18609-3379	Date Analyzed:	08/03/00 10:39
Lab Samp ID:	H011-18	Dilution Factor:	1
Lab File ID:	DH01060A	Matrix :	SOIL
Ext Btch ID:	DSH006S	% Moisture :	6.3
Calib. Ref.:	DH01049A	Instrument ID :	GCT043

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
DIESEL	ND	11	3.7
JP5	ND	11	4

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
BROMOBENZENE	103	60-140
HEXACOSANE	130	55-150

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:	08/01/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	08/01/00
Batch No.	: 00H011	Date Extracted:	08/02/00 13:00
Sample ID:	18609-3380	Date Analyzed:	08/03/00 13:04
Lab Samp ID:	H011-19	Dilution Factor:	1
Lab File ID:	DH01063A	Matrix :	SOIL
Ext Btch ID:	DSH006S	% Moisture :	13.6
Calib. Ref.:	DH01061A	Instrument ID :	GCT043

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
DIESEL	ND	12	4
JP5	ND	12	4.3

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
BROMOBENZENE	99	60-140
HEXACOSANE	133	55-150

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:	08/02/00
Batch No.	: 00H011	Date Extracted:	08/02/00 13:00
Sample ID:	MBLK1S	Date Analyzed:	08/02/00 17:51
Lab Samp ID:	DSH006SB	Dilution Factor:	1
Lab File ID:	DH01039A	Matrix :	SOIL
Ext Btch ID:	DSH006S	% Moisture :	NA
Calib. Ref.:	DH01037A	Instrument ID :	GCT043

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
DIESEL	ND	10	3.5
JP5	ND	10	3.7

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
BROMOBENZENE	108	60-140
HEXACOSANE	136	55-150

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 ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
BATCH NO.: 00H011
METHOD: METHOD M8015

==========

MATRIX:	SOIL		% MOISTURE:	NA
DILUTION FACTOR:	1	1		
SAMPLE ID:	MBLK1S			
LAB SAMP ID:	DSH006SB	DSH006SL		
LAB FILE ID:	DH01039A	DH01040A		
DATE EXTRACTED:	08/02/0013:00	08/02/0013:00	DATE COLLECTED:	NA
DATE ANALYZED:	08/02/0017:51	08/02/0018:40	DATE RECEIVED:	08/02/00
PREP. BATCH:	DSH006S	DSH006S		
CALIB. REF:	DH01037A	DH01037A		

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	QC LIMIT (%)
Diesel	ND	500	514	103	51-153

==========

SURROGATE PARAMETER	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	QC LIMIT (%)
[illegible]mobenzene	100	108	108	60-140
[illegible]icosane	25	34.6	138	55-150

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
BATCH NO.: 00H011
METHOD: METHOD M8015

MATRIX:	SOIL			% MOISTURE:	6.7
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	18609-3368				
LAB SAMP ID:	H011-07	H011-07M	H011-07S		
LAB FILE ID:	DH01046A	DH01047A	DH01048A		
DATE EXTRACTED:	08/02/0013:00	08/02/0013:00	08/02/0013:00	DATE COLLECTED:	08/01/00
DATE ANALYZED:	08/02/0023:28	08/03/0000:16	08/03/0001:04	DATE RECEIVED:	08/01/00
PREP. BATCH:	DSH006S	DSH006S	DSH006S		
CALIB. REF:	DH01037A	DH01037A	DH01037A		

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	MS RSLT (mg/kg)	MS % REC	SPIKE AMT (mg/kg)	MSD RSLT (mg/kg)	MSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
Diesel	88	536	573	90	535	577	91	1	51-153	50

SURROGATE PARAMETER	SPIKE AMT (mg/kg)	MS RSLT (mg/kg)	MS % REC	SPIKE AMT (mg/kg)	MSD RSLT (mg/kg)	MSD % REC	QC LIMIT (%)
Bromobenzene	107	115	107	106.9	118.2	111	60-140
Hexacosane	26.8	36.7	137	26.7	36.9	138	55-150

METHOD 5[illegible]M8015
TOTAL PETROLEUM HYDROCARBONS BY PURGE & TRAP

Client : IT CORPORATION
Project : MCAS EL TORO/18609/D.O. 70
Batch No. : 00H011

Matrix : SOIL
Instrument ID : GCT039

SAMPLE ID	EMAX SAMPLE ID	RESULTS (mg/kg)	SURR (%)	DLF	MOIST	PRL (mg/kg)	MDL (mg/kg)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1S	VAH0439B	ND	80	1	NA	1	.02	08/02/0021:28	08/02/0021:28	EH01060A	EH01057A	VAH0439	NA	08/02/00
LCS1S	VAH0439L	2.96	101	1	NA	1	.02	08/02/0022:04	08/02/0022:04	EH01061A	EH01057A	VAH0439	NA	08/02/00
LCD1S	VAH0439C	3.07	96	1	NA	1	.02	08/02/0022:38	08/02/0022:38	EH01062A	EH01057A	VAH0439	NA	08/02/00
MBLK2S	VMH0639B	ND	93	10	NA	10	.2	08/03/0022:14	08/03/0022:14	EH01102A	EH01094A	VMH0639	NA	08/03/00
LCS2S	VMH0639L	26.7	99	10	NA	10	.2	08/03/0022:49	08/03/0022:49	EH01103A	EH01094A	VMH0639	NA	08/03/00
LCD2S	VMH0639C	28.4	111	10	NA	10	.2	08/03/0023:23	08/03/0023:23	EH01104A	EH01094A	VMH0639	NA	08/03/00
MBLK3S	VAH0739B	ND	96	1	NA	1	.02	08/04/0004:34	08/04/0004:34	EH01113A	EH01111A	VAH0739	NA	08/04/00
LCS3S	VAH0739L	2.72	116	1	NA	1	.02	08/04/0005:08	08/04/0005:08	EH01114A	EH01111A	VAH0739	NA	08/04/00
LCD3S	VAH0739C	2.84	113	1	NA	1	.02	08/04/0005:43	08/04/0005:43	EH01115A	EH01111A	VAH0739	NA	08/04/00
18609-3363	H011-02	ND	70	1	3.4	1.04	.0207	08/03/0005:34	08/03/0005:34	EH01074A	EH01071A	VAH0439	08/01/00	08/01/00
18609-3364	H011-03	ND	74	1	6.9	1.07	.0215	08/03/0006:08	08/03/0006:08	EH01075A	EH01071A	VAH0439	08/01/00	08/01/00
18609-3365**	H011-04	3200	107	500	27.7	692	13.8	08/04/0000:33	08/04/0000:33	EH01106A	EH01105A	VMH0639	08/01/00	08/01/00
18609-3366**	H011-05	3400	105	500	29.3	707	14.1	08/04/0001:07	08/04/0001:07	EH01107A	EH01105A	VMH0639	08/01/00	08/01/00
18609-3367**	H011-06	6900	122	500	21.9	640	12.8	08/04/0001:41	08/04/0001:41	EH01108A	EH01105A	VMH0639	08/01/00	08/01/00
18609-3368**	H011-07	8.3	85	1	6.7	1.07	.0214	08/03/0006:43	08/03/0006:43	EH01076A	EH01071A	VAG0439	08/01/00	08/01/00
18609-3369**	H011-08	1.3	77	1	8.4	1.09	.0218	08/03/0007:17	08/03/0007:17	EH01077A	EH01071A	VAH0439	08/01/00	08/01/00
18609-3370	H011-09	ND	80	1	8.4	1.09	.0218	08/03/0007:51	08/03/0007:51	EH01078A	EH01071A	VAH0439	08/01/00	08/01/00
18609-3371**	H011-10	1.1	77	1	7.2	1.08	.0216	08/03/0008:26	08/03/0008:26	EH01079A	EH01071A	VAH0439	08/01/00	08/01/00
18609-3372	H011-11	ND	74	1	10.6	1.12	.0224	08/03/0009:01	08/03/0009:01	EH01080A	EH01071A	VAH0439	08/01/00	08/01/00
18609-3373	H011-12	ND	78	1	7.0	1.08	.0215	08/03/0009:35	08/03/0009:35	EH01081A	EH01071A	VAH0439	08/01/00	08/01/00
18609-3374	H011-13	ND	92	1	7.1	1.08	.0215	08/04/0006:17	08/04/0006:17	EH01116A	EH01111A	VAH0739	08/01/00	08/01/00
18609-3374MS	H011-13M	2.98	107	1	7.1	1.08	.0215	08/04/0006:52	08/04/0006:52	EH01117A	EH01111A	VAH0739	08/01/00	08/01/00
18609-3374MSD	H011-13S	2.77	106	1	7.1	1.08	.0215	08/04/0007:26	08/04/0007:26	EH01118A	EH01111A	VAH0739	08/01/00	08/01/00
18609-3375	H011-14	ND	89	1	3.9	1.04	.0208	08/04/0008:01	08/04/0008:01	EH01119A	EH01111A	VAH0739	08/01/00	08/01/00
18609-3377	H011-16	ND	92	1	7.0	1.08	.0215	08/04/0008:35	08/04/0008:35	EH01120A	EH01111A	VAH0739	08/01/00	08/01/00
18609-3378	H011-17	ND	83	1	17.1	1.21	.0241	08/04/0009:10	08/04/0009:10	EH01121A	EH01111A	VAH0739	08/01/00	08/01/00
18609-3379	H011-18	ND	85	1	6.3	1.07	.0213	08/04/0010:20	08/04/0010:20	EH01123A	EH01122A	VAH0739	08/01/00	08/01/00
18609-3380	H011-19	ND	96	1	13.6	1.16	.0231	08/04/0010:56	08/04/0010:56	EH01124A	EH01122A	VAH0739	08/01/00	08/01/00

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
** : Presence of HC heavier than Gasoline

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
BATCH NO.: 00H011
METHOD: METHOD 5030B/M8015

MATRIX:	SOIL			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK1S				
LAB SAMP ID:	VAH0439B	VAH0439L	VAH0439C		
LAB FILE ID:	EH01060A	EH01061A	EH01062A		
DATE EXTRACTED:	08/02/0021:28	08/02/0022:04	08/02/0022:38	DATE COLLECTED:	NA
DATE ANALYZED:	08/02/0021:28	08/02/0022:04	08/02/0022:38	DATE RECEIVED:	08/02/00
PREP. BATCH:	VAH0439	VAH0439	VAH0439		
CALIB. REF:	EH01057A	EH01057A	EH01057A		

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
Gasoline	ND	2.75	2.96	108	2.75	3.07	112	4	57-146	50

SURROGATE PARAMETER	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	QC LIMIT (%)
Bromofluorobenzene	.1	.101	101	.1	.0956	96	60-140

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
BATCH NO.: 00H011
METHOD: METHOD 5030B/M8015

MATRIX: SOIL % MOISTURE: NA

DILUTION FACTOR:	10	10	10		
SAMPLE ID:	MBLK2S				
LAB SAMP ID:	VMH0639B	VMH0639L	VMH0639C		
LAB FILE ID:	EH01102A	EH01103A	EH01104A		
DATE EXTRACTED:	08/03/0022:14	08/03/0022:49	08/03/0023:23	DATE COLLECTED:	NA
DATE ANALYZED:	08/03/0022:14	08/03/0022:49	08/03/0023:23	DATE RECEIVED:	08/03/00
PREP. BATCH:	VMH0639	VMH0639	VMH0639		
CALIB. REF:	EH01094A	EH01094A	EH01094A		

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
Gasoline	ND	27.5	26.7	97	27.5	28.4	103	6	57-146	50

SURROGATE PARAMETER	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	QC LIMIT (%)
Bromofluorobenzene	1	.988	99	1	1.11	111	60-140

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
BATCH NO.: 00H011
METHOD: METHOD 5030B/M8015

MATRIX:	SOIL			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK3S				
LAB SAMP ID:	VAH0739B	VAH0739L	VAH0739C		
LAB FILE ID:	EH01113A	EH01114A	EH01115A		
DATE EXTRACTED:	08/04/0004:34	08/04/0005:08	08/04/0005:43	DATE COLLECTED:	NA
DATE ANALYZED:	08/04/0004:34	08/04/0005:08	08/04/0005:43	DATE RECEIVED:	08/04/00
PREP. BATCH:	VAH0739	VAH0739	VAH0739		
CALIB. REF:	EH01111A	EH01111A	EH01111A		

ACCESSION: ✓

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
Gasoline	ND	2.75	2.72	99	2.75	2.84	103	4	57-146	50

SURROGATE PARAMETER	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	QC LIMIT (%)
Bromofluorobenzene	.1	.116	116	.1	.113	113	60-140

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: IT CORPORATION
PROJECT: MCAS EL TORO/18609/D.O. 70
BATCH NO.: 00H011
METHOD: METHOD 5030B/M8015

MATRIX:	SOIL			% MOISTURE:	7.1
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	18609-3374				
LAB SAMP ID:	H011-13	H011-13M	H011-13S		
LAB FILE ID:	EH01116A	EH01117A	EH01118A		
DATE EXTRACTED:	08/04/0006:17	08/04/0006:52	08/04/0007:26	DATE COLLECTED:	08/01/00
DATE ANALYZED:	08/04/0006:17	08/04/0006:52	08/04/0007:26	DATE RECEIVED:	08/01/00
PREP. BATCH:	VAH0739	VAH0739	VAH0739		
CALIB. REF:	EH01111A	EH01111A	EH01111A		

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	MS RSLT (mg/kg)	MS % REC	SPIKE AMT (mg/kg)	MSD RSLT (mg/kg)	MSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
Gasoline	ND	2.96	2.98	101	2.96	2.77	94	7	57-146	50

SURROGATE PARAMETER	SPIKE AMT (mg/kg)	MS RSLT (mg/kg)	MS % REC	SPIKE AMT (mg/kg)	MSD RSLT (mg/kg)	MSD % REC	QC LIMIT (%)
Bromofluorobenzene	.108	.115	107	.108	.114	106	60-140

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

Client	: IT CORPORATION	Date Collected:	08/01/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	08/01/00
Batch No.	: 00H011	Date Extracted:	08/03/00 18:02
Sample ID:	18609-3362	Date Analyzed:	08/03/00 18:02
Lab Samp ID:	H011-01	Dilution Factor:	1
Lab File ID:	RHK040	Matrix :	WATER
Ext Btch ID:	VOH0352	% Moisture :	NA
Calib. Ref.:	RHK034	Instrument ID :	T-052

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	15J	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	109	62-139
BROMOFLUOROBENZENE	81	75-125
TOLUENE-D8	116	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:	08/01/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	08/01/00
Batch No.	: 00H011	Date Extracted:	08/04/00 08:46
Sample ID:	18609-3363	Date Analyzed:	08/04/00 08:46
Lab Samp ID:	H011-02	Dilution Factor:	1
Lab File ID:	RHK063	Matrix :	SOIL
Ext Btch ID:	VOH0352	% Moisture :	3.4
Calib. Ref.:	RHK049	Instrument ID :	T-052

PARAMETERS	RESULTS (ug/kg)	PRL (ug/kg)	MDL (ug/kg)
1,1,1-TRICHLOROETHANE	ND	5.2	.35
1,1,2,2-TETRACHLOROETHANE	ND	5.2	.76
1,1,2-TRICHLOROETHANE	ND	5.2	.68
1,1-DICHLOROETHANE	ND	5.2	.54
1,1-DICHLOROETHENE	ND	5.2	.5
1,2-DICHLOROETHANE	ND	5.2	1
1,2-DICHLOROPROPANE	ND	5.2	.57
2-BUTANONE	ND	52	1.6
2-CHLOROETHYLVINYLETHER	ND	52	.77
2-HEXANONE	ND	52	1.5
4-METHYL-2-PENTANONE	ND	52	2.9
ACETONE	ND	52	3
BENZENE	ND	5.2	.54
BROMODICHLOROMETHANE	ND	5.2	.44
BROMOFORM	ND	5.2	.61
BROMOMETHANE	ND	5.2	3.7
CARBON DISULFIDE	ND	10	.35
CARBON TETRACHLORIDE	ND	5.2	.56
CHLOROBENZENE	ND	5.2	.48
CHLOROETHANE	ND	5.2	.95
CHLOROFORM	ND	5.2	.54
CHLOROMETHANE	ND	5.2	.55
CIS-1,2-DICHLOROETHENE	ND	5.2	.48
CIS-1,3-DICHLOROPROPENE	ND	5.2	.42
DIBROMOCHLOROMETHANE	ND	5.2	.38
ETHYLBENZENE	ND	5.2	.48
MTBE	ND	10	.78
METHYLENE CHLORIDE	ND	10	3.1
STYRENE	ND	5.2	.35
TETRACHLOROETHENE	ND	5.2	.35
TOLUENE	ND	5.2	.6
TRANS-1,2-DICHLOROETHENE	ND	5.2	.49
TRANS-1,3-DICHLOROPROPENE	ND	5.2	.47
TRICHLOROETHENE	ND	5.2	.63
VINYL ACETATE	ND	52	.86
VINYL CHLORIDE	ND	5.2	.61
XYLENES	ND	5.2	1.2

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	124	52-149
BROMOFLUOROBENZENE	123	65-135
TOLUENE-D8	120	65-135

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:	08/01/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	08/01/00
Batch No.	: 00H011	Date Extracted:	08/04/00 09:25
Sample ID:	18609-3364	Date Analyzed:	08/04/00 09:25
Lab Samp ID:	H011-03	Dilution Factor:	1
Lab File ID:	RHK064	Matrix :	SOIL
Ext Btch ID:	VOH0352	% Moisture :	6.9
Calib. Ref.:	RHK049	Instrument ID :	T-052

PARAMETERS	RESULTS (ug/kg)	PRL (ug/kg)	MDL (ug/kg)
1,1,1-TRICHLOROETHANE	ND	5.4	.37
1,1,2,2-TETRACHLOROETHANE	ND	5.4	.79
1,1,2-TRICHLOROETHANE	ND	5.4	.7
1,1-DICHLOROETHANE	ND	5.4	.56
1,1-DICHLOROETHENE	ND	5.4	.52
1,2-DICHLOROETHANE	ND	5.4	1.1
1,2-DICHLOROPROPANE	ND	5.4	.59
2-BUTANONE	ND	54	1.6
2-CHLOROETHYLVINYLETHER	ND	54	.79
2-HEXANONE	ND	54	1.6
4-METHYL-2-PENTANONE	ND	54	3
ACETONE	ND	54	3.1
BENZENE	ND	5.4	.56
BROMODICHLOROMETHANE	ND	5.4	.45
BROMOFORM	ND	5.4	.64
BROMOMETHANE	ND	5.4	3.9
CARBON DISULFIDE	ND	11	.36
CARBON TETRACHLORIDE	ND	5.4	.58
CHLOROBENZENE	ND	5.4	.5
CHLOROETHANE	ND	5.4	.99
CHLOROFORM	ND	5.4	.56
CHLOROMETHANE	ND	5.4	.57
CIS-1,2-DICHLOROETHENE	ND	5.4	.49
CIS-1,3-DICHLOROPROPENE	ND	5.4	.43
DIBROMOCHLOROMETHANE	ND	5.4	.39
ETHYLBENZENE	ND	5.4	.49
MTBE	ND	11	.81
METHYLENE CHLORIDE	ND	11	3.2
STYRENE	ND	5.4	.37
TETRACHLOROETHENE	ND	5.4	.36
TOLUENE	ND	5.4	.62
TRANS-1,2-DICHLOROETHENE	ND	5.4	.51
TRANS-1,3-DICHLOROPROPENE	ND	5.4	.48
TRICHLOROETHENE	ND	5.4	.66
VINYL ACETATE	ND	54	.89
VINYL CHLORIDE	ND	5.4	.63
XYLENES	ND	5.4	1.2

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	119	52-149
BROMOFLUOROBENZENE	104	65-135
TOLUENE-D8	116	65-135

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:	08/01/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	08/01/00
Batch No.	: 00H011	Date Extracted:	08/03/00 18:39
Sample ID:	18609-3365	Date Analyzed:	08/03/00 18:39
Lab Samp ID:	H011-04	Dilution Factor:	50
Lab File ID:	RHK041	Matrix :	SOIL
Ext Btch ID:	VOH0352	% Moisture :	27.7
Calib. Ref.:	RHK034	Instrument ID :	T-052

PARAMETERS	RESULTS (ug/kg)	PRL (ug/kg)	MDL (ug/kg)
1,1,1-TRICHLOROETHANE	ND	350	24
1,1,2,2-TETRACHLOROETHANE	ND	350	51
1,1,2-TRICHLOROETHANE	ND	350	45
1,1-DICHLOROETHANE	ND	350	36
1,1-DICHLOROETHENE	ND	350	33
1,2-DICHLOROETHANE	ND	350	68
1,2-DICHLOROPROPANE	ND	350	38
2-BUTANONE	ND	3500	110
2-CHLOROETHYLVINYLETHER	ND	3500	51
2-HEXANONE	ND	3500	100
4-METHYL-2-PENTANONE	ND	3500	190
ACETONE	ND	3500	200
BENZENE	ND	350	36
BROMODICHLOROMETHANE	ND	350	29
BROMOFORM	ND	350	41
BROMOMETHANE	ND	350	250
CARBON DISULFIDE	ND	690	23
CARBON TETRACHLORIDE	ND	350	37
CHLOROBENZENE	ND	350	32
CHLOROETHANE	ND	350	64
CHLOROFORM	75J	350	36
CHLOROMETHANE	ND	350	36
CIS-1,2-DICHLOROETHENE	ND	350	32
CIS-1,3-DICHLOROPROPENE	ND	350	28
DIBROMOCHLOROMETHANE	ND	350	25
ETHYLBENZENE	200J	350	32
MTBE	ND	690	52
METHYLENE CHLORIDE	ND	690	210
STYRENE	ND	350	24
TETRACHLOROETHENE	ND	350	23
TOLUENE	ND	350	40
TRANS-1,2-DICHLOROETHENE	ND	350	33
TRANS-1,3-DICHLOROPROPENE	ND	350	31
TRICHLOROETHENE	ND	350	42
VINYL ACETATE	ND	3500	57
VINYL CHLORIDE	ND	350	40
XYLENES	ND	350	78

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	111	52-149
BROMOFLUOROBENZENE	77	65-135
TOLUENE-D8	110	65-135

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:	08/01/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	08/01/00
Batch No.	: 00H011	Date Extracted:	08/03/00 19:17
Sample ID:	18609-3366	Date Analyzed:	08/03/00 19:17
Lab Samp ID:	H011-05	Dilution Factor:	50
Lab File ID:	RHK042	Matrix :	SOIL
Ext Btch ID:	VOH0352	% Moisture :	29.3
Calib. Ref.:	RHK034	Instrument ID :	T-052

PARAMETERS	RESULTS (ug/kg)	PRL (ug/kg)	MDL (ug/kg)
1,1,1-TRICHLOROETHANE	ND	350	24
1,1,2,2-TETRACHLOROETHANE	ND	350	52
1,1,2-TRICHLOROETHANE	ND	350	46
1,1-DICHLOROETHANE	ND	350	37
1,1-DICHLOROETHENE	ND	350	34
1,2-DICHLOROETHANE	ND	350	70
1,2-DICHLOROPROPANE	ND	350	39
2-BUTANONE	ND	3500	110
2-CHLOROETHYLVINYLETHER	ND	3500	52
2-HEXANONE	ND	3500	100
4-METHYL-2-PENTANONE	ND	3500	200
ACETONE	ND	3500	200
BENZENE	ND	350	37
BROMODICHLOROMETHANE	ND	350	30
BROMOFORM	ND	350	42
BROMOMETHANE	ND	350	250
CARBON DISULFIDE	ND	710	24
CARBON TETRACHLORIDE	ND	350	38
CHLOROBENZENE	ND	350	33
CHLOROETHANE	ND	350	65
CHLOROFORM	ND	350	37
CHLOROMETHANE	ND	350	37
CIS-1,2-DICHLOROETHENE	ND	350	32
CIS-1,3-DICHLOROPROPENE	ND	350	28
DIBROMOCHLOROMETHANE	ND	350	26
ETHYLBENZENE	680	350	32
MTBE	ND	710	53
METHYLENE CHLORIDE	ND	710	210
STYRENE	ND	350	24
TETRACHLOROETHENE	ND	350	24
TOLUENE	ND	350	41
TRANS-1,2-DICHLOROETHENE	ND	350	34
TRANS-1,3-DICHLOROPROPENE	ND	350	32
TRICHLOROETHENE	ND	350	43
VINYL ACETATE	ND	3500	59
VINYL CHLORIDE	ND	350	41
XYLENES	ND	350	80

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	100	52-149
BROMOFLUOROBENZENE	64*	65-135
TOLUENE-D8	98	65-135

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:	08/01/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	08/01/00
Batch No.	: 00H011	Date Extracted:	08/03/00 19:55
Sample ID:	18609-3367	Date Analyzed:	08/03/00 19:55
Lab Samp ID:	H011-06	Dilution Factor:	50
Lab File ID:	RHK043	Matrix :	SOIL
Ext Btch ID:	VOH0352	% Moisture :	21.9
Calib. Ref.:	RHK034	Instrument ID :	T-052

PARAMETERS	RESULTS (ug/kg)	PRL (ug/kg)	MDL (ug/kg)
1,1,1-TRICHLOROETHANE	ND	320	22
1,1,2,2-TETRACHLOROETHANE	ND	320	47
1,1,2-TRICHLOROETHANE	ND	320	42
1,1-DICHLOROETHANE	ND	320	34
1,1-DICHLOROETHENE	ND	320	31
1,2-DICHLOROETHANE	ND	320	63
1,2-DICHLOROPROPANE	ND	320	35
2-BUTANONE	ND	3200	97
2-CHLOROETHYLVINYLETHER	ND	3200	47
2-HEXANONE	ND	3200	94
4-METHYL-2-PENTANONE	ND	3200	180
ACETONE	ND	3200	180
BENZENE	ND	320	34
BROMODICHLOROMETHANE	ND	320	27
BROMOFORM	ND	320	38
BROMOMETHANE	ND	320	230
CARBON DISULFIDE	ND	640	21
CARBON TETRACHLORIDE	ND	320	34
CHLOROBENZENE	ND	320	30
CHLOROETHANE	ND	320	59
CHLOROFORM	68J	320	34
CHLOROMETHANE	ND	320	34
CIS-1,2-DICHLOROETHENE	ND	320	29
CIS-1,3-DICHLOROPROPENE	ND	320	26
DIBROMOCHLOROMETHANE	ND	320	23
ETHYLBENZENE	610	320	29
MTBE	ND	640	48
METHYLENE CHLORIDE	ND	640	190
STYRENE	ND	320	22
TETRACHLOROETHENE	ND	320	22
TOLUENE	ND	320	37
TRANS-1,2-DICHLOROETHENE	ND	320	30
TRANS-1,3-DICHLOROPROPENE	ND	320	29
TRICHLOROETHENE	ND	320	39
VINYL ACETATE	ND	3200	53
VINYL CHLORIDE	ND	320	37
XYLENES	ND	320	73

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	93	52-149
BROMOFLUOROBENZENE	60*	65-135
TOLUENE-D8	94	65-135

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:	08/01/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	08/01/00
Batch No.	: 00H011	Date Extracted:	08/04/00 16:06
Sample ID:	18609-3368	Date Analyzed:	08/04/00 16:06
Lab Samp ID:	H011-07	Dilution Factor:	1
Lab File ID:	RHW023	Matrix :	SOIL
Ext Btch ID:	VOH0103	% Moisture :	6.7
Calib. Ref.:	RHW016	Instrument ID :	T-006

PARAMETERS	RESULTS (ug/kg)	PRL (ug/kg)	MDL (ug/kg)
1,1,1-TRICHLOROETHANE	ND	5.4	.36
1,1,2,2-TETRACHLOROETHANE	ND	5.4	.79
1,1,2-TRICHLOROETHANE	ND	5.4	.7
1,1-DICHLOROETHANE	ND	5.4	.56
1,1-DICHLOROETHENE	ND	5.4	.51
1,2-DICHLOROETHANE	ND	5.4	1.1
1,2-DICHLOROPROPANE	ND	5.4	.59
2-BUTANONE	ND	54	1.6
2-CHLOROETHYLVINYLETHER	ND	54	.79
2-HEXANONE	ND	54	1.6
4-METHYL-2-PENTANONE	ND	54	3
ACETONE	ND	54	3.1
BENZENE	ND	5.4	.56
BROMODICHLOROMETHANE	ND	5.4	.45
BROMOFORM	ND	5.4	.63
BROMOMETHANE	ND	5.4	3.8
CARBON DISULFIDE	ND	11	.36
CARBON TETRACHLORIDE	ND	5.4	.58
CHLOROBENZENE	ND	5.4	.5
CHLOROETHANE	ND	5.4	.99
CHLOROFORM	ND	5.4	.56
CHLOROMETHANE	ND	5.4	.56
CIS-1,2-DICHLOROETHENE	ND	5.4	.49
CIS-1,3-DICHLOROPROPENE	ND	5.4	.43
DIBROMOCHLOROMETHANE	ND	5.4	.39
ETHYLBENZENE	ND	5.4	.49
MTBE	ND	11	.81
METHYLENE CHLORIDE	ND	11	3.2
STYRENE	ND	5.4	.37
TETRACHLOROETHENE	ND	5.4	.36
TOLUENE	ND	5.4	.62
TRANS-1,2-DICHLOROETHENE	ND	5.4	.51
TRANS-1,3-DICHLOROPROPENE	ND	5.4	.48
TRICHLOROETHENE	ND	5.4	.66
VINYL ACETATE	ND	54	.89
VINYL CHLORIDE	ND	5.4	.63
XYLENES	ND	5.4	1.2

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	105	52-149
BROMOFLUOROBENZENE	78	65-135
TOLUENE-D8	95	65-135

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

[illegible]t	: IT CORPORATION	Date Collected:	08/01/00
[illegible]ct	: MCAS EL TORO/18609/D.O. 70	Date Received:	08/01/00
Batch No.	: 00H011	Date Extracted:	08/04/00 16:45
Sample ID:	18609-3369	Date Analyzed:	08/04/00 16:45
Lab Samp ID:	H011-08	Dilution Factor:	1
Lab File ID:	RHW024	Matrix :	SOIL
Ext Btch ID:	VOH0103	% Moisture :	8.4
Calib. Ref.:	RHW016	Instrument ID :	T-006

PARAMETERS	RESULTS (ug/kg)	PRL (ug/kg)	MDL (ug/kg)
,1,1-TRICHLOROETHANE	ND	5.5	.37
,1,2,2-TETRACHLOROETHANE	ND	5.5	.81
,1,2-TRICHLOROETHANE	ND	5.5	.72
,1-DICHLOROETHANE	ND	5.5	.57
,1-DICHLOROETHENE	ND	5.5	.52
,2-DICHLOROETHANE	ND	5.5	1.1
,2-DICHLOROPROPANE	ND	5.5	.6
-BUTANONE	ND	55	1.7
-CHLOROETHYLVINYLETHER	ND	55	.81
-HEXANONE	ND	55	1.6
-METHYL-2-PENTANONE	ND	55	3.1
CETONE	ND	55	3.1
ENZENE	ND	5.5	.57
ROMODICHLOROMETHANE	ND	5.5	.46
ROMOFORM	ND	5.5	.65
ROMOMETHANE	ND	5.5	3.9
ARBON DISULFIDE	ND	11	.36
ARBON TETRACHLORIDE	ND	5.5	.59
HLOROBENZENE	ND	5.5	.51
HLOROETHANE	ND	5.5	1
[illegible]ROFORM	ND	5.5	.57
[illegible]OMETHANE	ND	5.5	.58
[illegible]1,2-DICHLOROETHENE	ND	5.5	.5
IS-1,3-DICHLOROPROPENE	ND	5.5	.44
IBROMOCHLOROMETHANE	ND	5.5	.4
THYLBENZENE	ND	5.5	.5
TBE	ND	11	.83
ETHYLENE CHLORIDE	ND	11	3.3
TYRENE	ND	5.5	.37
ETRACHLOROETHENE	ND	5.5	.37
OLUENE	ND	5.5	.63
RANS-1,2-DICHLOROETHENE	ND	5.5	.52
RANS-1,3-DICHLOROPROPENE	ND	5.5	.49
RICHLOROETHENE	ND	5.5	.67
INYL ACETATE	ND	55	.91
INYL CHLORIDE	ND	5.5	.64
YLENES	ND	5.5	1.2

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	102	52-149
BROMOFLUOROBENZENE	91	65-135
TOLUENE-D8	97	65-135

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:	08/01/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	08/01/00
Batch No.	: 00H011	Date Extracted:	08/04/00 17:24
Sample ID:	18609-3370	Date Analyzed:	08/04/00 17:24
Lab Samp ID:	H011-09	Dilution Factor:	1
Lab File ID:	RHW025	Matrix :	SOIL
Ext Btch ID:	VOH0103	% Moisture :	8.4
Calib. Ref.:	RHW016	Instrument ID :	T-006

PARAMETERS	RESULTS (ug/kg)	PRL (ug/kg)	MDL (ug/kg)
1,1,1-TRICHLOROETHANE	ND	5.5	.37
1,1,2,2-TETRACHLOROETHANE	ND	5.5	.81
1,1,2-TRICHLOROETHANE	ND	5.5	.72
1,1-DICHLOROETHANE	ND	5.5	.57
1,1-DICHLOROETHENE	ND	5.5	.52
1,2-DICHLOROETHANE	ND	5.5	1.1
1,2-DICHLOROPROPANE	ND	5.5	.6
2-BUTANONE	ND	55	1.7
2-CHLOROETHYLVINYLETHER	ND	55	.81
2-HEXANONE	ND	55	1.6
4-METHYL-2-PENTANONE	ND	55	3.1
ACETONE	ND	55	3.1
BENZENE	ND	5.5	.57
BROMODICHLOROMETHANE	ND	5.5	.46
BROMOFORM	ND	5.5	.65
BROMOMETHANE	ND	5.5	3.9
CARBON DISULFIDE	ND	11	.36
CARBON TETRACHLORIDE	ND	5.5	.59
CHLOROBENZENE	ND	5.5	.51
CHLOROETHANE	ND	5.5	1
CHLOROFORM	ND	5.5	.57
CHLOROMETHANE	ND	5.5	.58
CIS-1,2-DICHLOROETHENE	ND	5.5	.5
CIS-1,3-DICHLOROPROPENE	ND	5.5	.44
DIBROMOCHLOROMETHANE	ND	5.5	.4
ETHYLBENZENE	ND	5.5	.5
MTBE	ND	11	.83
METHYLENE CHLORIDE	ND	11	3.3
STYRENE	ND	5.5	.37
TETRACHLOROETHENE	ND	5.5	.37
TOLUENE	ND	5.5	.63
TRANS-1,2-DICHLOROETHENE	ND	5.5	.52
TRANS-1,3-DICHLOROPROPENE	ND	5.5	.49
TRICHLOROETHENE	ND	5.5	.67
VINYL ACETATE	ND	55	.91
VINYL CHLORIDE	ND	5.5	.64
XYLENES	ND	5.5	1.2

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	100	52-149
BROMOFLUOROBENZENE	89	65-135
TOLUENE-D8	87	65-135

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:	08/01/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	08/01/00
Batch No.	: 00H011	Date Extracted:	08/04/00 02:59
Sample ID:	18609-3371	Date Analyzed:	08/04/00 02:59
Lab Samp ID:	H011-10	Dilution Factor:	1
Lab File ID:	RHK054	Matrix :	SOIL
Ext Btch ID:	VOH0352	% Moisture :	7.2
Calib. Ref.:	RHK049	Instrument ID :	T-052

PARAMETERS	RESULTS (ug/kg)	PRL (ug/kg)	MDL (ug/kg)
1,1,1-TRICHLOROETHANE	ND	5.4	.37
1,1,2,2-TETRACHLOROETHANE	ND	5.4	.8
1,1,2-TRICHLOROETHANE	ND	5.4	.71
1,1-DICHLOROETHANE	ND	5.4	.56
1,1-DICHLOROETHENE	ND	5.4	.52
1,2-DICHLOROETHANE	ND	5.4	1.1
1,2-DICHLOROPROPANE	ND	5.4	.59
2-BUTANONE	ND	54	1.6
2-CHLOROETHYLVINYLETHER	ND	54	.8
2-HEXANONE	ND	54	1.6
4-METHYL-2-PENTANONE	ND	54	3
ACETONE	9.9J	54	3.1
BENZENE	ND	5.4	.57
BROMODICHLOROMETHANE	ND	5.4	.46
BROMOFORM	ND	5.4	.64
BROMOMETHANE	ND	5.4	3.9
CARBON DISULFIDE	ND	11	.36
CARBON TETRACHLORIDE	ND	5.4	.58
CHLOROBENZENE	ND	5.4	.5
CHLOROETHANE	ND	5.4	.99
CHLOROFORM	ND	5.4	.56
CHLOROMETHANE	ND	5.4	.57
CIS-1,2-DICHLOROETHENE	ND	5.4	.49
CIS-1,3-DICHLOROPROPENE	ND	5.4	.43
DIBROMOCHLOROMETHANE	ND	5.4	.4
ETHYLBENZENE	ND	5.4	.49
MTBE	ND	11	.81
METHYLENE CHLORIDE	ND	11	3.3
STYRENE	ND	5.4	.37
TETRACHLOROETHENE	ND	5.4	.36
TOLUENE	ND	5.4	.62
TRANS-1,2-DICHLOROETHENE	ND	5.4	.51
TRANS-1,3-DICHLOROPROPENE	ND	5.4	.48
TRICHLOROETHENE	ND	5.4	.66
VINYL ACETATE	ND	54	.89
VINYL CHLORIDE	ND	5.4	.63
XYLENES	ND	5.4	1.2

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	117	52-149
BROMOFLUOROBENZENE	81	65-135
TOLUENE-D8	109	65-135

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:	08/01/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	08/01/00
Batch No.	: 00H011	Date Extracted:	08/04/00 03:37
Sample ID:	18609-3372	Date Analyzed:	08/04/00 03:37
Lab Samp ID:	H011-11	Dilution Factor:	1
Lab File ID:	RHK055	Matrix :	SOIL
Ext Btch ID:	VOH0352	% Moisture :	10.6
Calib. Ref.:	RHK049	Instrument ID :	T-052

PARAMETERS	RESULTS (ug/kg)	PRL (ug/kg)	MDL (ug/kg)
1,1,1-TRICHLOROETHANE	ND	5.6	.38
1,1,2,2-TETRACHLOROETHANE	ND	5.6	.83
1,1,2-TRICHLOROETHANE	ND	5.6	.73
1,1-DICHLOROETHANE	ND	5.6	.59
1,1-DICHLOROETHENE	ND	5.6	.54
1,2-DICHLOROETHANE	ND	5.6	1.1
1,2-DICHLOROPROPANE	ND	5.6	.61
2-BUTANONE	ND	56	1.7
2-CHLOROETHYLVINYLETHER	ND	56	.83
2-HEXANONE	ND	56	1.6
4-METHYL-2-PENTANONE	ND	56	3.1
ACETONE	ND	56	3.2
BENZENE	ND	5.6	.59
BROMODICHLOROMETHANE	ND	5.6	.47
BROMOFORM	ND	5.6	.66
BROMOMETHANE	ND	5.6	4
CARBON DISULFIDE	ND	11	.37
CARBON TETRACHLORIDE	ND	5.6	.6
CHLOROBENZENE	ND	5.6	.52
CHLOROETHANE	ND	5.6	1
CHLOROFORM	ND	5.6	.59
CHLOROMETHANE	ND	5.6	.59
CIS-1,2-DICHLOROETHENE	ND	5.6	.51
CIS-1,3-DICHLOROPROPENE	ND	5.6	.45
DIBROMOCHLOROMETHANE	ND	5.6	.41
ETHYLBENZENE	ND	5.6	.51
MTBE	ND	11	.85
METHYLENE CHLORIDE	ND	11	3.4
STYRENE	ND	5.6	.38
TETRACHLOROETHENE	ND	5.6	.38
TOLUENE	ND	5.6	.64
TRANS-1,2-DICHLOROETHENE	ND	5.6	.53
TRANS-1,3-DICHLOROPROPENE	ND	5.6	.5
TRICHLOROETHENE	ND	5.6	.68
VINYL ACETATE	ND	56	.93
VINYL CHLORIDE	ND	5.6	.65
XYLENES	ND	5.6	1.3

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	118	52-149
BROMOFLUOROBENZENE	100	65-135
TOLUENE-D8	119	65-135

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:	08/01/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	08/01/00
Batch No.	: 00H011	Date Extracted:	08/04/00 04:16
Sample ID:	18609-3373	Date Analyzed:	08/04/00 04:16
Lab Samp ID:	H011-12	Dilution Factor:	1
Lab File ID:	RHK056	Matrix :	SOIL
Ext Btch ID:	VOH0352	% Moisture :	7.0
Calib. Ref.:	RHK049	Instrument ID :	T-052

PARAMETERS	RESULTS (ug/kg)	PRL (ug/kg)	MDL (ug/kg)
1,1,1-TRICHLOROETHANE	ND	5.4	.37
1,1,2,2-TETRACHLOROETHANE	ND	5.4	.79
1,1,2-TRICHLOROETHANE	ND	5.4	.71
1,1-DICHLOROETHANE	ND	5.4	.56
1,1-DICHLOROETHENE	ND	5.4	.52
1,2-DICHLOROETHANE	ND	5.4	1.1
1,2-DICHLOROPROPANE	ND	5.4	.59
2-BUTANONE	ND	54	1.6
2-CHLOROETHYLVINYLETHER	ND	54	.8
2-HEXANONE	ND	54	1.6
4-METHYL-2-PENTANONE	ND	54	3
ACETONE	ND	54	3.1
BENZENE	ND	5.4	.57
BROMODICHLOROMETHANE	ND	5.4	.45
BROMOFORM	ND	5.4	.64
BROMOMETHANE	ND	5.4	3.9
CARBON DISULFIDE	ND	11	.36
CARBON TETRACHLORIDE	ND	5.4	.58
CHLOROBENZENE	ND	5.4	.5
CHLOROETHANE	ND	5.4	.99
CHLOROFORM	ND	5.4	.56
CHLOROMETHANE	ND	5.4	.57
CIS-1,2-DICHLOROETHENE	ND	5.4	.49
CIS-1,3-DICHLOROPROPENE	ND	5.4	.43
DIBROMOCHLOROMETHANE	ND	5.4	.39
ETHYLBENZENE	ND	5.4	.49
MTBE	ND	11	.81
METHYLENE CHLORIDE	ND	11	3.2
STYRENE	ND	5.4	.37
TETRACHLOROETHENE	ND	5.4	.36
TOLUENE	ND	5.4	.62
TRANS-1,2-DICHLOROETHENE	ND	5.4	.51
TRANS-1,3-DICHLOROPROPENE	ND	5.4	.48
TRICHLOROETHENE	ND	5.4	.66
VINYL ACETATE	ND	54	.89
VINYL CHLORIDE	ND	5.4	.63
XYLENES	ND	5.4	1.2

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	119	52-149
BROMOFLUOROBENZENE	83	65-135
TOLUENE-D8	109	65-135

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:	08/01/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	08/01/00
Batch No.	: 00H011	Date Extracted:	08/04/00 04:54
Sample ID:	18609-3374	Date Analyzed:	08/04/00 04:54
Lab Samp ID:	H011-13	Dilution Factor:	1
Lab File ID:	RHK057	Matrix :	SOIL
Ext Btch ID:	VOH0352	% Moisture :	7.1
Calib. Ref.:	RHK049	Instrument ID :	T-052

PARAMETERS	RESULTS (ug/kg)	PRL (ug/kg)	MDL (ug/kg)
1,1,1-TRICHLOROETHANE	ND	5.4	.37
1,1,2,2-TETRACHLOROETHANE	ND	5.4	.79
1,1,2-TRICHLOROETHANE	ND	5.4	.71
1,1-DICHLOROETHANE	ND	5.4	.56
1,1-DICHLOROETHENE	ND	5.4	.52
1,2-DICHLOROETHANE	ND	5.4	1.1
1,2-DICHLOROPROPANE	ND	5.4	.59
2-BUTANONE	ND	54	1.6
2-CHLOROETHYLVINYLETHER	ND	54	.8
2-HEXANONE	ND	54	1.6
4-METHYL-2-PENTANONE	ND	54	3
ACETONE	ND	54	3.1
BENZENE	ND	5.4	.57
BROMODICHLOROMETHANE	ND	5.4	.46
BROMOFORM	ND	5.4	.64
BROMOMETHANE	ND	5.4	3.9
CARBON DISULFIDE	ND	11	.36
CARBON TETRACHLORIDE	ND	5.4	.58
CHLOROBENZENE	ND	5.4	.5
CHLOROETHANE	ND	5.4	.99
CHLOROFORM	ND	5.4	.56
CHLOROMETHANE	ND	5.4	.57
CIS-1,2-DICHLOROETHENE	ND	5.4	.49
CIS-1,3-DICHLOROPROPENE	ND	5.4	.43
DIBROMOCHLOROMETHANE	ND	5.4	.4
ETHYLBENZENE	ND	5.4	.49
MTBE	ND	11	.81
METHYLENE CHLORIDE	ND	11	3.3
STYRENE	ND	5.4	.37
TETRACHLOROETHENE	ND	5.4	.36
TOLUENE	ND	5.4	.62
TRANS-1,2-DICHLOROETHENE	ND	5.4	.51
TRANS-1,3-DICHLOROPROPENE	ND	5.4	.48
TRICHLOROETHENE	ND	5.4	.66
VINYL ACETATE	ND	54	.89
VINYL CHLORIDE	ND	5.4	.63
XYLENES	ND	5.4	1.2

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	118	52-149
BROMOFLUOROBENZENE	82	65-135
TOLUENE-D8	109	65-135

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:	08/01/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	08/01/00
Batch No.	: 00H011	Date Extracted:	08/04/00 05:33
Sample ID:	18609-3375	Date Analyzed:	08/04/00 05:33
Lab Samp ID:	H011-14	Dilution Factor:	1
Lab File ID:	RHK058	Matrix :	SOIL
Ext Btch ID:	VOH0352	% Moisture :	3.9
Calib. Ref.:	RHK049	Instrument ID :	T-052

PARAMETERS	RESULTS (ug/kg)	PRL (ug/kg)	MDL (ug/kg)
1,1,1-TRICHLOROETHANE	ND	5.2	.35
1,1,2,2-TETRACHLOROETHANE	ND	5.2	.77
1,1,2-TRICHLOROETHANE	ND	5.2	.68
1,1-DICHLOROETHANE	ND	5.2	.55
1,1-DICHLOROETHENE	ND	5.2	.5
1,2-DICHLOROETHANE	ND	5.2	1
1,2-DICHLOROPROPANE	ND	5.2	.57
2-BUTANONE	ND	52	1.6
2-CHLOROETHYLVINYLETHER	ND	52	.77
2-HEXANONE	ND	52	1.5
4-METHYL-2-PENTANONE	ND	52	2.9
ACETONE	ND	52	3
BENZENE	ND	5.2	.55
BROMODICHLOROMETHANE	ND	5.2	.44
BROMOFORM	ND	5.2	.62
BROMOMETHANE	ND	5.2	3.7
CARBON DISULFIDE	ND	10	.35
CARBON TETRACHLORIDE	ND	5.2	.56
CHLOROBENZENE	ND	5.2	.48
CHLOROETHANE	ND	5.2	.96
CHLOROFORM	ND	5.2	.55
CHLOROMETHANE	ND	5.2	.55
CIS-1,2-DICHLOROETHENE	ND	5.2	.48
CIS-1,3-DICHLOROPROPENE	ND	5.2	.42
DIBROMOCHLOROMETHANE	ND	5.2	.38
ETHYLBENZENE	ND	5.2	.48
MTBE	ND	10	.79
METHYLENE CHLORIDE	ND	10	3.1
STYRENE	ND	5.2	.35
TETRACHLOROETHENE	ND	5.2	.35
TOLUENE	ND	5.2	.6
TRANS-1,2-DICHLOROETHENE	ND	5.2	.49
TRANS-1,3-DICHLOROPROPENE	ND	5.2	.47
TRICHLOROETHENE	ND	5.2	.64
VINYL ACETATE	ND	52	.86
VINYL CHLORIDE	ND	5.2	.61
XYLENES	ND	5.2	1.2

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	121	52-149
BROMOFLUOROBENZENE	81	65-135
TOLUENE-D8	107	65-135

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:	08/01/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	08/01/00
Batch No.	: 00H011	Date Extracted:	08/04/00 06:12
Sample ID:	18609-3377	Date Analyzed:	08/04/00 06:12
Lab Samp ID:	H011-16	Dilution Factor:	1
Lab File ID:	RHK059	Matrix :	SOIL
Ext Btch ID:	VOH0352	% Moisture :	7.0
Calib. Ref.:	RHK049	Instrument ID :	T-052

PARAMETERS	RESULTS (ug/kg)	PRL (ug/kg)	MDL (ug/kg)
1,1,1-TRICHLOROETHANE	ND	5.4	.37
1,1,2,2-TETRACHLOROETHANE	ND	5.4	.79
1,1,2-TRICHLOROETHANE	ND	5.4	.71
1,1-DICHLOROETHANE	ND	5.4	.56
1,1-DICHLOROETHENE	ND	5.4	.52
1,2-DICHLOROETHANE	ND	5.4	1.1
1,2-DICHLOROPROPANE	ND	5.4	.59
2-BUTANONE	ND	54	1.6
2-CHLOROETHYLVINYLETHER	ND	54	.8
2-HEXANONE	ND	54	1.6
4-METHYL-2-PENTANONE	ND	54	3
ACETONE	ND	54	3.1
BENZENE	ND	5.4	.57
BROMODICHLOROMETHANE	ND	5.4	.45
BROMOFORM	ND	5.4	.64
BROMOMETHANE	ND	5.4	3.9
CARBON DISULFIDE	ND	11	.36
CARBON TETRACHLORIDE	ND	5.4	.58
CHLOROBENZENE	ND	5.4	.5
CHLOROETHANE	ND	5.4	.99
CHLOROFORM	ND	5.4	.56
CHLOROMETHANE	ND	5.4	.57
CIS-1,2-DICHLOROETHENE	ND	5.4	.49
CIS-1,3-DICHLOROPROPENE	ND	5.4	.43
DIBROMOCHLOROMETHANE	ND	5.4	.39
ETHYLBENZENE	ND	5.4	.49
MTBE	ND	11	.81
METHYLENE CHLORIDE	ND	11	3.2
STYRENE	ND	5.4	.37
TETRACHLOROETHENE	ND	5.4	.36
TOLUENE	ND	5.4	.62
TRANS-1,2-DICHLOROETHENE	ND	5.4	.51
TRANS-1,3-DICHLOROPROPENE	ND	5.4	.48
TRICHLOROETHENE	ND	5.4	.66
VINYL ACETATE	ND	54	.89
VINYL CHLORIDE	ND	5.4	.63
XYLENES	ND	5.4	1.2

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	119	52-149
BROMOFLUOROBENZENE	87	65-135
TOLUENE-D8	111	65-135

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:	08/01/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	08/01/00
Batch No.	: 00H011	Date Extracted:	08/04/00 06:50
Sample ID:	18609-3378	Date Analyzed:	08/04/00 06:50
Lab Samp ID:	H011-17	Dilution Factor:	1
Lab File ID:	RHK060	Matrix :	SOIL
Ext Btch ID:	VOH0352	% Moisture :	17.1
Calib. Ref.:	RHK049	Instrument ID :	T-052

PARAMETERS	RESULTS (ug/kg)	PRL (ug/kg)	MDL (ug/kg)
1,1,1-TRICHLOROETHANE	ND	6	.41
1,1,2,2-TETRACHLOROETHANE	ND	6	.89
1,1,2-TRICHLOROETHANE	ND	6	.79
1,1-DICHLOROETHANE	ND	6	.63
1,1-DICHLOROETHENE	ND	6	.58
1,2-DICHLOROETHANE	ND	6	1.2
1,2-DICHLOROPROPANE	ND	6	.66
2-BUTANONE	ND	60	1.8
2-CHLOROETHYLVINYLETHER	ND	60	.89
2-HEXANONE	ND	60	1.8
4-METHYL-2-PENTANONE	ND	60	3.4
ACETONE	ND	60	3.5
BENZENE	ND	6	.63
BROMODICHLOROMETHANE	ND	6	.51
BROMOFORM	ND	6	.71
BROMOMETHANE	ND	6	4.3
CARBON DISULFIDE	ND	12	.4
CARBON TETRACHLORIDE	ND	6	.65
CHLOROBENZENE	ND	6	.56
CHLOROETHANE	ND	6	1.1
CHLOROFORM	ND	6	.63
CHLOROMETHANE	ND	6	.64
CIS-1,2-DICHLOROETHENE	ND	6	.55
CIS-1,3-DICHLOROPROPENE	ND	6	.48
DIBROMOCHLOROMETHANE	ND	6	.44
ETHYLBENZENE	ND	6	.55
MTBE	ND	12	.91
METHYLENE CHLORIDE	ND	12	3.6
STYRENE	ND	6	.41
TETRACHLOROETHENE	ND	6	.41
TOLUENE	ND	6	.69
TRANS-1,2-DICHLOROETHENE	ND	6	.57
TRANS-1,3-DICHLOROPROPENE	ND	6	.54
TRICHLOROETHENE	ND	6	.74
VINYL ACETATE	ND	60	1
VINYL CHLORIDE	ND	6	.71
XYLENES	ND	6	1.4

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	107	52-149
BROMOFLUOROBENZENE	93	65-135
TOLUENE-D8	115	65-135

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: 08/01/00
Project : MCAS EL TORO/18609/D.O. 70	Date Received: 08/01/00
Batch No. : 00H011	Date Extracted: 08/04/00 07:29
Sample ID: 18609-3379	Date Analyzed: 08/04/00 07:29
Lab Samp ID: H011-18	Dilution Factor: 1
Lab File ID: RHK061	Matrix : SOIL
Ext Btch ID: VOH0352	% Moisture : 6.3
Calib. Ref.: RHK049	Instrument ID : T-052

PARAMETERS	RESULTS (ug/kg)	PRL (ug/kg)	MDL (ug/kg)
1,1,1-TRICHLOROETHANE	ND	5.3	.36
1,1,2,2-TETRACHLOROETHANE	ND	5.3	.79
1,1,2-TRICHLOROETHANE	ND	5.3	.7
1,1-DICHLOROETHANE	ND	5.3	.56
1,1-DICHLOROETHENE	ND	5.3	.51
1,2-DICHLOROETHANE	ND	5.3	1.1
1,2-DICHLOROPROPANE	ND	5.3	.58
2-BUTANONE	ND	53	1.6
2-CHLOROETHYLVINYLETHER	ND	53	.79
2-HEXANONE	ND	53	1.6
4-METHYL-2-PENTANONE	ND	53	3
ACETONE	ND	53	3.1
BENZENE	ND	5.3	.56
BROMODICHLOROMETHANE	ND	5.3	.45
BROMOFORM	ND	5.3	.63
BROMOMETHANE	ND	5.3	3.8
CARBON DISULFIDE	ND	11	.36
CARBON TETRACHLORIDE	ND	5.3	.57
CHLOROBENZENE	ND	5.3	.5
CHLOROETHANE	ND	5.3	.98
CHLOROFORM	ND	5.3	.56
CHLOROMETHANE	ND	5.3	.56
CIS-1,2-DICHLOROETHENE	ND	5.3	.49
CIS-1,3-DICHLOROPROPENE	ND	5.3	.43
DIBROMOCHLOROMETHANE	ND	5.3	.39
ETHYLBENZENE	ND	5.3	.49
MTBE	ND	11	.81
METHYLENE CHLORIDE	ND	11	3.2
STYRENE	ND	5.3	.36
TETRACHLOROETHENE	ND	5.3	.36
TOLUENE	ND	5.3	.61
TRANS-1,2-DICHLOROETHENE	ND	5.3	.51
TRANS-1,3-DICHLOROPROPENE	ND	5.3	.48
TRICHLOROETHENE	ND	5.3	.65
VINYL ACETATE	ND	53	.89
VINYL CHLORIDE	ND	5.3	.62
XYLENES	ND	5.3	1.2

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	115	52-149
BROMOFLUOROBENZENE	84	65-135
TOLUENE-D8	107	65-135

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:	08/01/00
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	08/01/00
Job No.	: 00H011	Date Extracted:	08/04/00 08:07
Sample ID:	18609-3380	Date Analyzed:	08/04/00 08:07
Lab Samp ID:	H011-19	Dilution Factor:	1
Lab File ID:	RHK062	Matrix :	SOIL
Ext Btch ID:	VOH0352	% Moisture :	13.6
Calib. Ref.:	RHK049	Instrument ID :	T-052

PARAMETERS	RESULTS (ug/kg)	PRL (ug/kg)	MDL (ug/kg)
1,1,1-TRICHLOROETHANE	ND	5.8	.39
1,1,2,2-TETRACHLOROETHANE	ND	5.8	.85
1,1,2-TRICHLOROETHANE	ND	5.8	.76
1,1-DICHLOROETHANE	ND	5.8	.61
1,1-DICHLOROETHENE	ND	5.8	.56
1,2-DICHLOROETHANE	ND	5.8	1.1
1,2-DICHLOROPROPANE	ND	5.8	.63
2-BUTANONE	ND	58	1.8
2-CHLOROETHYLVINYLETHER	ND	58	.86
2-HEXANONE	ND	58	1.7
4-METHYL-2-PENTANONE	ND	58	3.3
ACETONE	ND	58	3.3
BENZENE	ND	5.8	.61
BROMODICHLOROMETHANE	ND	5.8	.49
BROMOFORM	ND	5.8	.69
BROMOMETHANE	ND	5.8	4.2
CARBON DISULFIDE	ND	12	.39
CARBON TETRACHLORIDE	ND	5.8	.62
CHLOROBENZENE	ND	5.8	.54
CHLOROETHANE	ND	5.8	1.1
CHLOROFORM	ND	5.8	.61
CHLOROMETHANE	ND	5.8	.61
cis-1,2-DICHLOROETHENE	ND	5.8	.53
cis-1,3-DICHLOROPROPENE	ND	5.8	.47
DIBROMOCHLOROMETHANE	ND	5.8	.42
ETHYLBENZENE	ND	5.8	.53
MTBE	ND	12	.88
METHYLENE CHLORIDE	ND	12	3.5
STYRENE	ND	5.8	.39
TETRACHLOROETHENE	ND	5.8	.39
TOLUENE	ND	5.8	.67
TRANS-1,2-DICHLOROETHENE	ND	5.8	.55
TRANS-1,3-DICHLOROPROPENE	ND	5.8	.52
TRICHLOROETHENE	ND	5.8	.71
VINYL ACETATE	ND	58	.96
VINYL CHLORIDE	ND	5.8	.68
XYLENES	ND	5.8	1.3

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	111	52-149
BROMOFLUOROBENZENE	84	65-135
TOLUENE-D8	108	65-135

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:	08/03/00
Batch No.	: 00H011	Date Extracted:	08/03/00 21:12
Sample ID:	MBLK1W	Date Analyzed:	08/03/00 21:12
Lab Samp ID:	VOH0352B	Dilution Factor:	1
Lab File ID:	RHK045	Matrix :	WATER
Ext Btch ID:	VOH0352	% Moisture :	NA
Calib. Ref.:	RHK034	Instrument ID :	T-052

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	78	62-139
BROMOFLUOROBENZENE	67*	75-125
TOLUENE-D8	87	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.: 00H011
METHOD: METHOD 5030A/8260A

MATRIX: WATER % MOISTURE: NA

DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK1W				
LAB SAMP ID:	VOH0352B	VOH0252L	VOH0252C		
LAB FILE ID:	RHK045	RHK036	RHK037		
DATE EXTRACTED:	08/03/0021:12	08/03/0010:52	08/03/0012:06	DATE COLLECTED:	NA
DATE ANALYZED:	08/03/0021:12	08/03/0010:52	08/03/0012:06	DATE RECEIVED:	08/03/00
PREP. BATCH:	VOH0352	VOH0352	VOH0352		
CALIB. REF:	RHK034	RHK034	RHK034		

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	21.2	106	20	24.7	123	15	75-125	20
Benzene	ND	20	25.5	127*	20	24.2	121	5	75-125	20
Chlorobenzene	ND	20	19.7	98	20	19.9	99	1	75-125	20
Toluene	ND	20	22.7	114	20	24.6	123	8	74-125	20
Trichloroethene	ND	20	26.8	134*	20	25.9	130*	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	58	116	50	63.5	127	62-139
Bromofluorobenzene	50	46.6	93	50	48.3	97	75-125
Toluene-d8	50	50.9	102	50	56.9	114	75-125

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

Client : IT CORPORATION	Date Collected: NA
Project : MCAS EL TORO/18609/D.O. 70	Date Received: 08/03/00
Batch No. : 00H011	Date Extracted: 08/03/00 21:12
Sample ID: MBLK1S	Date Analyzed: 08/03/00 21:12
Lab Samp ID: VOH0352B	Dilution Factor: 1
Lab File ID: RHK045	Matrix : SOIL
Ext Btch ID: VOH0352	% Moisture : NA
Calib. Ref.: RHK034	Instrument ID : T-052

PARAMETERS	RESULTS (ug/kg)	PRL (ug/kg)	MDL (ug/kg)
1,1,1-TRICHLOROETHANE	ND	5	.34
1,1,2,2-TETRACHLOROETHANE	ND	5	.74
1,1,2-TRICHLOROETHANE	ND	5	.66
1,1-DICHLOROETHANE	ND	5	.52
1,1-DICHLOROETHENE	ND	5	.48
1,2-DICHLOROETHANE	ND	5	.99
1,2-DICHLOROPROPANE	ND	5	.55
2-BUTANONE	ND	50	1.5
2-CHLOROETHYLVINYLETHER	ND	50	.74
2-HEXANONE	ND	50	1.5
4-METHYL-2-PENTANONE	ND	50	2.8
ACETONE	ND	50	2.9
BENZENE	ND	5	.53
BROMODICHLOROMETHANE	ND	5	.42
BROMOFORM	ND	5	.59
BROMOMETHANE	ND	5	3.6
CARBON DISULFIDE	ND	10	.33
CARBON TETRACHLORIDE	ND	5	.54
CHLOROBENZENE	ND	5	.46
CHLOROETHANE	ND	5	.92
CHLOROFORM	ND	5	.52
CHLOROMETHANE	ND	5	.53
CIS-1,2-DICHLOROETHENE	ND	5	.46
CIS-1,3-DICHLOROPROPENE	ND	5	.4
DIBROMOCHLOROMETHANE	ND	5	.37
ETHYLBENZENE	ND	5	.46
MTBE	ND	10	.76
METHYLENE CHLORIDE	ND	10	3
STYRENE	ND	5	.34
TETRACHLOROETHENE	ND	5	.34
TOLUENE	ND	5	.58
TRANS-1,2-DICHLOROETHENE	ND	5	.47
TRANS-1,3-DICHLOROPROPENE	ND	5	.45
TRICHLOROETHENE	ND	5	.61
VINYL ACETATE	ND	50	.83
VINYL CHLORIDE	ND	5	.58
XYLENES	ND	5	1.1

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	78	52-149
BROMOFLUOROBENZENE	67	65-135
TOLUENE-D8	87	65-135

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
[illegible] NO.: 00H011
[illegible]D: METHOD 5030A/8260A

MATRIX:	SOIL			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK1S				
LAB SAMP ID:	VOH0352B	VOH0252L	VOH0252C		
LAB FILE ID:	RHK045	RHK036	RHK037		
DATE EXTRACTED:	08/03/0021:12	08/03/0010:52	08/03/0012:06	DATE COLLECTED:	NA
DATE ANALYZED:	08/03/0021:12	08/03/0010:52	08/03/0012:06	DATE RECEIVED:	08/03/00
PREP. BATCH:	VOH0352	VOH0352	VOH0352		
CALIB. REF:	RHK034	RHK034	RHK034		

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
1,1-Dichloroethene	ND	20	21.2	106	20	24.7	123	15	65-135	30
Benzene	ND	20	25.5	127	20	24.2	121	5	65-135	30
Chlorobenzene	ND	20	19.7	98	20	19.9	99	1	65-135	30
Toluene	ND	20	22.7	114	20	24.6	123	8	64-135	30
Trichloroethene	ND	20	26.8	134	20	25.9	130	3	61-135	30

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT (%)
1,2-Dichlorethane-d4	50	58	116	50	63.5	127	52-149
Bromofluorobenzene	50	46.6	93	50	48.3	97	65-135
[illegible]ene-d8	50	50.9	102	50	56.9	114	65-135

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

Client	: IT CORPORATION	Date Collected:	NA
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	08/04/00
Batch No.	: 00H011	Date Extracted:	08/04/00 02:20
Sample ID:	MBLK2S	Date Analyzed:	08/04/00 02:20
Lab Samp ID:	VOH0352Q	Dilution Factor:	1
Lab File ID:	RHK053	Matrix :	SOIL
Ext Btch ID:	VOH0352	% Moisture :	NA
Calib. Ref.:	RHK049	Instrument ID :	T-052

PARAMETERS	RESULTS (ug/kg)	PRL (ug/kg)	MDL (ug/kg)
1,1,1-TRICHLOROETHANE	ND	5	.34
1,1,2,2-TETRACHLOROETHANE	ND	5	.74
1,1,2-TRICHLOROETHANE	ND	5	.66
1,1-DICHLOROETHANE	ND	5	.52
1,1-DICHLOROETHENE	ND	5	.48
1,2-DICHLOROETHANE	ND	5	.99
1,2-DICHLOROPROPANE	ND	5	.55
2-BUTANONE	ND	50	1.5
2-CHLOROETHYLVINYLETHER	ND	50	.74
2-HEXANONE	ND	50	1.5
4-METHYL-2-PENTANONE	ND	50	2.8
ACETONE	ND	50	2.9
BENZENE	ND	5	.53
BROMODICHLOROMETHANE	ND	5	.42
BROMOFORM	ND	5	.59
BROMOMETHANE	ND	5	3.6
CARBON DISULFIDE	ND	10	.33
CARBON TETRACHLORIDE	ND	5	.54
CHLOROBENZENE	ND	5	.46
CHLOROETHANE	ND	5	.92
CHLOROFORM	ND	5	.52
CHLOROMETHANE	ND	5	.53
CIS-1,2-DICHLOROETHENE	ND	5	.46
CIS-1,3-DICHLOROPROPENE	ND	5	.4
DIBROMOCHLOROMETHANE	ND	5	.37
ETHYLBENZENE	ND	5	.46
MTBE	ND	10	.76
METHYLENE CHLORIDE	ND	10	3
STYRENE	ND	5	.34
TETRACHLOROETHENE	ND	5	.34
TOLUENE	ND	5	.58
TRANS-1,2-DICHLOROETHENE	ND	5	.47
TRANS-1,3-DICHLOROPROPENE	ND	5	.45
TRICHLOROETHENE	ND	5	.61
VINYL ACETATE	ND	50	.83
VINYL CHLORIDE	ND	5	.58
XYLENES	ND	5	1.1

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	101	52-149
BROMOFLUOROBENZENE	67	65-135
TOLUENE-D8	91	65-135

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
[illegible] NO.: 00H011
[illegible]OD: METHOD 5030A/8260A

MATRIX:	SOIL			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK2S				
LAB SAMP ID:	VOH0352Q	VOH0352L	VOH0352C		
LAB FILE ID:	RHK053	RHK050	RHK051		
DATE EXTRACTED:	08/04/0002:20	08/04/0000:25	08/04/0001:04	DATE COLLECTED:	NA
DATE ANALYZED:	08/04/0002:20	08/04/0000:25	08/04/0001:04	DATE RECEIVED:	08/04/00
PREP. BATCH:	VOH0352	VOH0352	VOH0352		
CALIB. REF:	RHK049	RHK049	RHK049		

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
1,1-Dichloroethene	ND	20	18.5	92	20	18.7	94	1	65-135	30
Benzene	ND	20	24.1	120	20	24.8	124	3	65-135	30
Chlorobenzene	ND	20	18.6	93	20	19	95	2	65-135	30
Toluene	ND	20	20.8	104	20	21.5	107	3	64-135	30
Trichloroethene	ND	20	24.8	124	20	26	130	4	61-135	30

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT (%)
1,2-Dichlorethane-d4	50	50.5	101	50	49.6	99	52-149
Bromofluorobenzene	50	34.6	69	50	33.7	67	65-135
[illegible]ne-d8	50	44.2	88	50	44.6	89	65-135

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

Client	: IT CORPORATION	Date Collected:	NA
Project	: MCAS EL TORO/18609/D.O. 70	Date Received:	08/04/00
Batch No.	: 00H011	Date Extracted:	08/04/00 14:41
Sample ID	: MBLK3S	Date Analyzed:	08/04/00 14:41
Lab Samp ID	: VOH0103Q	Dilution Factor:	1
Lab File ID	: RHW021	Matrix	: SOIL
Ext Btch ID	: VOH0103	% Moisture	: NA
Calib. Ref.	: RHW016	Instrument ID	: T-006

PARAMETERS	RESULTS (ug/kg)	PRL (ug/kg)	MDL (ug/kg)
1,1,1-TRICHLOROETHANE	ND	5	.34
1,1,2,2-TETRACHLOROETHANE	ND	5	.74
1,1,2-TRICHLOROETHANE	ND	5	.66
1,1-DICHLOROETHANE	ND	5	.52
1,1-DICHLOROETHENE	ND	5	.48
1,2-DICHLOROETHANE	ND	5	.99
1,2-DICHLOROPROPANE	ND	5	.55
2-BUTANONE	ND	50	1.5
2-CHLOROETHYLVINYLETHER	ND	50	.74
2-HEXANONE	ND	50	1.5
4-METHYL-2-PENTANONE	ND	50	2.8
ACETONE	ND	50	2.9
BENZENE	ND	5	.53
BROMODICHLOROMETHANE	ND	5	.42
BROMOFORM	ND	5	.59
BROMOMETHANE	ND	5	3.6
CARBON DISULFIDE	ND	10	.33
CARBON TETRACHLORIDE	ND	5	.54
CHLOROBENZENE	ND	5	.46
CHLOROETHANE	ND	5	.92
CHLOROFORM	ND	5	.52
CHLOROMETHANE	ND	5	.53
CIS-1,2-DICHLOROETHENE	ND	5	.46
CIS-1,3-DICHLOROPROPENE	ND	5	.4
DIBROMOCHLOROMETHANE	ND	5	.37
ETHYLBENZENE	ND	5	.46
MTBE	ND	10	.76
METHYLENE CHLORIDE	ND	10	3
STYRENE	ND	5	.34
TETRACHLOROETHENE	ND	5	.34
TOLUENE	ND	5	.58
TRANS-1,2-DICHLOROETHENE	ND	5	.47
TRANS-1,3-DICHLOROPROPENE	ND	5	.45
TRICHLOROETHENE	ND	5	.61
VINYL ACETATE	ND	50	.83
VINYL CHLORIDE	ND	5	.58
XYLENES	ND	5	1.1

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	97	52-149
BROMOFLUOROBENZENE	91	65-135
TOLUENE-D8	89	65-135

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
[illegible] NO.: 00H011
[illegible]D: METHOD 5030A/8260A

MATRIX:	SOIL			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK3S				
LAB SAMP ID:	VOH0103Q	VOH0103L	VOH0103C		
LAB FILE ID:	RHW021	RHW018	RHW019		
DATE EXTRACTED:	08/04/0014:41	08/04/0012:44	08/04/0013:23	DATE COLLECTED:	NA
DATE ANALYZED:	08/04/0014:41	08/04/0012:44	08/04/0013:23	DATE RECEIVED:	08/04/00
PREP. BATCH:	VOH0103	VOH0103	VOH0103		
CALIB. REF:	RHW016	RHW016	RHW016		

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
1,1-Dichloroethene	ND	20	20	100	20	19.3	96	4	65-135	30
Benzene	ND	20	18.8	94	20	19.3	97	3	65-135	30
Chlorobenzene	ND	20	19.8	99	20	19.2	96	3	65-135	30
Toluene	ND	20	20.3	101	20	19.5	98	4	64-135	30
Trichloroethene	ND	20	20.1	101	20	20.1	100	0	61-135	30

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT (%)
1,2-Dichlorethane-d4	50	43.7	87	50	44.4	89	52-149
Bromofluorobenzene	50	43.4	87	50	41.4	83	65-135
[illegible]ne-d8	50	45	90	50	43.8	88	65-135

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: MCAS El Toro

Collection Date: January 13, 2000

LDC Report Date: February 22, 2000

Matrix: Soil/Water

Parameters: Total Petroleum Hydrocarbons as Extractables

Validation Level: NFESC Level C

Laboratory: EMAX Laboratories, Inc.

Sample Delivery Group (SDG): 00A037

Sample Identification

18609-2634
18609-2635
18609-2636
18609-2637
18609-2638
18609-2639
18609-2635MS
18609-2635MSD

Introduction

This data review covers 7 soil samples and one water sample 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 (February 1994) 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. Surrogate recoveries (%R) were not within QC limits for sample 18609-2638. Since the sample was diluted out, no data were qualified.

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 18609-2634 was identified as an equipment rinsate. No total petroleum hydrocarbons as extractable contaminants were found in this blank.

MCAS El Toro
Total Petroleum Hydrocarbons as Extractables - Data Qualification Summary - SDG 00A037

No Sample Data Qualified in this SDG

MCAS El Toro
Total Petroleum Hydrocarbons as Extractables - Laboratory Blank Data Qualification Summary - SDG 00A037

No Sample Data Qualified in this SDG

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: MCAS El Toro

Collection Date: January 13, 2000

LDC Report Date: February 22, 2000

Matrix: Soil/Water

Parameters: Total Petroleum Hydrocarbons as Gasoline

Validation Level: NFESC Level C

Laboratory: EMAX Laboratories, Inc.

Sample Delivery Group (SDG): 00A037

Sample Identification

18609-2634
18609-2635
18609-2636
18609-2636DL
18609-2637
18609-2638
18609-2638DL
18609-2639

Introduction

This data review covers 7 soil samples and one water sample 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 (February 1994) 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. Surrogate recoveries (%R) were not within QC limits for several samples. Since the samples were diluted out, no data were qualified.

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

All compound quantitation and CRQLs were within validation criteria with the following exceptions:

Sample	Compound	Finding	Criteria	Flag	A or P
18609-2636 18609-2638	TPH as gasoline	Sample result exceeded calibration range.	Reported result should be within calibration range.	J	A

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 18609-2634 was identified as an equipment rinsate. No total petroleum hydrocarbons as gasoline contaminants were found in this blank.

MCAS El Toro
Total Petroleum Hydrocarbons as Gasoline - Data Qualification Summary - SDG 00A037

SDG	Sample	Compound	Flag	A or P	Reason
00A037	18609-2636 18609-2638	TPH as gasoline	J	A	Compound quantitation and CRQLs

MCAS El Toro
Total Petroleum Hydrocarbons as Gasoline - Laboratory Blank Data Qualification Summary - SDG 00A037

No Sample Data Qualified in this SDG

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: MCAS El Toro

Collection Date: January 13, 2000

LDC Report Date: February 18, 2000

Matrix: Soil/Water

Parameters: Volatiles

Validation Level: NFESC Level C

Laboratory: EMAX Laboratories, Inc.

Sample Delivery Group (SDG): 00A037

Sample Identification

18609-2634
18609-2635
18609-2636
18609-2637
18609-2638
18609-2639
18609-2640
18609-2635MS
18609-2635MSD

Introduction

This data review covers 7 soil samples and 2 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 (February 1994) 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 with the following exceptions:

Date	Compound	%RSD (Limits)	Associated Samples	Flag	A or P
1/18/00	Methylene chloride	59.84 (≤50)	18609-2637 18609-2638 MBLK2S MBLK3S	J	A

Average relative response factors (RRF) for all volatile target compounds and system monitoring compounds were within 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 validation criteria.

V. Blanks

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

Method Blank ID	Analysis Date	Compound TIC (RT in minutes)	Concentration	Associated Samples
MBLK1W.	1/15/00	Methylene chloride	3.5 ug/L	All water samples in SDG 00A037
MBLK1S	1/15/00	Methylene chloride	3.5 ug/Kg	18609-2635 18609-2636 18609-2639

Sample concentrations were compared to concentrations detected in the method blanks. The sample concentrations were either not detected or were significantly greater (>10X for common contaminants, >5X for other contaminants) than the concentrations found in the associated method blanks with the following exceptions:

Sample	Compound TIC (RT in minutes)	Reported Concentration	Modified Final Concentration
18609-2634	Methylene chloride	6.6 ug/L	6.6U ug/L
18609-2640	Methylene chloride	5.9 ug/L	5.9U ug/L
18609-2635	Methylene chloride	6.4 ug/Kg	6.4U ug/Kg
18609-2636	Methylene chloride	1400 ug/Kg	1400U ug/Kg
18609-2639	Methylene chloride	7.2 ug/Kg	7.2U ug/Kg

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 18609-2640 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)
18609-2640	Methylene chloride	5.9

Sample 18609-2634 was identified as an equipment rinsate. No volatile contaminants were found in this blank with the following exceptions:

Equipment Rinsate ID	Compound	Concentration (ug/L)
18609-2634	Methylene chloride	6.6

MCAS El Toro
Volatiles - Data Qualification Summary - SDG 00A037

SDG	Sample	Compound	Flag	A or P	Reason
00A037	18609-2637 18609-2638	Methylene chloride	J	A	Initial calibration (%RSD)

MCAS El Toro
Volatiles - Laboratory Blank Data Qualification Summary - SDG 00A037

SDG	Sample	Compound TIC (RT in minutes)	Modified Final Concentration	A or P
00A037	18609-2634	Methylene chloride	6.6U ug/L	A
00A037	18609-2640	Methylene chloride	5.9U ug/L	A
00A037	18609-2635	Methylene chloride	6.4U ug/Kg	A
00A037	18609-2636	Methylene chloride	1400U ug/Kg	A
00A037	18609-2639	Methylene chloride	7.2U ug/Kg	A

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: MCAS El Toro

Collection Date: January 13, 2000

LDC Report Date: February 22, 2000

Matrix: Soil

Parameters: Total Petroleum Hydrocarbons as Gasoline

Validation Level: NFESC Level C

Laboratory: EMAX Laboratories, Inc.

Sample Delivery Group (SDG): 00A037B

Sample Identification

18609-2636
18609-2638
18609-2638MS
18609-2638MSD

Samples in this SDG underwent SPLP extraction.

Introduction

This data review covers 4 soil 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 (February 1994) 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

No field blanks were identified in this SDG.

MCAS El Toro
Total Petroleum Hydrocarbons as Gasoline - Data Qualification Summary - SDG 00A037B

No Sample Data Qualified in this SDG

MCAS El Toro
Total Petroleum Hydrocarbons as Gasoline - Laboratory Blank Data Qualification Summary - SDG 00A037B

No Sample Data Qualified in this SDG

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: MCAS El Toro

Collection Date: January 13, 2000

LDC Report Date: February 23, 2000

Matrix: Soil

Parameters: Aromatic Volatile Organics

Validation Level: NFESC Level C

Laboratory: EMAX Laboratories, Inc.

Sample Delivery Group (SDG): 00A037B

Sample Identification

18609-2638
18609-2638MS
18609-2638MSD

Samples in this SDG underwent SPLP extraction.

Introduction

This data review covers 3 soil samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8021 for Aromatic Volatile Organics which include Benzene, Toluene, Ethylbenzene and Xylenes (BTEX).

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (February 1994) 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 all 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 aromatic volatile organic 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
Aromatic Volatile Organics - Data Qualification Summary - SDG 00A037B

No Sample Data Qualified in this SDG

MCAS El Toro
Aromatic Volatile Organics - Laboratory Blank Data Qualification Summary - SDG 00A037B

No Sample Data Qualified in this SDG

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: MCAS El Toro

Collection Date: January 14, 2000

LDC Report Date: February 23, 2000

Matrix: Soil/Water

Parameters: Total Petroleum Hydrocarbons as Extractables

Validation Level: NFESC Level C & D

Laboratory: EMAX Laboratories. Inc.

Sample Delivery Group (SDG): 00A044

Sample Identification

18609-2642
18609-2643
18609-2644**
18609-2645
18609-2646
18609-2647
18609-2648
18609-2649

**Indicates sample underwent NFESC Level D review

Introduction

This data review covers 7 soil samples and one water sample 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 (February 1994) 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.

Samples indicated by a double asterisk on the front cover underwent a NFESC Level D review. A NFESC Level C review was performed on all of the other samples. Raw data were not evaluated for the samples reviewed by Level C criteria since this review is 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. Surrogate recoveries (%R) were not within QC limits for several samples. Since the samples were diluted out, no data were qualified.

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

All target compound identifications were within validation criteria for samples on which a NFESC Level D review was performed. Raw data were not evaluated for the samples reviewed by Level C criteria.

VI. Compound Quantitation and CRQLs

All compound quantitation and CRQLs were within validation criteria for samples on which a NFESC Level D review was performed. Raw data were not evaluated for the samples reviewed by Level C criteria.

VII. System Performance

The system performance was within validation criteria for samples on which a NFESC Level D review was performed. Raw data were not evaluated for the samples reviewed by Level C criteria.

VIII. Overall Assessment of Data

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

IX. Field Duplicates

Samples 18609-2643 and 18609-2644** were identified as field duplicates. No total petroleum hydrocarbons as extractables were detected in any of the samples with the following exceptions:

Compound	Concentration (mg/Kg)		RPD
	18609-2643	18609-2644**	
TPH as extractables	12000	34000	96

X. Field Blanks

Sample 18609-2647 was identified as an equipment rinsate. No total petroleum hydrocarbons as extractable contaminants were found in this blank with the following exceptions:

Equipment Rinsate ID	Compound	Concentration (mg/L)
18609-2647	TPH as extractables	0.11

MCAS El Toro
Total Petroleum Hydrocarbons as Extractables - Data Qualification Summary - SDG 00A044

No Sample Data Qualified in this SDG

MCAS El Toro
Total Petroleum Hydrocarbons as Extractables - Laboratory Blank Data Qualification Summary - SDG 00A044

No Sample Data Qualified in this SDG

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: MCAS El Toro

Collection Date: January 14, 2000

LDC Report Date: February 22, 2000

Matrix: Soil/Water

Parameters: Total Petroleum Hydrocarbons as Gasoline

Validation Level: NFESC Level C & D

Laboratory: EMAX Laboratories, Inc.

Sample Delivery Group (SDG): 00A044

Sample Identification

18609-2642
18609-2643
18609-2644**
18609-2645
18609-2646
18609-2647
18609-2648
18609-2649
18609-2645MS
18609-2645MSD
18609-2647MS
18609-2647MSD

**Indicates sample underwent NFESC Level D review

Introduction

This data review covers 9 soil samples and 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 (February 1994) 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.

Samples indicated by a double asterisk on the front cover underwent a NFESC Level D review. A NFESC Level C review was performed on all of the other samples. Raw data were not evaluated for the samples reviewed by Level C criteria since this review is 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 not within QC limits. Since the sample concentration was greater than the spiked concentration, no data were qualified.

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

All target compound identifications were within validation criteria for samples on which a NFESC Level D review was performed. Raw data were not evaluated for the samples reviewed by Level C criteria.

VI. Compound Quantitation and CRQLs

All compound quantitation and CRQLs were within validation criteria for samples on which a NFESC Level D review was performed. Raw data were not evaluated for the samples reviewed by Level C criteria.

VII. System Performance

The system performance was within validation criteria for samples on which a NFESC Level D review was performed. Raw data were not evaluated for the samples reviewed by Level C criteria.

VIII. Overall Assessment of Data

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

IX. Field Duplicates

Samples 18609-2643 and 18609-2644** were identified as field duplicates. No total petroleum hydrocarbons as gasoline were detected in any of the samples with the following exceptions:

Compound	Concentration (mg/Kg)		RPD
	18609-2643	18609-2644**	
TPH as gasoline	4400	7600	53

X. Field Blanks

Sample 18609-2647 was identified as an equipment rinsate. No total petroleum hydrocarbons as gasoline contaminants were found in this blank.

MCAS El Toro
Total Petroleum Hydrocarbons as Gasoline - Data Qualification Summary - SDG 00A044

No Sample Data Qualified in this SDG

MCAS El Toro
Total Petroleum Hydrocarbons as Gasoline - Laboratory Blank Data Qualification Summary - SDG 00A044

No Sample Data Qualified in this SDG

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: MCAS El Toro

Collection Date: January 14, 2000

LDC Report Date: February 18, 2000

Matrix: Soil/Water

Parameters: Volatiles

Validation Level: NFESC Level C & D

Laboratory: EMAX Laboratories, Inc.

Sample Delivery Group (SDG): 00A044

Sample Identification

18609-2641
18609-2642
18609-2643
18609-2644**
18609-2645
18609-2646
18609-2647
18609-2648
18609-2649
18609-2642MS
18609-2642MSD

**Indicates sample underwent NFESC Level D review

Introduction

This data review covers 9 soil samples and 2 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 (February 1994) 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.

Samples indicated by a double asterisk on the front cover underwent a NFESC Level D review. A NFESC Level C review was performed on all of the other samples. Raw data were not evaluated for the samples reviewed by Level C criteria since this review is 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 with the following exceptions:

Date	Compound	%RSD	Associated Samples	Flag	A or P
1/18/00	Methylene chloride	59.84	All samples in SDG 00A044	J	A

Average relative response factors (RRF) for all semivolatile target compounds and system monitoring compounds were greater than or equal to 0.05 as required.

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 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

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

All target compound identifications were within validation criteria for samples on which a NFESC Level D review was performed. Raw data were not evaluated for the samples reviewed by Level C criteria.

XII. Compound Quantitation and CRQLs

All compound quantitation and CRQLs were within validation criteria for samples on which a NFESC Level D review was performed. Raw data were not evaluated for the samples reviewed by Level C criteria.

XIII. Tentatively Identified Compounds (TICs)

Tentatively identified compounds were not reported by the laboratory.

XIV. System Performance

The system performance was within validation criteria for samples on which a NFESC Level D review was performed. Raw data were not evaluated for the samples reviewed by Level C criteria.

XV. Overall Assessment of Data

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

XVI. Field Duplicates

Samples 18609-2643 and 18609-2644** were identified as field duplicates. No volatiles were detected in any of the samples with the following exceptions:

Compound	Concentration (ug/Kg)		RPD
	18609-2643	18609-2644**	
Ethylbenzene	960	8000	157

XVII. Field Blanks

Sample 18609-2641 was identified as a trip blank. No volatile contaminants were found in this blank.

Sample 18609-2647 was identified as an equipment rinsate. No volatile contaminants were found in this blank with the following exceptions:

Equipment Rinsate ID	Compound	Concentration (ug/L)
18609-2647	Toluene	1.7

MCAS El Toro
Volatiles - Data Qualification Summary - SDG 00A044

SDG	Sample	Compound	Flag	A or P	Reason
00A044	18609-2641 18609-2642 18609-2643 18609-2644** 18609-2645 18609-2646 18609-2647 18609-2648 18609-2649	Methylene chloride	J	A	Initial calibration (%RSD)

MCAS El Toro
Volatiles - Laboratory Blank Data Qualification Summary - SDG 00A044

No Sample Data Qualified in this SDG

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: MCAS El Toro

Collection Date: January 17, 2000

LDC Report Date: February 23, 2000

Matrix: Soil/Water

Parameters: Total Petroleum Hydrocarbons as Extractables

Validation Level: NFESC Level C & D

Laboratory: EMAX Laboratories, Inc.

Sample Delivery Group (SDG): 00A053

Sample Identification

18609-2650
18609-2651
18609-2652
18609-2653
18609-2654
18609-2655
18609-2656**
18609-2657
18609-2658
18609-2651MS
18609-2651MSD

**Indicates sample underwent NFESC Level D review

Introduction

This data review covers 10 soil samples and one water sample 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 (February 1994) 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.

Samples indicated by a double asterisk on the front cover underwent a NFESC Level D review. A NFESC Level C review was performed on all of the other samples. Raw data were not evaluated for the samples reviewed by Level C criteria since this review is 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. Surrogate recoveries (%R) were not within QC limits for several samples. Since the samples were diluted out, no data were qualified.

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 with the following exceptions:

Spike ID (Associated Samples)	Compound	MS (%R) (Limits)	MSD (%R) (Limits)	RPD (Limits)	Flag	A or P
18609-2651MS/MSD (All soil samples in SDG 00A053)	TPH as diesel	-	-	59 (≤40)	J	A

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

All target compound identifications were within validation criteria for samples on which a NFESC Level D review was performed. Raw data were not evaluated for the samples reviewed by Level C criteria.

VI. Compound Quantitation and CRQLs

All compound quantitation and CRQLs were within validation criteria for samples on which a NFESC Level D review was performed. Raw data were not evaluated for the samples reviewed by Level C criteria.

VII. System Performance

The system performance was within validation criteria for samples on which a NFESC Level D review was performed. Raw data were not evaluated for the samples reviewed by Level C criteria.

VIII. Overall Assessment of Data

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

IX. Field Duplicates

Samples 18609-2655 and 18609-2656** were identified as field duplicates. No total petroleum hydrocarbons as extractables were detected in any of the samples with the following exceptions:

Compound	Concentration (mg/Kg)		RPD
	18609-2655	18609-2656**	
TPH as diesel	3000	2800	7

X. Field Blanks

Sample 18609-2653 was identified as an equipment rinsate. No total petroleum hydrocarbons as extractable contaminants were found in this blank.

MCAS El Toro
Total Petroleum Hydrocarbons as Extractables - Data Qualification Summary - SDG 00A053

SDG	Sample	Compound	Flag	A or P	Reason
00A053	18609-2650 18609-2651 18609-2652 18609-2654 18609-2655 18609-2656** 18609-2657 18609-2658	TPH as extractables	J	A	Matrix spike/Matrix spike duplicates (RPD)

MCAS El Toro
Total Petroleum Hydrocarbons as Extractables - Laboratory Blank Data Qualification Summary - SDG 00A053

No Sample Data Qualified in this SDG

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: MCAS El Toro

Collection Date: January 17, 2000

LDC Report Date: February 23, 2000

Matrix: Soil/Water

Parameters: Total Petroleum Hydrocarbons as Gasoline

Validation Level: NFESC Level C & D

Laboratory: EMAX Laboratories, Inc.

Sample Delivery Group (SDG): 00A053

Sample Identification

18609-2650
18609-2651
18609-2652
18609-2652DL
18609-2653
18609-2654
18609-2654RE
18609-2655
18609-2656**
18609-2657
18609-2658

**Indicates sample underwent NFESC Level D review

Introduction

This data review covers 10 soil samples and one water sample 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 (February 1994) 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.

Samples indicated by a double asterisk on the front cover underwent a NFESC Level D review. A NFESC Level C review was performed on all of the other samples. Raw data were not evaluated for the samples reviewed by Level C criteria since this review is 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

All target compound identifications were within validation criteria for samples on which a NFESC Level D review was performed. Raw data were not evaluated for the samples reviewed by Level C criteria.

VI. Compound Quantitation and CRQLs

All compound quantitation and CRQLs were within validation criteria for samples on which a NFESC Level D review was performed with the following exceptions:

Sample	Compound	Finding	Criteria	Flag	A or P
18609-2652	TPH as gasoline	Sample result exceeded calibration range.	Reported result should be within calibration range.	J	A

Raw data were not evaluated for the samples reviewed by Level C criteria.

VII. System Performance

The system performance was within validation criteria for samples on which a NFESC Level D review was performed. Raw data were not evaluated for the samples reviewed by Level C criteria.

VIII. Overall Assessment of Data

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

IX. Field Duplicates

Samples 18609-2655 and 18609-2656** were identified as field duplicates. No total petroleum hydrocarbons as gasoline were detected in any of the samples with the following exceptions:

Compound	Concentration (mg/Kg)		RPD
	18609-2655	18609-2656**	
TPH as gasoline	1400	2500	56

X. Field Blanks

Sample 18609-2653 was identified as an equipment rinsate. No total petroleum hydrocarbons as gasoline contaminants were found in this blank.

MCAS El Toro
Total Petroleum Hydrocarbons as Gasoline - Data Qualification Summary - SDG 00A053

SDG	Sample	Compound	Flag	A or P	Reason
00A053	18609-2652	TPH as gasoline	J	A	Compound quantitation and CRQLs

MCAS El Toro
Total Petroleum Hydrocarbons as Gasoline - Laboratory Blank Data Qualification Summary - SDG 00A053

No Sample Data Qualified in this SDG

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: MCAS El Toro

Collection Date: January 17, 2000

LDC Report Date: February 18, 2000

Matrix: Soil/Water

Parameters: Volatiles

Validation Level: NFESC Level C & D

Laboratory: EMAX Laboratories, Inc.

Sample Delivery Group (SDG): 00A053

Sample Identification

18609-2650
18609-2651
18609-2652
18609-2653
18609-2654
18609-2655
18609-2656**
18609-2657
18609-2658
18609-2659

**Indicates sample underwent NFESC Level D review

Introduction

This data review covers 8 soil samples and 2 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 (February 1994) 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.

Samples indicated by a double asterisk on the front cover underwent a NFESC Level D review. A NFESC Level C review was performed on all of the other samples. Raw data were not evaluated for the samples reviewed by Level C criteria since this review is 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 semivolatile target compounds and system monitoring compounds were greater than or equal to 0.05 as required.

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 validation criteria.

V. Blanks

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

Method Blank ID	Analysis Date	Compound TIC (RT in minutes)	Concentration	Associated Samples
MBLK1W	1/18/00	Methylene chloride	7 ug/L	All water samples in SDG 00A053
MBLK1S	1/18/00	Methylene chloride	200 ug/Kg	All soil samples in SDG 00A053

Sample concentrations were compared to concentrations detected in the method blanks. The sample concentrations were either not detected or were significantly greater (>10X for common contaminants, >5X for other contaminants) than the concentrations found in the associated method blanks with the following exceptions:

Sample	Compound TIC (RT in minutes)	Reported Concentration	Modified Final Concentration
18609-2653	Methylene chloride	5.8 ug/L	5.8U ug/L
18609-2659	Methylene chloride	6.1 ug/L	6.1U ug/L
18609-2650	Methylene chloride	1900 ug/Kg	1900U ug/Kg
18609-2651	Methylene chloride	700 ug/Kg	700U ug/Kg
18609-2652	Methylene chloride	750 ug/Kg	750U ug/Kg
18609-2654	Methylene chloride	730 ug/Kg	730U ug/Kg
18609-2655	Methylene chloride	600 ug/Kg	600U ug/Kg
18609-2656**	Methylene chloride	750 ug/Kg	750U ug/Kg
18609-2657	Methylene chloride	730 ug/Kg	730U ug/Kg
18609-2658	Methylene chloride	730 ug/Kg	730U ug/Kg

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

All target compound identifications were within validation criteria for samples on which a NFESC Level D review was performed. Raw data were not evaluated for the samples reviewed by Level C criteria.

XII. Compound Quantitation and CRQLs

All compound quantitation and CRQLs were within validation criteria for samples on which a NFESC Level D review was performed. Raw data were not evaluated for the samples reviewed by Level C criteria.

XIII. Tentatively Identified Compounds (TICs)

Tentatively identified compounds were not reported by the laboratory.

XIV. System Performance

The system performance was within validation criteria for samples on which a NFESC Level D review was performed. Raw data were not evaluated for the samples reviewed by Level C criteria.

XV. Overall Assessment of Data

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

XVI. Field Duplicates

Samples 18609-2655 and 18609-2656** were identified as field duplicates. No volatiles were detected in any of the samples with the following exceptions:

Compound	Concentration (ug/Kg)		RPD
	18609-2655	18609-2656**	
Methylene chloride	600	750	22

XVII. Field Blanks

Sample 18609-2653 was identified as an equipment rinsate. No volatile contaminants were found in this blank with the following exceptions:

Equipment Rinsate ID	Compound	Concentration (ug/L)
18609-2653	Methylene chloride	5.8

Sample 18609-2659 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)
18609-2659	Methylene chloride	6.1

MCAS El Toro
Volatiles - Data Qualification Summary - SDG 00A053

No Sample Data Qualified in this SDG

MCAS El Toro
Volatiles - Laboratory Blank Data Qualification Summary - SDG 00A053

SDG	Sample	Compound TIC (RT in minutes)	Modified Final Concentration	A or P
00A053	18609-2653	Methylene chloride	5.8U ug/L	A
00A053	18609-2659	Methylene chloride	6.1U ug/L	A
00A053	18609-2650	Methylene chloride	1900U ug/Kg	A
00A053	18609-2651	Methylene chloride	700U ug/Kg	A
00A053	18609-2652	Methylene chloride	750U ug/Kg	A
00A053	18609-2654	Methylene chloride	730U ug/Kg	A
00A053	18609-2655	Methylene chloride	600U ug/Kg	A
00A053	18609-2656**	Methylene chloride	750U ug/Kg	A
00A053	18609-2657	Methylene chloride	730U ug/Kg	A
00A053	18609-2658	Methylene chloride	730U ug/Kg	A

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: MCAS El Toro

Collection Date: January 18, 2000

LDC Report Date: February 22, 2000

Matrix: Soil/Water

Parameters: Total Petroleum Hydrocarbons as Extractables

Validation Level: NFESC Level C

Laboratory: EMAX Laboratories, Inc.

Sample Delivery Group (SDG): 00A061

Sample Identification

18609-2661
18609-2662
18609-2663
18609-2664
18609-2665
18609-2666
18609-2667
18609-2668
18609-2669
18609-2670
18609-2670MS
18609-2670MSD

Introduction

This data review covers 11 soil samples and one water sample 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 (February 1994) 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. Surrogate recoveries (%R) were not within QC limits. Since the samples were diluted out, no data were qualified.

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 18609-2668 was identified as an equipment rinsate. No total petroleum hydrocarbons as extractable contaminants were found in this blank.

MCAS El Toro
Total Petroleum Hydrocarbons as Extractables - Data Qualification Summary - SDG 00A061

No Sample Data Qualified in this SDG

MCAS El Toro
Total Petroleum Hydrocarbons as Extractables - Laboratory Blank Data Qualification Summary - SDG 00A061

No Sample Data Qualified in this SDG

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: MCAS El Toro

Collection Date: January 18, 2000

LDC Report Date: February 18, 2000

Matrix: Soil/Water

Parameters: Volatiles

Validation Level: NFESC Level C

Laboratory: EMAX Laboratories, Inc.

Sample Delivery Group (SDG): 00A061

Sample Identification

18609-2660
18609-2661
18609-2662
18609-2663
18609-2664
18609-2665
18609-2666
18609-2668
18609-2669
18609-2670
18609-2670MS
18609-2670MSD

Introduction

This data review covers 10 soil samples and 2 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 (February 1994) 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 monitoring compounds were within 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 validation criteria with the following exceptions:

Date	Compound	RRF (Limits)	Associated Samples	Flag	A or P
1/24/00	Acetone	0.04795 (≥0.05)	18609-2661 18609-2669 MBLK2S	J (all detects) R (all non-detects)	A

Date	Compound	RRF (Limits)	Associated Samples	Flag	A or P
1/21/00	Acetone	0.04163 (≥0.05)	18609-2660 18609-2662 18609-2663 18609-2664 18609-2665 18609-2666 18609-2668 18609-2670 18609-2670MS 18609-2670MSD MBLK1W MBLK1S	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 with the following exceptions:

Method Blank ID	Analysis Date	Compound TIC (RT in minutes)	Concentration	Associated Samples
MBLK1W	1/21/00	Methylene chloride	1.9 ug/L	All water samples in SDG 00A061
MBLK1S	1/21/00	Methylene chloride	1.9 ug/Kg	18609-2662 18609-2663 18609-2664 18609-2665 18609-2666 18609-2670
MBLK2S	1/24/00	Methylene chloride	1.6 ug/Kg	18609-2661 18609-2669

Sample concentrations were compared to concentrations detected in the method blanks. The sample concentrations were either not detected or were significantly greater (>10X for common contaminants, >5X for other contaminants) than the concentrations found in the associated method blanks with the following exceptions:

Sample	Compound TIC (RT in minutes)	Reported Concentration	Modified Final Concentration
18609-2660	Methylene chloride	2.6 ug/L	5U ug/L
18609-2668	Methylene chloride	3 ug/L	5U ug/L
18609-2662	Methylene chloride	560 ug/Kg	1100U ug/Kg

Sample	Compound TIC (RT in minutes)	Reported Concentration	Modified Final Concentration
18609-2663	Methylene chloride	700 ug/Kg	1300U ug/Kg
18609-2664	Methylene chloride	650 ug/Kg	1200U ug/Kg
18609-2665	Methylene chloride	470 ug/Kg	1100U ug/Kg
18609-2666	Methylene chloride	610 ug/Kg	1200U ug/Kg
18609-2670	Methylene chloride	480 ug/Kg	1200U ug/Kg
18609-2661	Methylene chloride	1300 ug/Kg	2800U ug/Kg
18609-2669	Methylene chloride	1400 ug/Kg	3100U ug/Kg

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 18609-2660 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)
18609-2660	Methylene chloride	2.6

Sample 18609-2668 was identified as an equipment rinsate. No volatile contaminants were found in this blank with the following exceptions:

Equipment Rinsate ID	Compound	Concentration (ug/L)
18609-2668	Methylene chloride	3

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: MCAS El Toro

Collection Date: January 18, 2000

LDC Report Date: February 22, 2000

Matrix: Soil/Water

Parameters: Total Petroleum Hydrocarbons as Gasoline

Validation Level: NFESC Level C

Laboratory: EMAX Laboratories, Inc.

Sample Delivery Group (SDG): 00A061

Sample Identification

18609-2661
18609-2662
18609-2663
18609-2664
18609-2665
18609-2666
18609-2668
18609-2669
18609-2670
18609-2668MS
18609-2668MSD

Introduction

This data review covers 8 soil samples and 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 (February 1994) 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 18609-2668 was identified as an equipment rinsate. No total petroleum hydrocarbons as gasoline contaminants were found in this blank.

MCAS El Toro
Total Petroleum Hydrocarbons as Gasoline - Data Qualification Summary - SDG 00A061

No Sample Data Qualified in this SDG

MCAS El Toro
Total Petroleum Hydrocarbons as Gasoline - Laboratory Blank Data Qualification Summary - SDG 00A061

No Sample Data Qualified in this SDG

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: MCAS El Toro

Collection Date: January 18, 2000

LDC Report Date: February 22, 2000

Matrix: Soil

Parameters: Total Petroleum Hydrocarbons as Gasoline

Validation Level: NFESC Level C

Laboratory: EMAX Laboratories, Inc.

Sample Delivery Group (SDG): 00A061A

Sample Identification

18609-2667

Introduction

This data review covers one soil sample 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 (February 1994) 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

No field blanks were identified in this SDG.

MCAS El Toro
Total Petroleum Hydrocarbons as Gasoline - Data Qualification Summary - SDG 00A061A

No Sample Data Qualified in this SDG

MCAS El Toro
Total Petroleum Hydrocarbons as Gasoline - Laboratory Blank Data Qualification Summary - SDG 00A061A

No Sample Data Qualified in this SDG

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name:	MCAS El Toro
Collection Date:	January 18, 2000
LDC Report Date:	February 18, 2000
Matrix:	Soil
Parameters:	Volatiles
Validation Level:	NFESC Level C
Laboratory:	EMAX Laboratories, Inc.
Sample Delivery Group (SDG):	00A061A

Sample Identification

18609-2667

Introduction

This data review covers one soil sample 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 (February 1994) 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 monitoring compounds were within 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 validation criteria with the following exceptions:

Date	Compound	RRF (Limits)	Associated Samples	Flag	A or P
1/21/00	Acetone	0.04163 (≥0.05)	All samples in SDG 00A061A	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 with the following exceptions:

Method Blank ID	Analysis Date	Compound TIC (RT in minutes)	Concentration	Associated Samples
MBLK1S	1/21/00	Methylene chloride	97 ug/Kg	All samples in SDG 00A061A

Sample concentrations were compared to concentrations detected in the method blanks. The sample concentrations were either not detected or were significantly greater (>10X for common contaminants, >5X for other contaminants) than the concentrations found in the associated method blanks with the following exceptions:

Sample	Compound TIC (RT in minutes)	Reported Concentration	Modified Final Concentration
18609-2667	Methylene chloride	480 ug/Kg	1100U ug/Kg

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

No field blanks were identified in this SDG.

LDC Report# 453918

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: MCAS El Toro

Collection Date: January 19, 2000

LDC Report Date: February 29, 2000

Matrix: Soil/Water

Parameters: Total Petroleum Hydrocarbons as Extractables

Validation Level: NFESC Level C & D

Laboratory: EMAX Laboratories, Inc.

Sample Delivery Group (SDG): 00A073

Sample Identification

18609-2672
18609-2673
18609-2674**
18609-2675
18609-2676
18609-2677
18609-2678
18609-2679
18609-2680

**Indicates sample underwent NFESC Level D review

Introduction

This data review covers 8 soil samples and one water sample 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 (February 1994) 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.

Samples indicated by a double asterisk on the front cover underwent a NFESC Level D review. A NFESC Level C review was performed on all of the other samples. Raw data were not evaluated for the samples reviewed by Level C criteria since this review is 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. Surrogate recoveries (%R) were not within QC limits for several samples. Since the samples were diluted out, no data were qualified.

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

All target compound identifications were within validation criteria for samples on which a NFESC Level D review was performed. Raw data were not evaluated for the samples reviewed by Level C criteria.

VI. Compound Quantitation and CRQLs

All compound quantitation and CRQLs were within validation criteria for samples on which a NFESC Level D review was performed. Raw data were not evaluated for the samples reviewed by Level C criteria.

VII. System Performance

The system performance was within validation criteria for samples on which a NFESC Level D review was performed. Raw data were not evaluated for the samples reviewed by Level C criteria.

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 18609-2679 was identified as an equipment rinsate. No total petroleum hydrocarbons as extractable contaminants were found in this blank.

MCAS El Toro
Total Petroleum Hydrocarbons as Extractables - Data Qualification Summary - SDG 00A073

No Sample Data Qualified in this SDG

MCAS El Toro
Total Petroleum Hydrocarbons as Extractables - Laboratory Blank Data Qualification Summary - SDG 00A073

No Sample Data Qualified in this SDG

LDC Report# 453917

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: MCAS El Toro

Collection Date: January 19, 2000

LDC Report Date: February 28, 2000

Matrix: Soil/Water

Parameters: Total Petroleum Hydrocarbons as Gasoline

Validation Level: NFESC Level C & D

Laboratory: EMAX Laboratories, Inc.

Sample Delivery Group (SDG): 00A073

Sample Identification

18609-2672
18609-2673
18609-2674**
18609-2675
18609-2676
18609-2677
18609-2678
18609-2679
18609-2680

**Indicates sample underwent NFESC Level D review

Introduction

This data review covers 8 soil samples and one water sample 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 (February 1994) 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.

Samples indicated by a double asterisk on the front cover underwent a NFESC Level D review. A NFESC Level C review was performed on all of the other samples. Raw data were not evaluated for the samples reviewed by Level C criteria since this review is 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

All target compound identifications were within validation criteria for samples on which a NFESC Level D review was performed. Raw data were not evaluated for the samples reviewed by Level C criteria.

VI. Compound Quantitation and CRQLs

All compound quantitation and CRQLs were within validation criteria for samples on which a NFESC Level D review was performed. Raw data were not evaluated for the samples reviewed by Level C criteria.

VII. System Performance

The system performance was within validation criteria for samples on which a NFESC Level D review was performed. Raw data were not evaluated for the samples reviewed by Level C criteria.

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 18609-2679 was identified as an equipment rinsate. No total petroleum hydrocarbons as gasoline contaminants were found in this blank.

MCAS El Toro
Total Petroleum Hydrocarbons as Gasoline - Data Qualification Summary - SDG 00A073

No Sample Data Qualified in this SDG

MCAS El Toro
Total Petroleum Hydrocarbons as Gasoline - Laboratory Blank Data Qualification Summary - SDG 00A073

No Sample Data Qualified in this SDG

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: MCAS El Toro

Collection Date: January 19, 2000

LDC Report Date: February 24, 2000

Matrix: Soil/Water

Parameters: Volatiles

Validation Level: NFESC Level C & D

Laboratory: EMAX Laboratories, Inc.

Sample Delivery Group (SDG): 00A073

Sample Identification

18609-2671
18609-2672
18609-2673
18609-2674**
18609-2675
18609-2676
18609-2677
18609-2678
18609-2679
18609-2680

**Indicates sample underwent NFESC Level D review

Introduction

This data review covers 8 soil samples and 2 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 (February 1994) 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.

Samples indicated by a double asterisk on the front cover underwent a NFESC Level D review. A NFESC Level C review was performed on all of the other samples. Raw data were not evaluated for the samples reviewed by Level C criteria since this review is 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 selected calibration check compounds and less than or equal to 50.0% for all other selected compounds.

A curve fit, based on the initial calibration, was established for quantitation for selected compounds. The coefficient of determination (r^2) was greater than or equal to 0.990 .

Average relative response factors (RRF) for all semivolatile target compounds and system monitoring compounds were greater than or equal to 0.05 as required.

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 validation criteria with the following exceptions:

Date	Compound	RRF (Limits)	Associated Samples	Flag	A or P
1/24/00	Acetone	0.04795 (≥0.05)	18609-2671 18609-2672 18609-2673 18609-2674** 18609-2675 18609-2677 18609-2678 18609-2679 18609-2680 MBLK1W MBLK1S	J	A
1/25/00	Acetone	0.04907 (≥0.05)	18609-2676 MBLK2S	J	A

V. Blanks

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

Method Blank ID	Analysis Date	Compound TIC (RT in minutes)	Concentration	Associated Samples
MBLK1S	1/24/00	Methylene chloride	79 ug/Kg	18609-2672 18609-2673 18609-2674** 18609-2675 18609-2677 18609-2678 18609-2680
MBLK2S	1/25/00	Methylene chloride	61 ug/Kg	18609-2676

Sample concentrations were compared to concentrations detected in the method blanks. The sample concentrations were either not detected or were significantly greater (>10X for common contaminants, >5X for other contaminants) than the concentrations found in the associated method blanks with the following exceptions:

Sample	Compound TIC (RT in minutes)	Reported Concentration	Modified Final Concentration
18609-2672	Methylene chloride	1300 ug/Kg	2700U ug/Kg
18609-2673	Methylene chloride	1800 ug/Kg	2700U ug/Kg
18609-2674**	Methylene chloride	1600 ug/Kg	2800U ug/Kg

Sample	Compound TIC (RT in minutes)	Reported Concentration	Modified Final Concentration
18609-2675	Methylene chloride	1600 ug/Kg	3100U ug/Kg
18609-2677	Methylene chloride	1400 ug/Kg	2800U ug/Kg
18609-2678	Methylene chloride	2000 ug/Kg	3000U ug/Kg
18609-2680	Methylene chloride	1500 ug/Kg	2900U ug/Kg
18609-2676	Methylene chloride	580 ug/Kg	2600U ug/Kg

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

All target compound identifications were within validation criteria for samples on which a NFESC Level D review was performed. Raw data were not evaluated for the samples reviewed by Level C criteria.

XII. Compound Quantitation and CRQLs

All compound quantitation and CRQLs were within validation criteria for samples on which a NFESC Level D review was performed. Raw data were not evaluated for the samples reviewed by Level C criteria.

XIII. Tentatively Identified Compounds (TICs)

Tentatively identified compounds were not reported by the laboratory.

XIV. System Performance

The system performance was within validation criteria for samples on which a NFESC Level D review was performed. Raw data were not evaluated for the samples reviewed by Level C criteria.

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 18609-2679 was identified as an equipment rinsate. No volatile contaminants were found in this blank with the following exceptions:

Equipment Rinsate ID	Compound	Concentration (ug/L)
18609-2679	Methylene chloride	2.1

Sample 18609-2671 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)
18609-2671	Methylene chloride	2.5

MCAS El Toro
Volatiles - Data Qualification Summary - SDG 00A073

SDG	Sample	Compound	Flag	A or P	Reason
00A073	18609-2671 18609-2672 18609-2673 18609-2674** 18609-2675 18609-2676 18609-2677 18609-2678 18609-2679 18609-2680	Acetone	J	A	Continuing calibration (RRF)

MCAS El Toro
Volatiles - Laboratory Blank Data Qualification Summary - SDG 00A073

SDG	Sample	Compound TIC (RT in minutes)	Modified Final Concentration	A or P
00A073	18609-2672	Methylene chloride	2700U ug/Kg	A
00A073	18609-2673	Methylene chloride	2700U ug/Kg	A
00A073	18609-2674**	Methylene chloride	2800U ug/Kg	A
00A073	18609-2675	Methylene chloride	3100U ug/Kg	A
00A073	18609-2677	Methylene chloride	2800U ug/Kg	A
00A073	18609-2678	Methylene chloride	3000U ug/Kg	A
00A073	18609-2680	Methylene chloride	2900U ug/Kg	A
00A073	18609-2676	Methylene chloride	2600U ug/Kg	A

LDC Report# 4539J8

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: MCAS El Toro

Collection Date: January 20, 2000

LDC Report Date: February 29, 2000

Matrix: Soil/Water

Parameters: Total Petroleum Hydrocarbons as Extractables

Validation Level: NFESC Level C & D

Laboratory: EMAX Laboratories, Inc.

Sample Delivery Group (SDG): 00A084

Sample Identification

18609-2682
18609-2683
18609-2684**
18609-2685
18609-2686
18609-2687
18609-2688

**Indicates sample underwent NFESC Level D review

Introduction

This data review covers 6 soil samples and one water sample 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 (February 1994) 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.

Samples indicated by a double asterisk on the front cover underwent a NFESC Level D review. A NFESC Level C review was performed on all of the other samples. Raw data were not evaluated for the samples reviewed by Level C criteria since this review is 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. Surrogate recoveries (%R) were not within QC limits for several samples. Since the samples were diluted out, no data were qualified.

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

All target compound identifications were within validation criteria for samples on which a NFESC Level D review was performed. Raw data were not evaluated for the samples reviewed by Level C criteria.

VI. Compound Quantitation and CRQLs

All compound quantitation and CRQLs were within validation criteria for samples on which a NFESC Level D review was performed. Raw data were not evaluated for the samples reviewed by Level C criteria.

VII. System Performance

The system performance was within validation criteria for samples on which a NFESC Level D review was performed. Raw data were not evaluated for the samples reviewed by Level C criteria.

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 18609-2688 was identified as an equipment rinsate. No total petroleum hydrocarbons as extractable contaminants were found in this blank.

MCAS El Toro
Total Petroleum Hydrocarbons as Extractables - Data Qualification Summary - SDG 00A084

No Sample Data Qualified in this SDG

MCAS El Toro
Total Petroleum Hydrocarbons as Extractables - Laboratory Blank Data Qualification Summary - SDG 00A084

No Sample Data Qualified in this SDG

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: MCAS El Toro

Collection Date: January 20, 2000

LDC Report Date: February 29, 2000

Matrix: Soil/Water

Parameters: Total Petroleum Hydrocarbons as Gasoline

Validation Level: NFESC Level C & D

Laboratory: EMAX Laboratories, Inc.

Sample Delivery Group (SDG): 00A084

Sample Identification

18609-2682
18609-2683
18609-2684**
18609-2685
18609-2686
18609-2687
18609-2688

**Indicates sample underwent NFESC Level D review

Introduction

This data review covers 6 soil samples and one water sample 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 (February 1994) 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.

Samples indicated by a double asterisk on the front cover underwent a NFESC Level D review. A NFESC Level C review was performed on all of the other samples. Raw data were not evaluated for the samples reviewed by Level C criteria since this review is 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

All target compound identifications were within validation criteria for samples on which a NFESC Level D review was performed. Raw data were not evaluated for the samples reviewed by Level C criteria.

VI. Compound Quantitation and CRQLs

All compound quantitation and CRQLs were within validation criteria for samples on which a NFESC Level D review was performed. Raw data were not evaluated for the samples reviewed by Level C criteria.

VII. System Performance

The system performance was within validation criteria for samples on which a NFESC Level D review was performed. Raw data were not evaluated for the samples reviewed by Level C criteria.

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 18609-2688 was identified as an equipment rinsate. No total petroleum hydrocarbons as gasoline contaminants were found in this blank.

MCAS El Toro
Total Petroleum Hydrocarbons as Gasoline - Data Qualification Summary - SDG 00A084

No Sample Data Qualified in this SDG

MCAS El Toro
Total Petroleum Hydrocarbons as Gasoline - Laboratory Blank Data Qualification Summary - SDG 00A084

No Sample Data Qualified in this SDG

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: MCAS El Toro

Collection Date: January 20, 2000

LDC Report Date: February 24, 2000

Matrix: Soil/Water

Parameters: Volatiles

Validation Level: NFESC Level C & D

Laboratory: EMAX Laboratories, Inc.

Sample Delivery Group (SDG): 00A084

Sample Identification

18609-2681
18609-2682
18609-2683
18609-2684**
18609-2685
18609-2686
18609-2687
18609-2688

**Indicates sample underwent NFESC Level D review

Introduction

This data review covers 6 soil samples and 2 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 (February 1994) 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.

Samples indicated by a double asterisk on the front cover underwent a NFESC Level D review. A NFESC Level C review was performed on all of the other samples. Raw data were not evaluated for the samples reviewed by Level C criteria since this review is 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 semivolatile target compounds and system monitoring compounds were greater than or equal to 0.05 as required.

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 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 with the following exceptions:

LCS ID (Associated Samples)	Compound	LCS %R (Limits)	LCSD %R (Limits)	RPD (Limits)	Flag	A or P
V0B0401L/C (18609-2681 MBLK1W)	Trichloroethene	143 (71-125)	-	24 (≤20)	J	P

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

All target compound identifications were within validation criteria for samples on which a NFESC Level D review was performed. Raw data were not evaluated for the samples reviewed by Level C criteria.

XII. Compound Quantitation and CRQLs

All compound quantitation and CRQLs were within validation criteria for samples on which a NFESC Level D review was performed. Raw data were not evaluated for the samples reviewed by Level C criteria.

XIII. Tentatively Identified Compounds (TICs)

Tentatively identified compounds were not reported by the laboratory.

XIV. System Performance

The system performance was within validation criteria for samples on which a NFESC Level D review was performed. Raw data were not evaluated for the samples reviewed by Level C criteria.

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 18609-2688 was identified as an equipment rinsate. No volatile contaminants were found in this blank.

Sample 18609-2681 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)
18609-2681	Methylene chloride	1.9

MCAS El Toro
Volatiles - Data Qualification Summary - SDG 00A084

SDG	Sample	Compound	Flag	A or P	Reason
00A084	18609-2681	Trichloroethene	J	P	Laboratory control samples (%R)(RPD)

MCAS El Toro
Volatiles - Laboratory Blank Data Qualification Summary - SDG 00A084

No Sample Data Qualified in this SDG

LDC Report# 5170A8

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: MCAS El Toro

Collection Date: July 31, 2000

LDC Report Date: August 14, 2000

Matrix: Soil/Water

Parameters: Total Petroleum Hydrocarbons as Extractables

Validation Level: NFESC Level C & D

Laboratory: EMAX Laboratories, Inc.

Sample Delivery Group (SDG): 00G216

Sample Identification

18609-3344
18609-3345
18609-3346
18609-3347
18609-3348**
18609-3349
18609-3350
18609-3351
18609-3352
18609-3353
18609-3354
18609-3355
18609-3356**
18609-3357
18609-3358
18609-3359
18609-3360
18609-3361
18609-3350MS
18609-3350MSD

**Indicates sample underwent NFESC Level D review

Introduction

This data review covers 19 soil samples and one water sample 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.

Samples indicated by a double asterisk on the front cover underwent NFESC Level D review. NFESC Level C review was performed on all of the other samples. Raw data were not evaluated for the samples reviewed by NFESC Level C criteria since this review is 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. Surrogate recoveries (%R) were not within QC limits for samples 18609-3348** and 18609-3356**. Since these samples were diluted out, no data were qualified.

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

All target compound identifications were within validation criteria for samples on which NFESC Level D review was performed. Raw data were not evaluated for the samples reviewed by NFESC Level C criteria.

VI. Compound Quantitation and CRQLs

All compound quantitation and CRQLs were within validation criteria for samples on which NFESC Level D review was performed. Raw data were not evaluated for the samples reviewed by NFESC Level C criteria.

VII. System Performance

The system performance was within validation criteria for samples on which NFESC Level D review was performed. Raw data were not evaluated for the samples reviewed by NFESC Level C criteria.

VIII. Overall Assessment of Data

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

IX. Field Duplicates

Samples 18609-3347 and 18609-3348** and samples 18609-3355 and 18609-3356** were identified as field duplicates. No total petroleum hydrocarbons as extractables were detected in any of the samples with the following exceptions:

Compound	Concentration (mg/Kg)		RPD
	18609-3347	18609-3348**	
TPH as JP-5	4500	8000	56

Compound	Concentration (mg/Kg)		RPD
	18609-3355	18609-3356**	
TPH as JP-5	910	6400	150

X. Field Blanks

Sample 18609-3361 was identified as an equipment rinsate. No total petroleum hydrocarbons as extractable contaminants were found in this blank.

MCAS El Toro
Total Petroleum Hydrocarbons as Extractables - Data Qualification Summary - SDG 00G216

No Sample Data Qualified in this SDG

MCAS El Toro
Total Petroleum Hydrocarbons as Extractables - Laboratory Blank Data Qualification Summary - SDG 00G216

No Sample Data Qualified in this SDG

LDC Report# 5170A7

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: MCAS El Toro

Collection Date: July 31, 2000

LDC Report Date: August 14, 2000

Matrix: Soil/Water

Parameters: Total Petroleum Hydrocarbons as Gasoline

Validation Level: NFESC Level C & D

Laboratory: EMAX Laboratories, Inc.

Sample Delivery Group (SDG): 00G216

Sample Identification

18609-3344
18609-3345
18609-3346
18609-3347
18609-3348**
18609-3349
18609-3350
18609-3351
18609-3352
18609-3353
18609-3354
18609-3355
18609-3356**
18609-3357
18609-3358
18609-3359
18609-3360
18609-3361
18609-3350MS
18609-3350MSD

**Indicates sample underwent NFESC Level D review

Introduction

This data review covers 19 soil samples and one water sample 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.

Samples indicated by a double asterisk on the front cover underwent NFESC Level D review. NFESC Level C review was performed on all of the other samples. Raw data were not evaluated for the samples reviewed by NFESC Level C criteria since this review is 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

All target compound identifications were within validation criteria for samples on which NFESC Level D review was performed. Raw data were not evaluated for the samples reviewed by NFESC Level C criteria.

VI. Compound Quantitation and CRQLs

All compound quantitation and CRQLs were within validation criteria for samples on which NFESC Level D review was performed. Raw data were not evaluated for the samples reviewed by NFESC Level C criteria.

VII. System Performance

The system performance was within validation criteria for samples on which NFESC Level D review was performed. Raw data were not evaluated for the samples reviewed by NFESC Level C criteria.

VIII. Overall Assessment of Data

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

IX. Field Duplicates

Samples 18609-3347 and 18609-3348** and samples 18609-3355 and 18609-3356** were identified as field duplicates. No total petroleum hydrocarbons as gasoline were detected in any of the samples with the following exceptions:

Compound	Concentration (mg/Kg)		RPD
	18609-3347	18609-3348**	
TPH as gasoline	5600	8500	41

Compound	Concentration (mg/Kg)		RPD
	18609-3355	18609-3356**	
TPH as gasoline	2000	7600	117

X. Field Blanks

Sample 18609-3361 was identified as an equipment rinsate. No total petroleum hydrocarbons as gasoline contaminants were found in this blank.

MCAS El Toro
Total Petroleum Hydrocarbons as Gasoline - Data Qualification Summary - SDG 00G216

No Sample Data Qualified in this SDG

MCAS El Toro
Total Petroleum Hydrocarbons as Gasoline - Laboratory Blank Data Qualification Summary - SDG 00G216

No Sample Data Qualified in this SDG

LDC Report# 5170A1

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: MCAS El Toro

Collection Date: July 31, 2000

LDC Report Date: August 11, 2000

Matrix: Water/Soil

Parameters: Volatiles

Validation Level: NFESC Level C & D

Laboratory: EMAX Laboratories, Inc.

Sample Delivery Group (SDG): 00G216

Sample Identification

18609-3343	18609-3349MSD
18609-3344	
18609-3345	
18609-3346	
18609-3347	
18609-3348**	
18609-3349	
18609-3350	
18609-3351	
18609-3352	
18609-3353	
18609-3354	
18609-3355	
18609-3356**	
18609-3357	
18609-3358	
18609-3359	
18609-3360	
18609-3361	
18609-3349MS	

**Indicates sample underwent NFESC Level D review

Introduction

This data review covers 19 soil samples and 2 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.

Samples indicated by a double asterisk on the front cover underwent a NFESC Level D review. A NFESC Level C review was performed on all of the other samples. Raw data were not evaluated for the samples reviewed by Level C criteria since this review is 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

All target compound identifications were within validation criteria for samples on which a NFESC Level D review was performed. Raw data were not evaluated for the samples reviewed by Level C criteria.

XII. Compound Quantitation and CRQLs

All compound quantitation and CRQLs were within validation criteria for samples on which a NFESC Level D review was performed. Raw data were not evaluated for the samples reviewed by NFESC Level C criteria.

XIII. Tentatively Identified Compounds (TICs)

Tentatively identified compounds were not reported by the laboratory.

XIV. System Performance

The system performance was within validation criteria for samples on which a NFESC Level D review was performed. Raw data were not evaluated for the samples reviewed by Level C criteria.

XV. Overall Assessment of Data

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

XVI. Field Duplicates

Samples 18609-3347 and 18609-3348** and samples 18609-3355 and 18609-3356** were identified as field duplicates. No volatiles were detected in any of the samples with the following exceptions:

Compound	Concentration (ug/L)		RPD
	18609-3347	18609-3348**	
Ethylbenzene	770	4800	133
Xylene, total	3400U	2600	200

Compound	Concentration (ug/L)		RPD
	18609-3355	18609-3356**	
Ethylbenzene	3500U	390	200

XVII. Field Blanks

Sample 18609-3343 was identified as a trip blank. No volatile contaminants were found in this blank.

Sample 18609-3361 was identified as an equipment rinsate. No volatile contaminants were found in this blank.

MCAS El Toro
Volatiles - Data Qualification Summary - SDG 00G216

No Sample Data Qualified in this SDG

MCAS El Toro
Volatiles - Laboratory Blank Data Qualification Summary - SDG 00G216

No Sample Data Qualified in this SDG

LDC Report# 5170B8

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: MCAS El Toro

Collection Date: August 1, 2000

LDC Report Date: August 14, 2000

Matrix: Soil

Parameters: Total Petroleum Hydrocarbons as Extractables

Validation Level: NFESC Level C & D

Laboratory: EMAX Laboratories, Inc.

Sample Delivery Group (SDG): 00H011

Sample Identification

18609-3363
18609-3364
18609-3365
18609-3366**
18609-3367
18609-3368
18609-3369
18609-3370
18609-3371
18609-3372
18609-3373
18609-3374
18609-3375
18609-3377
18609-3378
18609-3379
18609-3380
18609-3368MS
18609-3368MSD

**Indicates sample underwent NFESC Level D review

Introduction

This data review covers 19 soil 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.

Samples indicated by a double asterisk on the front cover underwent NFESC Level D review. NFESC Level C review was performed on all of the other samples. Raw data were not evaluated for the samples reviewed by NFESC Level C criteria since this review is 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. Surrogate recoveries (%R) were not within QC limits for sample 18609-3367. Since the sample was diluted out, no data were qualified.

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

All target compound identifications were within validation criteria for samples on which NFESC Level D review was performed. Raw data were not evaluated for the samples reviewed by NFESC Level C criteria.

VI. Compound Quantitation and CRQLs

All compound quantitation and CRQLs were within validation criteria for samples on which NFESC Level D review was performed. Raw data were not evaluated for the samples reviewed by NFESC Level C criteria.

VII. System Performance

The system performance was within validation criteria for samples on which NFESC Level D review was performed. Raw data were not evaluated for the samples reviewed by NFESC Level C criteria.

VIII. Overall Assessment of Data

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

IX. Field Duplicates

Samples 18609-3365 and 18609-3366** were identified as field duplicates. No total petroleum hydrocarbons as extractables were detected in any of the samples with the following exceptions:

Compound	Concentration (mg/Kg)		RPD
	18609-3365	18609-3366**	
TPH as JP-5	3300	3600	9

X. Field Blanks

No field blanks were identified in this SDG.

MCAS El Toro
Total Petroleum Hydrocarbons as Extractables - Data Qualification Summary - SDG 00H011

No Sample Data Qualified in this SDG

MCAS El Toro
Total Petroleum Hydrocarbons as Extractables - Laboratory Blank Data Qualification Summary - SDG 00H011

No Sample Data Qualified in this SDG

LDC Report# 5170B7

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: MCAS El Toro

Collection Date: August 1, 2000

LDC Report Date: August 14, 2000

Matrix: Soil

Parameters: Total Petroleum Hydrocarbons as Gasoline

Validation Level: NFESC Level C & D

Laboratory: EMAX Laboratories, Inc.

Sample Delivery Group (SDG): 00H011

Sample Identification

18609-3363
18609-3364
18609-3365
18609-3366**
18609-3367
18609-3368
18609-3369
18609-3370
18609-3371
18609-3372
18609-3373
18609-3374
18609-3375
18609-3377
18609-3378
18609-3379
18609-3380
18609-3374MS
18609-3374MSD

**Indicates sample underwent NFESC Level D review

Introduction

This data review covers 19 soil 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.

Samples indicated by a double asterisk on the front cover underwent NFESC Level D review. NFESC Level C review was performed on all of the other samples. Raw data were not evaluated for the samples reviewed by NFESC Level C criteria since this review is 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

All target compound identifications were within validation criteria for samples on which NFESC Level D review was performed. Raw data were not evaluated for the samples reviewed by NFESC Level C criteria.

VI. Compound Quantitation and CRQLs

All compound quantitation and CRQLs were within validation criteria for samples on which NFESC Level D review was performed. Raw data were not evaluated for the samples reviewed by NFESC Level C criteria.

VII. System Performance

The system performance was within validation criteria for samples on which NFESC Level D review was performed. Raw data were not evaluated for the samples reviewed by NFESC Level C criteria.

VIII. Overall Assessment of Data

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

IX. Field Duplicates

Samples 18609-3365 and 18609-3366** were identified as field duplicates. No total petroleum hydrocarbons as gasoline were detected in any of the samples with the following exceptions:

Compound	Concentration (mg/Kg)		RPD
	18609-3365	18609-3366**	
TPH as gasoline	3200	3400	6

X. Field Blanks

No field blanks were identified in this SDG.

MCAS El Toro
Total Petroleum Hydrocarbons as Gasoline - Data Qualification Summary - SDG 00H011

No Sample Data Qualified in this SDG

MCAS El Toro
Total Petroleum Hydrocarbons as Gasoline - Laboratory Blank Data Qualification Summary - SDG 00H011

No Sample Data Qualified in this SDG

LDC Report# 5170B1

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: MCAS El Toro

Collection Date: August 1, 2000

LDC Report Date: August 11, 2000

Matrix: Water/Soil

Parameters: Volatiles

Validation Level: NFESC Level C & D

Laboratory: EMAX Laboratories, Inc.

Sample Delivery Group (SDG): 00H011

Sample Identification

18609-3362
18609-3363
18609-3364
18609-3365
18609-3366**
18609-3367
18609-3368
18609-3369
18609-3370
18609-3371
18609-3372
18609-3373
18609-3374
18609-3375
18609-3377
18609-3378
18609-3379
18609-3380

**Indicates sample underwent NFESC Level D review

Introduction

This data review covers 17 soil samples and one water sample 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.

Samples indicated by a double asterisk on the front cover underwent a NFESC Level D review. A NFESC Level C review was performed on all of the other samples. Raw data were not evaluated for the samples reviewed by Level C criteria since this review is 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 with the following exceptions:

Sample	Surrogate	%R (Limits)	Compound	Flag	A or P
MBLK1W	Bromofluorobenzene	67 (75-125)	All TCL compounds	J (all detects) UJ (all non-detects)	P

Sample	Surrogate	%R (Limits)	Compound	Flag	A or P
18609-3366**	Bromofluorobenzene	64 (75-125)	All TCL compounds	J (all detects) UJ (all non-detects)	P
18609-3367	Bromofluorobenzene	60 (75-125)	All TCL compounds	J (all detects) UJ (all non-detects)	P

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 with the following exceptions:

Sample	Internal Standards	Area (Limits)	Compound	Flag	A or P
18609-3372	1,2-Dichlorobenzene-d4	303545 (377594-1510374)	1,1,2,2-Tetrachloroethane Bromoform	J (all detects) UJ (all non-detects)	P
18609-3378	1,2-Dichlorobenzene-d4	347953 (377594-1510374)	1,1,2,2-Tetrachloroethane Bromoform	J (all detects) UJ (all non-detects)	P
18609-3364	1,2-Dichlorobenzene-d4	292536 (377594-1510374)	1,1,2,2-Tetrachloroethane Bromoform	J (all detects) UJ (all non-detects)	P

Sample	Internal Standards	Area (Limits)	Compound	Flag	A or P
18609-3363	Chlorobenzene-d5 1,2-Dichlorobenzene-d4	709355 (892124-3568494) 174659 (377594-1510374)	1,1,2,2-Tetrachloroethane Bromoform 1,1,2-Trichloroethane 1,2-Dichloroethane 1,2-Dichloropropane 2-Chloroethylvinylether 2-Hexanone 4-Methyl-2-pentanone Benzene Bromodichloromethane Carbon tetrachloride Chlorobenzene cis-1,3-Dichloropropene Dibromochloromethane Ethylbenzene Styrene Tetrachloroethene Toluene trans-1,3-Dichloropropene Trichloroethene Xylenes (total)	J (all detects) UJ (all non-detects)	P

XI. Target Compound Identifications

All target compound identifications were within validation criteria for samples on which a NFESC Level D review was performed. Raw data were not evaluated for the samples reviewed by Level C criteria.

XII. Compound Quantitation and CRQLs

All compound quantitation and CRQLs were within validation criteria for samples on which a NFESC Level D review was performed. Raw data were not evaluated for the samples reviewed by NFESC Level C criteria.

XIII. Tentatively Identified Compounds (TICs)

Tentatively identified compounds were not reported by the laboratory.

XIV. System Performance

The system performance was within validation criteria for samples on which a NFESC Level D review was performed. Raw data were not evaluated for the samples reviewed by Level C criteria.

XV. Overall Assessment of Data

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

XVI. Field Duplicates

Samples 18609-3365 and 18609-3366** were identified as field duplicates. No volatiles were detected in any of the samples with the following exceptions:

Compound	Concentration (ug/L)		RPD
	18609-3365	18609-3366**	
Chloroform	75	350U	200
Ethylbenzene	200	680	109

XVII. Field Blanks

Sample 18609-3362 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)
18609-3362	Acetone	15

MCAS El Toro
Volatiles - Data Qualification Summary - SDG 00H011

SDG	Sample	Compound	Flag	A or P	Reason
00H011	18609-3366** 18609-3367	All TCL compounds	J (all detects) UJ (all non-detects)	P	Surrogate recovery (%R)
00H011	18609-3372 18609-3378 18609-3364	1,1,2,2-Tetrachloroethane Bromoform	J (all detects) UJ (all non-detects) J (all detects) UJ (all non-detects)	P	Internal standards (area)
00H011	18609-3363	1,1,2,2-Tetrachloroethane Bromoform 1,1,2-Trichloroethane 1,2-Dichloroethane 1,2-Dichloropropane 2-Chloroethylvinylether 2-Hexanone 4-Methyl-2-pentanone Benzene Bromodichloromethane Carbon tetrachloride Chlorobenzene cis-1,3-Dichloropropene Dibromochloromethane Ethylbenzene Styrene Tetrachloroethene Toluene trans-1,3-Dichloropropene Trichloroethene Xylenes (total)	J (all detects) UJ (all non-detects)	P	Internal standards (area)

MCAS El Toro
Volatiles - Laboratory Blank Data Qualification Summary - SDG 00H011

No Sample Data Qualified in this SDG